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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 October 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	2,724	2,339	152	2,187	5	22	687	12	2,914
February	2,493	2,143	139	2,003	5	1	292	39	2,341
March	2,797	2,426	158	2,268	5	7	281	-39	2,524
April	2,690	2,350	153	2,198	5	-4	-236	-30	1,932
May	2,779	2,429	158	2,271	5	-5	-348	-32	1,892
June	2,688	2,373	154	2,219	5	-14	-287	-13	1,911
July	2,754	2,478	161	2,317	6	2	-155	-27	2,142
August	2,770	2,476	161	2,315	6	1	-201	-26	2,094
September	2,763	2,438	158	2,280	5	-19	-323	-22	1,921
October	2,911	2,564	167	2,398	6	-38	-254	-79	2,032
November	2,897	2,559	166	2,393	6	-47	90	-84	2,358
December	3,025	2,628	171	2,458	6	-26	707	-60	3,084
Total	33,292	29,204	1,897	27,306	66	-121	254	-360	27,146
2018									
January	2,986	2,612	178	2,435	6	*	913	-18	3,335
February	2,746	2,410	164	2,246	5	-38	477	16	2,706
March	3,085	2,721	185	2,535	6	-21	292	-20	2,793
April	2,979	2,617	178	2,439	6	-37	-37	-24	2,346
May	3,097	2,730	186	2,544	6	-45	-433	-20	2,051
June	2,961	2,645	180	2,465	6	-34	-358	-21	2,059
July	3,097	2,759	188	2,571	6	-59	-194	21	2,345
August	3,165	2,815	192	2,623	6	-74	-244	-3	2,308
September	3,142	2,797	190	2,607	6	-88	-344	-29	2,152
October	3,270	2,895	197	2,698	6	-92	-299	-34	2,279
November	3,235	2,870	195	2,675	6	-125	212	-57	2,710
December	3,365	2,952	201	2,751	6	-106	329	14	2,993
Total	37,129	32,823	2,235	30,589	69	-719	312	-176	30,075
2019									
January	£3,357	£2,952	205	£2,747	5	-74	709	13	3,400
February	£3,051	£2,694	191	£2,504	6	-97	568	18	2,999
March	£3,387	£3,001	213	£2,788	6	-121	245	-19	2,900
April	£3,307	£2,920	208	£2,712	5	-132	-382	-3	2,201
May	£3,392	£3,004	216	£2,788	4	-161	-472	-37	2,121
June	£3,299	£2,943	208	£2,736	6	-159	-431	-36	2,115
July	£3,384	£3,040	£210	£2,830	5	-163	-254	R-10	2,408
August	RE3,445	RE3,105	R213	RE2,893	5	-165	-286	R-10	2,437
September	RE3,395	RE3,041	215	RE2,826	4	-186	-419	R-9	2,216
October	£3,558	£3,176	224	£2,952	5	-214	-346	-70	2,327
2019 10-Month	£33,575	£29,877	2,102	£27,775	51	-1,471	-1,068	-163	25,124
2018 10-Month	30,529	27,001	1,838	25,163	57	-487	-228	-133	24,372
2017 10-Month	27,370	24,016	1,560	22,456	54	-48	-543	-215	21,704

^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 2018 include underground storage and liquefied natural gas storage. Data for January 2019 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): -4 for 2018; 12 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.

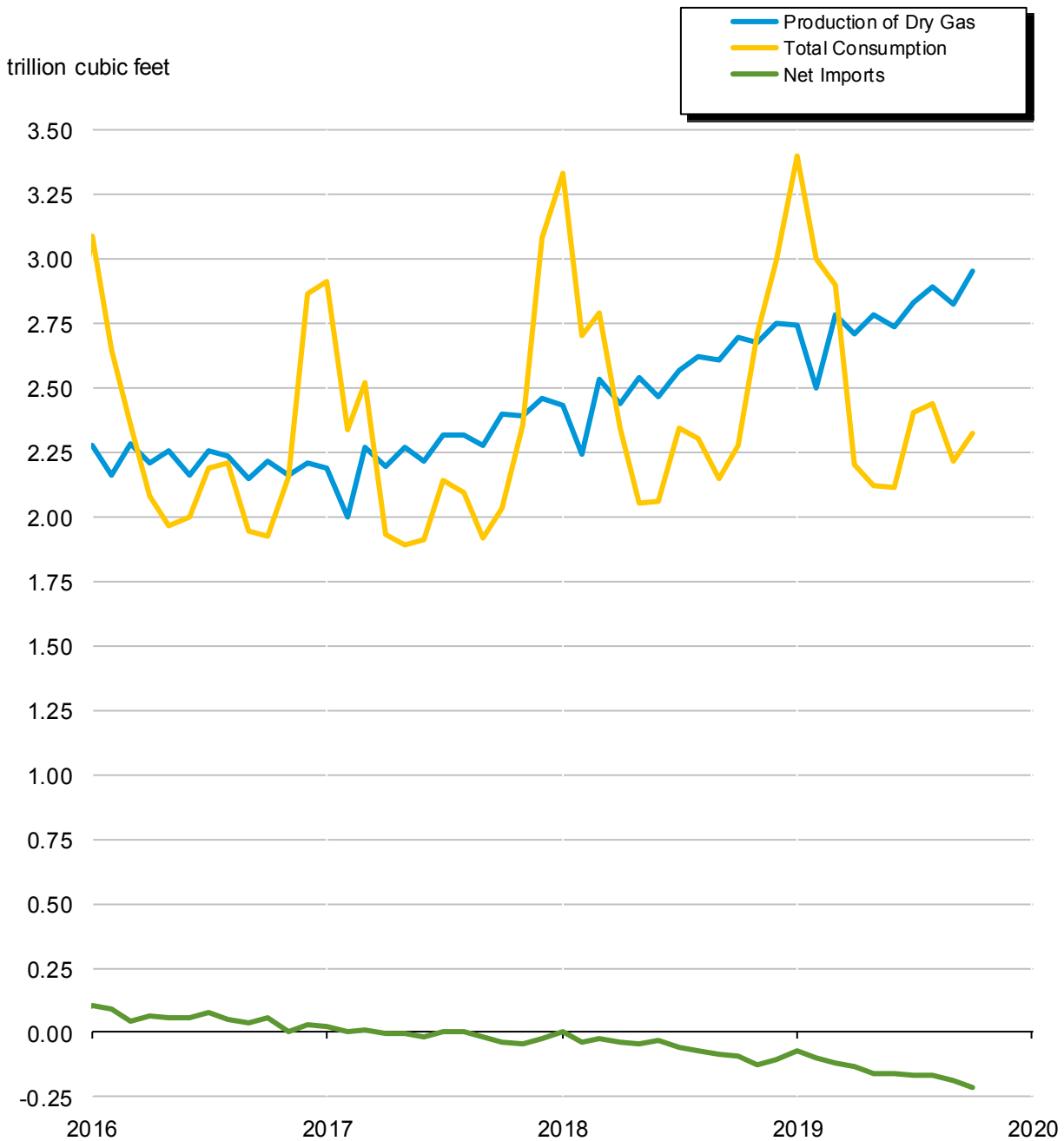
^{RE} Revised estimated data.

Notes: Monthly vehicle fuel estimates for 2017 and 2018 have been revised. This correction also affects the balancing item and total consumption for the applicable months. No annual numbers were affected. Data for 2014 through 2017 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: 2014-2018: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2018*. January 2019 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: 2016-2018: Energy Information Administration (EIA), *Natural Gas Annual 2018*. January 2019 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	127	79	831	479	735	660	4	2,709	2,914	1,039
February	116	63	579	359	650	569	4	2,162	2,341	1,038
March	132	68	580	372	697	672	4	2,325	2,524	1,037
April	127	51	279	212	632	627	4	1,754	1,932	1,036
May	132	50	199	178	629	700	4	1,711	1,892	1,035
June	129	50	124	138	615	851	4	1,732	1,911	1,035
July	134	57	107	134	624	1,082	4	1,951	2,142	1,035
August	134	55	104	137	637	1,022	4	1,905	2,094	1,035
September	132	51	114	145	616	859	4	1,738	1,921	1,036
October	139	53	205	201	657	773	4	1,839	2,032	1,035
November	139	63	468	322	696	666	4	2,156	2,358	1,037
December	143	83	822	487	761	785	4	2,859	3,084	1,039
Total	1,584	722	4,412	3,164	7,949	9,266	48	24,840	27,146	1,036
2018										
January	134	97	981	554	778	786	4	3,104	3,335	1,038
February	124	78	690	424	696	690	4	2,504	2,706	1,037
March	140	81	659	418	734	757	4	2,572	2,793	1,037
April	134	67	441	302	694	704	4	2,145	2,346	1,035
May	140	58	169	164	668	848	4	1,853	2,051	1,034
June	136	58	119	142	646	953	4	1,864	2,059	1,035
July	142	67	106	138	665	1,224	4	2,136	2,345	1,035
August	144	66	100	143	665	1,186	4	2,098	2,308	1,034
September	144	61	112	147	654	1,030	4	1,947	2,152	1,035
October	149	65	255	237	681	888	4	2,066	2,279	1,036
November	147	78	599	386	732	763	4	2,485	2,710	1,037
December	151	86	765	459	764	762	4	2,755	2,993	1,038
Total	1,684	863	4,996	3,515	8,377	10,589	50	27,528	30,075	1,036
2019										
January	£151	£98	952	557	797	841	£4	3,151	3,400	1,038
February	£138	£86	805	474	716	777	£4	2,775	2,999	1,037
March	£154	£83	686	427	747	798	£4	2,663	2,900	1,037
April	£150	£63	328	249	672	736	£4	1,988	2,201	1,037
May	£154	£61	212	186	673	831	£4	1,906	2,121	1,035
June	£151	£61	129	145	633	993	£4	1,904	2,115	1,035
July	£156	£69	113	144	647	1,274	£4	2,182	2,408	1,037
August	£159	£70	102	142	671	1,288	£5	2,208	2,437	1,038
September	£156	£64	110	145	642	1,095	£4	1,996	2,216	1,037
October	£163	£67	233	218	682	960	£5	2,097	2,327	1,036
2019 10-Month YTD	£1,533	£721	3,669	2,685	6,881	9,593	£42	22,870	25,124	1,037
2018 10-Month YTD	1,385	699	3,632	2,669	6,881	9,064	42	22,288	24,372	1,036
2017 10-Month YTD	1,303	576	3,123	2,355	6,492	7,814	40	19,825	21,704	1,036

^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.

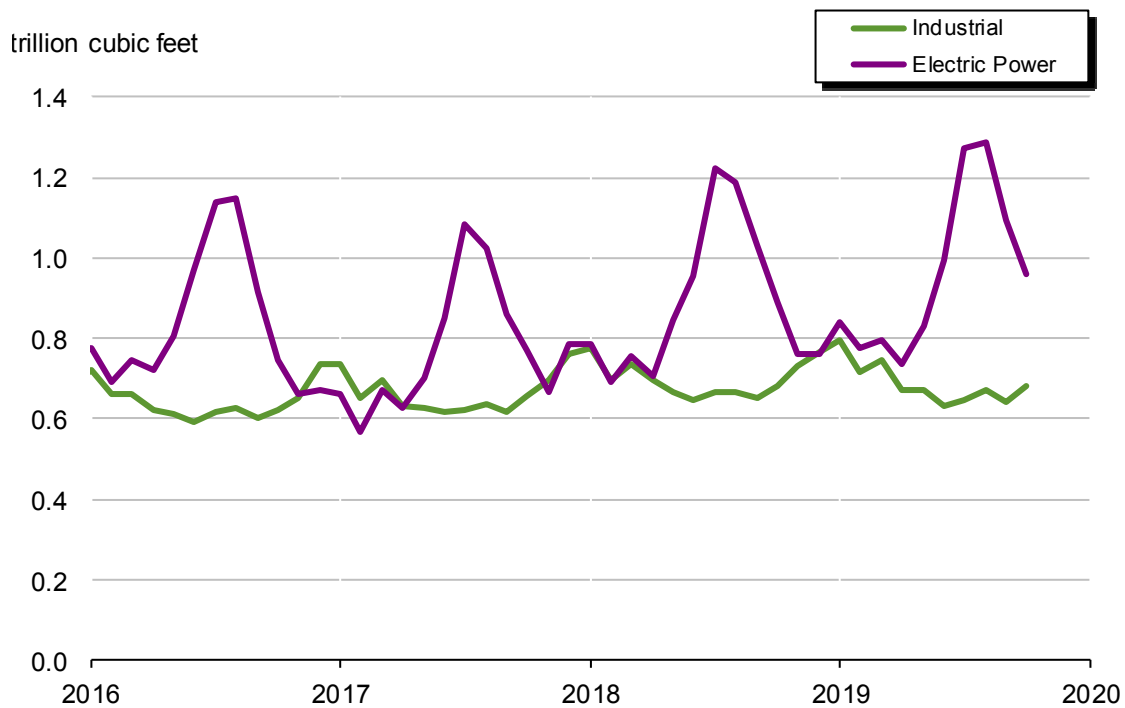
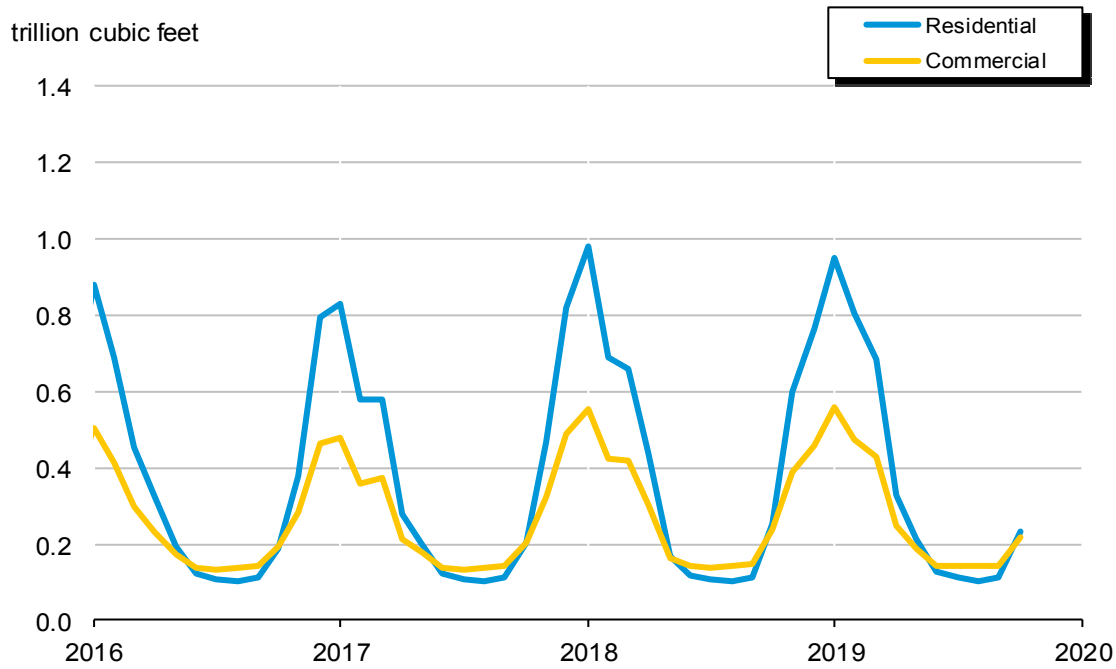
^e Estimated data.

Notes: Monthly vehicle fuel estimates for 2017 and 2018 have been revised. This correction also affects the balancing item and total consumption for the applicable months. No annual numbers were affected. Data for 2014 through 2017 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: 2014-2018: 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 2018*. January 2019 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: 2016-2018: 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 2018*. January 2019 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	4.85	15.2	4.31
February	7.24	2.85	4.13	10.01	95.8	7.89	69.0	4.53	15.2	3.72
March	5.91	2.88	3.84	9.86	95.7	7.68	67.7	3.92	15.1	3.51
April	6.25	3.10	4.20	11.34	95.7	8.04	65.0	4.11	14.7	3.50
May	6.14	3.15	4.42	13.25	95.5	8.31	60.8	4.02	14.2	3.61
June	5.73	2.97	4.82	16.06	95.6	8.75	58.2	4.05	14.8	3.40
July	6.27	2.98	4.73	17.86	95.8	8.81	57.2	3.92	14.8	3.32
August	7.01	2.90	4.61	18.22	95.6	8.76	55.9	3.78	14.4	3.24
September	7.80	2.98	4.52	16.92	96.1	8.52	56.2	3.83	13.9	3.27
October	7.84	2.88	4.03	13.39	96.4	7.97	61.5	3.78	14.4	3.24
November	8.03	3.01	3.97	10.14	96.1	7.51	65.8	3.84	14.8	3.50
December	7.82	2.82	4.00	9.29	96.5	7.42	69.1	4.19	15.2	3.81
Annual Average	6.92	2.99	4.16	10.91	95.9	7.88	65.4	4.08	14.8	3.51
2018										
January	7.91	3.87	4.36	8.90	96.1	7.39	71.4	4.48	15.0	5.38
February	7.43	2.67	3.99	9.63	96.0	7.74	69.2	4.87	14.6	3.75
March	7.17	2.69	3.69	9.76	95.9	7.71	68.5	4.02	15.1	3.32
April	7.49	2.80	3.65	10.05	95.6	7.65	65.4	3.91	14.8	3.26
May	8.40	2.80	4.14	13.52	94.8	8.34	60.0	3.81	13.9	3.16
June	8.57	2.97	4.49	16.47	95.7	8.58	57.7	3.78	13.8	3.23
July	8.99	2.83	4.50	17.84	95.8	8.84	56.3	3.77	13.6	3.35
August	9.18	2.96	5.25	18.56	95.6	8.69	55.1	3.68	13.9	3.39
September	10.46	3.00	4.72	17.23	96.2	8.57	56.8	3.76	13.8	3.23
October	9.11	3.28	4.10	12.23	96.5	7.69	61.2	4.04	14.1	3.52
November	6.97	4.09	4.28	9.41	96.4	7.34	66.6	4.52	14.2	4.34
December	6.38	4.04	4.72	9.61	96.2	7.70	69.0	5.48	14.3	4.89
Annual Average	8.20	3.15	4.23	10.50	96.0	7.78	65.8	4.21	14.3	3.68
2019										
January	6.46	3.11	4.04	9.45	96.3	7.70	70.4	5.03	13.6	4.16
February	6.60	2.69	3.85	9.47	96.1	7.58	69.6	4.64	14.0	3.79
March	6.58	2.95	4.01	9.49	96.0	7.44	69.4	4.32	13.6	3.59
April	6.09	2.65	3.68	10.94	95.6	7.76	64.5	4.00	12.9	2.99
May	5.61	2.64	3.65	12.88	95.7	8.08	61.1	3.64	12.5	2.85
June	4.50	2.40	4.05	15.72	95.6	8.22	58.9	3.55	12.3	2.67
July	4.62	2.37	4.16	17.94	95.9	8.45	56.4	3.34	12.9	2.62
August	4.48	2.22	4.20	18.58	96.0	8.41	56.0	3.20	12.2	2.50
September	5.04	2.56	4.13	17.81	96.2	8.33	56.6	3.35	12.1	2.68
October	5.11	2.33	3.40	12.62	96.8	7.63	60.5	3.43	11.9	2.58
2019 10-Month YTD	5.49	2.62	3.91	10.99	96.1	7.78	65.2	3.91	12.8	2.97
2018 10-Month YTD	8.52	2.98	4.13	10.83	95.9	7.86	65.1	4.03	14.3	3.52
2017 10-Month YTD	6.70	3.00	4.22	11.38	95.8	8.01	64.7	4.10	14.7	3.47

^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.

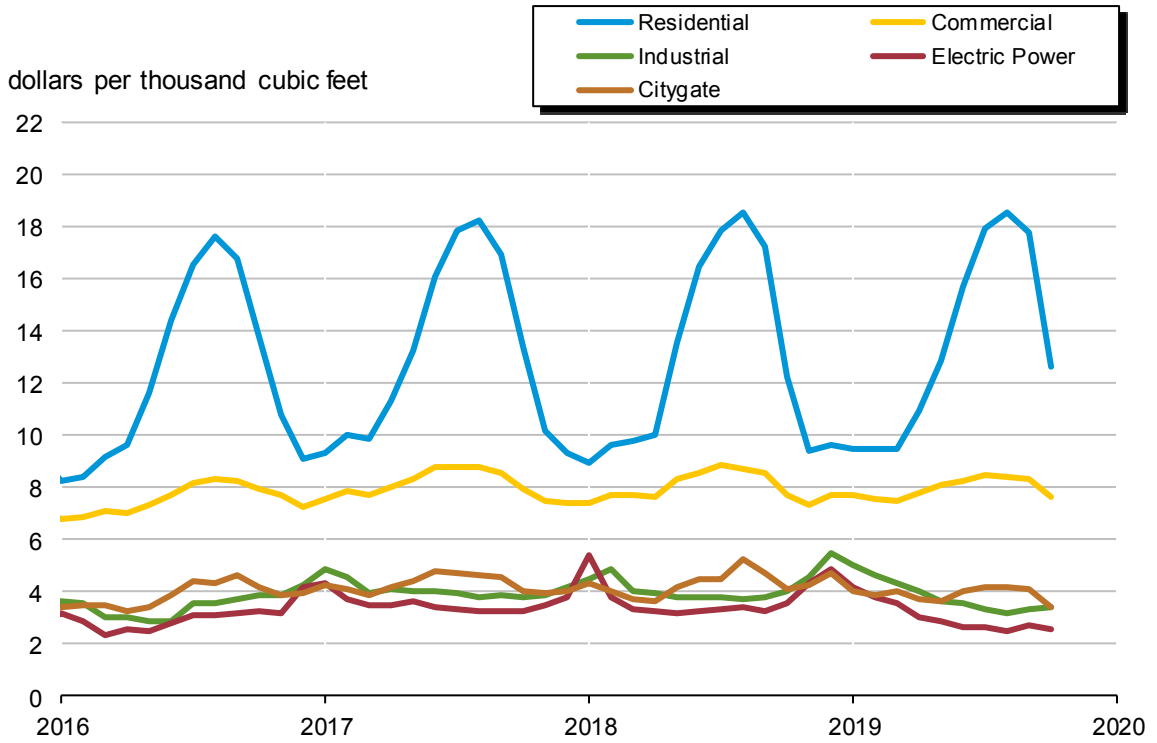
^R Revised data.

— Not applicable.

Notes: Prices are in nominal dollars. Data for 2014 through 2017 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: 2014-2018: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2018*. January 2019 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.

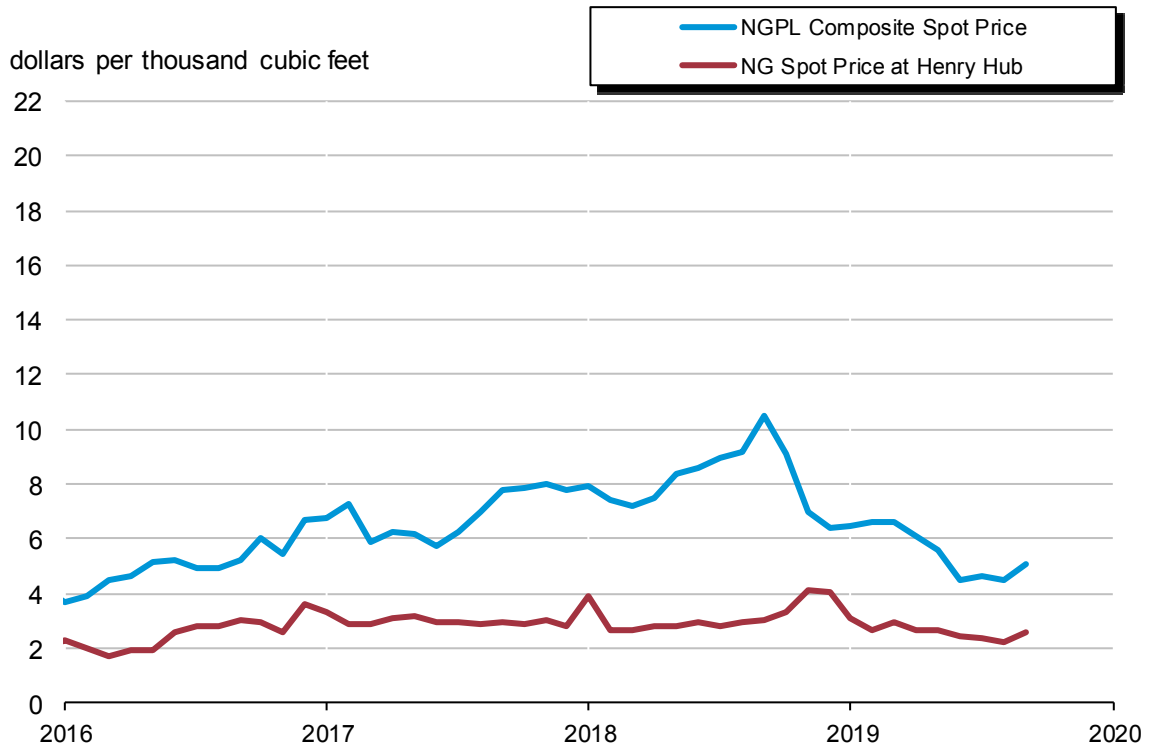
Figure 3. Average citygate and consumer prices of natural gas in the United States, 2016-2019



Note: Prices are in nominal dollars.

Sources: 2016-2018: Energy Information Administration (EIA), *Natural Gas Annual 2018*. January 2019 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: 2016-2018: Energy Information Administration (EIA), *Natural Gas Annual 2018*. January 2019 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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	2,221,131	2,356,866	2,456,615	204,908	208,201	217,054	227,488	201,069
Mexico	814	3,172	766	69	63	114	62	64
Total Pipeline Imports	2,221,945	2,360,037	2,457,381	204,977	208,264	217,167	227,550	201,133
LNG								
By Truck								
Canada	222	1,762	1,396	*	0	*	*	5
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	36,736	51,226	56,620	5,532	0	2,886	2,832	0
United Kingdom	0	3,119	0	0	0	0	0	0
Total LNG Imports	39,566	58,875	60,770	5,532	0	2,886	2,832	5
CNG								
Canada	313	299	284	28	22	23	26	26
Total CNG Imports	313	299	284	28	22	23	26	26
Total Imports	2,261,824	2,419,212	2,518,435	210,537	208,286	220,076	230,407	201,163
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.37	2.30	2.52	1.96	1.65	1.63	1.72	1.54
Mexico	2.98	4.36	2.66	2.28	2.09	2.24	2.29	2.08
Total Pipeline Imports	2.38	2.30	2.52	1.96	1.65	1.63	1.72	1.54
LNG								
By Truck								
Canada	7.14	8.55	8.69	6.33	--	6.00	6.33	8.44
By Vessel								
France	10.39	8.35	--	--	--	--	--	--
Nigeria	--	--	5.82	--	--	--	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	7.61	5.16	4.34	4.65	--	4.57	6.73	--
United Kingdom	--	13.26	--	--	--	--	--	--
Total LNG Imports	7.79	5.84	4.51	4.65	--	4.57	6.73	8.44
CNG								
Canada	3.07	3.61	2.99	2.48	0.36	0.61	0.68	0.85
Total CNG Imports	3.07	3.61	2.99	2.48	0.36	0.61	0.68	0.85
Total Imports	2.61	2.53	2.67	2.15	1.65	1.73	1.86	1.54
Net Imports - Volume	-1,471,479	-487,032	-47,504	-214,329	-186,480	R-164,907	-162,993	-159,063

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		
	May	April	March	February	January	Total	December	November
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	207,535	203,620	249,309	225,650	276,296	2,808,720	242,282	209,573
Mexico	78	65	133	100	67	3,316	66	79
Total Pipeline Imports	207,613	203,685	249,443	225,750	276,363	2,812,036	242,347	209,652
LNG								
By Truck								
Canada	9	31	44	56	78	1,885	53	70
By Vessel								
France	0	0	0	0	2,608	2,768	0	0
Nigeria	0	0	0	0	0	2,860	2,860	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	0	2,811	3,456	7,472	11,748	65,819	11,859	2,734
United Kingdom	0	0	0	0	0	3,119	0	0
Total LNG Imports	9	2,842	3,499	7,528	14,434	76,451	14,771	2,805
CNG								
Canada	29	32	47	39	42	359	30	30
Total CNG Imports	29	32	47	39	42	359	30	30
Total Imports	207,651	206,559	252,989	233,317	290,839	2,888,847	257,148	212,486
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	1.81	1.97	3.63	3.60	3.55	2.58	4.14	3.87
Mexico	1.89	2.40	4.06	5.29	3.55	4.34	4.87	2.98
Total Pipeline Imports	1.81	1.97	3.63	3.60	3.55	2.58	4.14	3.87
LNG								
By Truck								
Canada	7.66	7.20	7.07	7.06	7.08	8.51	7.20	8.44
By Vessel								
France	--	--	--	--	10.39	8.35	--	--
Nigeria	--	--	--	--	--	8.84	8.84	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	--	7.33	7.71	8.98	9.14	6.01	8.60	10.76
United Kingdom	--	--	--	--	--	13.26	--	--
Total LNG Imports	7.66	7.32	7.70	8.96	9.35	6.56	8.64	10.70
CNG								
Canada	0.94	1.57	3.48	6.48	8.08	3.89	8.23	2.22
Total CNG Imports	0.94	1.57	3.48	6.48	8.08	3.89	8.23	2.22
Total Imports	1.81	2.14	3.79	4.06	4.30	2.69	4.89	4.10
Net Imports - Volume	-160,918	-131,654	-120,550	-96,638	-73,948	-718,571	-106,310	-125,229

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

	October	September	August	July	June	May	April	2018 March
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	208,954	210,828	231,007	240,422	225,297	224,298	239,027	264,129
Mexico	69	68	522	960	240	190	68	119
Total Pipeline Imports	209,023	210,896	231,529	241,382	225,537	224,488	239,095	264,248
LNG								
By Truck								
Canada	379	194	242	226	216	224	196	54
By Vessel								
France	0	0	0	0	0	0	0	2,768
Nigeria	0	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	5,696	2,961	5,231	5,376	2,688	2,429	2,934	3,650
United Kingdom	0	0	0	0	0	0	0	0
Total LNG Imports	6,075	3,154	5,473	5,602	2,904	2,653	3,131	6,473
CNG								
Canada	30	24	23	28	28	27	39	42
Total CNG Imports	30	24	23	28	28	27	39	42
Total Imports	215,128	214,074	237,025	247,012	228,469	227,168	242,264	270,762
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.34	1.97	2.09	2.02	1.77	1.64	2.11	2.16
Mexico	2.43	3.13	5.49	5.32	2.63	2.22	2.10	2.65
Total Pipeline Imports	2.34	1.97	2.10	2.03	1.77	1.64	2.11	2.16
LNG								
By Truck								
Canada	9.64	8.36	8.32	8.32	8.18	8.27	8.30	7.94
By Vessel								
France	--	--	--	--	--	--	--	8.35
Nigeria	--	--	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	5.66	4.80	3.50	3.53	4.33	4.27	4.33	6.08
United Kingdom	--	--	--	--	--	--	--	--
Total LNG Imports	5.90	5.02	3.72	3.72	4.62	4.61	4.57	7.07
CNG								
Canada	2.00	1.48	1.42	1.31	1.01	1.19	2.69	2.14
Total CNG Imports	2.00	1.48	1.42	1.31	1.01	1.19	2.69	2.14
Total Imports	2.61	2.09	2.22	2.16	1.87	1.73	2.20	2.45
Net Imports - Volume	-91,518	-87,672	-74,424	-58,986	-33,526	-44,947	-36,677	-20,705

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				August
	February	January	Total	December	November	October	September	
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	229,812	283,093	2,953,524	263,079	233,830	238,779	226,700	239,935
Mexico	805	130	1,346	504	76	81	68	63
Total Pipeline Imports	230,617	283,223	2,954,870	263,583	233,906	238,859	226,769	239,997
LNG								
By Truck								
Canada	21	10	1,569	8	165	120	183	226
By Vessel								
France	0	0	0	0	0	0	0	0
Nigeria	0	0	5,992	3,239	0	0	0	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	6,750	13,511	70,450	7,617	6,213	2,337	2,467	7,636
United Kingdom	0	3,119	0	0	0	0	0	0
Total LNG Imports	6,771	16,640	78,011	10,864	6,378	2,457	2,650	7,862
CNG								
Canada	29	28	345	31	30	22	25	28
Total CNG Imports	29	28	345	31	30	22	25	28
Total Imports	237,417	299,891	3,033,226	274,478	240,314	241,338	229,444	247,888
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.75	3.79	2.55	2.95	2.40	1.99	2.05	2.24
Mexico	4.38	3.38	2.93	3.42	2.44	2.43	2.64	2.31
Total Pipeline Imports	2.76	3.79	2.55	2.95	2.40	1.99	2.05	2.24
LNG								
By Truck								
Canada	7.17	7.94	8.63	8.19	8.12	8.33	8.66	8.69
By Vessel								
France	--	--	--	--	--	--	--	--
Nigeria	--	--	6.52	7.11	--	--	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	5.95	6.18	4.32	4.88	3.47	4.20	3.74	3.19
United Kingdom	--	13.26	--	--	--	--	--	--
Total LNG Imports	5.95	7.51	4.58	5.55	3.59	4.41	4.08	3.34
CNG								
Canada	12.03	10.87	2.95	4.31	1.17	1.06	0.82	0.97
Total CNG Imports	12.03	10.87	2.95	4.31	1.17	1.06	0.82	0.97
Total Imports	3.02	4.41	2.60	3.27	2.53	2.06	2.12	2.38
Net Imports - Volume	-38,235	-342	-120,578	-25,661	-47,413	-38,437	-19,472	586

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						
	July	June	May	April	March	February	January
Imports							
Volume (million cubic feet)							
Pipeline							
Canada ^a	245,212	234,061	238,753	232,998	275,573	246,020	278,584
Mexico	80	78	78	79	83	74	83
Total Pipeline Imports	245,292	234,140	238,831	233,077	275,656	246,094	278,666
LNG							
By Truck							
Canada	215	212	220	186	8	8	18
By Vessel							
France	0	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0	2,753
Norway	0	0	0	0	0	0	0
Trinidad/Tobago	4,974	5,425	5,275	4,985	4,870	8,468	10,183
United Kingdom	0	0	0	0	0	0	0
Total LNG Imports	5,189	5,637	5,494	5,171	4,878	8,477	12,955
CNG							
Canada	27	29	28	31	34	26	35
Total CNG Imports	27	29	28	31	34	26	35
Total Imports	250,508	239,805	244,353	238,279	280,567	254,597	291,666
Average Price (dollars per thousand cubic feet)							
Pipeline							
Canada	2.31	2.51	2.59	2.53	2.57	2.81	3.40
Mexico	2.62	2.77	2.62	2.64	2.27	2.94	3.29
Total Pipeline Imports	2.31	2.51	2.59	2.53	2.57	2.81	3.40
LNG							
By Truck							
Canada	8.78	8.91	8.88	8.49	7.05	7.22	9.12
By Vessel							
France	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	5.82
Norway	--	--	--	--	--	--	--
Trinidad/Tobago	3.21	3.37	3.65	3.56	4.34	6.39	5.48
United Kingdom	--	--	--	--	--	--	--
Total LNG Imports	3.44	3.58	3.86	3.74	4.35	6.39	5.56
CNG							
Canada	1.19	1.64	1.86	1.76	1.91	6.07	10.64
Total CNG Imports	1.19	1.64	1.86	1.76	1.91	6.07	10.64
Total Imports	2.40	2.62	2.70	2.64	2.68	3.14	3.74
Net Imports - Volume	1,707	-13,517	-4,514	-4,146	7,222	1,370	21,696

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

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

^c Revised data.

^d Not applicable.

* 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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	770,069	646,097	761,598	76,246	71,573	78,302	68,613	61,809
Mexico	1,553,959	1,407,233	1,259,365	170,626	162,129	168,089	167,902	156,440
Total Pipeline Exports	2,324,028	2,053,329	2,020,963	246,872	233,702	246,391	236,515	218,249
LNG								
Exports								
By Vessel								
Argentina	38,323	27,560	16,276	0	0	0	13,066	12,150
Bahamas	131	110	0	8	2	20	11	25
Barbados	171	134	161	25	17	17	17	13
Belgium	10,196	0	0	3,402	3,404	0	0	0
Brazil	51,989	35,645	17,648	3,345	6,117	12,868	6,949	10,086
Chile	79,666	34,233	22,383	6,608	9,811	6,297	9,382	19,012
China	10,550	83,425	59,106	0	0	0	0	0
Colombia	6,518	5,101	0	0	0	649	0	0
Dominican Republic	9,833	5,835	5,856	2,927	2,857	0	0	1,108
Egypt	0	6,554	6,781	0	0	0	0	0
France	76,087	4,846	0	14,228	6,740	3,249	0	0
Greece	6,891	0	0	0	0	0	0	0
Haiti	22	0	0	4	9	3	2	3
India	77,458	50,478	10,435	6,961	14,355	7,294	3,485	3,215
Israel	0	3,270	0	0	0	0	0	0
Italy	49,546	11,253	6,493	0	3,230	6,082	9,963	3,072
Jamaica	8,993	0	0	0	0	2,946	837	0
Japan	162,081	87,722	39,325	24,504	28,084	21,031	21,242	14,582
Jordan	32,332	31,404	29,186	0	3,616	3,277	3,449	7,342
Kuwait	10,308	9,981	20,213	0	0	3,401	3,405	0
Lithuania	0	0	6,844	0	0	0	0	0
Malta	413	2,927	867	0	0	0	0	0
Mexico	130,402	164,842	125,926	6,437	10,442	13,681	24,209	16,955
Netherlands	57,857	9,239	3,042	3,456	3,431	6,688	3,386	3,310
Pakistan	20,288	12,956	3,166	3,472	6,512	0	3,656	0
Panama	9,743	3,518	0	0	0	0	0	3,282
Poland	27,597	0	3,440	3,489	0	3,537	3,694	0
Portugal	46,997	9,214	15,821	6,621	2,924	6,051	6,994	6,908
Singapore	28,065	0	0	3,463	0	0	3,570	3,435
South Korea	203,315	201,021	88,235	42,233	10,818	13,387	32,663	20,402
Spain	134,157	6,780	22,342	13,704	37,935	17,195	3,297	13,506
Taiwan	16,478	13,307	6,069	3,138	0	3,683	0	0
Thailand	6,635	0	3,113	0	3,234	0	0	0
Turkey	22,809	10,273	14,367	3,528	0	0	0	0
United Arab Emirates	20,552	3,638	13,408	0	3,315	3,502	3,487	3,459
United Kingdom	50,925	17,103	3,410	26,260	3,303	3,608	0	0
By Truck								
Canada	25	18	3	14	9	0	0	0
Mexico	1,714	352	500	139	883	113	101	92
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	1,409,066	852,738	544,838	177,966	161,050	138,578	156,865	141,956
CNG								
Canada	208	176	138	28	15	15	20	20
Total CNG Exports	208	176	138	28	15	15	20	20
Total Exports	3,733,303	2,906,244	2,565,939	424,866	394,767	384,983	393,400	360,226

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		
	May	April	March	February	January	Total	December	November
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	70,182	71,333	93,182	91,561	87,269	835,982	100,101	89,784
Mexico	153,452	139,750	149,514	135,514	150,544	1,688,095	140,540	140,323
Total Pipeline Exports	223,633	211,083	242,696	227,074	237,813	2,524,077	240,641	230,107
LNG								
Exports								
By Vessel								
Argentina	8,737	4,369	0	0	0	27,560	0	0
Bahamas	14	14	11	14	11	137	14	13
Barbados	21	17	14	14	17	174	20	20
Belgium	0	0	3,390	0	0	0	0	0
Brazil	4,905	1,201	3,283	3,234	0	35,645	0	0
Chile	6,188	9,429	10,005	2,933	0	41,186	3,276	3,676
China	0	3,700	0	3,464	3,387	90,473	3,598	3,451
Colombia	0	0	2,935	0	2,934	5,101	0	0
Dominican Republic	0	0	0	2,942	0	5,835	0	0
Egypt	0	0	0	0	0	6,554	0	0
France	6,621	17,092	20,853	0	7,303	18,291	3,453	9,991
Greece	3,497	0	0	3,394	0	3,722	3,722	0
Haiti	0	2	0	0	0	0	0	0
India	13,942	6,742	7,446	6,989	7,030	57,634	7,156	0
Israel	0	0	0	0	0	3,270	0	0
Italy	6,560	0	6,684	3,454	10,502	17,390	6,137	0
Jamaica	2,890	0	2,320	0	0	1,303	0	1,303
Japan	7,149	10,531	7,143	10,320	17,495	125,534	13,977	23,835
Jordan	7,332	3,622	0	3,695	0	38,794	0	7,390
Kuwait	3,502	0	0	0	0	9,981	0	0
Lithuania	0	0	0	0	0	0	0	0
Malta	0	413	0	0	0	2,927	0	0
Mexico	20,244	10,406	7,038	6,681	14,310	182,246	10,610	6,794
Netherlands	10,734	13,010	10,452	3,390	0	12,188	0	2,949
Pakistan	0	0	3,282	3,365	0	12,956	0	0
Panama	0	0	3,191	3,269	0	6,786	3,268	0
Poland	0	3,414	3,701	0	9,762	3,231	0	3,231
Portugal	0	3,489	0	3,720	10,289	12,512	3,298	0
Singapore	3,397	320	6,631	7,249	0	3,679	3,679	0
South Korea	18,069	13,000	18,013	17,750	16,981	252,223	33,567	17,635
Spain	14,325	10,139	10,678	6,748	6,631	10,310	0	3,529
Taiwan	3,309	6,349	0	0	0	16,731	3,423	0
Thailand	3,401	0	0	0	0	0	0	0
Turkey	0	2,969	0	6,483	9,829	23,205	9,976	2,956
United Arab Emirates	0	6,787	0	0	0	3,638	0	0
United Kingdom	0	0	3,669	3,711	10,373	51,297	13,499	20,695
By Truck								
Canada	0	0	0	1	0	19	1	0
Mexico	75	87	73	48	104	587	121	115
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	144,913	127,102	130,814	102,866	126,957	1,083,118	122,795	107,585
CNG								
Canada	22	28	29	15	16	223	22	24
Total CNG Exports	22	28	29	15	16	223	22	24
Total Exports	368,568	338,213	373,539	329,954	364,787	3,607,418	363,458	337,716

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
	October	September	August	July	June	May	April	March
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	64,726	70,393	65,677	56,880	50,976	39,689	62,641	67,652
Mexico	152,025	149,966	154,231	150,856	137,454	137,600	130,586	132,249
Total Pipeline Exports	216,751	220,359	219,909	207,736	188,431	177,289	193,227	199,901
LNG								
Exports								
By Vessel								
Argentina	0	0	10,679	2,939	0	5,392	5,217	3,333
Bahamas	12	12	10	11	14	11	8	16
Barbados	14	14	13	10	10	13	8	13
Belgium	0	0	0	0	0	0	0	0
Brazil	0	0	15,425	12,540	0	1,153	3,255	3,272
Chile	0	3,675	0	6,525	5,865	0	4,987	6,994
China	7,269	0	3,588	10,644	2,926	10,416	17,509	10,739
Colombia	0	0	867	1,521	1,113	0	1,599	0
Dominican Republic	0	0	2,992	0	0	1,023	0	1,821
Egypt	0	0	0	0	0	0	0	0
France	4,846	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	7,131	5,910	0	5,918	6,717	7,118	3,254	10,834
Israel	0	0	0	0	0	3,270	0	0
Italy	4,785	6,468	0	0	0	0	0	0
Jamaica	0	0	0	0	0	0	0	0
Japan	3,017	16,698	10,286	13,438	9,820	12,782	10,967	0
Jordan	3,666	0	3,677	0	3,201	10,572	3,293	3,694
Kuwait	0	0	3,485	0	0	6,496	0	0
Lithuania	0	0	0	0	0	0	0	0
Malta	0	0	0	2,927	0	0	0	0
Mexico	7,076	10,559	20,708	21,237	26,591	13,512	11,074	28,877
Netherlands	3,071	2,915	0	0	0	0	3,253	0
Pakistan	0	0	0	0	0	3,222	3,258	3,108
Panama	0	0	0	0	0	2,077	0	1,442
Poland	0	0	0	0	0	0	0	0
Portugal	0	3,670	2,296	0	0	0	0	0
Singapore	0	0	0	0	0	0	0	0
South Korea	34,923	24,179	17,467	14,040	13,994	17,735	17,996	11,079
Spain	3,551	0	0	3,230	0	0	0	0
Taiwan	0	0	0	3,234	3,268	0	0	0
Thailand	0	0	0	0	0	0	0	0
Turkey	3,281	0	0	0	0	0	0	0
United Arab Emirates	0	3,638	0	0	0	0	0	0
United Kingdom	7,213	3,624	0	0	0	0	0	6,267
By Truck								
Canada	0	2	0	0	0	0	1	0
Mexico	31	17	33	26	17	6	4	56
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	89,886	81,381	91,526	98,240	73,535	94,797	85,684	91,542
CNG								
Canada	9	6	15	22	29	30	29	24
Total CNG Exports	9	6	15	22	29	30	29	24
Total Exports	306,646	301,746	311,449	305,997	261,995	272,116	278,941	291,468

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	
	February	January	Total	December	November	October	September	August
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	76,340	91,120	916,380	80,924	73,857	68,143	69,631	66,336
Mexico	125,628	136,638	1,529,711	136,597	133,750	131,433	124,553	135,496
Total Pipeline Exports	201,968	227,758	2,446,091	217,521	207,607	199,576	194,183	201,833
LNG								
Exports								
By Vessel								
Argentina	0	0	16,276	0	0	0	0	0
Bahamas	12	4	2	2	0	0	0	0
Barbados	20	20	200	19	20	17	14	16
Belgium	0	0	0	0	0	0	0	0
Brazil	0	0	17,648	0	0	6,967	3,364	0
Chile	3,249	2,938	25,746	3,362	0	3,675	0	0
China	6,750	13,584	103,410	23,433	20,871	24,588	10,056	0
Colombia	0	0	0	0	0	0	0	0
Dominican Republic	0	0	8,691	0	2,835	0	2,922	0
Egypt	0	6,554	6,781	0	0	0	0	3,317
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	0	3,596	20,919	3,427	7,057	0	0	0
Israel	0	0	0	0	0	0	0	0
Italy	0	0	6,493	0	0	0	0	3,372
Jamaica	0	0	0	0	0	0	0	0
Japan	7,099	3,615	53,218	13,893	0	6,725	0	3,614
Jordan	3,300	0	36,321	7,135	0	3,373	0	7,393
Kuwait	0	0	20,213	0	0	0	0	0
Lithuania	0	0	6,844	0	0	0	3,414	3,431
Malta	0	0	867	0	0	0	0	0
Mexico	14,777	10,431	140,321	3,635	10,760	6,686	10,286	6,860
Netherlands	0	0	3,042	0	0	0	0	0
Pakistan	0	3,368	3,166	0	0	0	0	0
Panama	0	0	0	0	0	0	0	0
Poland	0	0	3,440	0	0	0	0	0
Portugal	0	3,247	19,523	0	3,702	0	0	3,399
Singapore	0	0	0	0	0	0	0	0
South Korea	28,322	21,286	130,185	20,810	21,141	21,577	17,514	10,320
Spain	0	0	29,329	3,370	3,617	2,980	3,666	3,712
Taiwan	6,806	0	9,004	0	2,934	3,121	0	0
Thailand	0	0	3,113	0	0	0	0	0
Turkey	3,279	3,714	24,855	3,413	7,076	0	3,443	0
United Arab Emirates	0	0	13,408	0	0	0	0	0
United Kingdom	0	0	3,410	0	0	0	0	0
By Truck								
Canada	15	0	5	0	2	0	0	0
Mexico	56	105	691	105	86	65	53	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	422	0	0	422	0	0
Total LNG Exports	73,684	72,463	707,542	82,604	80,100	80,195	54,733	45,468
CNG								
Canada	0	13	171	13	20	4	0	1
Total CNG Exports	0	13	171	13	20	4	0	1
Total Exports	275,652	300,234	3,153,804	300,138	287,727	279,775	248,916	247,302

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
	July	June	May	April	March	February	January
Exports							
Volume (million cubic feet)							
Pipeline							
Canada	59,760	66,725	63,949	80,532	99,914	87,798	98,811
Mexico	135,441	134,118	124,114	111,200	129,851	113,370	119,789
Total Pipeline Exports	195,201	200,844	188,062	191,732	229,765	201,167	218,600
LNG							
Exports							
By Vessel							
Argentina	0	2,949	3,192	10,135	0	0	0
Bahamas	0	0	0	0	0	0	0
Barbados	10	16	15	15	20	15	22
Belgium	0	0	0	0	0	0	0
Brazil	3,642	0	3,676	0	0	0	0
Chile	3,256	3,657	0	5,894	2,951	2,950	0
China	7,218	0	3,514	0	0	10,338	3,391
Colombia	0	0	0	0	0	0	0
Dominican Republic	0	0	0	0	2,934	0	0
Egypt	3,464	0	0	0	0	0	0
France	0	0	0	0	0	0	0
Greece	0	0	0	0	0	0	0
Haiti	0	0	0	0	0	0	0
India	0	3,413	0	0	0	3,399	3,623
Israel	0	0	0	0	0	0	0
Italy	0	3,120	0	0	0	0	0
Jamaica	0	0	0	0	0	0	0
Japan	0	3,683	3,667	7,398	0	3,705	10,533
Jordan	0	0	3,453	0	6,655	2,945	5,368
Kuwait	3,410	0	3,281	6,784	3,360	3,378	0
Lithuania	0	0	0	0	0	0	0
Malta	0	0	0	0	0	0	867
Mexico	14,432	24,763	10,023	13,730	10,728	14,407	14,010
Netherlands	0	0	3,042	0	0	0	0
Pakistan	0	0	0	0	3,166	0	0
Panama	0	0	0	0	0	0	0
Poland	0	0	3,440	0	0	0	0
Portugal	3,662	0	3,625	0	0	1,692	3,442
Singapore	0	0	0	0	0	0	0
South Korea	14,238	7,431	6,818	3,295	7,042	0	0
Spain	217	0	0	0	0	1,766	10,002
Taiwan	0	0	2,949	0	0	0	0
Thailand	0	0	0	0	3,113	0	0
Turkey	0	0	0	0	3,521	7,402	0
United Arab Emirates	0	0	10,062	3,347	0	0	0
United Kingdom	0	3,410	0	0	0	0	0
By Truck							
Canada	0	0	0	0	3	0	0
Mexico	44	19	26	70	61	44	85
Re-Exports							
By Vessel							
Argentina	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0
Japan	0	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0
Total LNG Exports	53,592	52,462	60,782	50,669	43,553	52,042	51,342
CNG							
Canada	8	16	23	24	27	18	19
Total CNG Exports	8	16	23	24	27	18	19
Total Exports	248,801	253,322	248,867	242,424	273,345	253,227	269,960

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 10-Month YTD	2018 10-Month YTD	2017 10-Month YTD	2019				
				October	September	August	July	June
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.79	3.09	3.12	2.20	2.22	2.15	2.31	2.39
Mexico	2.59	3.17	3.25	2.32	2.45	2.16	2.24	2.24
Total Pipeline Exports	2.66	3.15	3.20	2.28	2.38	2.15	2.26	2.28
LNG								
Exports								
By Vessel								
Argentina	5.19	6.01	4.64	--	--	--	5.24	5.13
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	5.37	--	--	3.47	5.93	--	--	--
Brazil	5.04	6.05	4.15	6.02	5.82	4.83	4.57	4.32
Chile	4.53	4.28	5.70	4.65	5.52	5.80	4.64	4.77
China	5.35	4.26	4.01	--	--	--	--	--
Colombia	4.06	4.86	--	--	--	5.67	--	--
Dominican Republic	4.43	3.91	4.57	5.51	3.53	--	--	6.27
Egypt	--	3.27	4.93	--	--	--	--	--
France	5.36	6.72	--	6.89	5.82	5.67	--	--
Greece	5.38	--	--	--	--	--	--	--
Haiti	10.39	--	--	10.39	10.39	10.39	10.39	10.39
India	4.73	4.79	4.48	4.65	5.15	3.98	6.09	5.23
Israel	--	6.48	--	--	--	--	--	--
Italy	5.07	5.73	3.95	--	5.81	4.31	5.37	3.15
Jamaica	4.83	--	--	--	--	5.15	5.05	--
Japan	6.54	6.75	6.23	6.18	5.45	6.89	6.82	4.30
Jordan	3.99	4.17	4.57	--	5.37	5.24	6.38	3.15
Kuwait	4.92	6.67	4.38	--	--	5.24	5.60	--
Lithuania	--	--	3.84	--	--	--	--	--
Malta	3.76	6.70	4.70	--	--	--	--	--
Mexico	4.51	4.59	4.97	6.18	3.85	3.65	5.03	5.23
Netherlands	4.49	6.54	6.35	6.55	3.21	3.86	3.20	3.15
Pakistan	5.56	5.60	3.14	5.58	5.61	--	6.39	--
Panama	7.69	5.30	--	--	--	--	--	8.12
Poland	5.74	--	4.26	6.03	--	5.15	3.17	--
Portugal	5.21	4.26	6.20	5.54	5.28	4.98	5.75	4.24
Singapore	5.09	--	--	5.58	--	--	5.60	7.75
South Korea	4.40	4.26	4.08	4.98	5.02	5.25	4.81	3.54
Spain	5.30	5.00	5.08	4.86	5.64	4.99	4.81	4.87
Taiwan	4.35	6.25	3.98	3.94	--	4.90	--	--
Thailand	6.12	--	3.14	--	5.81	--	--	--
Turkey	5.23	3.72	5.54	3.57	--	--	--	--
United Arab Emirates	3.99	3.46	3.87	--	3.22	5.24	5.60	3.32
United Kingdom	5.17	5.06	3.87	5.23	4.77	6.20	--	--
By Truck								
Canada	9.43	12.81	8.39	10.29	8.21	--	--	--
Mexico	9.89	7.99	9.01	9.41	10.66	8.41	8.67	8.77
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--	--
Mexico	--	--	5.00	--	--	--	--	--
Total LNG Exports	5.06	4.91	4.72	5.40	5.28	5.13	5.29	4.57
CNG								
Canada	3.78	3.85	5.07	2.18	1.98	2.18	2.21	2.43
Total CNG Exports	3.78	3.85	5.07	2.18	1.98	2.18	2.21	2.43
Total Exports	3.57	3.66	3.52	3.59	3.57	3.23	3.47	3.18

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		
	May	April	March	February	January	Total	December	November
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.55	2.72	3.49	3.38	3.89	3.41	4.60	4.36
Mexico	3.12	2.37	2.77	3.03	3.42	3.30	4.24	3.64
Total Pipeline Exports	2.94	2.49	3.05	3.17	3.60	3.33	4.39	3.92
LNG								
Exports								
By Vessel								
Argentina	5.02	5.51	--	--	--	6.01	--	--
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	--	--	6.72	--	--	--	--	--
Brazil	5.79	6.62	3.41	6.64	--	6.05	--	--
Chile	3.07	4.21	3.41	4.35	--	4.33	5.63	3.61
China	--	3.76	--	4.97	7.47	4.41	5.63	6.92
Colombia	--	--	3.41	--	4.35	4.86	--	--
Dominican Republic	--	--	--	3.52	--	3.91	--	--
Egypt	--	--	--	--	--	3.27	--	--
France	6.23	4.26	5.24	--	3.94	7.03	7.47	7.02
Greece	3.97	--	--	6.84	--	7.62	7.62	--
Haiti	--	10.39	--	--	--	--	--	--
India	4.11	3.48	3.67	5.53	6.60	5.02	6.64	--
Israel	--	--	--	--	--	6.48	--	--
Italy	4.40	--	5.20	4.72	6.00	6.46	7.79	--
Jamaica	3.07	--	6.52	--	--	6.92	--	6.92
Japan	7.94	7.33	8.00	7.98	7.37	6.86	8.42	6.34
Jordan	3.07	3.24	--	3.52	--	4.10	--	3.80
Kuwait	3.94	--	--	--	--	6.67	--	--
Lithuania	--	--	--	--	--	--	--	--
Malta	--	3.76	--	--	--	6.70	--	--
Mexico	3.74	4.67	3.41	5.06	4.63	4.70	5.04	6.92
Netherlands	4.38	4.91	5.30	3.81	--	6.61	--	6.83
Pakistan	--	--	6.64	3.52	--	5.60	--	--
Panama	--	--	8.12	6.84	--	5.46	5.63	--
Poland	--	7.78	3.41	--	7.00	7.12	--	7.12
Portugal	--	3.66	--	3.97	6.39	5.45	8.79	--
Singapore	3.07	6.36	5.86	3.52	--	5.63	5.63	--
South Korea	3.12	4.74	3.41	4.12	4.63	4.56	6.75	3.80
Spain	5.19	4.80	4.88	5.05	8.11	4.59	--	3.80
Taiwan	4.37	4.23	--	--	--	6.51	7.49	--
Thailand	6.42	--	--	--	--	--	--	--
Turkey	--	3.76	--	6.64	5.33	5.38	6.64	6.92
United Arab Emirates	--	3.24	--	--	--	3.46	--	--
United Kingdom	--	--	5.15	3.52	5.40	5.77	6.87	5.65
By Truck								
Canada	--	--	--	8.93	--	12.71	10.29	--
Mexico	8.85	8.92	9.92	9.17	9.58	8.52	9.30	9.31
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	--
Total LNG Exports	4.39	4.70	4.84	5.06	5.89	5.20	6.84	5.62
CNG								
Canada	2.49	3.28	5.11	7.70	10.05	4.69	11.62	4.40
Total CNG Exports	2.49	3.28	5.11	7.70	10.05	4.69	11.62	4.40
Total Exports	3.51	3.32	3.68	3.76	4.39	3.89	5.22	4.46

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

	October	September	August	July	June	May	April	2018 March
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	3.24	2.92	2.95	2.83	2.75	2.63	2.90	2.63
Mexico	3.29	3.00	3.21	3.03	3.04	3.09	3.01	3.00
Total Pipeline Exports	3.28	2.98	3.13	2.98	2.96	2.99	2.98	2.87
LNG								
Exports								
By Vessel								
Argentina	--	--	6.61	6.91	--	4.59	5.56	6.28
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	--	--	5.79	5.90	--	6.48	6.33	7.46
Chile	--	3.46	--	6.77	3.44	--	4.76	3.15
China	3.61	--	3.38	3.53	6.56	4.31	3.67	4.20
Colombia	--	--	6.49	6.70	3.44	--	3.21	--
Dominican Republic	--	--	3.38	--	--	6.80	--	3.15
Egypt	--	--	--	--	--	--	--	--
France	6.72	--	--	--	--	--	--	--
Greece	--	--	--	--	--	--	--	--
Haiti	--	--	--	--	--	--	--	--
India	5.23	4.76	--	6.83	3.44	3.37	6.33	5.22
Israel	--	--	--	--	--	6.48	--	--
Italy	6.72	4.99	--	--	--	--	--	--
Jamaica	--	--	--	--	--	--	--	--
Japan	7.91	7.13	8.25	6.86	6.34	7.11	4.95	--
Jordan	3.61	--	3.38	--	6.85	3.37	6.63	3.15
Kuwait	--	--	6.49	--	--	6.76	--	--
Lithuania	--	--	--	--	--	--	--	--
Malta	--	--	--	6.70	--	--	--	--
Mexico	5.22	4.40	5.04	4.06	4.58	5.47	3.98	4.32
Netherlands	6.72	6.58	--	--	--	--	6.33	--
Pakistan	--	--	--	--	--	6.63	6.33	6.28
Panama	--	--	--	--	--	6.80	--	3.15
Poland	--	--	--	--	--	--	--	--
Portugal	--	3.46	6.94	--	--	--	--	--
Singapore	--	--	--	--	--	--	--	--
South Korea	4.52	3.86	3.38	3.58	3.44	3.84	3.66	3.15
Spain	3.46	--	--	6.70	--	--	--	--
Taiwan	--	--	--	6.70	6.56	--	--	--
Thailand	--	--	--	--	--	--	--	--
Turkey	3.61	--	--	--	--	--	--	--
United Arab Emirates	--	3.46	--	--	--	--	--	--
United Kingdom	5.13	3.46	--	--	--	--	--	5.89
By Truck								
Canada	--	8.23	--	--	--	--	7.79	--
Mexico	7.30	7.62	9.81	8.80	7.04	7.18	6.40	8.03
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	--
Total LNG Exports	4.92	4.78	5.33	5.28	4.65	5.03	4.56	4.45
CNG								
Canada	3.50	2.98	2.89	2.88	2.63	2.75	4.29	3.48
Total CNG Exports	3.50	2.98	2.89	2.88	2.63	2.75	4.29	3.48
Total Exports	3.76	3.47	3.78	3.72	3.43	3.70	3.46	3.37

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		Total	December	November	October	September	2017
	February	January						August
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	3.16	4.17	3.12	3.19	2.99	2.78	2.88	2.84
Mexico	3.41	3.64	3.26	3.33	3.28	3.28	3.29	3.28
Total Pipeline Exports	3.31	3.85	3.20	3.28	3.18	3.11	3.14	3.13
LNG								
Exports								
By Vessel								
Argentina	--	--	4.64	--	--	--	--	--
Bahamas	10.39	10.39	10.40	10.40	--	--	--	--
Barbados	10.39	10.39	10.40	10.40	10.40	10.40	10.40	10.40
Belgium	--	--	--	--	--	--	--	--
Brazil	--	--	4.15	--	--	4.14	3.55	--
Chile	4.34	3.27	5.43	3.68	--	3.56	--	--
China	5.93	4.84	4.32	4.87	4.60	3.56	3.99	--
Colombia	--	--	--	--	--	--	--	--
Dominican Republic	--	--	4.15	--	3.30	--	3.55	--
Egypt	--	3.27	4.93	--	--	--	--	3.55
France	--	--	--	--	--	--	--	--
Greece	--	--	--	--	--	--	--	--
Haiti	--	--	--	--	--	--	--	--
India	--	3.27	4.84	6.80	4.41	--	--	--
Israel	--	--	--	--	--	--	--	--
Italy	--	--	3.95	--	--	--	--	3.55
Jamaica	--	--	--	--	--	--	--	--
Japan	7.46	3.27	6.13	5.87	--	3.56	--	6.14
Jordan	4.34	--	4.40	3.68	--	5.45	--	3.55
Kuwait	--	--	4.38	--	--	--	--	--
Lithuania	--	--	3.84	--	--	--	3.55	4.13
Malta	--	--	4.70	--	--	--	--	--
Mexico	4.85	4.43	4.93	3.68	4.85	5.54	3.98	3.55
Netherlands	--	--	6.35	--	--	--	--	--
Pakistan	--	3.27	3.14	--	--	--	--	--
Panama	--	--	--	--	--	--	--	--
Poland	--	--	4.26	--	--	--	--	--
Portugal	--	3.27	5.65	--	3.29	--	--	4.38
Singapore	--	--	--	--	--	--	--	--
South Korea	5.85	5.31	4.18	4.20	4.60	4.15	4.05	3.59
Spain	--	--	4.94	5.73	3.29	3.56	3.55	3.55
Taiwan	5.89	--	4.77	--	6.41	3.56	--	--
Thailand	--	--	3.14	--	--	--	--	--
Turkey	4.34	3.27	4.84	3.68	3.98	--	3.55	--
United Arab Emirates	--	--	3.87	--	--	--	--	--
United Kingdom	--	--	3.87	--	--	--	--	--
By Truck								
Canada	13.63	19.21	8.05	--	7.35	--	--	--
Mexico	8.43	7.49	8.74	8.11	7.94	8.43	8.67	8.94
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--	--
Mexico	--	--	5.00	--	--	5.00	--	--
Total LNG Exports	5.62	4.34	4.69	4.74	4.47	4.02	3.88	3.88
CNG								
Canada	--	12.47	4.76	6.53	1.38	1.00	--	2.50
Total CNG Exports	--	12.47	4.76	6.53	1.38	1.00	--	2.50
Total Exports	3.93	3.97	3.54	3.68	3.54	3.37	3.30	3.27

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						
	July	June	May	April	March	February	January
Exports							
Average Price (dollars per thousand cubic feet)							
Pipeline							
Canada	2.90	3.02	3.16	3.19	3.01	3.22	3.85
Mexico	3.22	3.13	3.17	3.29	2.94	3.25	3.67
Total Pipeline Exports	3.13	3.10	3.17	3.25	2.97	3.24	3.75
LNG							
Exports							
By Vessel							
Argentina	--	3.87	4.77	4.82	--	--	--
Bahamas	--	--	--	--	--	--	--
Barbados	10.40	10.40	10.40	10.40	10.40	10.40	10.40
Belgium	--	--	--	--	--	--	--
Brazil	4.23	--	4.63	--	--	--	--
Chile	3.67	6.46	--	6.65	6.26	7.18	--
China	3.67	--	4.62	--	--	4.92	4.70
Colombia	--	--	--	--	--	--	--
Dominican Republic	--	--	--	--	5.59	--	--
Egypt	6.26	--	--	--	--	--	--
France	--	--	--	--	--	--	--
Greece	--	--	--	--	--	--	--
Haiti	--	--	--	--	--	--	--
India	--	4.67	--	--	--	4.06	4.70
Israel	--	--	--	--	--	--	--
Italy	--	4.38	--	--	--	--	--
Jamaica	--	--	--	--	--	--	--
Japan	--	6.99	6.88	6.92	--	7.18	6.65
Jordan	--	--	3.76	--	4.42	4.06	6.41
Kuwait	4.51	--	4.77	4.19	3.14	5.50	--
Lithuania	--	--	--	--	--	--	--
Malta	--	--	--	--	--	--	4.70
Mexico	4.17	4.40	4.67	4.31	5.25	6.40	7.15
Netherlands	--	--	6.35	--	--	--	--
Pakistan	--	--	--	--	3.14	--	--
Panama	--	--	--	--	--	--	--
Poland	--	--	4.26	--	--	--	--
Portugal	6.26	--	6.35	--	--	7.18	7.29
Singapore	--	--	--	--	--	--	--
South Korea	3.67	3.87	4.87	6.39	3.81	--	--
Spain	6.26	--	--	--	--	7.18	6.28
Taiwan	--	--	4.43	--	--	--	--
Thailand	--	--	--	--	3.14	--	--
Turkey	--	--	--	--	4.60	6.91	--
United Arab Emirates	--	--	3.89	3.80	--	--	--
United Kingdom	--	3.87	--	--	--	--	--
By Truck							
Canada	--	--	--	--	8.39	--	--
Mexico	8.80	9.04	8.90	8.95	8.64	9.97	9.66
Re-Exports							
By Vessel							
Argentina	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--
Total LNG Exports	4.26	4.61	4.80	5.16	4.47	5.99	6.44
CNG							
Canada	2.72	3.14	3.39	3.35	3.32	7.73	12.97
Total CNG Exports	2.72	3.14	3.39	3.35	3.32	7.73	12.97
Total Exports	3.37	3.41	3.57	3.65	3.21	3.80	4.26

^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	61,589	16,691	143,061	19,042	160,387	4,145	105,545	48,478	131,843
February	275,044	55,892	18,768	129,476	17,303	144,038	3,788	97,525	48,103	119,084
March	308,111	61,289	17,688	142,472	19,101	179,247	4,186	110,403	53,894	131,843
April	286,963	59,338	17,278	136,674	18,079	154,614	4,080	107,227	55,192	132,090
May	286,678	60,578	17,796	139,554	18,493	162,393	4,279	113,966	57,609	136,493
June	248,829	57,974	17,229	136,867	18,318	167,062	4,137	108,031	55,675	139,251
July	205,707	58,436	19,987	142,713	18,892	166,761	4,263	112,676	58,918	159,030
August	221,579	58,001	17,558	146,171	18,630	183,437	4,288	111,221	60,597	159,030
September	255,362	55,441	17,145	143,333	18,000	186,837	4,060	111,273	58,407	160,759
October	283,192	56,821	18,316	150,395	18,376	207,515	4,158	117,303	64,060	173,259
November	282,589	54,320	16,767	145,706	17,669	209,564	3,983	111,243	62,978	167,670
December	295,221	54,996	17,235	154,220	17,736	226,850	4,070	116,607	64,688	181,007
Total	3,250,769	694,676	212,458	1,710,643	219,639	2,148,704	49,437	1,323,019	688,600	1,791,359
2018										
January	296,757	51,300	17,104	153,672	17,465	218,950	3,993	116,107	64,383	183,232
February	268,600	46,194	15,646	138,079	15,943	200,812	3,544	108,277	59,004	171,082
March	295,800	50,569	17,207	153,385	17,586	240,079	3,895	120,456	65,768	190,999
April	282,714	50,857	16,605	148,397	17,096	220,956	3,857	122,104	67,296	184,005
May	282,740	51,030	17,238	154,111	17,571	242,360	3,942	124,029	71,777	193,540
June	229,033	48,815	16,709	144,180	16,127	236,691	3,792	123,048	69,003	193,039
July	234,036	49,419	17,230	151,809	17,221	234,728	4,019	132,395	74,394	200,544
August	242,875	49,558	17,178	155,356	16,897	230,505	4,093	135,952	75,638	207,762
September	255,611	47,639	16,696	153,057	16,487	244,763	3,951	131,007	75,790	210,064
October	271,051	49,136	17,181	160,033	16,831	251,009	3,978	138,279	79,647	221,811
November	290,815	47,258	16,696	157,889	16,033	247,422	3,964	134,160	75,325	220,554
December	304,681	48,199	17,125	166,454	16,248	249,848	4,039	141,505	80,944	232,522
Total	3,254,712	589,973	202,616	1,836,422	201,505	2,818,124	47,067	1,527,319	858,969	2,409,153
2019										
January	310,279	E47,824	E16,550	E165,670	E16,282	E255,622	E4,068	E143,500	E83,171	E213,010
February	267,512	E42,493	E15,304	E149,053	E14,518	E237,649	E3,451	E135,371	E72,628	E191,241
March	285,417	E46,829	E16,711	E164,528	E16,023	E260,547	E3,887	E151,985	E86,841	E209,214
April	289,530	E44,950	E16,307	E162,357	E15,803	E246,063	E4,059	E147,958	E84,331	E202,886
May	285,820	E45,316	E16,498	E166,372	E15,398	E249,475	E4,229	E154,032	E87,280	E208,535
June	253,800	E43,131	E16,012	E162,898	E15,871	E265,936	E4,274	E148,171	E86,221	E209,345
July	234,670	E44,275	E16,636	E166,322	E16,141	E260,845	E4,136	E154,214	E91,364	E228,348
August	224,285	RE43,886	E16,719	RE166,697	RE15,901	RE269,617	RE4,128	RE164,414	RE92,660	RE231,787
September	242,670	RE42,192	RE16,016	RE161,959	RE15,114	RE257,878	RE4,102	RE159,750	RE87,487	RE225,696
October	269,421	E43,466	E15,980	E174,780	E15,375	E280,429	E4,138	E166,871	E94,218	E234,267
2019 10-Month	2,663,404	E444,362	E162,733	E1,640,635	E156,427	E2,584,061	E40,472	E1,526,265	E866,202	E2,154,330
2018 10-Month	2,659,216	494,515	168,795	1,512,079	169,224	2,320,853	39,065	1,251,653	702,700	1,956,077
2017 10-Month	2,672,959	585,360	178,457	1,410,717	184,234	1,712,290	41,384	1,095,170	560,933	1,442,682

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	460,047	651,172	27,704	107,493	141,236	46,956	102,820	2,723,628
February	179,163	414,569	603,066	25,048	100,013	130,019	42,246	90,122	2,493,267
March	207,995	459,451	664,360	27,543	115,090	144,709	46,653	103,082	2,797,117
April	203,362	446,734	650,271	26,630	113,282	141,143	44,745	92,264	2,689,967
May	207,889	457,522	680,017	27,552	124,025	141,295	46,273	96,552	2,778,965
June	203,690	442,640	664,291	26,319	124,711	141,289	43,739	88,369	2,688,422
July	213,003	456,133	695,440	26,482	132,398	144,476	43,433	95,249	2,753,997
August	218,247	449,310	678,062	26,413	137,060	145,435	44,417	90,215	2,769,670
September	211,644	442,607	668,604	25,405	133,066	142,018	43,385	85,937	2,763,285
October	226,421	446,747	710,628	25,949	139,034	146,958	43,944	78,298	2,911,373
November	220,016	472,918	698,278	24,923	141,574	145,044	42,470	79,292	2,897,003
December	228,540	504,961	715,786	25,243	146,533	152,111	43,600	76,016	3,025,419
Total	2,513,897	5,453,638	8,079,974	315,211	1,514,278	1,715,732	531,860	1,078,218	33,292,113
2018									
January	227,286	500,522	698,143	25,545	141,628	150,657	43,230	76,342	2,986,315
February	210,361	458,731	649,458	23,220	130,261	134,640	39,632	72,895	2,746,378
March	240,653	506,156	732,963	26,156	146,465	150,489	43,974	81,940	3,084,539
April	235,092	491,030	715,589	25,000	138,210	145,180	41,473	73,861	2,979,322
May	243,974	498,467	753,669	25,404	150,963	147,038	42,783	76,499	3,097,136
June	241,563	490,737	723,434	24,610	143,939	137,975	41,242	77,287	2,961,223
July	252,810	525,706	759,558	25,149	143,239	142,181	42,634	89,872	3,096,945
August	259,041	535,039	775,144	25,045	154,543	142,891	42,048	95,595	3,165,158
September	253,105	531,462	755,750	24,219	152,942	142,420	40,472	86,427	3,141,861
October	261,852	556,397	782,625	24,375	163,908	145,903	41,937	84,347	3,270,299
November	254,204	548,572	766,133	23,928	163,643	139,623	40,583	88,084	3,234,886
December	266,174	567,855	802,801	24,160	169,358	141,900	41,562	89,935	3,365,311
Total	2,946,117	6,210,673	8,915,266	296,810	1,799,097	1,720,897	501,570	993,083	37,129,374
2019									
January	€262,662	€577,495	€806,273	€23,796	€167,795	€130,338	€42,531	€90,502	€3,357,370
February	€240,995	€522,864	€745,847	€21,460	€153,614	€122,593	€38,770	€75,336	€3,050,698
March	€265,283	€583,492	€835,981	€23,777	€174,141	€130,346	€41,524	€90,612	€3,387,137
April	€262,767	€567,962	€812,680	€23,198	€170,556	€128,707	€40,635	€86,472	€3,307,221
May	€269,586	€583,846	€845,135	€23,745	€174,842	€133,657	€41,529	€86,967	€3,392,263
June	€259,034	€562,033	€823,479	€23,022	€174,222	€129,676	€40,353	€81,221	€3,298,699
July	€268,965	€591,927	€873,827	€22,948	€182,165	€118,762	€41,647	€66,586	€3,383,779
August	RE268,025	RE595,747	RE891,802	RE23,488	RE182,668	RE124,777	€40,629	RE87,522	RE3,444,752
September	RE267,938	RE577,060	RE878,740	RE22,334	RE182,328	RE132,103	RE40,708	RE81,154	RE3,395,230
October	€278,415	€595,440	€903,262	€22,506	€199,289	€135,385	€40,139	€84,552	€3,557,933
2019 10-Month YTD	€2,643,670	€5,757,867	€8,417,025	€230,275	€1,761,621	€1,286,343	€408,465	€830,925	€33,575,082
2018 10-Month YTD	2,425,739	5,094,246	7,346,333	248,722	1,466,096	1,439,374	419,424	815,064	30,529,177
2017 10-Month YTD	2,065,340	4,475,759	6,665,911	265,045	1,226,171	1,418,577	445,790	922,910	27,369,690

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 2019, 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: 2014-2018: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2018*, Bureau of Safety and Environmental Enforcement (BSEE), IHS Markit, Enverus DrillingInfo, and BENTEK Energy. January 2019 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	61,589	16,691	142,824	19,042	159,557	3,899	103,551	41,863	131,843
February	28,145	55,892	18,768	129,192	17,303	143,352	3,541	95,918	42,355	119,084
March	31,344	61,289	17,688	142,191	19,101	178,470	3,915	109,006	47,685	131,843
April	30,373	59,338	17,278	136,459	18,079	153,945	3,766	105,516	48,913	132,090
May	30,399	60,578	17,796	139,321	18,493	161,685	4,010	111,930	50,758	136,493
June	27,509	57,974	17,229	136,398	18,318	166,352	3,873	105,779	48,467	139,251
July	24,025	58,436	19,987	142,314	18,892	165,985	4,007	110,783	51,334	159,030
August	24,427	58,001	17,558	145,817	18,630	182,668	4,033	109,506	51,782	159,030
September	27,205	55,441	17,145	143,038	18,000	186,163	3,764	109,187	48,485	160,759
October	29,536	56,821	18,316	150,113	18,376	206,727	3,869	115,461	52,751	173,259
November	29,760	54,320	16,767	145,198	17,669	208,795	3,773	109,054	53,978	167,670
December	30,640	54,996	17,235	153,498	17,736	226,132	3,859	114,040	55,626	181,007
Total	344,385	694,676	212,458	1,706,364	219,639	2,139,830	46,311	1,299,732	593,998	1,791,359
2018										
January	31,077	51,300	17,104	153,087	17,465	218,276	3,771	113,251	54,285	183,232
February	27,725	46,194	15,646	137,734	15,943	200,263	3,324	106,283	51,266	171,082
March	30,900	50,569	17,207	153,041	17,586	239,471	3,658	117,506	57,232	190,999
April	28,908	50,857	16,605	148,147	17,096	220,375	3,612	119,012	56,281	184,005
May	28,831	51,030	17,238	153,850	17,571	241,693	3,545	120,626	58,913	193,540
June	26,045	48,815	16,709	143,677	16,127	236,070	3,405	119,413	56,937	193,039
July	26,116	49,419	17,230	151,382	17,221	234,075	3,721	128,888	60,511	200,544
August	26,127	49,558	17,178	154,968	16,897	229,816	3,735	132,412	61,951	207,762
September	27,050	47,639	16,696	152,730	16,487	244,147	3,669	127,349	61,903	210,064
October	28,202	49,136	17,181	159,719	16,831	250,357	3,705	133,526	62,864	221,811
November	29,407	47,258	16,696	157,322	16,033	246,845	3,668	129,774	59,110	220,554
December	30,927	48,199	17,125	165,667	16,248	249,249	3,711	137,103	64,537	232,522
Total	341,315	589,973	202,616	1,831,325	201,505	2,810,636	43,524	1,485,142	705,789	2,409,153
2019										
January	30,503	€47,824	€16,550	€165,206	€16,282	€254,932	€3,762	€139,539	€68,342	€213,010
February	26,728	€42,493	€15,304	€148,636	€14,518	€237,007	€3,191	€131,635	€59,679	€191,241
March	29,346	€46,829	€16,711	€164,067	€16,023	€259,843	€3,594	€147,791	€71,358	€209,214
April	28,816	€44,950	€16,307	€161,903	€15,803	€245,399	€3,753	€143,874	€69,295	€202,886
May	29,031	€45,316	€16,498	€165,906	€15,398	€248,802	€3,911	€149,781	€71,718	€208,535
June	26,889	€43,131	€16,012	€162,442	€15,871	€265,218	€3,952	€144,081	€70,848	€209,345
July	25,348	€44,275	€16,636	€165,856	€16,141	€260,141	€3,825	€149,958	€75,074	€228,348
August	22,876	RE43,886	€16,719	RE166,230	RE15,901	RE268,889	RE3,817	RE159,876	RE76,138	RE231,787
September	24,494	RE42,192	RE16,016	RE161,506	RE15,114	RE257,182	RE3,793	RE155,341	RE71,888	RE225,696
October	27,467	€43,466	€15,980	€174,290	€15,375	€279,671	€3,826	€162,265	€77,419	€234,267
2019 10-Month	271,497	€444,362	€162,733	€1,636,042	€156,427	€2,577,084	€37,424	€1,484,140	€711,758	€2,154,330
2018 10-Month	280,981	494,515	168,795	1,508,336	169,224	2,314,543	36,146	1,218,266	582,142	1,956,077
2017 10-Month	283,985	585,360	178,457	1,407,667	184,234	1,704,903	38,678	1,076,638	484,393	1,442,682

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	460,047	565,382	27,704	107,493	125,992	45,762	101,241	2,339,431
February	179,163	414,569	524,442	25,048	100,013	116,217	41,146	88,438	2,142,588
March	207,995	459,451	596,654	27,543	115,090	129,610	45,354	101,570	2,425,799
April	203,362	446,734	588,453	26,630	113,282	131,836	43,563	90,813	2,350,432
May	207,889	457,522	607,241	27,552	124,025	132,769	45,052	95,226	2,428,739
June	203,690	442,640	593,886	26,319	124,711	131,373	42,652	86,756	2,373,176
July	213,003	456,133	623,728	26,482	132,398	134,856	42,289	93,891	2,477,573
August	218,247	449,310	606,441	26,413	137,060	135,145	43,285	88,828	2,476,180
September	211,644	442,607	598,544	25,405	133,066	131,108	42,224	84,427	2,438,213
October	226,421	446,747	643,745	25,949	139,034	137,995	42,638	76,498	2,564,255
November	220,016	472,918	634,003	24,923	141,574	138,957	41,351	78,045	2,558,771
December	228,540	504,961	607,047	25,243	146,533	144,200	42,382	74,720	2,628,395
Total	2,513,897	5,453,638	7,189,566	315,211	1,514,278	1,590,059	517,698	1,060,452	29,203,550
2018									
January	227,286	500,522	615,376	25,545	141,628	142,875	41,880	74,529	2,612,489
February	210,361	458,731	574,974	23,220	130,261	127,589	38,402	71,399	2,410,396
March	240,653	506,156	656,456	26,156	146,465	143,442	42,668	80,519	2,720,684
April	235,092	491,030	631,147	25,000	138,210	138,820	40,390	72,459	2,617,048
May	243,974	498,467	667,166	25,404	150,963	140,134	41,710	74,899	2,729,555
June	241,563	490,737	637,507	24,610	143,939	130,841	40,070	75,809	2,645,313
July	252,810	525,706	656,502	25,149	143,239	136,782	41,305	88,243	2,758,842
August	259,041	535,039	669,265	25,045	154,543	135,916	41,179	94,309	2,814,741
September	253,105	531,462	668,361	24,219	152,942	134,703	39,219	85,171	2,796,916
October	261,852	556,397	683,197	24,375	163,908	138,810	40,577	82,691	2,895,137
November	254,204	548,572	693,090	23,928	163,643	134,114	39,251	86,765	2,870,234
December	266,174	567,855	694,061	24,160	169,358	136,237	40,277	88,532	2,951,941
Total	2,946,117	6,210,673	7,847,102	296,810	1,799,097	1,640,264	486,928	975,325	32,823,295
2019									
January	€262,662	€577,495	€709,681	€23,796	€167,795	€124,225	€41,297	€88,882	€2,951,785
February	€240,995	€522,864	€656,495	€21,460	€153,614	€116,844	€37,646	€73,987	€2,694,335
March	€265,283	€583,492	€735,830	€23,777	€174,141	€124,233	€40,320	€88,990	€3,000,840
April	€262,767	€567,962	€715,321	€23,198	€170,556	€122,671	€39,456	€84,924	€2,919,841
May	€269,586	€583,846	€743,888	€23,745	€174,842	€127,388	€40,325	€85,411	€3,003,926
June	€259,034	€562,033	€724,826	€23,022	€174,222	€123,594	€39,182	€79,767	€2,943,471
July	€268,965	€591,927	€769,143	€22,948	€182,165	€113,192	€40,439	€65,394	€3,039,774
August	RE268,025	RE595,747	RE784,964	RE23,488	RE182,668	RE118,925	RE39,451	RE85,955	RE3,105,344
September	RE267,938	RE577,060	RE773,467	RE22,334	RE182,328	RE125,907	RE39,527	RE79,701	RE3,041,485
October	€278,415	€595,440	€795,051	€22,506	€199,289	€129,035	€38,975	€83,039	€3,175,779
2019 10-Month YTD	€2,643,670	€5,757,867	€7,408,666	€230,275	€1,761,621	€1,226,014	€396,620	€816,051	€29,876,580
2018 10-Month YTD	2,425,739	5,094,246	6,459,951	248,722	1,466,096	1,369,913	407,400	800,028	27,001,120
2017 10-Month YTD	2,065,340	4,475,759	5,948,516	265,045	1,226,171	1,306,902	433,965	907,687	24,016,384

E Estimated data.

RE Revised estimated data.

Notes: For 2019 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 2019, 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: 2014-2018: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2018*, Bureau of Safety and Environmental Enforcement (BSEE), IHS Markit, Enverus DrillingInfo, and BENTEK Energy. January 2019 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 ^a	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	1,994	6,360	-147	-6.8	95	804	709
February	4,366	1,426	5,792	-246	-14.7	104	672	568
March	4,361	1,185	5,545	-205	-14.8	190	435	245
April	4,367	1,559	5,927	133	9.3	486	104	-382
May	4,372	2,031	6,403	184	9.9	557	85	-472
June	4,375	2,461	6,835	266	12.1	523	92	-431
July	4,374	2,714	7,088	333	14.0	415	162	-254
August	4,377	2,997	7,374	381	14.5	453	168	-286
September	4,378	3,415	7,793	464	15.7	529	109	-419
October	4,379	3,761	8,139	524	16.2	461	116	-346

^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; 2017 – 9,261; and 2018 – 9,241. 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.

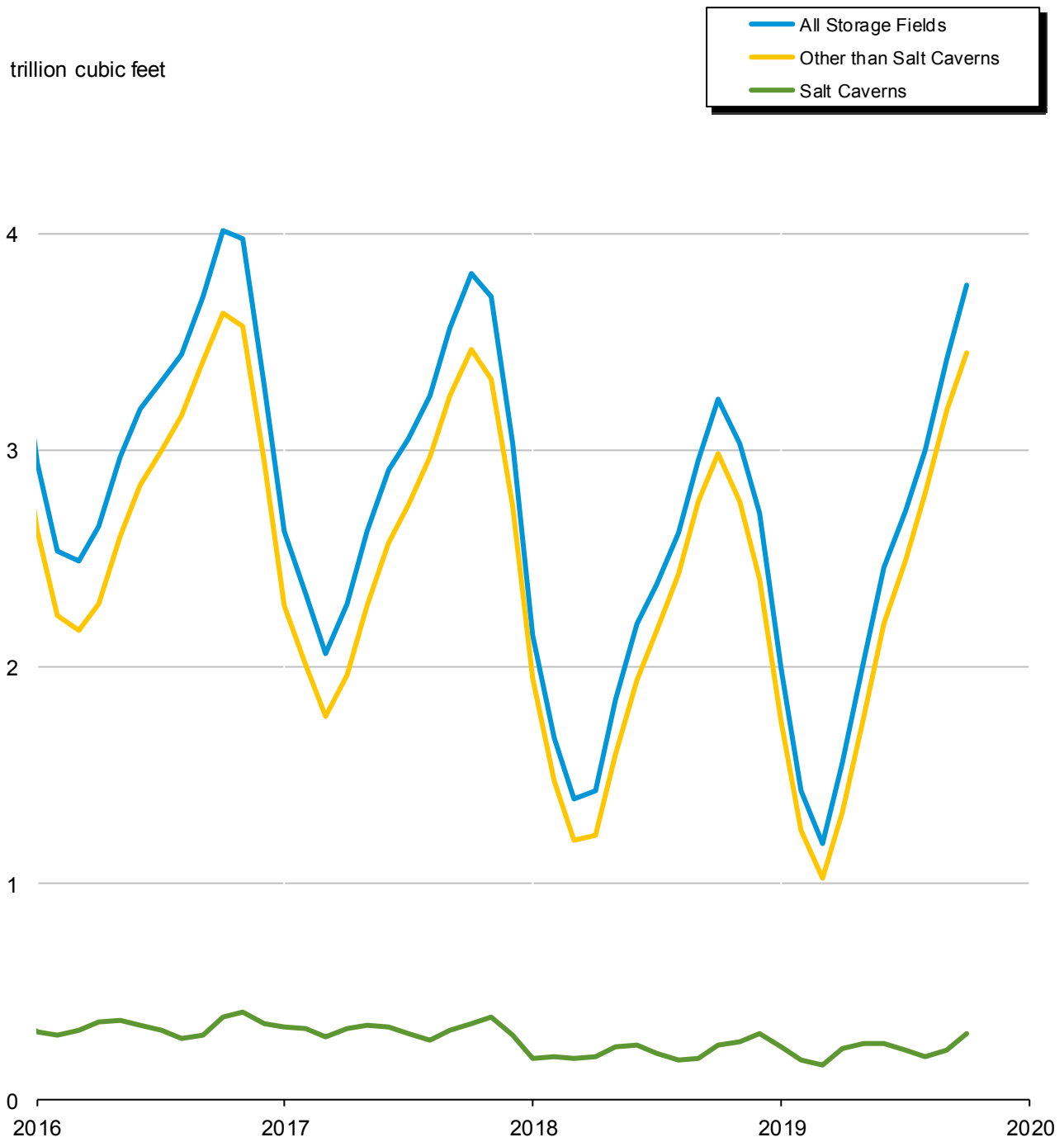
-- Not applicable.

Notes: Data for 2014 through 2017 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	1,994	6,360	-147	-6.8	95	804	709
February	4,366	1,426	5,792	-246	-14.7	104	672	568
March	4,361	1,185	5,545	-205	-14.8	190	435	245
Total	--	--	--	--	--	793	2,840	2,047
2019 Refill Season								
April	4,367	1,559	5,927	133	9.3	486	104	-382
May	4,372	2,031	6,403	184	9.9	557	85	-472
June	4,375	2,461	6,835	266	12.1	523	92	-431
July	4,374	2,714	7,088	333	14.0	415	162	-254
August	4,377	2,997	7,374	381	14.5	453	168	-286
September	4,378	3,415	7,793	464	15.7	529	109	-419
October	4,379	3,761	8,139	524	16.2	461	116	-346
Total	--	--	--	--	--	3,424	834	-2,590

^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 Revised data.

^c Not applicable.

Notes: Data for 2017 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	439	51	26.5	45	108	62
February	195	183	377	-13	-6.6	42	104	62
March	193	164	357	-28	-14.5	68	87	19
April	197	234	431	32	15.7	109	36	-73
May	198	258	456	9	3.8	75	51	-25
June	199	262	461	7	2.8	60	55	-4
July	198	227	425	13	6.3	51	86	35
August	199	200	399	13	7.1	52	78	26
September	199	232	431	42	22.1	78	46	-31
October	199	310	509	55	21.8	119	42	-77
2019 10-Month YTD	--	--	--	--	--	700	694	-6
2018 10-Month YTD	--	--	--	--	--	642	688	46
2017 10-Month YTD	--	--	--	--	--	591	587	-4

^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 2017 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	1,244	5,415	-233	-15.8	62	568	506
March	4,167	1,021	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	2,199	6,375	258	13.3	463	37	-427
July	4,176	2,487	6,663	319	14.7	364	75	-289
August	4,178	2,797	6,975	367	15.1	402	90	-312
September	4,179	3,183	7,362	422	15.3	451	63	-388
October	4,180	3,451	7,631	469	15.7	342	74	-269
2019 10-Month YTD	--	--	--	--	--	3,113	2,051	-1,062
2018 10-Month YTD	--	--	--	--	--	2,630	2,382	-248
2017 10-Month YTD	--	--	--	--	--	2,456	1,933	-523

^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 2017 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							
	October	September	August	July	June	May	April	March
Alabama	-3,437	-1,058	1,779	1,992	119	-1,047	-4,541	1,480
Alaska ^a	135	-843	-1,320	-1,508	-1,526	-1,169	-145	1,222
Arkansas	-231	-583	-886	-798	-768	-903	-312	696
California	-1,316	-13,476	-6,262	-11,473	-39,458	-45,527	-39,081	-1,442
Colorado	36	-6,314	-8,948	-4,963	-9,284	-2,673	-482	1,062
Illinois	-39,931	-39,814	-34,114	-21,798	-31,465	-29,250	-2,460	21,726
Indiana	-2,665	-3,454	-4,377	-2,746	-2,270	-2,093	-99	2,798
Iowa	-15,128	-18,004	-14,316	-2,823	-3,932	-4,426	-332	2,664
Kansas	3,567	-10,591	-11,621	-12,415	-15,807	-17,835	-13,773	7,971
Kentucky	-4,815	-9,197	-8,989	-8,250	-9,025	-11,913	-15,484	4,786
Louisiana	-44,922	-37,776	-10,645	-18,409	-39,117	-42,654	-56,512	17,530
Maryland	-2,900	-429	-247	-1,498	-395	-1,647	-1,044	3,480
Michigan	-50,393	-86,378	-76,948	-81,089	-93,949	-86,826	-45,883	65,710
Minnesota	-270	-288	-273	-192	-23	6	59	277
Mississippi	-27,125	-6,496	-2,273	9,277	790	-6,327	-24,390	6,673
Missouri	-307	7	7	8	8	8	-201	-410
Montana	864	-3,961	-3,624	-3,787	-4,224	-2,731	-1,857	1,364
Nebraska	275	-1,028	-1,218	-1,188	-2,241	-1,551	-604	304
New Mexico	-2,024	-2,162	-938	-2,974	-2,008	-3,961	-2,805	-148
New York	-14,260	-17,487	-13,493	-3,597	-7,902	-5,889	-7,371	7,677
Ohio	-18,142	-24,910	-28,593	-23,011	-25,172	-22,804	-9,978	25,100
Oklahoma	-10,329	-12,135	-6,377	-15,795	-18,719	-24,181	-16,486	8,971
Oregon	17	-1,508	418	-2,991	-3,170	-2,302	-750	15
Pennsylvania	-34,039	-56,268	-44,933	-22,994	-53,396	-55,605	-33,670	41,514
Tennessee	0	0	-95	-49	-45	-82	-37	24
Texas	-59,099	-31,110	22,555	11,375	-18,342	-38,598	-64,861	1,134
Utah	-2,353	-6,667	-4,869	-7,263	-7,794	-7,668	-4,492	5,387
Virginia	-13	-632	-10	275	-585	234	-603	419
Washington	3,069	-2,826	1,168	975	-1,299	-6,802	-3,896	-2,335
West Virginia	-17,448	^R -21,341	-26,666	-22,905	-31,677	-38,734	-27,036	18,400
Wyoming	-2,593	-2,433	459	-3,169	-8,583	-6,945	-2,941	1,199
Regions								
East Region	-86,802	^R -121,067	-113,942	-73,729	-119,128	-124,445	-79,702	96,588
South Central Region	-141,577	-99,748	-7,468	-24,774	-91,845	-131,547	-180,876	44,454
Midwest Region	-113,509	-157,129	-139,105	-116,940	-140,701	-134,577	-64,436	97,575
Mountain Region	-5,794	-22,565	-19,137	-23,345	-34,133	-25,528	-13,181	9,168
Pacific Region	1,770	-17,809	-4,676	-13,489	-43,928	-54,630	-43,727	-3,761
Total Lower 48 States	-345,913	^R -418,318	-284,327	-252,276	-429,734	-470,728	-381,922	244,023
U.S. Total	-345,778	^R -419,161	-285,647	-253,784	-431,259	-471,898	-382,067	245,245

See footnotes at end of table.

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

(million cubic feet) – continued

State	2019			2018				
	February	January	Total	December	November	October	September	August
Alabama	3,277	1,154	2,660	-4,038	-553	-3,424	3,736	3,070
Alaska ^a	2,658	3,160	-896	1,678	376	-743	-1,536	-1,795
Arkansas	1,094	1,185	-654	763	779	-345	-522	-931
California	50,783	30,628	52,175	33,067	11,111	-365	-12,150	290
Colorado	7,360	10,411	5,422	9,020	1,471	-2,840	-4,713	-5,997
Illinois	44,951	71,746	-3,407	44,338	5,019	-43,390	-42,720	-34,744
Indiana	3,994	6,207	-279	3,094	497	-2,417	-3,720	-4,155
Iowa	8,451	18,111	2,874	18,169	8,860	-19,964	-19,504	-15,538
Kansas	22,056	24,030	-796	14,219	6,918	-8,986	-13,872	-13,675
Kentucky	11,343	18,947	10,209	6,435	5,196	-4,344	-9,599	-4,460
Louisiana	50,759	60,935	58,314	10,719	22,799	-24,437	-20,246	-4,409
Maryland	2,834	3,137	-2,128	-346	288	-1,099	-652	-2,598
Michigan	115,237	138,813	43,376	58,969	44,138	-54,740	-65,317	-74,298
Minnesota	250	512	-274	22	10	-196	-279	-269
Mississippi	14,485	26,551	7,009	-13,517	825	-18,359	9,728	11,902
Missouri	11	1,325	-816	-118	-124	-330	-244	25
Montana	6,273	4,655	7,240	3,051	3,536	2,479	-2,451	-4,466
Nebraska	2,061	2,218	464	1,209	327	64	-1,400	-839
New Mexico	727	1,041	9,745	-302	-1,194	-2,223	-488	1,475
New York	14,552	18,955	14,193	10,444	7,608	-4,921	-14,541	-9,405
Ohio	34,073	38,856	4,840	21,319	18,578	-7,023	-22,743	-25,825
Oklahoma	25,251	27,838	11,813	11,329	6,616	-14,498	-10,303	-13,480
Oregon	4,007	5,447	-955	3,090	-454	-725	-2,316	431
Pennsylvania	65,257	80,114	17,829	35,891	25,911	-30,599	-54,224	-28,602
Tennessee	6	78	-35	138	59	23	2	-58
Texas	18,393	42,024	59,567	15,521	-3,988	-35,252	-12,209	28,909
Utah	8,384	10,048	7,760	7,577	6,999	-2,699	-5,992	-3,631
Virginia	-55	979	-973	-186	457	-1,094	-176	214
Washington	5,868	5,673	-802	1,698	1,393	53	-2,437	-2,448
West Virginia	39,896	50,155	17,127	23,533	27,577	-7,429	-22,336	-28,124
Wyoming	3,903	3,680	2,911	3,553	3,845	-702	-841	-1,932
Regions								
East Region	156,555	192,196	50,888	90,655	80,420	-52,163	-114,671	-94,340
South Central Region	135,316	183,717	137,912	34,995	33,396	-105,301	-43,688	11,385
Midwest Region	184,242	255,741	51,647	131,047	63,655	-125,358	-141,382	-133,497
Mountain Region	28,709	32,052	33,542	24,109	14,985	-5,921	-15,884	-15,390
Pacific Region	60,659	41,748	50,417	37,856	12,049	-1,037	-16,903	-1,727
Total Lower 48 States	565,481	705,454	324,407	318,661	204,505	-289,780	-332,528	-233,570
U.S. Total	568,139	708,614	323,511	320,339	204,881	-290,522	-334,064	-235,365

See footnotes at end of table.

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

(million cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	2,879	1,165	-3,590	-2,801	-2,192	885	7,522	3,570
Alaska ^a	-1,862	-1,749	-856	25	1,020	1,988	2,559	-3,585
Arkansas	-793	-838	-917	-193	776	616	951	-629
California	8,376	-18,473	-29,083	-18,639	10,696	25,368	41,978	5,688
Colorado	-2,338	-6,154	-6,557	127	4,370	9,346	9,686	-309
Illinois	-28,754	-29,674	-20,286	7,769	31,354	43,006	64,676	8,410
Indiana	-2,826	-3,023	-1,240	542	3,497	4,115	5,357	-69
Iowa	-1,673	-1,593	-2,828	1,387	6,081	9,545	19,932	329
Kansas	-12,141	-12,300	-12,254	-1,471	9,818	19,645	23,304	6,142
Kentucky	-2,846	-5,514	-10,612	3,827	312	8,578	23,235	15,130
Louisiana	7,158	-17,984	-42,625	7,969	7,193	16,429	95,750	26,198
Maryland	-2,904	-3,246	-1,661	654	1,983	2,961	4,492	-1,045
Michigan	-76,375	-75,997	-75,307	15,716	77,908	107,038	161,641	47,361
Minnesota	-221	-162	6	112	175	290	238	248
Mississippi	13,724	-1,213	-15,259	-3,445	-2,922	-12,144	37,691	21,817
Missouri	24	25	-345	321	98	-133	-15	248
Montana	-4,171	-4,023	-4,084	-591	4,348	6,469	7,142	2,360
Nebraska	-633	-887	-2,061	-472	1	1,856	3,298	1,266
New Mexico	3,751	93	-818	-258	1,785	3,846	4,077	11,752
New York	-6,908	-8,007	-12,164	-952	14,822	15,424	22,793	-3,120
Ohio	-25,872	-25,869	-26,345	4,379	27,353	24,424	42,463	9,594
Oklahoma	-5,348	-13,098	-17,878	-6,196	5,470	31,221	37,977	23,004
Oregon	-1,178	-2,824	-2,644	29	-261	2,704	3,193	214
Pennsylvania	-39,628	-46,334	-50,138	858	60,784	53,807	90,102	9,738
Tennessee	-82	-75	-96	-44	-30	25	104	-45
Texas	26,156	-22,377	-37,196	-28,408	-15,080	36,356	107,134	65,344
Utah	-4,035	-6,954	-8,576	-1,893	3,257	9,335	14,371	2,594
Virginia	74	-77	-607	-627	1,485	-193	-243	912
Washington	1,854	-5,671	-4,561	-2,546	2,206	6,762	2,896	1,133
West Virginia	-29,175	-33,562	-28,088	-6,014	28,590	33,907	58,248	-5,627
Wyoming	-612	-2,156	-4,390	-936	136	3,444	3,503	5,222
Regions								
East Region	-104,413	-117,095	-119,003	-1,702	135,016	130,329	217,855	10,452
South Central Region	31,635	-66,645	-129,720	-34,545	3,063	93,007	310,329	145,446
Midwest Region	-112,753	-116,013	-110,707	29,630	119,395	172,464	275,168	71,612
Mountain Region	-8,038	-20,081	-26,486	-4,022	13,898	34,295	42,077	22,884
Pacific Region	9,052	-26,969	-36,288	-21,156	12,640	34,834	48,067	7,035
Total Lower 48 States	-184,516	-346,803	-422,203	-31,796	284,013	464,929	893,495	257,429
U.S. Total	-186,378	-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	May
Alabama	2,448	-1,237	-3,630	-561	3,628	3,386	498	169
Alaska ^a	1,309	1,622	-476	-1,624	-2,476	-2,424	-2,108	-1,525
Arkansas	1,220	397	-251	-582	-574	-647	-581	-595
California	37,901	6,223	-4,453	-12,170	1,123	-6,826	-13,935	-23,446
Colorado	13,278	-4,315	-582	-6,013	-2,922	-5,245	-5,660	-4,519
Illinois	57,696	-333	-40,165	-41,306	-34,888	-25,184	-32,389	-17,012
Indiana	4,827	-1,525	-2,472	-2,352	-2,191	-2,486	-2,782	-1,664
Iowa	20,539	6,240	-20,082	-19,446	-11,805	-1,696	-1,917	-1,579
Kansas	22,474	-872	-5,986	-5,422	656	-2,088	-4,611	-14,016
Kentucky	15,659	3,170	-10,110	-8,402	-1,317	5,583	1,693	-8,818
Louisiana	57,784	-10,494	-13,491	-23,167	3,696	1,075	-5,251	-19,393
Maryland	2,079	816	-533	-1,395	-2,626	-2,873	-2,241	-3,128
Michigan	121,334	39,265	-34,646	-52,348	-54,494	-38,760	-57,334	-55,198
Minnesota	298	-9	-232	-242	-244	-220	-190	-63
Mississippi	29,161	-4,909	-11,495	-17,129	4,913	14,979	-476	-3,259
Missouri	864	-210	-217	-432	*	0	*	0
Montana	7,373	3,931	-812	-4,091	-2,393	-3,558	-4,182	-4,160
Nebraska	2,753	-232	-702	-1,206	-564	-935	182	-1,017
New Mexico	4,715	1,939	235	241	2,883	1,623	68	-1,257
New York	15,467	5,738	-10,854	-13,746	-15,700	-8,367	-12,765	-7,272
Ohio	33,605	16,388	-3,490	-22,590	-24,349	-26,059	-26,200	-18,721
Oklahoma	27,244	3,272	-9,766	-4,340	1,626	1,039	-10,437	-13,581
Oregon	5,113	190	-705	-899	-702	-545	-1,472	-3,170
Pennsylvania	61,182	20,680	-31,295	-33,239	-47,206	-37,135	-46,732	-51,111
Tennessee	68	5	-31	-42	11	8	-41	-32
Texas	84,716	-11,751	-30,361	-16,898	19,068	18,244	-15,267	-37,200
Utah	12,258	-177	-1,600	-4,342	-1,449	-3,718	-5,162	-7,294
Virginia	1,051	-144	-40	-761	-317	349	45	-513
Washington	4,053	-191	1,203	-3,610	-2,225	329	-2,739	-5,577
West Virginia	43,252	13,698	-11,598	-17,030	-24,959	-26,009	-26,523	-33,844
Wyoming	3,028	-1,194	1,188	-1,390	172	-1,694	-2,290	-1,936
Regions								
East Region	156,637	57,175	-57,810	-88,761	-115,156	-100,093	-114,416	-114,589
South Central Region	225,046	-25,593	-74,980	-68,100	33,012	35,989	-36,126	-87,874
Midwest Region	221,285	46,603	-107,955	-124,569	-104,928	-62,755	-92,960	-84,366
Mountain Region	43,405	-48	-2,273	-16,801	-4,273	-13,527	-17,044	-20,183
Pacific Region	47,067	6,222	-3,956	-16,679	-1,804	-7,041	-18,145	-32,194
Total Lower 48 States	693,440	84,358	-246,975	-314,911	-193,148	-147,426	-278,691	-339,205
U.S. Total	694,748	85,980	-247,451	-316,535	-195,625	-149,850	-280,799	-340,730

See footnotes at end of table.

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

State	2017			
	April	March	February	January
Alabama	-1,292	1,420	-1,005	-254
Alaska ^a	-1,076	1,572	1,409	2,213
Arkansas	-272	772	66	418
California	-16,167	-17,258	4,300	50,395
Colorado	-1,374	1,199	4,859	10,983
Illinois	4,438	35,264	42,917	59,371
Indiana	-501	2,040	3,067	5,972
Iowa	1,288	5,165	8,052	15,571
Kansas	-10,252	5,246	2,192	18,823
Kentucky	-12,511	5,772	7,787	16,622
Louisiana	-22,014	22,982	11,892	22,579
Maryland	-280	3,170	2,048	3,915
Michigan	-39,909	63,573	47,176	108,702
Minnesota	36	342	450	321
Mississippi	-8,395	6,585	1,802	10,041
Missouri	*	100	-20	163
Montana	-2,002	1,137	4,042	7,075
Nebraska	-979	-287	1,408	2,844
New Mexico	-1,704	-2,779	1,321	4,466
New York	-5,894	17,047	12,369	20,857
Ohio	-5,818	27,859	22,619	36,350
Oklahoma	-4,742	-5,893	3,193	35,389
Oregon	-336	-2,364	606	4,500
Pennsylvania	-33,170	70,898	54,306	82,560
Tennessee	-29	-5	14	31
Texas	-30,805	1,147	6,329	78,122
Utah	-2,628	-518	5,334	11,889
Virginia	-310	689	685	180
Washington	-2,596	1,556	4,022	6,908
West Virginia	-30,240	27,775	29,958	49,893
Wyoming	-632	234	1,737	8,000
Regions				
East Region	-75,713	147,438	121,986	193,754
South Central Region	-77,772	32,259	24,469	165,118
Midwest Region	-47,188	112,250	109,443	206,754
Mountain Region	-9,318	-1,014	18,701	45,258
Pacific Region	-19,099	-18,066	8,927	61,803
Total Lower 48 States	-229,091	272,867	283,526	672,686
U.S. Total	-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, October 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	16,944	27,394	4,873	40.4	5,339	1,902
Alaska ^a	5	83,592	67,915	14,197	36,397	50,594	-2,741	-7.0	650	785
Arkansas	2	21,774	8,894	12,880	4,933	17,813	-33	-0.7	354	123
California	14	604,048	373,966	230,115	258,161	488,276	32,914	14.6	10,360	9,044
Colorado	10	141,407	72,754	61,100	51,516	112,616	2,270	4.6	5,265	5,301
Illinois	28	1,012,160	303,613	710,931	254,887	965,818	7,827	3.2	40,884	953
Indiana	23	113,006	32,279	80,740	27,504	108,245	1,449	5.6	2,716	51
Iowa	4	288,210	90,313	197,881	78,205	276,086	2,707	3.6	15,835	707
Kansas	16	282,986	122,982	163,807	101,175	264,982	3,327	3.4	6,273	9,840
Kentucky	22	221,695	107,506	112,792	95,456	208,248	21,045	28.3	7,336	2,521
Louisiana	19	739,703	446,562	286,194	369,521	655,715	84,629	29.7	68,455	23,532
Maryland	1	64,000	18,300	45,677	14,362	60,040	-1,234	-7.9	2,953	53
Michigan	44	1,071,608	683,820	386,911	640,539	1,027,450	98,555	18.2	54,271	3,879
Minnesota	1	7,000	2,000	4,848	2,055	6,903	-89	-4.2	270	0
Mississippi	11	331,677	202,420	121,536	117,702	239,238	22,571	23.7	35,155	8,029
Missouri	1	13,845	3,656	10,189	2,690	12,879	-57	-2.1	425	118
Montana	4	376,225	197,477	179,613	23,190	202,804	-985	-4.1	838	1,702
Nebraska	1	34,850	12,653	22,197	10,667	32,864	1,382	14.9	439	714
New Mexico	2	89,100	59,738	29,362	38,658	68,020	16,747	76.4	2,746	722
New York	26	245,779	127,487	114,763	106,451	221,214	10,766	11.3	15,740	1,480
Ohio	24	575,109	253,750	321,358	188,789	510,148	14,684	8.4	19,046	904
Oklahoma	12	372,191	195,582	176,466	161,964	338,429	23,304	16.8	15,875	5,545
Oregon	8	33,384	18,475	14,909	14,269	29,178	-2,172	-13.2	1,063	1,079
Pennsylvania	49	763,296	427,601	335,510	391,959	727,470	51,990	15.3	41,619	7,581
Tennessee	2	2,400	1,800	878	1,491	2,368	-2	-0.1	0	0
Texas	35	845,081	543,975	295,431	418,819	714,251	104,053	33.1	79,955	20,856
Utah	3	124,509	54,942	69,508	47,110	116,618	2,681	6.0	3,710	1,357
Virginia	2	8,960	4,930	4,100	4,842	8,942	-279	-5.4	380	368
Washington	1	46,900	24,600	22,300	19,911	42,211	-2,485	-11.1	385	3,453
West Virginia	31	531,706	268,803	262,709	225,977	488,686	26,237	13.1	19,606	2,158
Wyoming	9	139,947	58,492	79,383	34,488	113,871	444	1.3	3,350	757
Regions										
East Region	133	2,188,849	1,100,871	1,084,118	932,381	2,016,500	102,164	12.3	99,345	12,543
South Central Region	97	2,637,012	1,553,565	1,066,764	1,191,057	2,257,821	242,724	25.6	211,405	69,828
Midwest Region	125	2,729,923	1,224,986	1,505,171	1,102,826	2,607,997	131,435	13.5	121,738	8,229
Mountain Region	29	906,038	456,056	441,164	205,630	646,793	22,538	12.3	16,347	10,553
Pacific Region	23	684,332	417,041	267,324	292,341	559,665	28,257	10.7	11,807	13,576
Total Lower 48 States	407	9,146,154	4,752,519	4,364,541	3,724,235	8,088,775	527,118	16.5	460,642	114,729
U.S. Total	412	9,229,747	4,820,434	4,378,738	3,760,632	8,139,370	524,377	16.2	461,292	115,514

^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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	NA	24,442	17,504	966	685	649	844	840
Alaska	13,301	13,899	15,110	1,448	823	456	413	532
Arizona	32,763	26,169	26,422	1,779	1,156	1,075	1,208	1,492
Arkansas	NA	25,207	17,446	899	596	625	612	606
California	359,372	322,389	334,525	25,539	18,473	18,480	21,383	21,302
Colorado	104,006	89,653	85,015	10,365	3,113	2,727	3,012	3,927
Connecticut	39,201	39,063	35,353	2,059	1,112	973	1,068	1,395
Delaware	8,283	8,835	6,936	285	176	166	182	189
District of Columbia	NA	9,409	8,587	NA	256	275	231	295
Florida	13,519	13,906	11,892	942	892	827	819	931
Georgia	NA	94,508	76,823	6,069	3,924	4,069	NA	4,233
Hawaii	488	494	476	45	43	44	47	44
Idaho	21,262	18,546	20,457	2,752	843	539	564	713
Illinois	320,153	316,685	263,836	21,141	7,831	7,298	7,777	9,706
Indiana	103,647	103,028	82,945	6,700	2,416	2,013	2,170	2,561
Iowa	NA	51,368	42,424	4,278	1,088	NA	NA	1,379
Kansas	49,376	47,260	37,003	3,884	993	896	1,162	1,173
Kentucky	33,583	36,736	28,003	1,825	739	609	790	906
Louisiana	27,645	27,481	20,159	1,562	1,268	1,294	1,096	1,255
Maine	2,299	2,202	1,963	140	64	49	49	82
Maryland	57,185	63,580	51,930	2,160	1,514	1,450	1,541	1,715
Massachusetts	88,399	97,568	86,126	4,438	2,619	2,346	2,437	2,907
Michigan	250,416	236,469	204,100	19,418	5,852	5,285	5,724	7,291
Minnesota	107,185	103,593	86,805	9,000	2,720	2,320	2,268	3,159
Mississippi	16,249	17,269	12,316	859	511	562	555	512
Missouri	80,927	79,344	57,259	5,606	1,641	1,701	1,787	1,978
Montana	17,313	16,355	15,319	1,299	434	263	510	811
Nebraska	30,480	31,137	24,129	1,599	644	704	768	903
Nevada	35,975	30,856	31,622	2,378	1,489	1,284	1,424	1,770
New Hampshire	5,729	5,763	5,116	241	178	143	143	173
New Jersey	168,194	184,199	156,893	8,514	4,867	4,095	4,769	6,467
New Mexico	26,461	23,323	21,677	1,859	854	858	897	975
New York	352,460	360,576	314,156	17,779	10,405	9,858	10,340	12,623
North Carolina	NA	49,853	37,435	1,769	1,023	1,016	977	NA
North Dakota	10,201	9,255	7,688	675	210	197	190	248
Ohio	210,232	215,117	174,486	12,243	4,896	4,325	4,877	5,403
Oklahoma	46,954	46,417	34,148	1,570	1,057	1,071	1,199	1,460
Oregon	35,554	29,991	34,301	4,367	1,420	969	972	1,310
Pennsylvania	175,197	183,980	153,583	8,029	4,233	3,960	4,043	4,891
Rhode Island	14,444	14,977	12,886	938	426	362	344	446
South Carolina	19,819	20,926	15,737	726	559	496	511	550
South Dakota	NA	10,597	8,688	738	212	206	NA	273
Tennessee	47,219	52,598	35,747	1,710	1,152	920	1,113	1,199
Texas	169,161	167,512	125,257	7,174	5,320	5,479	6,078	6,475
Utah	NA	46,362	46,704	3,369	1,788	1,448	1,872	1,895
Vermont	3,102	3,054	2,621	163	88	80	80	126
Virginia	59,195	65,804	52,736	2,247	1,493	1,477	1,467	1,803
Washington	65,552	60,360	65,486	8,199	2,612	1,697	1,966	2,406
West Virginia	17,176	19,110	15,301	1,106	304	350	338	319
Wisconsin	110,190	105,472	90,473	8,909	2,686	2,324	2,340	3,092
Wyoming	11,099	9,377	9,471	646	222	219	285	578
Total	3,668,884	3,632,075	3,123,074	232,653	109,919	101,648	113,482	128,761

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		
	May	April	March	February	January	Total	December	November
Alabama	NA	1,876	3,913	3,736	7,854	34,726	6,159	4,124
Alaska	983	1,444	2,128	2,268	2,806	18,607	2,612	2,096
Arizona	2,060	2,713	5,571	7,339	8,370	35,125	5,784	3,171
Arkansas	1,261	1,936	NA	5,003	6,471	34,979	5,629	4,142
California	30,620	30,603	51,657	74,122	67,193	423,915	63,275	38,251
Colorado	7,639	9,608	19,495	20,708	23,411	128,603	22,909	16,041
Connecticut	2,376	3,953	7,509	8,538	10,219	53,100	7,970	6,067
Delaware	358	680	1,708	2,058	2,482	12,076	1,879	1,362
District of Columbia	400	755	1,673	NA	2,128	13,112	2,091	1,612
Florida	1,198	1,567	1,690	2,184	2,468	17,092	1,993	1,193
Georgia	4,744	7,068	15,052	15,624	25,307	133,085	21,401	17,176
Hawaii	51	51	55	51	58	590	49	47
Idaho	1,112	1,846	3,444	4,585	4,863	27,487	5,150	3,791
Illinois	18,784	30,333	60,594	71,528	85,161	438,218	63,598	57,935
Indiana	4,788	8,730	20,910	23,488	29,870	144,207	21,714	19,465
Iowa	2,718	4,667	10,070	12,648	14,321	70,919	10,595	8,957
Kansas	1,902	3,244	9,315	12,853	13,956	67,127	10,656	9,211
Kentucky	1,190	2,253	7,114	7,515	10,642	51,476	7,804	6,936
Louisiana	1,612	2,531	4,396	5,086	7,545	37,831	5,968	4,381
Maine	166	258	420	508	563	3,079	492	385
Maryland	2,871	3,722	11,552	14,367	16,293	86,397	12,717	10,100
Massachusetts	5,756	9,017	17,542	18,391	22,947	130,296	18,853	13,875
Michigan	13,926	25,368	48,086	53,095	66,370	326,962	48,210	42,283
Minnesota	6,554	10,236	18,971	25,088	26,871	141,400	20,409	17,398
Mississippi	628	1,253	3,191	3,096	5,083	24,514	4,152	3,093
Missouri	3,294	5,349	15,804	20,179	23,588	113,719	18,187	16,187
Montana	1,056	1,547	3,259	4,638	3,497	22,619	3,491	2,773
Nebraska	1,747	2,531	6,203	7,803	7,579	42,379	6,370	4,872
Nevada	2,209	2,961	6,197	7,914	8,349	41,837	6,929	4,052
New Hampshire	358	581	1,076	1,275	1,561	8,134	1,321	1,050
New Jersey	9,563	14,442	33,538	37,529	44,410	247,585	36,799	26,587
New Mexico	1,573	2,317	4,064	5,825	7,239	34,438	6,257	4,857
New York	22,559	34,790	71,056	73,087	89,963	485,693	69,121	55,996
North Carolina	NA	3,086	9,523	9,961	15,237	73,262	12,929	10,479
North Dakota	609	973	1,872	2,691	2,537	12,681	1,819	1,607
Ohio	10,332	19,123	43,419	47,577	58,038	301,199	45,534	40,549
Oklahoma	2,092	3,363	9,111	12,120	13,911	67,306	11,776	9,113
Oregon	1,710	3,367	6,004	8,059	7,377	42,625	7,246	5,388
Pennsylvania	8,511	14,539	35,708	40,517	50,766	252,722	37,952	30,789
Rhode Island	864	1,382	2,799	3,079	3,803	20,523	3,090	2,456
South Carolina	590	1,685	3,718	4,368	6,616	30,731	5,846	3,960
South Dakota	707	1,103	2,029	2,663	2,561	14,280	2,149	1,534
Tennessee	1,616	3,440	10,037	10,360	15,672	74,567	13,309	8,660
Texas	7,747	16,634	32,628	37,367	44,258	227,000	36,356	23,133
Utah	NA	3,703	8,592	10,954	12,884	67,415	12,146	8,907
Vermont	220	375	562	666	742	4,081	592	436
Virginia	1,915	4,425	11,618	14,333	18,419	89,036	14,342	8,890
Washington	3,182	6,171	10,451	15,613	13,254	83,567	13,155	10,052
West Virginia	663	1,375	3,899	3,731	5,091	26,256	4,011	3,135
Wisconsin	6,972	11,388	19,479	24,240	28,761	144,521	20,397	18,652
Wyoming	948	1,283	2,175	2,317	2,426	13,142	2,193	1,572
Total	211,616	327,642	686,453	804,921	951,789	4,996,238	765,385	598,777

See footnotes at end of table.

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

(million cubic feet) – continued

State	2018							
	October	September	August	July	June	May	April	March
Alabama	1,014	663	701	694	725	1,116	2,500	3,745
Alaska	1,319	755	591	500	672	1,032	1,483	2,219
Arizona	1,673	1,132	1,050	1,123	1,330	1,732	2,404	4,686
Arkansas	1,293	607	564	545	643	987	2,688	4,337
California	22,607	19,154	15,058	19,784	21,806	26,759	32,039	53,115
Colorado	8,647	3,145	2,676	2,516	2,639	5,558	9,775	13,813
Connecticut	2,515	1,052	951	1,066	1,283	2,010	5,285	7,422
Delaware	402	157	179	179	200	372	1,178	2,092
District of Columbia	528	264	286	281	267	377	994	1,930
Florida	855	845	758	818	992	1,155	1,576	1,745
Georgia	6,319	3,894	4,105	3,928	3,981	4,736	8,844	15,721
Hawaii	44	45	47	46	50	49	52	52
Idaho	1,750	745	575	555	665	812	1,902	3,218
Illinois	23,490	8,068	7,465	7,517	8,979	12,425	43,889	55,219
Indiana	7,278	2,477	2,110	2,210	2,013	3,687	13,648	19,962
Iowa	3,747	1,299	1,073	958	1,187	1,840	7,085	8,658
Kansas	3,197	1,436	1,121	1,028	1,327	1,683	5,824	7,132
Kentucky	2,558	856	755	700	759	1,220	4,229	6,913
Louisiana	1,717	1,265	1,083	1,170	1,204	1,527	2,355	2,981
Maine	171	61	55	50	75	116	277	394
Maryland	3,593	1,521	1,466	1,559	1,859	3,410	7,349	13,703
Massachusetts	5,128	2,645	2,364	2,486	2,835	4,488	12,333	18,654
Michigan	21,590	6,018	5,879	5,128	5,594	8,804	33,126	45,563
Minnesota	9,051	2,826	2,457	2,194	2,934	4,376	13,487	17,014
Mississippi	934	496	554	506	495	674	1,564	2,278
Missouri	5,259	1,739	1,658	1,662	1,782	2,289	10,100	13,513
Montana	1,748	484	397	371	572	889	1,936	2,594
Nebraska	2,114	687	608	767	790	1,545	4,215	5,055
Nevada	2,031	1,408	1,154	1,256	1,612	2,003	2,891	5,723
New Hampshire	270	179	156	143	181	239	768	1,144
New Jersey	11,138	4,872	4,473	4,944	6,134	7,904	23,748	38,286
New Mexico	1,749	808	847	788	798	1,117	2,020	4,389
New York	23,307	10,718	9,912	11,062	12,523	19,184	48,644	68,622
North Carolina	2,409	977	1,005	923	1,015	1,307	4,514	10,994
North Dakota	945	194	171	156	234	598	1,233	1,658
Ohio	17,158	5,106	4,728	4,782	4,692	6,013	30,107	43,084
Oklahoma	1,851	1,196	1,116	1,060	1,161	1,686	5,504	6,466
Oregon	2,639	1,234	897	945	1,299	1,518	3,483	5,408
Pennsylvania	12,493	4,393	4,124	4,167	4,544	6,673	23,175	38,775
Rhode Island	1,278	377	393	386	428	476	1,956	3,031
South Carolina	893	474	483	462	489	706	1,873	3,820
South Dakota	934	215	196	210	252	630	1,444	1,814
Tennessee	2,050	1,127	928	1,102	1,212	2,210	6,069	8,392
Texas	8,067	5,131	4,988	4,909	5,448	8,213	13,482	24,582
Utah	4,541	1,646	1,553	1,595	2,030	2,311	4,463	9,335
Vermont	182	87	75	83	113	185	439	536
Virginia	3,464	1,666	1,547	1,705	1,591	2,316	6,767	13,881
Washington	6,120	2,610	1,585	2,010	2,449	2,831	7,325	11,113
West Virginia	1,311	348	297	330	385	592	2,439	4,242
Wisconsin	8,780	2,943	2,343	2,325	2,659	4,026	15,087	18,462
Wyoming	875	259	207	221	323	617	1,254	1,749
Total	255,027	112,304	99,768	105,902	119,231	169,022	440,822	659,232

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				
	February	January	Total	December	November	October	September	August
Alabama	3,744	9,540	26,338	6,192	2,642	1,190	739	651
Alaska	2,620	2,708	20,247	2,525	2,613	1,579	892	601
Arizona	5,225	5,815	32,821	4,269	2,130	1,501	1,146	1,011
Arkansas	5,216	8,329	25,704	5,716	2,542	931	585	553
California	54,556	57,512	431,005	62,530	33,950	23,670	17,775	18,027
Colorado	19,593	21,291	118,585	21,055	12,514	8,691	3,557	2,841
Connecticut	6,900	10,580	48,431	8,288	4,790	1,430	1,091	1,025
Delaware	1,655	2,421	9,896	2,007	953	249	172	158
District of Columbia	1,813	2,669	11,904	2,383	934	410	299	287
Florida	2,054	3,108	14,934	1,816	1,226	924	823	751
Georgia	12,259	30,720	111,248	22,326	12,100	6,715	4,100	4,043
Hawaii	51	58	572	50	47	43	44	42
Idaho	4,074	4,249	28,799	5,273	3,069	2,147	836	530
Illinois	65,052	84,581	377,511	69,533	44,142	17,826	8,007	8,092
Indiana	20,043	29,599	123,847	26,465	14,437	5,543	2,493	2,016
Iowa	11,398	14,124	60,362	11,284	6,654	2,952	1,127	1,105
Kansas	11,039	13,474	54,445	10,771	6,672	2,239	1,167	1,064
Kentucky	6,660	12,087	43,253	9,945	5,305	2,019	975	784
Louisiana	4,041	10,138	29,074	6,254	2,661	1,537	1,221	1,208
Maine	411	592	2,748	520	264	85	58	54
Maryland	11,360	17,761	75,789	15,141	8,718	2,426	1,732	1,326
Massachusetts	21,076	25,559	121,181	22,904	12,151	4,115	2,694	2,497
Michigan	44,146	60,620	299,158	58,024	37,035	14,512	7,041	5,408
Minnesota	22,845	26,409	123,898	22,061	15,032	6,526	2,556	2,510
Mississippi	2,632	7,135	18,446	4,142	1,988	882	622	553
Missouri	16,743	24,600	86,865	19,243	10,363	2,311	1,794	1,678
Montana	3,652	3,712	21,481	3,627	2,535	1,587	637	349
Nebraska	7,113	8,245	34,069	5,967	3,973	1,404	619	434
Nevada	6,123	6,655	40,911	6,316	2,973	2,035	1,476	1,153
New Hampshire	1,048	1,636	7,331	1,428	787	257	155	158
New Jersey	31,553	51,148	221,608	43,097	21,619	8,807	4,338	4,276
New Mexico	4,603	6,205	29,993	5,445	2,871	1,517	866	818
New York	64,908	91,695	432,564	75,737	42,671	15,457	10,956	10,217
North Carolina	7,889	18,821	59,933	14,460	8,039	2,110	1,096	994
North Dakota	1,962	2,102	11,015	1,938	1,388	669	235	177
Ohio	39,319	60,128	258,699	53,038	31,175	12,203	5,670	5,041
Oklahoma	11,715	14,662	51,069	11,996	4,925	1,511	1,260	1,298
Oregon	6,335	6,233	47,841	8,214	5,326	3,149	1,191	778
Pennsylvania	33,289	52,347	218,734	42,299	22,852	7,875	4,601	3,878
Rhode Island	2,521	4,130	18,421	3,485	2,051	628	386	407
South Carolina	3,185	8,540	24,558	5,845	2,976	835	541	482
South Dakota	2,300	2,604	12,146	2,176	1,282	684	244	221
Tennessee	9,746	19,761	56,661	14,083	6,831	1,899	1,253	983
Texas	34,744	57,947	164,147	25,659	13,231	7,769	5,885	5,436
Utah	8,393	10,495	66,700	13,023	6,973	4,527	1,821	1,471
Vermont	582	773	3,509	587	301	111	87	78
Virginia	11,379	21,489	76,904	16,076	8,093	2,857	1,690	1,587
Washington	12,079	12,237	91,028	14,960	10,582	6,464	2,441	1,749
West Virginia	3,644	5,522	22,385	4,473	2,610	1,014	485	304
Wisconsin	22,632	26,214	131,018	25,210	15,335	6,281	2,739	2,503
Wyoming	1,896	1,975	12,553	1,801	1,281	951	266	212
Total	689,815	980,953	4,412,341	821,656	467,610	205,054	114,486	103,816

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017						
	July	June	May	April	March	February	January
Alabama	674	713	925	1,362	3,177	3,228	4,845
Alaska	552	656	983	1,472	2,666	2,521	3,188
Arizona	1,101	1,325	1,782	2,358	3,703	5,840	6,656
Arkansas	570	620	952	1,167	2,952	3,376	5,740
California	19,094	20,886	27,253	29,707	40,607	53,979	83,528
Colorado	2,657	2,955	6,264	8,839	11,823	14,666	22,722
Connecticut	1,075	1,380	2,231	3,529	7,844	7,199	8,549
Delaware	151	207	350	612	1,689	1,397	1,951
District of Columbia	293	340	518	616	1,796	1,679	2,348
Florida	778	880	1,060	1,392	1,600	1,725	1,958
Georgia	3,936	4,102	4,933	5,704	12,823	12,391	18,075
Hawaii	43	49	44	49	52	52	58
Idaho	518	599	1,114	2,016	2,669	3,829	6,199
Illinois	8,673	9,182	16,983	23,309	52,136	47,529	72,098
Indiana	2,096	2,415	5,289	7,076	17,160	15,350	23,508
Iowa	1,028	1,276	2,437	4,047	8,061	8,380	12,009
Kansas	1,010	1,229	1,777	3,063	6,449	6,663	12,342
Kentucky	719	777	1,188	2,032	5,648	5,597	8,265
Louisiana	1,232	1,288	1,430	1,706	2,700	2,908	4,930
Maine	52	76	135	235	426	395	447
Maryland	1,651	1,789	2,993	3,402	11,443	11,029	14,139
Massachusetts	2,608	3,299	5,950	8,696	20,222	16,531	19,515
Michigan	5,123	6,056	13,699	18,831	42,975	38,430	52,023
Minnesota	2,276	2,997	5,044	8,308	16,657	16,507	23,423
Mississippi	518	526	728	807	2,153	2,110	3,417
Missouri	1,597	1,904	3,319	4,432	10,298	10,986	18,939
Montana	343	474	902	1,608	2,231	2,978	4,211
Nebraska	673	857	1,512	2,231	4,156	4,681	7,563
Nevada	1,310	1,600	2,022	2,794	4,396	6,256	8,578
New Hampshire	137	176	338	478	1,184	999	1,235
New Jersey	4,857	6,185	9,356	14,798	34,082	30,429	39,766
New Mexico	839	951	1,409	2,085	2,973	4,196	6,024
New York	10,732	13,858	20,619	30,910	68,073	60,363	72,971
North Carolina	1,135	1,039	1,514	2,309	8,165	7,129	11,943
North Dakota	155	190	347	737	1,475	1,577	2,126
Ohio	4,711	5,336	9,987	13,988	37,420	33,215	46,915
Oklahoma	1,172	1,300	1,879	2,737	4,756	6,446	11,789
Oregon	866	1,326	2,148	3,766	5,136	6,406	9,534
Pennsylvania	4,196	5,099	9,495	13,739	33,765	30,972	39,962
Rhode Island	414	462	798	1,192	3,126	2,513	2,961
South Carolina	559	526	657	1,177	3,265	2,916	4,779
South Dakota	195	265	482	905	1,539	1,668	2,486
Tennessee	1,008	1,168	1,721	2,363	6,888	7,217	11,248
Texas	6,000	5,821	7,747	9,413	16,023	22,127	39,036
Utah	1,680	2,227	2,890	4,976	5,704	7,427	13,980
Vermont	82	131	187	311	570	507	556
Virginia	1,658	1,798	2,501	3,795	11,067	10,403	15,380
Washington	1,802	2,226	4,046	7,033	10,426	12,452	16,845
West Virginia	356	325	758	1,372	3,489	3,118	4,081
Wisconsin	2,306	2,795	5,967	8,439	18,653	17,252	23,539
Wyoming	211	372	796	1,001	1,520	1,797	2,344
Total	107,421	124,036	199,459	278,925	579,810	579,341	830,726

^{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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	NA	19,450	16,381	1,670	1,122	1,071	1,305	1,269
Alaska	NA	10,962	11,736	1,117	NA	NA	NA	NA
Arizona	29,990	24,749	24,980	2,604	2,094	2,067	2,135	2,292
Arkansas	NA	43,165	36,738	3,666	2,952	2,972	2,981	2,850
California	204,223	196,292	187,427	21,013	16,125	17,165	15,979	15,535
Colorado	46,757	40,150	38,720	4,336	1,766	1,687	1,797	2,222
Connecticut	44,614	44,527	39,865	3,588	2,637	2,568	2,599	2,415
Delaware	12,141	11,777	9,616	1,012	784	769	788	738
District of Columbia	NA	12,703	11,986	NA	731	840	661	678
Florida	51,959	52,365	50,021	4,812	4,695	4,667	4,537	4,701
Georgia	NA	41,144	35,433	2,415	2,077	2,236	NA	2,254
Hawaii	2,200	2,172	2,039	215	214	230	235	202
Idaho	15,513	13,982	14,928	2,121	995	767	761	770
Illinois	185,009	184,513	157,719	14,867	8,336	8,231	8,193	8,548
Indiana	65,682	64,144	53,197	6,249	2,765	2,362	2,367	2,639
Iowa	NA	42,557	36,019	4,272	1,743	1,757	NA	1,755
Kansas	30,603	30,216	25,926	2,741	1,544	1,489	1,753	1,794
Kentucky	26,838	28,520	22,779	1,941	1,207	983	1,223	1,238
Louisiana	25,960	26,729	21,746	2,536	2,065	2,317	1,984	1,985
Maine	7,659	7,048	6,467	745	331	281	270	337
Maryland	55,127	60,344	53,470	3,726	3,262	3,385	3,371	3,150
Massachusetts	89,087	88,926	79,903	6,929	4,895	3,814	4,034	3,857
Michigan	141,912	135,672	119,294	10,858	5,380	5,664	5,067	6,280
Minnesota	86,132	84,503	71,857	7,315	3,099	2,844	3,108	3,342
Mississippi	15,586	15,779	13,188	1,442	951	1,039	1,024	935
Missouri	51,491	51,861	41,765	4,467	2,126	2,205	2,197	2,211
Montana	NA	19,941	17,206	1,786	1,120	922	1,060	1,205
Nebraska	NA	26,756	21,592	1,981	1,067	NA	1,278	1,293
Nevada	27,290	25,416	25,498	2,552	1,854	1,762	1,818	1,970
New Hampshire	7,313	7,252	6,359	387	294	234	221	248
New Jersey	114,173	127,998	111,601	7,841	5,468	5,219	6,882	5,233
New Mexico	NA	18,164	17,361	2,557	1,130	NA	936	1,139
New York	246,180	252,873	232,983	16,626	14,770	14,805	14,780	13,764
North Carolina	NA	43,748	39,397	3,297	2,434	2,289	2,114	NA
North Dakota	11,877	10,492	9,350	860	398	367	342	361
Ohio	131,981	132,577	110,486	9,115	5,224	4,985	5,164	5,293
Oklahoma	35,980	34,379	27,455	2,616	1,606	1,571	1,650	1,782
Oregon	24,729	21,363	23,673	2,795	1,354	1,049	1,013	1,229
Pennsylvania	122,577	124,490	106,391	7,773	5,315	5,085	4,908	5,118
Rhode Island	8,985	9,357	8,023	582	288	238	228	300
South Carolina	19,061	19,477	17,479	1,642	1,344	1,313	1,283	1,341
South Dakota	NA	9,339	7,878	731	366	338	NA	347
Tennessee	42,025	43,701	34,565	3,279	2,431	2,195	2,362	2,400
Texas	172,513	166,887	131,583	13,175	11,693	12,003	12,052	12,130
Utah	NA	30,044	29,369	2,704	1,485	1,205	1,545	1,427
Vermont	5,590	5,463	4,521	529	371	358	356	328
Virginia	54,476	57,816	50,782	3,701	2,999	3,391	3,040	3,107
Washington	46,062	43,303	45,435	5,498	2,607	2,216	2,318	2,622
West Virginia	17,902	19,173	16,606	1,534	972	1,035	999	966
Wisconsin	75,756	74,815	65,635	6,286	3,165	3,058	2,763	3,319
Wyoming	10,415	10,426	10,832	678	342	348	420	607
Total	2,685,043	2,669,498	2,355,261	217,868	144,711	142,191	143,987	144,783

See footnotes at end of table.

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

(million cubic feet) – continued

State	2019					Total	2018	
	May	April	March	February	January		December	November
Alabama	NA	1,572	2,838	2,266	4,864	26,636	3,658	3,528
Alaska	NA	NA	NA	NA	NA	14,489	2,017	1,509
Arizona	2,666	2,881	3,873	4,475	4,903	31,812	4,013	3,051
Arkansas	3,465	4,046	NA	6,099	7,397	55,453	6,589	5,699
California	18,877	17,629	23,723	30,679	27,498	248,012	28,627	23,093
Colorado	3,691	4,495	8,393	8,670	9,700	55,962	9,278	6,535
Connecticut	3,109	4,185	7,088	7,476	8,948	58,184	7,318	6,339
Delaware	836	916	1,888	1,934	2,477	15,593	1,978	1,839
District of Columbia	838	992	1,923	2,155	2,440	16,621	2,082	1,837
Florida	4,990	5,290	5,825	5,812	6,630	63,806	6,217	5,224
Georgia	2,502	3,376	6,354	6,337	10,058	56,539	8,483	6,912
Hawaii	221	221	216	210	237	2,601	217	212
Idaho	962	1,310	2,164	2,736	2,926	19,113	2,919	2,212
Illinois	12,190	18,472	31,268	34,419	40,487	242,005	30,920	26,572
Indiana	3,276	5,298	11,760	12,776	16,189	86,188	11,733	10,311
Iowa	2,397	3,749	7,164	8,586	9,696	56,836	7,497	6,782
Kansas	1,938	1,989	4,724	6,252	6,379	40,239	5,720	4,303
Kentucky	1,378	1,938	4,895	5,172	6,864	38,472	5,177	4,775
Louisiana	2,107	2,383	3,212	2,905	4,467	34,843	3,863	4,252
Maine	564	809	1,250	1,434	1,638	9,586	1,370	1,169
Maryland	3,977	4,513	9,248	9,075	11,420	77,310	9,043	7,923
Massachusetts	6,118	8,865	14,362	16,385	19,830	118,779	15,503	14,351
Michigan	9,954	14,862	25,474	27,991	30,382	180,341	25,155	19,514
Minnesota	5,144	9,240	14,969	18,363	18,709	111,800	15,163	12,133
Mississippi	961	1,313	2,303	2,236	3,382	21,032	2,767	2,486
Missouri	2,942	4,075	8,681	10,619	11,968	69,175	9,439	7,876
Montana	NA	2,036	3,458	4,280	3,522	26,308	3,542	2,825
Nebraska	1,873	2,223	4,478	5,784	5,549	35,349	4,730	3,863
Nevada	2,303	2,558	3,701	4,272	4,499	32,772	4,165	3,191
New Hampshire	460	739	1,326	1,513	1,890	10,129	1,561	1,316
New Jersey	7,225	10,678	19,184	21,797	24,647	167,351	22,422	16,931
New Mexico	1,500	1,698	2,663	3,469	4,409	25,948	4,748	3,036
New York	16,959	23,071	39,410	40,267	51,727	330,213	40,303	37,037
North Carolina	2,559	3,339	6,684	6,516	9,703	57,989	7,544	6,696
North Dakota	738	1,146	2,106	2,830	2,729	14,454	2,083	1,879
Ohio	7,426	12,296	24,419	25,458	32,601	178,914	24,458	21,880
Oklahoma	2,187	2,896	5,981	7,399	8,292	46,945	7,045	5,521
Oregon	1,510	2,389	3,954	4,938	4,498	28,997	4,399	3,235
Pennsylvania	7,109	10,472	21,457	23,393	31,947	165,119	21,972	18,657
Rhode Island	551	920	1,733	1,844	2,301	12,732	1,904	1,471
South Carolina	1,509	1,721	2,663	2,469	3,776	25,316	2,912	2,927
South Dakota	633	975	1,665	2,216	2,111	12,573	1,819	1,416
Tennessee	2,465	3,151	6,759	6,603	10,379	58,567	8,157	6,708
Texas	12,819	18,066	24,662	26,432	29,481	214,150	25,168	22,095
Utah	NA	2,509	5,163	6,444	7,209	42,367	7,093	5,229
Vermont	317	492	811	900	1,129	7,356	994	899
Virginia	3,527	4,453	8,585	9,449	12,225	74,282	9,389	7,077
Washington	3,065	4,525	6,737	8,556	7,917	57,014	7,672	6,039
West Virginia	1,169	1,623	3,026	2,877	3,700	25,059	3,125	2,761
Wisconsin	4,873	7,716	12,987	14,693	16,896	100,026	13,393	11,818
Wyoming	915	1,175	1,845	1,994	2,091	13,787	1,913	1,448
Total	185,746	248,512	426,794	473,606	556,845	3,515,143	459,253	386,391

See footnotes at end of table.

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

(million cubic feet) – continued

State	2018							
	October	September	August	July	June	May	April	March
Alabama	1,709	1,091	1,162	1,108	1,101	1,142	1,902	2,832
Alaska	993	636	558	438	593	819	1,197	1,739
Arizona	2,163	1,820	1,881	1,930	1,977	2,214	2,448	3,269
Arkansas	4,104	3,032	3,071	2,881	2,816	3,058	4,398	5,571
California	20,372	16,863	16,398	15,507	16,142	17,524	18,730	25,288
Colorado	3,907	1,650	1,623	1,498	1,658	2,612	4,343	5,948
Connecticut	4,204	2,676	2,770	2,573	2,474	2,569	5,257	6,779
Delaware	1,222	796	766	687	684	691	1,208	1,874
District of Columbia	1,314	693	909	771	873	681	1,267	2,008
Florida	4,678	4,681	4,525	4,576	4,881	5,074	5,440	5,992
Georgia	3,127	2,114	2,172	2,168	2,149	2,460	3,978	6,407
Hawaii	220	204	226	223	212	209	216	214
Idaho	1,499	938	775	714	763	810	1,321	2,086
Illinois	15,975	8,853	8,567	8,607	8,499	10,257	23,083	28,305
Indiana	6,007	2,828	2,317	2,299	2,221	3,094	7,551	10,828
Iowa	3,961	1,806	1,744	1,658	1,892	2,303	5,192	6,397
Kansas	2,760	1,756	1,833	1,635	1,671	1,734	3,522	3,786
Kentucky	2,453	1,232	1,102	1,034	1,027	1,366	3,043	4,713
Louisiana	2,784	2,331	2,164	2,112	2,011	2,139	2,636	2,976
Maine	673	324	275	273	326	415	832	1,162
Maryland	5,938	3,525	3,586	3,417	3,924	4,495	6,408	9,651
Massachusetts	6,862	4,439	4,100	3,705	4,043	4,347	10,388	15,258
Michigan	10,983	4,896	5,758	5,171	5,272	8,384	17,926	23,452
Minnesota	7,478	3,304	2,873	2,890	3,176	4,332	11,233	13,380
Mississippi	1,449	931	995	907	915	951	1,480	1,919
Missouri	3,976	2,292	2,144	2,090	2,144	2,615	6,155	8,082
Montana	1,861	1,171	928	749	843	1,245	2,355	3,344
Nebraska	2,272	1,263	1,147	1,281	1,277	1,724	3,265	3,838
Nevada	2,290	1,873	1,733	1,739	1,916	2,219	2,593	3,629
New Hampshire	451	290	248	223	267	304	895	1,370
New Jersey	8,526	5,670	6,205	6,293	6,318	7,109	16,779	22,546
New Mexico	2,153	1,031	1,122	867	1,000	1,143	1,433	2,829
New York	23,421	15,504	15,077	15,045	14,584	14,963	29,197	39,340
North Carolina	3,967	2,373	2,077	2,104	1,996	2,338	4,621	7,814
North Dakota	1,140	346	322	291	369	552	1,410	1,851
Ohio	11,728	5,321	5,201	4,835	5,141	4,952	16,486	24,112
Oklahoma	2,480	1,618	1,576	1,462	1,577	1,827	3,714	4,461
Oregon	1,957	1,180	993	970	1,257	1,362	2,374	3,485
Pennsylvania	11,004	5,396	5,161	4,872	5,087	5,342	14,206	24,139
Rhode Island	814	309	287	292	291	315	1,187	1,889
South Carolina	1,908	1,219	1,291	1,260	1,331	1,474	1,736	3,036
South Dakota	859	335	296	300	346	564	1,237	1,505
Tennessee	3,531	2,282	2,073	2,253	2,424	2,617	4,615	6,239
Texas	13,863	11,512	11,507	10,398	10,959	13,463	15,771	22,245
Utah	3,055	1,357	1,223	1,286	1,484	1,709	2,902	5,707
Vermont	626	392	363	353	353	262	623	783
Virginia	5,389	3,288	3,253	3,410	2,971	3,229	5,366	10,128
Washington	4,251	2,570	2,316	2,167	2,731	2,861	4,579	7,092
West Virginia	1,634	1,004	1,061	999	1,045	1,132	2,224	3,263
Wisconsin	6,488	3,205	2,892	2,896	2,925	3,992	9,889	11,691
Wyoming	870	406	348	376	489	797	1,368	1,857
Total	237,349	146,628	142,995	137,594	142,423	163,790	301,980	418,112

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				
	February	January	Total	December	November	October	September	August
Alabama	2,187	5,216	22,915	3,930	2,604	1,996	1,239	1,108
Alaska	1,968	2,021	15,544	1,977	1,831	1,189	709	550
Arizona	3,337	3,711	31,212	3,681	2,551	2,167	1,917	1,875
Arkansas	6,098	8,136	47,496	6,403	4,355	3,687	2,920	2,900
California	24,163	25,305	237,352	28,182	21,743	19,397	16,068	16,202
Colorado	8,103	8,808	52,735	8,628	5,386	3,781	1,872	1,715
Connecticut	6,483	8,741	52,513	7,412	5,236	2,796	2,489	2,419
Delaware	1,698	2,152	13,380	2,310	1,455	831	648	570
District of Columbia	1,865	2,324	16,040	2,671	1,383	1,001	815	825
Florida	5,498	7,020	61,313	6,026	5,266	4,857	4,393	4,400
Georgia	5,117	11,453	49,193	8,535	5,224	3,325	2,232	2,213
Hawaii	203	243	2,446	203	204	200	198	202
Idaho	2,449	2,627	19,777	2,924	1,924	1,495	944	732
Illinois	32,969	39,396	215,936	35,926	22,290	13,693	8,817	8,053
Indiana	11,042	15,957	75,312	13,712	8,404	4,996	2,765	2,390
Iowa	7,928	9,676	49,710	7,870	5,820	3,597	1,802	1,579
Kansas	5,279	6,240	34,612	5,348	3,338	2,298	1,655	1,716
Kentucky	4,686	7,862	32,796	6,256	3,761	2,045	1,379	1,137
Louisiana	2,623	4,952	28,322	3,928	2,647	2,200	1,796	1,907
Maine	1,175	1,591	8,925	1,518	939	382	299	290
Maryland	8,194	11,205	72,279	11,513	7,296	3,865	3,251	3,266
Massachusetts	17,003	18,782	109,470	17,852	11,715	5,511	4,291	4,121
Michigan	23,819	30,009	162,634	26,443	16,897	8,274	5,954	5,410
Minnesota	17,340	18,497	99,756	16,760	11,139	5,491	3,065	2,865
Mississippi	1,988	4,242	17,643	2,697	1,758	1,461	1,011	979
Missouri	9,917	12,446	57,903	10,274	5,864	2,812	2,361	2,290
Montana	3,758	3,685	23,374	3,524	2,643	1,683	1,010	685
Nebraska	5,102	5,587	29,018	4,389	3,037	1,689	1,005	804
Nevada	3,626	3,797	32,200	4,043	2,658	2,300	1,902	1,704
New Hampshire	1,269	1,934	9,078	1,685	1,034	388	244	256
New Jersey	20,716	27,835	148,948	24,084	13,262	8,961	6,616	4,869
New Mexico	2,678	3,908	23,624	3,968	2,295	1,846	1,131	1,120
New York	37,166	48,575	310,316	45,967	31,367	16,696	14,706	14,857
North Carolina	5,830	10,627	53,726	8,508	5,821	3,906	2,763	2,709
North Dakota	2,129	2,083	12,957	2,012	1,594	875	461	353
Ohio	22,234	32,566	156,979	28,916	17,577	9,163	5,499	5,106
Oklahoma	7,162	8,502	37,833	6,831	3,547	2,110	1,581	1,566
Oregon	3,828	3,957	31,763	4,918	3,172	2,158	1,147	851
Pennsylvania	19,808	29,474	145,912	22,255	17,266	7,822	4,991	4,723
Rhode Island	1,582	2,391	11,338	2,161	1,154	447	252	256
South Carolina	2,264	3,959	22,931	3,089	2,363	1,783	1,315	1,302
South Dakota	1,872	2,025	10,813	1,755	1,179	705	367	309
Tennessee	6,306	11,362	49,042	8,867	5,610	3,317	2,387	2,120
Texas	24,246	32,922	164,811	19,312	13,916	12,125	10,263	10,379
Utah	5,146	6,175	41,264	7,489	4,406	2,792	1,435	1,197
Vermont	710	998	6,205	932	752	401	342	317
Virginia	7,803	12,978	68,162	10,467	6,914	4,275	3,453	3,283
Washington	7,243	7,494	60,096	8,464	6,197	4,296	2,514	2,172
West Virginia	2,854	3,959	22,421	3,532	2,283	1,386	1,078	1,019
Wisconsin	14,056	16,782	90,470	14,817	10,017	5,179	3,025	3,147
Wyoming	1,908	2,007	13,972	1,818	1,321	1,021	443	402
Total	424,431	554,196	3,164,462	486,785	322,415	200,671	144,819	137,219

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017						
	July	June	May	April	March	February	January
Alabama	1,046	1,080	1,280	1,212	2,302	2,092	3,026
Alaska	500	530	855	1,153	2,052	1,857	2,342
Arizona	1,865	1,969	2,288	2,539	2,946	3,408	4,004
Arkansas	2,707	2,750	3,089	3,108	4,498	4,629	6,451
California	15,170	14,780	16,233	17,261	19,964	22,399	29,953
Colorado	1,640	1,741	3,069	4,042	5,202	6,211	9,448
Connecticut	2,437	2,313	2,732	3,818	7,026	6,332	7,504
Delaware	496	558	716	746	1,683	1,495	1,874
District of Columbia	835	847	1,009	1,088	1,826	1,613	2,127
Florida	4,395	4,646	4,881	5,291	5,715	5,345	6,097
Georgia	2,165	2,215	2,594	2,817	5,419	5,190	7,263
Hawaii	194	214	192	201	211	200	226
Idaho	705	719	959	1,349	1,765	2,492	3,769
Illinois	7,684	7,561	12,631	13,520	25,916	24,482	35,363
Indiana	2,231	2,437	3,621	4,419	9,268	8,353	12,717
Iowa	1,597	1,752	2,283	3,276	5,799	6,003	8,330
Kansas	1,552	1,546	1,748	2,532	3,467	3,492	5,918
Kentucky	1,042	1,101	1,338	1,660	3,882	3,815	5,380
Louisiana	1,791	1,926	2,025	2,057	2,588	2,287	3,169
Maine	289	306	462	695	1,291	1,150	1,304
Maryland	3,544	3,035	4,222	4,287	9,620	8,026	10,354
Massachusetts	3,872	3,992	5,899	7,377	16,132	13,235	15,472
Michigan	5,046	5,967	8,794	11,198	21,858	20,747	26,046
Minnesota	2,859	3,116	4,852	7,465	12,307	12,894	16,944
Mississippi	893	903	1,101	987	1,776	1,704	2,374
Missouri	2,089	2,248	2,851	3,318	6,534	6,673	10,590
Montana	670	753	1,095	1,711	2,475	3,028	4,096
Nebraska	1,035	1,189	1,497	2,065	3,235	3,687	5,384
Nevada	1,758	1,908	2,189	2,596	3,089	3,525	4,528
New Hampshire	192	239	425	564	1,439	1,165	1,446
New Jersey	5,573	6,463	8,135	9,271	20,984	18,253	22,476
New Mexico	1,048	997	1,259	1,696	1,931	2,444	3,887
New York	14,117	14,482	18,003	21,293	40,895	36,319	41,615
North Carolina	2,628	2,394	3,008	2,997	6,205	5,153	7,633
North Dakota	307	320	489	892	1,645	1,703	2,306
Ohio	4,675	5,036	7,178	8,461	20,883	18,791	25,694
Oklahoma	1,449	1,551	1,872	2,355	3,478	4,395	7,096
Oregon	890	1,195	1,674	2,466	3,318	4,110	5,864
Pennsylvania	4,816	5,071	7,325	9,181	20,620	18,866	22,975
Rhode Island	262	297	536	749	1,883	1,501	1,840
South Carolina	1,394	1,273	1,514	1,488	2,490	2,106	2,815
South Dakota	302	341	488	756	1,294	1,344	1,972
Tennessee	2,050	2,122	2,559	2,505	5,230	5,140	7,134
Texas	10,418	10,165	11,198	12,120	14,594	16,444	23,876
Utah	1,281	1,727	1,958	3,171	3,419	4,609	7,780
Vermont	292	194	332	375	774	678	814
Virginia	3,358	2,988	3,875	4,073	8,572	7,246	9,659
Washington	2,222	2,464	3,506	4,786	6,433	7,492	9,551
West Virginia	966	1,017	1,218	1,557	2,756	2,536	3,071
Wisconsin	2,882	3,068	4,498	6,319	11,248	10,879	15,389
Wyoming	409	520	938	1,098	1,713	1,884	2,405
Total	133,641	138,030	178,492	211,961	371,651	359,423	479,354

^{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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	183,599	178,735	161,767	17,567	16,567	17,565	17,862	18,236
Alaska	4,808	4,633	3,456	549	469	385	423	387
Arizona	15,521	15,425	15,753	1,493	1,321	1,318	1,334	1,362
Arkansas	87,590	86,930	82,237	8,489	7,717	7,750	8,950	8,371
California	624,086	640,599	632,490	65,318	66,403	67,993	63,392	58,873
Colorado	73,208	70,271	67,871	7,442	5,483	5,484	5,433	5,946
Connecticut	19,705	19,938	19,605	1,943	1,709	1,817	1,717	1,612
Delaware	30,698	24,696	24,814	3,164	2,905	2,820	2,631	2,890
District of Columbia	0	--	--	0	0	0	0	0
Florida	NA	88,324	84,811	9,825	NA	9,598	NA	9,348
Georgia	NA	129,948	123,160	12,940	11,888	12,118	NA	12,116
Hawaii	77	75	73	9	8	8	8	7
Idaho	NA	27,729	29,037	NA	3,073	2,691	2,573	2,624
Illinois	NA	210,284	204,388	21,653	NA	18,702	17,951	17,763
Indiana	350,671	341,446	306,927	32,885	30,630	33,354	32,243	30,625
Iowa	203,872	210,434	196,812	20,086	18,376	19,971	17,965	19,416
Kansas	NA	108,513	103,792	9,169	9,826	11,532	10,306	9,893
Kentucky	96,747	95,406	92,077	9,327	8,079	9,037	8,193	8,202
Louisiana	980,440	958,254	900,744	95,986	94,805	96,600	95,403	96,337
Maine	16,794	15,385	14,054	1,834	1,510	1,391	1,367	1,373
Maryland	NA	12,949	12,658	1,291	1,349	1,068	NA	1,360
Massachusetts	NA	38,294	37,155	3,254	2,812	NA	2,218	2,791
Michigan	140,021	141,677	135,475	13,278	11,276	11,188	10,955	10,850
Minnesota	132,509	128,358	135,744	12,058	11,414	11,570	12,019	11,560
Mississippi	109,475	111,986	105,282	10,162	10,907	11,101	11,123	9,997
Missouri	52,832	53,304	50,706	5,553	4,495	4,346	4,296	4,393
Montana	19,039	20,748	18,098	2,171	1,864	1,714	1,803	1,770
Nebraska	70,997	73,646	73,399	8,090	6,753	7,471	7,187	6,554
Nevada	NA	16,880	15,792	NA	1,533	1,659	1,702	1,513
New Hampshire	8,173	8,133	7,735	768	686	710	708	747
New Jersey	NA	51,097	45,370	6,107	5,583	NA	4,501	4,776
New Mexico	16,039	15,774	12,621	1,752	1,511	1,485	1,479	1,526
New York	72,779	73,931	65,324	6,597	6,039	6,381	6,194	6,013
North Carolina	97,794	95,006	86,455	9,513	8,697	9,249	8,660	8,731
North Dakota	30,670	28,824	26,289	2,321	2,931	3,206	3,191	3,335
Ohio	222,282	233,074	223,653	20,223	19,369	19,806	19,213	15,696
Oklahoma	174,716	172,474	165,624	18,462	16,559	16,706	16,231	17,236
Oregon	46,601	44,902	47,801	5,223	4,485	4,370	4,154	4,057
Pennsylvania	NA	189,228	176,920	23,332	NA	23,400	16,662	16,667
Rhode Island	7,318	7,243	7,069	661	670	690	680	666
South Carolina	79,642	78,161	74,845	8,142	7,169	7,674	7,882	7,429
South Dakota	NA	38,423	37,388	3,071	3,401	3,575	3,666	NA
Tennessee	122,681	119,961	110,853	12,219	10,880	11,439	11,190	11,721
Texas	1,450,439	1,503,474	1,379,693	142,408	137,447	146,341	145,166	139,665
Utah	33,872	32,875	32,753	3,123	3,053	2,876	3,024	3,282
Vermont	NA	1,842	1,762	190	156	163	154	169
Virginia	NA	80,257	77,564	8,027	8,300	8,171	8,219	7,855
Washington	65,085	64,491	65,940	7,315	6,630	6,112	5,948	5,722
West Virginia	NA	30,696	31,325	2,936	2,688	2,762	2,780	2,666
Wisconsin	129,536	132,478	122,498	12,952	10,348	10,423	10,248	10,106
Wyoming	NA	53,662	44,396	5,229	4,679	5,452	NA	4,647
Total	6,880,825	6,880,872	6,492,054	681,637	642,330	670,876	647,345	632,673

See footnotes at end of table.

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

(million cubic feet) – continued

State	2019					Total	2018	
	May	April	March	February	January		December	November
Alabama	18,613	17,789	19,719	18,304	21,376	219,057	20,481	19,840
Alaska	404	414	577	555	646	5,890	620	636
Arizona	1,568	1,513	1,640	1,878	2,094	19,169	1,939	1,805
Arkansas	8,890	8,621	9,627	8,994	10,180	106,692	9,827	9,935
California	62,377	57,934	61,883	55,995	63,918	766,415	64,328	61,488
Colorado	7,337	7,377	9,064	9,504	10,137	88,831	9,760	8,800
Connecticut	1,714	1,801	2,263	2,357	2,772	24,562	2,404	2,220
Delaware	2,963	2,788	3,261	3,264	4,014	30,783	2,872	3,215
District of Columbia	0	0	0	0	0	--	--	--
Florida	10,369	NA	NA	9,207	10,777	108,071	10,268	9,479
Georgia	12,688	12,615	13,921	12,492	14,833	158,445	14,373	14,124
Hawaii	8	8	7	7	8	90	7	7
Idaho ^a	2,713	2,820	3,378	3,434	3,859	34,761	3,558	3,473
Illinois	20,389	20,194	25,352	25,456	30,306	262,228	25,960	25,983
Indiana	34,672	36,052	40,985	36,942	42,283	419,146	39,990	37,710
Iowa	21,106	19,741	22,280	21,857	23,075	256,023	22,288	23,302
Kansas	9,175	NA	11,000	12,210	12,981	132,495	12,344	11,638
Kentucky	8,990	9,776	11,910	10,489	12,746	117,953	11,460	11,087
Louisiana	102,473	98,292	99,896	96,233	104,417	1,152,027	99,461	94,312
Maine	1,595	1,744	1,964	1,907	2,107	19,231	1,997	1,849
Maryland	1,025	1,436	1,530	1,366	1,647	16,176	1,573	1,654
Massachusetts	3,759	4,207	5,185	5,986	5,923	47,524	5,197	4,033
Michigan	12,987	14,156	18,444	16,787	20,100	176,262	17,318	17,267
Minnesota	12,492	13,845	15,129	15,691	16,731	160,086	16,379	15,349
Mississippi	11,266	11,661	11,649	10,309	11,299	134,595	11,233	11,376
Missouri	4,567	4,982	6,048	6,684	7,469	66,473	6,539	6,630
Montana	1,849	1,732	1,899	2,084	2,152	25,244	2,237	2,260
Nebraska	7,117	6,238	6,566	7,257	7,765	89,516	7,686	8,184
Nevada	1,551	1,602	1,734	NA	1,676	20,153	1,694	1,580
New Hampshire	814	877	962	960	942	9,916	906	876
New Jersey	4,603	4,059	5,642	5,366	5,430	64,167	6,875	6,196
New Mexico	1,631	1,590	1,771	1,613	1,682	18,769	1,286	1,710
New York	6,211	7,335	8,971	9,240	9,797	91,430	8,700	8,799
North Carolina	9,209	9,734	11,525	10,418	12,057	116,776	11,033	10,737
North Dakota	3,235	3,128	3,245	2,822	3,256	35,072	3,420	2,828
Ohio	20,472	22,506	27,718	26,956	30,324	285,564	27,764	24,727
Oklahoma	18,104	17,538	19,064	16,050	18,765	207,808	18,026	17,309
Oregon	4,446	4,763	5,027	4,846	5,229	54,267	4,754	4,611
Pennsylvania	16,723	18,509	NA	NA	NA	231,734	22,027	20,479
Rhode Island	712	763	794	848	835	8,817	803	771
South Carolina	7,567	7,850	8,845	8,234	8,849	95,903	8,797	8,944
South Dakota	NA	3,658	4,050	4,300	4,242	46,972	4,344	4,206
Tennessee	11,325	12,108	13,677	13,330	14,793	146,820	13,152	13,707
Texas	142,265	141,077	151,082	143,608	161,379	1,820,998	162,580	154,944
Utah	3,339	3,637	3,527	4,022	3,989	39,935	3,703	3,358
Vermont	188	197	233	229	NA	2,284	230	212
Virginia	8,168	7,989	NA	9,127	8,596	96,794	8,588	7,948
Washington	6,286	6,158	7,044	6,722	7,149	77,303	6,995	5,818
West Virginia	3,097	2,891	NA	3,106	3,427	37,374	3,406	3,272
Wisconsin	11,715	13,030	16,403	16,628	17,684	164,613	16,380	15,755
Wyoming	4,872	NA	5,174	5,729	6,499	66,272	6,556	6,054
Total	673,190	672,132	747,074	716,093	797,475	8,377,487	764,120	732,496

See footnotes at end of table.

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

(million cubic feet) – continued

State	2018							
	October	September	August	July	June	May	April	March
Alabama	18,667	16,976	17,134	17,128	17,135	17,760	17,775	18,742
Alaska	517	531	430	433	379	410	367	459
Arizona	1,604	1,346	1,435	1,356	1,381	1,502	1,557	1,698
Arkansas	8,974	8,293	8,681	7,826	7,650	8,216	8,967	9,076
California	62,841	68,239	70,487	66,583	62,227	63,663	60,659	64,061
Colorado	7,388	5,727	5,501	5,414	5,353	6,158	7,508	8,218
Connecticut	1,925	1,747	1,803	1,764	1,676	1,595	1,883	2,490
Delaware	2,563	1,971	2,033	2,179	1,993	1,871	2,451	3,335
District of Columbia	--	--	--	--	--	--	--	--
Florida	8,903	8,553	8,810	8,517	8,262	8,706	8,927	9,784
Georgia	12,943	12,227	13,195	12,762	12,869	12,770	12,839	14,214
Hawaii	8	7	8	8	8	8	8	7
Idaho ^a	3,347	2,649	2,329	2,282	2,241	2,455	2,538	3,267
Illinois	22,918	18,648	18,321	17,808	16,675	17,629	21,499	24,278
Indiana	27,802	29,271	31,926	33,660	31,886	34,594	34,777	39,358
Iowa	22,015	19,682	20,797	20,429	19,241	19,468	21,051	22,800
Kansas	9,256	8,946	10,517	11,741	10,273	10,561	11,202	11,502
Kentucky	9,367	7,951	8,408	8,169	7,889	8,708	10,066	11,408
Louisiana	94,581	96,186	95,880	96,389	97,713	98,326	93,221	94,917
Maine	1,805	1,599	1,460	1,451	1,192	1,155	1,472	1,707
Maryland	1,213	1,059	1,081	1,147	948	1,256	1,281	1,774
Massachusetts	3,566	2,497	2,508	2,511	2,835	3,107	4,840	5,205
Michigan	14,366	11,537	11,033	10,875	11,259	11,779	14,811	17,610
Minnesota	11,821	10,820	11,141	11,397	10,871	11,975	13,594	14,891
Mississippi	11,033	10,783	11,023	10,432	11,057	11,467	11,848	11,676
Missouri	5,374	4,459	4,662	4,404	4,378	4,335	5,586	6,271
Montana	2,169	2,049	2,014	2,124	2,046	1,891	1,746	2,101
Nebraska	8,000	7,063	6,779	7,631	6,776	6,795	7,705	7,519
Nevada	1,624	1,641	1,738	1,828	1,535	1,518	1,647	1,851
New Hampshire	780	696	681	689	691	781	874	919
New Jersey	6,167	5,208	4,581	4,785	4,803	4,129	5,342	5,351
New Mexico	1,682	1,534	1,526	1,538	1,565	1,731	1,535	1,626
New York	7,755	6,208	6,302	6,236	6,320	5,806	8,180	8,752
North Carolina	9,841	7,976	9,045	8,663	8,718	8,886	9,756	10,959
North Dakota	3,192	2,978	2,844	2,818	2,719	2,469	3,111	2,854
Ohio	21,781	19,893	19,623	19,567	20,491	21,853	24,866	27,180
Oklahoma	18,286	17,221	16,551	15,232	16,012	17,607	17,667	18,114
Oregon	4,637	4,165	4,074	4,000	4,188	4,329	4,588	5,052
Pennsylvania	18,840	16,713	17,302	17,164	16,881	17,674	20,234	21,986
Rhode Island	659	692	656	623	652	741	809	727
South Carolina	8,459	6,976	7,697	7,476	7,568	7,768	8,193	8,983
South Dakota	3,713	3,652	3,662	3,554	3,601	3,615	4,091	3,968
Tennessee	11,731	11,009	11,410	11,085	11,538	11,514	13,043	12,417
Texas	146,703	148,953	153,194	155,800	147,625	152,960	149,643	152,155
Utah	2,907	3,058	2,953	2,953	3,165	3,236	3,463	3,374
Vermont	195	162	161	154	156	173	193	219
Virginia	8,000	9,416	6,639	7,825	8,179	7,834	7,619	8,261
Washington	6,993	6,305	5,837	5,627	5,768	5,914	6,219	6,670
West Virginia	3,197	2,793	3,126	3,069	2,710	2,703	2,798	3,152
Wisconsin	13,480	10,914	10,997	10,402	10,446	11,786	14,625	15,747
Wyoming	5,737	5,125	4,958	7,264	4,595	4,389	5,261	5,543
Total	681,323	654,103	664,953	664,771	646,136	667,578	693,936	734,231

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				
	February	January	Total	December	November	October	September	August
Alabama	17,256	20,162	196,654	18,414	16,472	15,844	15,252	15,654
Alaska	549	558	4,156	395	305	239	215	241
Arizona	1,678	1,867	19,250	1,999	1,498	1,573	1,387	1,373
Arkansas	8,844	10,401	100,256	9,497	8,522	8,710	7,790	7,956
California	57,500	64,340	760,661	66,075	62,096	64,589	67,361	69,043
Colorado	9,242	9,762	84,914	9,222	7,821	6,932	5,097	5,426
Connecticut	2,312	2,744	24,557	2,604	2,348	1,664	1,665	1,737
Delaware	2,665	3,632	29,860	2,511	2,534	2,647	2,927	2,492
District of Columbia	--	--	--	--	--	--	--	--
Florida	7,823	10,038	103,417	9,658	8,949	8,979	7,255	8,336
Georgia	11,987	14,141	150,172	13,800	13,212	11,754	10,370	12,477
Hawaii	7	8	85	5	7	7	8	8
Idaho	3,096	3,525	35,856	3,492	3,326	3,248	2,701	2,259
Illinois	23,727	28,782	258,841	29,214	25,239	20,881	18,202	18,144
Indiana	37,664	40,509	379,118	39,283	32,908	29,357	29,293	28,797
Iowa	21,378	23,574	241,187	23,014	21,361	18,925	18,576	19,411
Kansas	11,403	13,112	127,653	12,448	11,413	9,479	10,385	11,175
Kentucky	11,001	12,439	113,582	11,400	10,106	9,129	8,187	8,385
Louisiana	92,075	98,967	1,096,400	100,025	95,631	93,605	89,667	93,248
Maine	1,641	1,904	17,698	1,892	1,752	1,396	1,291	1,229
Maryland	1,414	1,775	15,744	1,543	1,543	1,259	1,212	1,137
Massachusetts	5,231	5,993	47,004	5,723	4,127	2,853	2,520	2,518
Michigan	19,643	18,765	170,189	19,356	15,358	13,685	11,280	11,754
Minnesota	15,294	16,552	165,901	15,411	14,746	12,890	12,347	12,907
Mississippi	10,658	12,010	128,356	11,836	11,238	10,452	10,431	10,619
Missouri	6,811	7,024	63,158	6,836	5,616	5,103	4,313	4,560
Montana	2,261	2,346	23,393	2,776	2,518	2,686	2,102	1,943
Nebraska	7,544	7,834	89,521	8,326	7,796	7,873	6,726	7,278
Nevada	1,675	1,823	19,269	1,832	1,646	1,737	1,530	1,581
New Hampshire	1,002	1,022	9,499	941	822	724	679	662
New Jersey	4,883	5,849	54,298	4,842	4,086	4,943	3,546	3,831
New Mexico	1,419	1,617	15,412	1,487	1,304	1,328	1,216	1,259
New York	8,779	9,592	82,849	9,130	8,395	6,619	5,716	5,769
North Carolina	9,401	11,762	107,373	10,728	10,190	9,443	8,157	8,419
North Dakota	2,865	2,974	32,127	3,243	2,596	2,656	1,795	2,491
Ohio	27,065	30,755	277,767	28,889	25,226	21,331	20,499	19,487
Oklahoma	17,405	18,379	199,576	17,610	16,342	17,005	16,353	16,118
Oregon	4,626	5,243	57,849	5,262	4,786	4,889	4,361	4,270
Pennsylvania	19,532	22,902	219,028	22,021	20,087	17,855	16,014	15,651
Rhode Island	843	842	8,551	773	709	641	673	672
South Carolina	7,587	7,452	91,644	8,266	8,533	8,064	7,059	7,447
South Dakota	4,273	4,295	45,641	4,248	4,006	3,546	3,572	3,659
Tennessee	12,274	13,939	134,555	12,989	10,713	10,480	10,399	10,888
Texas	136,910	159,530	1,681,643	155,670	146,279	142,335	130,759	140,310
Utah	3,813	3,953	40,007	3,874	3,380	2,947	3,048	2,907
Vermont	204	224	2,191	226	204	166	158	164
Virginia	8,245	8,239	94,098	8,235	8,299	7,585	7,556	7,443
Washington	7,533	7,624	80,656	7,721	6,995	7,289	6,286	6,087
West Virginia	3,330	3,819	38,358	3,601	3,432	3,192	3,059	3,092
Wisconsin	16,008	18,073	154,920	17,452	14,971	12,176	10,467	10,960
Wyoming	5,253	5,538	54,512	5,482	4,634	4,389	4,193	4,200
Total	695,629	778,211	7,949,410	761,277	696,080	657,100	615,657	637,476

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017						
	July	June	May	April	March	February	January
Alabama	15,512	15,929	16,426	16,052	17,530	15,631	17,937
Alaska	200	341	374	403	473	468	502
Arizona	1,331	1,348	1,560	1,582	1,753	1,780	2,064
Arkansas	7,604	7,765	8,219	7,951	8,455	8,328	9,459
California	64,341	60,310	62,367	60,359	62,971	56,870	64,279
Colorado	5,288	5,397	6,689	7,110	7,799	7,890	10,242
Connecticut	1,750	1,691	1,756	1,849	2,632	2,217	2,644
Delaware	2,272	2,424	2,316	1,837	2,353	2,657	2,888
District of Columbia	--	--	--	--	--	--	--
Florida	8,208	7,852	8,566	8,470	9,376	8,345	9,423
Georgia	12,210	12,581	12,597	11,785	13,761	12,169	13,456
Hawaii	7	7	7	7	8	7	8
Idaho ^a	2,470	2,453	2,739	2,817	3,180	3,273	3,897
Illinois	17,031	17,337	19,182	19,982	23,644	22,839	27,147
Indiana	28,380	27,053	28,710	30,512	34,791	32,493	37,541
Iowa	19,197	19,040	19,616	19,343	21,559	19,560	21,584
Kansas	11,783	10,251	9,325	10,141	10,066	10,112	11,076
Kentucky	7,997	8,457	9,187	9,027	10,416	9,857	11,435
Louisiana	90,752	88,621	89,279	88,038	90,410	82,601	94,523
Maine	1,300	1,200	1,257	1,435	1,634	1,567	1,745
Maryland	1,188	1,299	1,236	1,041	1,528	1,276	1,483
Massachusetts	2,490	2,705	3,263	4,299	5,696	5,123	5,687
Michigan	10,612	10,652	12,224	12,865	17,320	16,201	18,881
Minnesota	12,246	12,624	12,861	13,739	14,916	14,740	16,474
Mississippi	10,027	10,107	10,742	10,449	11,027	10,308	11,121
Missouri	4,370	4,330	4,682	4,834	5,869	5,633	7,011
Montana	1,829	1,480	1,166	1,351	1,744	1,738	2,059
Nebraska	7,654	6,271	6,929	7,074	7,412	7,666	8,517
Nevada	1,454	1,482	1,470	1,526	1,672	1,518	1,821
New Hampshire	682	678	755	847	909	904	895
New Jersey	4,100	4,483	4,364	4,045	5,553	5,030	5,476
New Mexico	1,264	1,221	1,278	1,214	1,118	1,211	1,511
New York	5,610	5,450	5,520	6,389	8,240	7,540	8,470
North Carolina	7,804	8,108	8,310	8,284	9,632	8,663	9,635
North Dakota	2,506	2,752	2,852	2,903	3,047	2,358	2,929
Ohio	19,163	18,754	21,225	22,340	26,464	25,589	28,801
Oklahoma	15,682	15,879	16,581	17,062	17,748	15,393	17,803
Oregon	4,135	4,401	4,751	4,784	5,212	5,096	5,902
Pennsylvania	15,838	16,009	16,859	17,108	21,134	19,124	21,328
Rhode Island	644	660	666	799	716	791	806
South Carolina	6,998	7,139	7,435	7,212	8,091	7,249	8,150
South Dakota	3,606	3,586	3,682	3,645	3,945	3,821	4,326
Tennessee	10,471	10,636	11,029	10,668	11,986	11,690	12,606
Texas	142,970	139,979	133,115	131,932	140,431	132,345	145,516
Utah	3,035	3,112	3,247	3,480	3,390	3,809	3,779
Vermont	158	158	158	167	215	196	222
Virginia	6,707	7,849	7,899	8,036	8,471	8,080	7,937
Washington	5,934	5,952	6,065	6,277	7,011	6,862	8,176
West Virginia	2,980	2,997	2,920	2,705	3,484	3,224	3,672
Wisconsin	10,269	9,993	11,085	11,766	15,106	13,844	16,832
Wyoming	3,974	4,017	4,379	4,590	4,949	4,617	5,088
Total	624,037	614,821	628,921	632,132	696,846	650,301	734,762

^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.

-- Not applicable.

^{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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	364,074	368,617	319,008	35,097	43,906	45,729	45,184	39,756
Alaska	26,311	21,094	23,591	2,788	3,031	3,728	3,666	2,299
Arizona	299,765	240,353	195,227	33,369	36,494	42,432	40,838	33,041
Arkansas	134,728	139,750	108,566	15,055	14,469	18,503	17,649	15,219
California	464,522	506,357	501,173	57,110	59,584	68,981	57,418	34,051
Colorado	108,121	106,090	81,991	8,866	10,384	14,264	15,123	10,129
Connecticut	116,184	111,161	87,980	9,597	11,659	14,617	16,258	11,535
Delaware	25,229	33,666	40,591	1,775	2,470	4,427	5,473	2,502
District of Columbia	--	--	--	--	--	--	--	--
Florida	1,144,672	1,087,733	1,014,637	123,696	130,299	135,556	132,013	126,812
Georgia	349,437	321,052	311,097	36,248	40,792	45,230	42,770	37,193
Hawaii	--	--	--	--	--	--	--	--
Idaho	23,772	17,430	15,125	1,781	2,984	3,956	3,826	2,325
Illinois	132,268	122,287	124,841	13,061	14,068	19,497	26,151	13,275
Indiana	186,476	164,737	106,026	19,817	20,013	21,640	23,338	18,506
Iowa	43,828	41,519	22,500	3,679	5,182	7,475	7,403	4,284
Kansas	27,332	25,602	17,380	3,435	3,550	4,674	4,083	3,180
Kentucky	91,156	97,607	65,068	11,838	10,585	10,025	11,824	8,187
Louisiana	314,949	268,526	240,003	29,808	35,250	40,432	41,062	37,955
Maine	W	12,432	13,214	748	937	1,068	1,381	757
Maryland	86,713	85,030	39,524	8,217	8,057	10,352	11,837	8,122
Massachusetts	99,310	117,496	141,411	8,559	8,824	12,255	16,096	8,469
Michigan	234,667	220,788	176,740	25,956	23,492	31,980	31,980	20,539
Minnesota	65,334	57,085	40,989	6,623	7,087	10,153	10,070	6,004
Mississippi	312,170	324,072	284,529	30,340	37,653	42,294	41,123	29,951
Missouri	57,589	54,432	39,516	5,770	6,575	8,280	9,030	6,149
Montana	4,746	3,929	3,954	507	533	749	627	326
Nebraska	W	8,077	5,553	1,001	1,331	2,425	2,311	846
Nevada	162,180	172,675	167,702	14,874	18,258	23,505	21,718	18,006
New Hampshire	21,854	19,681	22,696	3,430	2,267	3,855	4,249	2,499
New Jersey	250,767	244,281	237,962	24,541	25,870	31,321	34,298	25,444
New Mexico	88,156	81,388	64,307	8,620	9,834	12,669	11,168	8,630
New York	336,315	356,362	330,175	29,026	33,725	47,320	56,254	33,409
North Carolina	261,301	278,335	228,815	25,814	28,528	30,711	31,074	25,249
North Dakota	10,917	8,710	6,069	1,215	1,323	1,686	1,668	1,028
Ohio	307,622	263,543	161,340	27,817	31,275	36,161	37,688	31,468
Oklahoma	288,804	275,941	195,385	25,804	34,743	45,834	41,677	32,693
Oregon	117,492	97,881	79,077	13,329	14,317	15,481	15,044	8,796
Pennsylvania	563,629	454,758	445,538	60,054	62,355	72,580	75,600	57,750
Rhode Island	47,588	49,491	42,701	4,857	4,917	6,465	6,527	5,028
South Carolina	158,726	146,180	114,055	14,972	18,421	20,454	20,765	17,797
South Dakota	W	7,822	4,761	1,057	1,234	1,822	1,786	830
Tennessee	98,836	87,416	63,822	7,110	11,872	12,447	12,548	10,968
Texas	1,502,496	1,424,755	1,175,102	143,994	185,512	217,813	194,954	166,832
Utah	56,411	49,986	35,089	4,569	5,215	7,458	7,544	5,633
Vermont	11	10	10	2	--	*	2	3
Virginia	347,955	297,200	259,038	27,302	38,295	46,004	47,309	39,087
Washington	83,389	68,980	63,204	9,028	11,637	13,862	12,929	6,520
West Virginia	14,059	9,797	9,291	3,651	2,386	2,276	2,045	1,241
Wisconsin	130,984	110,173	86,972	14,028	13,491	17,566	17,672	12,768
Wyoming	2,561	1,479	1,023	221	238	475	486	200
Total	9,593,051	9,063,765	7,814,370	960,060	1,094,924	1,288,489	1,273,538	993,293

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					Total	2018	
	May	April	March	February	January		December	November
Alabama	37,141	27,452	34,499	27,454	27,856	430,906	30,691	31,598
Alaska	1,484	2,055	2,365	2,253	2,641	25,393	2,238	2,061
Arizona	23,524	25,774	22,993	19,527	21,773	284,651	22,760	21,538
Arkansas	11,724	9,874	10,143	12,558	9,533	152,665	5,702	7,213
California	24,066	27,541	39,441	47,023	49,309	614,722	53,379	54,987
Colorado	9,582	8,839	9,979	10,854	10,102	125,894	10,029	9,776
Connecticut	10,411	10,868	10,081	9,878	11,279	136,075	12,669	12,245
Delaware	1,969	1,820	2,298	1,317	1,178	36,328	1,233	1,429
District of Columbia	--	--	--	--	--	--	--	--
Florida	124,367	101,352	95,063	85,792	89,722	1,266,822	84,364	94,725
Georgia	33,992	29,580	24,867	28,348	30,417	373,647	27,801	24,793
Hawaii	--	--	--	--	--	--	--	--
Idaho	827	1,209	1,472	2,534	2,858	23,683	3,300	2,952
Illinois	8,285	10,835	9,265	8,226	9,604	139,048	7,044	9,717
Indiana	15,319	14,395	17,468	17,270	18,710	196,219	15,919	15,562
Iowa	2,800	2,655	3,499	3,295	3,555	47,070	3,321	2,230
Kansas	3,215	1,533	1,117	1,234	1,311	28,281	1,208	1,471
Kentucky	7,788	6,338	9,041	6,075	9,455	112,656	6,173	8,876
Louisiana	31,477	29,309	22,645	21,437	25,573	300,919	16,112	16,280
Maine	585	W	750	794	897	13,747	474	841
Maryland	7,818	6,785	10,280	7,994	7,250	97,671	6,831	5,810
Massachusetts	6,342	7,336	9,797	10,082	11,550	133,711	8,503	7,713
Michigan	19,154	20,856	19,996	18,759	21,955	254,337	17,529	16,020
Minnesota	3,962	5,357	5,438	6,236	4,404	63,110	2,736	3,289
Mississippi	30,927	25,132	24,399	24,432	25,918	367,855	19,540	24,243
Missouri	5,363	4,258	4,640	3,530	3,993	62,977	3,425	5,119
Montana	255	248	349	652	501	5,129	655	544
Nebraska	586	W	576	399	414	9,196	357	762
Nevada	12,718	12,314	13,366	12,971	14,451	199,840	13,504	13,661
New Hampshire	272	1,876	1,552	607	1,248	21,563	502	1,380
New Jersey	20,995	23,279	20,943	21,583	22,493	285,296	21,319	19,697
New Mexico	7,764	7,490	7,020	7,254	7,707	98,438	9,575	7,475
New York	24,172	24,744	27,329	29,107	31,230	415,495	29,602	29,531
North Carolina	23,035	20,330	25,073	26,451	25,036	330,119	25,036	26,748
North Dakota	646	870	819	750	913	9,873	576	587
Ohio	26,041	27,540	30,640	29,627	29,363	322,926	30,879	28,504
Oklahoma	20,562	20,239	20,462	21,723	25,067	317,128	19,356	21,830
Oregon	3,134	8,329	13,046	12,257	13,759	123,365	13,025	12,460
Pennsylvania	48,335	35,430	49,871	49,241	52,414	538,527	43,478	40,291
Rhode Island	4,872	3,757	4,311	3,311	3,543	57,260	3,661	4,109
South Carolina	16,301	12,971	11,690	12,737	12,619	173,518	10,995	16,343
South Dakota	W	W	489	473	594	9,099	533	745
Tennessee	10,524	4,712	10,396	8,881	9,378	103,092	7,344	8,332
Texas	144,981	103,175	112,132	105,532	127,571	1,643,854	113,249	105,850
Utah	5,088	3,736	6,281	5,424	5,462	61,161	5,858	5,317
Vermont	--	1	2	1	1	11	*	1
Virginia	25,468	24,181	31,564	34,104	34,642	357,021	32,319	27,502
Washington	3,037	5,346	6,537	5,315	9,177	76,549	6,135	1,433
West Virginia	731	678	419	223	411	10,725	201	727
Wisconsin	9,191	12,114	11,647	10,768	11,738	129,494	10,911	8,411
Wyoming	207	140	209	265	120	1,873	170	224
Total	831,373	735,863	798,256	776,557	840,697	10,588,937	762,221	762,951

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							
	October	September	August	July	June	May	April	March
Alabama	36,929	42,871	42,422	44,173	38,610	39,503	33,626	31,064
Alaska	1,649	1,992	2,080	2,149	1,962	2,106	1,958	2,344
Arizona	29,070	35,544	38,223	36,701	27,027	20,670	17,335	11,912
Arkansas	13,280	11,207	15,770	17,779	16,404	15,356	13,536	13,378
California	60,861	54,342	74,280	81,991	41,128	28,895	32,377	43,596
Colorado	9,781	11,069	12,209	14,105	11,965	10,469	7,574	8,390
Connecticut	12,239	12,458	15,046	14,127	11,424	8,641	8,846	10,459
Delaware	3,911	3,893	5,304	3,614	2,332	3,222	3,604	3,456
District of Columbia	--	--	--	--	--	--	--	--
Florida	119,902	129,251	129,082	129,387	117,564	103,489	94,955	91,207
Georgia	30,715	36,328	36,694	38,986	34,627	32,021	22,534	27,811
Hawaii	--	--	--	--	--	--	--	--
Idaho	1,151	3,066	2,797	3,284	1,232	410	924	1,495
Illinois	8,865	15,149	17,615	18,653	13,746	12,898	6,558	11,164
Indiana	14,238	15,436	18,788	20,088	18,351	18,545	14,905	14,510
Iowa	3,031	4,778	4,901	6,082	4,372	5,176	4,267	3,422
Kansas	1,949	1,906	2,354	3,202	3,616	4,845	2,485	2,168
Kentucky	9,602	11,342	10,870	11,058	8,104	9,058	7,011	9,025
Louisiana	27,389	30,324	31,130	34,918	30,696	28,966	21,399	19,373
Maine	1,898	1,187	2,419	1,980	1,280	1,002	715	1,096
Maryland	10,513	11,176	11,689	10,666	7,891	10,708	7,212	6,623
Massachusetts	10,301	12,540	19,753	17,816	9,180	7,301	7,424	11,667
Michigan	18,716	20,553	23,924	23,241	20,289	24,888	23,219	24,925
Minnesota	2,894	6,079	8,454	9,215	6,401	6,176	4,867	5,105
Mississippi	23,618	33,632	38,441	39,516	33,962	34,006	31,457	26,620
Missouri	5,882	5,134	6,371	7,352	6,714	6,589	2,270	4,674
Montana	418	401	628	520	328	343	302	296
Nebraska	1,172	437	1,082	1,573	1,125	1,349	367	439
Nevada	15,190	20,338	23,829	25,113	19,281	14,330	13,244	13,553
New Hampshire	3,203	2,249	4,153	4,186	3,043	850	616	242
New Jersey	23,624	29,346	34,549	34,987	23,216	21,210	21,481	22,598
New Mexico	6,775	9,086	10,391	10,524	9,989	8,953	7,766	6,276
New York	34,837	41,507	56,497	53,471	35,538	30,309	26,174	26,336
North Carolina	28,721	30,175	33,503	36,621	29,061	23,995	20,485	28,303
North Dakota	765	910	977	1,291	1,060	1,021	731	777
Ohio	27,755	27,066	31,534	29,115	25,148	23,222	23,560	25,061
Oklahoma	22,372	31,260	36,743	42,485	35,943	34,337	20,959	16,046
Oregon	11,349	14,148	15,492	14,300	4,921	2,024	6,282	11,243
Pennsylvania	47,756	53,313	60,399	56,927	46,422	36,867	36,904	41,243
Rhode Island	6,448	6,937	7,761	6,792	5,077	4,170	3,640	3,143
South Carolina	16,842	21,711	19,933	20,491	16,625	11,654	9,136	10,714
South Dakota	347	554	989	1,407	982	1,363	625	394
Tennessee	9,675	11,717	11,626	11,584	9,216	5,163	5,800	7,570
Texas	126,829	151,010	189,239	208,167	160,952	150,012	101,037	108,287
Utah	6,035	6,013	8,060	8,251	4,478	3,814	3,253	3,015
Vermont	1	1	*	2	2	*	2	1
Virginia	21,233	34,815	37,580	36,519	35,073	26,834	19,806	27,803
Washington	6,018	12,021	13,307	12,641	4,572	2,378	3,294	5,907
West Virginia	1,464	1,790	1,396	1,347	791	922	1,091	251
Wisconsin	10,424	11,600	15,031	14,857	10,701	7,885	6,170	11,498
Wyoming	179	136	213	257	133	141	138	51
Total	887,814	1,029,799	1,185,530	1,223,514	952,554	848,085	703,919	756,528

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				
	February	January	Total	December	November	October	September	August
Alabama	25,181	34,239	380,038	30,413	30,617	31,595	34,365	39,609
Alaska	2,256	2,598	28,933	2,686	2,656	2,174	2,146	2,378
Arizona	11,957	11,913	223,952	15,827	12,898	21,725	24,844	31,172
Arkansas	11,405	11,635	127,049	12,625	5,858	10,164	10,771	11,088
California	41,978	46,910	600,988	51,344	48,472	58,968	62,939	77,936
Colorado	10,025	10,504	97,536	8,928	6,616	6,312	9,090	10,935
Connecticut	8,891	9,029	108,687	10,315	10,392	9,549	8,307	10,765
Delaware	2,556	1,774	44,961	2,485	1,885	3,562	4,076	4,898
District of Columbia	--	--	--	--	--	--	--	--
Florida	82,625	90,270	1,186,911	86,656	85,618	107,333	111,400	127,055
Georgia	28,617	32,719	370,073	32,250	26,727	29,342	32,193	38,970
Hawaii	--	--	--	--	--	--	--	--
Idaho	1,205	1,865	20,924	2,984	2,816	1,317	2,605	2,918
Illinois	7,007	10,632	142,141	11,066	6,234	11,470	14,253	14,545
Indiana	13,439	16,437	132,684	15,855	10,803	10,124	11,635	11,341
Iowa	2,575	2,915	29,369	3,617	3,252	2,545	3,799	3,910
Kansas	1,646	1,429	20,589	1,601	1,608	2,092	1,579	1,980
Kentucky	6,841	14,698	81,208	8,987	7,153	3,669	6,788	8,658
Louisiana	19,124	25,206	279,290	22,690	16,597	26,637	26,882	28,721
Maine	356	498	13,761	287	260	1,041	739	1,527
Maryland	5,265	3,287	50,725	5,051	6,149	3,776	5,711	4,915
Massachusetts	10,576	10,938	162,967	11,524	10,032	13,901	15,113	18,679
Michigan	18,304	22,730	213,463	20,398	16,325	18,701	17,625	19,875
Minnesota	3,981	3,914	49,052	4,787	3,276	2,559	3,098	4,106
Mississippi	26,359	36,461	340,862	31,330	25,003	24,374	28,768	34,809
Missouri	4,186	5,259	46,972	4,713	2,743	2,891	4,624	4,559
Montana	334	359	4,688	420	314	402	474	673
Nebraska	250	282	6,168	318	297	398	531	1,001
Nevada	13,050	14,748	196,541	14,784	14,055	16,809	17,604	22,362
New Hampshire	223	916	25,975	1,429	1,850	1,668	3,324	3,468
New Jersey	18,773	14,497	275,653	20,760	16,931	22,428	24,790	27,969
New Mexico	6,008	5,619	75,459	6,270	4,883	5,931	6,476	7,499
New York	23,914	27,781	385,490	30,028	25,286	28,819	36,218	43,154
North Carolina	23,145	24,328	278,240	26,801	22,625	21,626	23,776	25,674
North Dakota	592	586	7,223	563	591	330	623	435
Ohio	23,791	27,291	207,462	24,868	21,253	15,517	16,594	19,560
Oklahoma	18,014	17,781	228,572	20,018	13,169	16,087	19,856	27,532
Oregon	7,733	10,389	104,362	14,483	10,802	12,075	11,970	14,579
Pennsylvania	37,278	37,650	526,521	41,869	39,113	52,720	52,112	54,996
Rhode Island	2,909	2,614	50,820	3,506	4,614	5,740	5,426	5,328
South Carolina	7,360	11,714	135,543	10,381	11,107	12,565	12,960	12,930
South Dakota	692	470	5,713	477	476	335	357	635
Tennessee	5,583	9,481	75,576	6,642	5,112	6,059	6,271	7,053
Texas	105,899	123,323	1,370,474	110,440	84,931	103,598	121,368	166,870
Utah	3,266	3,801	40,830	3,773	1,967	1,950	3,531	6,182
Vermont	1	--	12	1	1	*	1	1
Virginia	29,317	28,221	311,445	26,930	25,477	19,668	29,699	32,949
Washington	3,998	4,845	80,589	10,093	7,292	9,721	9,295	12,412
West Virginia	242	504	10,426	352	783	2,100	2,069	1,375
Wisconsin	11,126	10,881	107,332	11,233	9,128	10,103	10,480	11,829
Wyoming	170	61	1,307	174	110	71	104	203
Total	690,022	786,001	9,265,555	785,029	666,156	772,543	859,260	1,022,019

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						
	July	June	May	April	March	February	January
Alabama	41,700	31,237	30,940	29,957	31,584	22,805	25,217
Alaska	2,389	2,230	2,313	2,247	2,590	2,493	2,631
Arizona	34,287	27,646	19,064	14,262	7,331	5,362	9,535
Arkansas	16,036	12,326	12,067	12,188	11,042	6,862	6,022
California	67,003	49,186	35,197	27,579	31,728	38,222	52,415
Colorado	12,453	8,751	7,211	7,377	5,811	5,712	8,340
Connecticut	10,987	7,981	6,500	7,162	7,841	8,451	10,437
Delaware	6,024	5,162	5,402	2,665	4,052	2,537	2,213
District of Columbia	--	--	--	--	--	--	--
Florida	122,741	107,190	108,854	90,596	87,323	73,795	78,350
Georgia	37,034	32,482	30,367	24,751	26,720	29,592	29,646
Hawaii	--	--	--	--	--	--	--
Idaho	2,820	651	260	179	115	1,185	3,076
Illinois	23,069	15,881	8,820	9,808	11,230	8,076	7,688
Indiana	13,027	9,991	6,326	8,767	13,501	9,936	11,378
Iowa	4,332	2,086	1,564	1,544	1,183	792	743
Kansas	3,423	2,527	1,230	1,438	1,381	668	1,063
Kentucky	10,924	7,610	5,858	7,481	7,585	2,484	4,011
Louisiana	30,508	26,740	24,692	23,580	20,329	16,270	15,644
Maine	1,769	1,491	1,390	1,387	1,252	1,280	1,337
Maryland	5,533	4,239	2,992	3,743	4,395	2,633	1,587
Massachusetts	18,350	15,683	12,931	14,296	11,257	9,763	11,437
Michigan	22,549	18,713	16,840	14,206	20,126	12,520	15,584
Minnesota	7,185	4,957	3,549	4,513	5,135	1,817	4,069
Mississippi	38,129	29,832	29,864	25,534	29,436	19,136	24,646
Missouri	7,268	5,176	3,294	2,264	3,465	2,844	3,132
Montana	524	279	300	324	311	287	380
Nebraska	1,574	587	305	372	337	177	270
Nevada	22,924	19,238	14,568	11,960	12,852	13,184	16,201
New Hampshire	2,923	2,505	1,776	3,572	1,464	893	1,104
New Jersey	31,871	27,193	21,366	19,107	25,542	17,244	20,453
New Mexico	9,063	8,037	6,131	4,589	5,127	5,098	6,357
New York	46,794	37,181	26,888	24,266	30,828	25,846	30,182
North Carolina	26,126	22,821	20,911	17,458	24,688	22,680	23,056
North Dakota	490	1,041	1,008	801	545	460	336
Ohio	19,907	16,191	14,845	11,982	15,735	15,066	15,943
Oklahoma	35,229	23,941	17,991	17,393	12,468	10,380	14,508
Oregon	11,462	2,162	1,436	1,666	2,970	7,117	13,640
Pennsylvania	57,900	44,546	33,817	32,014	38,531	37,976	40,926
Rhode Island	5,701	3,861	3,412	5,531	2,781	2,286	2,633
South Carolina	13,418	11,530	13,255	10,435	11,103	8,466	7,393
South Dakota	1,132	731	405	283	372	216	294
Tennessee	8,247	6,903	3,232	6,554	8,921	5,418	5,164
Texas	182,748	145,864	109,734	93,553	91,146	74,362	85,861
Utah	5,182	3,635	2,494	2,208	2,215	2,710	4,982
Vermont	*	1	2	*	2	1	2
Virginia	35,127	32,025	21,357	17,945	25,447	22,207	22,614
Washington	9,373	1,878	2,221	2,433	2,124	4,418	9,329
West Virginia	1,437	937	454	299	374	71	174
Wisconsin	12,896	8,088	4,568	4,704	9,862	6,936	7,507
Wyoming	239	92	58	76	22	46	113
Total	1,081,826	851,035	700,059	627,049	672,176	568,781	659,623

^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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	NA	591,350	514,758	55,311	62,291	65,026	65,206	60,111
Alaska	NA	50,592	53,897	5,904	NA	NA	NA	NA
Arizona	379,833	308,101	263,665	39,401	41,214	47,047	45,647	38,316
Arkansas	NA	295,104	245,034	28,114	25,740	29,856	30,196	27,052
California	1,672,428	1,686,003	1,676,188	171,230	162,761	174,869	160,289	131,810
Colorado	332,818	307,197	274,302	31,123	20,856	24,277	25,437	22,294
Connecticut	219,826	214,869	182,983	17,207	17,136	19,994	21,661	16,974
Delaware	76,352	78,974	81,958	6,235	6,335	8,181	9,074	6,318
District of Columbia	NA	22,467	20,891	NA	1,025	1,154	925	1,005
Florida	NA	1,245,858	1,164,448	139,665	NA	151,038	NA	142,100
Georgia	NA	588,448	548,214	57,870	58,874	63,851	NA	55,966
Hawaii	2,765	2,742	2,588	269	265	282	290	253
Idaho	NA	77,733	79,588	NA	7,901	7,958	7,729	6,436
Illinois	NA	833,915	750,979	70,738	NA	53,745	60,092	49,311
Indiana	706,551	673,364	549,179	65,652	55,826	59,370	60,126	54,340
Iowa	NA	345,914	297,786	32,319	26,393	NA	NA	26,836
Kansas	NA	212,147	184,501	19,290	15,972	18,652	17,346	16,080
Kentucky	248,407	258,340	207,965	24,939	20,617	20,662	22,033	18,537
Louisiana	1,349,284	1,281,344	1,182,986	129,930	133,426	140,682	139,579	137,566
Maine	34,934	37,067	35,699	3,468	2,841	2,790	3,067	2,549
Maryland	NA	222,386	157,892	15,448	14,233	16,309	NA	14,377
Massachusetts	NA	342,386	344,690	23,191	19,161	NA	24,795	18,034
Michigan	767,173	734,609	635,614	69,510	46,001	54,118	53,726	44,961
Minnesota	391,451	373,920	335,762	35,037	24,360	26,928	27,503	24,102
Mississippi	453,525	469,139	415,332	42,806	50,026	55,000	53,828	41,397
Missouri	243,087	239,269	189,381	21,432	14,873	16,567	17,324	14,744
Montana	NA	60,973	54,578	5,764	3,951	3,647	3,999	4,112
Nebraska	NA	139,738	124,788	12,685	9,807	NA	11,555	9,607
Nevada	NA	246,826	241,553	NA	23,240	28,321	26,757	23,353
New Hampshire	43,116	40,859	41,908	4,829	3,427	4,945	5,320	3,668
New Jersey	NA	607,922	552,161	47,041	41,825	NA	50,484	41,952
New Mexico	NA	138,832	116,140	14,809	13,349	NA	14,498	12,287
New York	1,009,735	1,044,579	943,519	70,121	65,029	78,456	87,660	65,896
North Carolina	NA	468,094	392,920	40,520	40,806	43,394	42,909	NA
North Dakota	63,666	57,281	49,396	5,072	4,862	5,457	5,390	4,972
Ohio	872,709	844,712	670,399	69,442	60,806	65,322	66,986	57,903
Oklahoma	547,629	530,753	424,148	48,623	54,130	65,352	60,916	53,324
Oregon	224,501	194,197	184,907	25,721	21,582	21,876	21,189	15,398
Pennsylvania	NA	953,922	883,676	99,351	NA	105,187	101,340	84,549
Rhode Island	78,428	81,148	70,763	7,047	6,309	7,765	7,788	6,449
South Carolina	277,358	264,846	222,264	25,493	27,505	29,948	30,455	27,132
South Dakota	NA	66,180	58,714	5,597	5,213	5,942	NA	NA
Tennessee	311,028	303,909	245,240	24,344	26,360	27,027	27,239	26,313
Texas	3,297,030	3,264,087	2,813,163	306,913	340,129	381,797	358,408	325,253
Utah	NA	159,556	144,206	13,797	11,572	13,019	14,014	12,267
Vermont	NA	10,383	8,929	885	617	603	592	626
Virginia	NA	501,842	440,835	41,361	51,168	59,128	60,108	51,922
Washington	260,376	237,281	240,232	30,057	23,502	23,904	23,178	17,287
West Virginia	NA	78,784	72,534	9,228	6,351	6,424	6,164	5,193
Wisconsin	446,719	423,300	365,914	42,215	29,730	33,411	33,057	29,318
Wyoming	NA	74,959	65,740	6,776	5,482	6,496	NA	6,033
Total	22,869,832	22,288,202	19,824,910	2,096,857	1,996,374	2,207,843	2,182,485	1,903,509

See footnotes at end of table.

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

(million cubic feet) – continued

State	2019					Total	2018	
	May	April	March	February	January		December	November
Alabama	NA	48,702	60,984	51,773	61,964	711,452	61,000	59,102
Alaska	NA	NA	NA	NA	NA	64,383	7,487	6,303
Arizona	29,949	33,116	34,320	33,440	37,383	372,444	34,640	29,703
Arkansas	25,344	24,481	NA	32,658	33,585	349,850	27,753	26,994
California	138,057	135,523	178,581	209,514	209,795	2,077,516	211,685	179,828
Colorado	28,322	30,362	46,975	49,777	53,394	400,531	52,081	41,253
Connecticut	17,629	20,810	26,943	28,251	33,220	272,137	30,380	26,888
Delaware	6,126	6,204	9,154	8,573	10,152	94,781	7,962	7,845
District of Columbia	1,271	1,838	3,690	NA	4,663	30,160	4,208	3,484
Florida	141,241	NA	NA	103,049	109,657	1,460,030	103,203	110,969
Georgia	54,100	52,727	60,285	62,884	80,707	723,871	72,241	63,183
Hawaii	279	279	278	268	302	3,280	273	266
Idaho	5,617	7,200	10,472	13,302	14,519	105,099	14,932	12,434
Illinois	59,668	79,880	126,525	139,672	165,604	1,081,674	127,538	120,221
Indiana	58,064	64,487	91,134	90,487	107,065	845,769	89,356	83,049
Iowa	29,024	30,814	43,017	46,388	50,650	430,892	43,703	41,274
Kansas	16,271	NA	26,174	32,565	34,645	268,810	29,986	26,678
Kentucky	19,349	20,316	32,972	29,261	39,720	320,641	30,621	31,681
Louisiana	137,702	132,532	130,167	125,679	142,020	1,526,045	125,440	119,260
Maine	2,910	3,076	4,384	4,643	5,206	45,644	4,333	4,244
Maryland	15,723	16,470	32,624	32,815	36,626	278,133	30,212	25,536
Massachusetts	21,984	29,459	46,921	50,876	60,285	430,435	48,067	39,981
Michigan	56,022	75,281	112,040	116,668	138,847	937,906	108,212	95,084
Minnesota	28,190	38,691	54,521	65,389	66,729	476,852	54,726	48,207
Mississippi	43,784	39,365	41,550	40,079	45,690	548,035	37,695	41,201
Missouri	16,181	18,689	35,199	41,036	47,043	312,738	37,625	35,844
Montana	NA	5,563	8,965	11,654	9,673	79,300	9,924	8,403
Nebraska	11,334	11,412	17,832	21,250	21,315	176,587	19,155	17,694
Nevada	18,878	19,614	25,184	NA	29,162	295,801	26,393	22,582
New Hampshire	1,904	4,082	4,926	4,364	5,651	49,777	4,294	4,624
New Jersey	42,421	52,490	79,340	86,306	97,013	764,817	87,450	69,445
New Mexico	12,486	13,105	15,528	18,171	21,048	177,812	21,885	17,096
New York	69,993	90,304	147,142	152,041	183,093	1,323,836	147,811	131,446
North Carolina	NA	36,508	52,825	53,364	62,054	579,528	56,660	54,775
North Dakota	5,228	6,116	8,042	9,093	9,435	72,080	7,898	6,901
Ohio	64,316	81,547	126,281	129,694	150,411	1,089,087	128,675	115,699
Oklahoma	43,103	44,087	54,670	57,338	66,087	641,039	56,361	53,925
Oregon	10,805	18,870	28,055	30,120	30,886	249,327	29,430	25,699
Pennsylvania	80,806	78,997	NA	NA	NA	1,189,861	125,579	110,360
Rhode Island	7,007	6,832	9,646	9,091	10,492	99,428	9,466	8,814
South Carolina	25,983	24,235	26,925	27,815	31,867	325,591	28,561	32,184
South Dakota	NA	6,272	8,233	9,652	9,507	82,924	8,844	7,900
Tennessee	25,957	23,439	40,898	39,199	50,251	383,325	41,987	37,429
Texas	307,969	279,321	320,885	313,283	363,070	3,907,756	337,503	306,166
Utah	NA	13,613	23,593	26,871	29,574	211,224	28,828	22,840
Vermont	727	1,065	1,608	1,797	NA	13,750	1,818	1,549
Virginia	39,151	41,110	NA	67,072	73,947	618,051	64,716	51,493
Washington	15,587	22,247	30,817	36,252	37,546	294,610	33,972	23,356
West Virginia	5,662	6,570	NA	9,940	12,631	99,423	10,743	9,895
Wisconsin	32,785	44,255	60,524	66,336	75,087	539,088	61,117	54,671
Wyoming	6,943	NA	9,406	10,307	11,139	95,092	10,834	9,300
Total	1,906,057	1,988,149	2,662,710	2,774,909	3,150,938	27,528,222	2,755,261	2,484,759

See footnotes at end of table.

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

(million cubic feet) – continued

State	2018							
	October	September	August	July	June	May	April	March
Alabama	58,329	61,612	61,430	63,114	57,581	59,532	55,814	56,394
Alaska	4,477	3,914	3,660	3,522	3,606	4,368	5,006	6,761
Arizona	34,654	39,981	42,732	41,253	31,853	26,261	23,884	21,709
Arkansas	27,656	23,144	28,092	29,036	27,519	27,623	29,594	32,368
California	168,758	160,608	178,300	185,941	143,312	138,918	145,815	188,136
Colorado	29,828	21,694	22,114	23,638	21,717	24,902	29,303	36,474
Connecticut	20,900	17,951	20,588	19,549	16,875	14,833	21,289	27,169
Delaware	8,098	6,817	8,282	6,660	5,209	6,156	8,440	10,757
District of Columbia	1,878	992	1,231	1,087	1,175	1,094	2,296	3,973
Florida	134,698	143,679	143,536	143,657	132,048	118,784	111,246	109,089
Georgia	53,287	54,740	56,350	58,027	53,803	52,170	48,373	64,337
Hawaii	272	257	281	277	270	266	276	273
Idaho	7,752	7,401	6,481	6,841	4,906	4,493	6,691	10,071
Illinois	71,263	50,733	51,983	52,599	47,913	53,223	95,044	118,981
Indiana	55,326	50,014	55,142	58,259	54,471	59,921	70,882	84,658
Iowa	32,757	27,568	28,518	29,131	26,697	28,791	37,598	41,280
Kansas	17,218	14,099	15,881	17,663	16,941	18,880	23,088	24,645
Kentucky	23,988	21,388	21,141	20,968	17,786	20,359	24,355	32,066
Louisiana	126,507	130,140	130,294	134,626	131,659	130,995	119,646	120,283
Maine	4,547	3,172	4,209	3,754	2,873	2,688	3,296	4,359
Maryland	21,306	17,329	17,871	16,839	14,670	19,918	22,297	31,801
Massachusetts	25,867	22,131	28,736	26,528	18,904	19,253	34,995	50,795
Michigan	65,655	43,004	46,595	44,415	42,415	53,856	89,082	111,552
Minnesota	31,282	23,067	24,964	25,734	23,421	26,898	43,218	50,429
Mississippi	37,039	45,845	51,015	51,365	46,433	47,102	46,352	42,497
Missouri	20,524	13,657	14,868	15,542	15,051	15,861	24,142	32,573
Montana	6,196	4,105	3,967	3,764	3,790	4,368	6,340	8,335
Nebraska	13,570	9,462	9,628	11,263	9,980	11,425	15,564	16,862
Nevada	21,238	25,358	28,557	30,039	24,442	20,171	20,473	24,858
New Hampshire	4,707	3,417	5,241	5,244	4,184	2,176	3,156	3,678
New Jersey	49,491	45,130	49,843	51,045	40,505	40,387	67,384	88,815
New Mexico	12,378	12,477	13,905	13,736	13,369	12,964	12,772	15,138
New York	89,405	74,020	87,874	85,899	69,048	70,347	112,278	143,135
North Carolina	45,055	41,614	45,748	48,428	40,903	36,643	39,489	58,188
North Dakota	6,041	4,429	4,313	4,556	4,383	4,641	6,485	7,140
Ohio	78,463	57,425	61,126	58,341	55,512	56,081	95,059	119,479
Oklahoma	45,146	51,448	56,144	60,396	54,845	55,614	47,997	45,244
Oregon	20,589	20,732	21,463	20,221	11,671	9,239	16,733	25,195
Pennsylvania	90,242	79,960	87,135	83,280	73,079	66,705	94,664	126,292
Rhode Island	9,207	8,324	9,106	8,101	6,455	5,710	7,600	8,799
South Carolina	28,112	30,392	29,414	29,700	26,023	21,612	20,949	26,563
South Dakota	5,852	4,755	5,143	5,470	5,180	6,172	7,396	7,681
Tennessee	27,011	26,158	26,062	26,047	24,414	21,528	29,550	34,642
Texas	295,612	316,750	359,078	379,424	325,127	324,797	280,078	307,418
Utah	16,568	12,102	13,819	14,113	11,185	11,100	14,110	21,460
Vermont	1,005	644	601	593	625	622	1,258	1,540
Virginia	38,164	49,260	49,097	49,537	47,889	40,291	39,634	60,150
Washington	23,397	23,521	23,059	22,460	15,534	13,999	21,432	30,797
West Virginia	7,606	5,936	5,881	5,745	4,932	5,349	8,553	10,909
Wisconsin	39,209	28,698	31,300	30,518	26,766	27,726	45,806	57,434
Wyoming	7,663	5,927	5,728	8,120	5,542	5,946	8,022	9,202
Total	2,065,795	1,946,978	2,097,527	2,136,063	1,864,488	1,852,758	2,144,801	2,572,384

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				
	February	January	Total	December	November	October	September	August
Alabama	48,376	69,167	626,061	58,958	52,345	50,635	51,606	57,032
Alaska	7,394	7,886	68,886	7,583	7,406	5,181	3,963	3,770
Arizona	22,325	23,449	308,777	25,907	19,205	27,097	29,421	35,563
Arkansas	31,568	38,506	300,561	34,246	21,281	23,497	22,071	22,502
California	180,072	196,144	2,054,707	210,229	168,291	168,723	166,173	183,306
Colorado	47,058	50,470	354,615	47,905	32,408	25,787	19,687	20,988
Connecticut	24,603	31,112	234,405	28,638	22,784	15,458	13,570	15,964
Delaware	8,574	9,980	98,098	9,314	6,827	7,289	7,824	8,118
District of Columbia	3,711	5,029	28,325	5,086	2,348	1,444	1,145	1,144
Florida	98,326	110,796	1,370,281	104,470	101,364	122,407	124,176	140,857
Georgia	58,145	89,216	682,730	77,084	57,431	51,310	49,063	57,877
Hawaii	261	309	3,104	259	257	249	250	253
Idaho	10,828	12,270	105,406	14,678	11,140	8,211	7,089	6,443
Illinois	128,769	163,406	994,663	145,759	97,925	63,890	49,299	48,854
Indiana	82,188	102,504	711,062	95,323	66,560	50,029	46,194	44,553
Iowa	43,283	50,293	380,666	45,789	37,090	28,021	25,308	26,008
Kansas	29,419	34,313	237,779	30,208	23,070	16,149	14,825	15,975
Kentucky	29,195	47,093	270,884	36,591	26,328	16,866	17,332	18,968
Louisiana	117,896	139,299	1,433,486	132,932	117,568	124,013	119,599	125,119
Maine	3,583	4,586	43,131	4,217	3,216	2,904	2,387	3,099
Maryland	26,277	34,077	214,909	33,279	23,738	11,357	11,937	10,676
Massachusetts	53,895	61,282	440,736	58,012	38,033	26,389	24,628	27,825
Michigan	105,912	132,125	845,450	124,221	85,615	55,173	41,901	42,448
Minnesota	59,495	65,411	439,049	59,057	44,229	27,503	21,102	22,426
Mississippi	41,640	59,851	505,328	50,008	39,988	37,170	40,834	46,961
Missouri	37,688	49,362	255,059	41,080	24,599	13,131	13,105	13,101
Montana	10,006	10,103	72,935	10,347	8,010	6,357	4,223	3,650
Nebraska	20,020	21,962	158,914	19,012	15,114	11,376	8,892	9,529
Nevada	24,567	27,125	290,049	27,072	21,424	22,978	22,604	26,895
New Hampshire	3,545	5,511	51,885	5,483	4,985	3,038	4,401	4,544
New Jersey	75,957	99,365	700,909	92,817	55,931	45,173	39,322	40,980
New Mexico	14,725	17,368	144,696	17,187	11,370	10,639	9,707	10,714
New York	134,845	177,728	1,212,277	160,951	107,806	67,681	67,683	74,087
North Carolina	46,370	65,655	500,255	60,580	46,756	37,169	35,872	37,878
North Dakota	7,548	7,746	63,322	7,756	6,170	4,530	3,114	3,456
Ohio	112,446	150,781	901,427	135,755	95,273	58,258	48,304	49,237
Oklahoma	54,439	59,481	518,895	56,612	38,135	36,870	39,202	46,671
Oregon	22,527	25,827	241,882	32,883	24,092	22,277	18,674	20,483
Pennsylvania	110,042	142,522	1,111,688	128,570	99,442	86,399	77,841	79,375
Rhode Island	7,862	9,985	89,232	9,933	8,536	7,466	6,745	6,672
South Carolina	20,406	31,675	274,854	27,597	24,993	23,262	21,890	22,176
South Dakota	9,137	9,394	74,313	8,656	6,943	5,270	4,539	4,824
Tennessee	33,931	54,567	316,138	42,607	28,291	21,781	20,334	21,069
Texas	301,933	373,871	3,382,909	311,237	258,508	265,984	268,425	323,151
Utah	20,645	24,453	189,149	28,189	16,754	12,246	9,864	11,785
Vermont	1,499	1,997	11,935	1,748	1,258	680	590	562
Virginia	56,814	71,005	551,468	61,780	48,853	34,458	42,469	45,335
Washington	30,868	32,215	312,569	41,255	31,083	27,787	20,553	22,437
West Virginia	10,069	13,804	93,604	11,959	9,110	7,694	6,693	5,792
Wisconsin	63,856	71,987	484,143	68,746	49,484	33,773	26,745	28,474
Wyoming	9,228	9,582	82,365	9,277	7,348	6,434	5,008	5,018
Total	2,503,764	3,103,644	24,839,976	2,858,842	2,156,223	1,839,462	1,738,184	1,904,625

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017						
	July	June	May	April	March	February	January
Alabama	58,942	48,970	49,581	48,591	54,604	43,764	51,035
Alaska	3,640	3,758	4,526	5,275	7,782	7,340	8,664
Arizona	38,715	32,415	24,824	20,867	15,864	16,507	22,391
Arkansas	26,922	23,466	24,332	24,418	26,952	23,199	27,675
California	167,705	147,191	143,149	136,936	157,367	173,364	232,273
Colorado	22,109	18,914	23,304	27,438	30,706	34,544	50,824
Connecticut	16,267	13,383	13,238	16,375	25,362	24,215	29,153
Delaware	8,942	8,351	8,784	5,860	9,778	8,085	8,926
District of Columbia	1,161	1,218	1,560	1,735	3,655	3,321	4,508
Florida	136,438	120,874	123,676	106,055	104,328	89,494	96,143
Georgia	55,518	51,549	50,665	45,224	58,897	59,499	68,614
Hawaii	244	270	244	256	271	259	292
Idaho	6,517	4,426	5,077	6,365	7,733	10,781	16,946
Illinois	56,476	49,981	57,636	66,639	112,945	102,944	142,316
Indiana	45,742	41,905	43,954	50,782	74,728	66,139	85,152
Iowa	26,158	24,158	25,904	28,214	36,605	34,739	42,670
Kansas	17,810	15,593	14,121	17,214	21,403	20,972	30,440
Kentucky	20,685	17,948	17,574	20,204	27,536	21,757	29,095
Louisiana	124,316	118,608	117,460	115,414	116,062	104,097	118,299
Maine	3,411	3,072	3,244	3,753	4,603	4,393	4,833
Maryland	11,948	10,392	11,474	12,503	27,017	22,993	27,594
Massachusetts	27,329	25,690	28,053	34,677	53,317	44,661	52,121
Michigan	43,331	41,389	51,557	57,101	102,279	87,899	112,536
Minnesota	24,604	23,730	26,343	34,062	49,052	45,992	60,947
Mississippi	49,569	41,370	42,437	37,779	44,393	33,260	41,559
Missouri	15,338	13,671	14,160	14,861	26,180	26,148	39,686
Montana	3,366	2,986	3,463	4,994	6,761	8,031	10,747
Nebraska	10,948	8,916	10,256	11,754	15,151	16,222	21,745
Nevada	27,543	24,320	20,345	18,969	22,106	24,569	31,224
New Hampshire	3,935	3,598	3,293	5,461	4,996	3,962	4,680
New Jersey	46,435	44,358	43,255	47,253	86,195	70,987	88,204
New Mexico	12,233	11,223	10,095	9,600	11,166	12,965	17,798
New York	77,343	71,058	71,120	82,945	148,126	130,150	153,327
North Carolina	37,776	34,442	33,827	31,130	48,774	43,700	52,351
North Dakota	3,458	4,303	4,696	5,333	6,711	6,098	7,698
Ohio	48,500	45,360	53,280	56,815	100,546	92,700	117,397
Oklahoma	53,689	42,824	38,479	39,698	38,607	36,756	51,353
Oregon	17,358	9,091	10,014	12,689	16,641	22,735	34,946
Pennsylvania	82,877	70,848	67,624	72,165	114,177	107,052	125,317
Rhode Island	7,029	5,289	5,420	8,279	8,514	7,099	8,249
South Carolina	22,384	20,483	22,876	20,328	24,964	20,750	23,152
South Dakota	5,236	4,923	5,057	5,589	7,151	7,048	9,078
Tennessee	21,803	20,854	18,567	22,115	33,050	29,489	36,178
Texas	342,291	301,980	261,950	247,168	262,349	245,420	294,445
Utah	11,208	10,729	10,620	13,864	14,758	18,582	30,551
Vermont	534	486	680	855	1,563	1,383	1,595
Virginia	46,923	44,730	35,705	33,919	53,629	48,001	55,663
Washington	19,349	12,537	15,855	20,546	26,011	31,239	43,918
West Virginia	5,740	5,278	5,351	5,934	10,104	8,950	10,999
Wisconsin	28,388	23,977	26,152	31,260	54,903	48,942	63,301
Wyoming	4,834	5,002	6,172	6,767	8,206	8,346	9,952
Total	1,951,019	1,731,883	1,711,026	1,754,030	2,324,578	2,161,544	2,708,559

^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: Monthly vehicle fuel estimates for 2017 and 2018 have been revised. This correction also affects the balancing item and total consumption for the applicable months. No annual numbers were affected. 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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	NA	3.71	3.90	3.58	3.81	3.26	3.31	NA
Alaska	8.18	7.47	7.04	7.62	8.26	8.82	8.76	8.53
Arizona	NA	3.59	4.29	2.35	2.62	2.33	1.36	NA
Arkansas	NA	4.36	5.01	3.29	5.24	6.36	NA	NA
California	2.99	2.97	3.43	2.95	2.57	2.53	2.34	2.33
Colorado	3.56	3.48	4.01	2.80	4.47	3.87	3.33	3.75
Connecticut	5.75	5.52	4.71	5.92	8.05	8.40	8.55	8.73
Delaware	6.24	5.71	5.98	8.54	11.94	11.99	11.96	11.41
District of Columbia	--	--	--	--	--	--	--	--
Florida	NA	6.70	5.72	7.95	7.12	8.25	NA	6.89
Georgia	3.87	3.82	4.23	3.57	3.51	3.42	3.59	3.83
Hawaii	17.86	20.10	16.41	18.98	17.52	16.47	16.81	17.26
Idaho	NA	2.49	2.95	2.25	2.13	NA	NA	NA
Illinois	3.30	3.58	3.85	2.30	2.85	2.78	2.95	2.81
Indiana	NA	3.83	3.97	2.94	3.71	3.90	3.83	3.90
Iowa	NA	3.93	4.20	2.91	3.84	2.91	3.16	3.39
Kansas	NA	4.15	4.74	NA	5.98	4.93	4.83	5.83
Kentucky	NA	3.79	3.98	3.20	3.10	3.01	2.93	3.39
Louisiana	NA	3.90	4.03	3.16	3.10	3.11	3.23	3.45
Maine	NA	7.58	6.38	NA	4.32	4.72	5.03	4.57
Maryland	5.26	4.85	4.99	6.93	8.60	7.26	9.06	7.94
Massachusetts	NA	6.53	5.40	6.21	10.35	11.44	NA	NA
Michigan	NA	3.35	3.60	2.73	2.38	NA	NA	2.81
Minnesota	NA	3.73	3.98	2.65	3.48	3.79	3.88	3.70
Mississippi	3.89	3.98	4.47	3.62	3.59	3.50	3.47	3.86
Missouri	4.40	4.33	4.96	3.84	6.81	7.62	7.84	7.28
Montana	NA	3.02	3.32	NA	NA	NA	2.60	3.27
Nebraska	3.80	3.90	4.26	2.76	3.88	3.66	3.77	3.69
Nevada	NA	3.48	4.27	3.31	3.36	3.32	3.34	3.13
New Hampshire	NA	7.13	5.74	3.89	6.88	NA	7.48	6.67
New Jersey	NA	4.62	4.37	4.81	5.57	6.01	NA	4.43
New Mexico	NA	2.99	3.62	2.08	2.80	2.35	1.88	NA
New York	4.54	4.94	4.40	5.09	7.52	7.95	8.29	7.30
North Carolina	4.14	3.96	4.25	4.42	5.30	5.60	5.77	5.02
North Dakota	3.62	3.55	4.28	2.94	3.32	3.37	3.35	3.49
Ohio	NA	3.87	3.90	3.80	3.78	3.73	NA	3.68
Oklahoma	3.85	3.74	4.71	3.48	4.32	4.12	4.11	4.35
Oregon	3.65	3.96	4.01	3.17	3.82	4.51	5.03	4.20
Pennsylvania	NA	4.31	4.48	3.64	5.80	8.06	NA	7.37
Rhode Island	2.56	2.32	2.22	2.32	2.38	2.44	2.49	2.53
South Carolina	3.88	4.16	4.20	3.51	3.76	3.39	3.47	3.67
South Dakota	3.65	3.63	4.14	2.77	3.96	3.89	3.82	3.85
Tennessee	3.69	3.97	4.16	3.23	3.64	3.64	3.63	4.06
Texas	3.13	5.18	4.72	2.58	2.59	2.89	2.80	2.54
Utah	NA	5.13	5.14	4.07	2.88	2.67	2.83	2.86
Vermont	3.96	4.60	5.06	3.17	3.28	3.23	3.57	3.56
Virginia	4.81	4.58	4.78	5.20	5.84	7.81	6.72	6.78
Washington	NA	3.46	3.60	3.00	3.11	3.71	3.89	3.48
West Virginia	NA	3.83	3.99	3.73	4.86	NA	5.39	4.78
Wisconsin	3.95	4.08	4.32	3.01	4.48	3.92	3.72	4.18
Wyoming	NA	3.65	3.93	NA	NA	1.73	1.67	NA
Total	3.91	4.13	4.22	3.40	4.13	4.20	4.16	4.05

See footnotes at end of table.

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

State	2019					2018		
	May	April	March	February	January	Total	December	November
Alabama	3.74	3.48	3.59	3.65	3.99	3.87	4.80	3.87
Alaska	8.29	8.40	8.14	8.49	7.76	7.33	6.91	6.91
Arizona	NA	NA	3.03	2.97	3.30	3.47	3.02	3.39
Arkansas	NA	4.98	4.09	3.83	4.80	4.42	4.80	4.46
California	2.12	2.56	3.57	3.71	3.40	3.29	5.07	3.31
Colorado	3.02	3.36	3.80	3.57	3.80	3.63	4.05	3.97
Connecticut	6.69	5.58	4.70	4.70	4.98	5.55	5.88	5.30
Delaware	8.84	7.38	4.97	4.54	4.37	5.59	5.03	5.44
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.20	7.29	7.42	7.95	7.05	6.88	7.29	7.79
Georgia	3.83	3.92	3.83	4.00	4.36	4.02	5.35	4.13
Hawaii	21.98	21.85	18.51	15.60	13.97	19.63	16.51	18.18
Idaho	2.20	2.03	3.15	NA	2.43	2.44	2.42	2.22
Illinois	2.80	3.05	3.96	3.24	3.58	3.69	3.89	4.06
Indiana	NA	3.37	3.83	3.47	3.69	3.87	3.98	3.96
Iowa	NA	NA	3.95	3.62	4.00	4.11	4.83	4.56
Kansas	5.19	4.19	3.99	3.28	3.70	4.21	4.69	3.94
Kentucky	NA	3.80	3.51	3.46	3.59	3.92	4.71	3.81
Louisiana	NA	3.48	4.02	4.16	4.52	4.00	4.47	4.28
Maine	NA	5.32	7.41	8.15	8.55	8.00	9.87	8.18
Maryland	7.10	6.32	4.57	4.63	4.39	5.03	6.25	4.69
Massachusetts	6.11	4.95	5.05	4.79	4.93	6.37	6.35	5.32
Michigan	2.81	3.10	3.41	3.37	3.55	3.48	4.16	3.50
Minnesota	NA	3.09	4.52	NA	4.45	4.03	5.02	4.64
Mississippi	3.90	4.03	3.93	3.96	4.09	4.21	5.13	4.58
Missouri	6.20	4.69	3.92	3.71	3.92	4.40	4.91	4.25
Montana	NA	2.71	3.27	2.89	3.21	3.02	3.26	2.75
Nebraska	3.34	3.48	4.17	3.70	4.29	4.11	4.88	4.45
Nevada	2.80	3.32	4.30	NA	4.25	3.99	5.65	4.70
New Hampshire	3.99	4.03	5.37	6.36	7.99	7.12	7.29	6.86
New Jersey	4.30	4.84	4.79	5.02	4.75	4.68	4.98	4.69
New Mexico	NA	NA	2.62	NA	3.45	3.05	3.42	2.82
New York	5.15	4.09	3.62	3.58	4.35	4.87	4.57	4.74
North Carolina	5.86	4.36	3.74	3.55	3.76	4.13	4.78	4.33
North Dakota	3.08	3.39	3.98	3.53	4.13	3.82	4.91	4.15
Ohio	3.74	3.54	3.67	3.84	3.99	3.97	5.35	3.34
Oklahoma	3.93	3.80	3.91	3.65	3.97	3.83	4.38	3.60
Oregon	3.90	3.03	3.74	3.83	3.27	3.87	3.44	3.88
Pennsylvania	6.53	4.84	4.71	4.13	4.38	4.49	5.14	4.83
Rhode Island	2.55	2.59	2.60	2.59	2.58	2.37	2.55	2.49
South Carolina	3.91	4.14	4.17	4.19	4.45	4.36	5.33	4.90
South Dakota	2.97	3.31	4.10	3.51	4.12	3.87	4.83	4.20
Tennessee	3.57	3.78	3.65	3.59	3.87	4.10	4.77	4.07
Texas	2.44	3.36	3.18	3.38	3.60	5.04	4.61	4.63
Utah	NA	4.07	5.34	5.70	5.53	5.17	5.92	4.53
Vermont	3.69	4.01	4.27	4.18	4.56	4.64	4.90	4.56
Virginia	6.67	5.46	4.18	4.22	4.23	4.69	5.26	4.69
Washington	3.70	3.41	NA	NA	3.41	3.65	3.91	4.29
West Virginia	4.40	3.87	3.71	3.56	3.70	3.86	4.10	3.71
Wisconsin	3.90	3.65	4.17	3.99	4.20	4.19	4.75	4.28
Wyoming	NA	2.96	3.80	3.62	4.02	3.74	4.09	3.81
Total	3.65	3.68	4.01	3.85	4.04	4.23	4.72	4.28

See footnotes at end of table.

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

State	2018							
	October	September	August	July	June	May	April	March
Alabama	4.06	3.71	3.70	3.81	3.93	3.81	3.57	3.48
Alaska	6.73	6.44	6.34	6.39	6.43	7.02	6.76	8.00
Arizona	2.87	2.67	2.28	3.04	3.23	2.88	3.01	4.18
Arkansas	4.81	5.93	5.81	6.20	5.86	4.47	4.47	4.03
California	2.73	3.24	6.35	2.02	2.67	2.34	2.42	2.76
Colorado	3.45	4.38	4.40	4.09	4.04	3.55	3.04	3.31
Connecticut	5.92	7.99	7.94	7.92	7.94	7.10	4.72	4.10
Delaware	6.76	7.80	10.35	10.70	9.50	8.13	5.40	4.34
District of Columbia	--	--	--	--	--	--	--	--
Florida	7.54	7.11	7.00	7.21	6.48	7.24	6.52	7.24
Georgia	4.03	3.91	3.75	3.99	3.87	3.79	3.37	3.62
Hawaii	21.26	20.04	18.48	20.03	20.87	22.70	21.03	19.73
Idaho	1.70	2.49	1.72	2.07	2.46	2.39	2.00	2.87
Illinois	3.70	3.58	4.36	3.43	3.46	4.16	3.33	3.30
Indiana	3.83	4.21	4.83	4.67	4.53	4.33	3.25	3.61
Iowa	3.92	4.34	4.47	3.77	3.99	3.92	3.44	3.62
Kansas	4.46	7.02	5.44	5.05	5.61	5.83	3.64	3.83
Kentucky	3.74	3.57	3.51	3.48	3.64	3.64	3.64	3.89
Louisiana	3.93	3.70	3.50	3.70	3.64	3.67	3.72	3.94
Maine	5.09	6.37	7.06	6.92	6.51	6.09	5.39	6.40
Maryland	5.53	6.49	6.41	7.20	6.51	6.61	4.59	3.90
Massachusetts	5.65	10.28	11.82	10.96	9.51	6.31	5.35	4.69
Michigan	3.34	3.17	3.12	3.15	3.14	3.27	3.05	3.32
Minnesota	3.61	4.10	4.87	4.14	4.31	3.40	3.12	3.62
Mississippi	4.19	3.68	3.45	3.71	3.83	3.85	3.71	3.90
Missouri	4.60	6.60	7.20	7.02	6.61	6.36	3.93	3.71
Montana	2.27	2.86	3.13	2.62	2.86	2.29	2.94	3.09
Nebraska	3.80	4.07	4.53	4.26	4.24	3.93	3.12	3.79
Nevada	3.65	3.70	3.01	3.40	3.48	3.08	3.34	3.20
New Hampshire	4.93	8.57	9.77	9.35	3.66	6.11	4.38	5.01
New Jersey	4.55	4.72	4.96	4.70	4.65	4.15	4.29	4.34
New Mexico	2.54	2.77	3.25	2.93	3.00	2.45	2.41	3.08
New York	5.04	8.32	8.45	8.05	7.08	6.08	3.56	3.19
North Carolina	4.59	5.65	5.75	6.07	5.78	5.20	3.87	3.26
North Dakota	3.39	5.00	4.54	3.20	2.79	1.57	2.88	3.25
Ohio	5.22	3.34	2.86	4.70	4.11	4.27	3.45	3.56
Oklahoma	4.03	4.28	4.41	5.02	4.52	3.66	3.44	3.60
Oregon	3.94	5.01	5.53	5.85	4.74	4.88	3.54	3.43
Pennsylvania	4.68	7.33	7.53	6.81	6.06	7.17	3.74	3.73
Rhode Island	2.46	2.43	2.41	2.39	2.35	2.35	2.33	2.32
South Carolina	4.30	4.15	4.09	4.13	4.16	4.20	4.21	3.90
South Dakota	3.59	4.80	4.68	4.09	3.59	2.32	2.91	3.25
Tennessee	3.95	4.01	3.81	4.09	3.97	3.95	3.63	3.82
Texas	4.90	4.67	4.81	4.79	4.76	4.56	5.43	5.30
Utah	4.05	3.62	3.29	2.89	3.86	4.64	5.52	5.54
Vermont	4.18	4.08	4.07	3.97	3.77	3.86	4.61	4.75
Virginia	5.50	6.22	6.37	6.09	5.95	5.68	4.60	3.62
Washington	4.12	4.79	3.77	4.70	4.52	3.64	3.18	3.01
West Virginia	4.39	5.36	5.72	7.36	5.01	4.12	3.47	3.40
Wisconsin	3.99	4.79	4.55	4.41	4.62	4.04	3.44	3.75
Wyoming	3.22	3.24	3.61	3.28	3.08	3.43	3.26	3.80
Total	4.10	4.72	5.25	4.50	4.49	4.14	3.65	3.69

See footnotes at end of table.

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

State	2018							2017
	February	January	Total	December	November	October	September	August
Alabama	4.26	3.37	3.80	3.42	3.62	3.77	3.67	3.90
Alaska	8.25	8.24	7.03	6.94	7.02	6.59	6.29	5.83
Arizona	4.25	4.49	4.36	4.36	5.06	3.87	3.93	4.01
Arkansas	3.98	3.85	4.70	3.79	4.56	5.40	6.30	6.67
California	3.12	2.91	3.45	3.66	3.24	2.95	3.09	3.22
Colorado	3.40	3.39	3.90	3.44	3.88	3.96	5.10	4.65
Connecticut	5.04	4.85	4.44	3.70	3.71	4.22	5.66	5.79
Delaware	4.52	4.99	5.60	4.46	5.19	8.31	10.40	10.64
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.77	5.65	5.77	5.60	6.41	6.32	5.62	5.09
Georgia	4.56	3.60	4.15	3.91	3.80	4.08	4.23	4.04
Hawaii	18.34	18.74	16.62	17.11	18.23	16.69	17.18	17.63
Idaho	2.85	2.67	2.90	2.72	2.90	2.24	2.27	2.41
Illinois	3.35	3.91	3.76	3.59	3.55	3.46	4.20	4.13
Indiana	3.78	3.96	3.85	3.55	3.71	3.68	4.34	4.74
Iowa	4.15	4.06	4.30	4.96	3.90	3.71	3.83	3.87
Kansas	3.72	3.71	4.51	3.83	4.24	5.08	6.26	5.72
Kentucky	4.08	3.77	3.92	3.74	3.84	3.66	3.70	3.41
Louisiana	4.30	4.17	4.02	4.06	3.92	3.91	3.84	3.85
Maine	8.95	10.35	6.50	7.90	4.99	6.17	5.66	6.09
Maryland	4.55	4.64	4.73	4.10	4.27	5.36	6.79	6.83
Massachusetts	3.59	9.36	5.28	5.24	4.60	6.28	8.86	9.24
Michigan	3.69	3.38	3.57	3.56	3.47	3.35	3.10	3.09
Minnesota	3.92	3.74	4.24	5.61	3.72	3.46	3.17	4.33
Mississippi	4.49	4.01	4.39	4.03	4.55	4.45	4.49	4.62
Missouri	3.90	3.72	4.63	3.73	4.11	5.02	7.09	7.68
Montana	3.29	3.39	3.28	3.20	3.22	2.47	2.35	3.41
Nebraska	4.06	4.05	4.31	4.74	3.95	3.71	4.63	4.45
Nevada	3.63	3.76	4.13	3.47	4.18	3.73	4.01	4.39
New Hampshire	7.91	9.96	5.86	6.87	4.82	5.29	8.23	7.41
New Jersey	4.55	5.05	4.27	4.08	3.93	3.60	3.71	4.37
New Mexico	3.32	3.17	3.51	3.15	3.41	3.22	3.41	3.60
New York	3.41	6.36	4.29	3.90	4.17	5.11	7.08	7.11
North Carolina	3.88	3.46	3.92	3.02	3.54	4.42	5.09	5.41
North Dakota	4.15	4.24	4.28	4.36	4.17	4.23	4.38	4.03
Ohio	4.45	3.66	3.96	4.22	3.89	3.57	4.13	3.93
Oklahoma	3.69	3.61	4.52	3.96	4.51	4.84	6.16	5.95
Oregon	3.47	3.61	3.90	3.44	3.76	3.75	4.69	5.97
Pennsylvania	4.19	3.85	4.26	3.64	4.00	4.47	6.06	6.36
Rhode Island	2.32	2.25	2.22	2.22	2.20	2.21	2.29	2.34
South Carolina	4.22	4.21	4.13	3.81	3.88	3.93	4.13	3.99
South Dakota	4.17	3.91	4.39	5.60	4.11	3.80	4.42	4.36
Tennessee	4.18	4.07	4.09	3.88	3.98	4.00	4.20	4.17
Texas	5.42	5.39	4.80	4.94	5.32	4.96	4.47	4.09
Utah	6.35	5.77	5.30	5.76	5.78	4.95	3.85	3.70
Vermont	5.15	5.29	5.03	5.07	4.70	4.56	4.48	4.44
Virginia	3.79	4.45	4.53	3.92	4.00	4.99	6.26	7.41
Washington	3.28	3.19	3.51	3.21	3.32	2.79	3.93	4.78
West Virginia	3.89	3.36	3.86	3.52	3.61	3.88	4.89	5.87
Wisconsin	4.36	4.04	4.24	3.90	4.25	4.21	4.59	4.55
Wyoming	3.95	3.91	3.92	3.83	4.01	3.82	3.45	3.82
Total	3.99	4.36	4.16	4.00	3.97	4.03	4.52	4.61

See footnotes at end of table.

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

State	2017						
	July	June	May	April	March	February	January
Alabama	4.02	3.96	4.02	3.73	3.66	4.18	4.03
Alaska	5.76	5.69	6.02	6.96	7.42	7.54	7.99
Arizona	4.14	4.14	3.75	3.98	4.95	4.71	4.37
Arkansas	6.72	6.85	5.73	5.83	4.35	4.37	4.17
California	3.47	3.55	3.38	3.31	3.15	3.59	3.87
Colorado	5.09	4.68	3.98	3.66	3.65	3.91	3.92
Connecticut	6.08	6.58	5.85	4.97	3.53	4.45	4.45
Delaware	10.42	9.94	7.65	6.85	4.26	4.62	4.34
District of Columbia	--	--	--	--	--	--	--
Florida	5.77	5.16	5.24	6.21	5.70	5.96	6.09
Georgia	4.20	4.28	4.18	4.29	3.72	4.43	4.69
Hawaii	16.17	15.06	16.46	16.05	17.38	16.20	15.34
Idaho	2.47	3.29	3.04	2.71	3.31	3.14	3.17
Illinois	3.76	3.63	3.48	4.15	4.06	3.56	3.95
Indiana	4.97	4.87	4.28	4.25	3.72	3.89	3.81
Iowa	4.08	4.52	4.10	4.36	4.08	4.42	4.51
Kansas	5.39	6.61	5.86	4.81	3.99	4.18	4.24
Kentucky	3.59	3.73	4.05	4.46	3.83	4.19	4.16
Louisiana	3.99	4.37	4.08	3.94	3.96	4.37	3.91
Maine	7.67	5.46	5.00	5.30	5.54	7.58	7.36
Maryland	6.96	7.19	6.25	6.06	4.05	4.69	4.43
Massachusetts	9.61	9.04	6.38	5.46	4.06	4.53	4.66
Michigan	3.10	3.35	3.43	3.78	3.48	3.71	3.84
Minnesota	4.46	4.49	3.80	3.51	3.77	4.23	4.30
Mississippi	4.66	4.78	4.59	3.95	3.88	4.20	5.02
Missouri	7.26	7.15	5.86	5.15	4.07	4.45	4.21
Montana	2.90	3.30	3.61	3.47	3.54	3.56	3.46
Nebraska	4.17	5.07	4.20	4.02	3.87	4.71	4.30
Nevada	4.50	4.52	4.13	4.40	4.05	4.34	4.46
New Hampshire	8.42	5.39	5.50	4.64	4.37	6.07	6.59
New Jersey	4.61	4.73	4.56	4.26	4.32	4.48	4.52
New Mexico	3.59	3.61	3.43	3.31	3.35	3.82	3.93
New York	7.37	7.02	6.00	4.24	3.27	3.64	3.85
North Carolina	5.83	5.87	5.28	4.91	3.36	3.72	3.87
North Dakota	3.92	4.35	3.99	4.11	3.88	4.53	4.58
Ohio	3.89	3.82	3.80	3.87	3.64	4.08	4.09
Oklahoma	5.87	5.90	5.44	4.64	4.22	4.26	4.46
Oregon	5.71	5.08	4.56	3.90	3.59	3.59	3.69
Pennsylvania	6.69	6.67	5.36	4.85	3.86	4.20	4.07
Rhode Island	2.37	2.41	2.36	2.30	2.20	2.18	2.12
South Carolina	4.14	4.25	4.27	4.47	3.98	4.43	4.47
South Dakota	4.40	4.60	3.77	3.90	3.79	4.38	4.35
Tennessee	4.49	4.28	4.07	4.40	3.91	4.16	4.24
Texas	4.19	4.28	4.59	4.43	4.85	5.14	5.28
Utah	3.69	4.90	4.79	4.78	5.94	5.97	5.37
Vermont	4.31	4.74	4.69	5.26	4.98	5.69	5.67
Virginia	7.24	6.71	5.68	5.47	4.03	4.15	3.90
Washington	4.21	4.18	4.26	3.64	3.04	3.47	3.77
West Virginia	5.58	6.37	4.87	4.26	3.32	3.68	3.63
Wisconsin	4.76	5.24	4.24	4.08	3.82	4.39	4.46
Wyoming	3.98	3.79	3.24	3.71	3.89	4.23	4.27
Total	4.73	4.82	4.42	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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	15.87	15.50	16.34	22.59	23.49	23.23	22.57	21.42
Alaska	11.19	11.24	10.47	11.48	12.64	14.78	15.28	13.83
Arizona	13.74	16.11	15.84	16.94	20.53	21.53	20.38	18.17
Arkansas	11.74	12.26	13.19	18.54	20.94	21.28	20.03	18.60
California	13.46	12.19	12.70	13.35	13.01	13.23	13.83	12.97
Colorado	8.24	8.22	8.45	7.41	12.75	14.01	13.42	11.26
Connecticut	15.18	14.09	14.40	18.52	22.69	24.90	23.90	20.41
Delaware	12.10	13.06	12.80	20.64	23.51	24.39	23.29	19.90
District of Columbia	13.14	11.84	12.87	18.92	17.32	20.66	21.00	17.79
Florida	21.67	21.42	21.23	25.76	25.42	26.53	26.81	25.50
Georgia	17.18	15.06	18.88	26.23	31.03	30.25	29.60	28.92
Hawaii	44.06	43.53	38.71	45.19	45.36	42.41	43.34	42.98
Idaho	6.60	7.64	7.95	6.44	8.32	9.79	9.55	8.86
Illinois	8.59	8.53	9.63	9.39	17.86	18.95	18.53	14.88
Indiana	9.18	9.03	9.92	11.16	19.55	23.03	20.57	18.96
Iowa	NA	9.09	9.45	9.70	19.10	NA	NA	14.16
Kansas	NA	10.95	11.75	9.85	22.15	22.38	21.26	19.81
Kentucky	11.48	11.04	12.60	16.40	26.17	26.35	27.11	24.95
Louisiana	11.70	11.90	13.46	17.23	17.20	16.51	16.82	16.13
Maine	NA	16.44	14.85	16.17	23.32	NA	26.10	20.04
Maryland	12.98	11.87	13.45	16.84	21.09	21.37	21.17	19.75
Massachusetts	14.99	15.73	13.28	13.98	16.31	17.10	16.49	14.76
Michigan	8.31	8.40	8.82	8.49	12.92	14.21	13.25	11.51
Minnesota	8.35	8.85	8.75	7.48	11.42	13.06	14.62	11.58
Mississippi	10.99	10.50	12.35	17.34	17.04	17.15	16.83	16.64
Missouri	10.79	10.65	12.09	17.50	25.18	25.17	24.33	20.17
Montana	NA	7.47	7.68	7.51	10.39	NA	9.79	8.28
Nebraska	8.56	8.58	9.23	11.17	15.80	16.78	15.27	13.29
Nevada	9.36	9.69	8.81	12.29	14.66	15.55	14.49	12.61
New Hampshire	16.11	15.38	14.43	19.15	23.55	24.10	21.56	17.14
New Jersey	9.86	9.03	8.95	11.73	12.83	13.60	12.88	11.71
New Mexico	NA	8.33	9.45	11.63	13.81	NA	11.38	13.31
New York	12.99	12.52	12.22	16.96	20.04	20.20	19.92	17.11
North Carolina	NA	12.64	14.56	21.91	25.41	22.03	24.53	NA
North Dakota	7.34	7.41	8.25	8.52	16.57	21.07	19.82	12.14
Ohio	10.18	9.48	10.63	15.44	28.77	29.31	27.28	23.28
Oklahoma	NA	9.86	11.92	22.01	27.06	NA	25.33	20.61
Oregon	NA	11.07	10.81	9.90	12.98	15.37	13.63	NA
Pennsylvania	NA	11.57	11.64	NA	20.23	21.41	20.54	18.40
Rhode Island	15.64	15.71	13.92	19.61	21.49	21.92	20.92	18.12
South Carolina	NA	14.69	15.92	25.89	24.59	26.00	24.17	23.85
South Dakota	NA	7.71	8.40	8.33	15.70	15.05	NA	9.70
Tennessee	9.89	9.81	10.76	16.11	18.77	20.12	18.46	17.46
Texas	11.00	12.03	13.80	21.13	22.40	22.22	20.17	17.64
Utah	7.83	9.52	8.93	7.73	9.79	10.08	9.44	7.74
Vermont	13.37	13.87	14.17	16.80	21.50	22.91	21.66	17.07
Virginia	13.01	11.75	12.88	18.71	20.89	22.68	21.64	20.05
Washington	9.69	10.80	10.89	9.31	12.38	15.19	14.27	13.24
West Virginia	10.25	10.09	9.55	11.82	19.22	19.02	18.12	18.32
Wisconsin	7.93	8.09	8.73	7.77	13.44	14.38	14.31	11.91
Wyoming	8.38	8.97	9.26	10.11	17.25	18.34	15.36	9.87
Total	10.99	10.83	11.38	12.62	17.81	18.58	17.94	15.72

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		
	May	April	March	February	January	Total	December	November
Alabama	18.72	15.61	14.44	13.93	13.86	15.22	13.78	15.55
Alaska	11.58	11.06	10.39	10.33	10.14	10.99	10.17	10.38
Arizona	16.12	14.27	12.00	11.64	11.65	15.35	12.27	14.15
Arkansas	14.85	11.08	9.94	9.85	10.72	11.77	10.04	10.32
California	13.04	13.31	13.65	13.44	13.88	12.30	13.10	11.95
Colorado	8.69	8.16	7.61	7.53	7.18	7.72	6.28	6.69
Connecticut	17.06	15.30	13.73	13.36	13.18	13.92	13.46	13.19
Delaware	15.77	11.67	10.60	10.07	10.52	12.60	10.39	12.36
District of Columbia	15.72	12.87	11.42	11.70	12.23	11.78	11.25	12.09
Florida	22.75	20.96	20.38	18.03	18.05	21.34	19.43	23.57
Georgia	23.76	15.66	12.50	12.59	11.98	13.98	11.01	11.56
Hawaii	47.85	48.74	43.69	42.74	38.92	43.48	42.94	43.42
Idaho	7.57	6.84	6.09	5.98	5.99	7.11	5.93	6.12
Illinois	10.36	8.48	7.10	7.19	6.86	8.15	7.29	6.91
Indiana	12.32	9.59	7.50	7.33	7.24	8.72	8.13	7.74
Iowa	10.94	8.56	7.80	7.33	7.49	8.94	8.39	8.73
Kansas	15.07	NA	8.15	7.91	8.32	10.18	8.52	7.75
Kentucky	19.75	12.04	8.65	9.20	8.82	10.56	9.02	9.68
Louisiana	14.15	11.11	10.11	8.89	10.36	11.65	10.07	12.03
Maine	16.05	16.26	15.76	16.41	15.84	16.32	16.84	14.56
Maryland	15.85	14.35	11.46	11.19	11.16	11.79	11.82	11.17
Massachusetts	14.80	15.25	14.77	14.68	15.06	15.47	15.21	13.44
Michigan	9.72	8.47	7.65	7.50	7.29	8.19	7.78	7.43
Minnesota	8.68	8.05	7.62	7.80	8.10	8.69	8.65	7.82
Mississippi	13.66	10.35	9.36	9.25	9.55	10.38	9.67	10.54
Missouri	14.22	10.72	8.62	8.49	8.84	10.36	9.25	9.85
Montana	7.51	6.98	6.44	6.52	6.68	7.32	6.68	6.93
Nebraska	10.12	8.30	6.97	7.16	8.18	8.54	8.25	8.69
Nevada	11.45	9.93	7.87	7.43	7.26	9.24	7.46	8.49
New Hampshire	15.70	14.81	14.66	15.51	16.16	15.35	15.45	14.83
New Jersey	10.62	9.23	9.38	9.34	9.21	9.09	9.11	9.49
New Mexico	7.35	NA	7.22	6.47	6.52	7.89	7.72	5.49
New York	14.03	12.13	10.88	11.47	12.31	12.37	11.64	12.18
North Carolina	NA	15.03	10.58	12.62	11.51	12.11	11.08	10.86
North Dakota	8.16	6.62	5.80	5.85	6.32	7.20	6.48	6.59
Ohio	14.62	9.91	7.45	7.26	7.39	9.10	7.96	8.24
Oklahoma	15.54	10.57	7.07	6.99	6.31	9.25	6.30	9.27
Oregon	12.52	11.06	9.15	8.46	9.60	10.65	9.68	9.64
Pennsylvania	14.98	13.55	10.96	10.53	10.43	11.25	10.35	10.30
Rhode Island	16.15	15.14	14.57	14.48	14.70	15.65	14.94	16.32
South Carolina	NA	13.97	11.61	11.57	10.85	13.53	11.12	10.81
South Dakota	7.74	7.17	6.62	6.74	7.02	7.66	7.26	7.86
Tennessee	14.49	9.87	8.13	8.46	8.42	9.47	8.31	8.83
Texas	15.31	10.52	8.26	8.28	8.20	11.42	8.65	10.71
Utah	7.58	7.69	7.57	7.72	7.58	9.04	7.58	7.50
Vermont	13.71	12.65	11.97	11.77	12.01	13.65	12.47	13.51
Virginia	17.66	13.16	11.49	11.47	10.83	11.71	11.36	11.92
Washington	11.53	10.12	8.95	8.35	8.75	10.28	8.73	9.10
West Virginia	13.40	10.38	9.18	9.12	9.02	9.84	8.96	9.40
Wisconsin	7.83	7.38	7.38	7.19	7.28	8.04	8.24	7.52
Wyoming	8.84	7.79	7.01	7.25	7.13	8.60	7.00	7.94
Total	12.88	10.94	9.49	9.47	9.45	10.50	9.61	9.41

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							
	October	September	August	July	June	May	April	March
Alabama	21.90	22.25	22.00	22.03	21.10	17.35	15.15	15.36
Alaska	11.01	12.22	13.05	13.76	12.72	11.84	11.28	10.77
Arizona	18.43	20.96	19.54	22.68	21.26	19.19	16.77	14.21
Arkansas	16.92	21.20	21.91	21.33	19.97	14.18	11.60	12.19
California	12.18	12.32	12.89	12.38	12.16	12.44	11.62	12.28
Colorado	7.98	13.25	14.71	17.33	14.52	10.53	7.44	7.36
Connecticut	16.51	22.40	23.74	22.34	20.94	16.76	13.18	12.76
Delaware	19.99	22.17	23.29	22.36	19.48	14.29	11.72	11.16
District of Columbia	16.83	18.47	19.11	18.51	14.51	12.42	10.79	11.32
Florida	26.74	25.82	27.41	26.28	24.27	22.87	20.26	19.86
Georgia	21.68	27.89	27.92	26.02	26.07	20.28	13.32	12.26
Hawaii	48.05	47.36	43.50	45.44	41.62	44.49	42.51	42.16
Idaho	7.02	9.35	10.37	10.38	9.59	9.20	7.73	7.10
Illinois	9.82	17.43	19.05	18.94	15.14	12.58	7.55	7.23
Indiana	10.62	20.22	19.36	20.13	18.77	15.32	8.03	7.53
Iowa	12.31	18.70	18.85	19.74	15.12	10.97	7.90	8.12
Kansas	12.34	18.88	22.63	22.04	18.50	15.34	11.93	10.07
Kentucky	14.77	24.25	24.73	24.87	24.35	18.36	9.60	9.16
Louisiana	17.28	16.99	17.80	17.35	16.33	13.67	12.61	13.31
Maine	15.77	23.77	24.78	25.90	20.27	17.05	15.61	15.49
Maryland	14.22	20.88	21.09	19.57	18.44	14.39	10.35	9.82
Massachusetts	13.32	16.07	16.62	15.87	14.62	16.75	17.75	15.71
Michigan	8.25	12.34	13.38	13.52	13.48	11.94	7.93	7.60
Minnesota	8.77	12.21	14.85	15.27	12.86	11.25	8.17	7.88
Mississippi	16.68	16.94	18.01	17.83	16.94	13.11	10.14	10.95
Missouri	16.91	23.62	25.13	24.34	22.43	13.70	9.78	9.51
Montana	7.72	10.45	11.53	10.14	9.06	7.66	7.07	7.16
Nebraska	11.42	17.50	17.84	15.61	15.77	10.03	7.73	7.74
Nevada	11.01	13.47	14.46	13.86	12.72	11.55	9.92	8.24
New Hampshire	18.70	22.78	22.73	21.07	17.88	16.60	15.68	15.51
New Jersey	9.89	12.02	12.63	12.08	11.27	9.24	7.72	8.74
New Mexico	10.74	13.57	13.20	12.91	11.33	9.41	8.01	7.35
New York	17.15	20.15	20.83	20.10	19.32	14.19	11.29	12.09
North Carolina	17.31	25.37	21.73	24.76	21.56	20.82	13.25	10.46
North Dakota	8.21	17.49	21.43	20.79	15.45	8.71	6.49	6.09
Ohio	12.57	25.45	27.69	26.39	25.36	14.91	8.07	7.27
Oklahoma	19.64	25.23	26.73	25.78	22.93	12.39	9.03	8.00
Oregon	11.16	13.86	16.63	14.88	14.00	13.46	10.94	9.71
Pennsylvania	13.19	19.29	20.38	19.71	17.91	14.10	10.77	10.42
Rhode Island	20.46	24.74	25.64	23.96	20.78	17.88	16.41	14.89
South Carolina	21.08	28.56	27.11	29.97	26.54	22.06	13.77	10.79
South Dakota	8.82	14.93	15.75	14.62	11.72	7.99	6.94	7.04
Tennessee	14.87	19.09	23.27	19.81	18.55	11.88	9.16	9.09
Texas	16.88	21.97	23.73	21.54	20.10	16.15	12.86	11.12
Utah	8.67	10.23	10.43	10.24	10.26	9.44	9.22	9.01
Vermont	17.01	22.18	23.69	22.01	19.07	14.28	12.54	13.16
Virginia	15.98	19.70	20.67	20.57	18.33	14.27	10.99	9.41
Washington	10.60	13.27	15.81	14.99	13.36	12.99	10.34	9.93
West Virginia	10.96	17.79	18.80	18.19	17.75	13.89	9.63	9.27
Wisconsin	7.88	12.53	14.51	14.04	12.37	10.21	6.92	7.32
Wyoming	10.43	16.69	17.35	15.99	12.94	9.50	8.40	7.77
Total	12.23	17.23	18.56	17.84	16.47	13.52	10.05	9.76

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
	February	January	Total	December	November	October	September	August
Alabama	14.21	13.45	16.12	14.77	17.02	22.23	22.70	23.02
Alaska	10.61	10.59	10.52	10.66	10.65	11.17	12.13	13.39
Arizona	13.96	13.75	15.78	14.43	17.54	20.10	22.25	23.41
Arkansas	10.94	10.19	12.97	11.81	12.80	19.52	20.36	21.39
California	12.11	12.13	12.49	11.76	11.41	12.10	12.28	12.53
Colorado	6.65	6.64	8.08	6.84	7.39	8.44	12.16	13.78
Connecticut	12.70	12.03	13.95	11.94	13.42	19.83	21.74	22.65
Delaware	11.35	12.85	12.84	12.44	14.34	22.06	22.02	24.65
District of Columbia	11.32	10.31	12.53	10.47	13.14	18.88	19.33	21.24
Florida	18.58	17.89	21.15	19.68	22.41	24.91	24.61	26.56
Georgia	11.70	9.93	16.93	11.23	14.41	22.11	31.04	32.36
Hawaii	42.05	39.90	38.88	39.57	39.91	39.77	39.98	40.28
Idaho	6.93	7.35	7.65	6.82	7.15	7.43	9.46	10.87
Illinois	6.89	6.65	8.83	6.81	7.47	10.49	16.81	17.86
Indiana	7.96	6.87	8.94	6.55	7.77	10.50	17.75	20.64
Iowa	7.86	7.37	9.30	8.52	9.68	13.37	18.63	17.36
Kansas	8.92	8.72	10.95	9.01	8.97	14.19	21.03	22.55
Kentucky	9.62	8.48	11.62	9.03	10.65	14.80	22.54	24.81
Louisiana	10.14	8.91	13.04	10.76	13.25	16.51	16.48	17.30
Maine	16.50	14.68	14.61	13.59	14.14	18.92	23.14	24.48
Maryland	11.89	10.43	12.97	11.46	12.12	18.42	20.14	21.61
Massachusetts	16.26	14.27	13.32	13.78	12.74	12.29	15.45	15.95
Michigan	7.74	7.41	8.38	7.30	7.66	9.50	12.19	13.79
Minnesota	8.65	7.78	8.47	7.86	7.74	8.94	11.96	13.42
Mississippi	9.22	7.81	11.83	9.72	11.40	16.62	18.00	18.07
Missouri	8.65	8.19	11.78	9.87	12.26	22.35	25.34	27.74
Montana	6.91	6.97	7.62	7.42	7.47	8.21	10.53	11.64
Nebraska	7.44	6.96	9.01	7.91	8.69	14.15	17.19	17.53
Nevada	8.15	8.12	8.82	8.26	9.97	11.06	12.81	14.10
New Hampshire	13.93	13.28	14.55	14.36	16.92	22.75	24.80	25.25
New Jersey	8.61	8.85	9.14	9.53	10.00	11.24	11.55	12.09
New Mexico	7.13	7.14	9.22	8.05	9.02	12.87	14.89	15.78
New York	11.23	9.51	12.04	10.52	13.07	17.17	18.12	19.06
North Carolina	13.53	9.77	13.29	10.70	11.93	19.66	22.88	23.14
North Dakota	5.95	5.85	7.64	6.05	6.47	9.09	15.60	20.47
Ohio	7.58	6.42	9.72	7.02	8.76	15.20	23.41	27.32
Oklahoma	7.40	6.74	11.40	8.65	11.14	24.54	26.70	29.06
Oregon	9.67	10.69	10.59	9.77	10.43	11.18	14.68	16.69
Pennsylvania	10.83	9.99	11.40	10.37	11.33	16.67	17.47	20.03
Rhode Island	13.51	13.19	14.02	14.01	15.34	19.30	19.93	20.19
South Carolina	16.24	10.89	14.57	11.48	12.83	19.35	25.03	26.44
South Dakota	6.84	6.81	8.18	7.55	7.66	11.01	14.40	14.62
Tennessee	8.80	7.94	10.31	8.66	10.32	16.00	17.18	19.34
Texas	9.57	8.80	13.61	11.90	14.65	20.63	21.75	23.38
Utah	10.08	9.40	9.05	9.76	9.14	8.22	10.38	11.21
Vermont	12.01	12.60	14.12	13.22	15.43	19.84	21.13	22.39
Virginia	11.66	10.08	12.34	10.52	11.88	21.12	20.68	21.58
Washington	9.62	10.18	10.62	9.66	10.22	10.92	13.81	16.05
West Virginia	9.27	8.94	9.43	9.00	9.41	11.26	14.16	17.51
Wisconsin	7.64	7.37	8.40	7.51	7.87	9.12	13.59	14.31
Wyoming	7.75	7.61	9.01	7.97	8.45	9.55	15.05	17.86
Total	9.63	8.90	10.91	9.29	10.14	13.39	16.92	18.22

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						
	July	June	May	April	March	February	January
Alabama	22.20	21.19	20.62	16.23	14.55	14.65	13.46
Alaska	13.72	12.79	11.00	10.23	9.58	9.61	9.44
Arizona	22.74	20.48	18.19	16.82	15.32	12.66	12.70
Arkansas	20.16	18.25	15.66	14.02	12.52	11.81	10.40
California	12.55	13.14	12.96	12.51	12.41	12.65	13.10
Colorado	14.70	12.67	9.17	8.03	7.92	7.44	6.86
Connecticut	22.04	18.83	16.62	13.81	12.30	13.18	12.39
Delaware	22.84	18.85	16.02	12.07	11.34	11.04	10.65
District of Columbia	18.15	16.92	16.24	12.27	11.67	10.92	10.93
Florida	25.35	24.00	22.18	19.76	19.41	18.38	17.70
Georgia	32.46	29.54	27.28	18.18	13.66	13.56	11.83
Hawaii	39.99	37.63	39.21	38.06	38.69	37.91	36.66
Idaho	11.26	10.46	8.32	8.02	8.08	7.53	7.23
Illinois	16.91	15.32	11.11	10.22	7.95	8.40	7.58
Indiana	20.05	19.14	11.88	11.67	7.74	8.63	7.67
Iowa	17.65	14.96	10.83	8.95	7.71	7.98	7.62
Kansas	21.67	19.43	18.35	12.83	10.00	9.83	8.49
Kentucky	24.49	23.98	18.07	13.70	10.39	10.88	9.23
Louisiana	16.44	15.42	14.88	13.56	12.71	12.29	10.89
Maine	23.45	17.86	14.97	14.11	13.03	13.70	13.71
Maryland	20.23	18.91	16.53	14.62	10.86	12.26	11.35
Massachusetts	15.46	13.48	13.63	13.22	12.90	13.11	12.91
Michigan	14.46	13.24	9.89	9.22	7.77	7.98	7.59
Minnesota	13.38	12.49	9.71	8.45	7.64	8.07	8.06
Mississippi	17.37	16.11	15.02	12.82	10.64	10.67	10.02
Missouri	26.35	21.52	15.46	12.35	10.48	9.32	8.28
Montana	10.99	9.59	8.08	7.51	7.38	7.29	6.73
Nebraska	16.79	14.15	10.36	8.70	7.87	7.93	7.38
Nevada	13.23	11.62	10.63	8.99	7.76	7.10	6.96
New Hampshire	22.46	16.35	14.31	12.22	12.75	13.60	13.26
New Jersey	11.86	10.28	9.65	8.31	8.65	8.16	8.36
New Mexico	15.10	12.74	10.44	9.03	8.07	8.16	7.86
New York	19.14	16.28	14.45	11.09	10.81	11.04	9.86
North Carolina	22.49	23.15	19.75	17.86	11.65	13.82	11.72
North Dakota	21.81	19.58	13.05	7.59	6.46	6.79	5.92
Ohio	26.38	23.66	14.37	10.27	7.74	8.16	7.13
Oklahoma	25.92	21.84	15.91	13.17	10.28	8.78	7.13
Oregon	15.42	14.27	12.23	10.98	10.67	9.89	9.16
Pennsylvania	19.33	16.78	12.99	11.68	10.32	10.32	9.70
Rhode Island	19.15	16.38	15.11	13.18	12.79	12.72	12.58
South Carolina	24.68	24.33	21.98	17.13	11.79	15.05	13.40
South Dakota	14.52	12.01	9.06	7.73	7.46	7.80	6.89
Tennessee	18.74	16.89	14.15	10.96	9.62	9.29	8.55
Texas	20.92	18.54	17.09	15.59	12.24	10.61	9.57
Utah	10.88	9.56	8.35	9.15	9.18	8.78	8.40
Vermont	21.62	18.03	15.03	12.94	12.53	12.47	12.79
Virginia	20.76	18.57	17.25	13.54	10.52	11.77	9.98
Washington	15.38	14.64	12.02	10.66	10.24	10.04	9.75
West Virginia	18.81	14.75	11.56	9.55	8.47	8.39	8.19
Wisconsin	15.03	12.99	8.98	9.03	7.49	7.56	8.05
Wyoming	17.26	12.41	10.07	9.32	8.51	8.09	7.51
Total	17.86	16.06	13.25	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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	11.90	11.99	12.05	12.67	12.80	12.80	12.70	12.29
Alaska	NA	10.17	9.74	10.29	10.70	NA	NA	NA
Arizona	7.33	8.92	8.90	7.11	7.20	7.34	7.28	7.45
Arkansas	8.05	8.07	8.32	8.50	8.95	9.51	9.24	9.20
California	9.41	8.36	8.84	8.75	8.70	8.90	8.90	8.33
Colorado	7.15	7.09	7.32	6.27	8.47	8.68	8.60	8.03
Connecticut	10.20	9.27	9.58	10.73	11.37	12.10	12.07	11.76
Delaware	NA	10.88	10.33	12.27	12.74	12.47	12.77	11.37
District of Columbia	11.45	10.28	10.98	11.10	10.56	12.22	12.43	12.12
Florida	NA	11.25	10.96	11.50	11.55	11.38	NA	NA
Georgia	8.48	8.32	8.96	8.69	8.51	8.61	8.74	8.52
Hawaii	30.39	31.23	27.22	31.17	30.43	28.36	28.74	29.71
Idaho	NA	6.33	6.75	5.23	5.66	5.99	5.98	6.10
Illinois	7.48	7.48	8.39	7.44	12.89	12.78	12.83	11.57
Indiana	7.21	7.50	8.11	6.78	9.39	11.39	11.13	10.62
Iowa	NA	6.76	6.91	5.30	7.17	7.41	NA	7.06
Kansas	NA	9.11	9.72	7.99	11.90	13.01	12.21	11.28
Kentucky	NA	8.66	9.46	10.34	11.87	12.34	13.14	NA
Louisiana	8.32	8.66	9.01	8.28	8.14	7.43	7.96	8.30
Maine	NA	12.78	11.38	NA	12.28	13.07	13.45	12.28
Maryland	NA	9.57	10.48	10.29	12.31	11.84	11.37	12.34
Massachusetts	12.20	13.05	10.06	10.13	11.02	11.21	11.20	11.32
Michigan	6.94	6.99	7.24	6.96	9.12	9.61	9.58	8.38
Minnesota	6.89	7.11	6.95	5.43	6.94	7.48	8.05	7.58
Mississippi	8.59	8.35	8.87	8.87	7.78	7.78	7.90	8.20
Missouri	7.82	8.00	8.41	9.29	10.02	10.15	10.33	9.74
Montana	NA	7.23	7.44	6.93	8.70	NA	8.38	7.73
Nebraska	NA	6.16	6.43	5.40	5.68	NA	6.24	6.01
Nevada	6.25	6.56	5.59	7.72	8.08	8.19	7.66	6.90
New Hampshire	12.78	12.81	11.62	13.85	16.76	17.12	16.11	13.41
New Jersey	9.10	8.82	9.09	8.93	9.19	9.08	8.86	9.54
New Mexico	NA	5.55	6.60	6.07	6.07	NA	5.85	6.34
New York	NA	7.34	6.89	6.78	6.07	6.06	6.23	6.64
North Carolina	NA	8.44	9.16	9.26	9.55	8.70	10.31	NA
North Dakota	5.79	5.88	6.08	5.30	6.27	7.02	7.10	6.35
Ohio	6.25	5.92	6.40	6.52	7.66	7.48	7.66	7.35
Oklahoma	7.57	7.43	8.67	13.79	14.75	15.97	14.46	13.09
Oregon	NA	8.69	8.86	7.95	8.75	9.35	8.61	NA
Pennsylvania	NA	9.54	9.30	NA	12.08	12.59	12.72	12.51
Rhode Island	13.20	12.98	11.21	17.15	18.39	19.19	18.65	15.56
South Carolina	8.61	9.18	9.27	8.69	7.52	8.12	9.05	8.48
South Dakota	NA	5.86	6.20	5.38	7.17	7.15	NA	5.98
Tennessee	8.26	8.55	8.83	8.50	9.01	8.92	8.31	8.91
Texas	5.85	6.74	7.70	7.03	6.92	6.78	6.49	6.09
Utah	6.31	7.70	7.28	5.91	6.50	6.61	6.28	5.72
Vermont	6.08	6.68	7.11	4.69	4.81	4.71	4.72	5.39
Virginia	NA	8.04	8.10	9.20	9.26	NA	9.13	10.42
Washington	7.21	8.24	8.39	7.25	8.24	8.59	8.42	8.18
West Virginia	8.27	8.25	7.62	8.86	10.43	10.33	10.29	10.66
Wisconsin	6.23	6.30	6.64	5.58	6.32	6.02	6.43	5.83
Wyoming	NA	6.81	6.99	NA	7.96	7.97	7.53	6.66
Total	7.78	7.86	8.01	7.63	8.33	8.41	8.45	8.22

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		
	May	April	March	February	January	Total	December	November
Alabama	12.10	11.83	11.56	11.48	11.43	11.89	11.41	11.71
Alaska	NA	NA	NA	9.38	9.35	9.99	9.32	9.60
Arizona	7.47	7.36	7.27	7.38	7.36	8.69	7.65	8.00
Arkansas	8.68	7.80	7.61	7.62	7.88	7.95	7.47	7.50
California	8.43	9.53	10.51	9.91	10.42	8.57	10.04	8.67
Colorado	7.11	7.09	7.10	7.04	6.77	6.83	6.04	6.27
Connecticut	10.92	10.49	9.45	9.36	9.11	9.23	9.26	8.87
Delaware	11.08	9.64	NA	9.17	9.09	10.49	8.66	10.03
District of Columbia	11.79	11.83	11.02	11.14	11.52	10.42	10.87	11.14
Florida	11.68	NA	11.23	11.30	NA	11.20	10.83	11.12
Georgia	8.57	8.13	7.78	7.91	9.31	8.17	7.45	8.13
Hawaii	34.09	34.63	30.95	29.57	26.65	30.96	28.81	30.45
Idaho	5.84	5.62	5.29	NA	5.31	6.03	5.29	5.37
Illinois	9.25	7.54	6.38	6.64	6.36	7.24	6.60	6.42
Indiana	8.86	7.80	6.39	6.42	6.45	7.37	7.11	6.87
Iowa	7.01	6.14	6.31	5.96	6.38	6.84	7.18	6.92
Kansas	10.24	NA	7.15	7.08	7.65	8.63	7.52	6.88
Kentucky	11.56	9.49	7.58	7.91	7.74	8.43	7.83	7.73
Louisiana	8.60	8.27	8.31	8.09	9.23	8.71	9.07	8.73
Maine	11.93	13.13	13.29	13.95	13.79	13.01	14.66	12.28
Maryland	NA	11.88	9.38	10.37	9.09	9.57	9.72	9.38
Massachusetts	12.11	12.49	12.52	12.32	12.68	12.84	12.91	10.74
Michigan	7.58	7.03	6.61	6.54	6.44	6.91	6.82	6.51
Minnesota	6.72	6.57	6.60	7.18	7.23	7.08	7.15	6.83
Mississippi	8.76	8.51	8.56	8.77	9.13	8.50	9.20	8.88
Missouri	8.43	7.52	7.20	7.05	7.43	7.95	7.59	8.12
Montana	NA	6.77	6.34	6.37	6.58	7.09	6.49	6.64
Nebraska	5.64	5.87	5.78	6.26	7.08	6.28	6.91	6.37
Nevada	6.68	6.19	5.36	5.24	5.38	6.34	5.53	5.74
New Hampshire	12.51	11.75	11.77	12.56	13.03	12.72	12.77	11.71
New Jersey	8.42	7.86	9.00	9.14	9.85	9.01	9.89	9.25
New Mexico	NA	NA	5.38	5.15	5.27	5.57	5.62	5.73
New York	7.18	7.22	7.51	7.95	NA	7.36	7.71	7.01
North Carolina	9.66	9.47	7.93	9.65	8.94	8.48	8.71	8.49
North Dakota	5.55	5.41	5.46	5.70	6.15	5.90	6.11	5.71
Ohio	6.61	6.22	5.68	5.79	6.09	5.92	6.06	5.78
Oklahoma	11.00	8.50	6.05	5.93	5.31	7.09	5.21	7.32
Oregon	8.68	8.23	7.70	7.39	7.93	8.48	7.90	7.93
Pennsylvania	NA	9.99	9.36	9.21	8.75	9.37	8.89	8.73
Rhode Island	13.46	12.44	12.21	12.13	12.30	12.98	12.42	14.07
South Carolina	8.34	8.60	8.36	9.00	9.05	9.35	11.28	8.54
South Dakota	5.47	5.25	5.21	5.46	5.84	5.91	6.04	6.14
Tennessee	9.04	8.00	7.60	8.21	8.18	8.41	8.04	7.83
Texas	5.97	5.38	5.32	5.50	5.55	6.55	5.75	5.90
Utah	5.76	6.27	6.42	6.50	6.41	7.37	6.38	6.08
Vermont	6.24	6.68	6.57	6.65	6.98	6.77	7.41	6.67
Virginia	8.30	9.03	8.09	8.58	8.38	8.08	8.33	8.08
Washington	7.57	7.34	6.74	6.61	6.73	7.90	6.81	6.91
West Virginia	9.78	8.39	7.72	7.75	7.63	8.11	7.65	7.75
Wisconsin	5.34	5.84	6.39	6.46	6.54	6.44	7.18	6.44
Wyoming	6.29	6.06	5.87	6.11	6.06	6.61	5.74	6.07
Total	8.08	7.76	7.44	7.58	7.70	7.78	7.70	7.34

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							
	October	September	August	July	June	May	April	March
Alabama	12.31	12.50	12.47	12.49	12.40	12.16	12.31	11.91
Alaska	9.89	10.62	10.86	11.45	10.86	10.54	10.18	9.91
Arizona	8.52	7.87	7.18	9.14	9.38	9.43	9.23	9.16
Arkansas	7.79	8.54	8.95	8.86	8.94	8.34	7.80	8.33
California	7.61	8.37	8.21	8.32	7.74	7.74	7.97	8.88
Colorado	6.81	9.30	9.19	10.82	9.04	8.42	6.49	6.80
Connecticut	10.20	11.09	10.77	11.12	11.41	11.43	8.61	8.47
Delaware	11.78	12.46	13.73	13.59	12.55	11.31	10.28	10.01
District of Columbia	10.61	10.79	10.62	10.65	9.20	10.16	10.24	10.13
Florida	10.89	11.63	11.40	11.17	11.32	11.15	11.08	10.97
Georgia	8.66	9.14	8.86	9.42	9.11	8.58	8.56	7.99
Hawaii	33.20	32.31	29.72	31.49	30.71	32.85	31.72	30.54
Idaho	5.45	6.41	6.66	6.88	6.61	6.91	6.49	6.20
Illinois	8.17	12.70	13.50	14.13	12.28	10.71	6.77	6.53
Indiana	7.21	10.69	10.63	11.63	10.67	11.02	6.98	6.74
Iowa	6.89	9.52	8.76	8.99	7.93	7.07	6.17	6.48
Kansas	8.93	12.39	12.85	13.20	12.20	11.71	9.72	9.06
Kentucky	9.43	10.72	12.42	12.76	12.91	10.91	8.07	8.10
Louisiana	8.91	8.27	8.37	8.61	8.72	8.60	8.79	9.35
Maine	11.26	12.84	13.81	13.74	12.35	12.34	12.97	13.18
Maryland	10.49	11.48	10.74	10.02	11.40	10.43	9.02	8.40
Massachusetts	9.46	10.79	10.92	10.57	10.24	13.62	15.37	14.80
Michigan	7.09	8.89	9.12	8.45	9.14	8.20	6.71	6.62
Minnesota	6.46	7.75	8.66	8.74	8.46	7.14	6.81	7.02
Mississippi	9.00	7.86	8.29	8.54	8.34	8.73	8.15	9.18
Missouri	9.66	10.13	10.46	10.43	10.08	7.97	7.82	7.76
Montana	7.22	9.06	9.25	8.97	8.43	7.38	6.89	7.10
Nebraska	6.30	6.75	6.70	6.40	6.29	5.56	5.77	6.33
Nevada	6.42	7.02	7.20	7.22	7.19	6.91	6.59	6.23
New Hampshire	13.97	16.90	16.76	16.42	13.77	13.76	13.50	13.25
New Jersey	8.43	9.31	9.35	9.24	9.11	8.32	7.32	9.21
New Mexico	5.92	6.02	5.80	5.61	5.45	5.34	5.33	5.50
New York	6.90	6.71	6.83	7.02	7.18	7.38	7.20	7.86
North Carolina	8.46	9.46	9.99	10.15	10.32	9.96	8.80	7.49
North Dakota	5.60	6.98	7.30	7.33	6.57	6.79	5.36	5.54
Ohio	6.32	7.45	7.68	7.87	7.15	6.64	5.57	5.46
Oklahoma	12.41	14.18	13.85	14.55	11.84	8.54	7.25	6.41
Oregon	8.52	9.23	9.93	9.55	9.30	9.21	8.74	8.15
Pennsylvania	9.92	10.89	11.90	12.27	11.74	10.86	9.63	8.91
Rhode Island	17.84	19.23	18.98	18.44	16.76	14.43	13.64	12.55
South Carolina	9.16	9.14	8.89	9.37	9.08	8.69	8.81	8.51
South Dakota	5.98	7.47	7.79	7.55	6.51	5.66	5.43	5.64
Tennessee	8.95	9.81	10.25	10.06	9.55	8.55	7.96	8.25
Texas	6.77	7.31	7.50	7.45	7.43	7.07	6.69	6.67
Utah	6.27	6.61	6.70	6.62	6.95	7.16	7.68	7.78
Vermont	5.81	5.62	5.43	5.66	5.36	6.12	6.65	7.01
Virginia	8.24	8.89	8.52	8.84	8.63	8.56	8.01	7.32
Washington	7.82	8.53	8.78	9.32	8.02	8.50	8.37	7.94
West Virginia	8.57	10.23	9.99	10.39	10.47	9.63	8.02	7.81
Wisconsin	5.69	6.45	6.89	6.56	5.84	6.02	5.67	6.23
Wyoming	6.73	7.30	7.16	6.97	7.02	6.91	6.93	6.68
Total	7.69	8.57	8.69	8.84	8.58	8.34	7.65	7.71

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
	February	January	Total	December	November	October	September	August
Alabama	11.85	11.45	12.04	11.86	12.22	12.64	13.00	13.10
Alaska	9.90	9.84	9.79	9.89	10.00	10.33	11.00	11.50
Arizona	9.13	9.20	8.97	9.17	9.44	9.40	9.35	9.50
Arkansas	7.92	7.69	8.34	8.34	8.56	8.61	8.68	9.24
California	9.13	8.91	8.76	8.64	8.00	7.78	7.95	8.31
Colorado	6.26	6.33	7.17	6.62	6.87	7.25	9.35	9.16
Connecticut	8.40	7.94	9.30	7.96	8.71	10.64	10.73	11.16
Delaware	10.08	10.71	10.37	10.35	10.88	12.52	11.82	13.39
District of Columbia	11.10	9.87	10.87	10.10	11.03	11.17	11.37	12.14
Florida	11.50	11.36	10.97	10.90	11.17	11.15	11.06	11.09
Georgia	8.09	7.73	8.78	8.14	8.54	9.03	9.33	9.70
Hawaii	32.16	28.12	27.41	28.25	28.45	27.38	28.06	28.56
Idaho	6.15	6.54	6.62	6.22	6.30	6.28	7.16	7.18
Illinois	6.34	6.18	7.78	6.16	6.59	7.89	12.05	13.59
Indiana	7.30	6.33	7.52	5.93	6.78	7.28	9.96	11.61
Iowa	6.63	6.22	6.87	6.96	6.51	6.52	9.05	9.29
Kansas	8.11	7.88	9.30	8.19	7.94	9.90	13.85	13.08
Kentucky	8.03	7.41	9.06	7.75	8.71	10.16	11.83	12.81
Louisiana	8.30	8.69	8.99	8.99	8.84	8.71	8.77	8.75
Maine	12.58	12.91	11.33	11.35	10.75	11.58	12.33	12.77
Maryland	10.21	8.91	10.27	9.38	10.00	12.03	12.57	12.47
Massachusetts	13.27	11.89	10.16	10.86	9.79	8.71	10.12	10.35
Michigan	6.78	6.49	7.02	6.40	6.61	7.57	8.47	9.65
Minnesota	6.99	7.01	6.80	6.53	6.23	6.48	7.44	8.08
Mississippi	8.51	7.69	8.82	8.59	8.66	8.59	9.25	8.70
Missouri	7.30	7.40	8.44	8.16	9.18	10.55	10.65	11.19
Montana	6.77	6.90	7.42	7.39	7.24	7.72	8.82	9.67
Nebraska	6.41	5.99	6.37	6.19	6.10	6.48	6.78	6.93
Nevada	6.23	6.21	5.71	6.06	6.40	6.48	6.50	6.75
New Hampshire	11.84	11.15	11.71	11.83	12.78	15.10	16.06	16.06
New Jersey	9.40	8.91	9.14	9.27	9.47	9.13	8.59	9.45
New Mexico	5.45	5.57	6.59	6.19	7.25	7.60	7.41	7.43
New York	7.86	7.22	6.87	6.93	6.65	6.50	6.02	5.96
North Carolina	8.33	7.55	8.92	8.11	8.54	8.83	9.05	8.88
North Dakota	5.71	5.92	6.00	5.89	5.67	5.93	6.48	7.15
Ohio	5.59	5.39	6.11	5.31	5.48	6.55	7.45	7.82
Oklahoma	6.19	5.80	8.44	6.89	8.63	14.71	15.16	16.05
Oregon	8.00	8.87	8.74	8.28	8.57	8.84	9.84	10.44
Pennsylvania	9.42	8.75	9.16	8.74	8.79	10.35	11.11	11.59
Rhode Island	11.15	10.88	11.30	11.35	12.45	15.04	15.45	15.73
South Carolina	10.27	9.46	9.30	9.44	9.30	8.56	9.05	8.86
South Dakota	5.57	5.82	6.26	6.74	5.97	5.96	7.51	7.68
Tennessee	8.37	8.08	8.74	8.24	8.80	9.47	9.38	9.65
Texas	6.46	6.14	7.71	7.78	7.72	8.22	8.35	8.37
Utah	8.47	8.02	7.40	8.26	7.34	6.44	7.07	7.40
Vermont	7.62	7.94	7.04	7.19	6.17	6.07	6.04	6.06
Virginia	8.74	7.48	7.99	7.57	7.90	8.43	8.60	9.00
Washington	8.07	8.30	8.30	7.93	8.15	8.35	9.15	9.86
West Virginia	7.91	7.65	7.65	7.66	7.86	8.56	8.93	9.37
Wisconsin	6.75	6.50	6.60	6.54	6.49	5.84	6.92	6.85
Wyoming	6.76	6.67	6.92	6.61	6.74	6.96	7.41	7.45
Total	7.74	7.39	7.88	7.42	7.51	7.97	8.52	8.76

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						
	July	June	May	April	March	February	January
Alabama	13.14	12.83	12.76	12.20	11.52	11.29	11.18
Alaska	11.62	11.02	9.75	9.40	9.12	9.18	9.16
Arizona	9.22	9.03	8.96	9.10	8.94	8.33	8.29
Arkansas	9.27	9.16	8.79	8.56	8.25	8.13	7.59
California	8.40	8.74	8.68	8.81	9.47	9.34	9.60
Colorado	9.53	9.01	7.28	6.97	7.09	6.91	6.56
Connecticut	10.98	10.69	10.74	9.24	8.33	9.51	8.61
Delaware	12.79	11.67	10.95	9.94	9.76	9.61	9.44
District of Columbia	12.26	12.26	11.58	11.06	11.06	10.66	9.47
Florida	10.97	11.06	11.00	10.86	10.93	11.04	10.58
Georgia	9.36	9.79	9.38	9.09	8.55	8.85	8.40
Hawaii	27.37	26.30	26.98	26.98	27.41	27.16	26.22
Idaho	7.63	7.47	7.14	7.18	6.96	6.62	6.36
Illinois	12.44	12.52	11.00	9.13	7.25	7.59	6.90
Indiana	11.35	11.47	9.05	9.61	6.87	7.72	7.07
Iowa	9.56	8.98	7.77	6.84	6.12	6.40	6.41
Kansas	13.32	12.80	12.66	9.92	9.08	8.93	8.16
Kentucky	11.99	12.54	11.28	10.29	8.61	8.81	7.71
Louisiana	8.80	8.85	8.83	8.69	9.08	9.41	9.55
Maine	13.06	11.42	10.94	11.23	10.83	11.34	11.55
Maryland	11.29	12.15	11.74	11.46	9.17	9.96	9.53
Massachusetts	10.37	9.36	10.21	10.27	10.04	10.20	10.05
Michigan	9.15	9.00	7.92	7.31	6.80	6.86	6.65
Minnesota	7.72	8.11	7.04	6.80	6.36	6.94	7.08
Mississippi	8.70	8.47	8.85	8.94	8.69	9.10	9.04
Missouri	11.00	9.78	8.99	8.36	8.12	7.60	7.24
Montana	9.64	8.84	7.82	7.26	7.20	7.24	6.70
Nebraska	7.08	6.54	6.59	5.94	6.30	6.61	6.29
Nevada	6.40	5.90	5.85	5.38	5.14	5.02	5.09
New Hampshire	15.28	12.45	11.49	10.15	10.63	11.68	11.26
New Jersey	9.84	8.98	8.83	7.91	9.04	9.06	9.68
New Mexico	7.56	7.08	6.57	6.17	6.07	6.51	6.28
New York	6.64	6.87	6.89	6.99	7.15	7.51	6.82
North Carolina	8.63	9.94	10.69	10.16	8.35	9.88	8.67
North Dakota	7.65	7.57	6.52	5.68	5.67	6.32	5.74
Ohio	7.76	7.76	6.79	6.19	5.86	6.09	6.02
Oklahoma	14.86	13.30	11.40	9.56	7.91	6.88	5.94
Oregon	10.05	10.19	9.37	9.04	8.90	8.45	8.10
Pennsylvania	11.95	11.61	10.57	9.48	8.84	8.59	8.33
Rhode Island	15.38	13.10	12.02	10.63	10.42	10.45	10.02
South Carolina	9.04	8.95	8.64	9.66	8.58	10.15	10.31
South Dakota	7.63	7.41	6.26	5.83	5.77	6.43	5.77
Tennessee	9.56	9.41	9.13	8.76	8.50	8.56	8.33
Texas	8.19	7.70	7.57	7.62	7.19	7.51	7.40
Utah	7.28	6.83	6.51	7.47	7.71	7.48	7.29
Vermont	6.29	6.12	6.94	7.57	7.35	7.61	8.08
Virginia	8.77	9.19	8.98	8.05	7.19	8.45	7.45
Washington	9.48	9.40	7.68	8.27	8.22	8.22	8.03
West Virginia	9.54	9.48	8.28	7.71	7.09	7.02	6.97
Wisconsin	7.02	6.68	6.06	6.93	6.37	6.47	7.05
Wyoming	7.65	7.41	7.13	7.10	6.96	6.97	6.56
Total	8.81	8.75	8.31	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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	3.86	4.06	4.23	3.56	3.58	3.33	3.42	3.59
Alaska	5.84	5.76	4.62	5.99	6.04	5.35	5.47	5.41
Arizona	NA	6.24	6.42	4.16	3.95	3.73	NA	3.50
Arkansas	6.67	6.80	6.69	7.13	6.37	6.91	6.96	6.63
California	7.77	6.95	7.10	7.08	6.89	7.09	7.07	6.71
Colorado	5.75	5.34	5.73	5.24	5.77	5.81	5.84	5.90
Connecticut	6.99	6.46	6.56	5.99	6.13	6.65	6.64	7.32
Delaware	NA	10.02	9.73	9.89	NA	10.31	NA	10.71
District of Columbia	--	--	--	--	--	--	--	--
Florida	NA	6.32	6.19	5.48	6.30	5.71	NA	5.54
Georgia	4.34	4.47	4.72	3.97	3.81	3.78	3.93	4.09
Hawaii	NA	22.50	19.32	23.26	20.80	20.59	NA	23.22
Idaho	3.61	4.08	4.49	3.55	3.59	3.68	3.63	3.64
Illinois	NA	5.63	6.11	5.11	5.86	6.03	NA	7.21
Indiana	5.87	6.11	6.33	4.75	6.05	6.71	7.06	6.77
Iowa	4.74	5.14	5.15	4.44	4.37	3.89	4.12	4.50
Kansas	3.59	4.32	4.10	3.83	3.25	3.20	3.15	3.76
Kentucky	4.06	4.28	4.47	3.58	3.26	3.44	3.61	3.91
Louisiana	3.47	3.47	3.70	2.91	2.70	2.84	3.17	3.20
Maine	8.67	8.83	7.76	5.70	5.68	5.75	5.74	6.71
Maryland	NA	8.29	9.94	8.94	9.61	9.10	NA	9.85
Massachusetts	9.82	10.33	7.88	7.44	7.53	8.60	8.24	8.67
Michigan	6.08	5.96	6.04	6.05	6.82	6.98	6.92	6.41
Minnesota	4.35	4.67	4.52	3.30	3.67	3.76	3.61	4.11
Mississippi	NA	5.03	5.09	4.24	4.05	4.11	4.19	4.42
Missouri	6.18	6.49	6.57	5.49	5.26	5.45	5.47	5.69
Montana	5.81	6.48	6.53	5.54	5.50	5.00	5.59	5.69
Nebraska	4.25	4.42	4.58	3.64	3.63	3.73	3.97	3.74
Nevada	5.66	5.57	4.99	7.57	6.93	7.05	6.61	6.17
New Hampshire	9.18	9.71	8.92	6.60	6.50	6.76	6.50	6.55
New Jersey	NA	7.91	7.89	6.66	6.05	NA	7.08	6.61
New Mexico	3.51	3.59	5.01	3.85	3.78	3.59	3.34	2.72
New York	8.27	7.83	7.25	6.62	6.77	6.48	7.44	7.11
North Carolina	NA	6.13	6.26	5.44	5.47	5.64	5.79	5.91
North Dakota	2.73	3.02	3.03	2.76	2.02	2.07	2.15	2.25
Ohio	NA	6.70	6.85	NA	5.44	5.07	6.01	6.12
Oklahoma	2.46	2.46	3.35	2.04	1.92	1.87	2.19	2.08
Oregon	NA	5.04	5.33	4.73	4.72	4.66	4.40	4.86
Pennsylvania	NA	8.87	8.25	NA	NA	NA	8.46	8.48
Rhode Island	9.89	10.56	8.47	9.73	9.70	10.28	10.44	10.13
South Carolina	NA	4.74	4.86	2.95	5.03	3.73	4.01	4.21
South Dakota	NA	4.93	5.26	NA	NA	5.51	NA	4.64
Tennessee	4.59	4.84	5.03	3.87	3.69	3.61	3.91	4.13
Texas	2.90	3.23	3.32	2.54	2.53	2.39	2.59	2.82
Utah	4.75	5.31	5.47	4.38	4.31	4.34	4.39	4.28
Vermont	NA	4.44	5.00	3.60	3.82	3.72	3.83	4.02
Virginia	NA	5.00	5.07	4.12	4.47	NA	4.65	5.12
Washington	NA	7.46	7.38	NA	6.76	6.87	7.04	7.30
West Virginia	3.05	3.35	3.01	2.48	2.50	2.47	2.62	2.97
Wisconsin	5.14	4.89	5.26	4.75	4.70	4.54	4.02	4.35
Wyoming	3.99	3.95	4.30	4.28	4.20	4.03	3.41	3.81
Total	3.91	4.03	4.10	3.43	3.35	3.20	3.34	3.55

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		
	May	April	March	February	January	Total	December	November
Alabama	3.64	3.92	4.17	4.37	4.70	4.22	5.29	4.52
Alaska	5.65	5.67	6.10	6.18	6.09	5.81	5.85	6.12
Arizona	3.51	4.88	5.11	5.32	5.27	5.98	5.19	4.57
Arkansas	6.24	6.30	6.61	6.66	6.86	6.78	6.67	6.78
California	6.92	7.99	9.16	8.75	9.27	7.12	8.72	7.09
Colorado	5.73	5.47	5.76	6.07	5.78	5.28	4.98	5.16
Connecticut	7.32	7.40	7.52	7.22	7.20	6.55	7.39	6.45
Delaware	12.52	10.24	9.12	9.23	9.47	10.07	9.62	11.72
District of Columbia	--	--	--	--	--	--	--	--
Florida	5.47	5.75	6.30	6.42	7.40	6.38	7.23	6.04
Georgia	4.13	4.50	4.58	4.90	5.45	4.63	6.03	4.74
Hawaii	23.32	22.20	20.85	20.51	19.59	22.62	22.29	24.11
Idaho	3.61	3.60	3.64	3.62	3.57	3.98	3.57	3.62
Illinois	NA	6.24	NA	5.43	5.48	5.55	5.50	5.07
Indiana	6.16	5.86	5.69	5.66	5.87	6.10	6.12	6.04
Iowa	4.49	4.68	5.28	5.08	5.36	5.36	6.35	5.81
Kansas	4.28	4.94	5.78	6.42	6.94	4.38	6.97	6.35
Kentucky	3.93	4.09	3.87	5.34	5.24	4.40	5.27	4.53
Louisiana	3.28	3.51	3.69	4.42	5.22	3.53	4.09	3.69
Maine	6.95	10.69	10.89	11.02	11.00	9.26	11.08	10.66
Maryland	8.70	10.42	8.76	10.05	8.61	8.51	9.69	8.69
Massachusetts	9.62	10.86	10.48	10.70	10.90	10.31	11.11	9.06
Michigan	6.44	6.15	5.85	6.01	5.90	5.98	6.11	5.89
Minnesota	4.18	4.15	4.55	5.15	5.48	4.80	5.51	4.90
Mississippi	NA	NA	5.06	5.77	NA	5.14	5.89	5.37
Missouri	5.74	6.25	6.49	6.51	6.93	6.50	6.68	6.34
Montana	5.63	6.03	5.86	6.08	6.09	6.42	6.12	6.23
Nebraska	3.89	4.42	4.14	4.81	5.66	4.48	5.05	4.46
Nevada	5.76	5.33	4.80	4.46	4.51	5.35	4.40	4.71
New Hampshire	8.07	9.29	9.38	11.24	11.54	9.81	11.42	8.92
New Jersey	6.48	6.86	7.83	8.32	9.33	8.03	9.00	7.59
New Mexico	2.23	3.06	4.25	4.86	4.97	3.72	4.53	4.32
New York	7.91	8.25	8.63	9.27	9.47	7.83	8.21	7.27
North Carolina	5.90	5.99	NA	7.27	7.41	6.18	6.49	6.21
North Dakota	2.31	2.66	3.31	3.70	4.37	3.29	4.84	3.92
Ohio	6.42	6.24	6.36	6.62	6.31	6.65	6.33	6.68
Oklahoma	2.14	2.19	2.81	3.19	3.72	2.67	4.70	2.68
Oregon	NA	4.53	4.87	5.02	4.91	5.01	4.83	4.91
Pennsylvania	8.66	8.76	8.48	8.36	8.74	8.69	7.68	8.47
Rhode Island	10.17	10.02	9.62	9.59	9.70	10.46	9.72	10.57
South Carolina	NA	4.77	4.88	5.04	5.81	4.92	6.11	5.36
South Dakota	4.62	4.29	NA	4.75	5.23	5.02	5.31	5.11
Tennessee	4.30	4.72	5.17	5.45	5.81	4.94	5.84	4.90
Texas	2.83	2.93	3.03	3.25	3.90	3.42	4.86	3.87
Utah	4.26	4.89	5.34	5.23	5.37	5.31	5.61	4.86
Vermont	4.03	4.32	4.43	4.48	NA	4.55	5.24	4.72
Virginia	4.49	4.83	4.96	4.88	6.18	5.08	6.14	4.72
Washington	6.60	6.49	6.43	6.30	NA	7.17	6.10	6.45
West Virginia	2.92	3.21	3.55	3.54	4.08	3.54	4.84	4.09
Wisconsin	4.44	4.82	5.69	5.47	5.85	5.20	6.80	5.86
Wyoming	3.91	3.69	3.89	4.29	4.21	3.92	3.71	3.86
Total	3.64	4.00	4.32	4.64	5.03	4.21	5.48	4.52

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							
	October	September	August	July	June	May	April	March
Alabama	4.00	3.88	3.82	3.84	3.83	3.84	3.84	3.87
Alaska	6.08	6.13	5.99	6.13	5.45	5.65	5.02	5.40
Arizona	5.93	5.56	5.03	6.36	6.41	6.41	6.20	6.89
Arkansas	6.63	6.77	7.04	7.05	6.64	6.53	6.59	7.08
California	6.19	7.13	8.16	6.52	6.17	6.17	6.44	7.53
Colorado	5.50	3.04	6.62	7.03	6.93	5.78	5.17	5.53
Connecticut	6.31	6.08	6.29	6.53	6.83	6.86	6.44	6.49
Delaware	11.17	10.82	9.98	10.35	9.77	9.96	9.35	9.57
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.08	5.54	6.22	5.95	5.57	6.44	6.55	6.91
Georgia	4.42	4.41	4.30	4.42	4.13	4.39	4.62	4.46
Hawaii	24.19	23.38	22.37	23.04	23.32	23.05	22.04	21.57
Idaho	3.49	4.09	4.06	4.20	4.12	4.23	4.18	4.09
Illinois	5.75	6.50	7.42	7.17	6.12	5.51	5.00	5.16
Indiana	5.11	7.91	7.16	7.23	6.42	6.29	5.96	5.72
Iowa	5.05	5.37	4.79	4.46	4.33	4.37	5.17	5.28
Kansas	5.21	4.38	4.11	4.13	4.15	4.18	4.40	4.54
Kentucky	4.35	4.06	3.90	3.94	3.90	4.04	4.13	4.42
Louisiana	3.46	3.27	3.55	3.24	3.40	3.56	3.10	3.76
Maine	5.89	5.80	5.81	6.43	6.32	6.83	11.20	11.75
Maryland	8.19	10.65	9.30	9.25	8.99	8.73	8.20	7.73
Massachusetts	7.01	6.91	7.79	7.46	7.68	10.62	13.39	12.40
Michigan	6.18	6.52	6.94	6.14	6.68	6.21	5.83	5.89
Minnesota	4.57	4.56	4.59	4.57	4.58	4.43	4.16	4.43
Mississippi	4.80	4.68	4.79	4.87	4.78	4.79	4.87	5.43
Missouri	5.92	5.82	5.71	5.86	5.68	6.03	7.03	6.86
Montana	6.00	6.10	5.86	5.70	6.25	6.26	6.86	6.61
Nebraska	4.36	4.30	4.28	4.16	3.78	3.79	4.18	5.09
Nevada	4.92	5.70	5.81	6.04	6.22	5.85	5.54	5.47
New Hampshire	6.98	6.93	7.77	7.86	7.51	10.84	11.69	10.88
New Jersey	6.52	6.93	8.02	6.93	6.67	6.61	6.70	8.96
New Mexico	4.36	3.59	3.17	2.79	2.48	2.99	3.79	4.67
New York	7.06	7.31	7.42	7.97	8.09	7.99	7.95	8.54
North Carolina	5.83	5.60	5.82	5.74	5.80	5.95	6.08	5.88
North Dakota	2.94	2.83	2.83	2.77	2.69	2.69	2.62	2.75
Ohio	6.95	7.55	7.45	8.29	7.76	6.94	6.37	6.50
Oklahoma	2.32	2.16	2.37	2.44	2.24	2.06	1.73	2.58
Oregon	4.93	4.98	5.00	5.05	4.79	4.91	4.95	5.21
Pennsylvania	8.65	9.81	9.18	10.10	9.86	8.78	8.63	8.68
Rhode Island	11.37	11.12	10.97	11.63	11.46	11.41	11.29	10.14
South Carolina	4.55	4.59	4.34	4.66	4.40	4.35	4.40	4.68
South Dakota	6.33	6.00	5.49	5.58	4.78	4.38	4.23	4.86
Tennessee	4.45	4.32	4.29	4.52	4.36	4.59	4.82	5.17
Texas	3.50	3.21	3.02	3.22	3.25	3.13	3.01	2.89
Utah	4.51	4.57	4.55	4.49	5.01	5.15	5.66	5.94
Vermont	4.35	4.30	4.26	4.22	4.14	4.18	4.22	4.33
Virginia	5.10	4.96	5.30	4.95	4.86	4.99	4.61	4.98
Washington	7.05	7.41	7.82	7.65	7.13	7.62	7.46	7.55
West Virginia	3.34	3.21	3.18	3.28	3.20	3.16	3.10	3.13
Wisconsin	4.65	3.82	4.03	3.97	4.31	4.03	4.25	5.31
Wyoming	4.37	3.69	3.51	3.22	3.25	3.92	4.30	4.20
Total	4.04	3.76	3.68	3.77	3.78	3.81	3.91	4.02

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	
	February	January	Total	December	November	October	September	August
Alabama	4.82	4.68	4.23	4.32	4.12	3.92	3.89	3.93
Alaska	5.68	5.79	4.63	4.73	4.59	4.02	3.63	3.16
Arizona	6.95	6.55	6.47	6.57	6.92	6.72	6.77	7.26
Arkansas	6.83	6.77	6.65	6.46	6.60	6.61	6.64	7.00
California	7.56	7.63	7.05	7.14	6.38	6.09	6.24	6.43
Colorado	5.45	5.36	5.58	5.04	5.18	7.00	5.77	5.91
Connecticut	6.49	6.35	6.48	6.16	6.12	6.01	6.42	6.06
Delaware	9.75	10.25	9.91	10.51	12.01	10.38	10.08	13.21
District of Columbia	--	--	--	--	--	--	--	--
Florida	5.93	7.44	6.17	5.97	6.18	6.24	6.09	6.34
Georgia	5.19	4.43	4.68	4.61	4.38	4.50	4.68	4.60
Hawaii	21.70	20.32	19.62	22.24	20.83	21.09	19.75	18.87
Idaho	4.14	4.25	4.44	4.37	4.10	4.34	4.41	4.46
Illinois	6.07	5.30	5.76	4.86	4.99	5.10	5.72	6.43
Indiana	5.74	6.24	5.99	4.85	5.34	5.43	7.01	7.98
Iowa	6.08	5.54	5.21	5.55	5.12	5.06	5.33	5.18
Kansas	6.67	6.94	4.16	5.71	4.93	4.62	3.88	3.76
Kentucky	5.09	4.53	4.46	4.54	4.26	4.26	4.15	4.18
Louisiana	3.59	3.87	3.64	3.35	3.41	3.53	3.46	3.55
Maine	11.72	9.74	8.15	9.59	9.29	5.26	5.30	5.42
Maryland	7.99	8.38	9.84	9.72	9.26	10.80	11.23	10.68
Massachusetts	11.52	10.05	8.02	8.95	7.76	5.53	7.19	7.25
Michigan	5.90	5.71	5.97	5.63	5.96	6.02	6.93	6.78
Minnesota	5.41	4.91	4.48	4.66	4.05	4.40	4.24	4.19
Mississippi	5.54	5.40	5.07	5.08	4.86	4.89	4.91	4.80
Missouri	6.80	6.89	6.64	6.84	6.96	6.43	6.03	6.24
Montana	6.44	7.08	6.60	7.22	6.57	6.51	6.40	5.72
Nebraska	4.89	4.84	4.54	4.45	4.28	4.21	4.38	4.32
Nevada	5.39	5.39	5.06	5.21	5.48	5.65	5.69	6.03
New Hampshire	9.39	9.62	9.09	10.03	8.92	7.66	7.99	7.58
New Jersey	8.85	8.46	7.92	8.08	8.07	8.64	8.34	8.21
New Mexico	4.96	5.04	5.06	5.37	5.30	5.15	4.87	4.95
New York	7.93	7.40	7.21	7.21	6.69	6.44	6.18	6.72
North Carolina	6.45	7.12	6.24	6.29	6.02	5.89	6.09	6.07
North Dakota	4.12	3.84	3.15	3.96	3.12	2.89	3.79	2.82
Ohio	6.54	6.14	6.71	6.24	6.42	7.24	8.04	7.85
Oklahoma	3.41	3.21	3.30	3.16	2.90	2.99	2.88	3.05
Oregon	5.24	5.20	5.31	5.18	5.28	5.17	5.19	5.50
Pennsylvania	9.76	8.26	8.38	8.91	8.95	9.16	9.13	9.36
Rhode Island	8.75	8.62	8.48	8.62	8.45	8.41	8.59	8.74
South Carolina	5.42	6.10	4.86	5.17	4.54	4.59	4.71	4.56
South Dakota	4.76	4.70	5.11	4.88	4.63	5.38	6.07	5.66
Tennessee	5.84	5.45	5.04	5.22	4.95	4.69	4.70	4.66
Texas	3.81	3.35	3.28	3.21	2.98	3.11	3.21	3.19
Utah	6.12	6.05	5.51	6.02	5.45	5.15	5.13	5.12
Vermont	5.00	5.08	4.92	4.71	4.40	4.42	4.48	4.47
Virginia	5.27	5.01	5.04	5.15	4.64	4.69	4.92	5.22
Washington	7.58	7.45	7.39	7.45	7.34	7.11	7.22	7.42
West Virginia	4.40	3.43	3.21	4.11	4.06	3.02	2.80	2.84
Wisconsin	6.21	5.73	5.34	5.60	5.54	4.46	4.66	4.54
Wyoming	4.23	4.05	4.28	4.21	4.25	4.36	4.38	4.35
Total	4.87	4.48	4.08	4.19	3.84	3.78	3.83	3.78

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						
	July	June	May	April	March	February	January
Alabama	4.07	4.19	4.17	4.24	4.06	4.65	5.01
Alaska	3.04	4.96	4.96	5.02	5.13	4.99	5.06
Arizona	6.49	6.86	6.31	6.18	5.95	6.04	6.18
Arkansas	6.72	6.67	6.50	6.78	6.61	6.67	6.70
California	6.59	7.01	7.05	7.19	7.71	7.96	8.38
Colorado	6.35	6.08	5.66	5.19	5.60	5.48	5.37
Connecticut	5.93	5.83	6.45	6.32	6.73	7.71	7.25
Delaware	13.50	10.22	9.81	9.07	9.57	9.11	8.93
District of Columbia	--	--	--	--	--	--	--
Florida	5.98	6.06	6.08	5.97	6.49	6.44	6.12
Georgia	4.45	4.67	4.64	4.74	4.30	5.12	5.49
Hawaii	18.57	19.10	19.60	18.83	19.22	19.69	18.66
Idaho	4.47	4.58	4.43	4.56	4.51	4.58	4.51
Illinois	7.16	6.70	6.78	6.31	5.87	6.15	6.12
Indiana	7.11	7.93	6.32	7.03	5.69	6.08	5.82
Iowa	5.43	5.51	5.31	5.06	4.69	5.14	5.22
Kansas	3.83	4.01	4.74	4.67	5.07	6.88	6.74
Kentucky	4.27	4.48	4.37	4.42	4.34	4.90	5.14
Louisiana	3.62	3.74	3.32	3.14	3.59	4.56	4.52
Maine	6.34	6.48	6.61	9.28	9.27	9.35	9.33
Maryland	11.29	11.92	10.57	11.43	8.53	9.83	9.50
Massachusetts	7.45	7.09	9.01	8.27	8.16	8.42	8.22
Michigan	6.47	6.44	6.40	6.10	5.88	5.99	5.76
Minnesota	4.14	4.44	4.23	4.40	4.42	4.86	5.15
Mississippi	5.02	4.84	4.92	4.62	5.28	5.92	5.47
Missouri	6.21	6.02	6.04	6.45	6.95	7.12	6.88
Montana	6.68	6.52	6.55	6.02	6.83	6.93	6.56
Nebraska	4.40	4.44	4.33	4.33	4.81	5.23	4.73
Nevada	5.74	5.48	5.15	4.61	4.47	4.38	4.36
New Hampshire	7.81	7.14	7.98	8.88	9.13	10.27	10.13
New Jersey	7.83	8.19	7.04	6.82	7.09	8.69	8.07
New Mexico	4.87	4.88	4.81	4.61	5.02	5.91	5.57
New York	8.05	7.79	7.21	7.86	7.50	7.46	6.91
North Carolina	6.04	5.97	6.07	6.35	6.34	6.65	6.66
North Dakota	2.85	2.95	2.81	2.89	2.66	3.45	3.96
Ohio	8.69	9.21	8.06	6.54	5.85	6.56	6.87
Oklahoma	3.44	3.46	3.25	3.22	2.85	3.82	4.41
Oregon	5.41	5.39	5.28	5.29	5.43	5.39	5.25
Pennsylvania	10.50	8.99	8.22	8.68	8.01	7.92	7.79
Rhode Island	8.74	8.43	8.55	8.67	8.39	8.34	8.06
South Carolina	4.98	4.83	4.70	4.83	4.47	5.14	5.78
South Dakota	5.65	5.22	5.25	4.59	5.03	5.38	5.23
Tennessee	4.77	4.94	4.86	4.93	5.03	5.61	5.76
Texas	3.40	3.51	3.37	3.34	2.81	3.43	3.84
Utah	5.20	5.04	5.14	5.70	5.87	5.98	6.03
Vermont	4.51	4.68	4.78	5.04	5.34	5.67	6.02
Virginia	4.94	5.41	5.04	4.87	4.67	5.61	5.38
Washington	7.73	7.38	7.52	7.52	7.35	7.59	7.19
West Virginia	2.90	2.95	2.91	2.89	3.15	3.45	3.10
Wisconsin	4.24	4.74	4.69	5.82	5.34	5.55	6.32
Wyoming	4.39	4.24	3.96	4.24	4.37	4.52	4.18
Total	3.92	4.05	4.02	4.11	3.92	4.53	4.85

-- 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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	W	W	W	W	W	W	W	W
Alaska	7.83	6.77	7.06	7.87	7.87	7.87	7.87	7.87
Arizona	W	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	W	W	W	3.24	3.49	3.24	3.38	3.04
Colorado	W	W	W	W	W	W	W	W
Connecticut	3.26	4.44	W	2.13	2.28	2.30	2.47	2.37
Delaware	--	W	W	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	W	W
Georgia	W	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	6.53	3.00	3.33	3.70	2.53	2.09	2.22	2.37
Illinois	W	W	W	W	W	W	W	2.47
Indiana	W	W	W	2.19	2.56	2.49	2.49	2.62
Iowa	2.74	3.09	2.98	2.20	2.21	2.15	2.26	2.23
Kansas	2.65	3.21	3.84	2.05	2.50	2.29	2.48	2.23
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	W	W
Maryland	3.16	W	3.60	2.41	2.90	2.60	2.72	2.79
Massachusetts	W	4.66	3.29	2.41	2.94	2.93	3.30	3.11
Michigan	2.74	3.27	3.31	2.23	2.63	2.38	2.55	2.56
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	W
Montana	1.54	W	W	1.95	0.67	0.84	1.17	0.77
Nebraska	2.98	3.62	4.07	3.21	2.83	2.60	2.81	2.70
Nevada	3.11	2.98	3.52	2.61	2.40	2.60	2.54	2.47
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	2.93	3.05	2.65	2.41	2.46	2.50	2.58	2.48
New Mexico	1.32	2.56	3.58	1.60	1.91	1.16	0.85	0.47
New York	2.98	3.72	3.34	2.03	2.19	2.21	2.39	2.53
North Carolina	W	W	W	W	W	W	W	W
North Dakota	3.56	2.91	3.85	3.28	3.45	2.24	3.39	3.28
Ohio	2.56	3.07	3.10	1.97	2.27	2.19	2.33	2.37
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	2.40	3.01	2.55	1.68	1.87	2.00	2.26	2.27
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	3.24	4.21	W	2.97	3.17	2.93	2.95	3.08
South Dakota	--	2.89	3.15	--	--	--	--	--
Tennessee	2.88	2.99	3.06	2.78	2.66	2.53	2.63	2.79
Texas	2.45	3.07	3.20	2.34	2.40	2.11	2.21	2.21
Utah	3.14	2.82	3.43	2.55	2.32	2.41	2.33	2.34
Vermont	--	W	W	--	--	--	--	--
Virginia	W	W	W	2.39	2.64	2.50	2.73	2.83
Washington	W	W	W	W	W	W	W	W
West Virginia	W	W	2.61	W	W	W	W	W
Wisconsin	W	3.15	W	W	W	W	W	2.45
Wyoming	W	W	W	W	W	W	2.15	2.17
Total	2.97	3.52	3.47	2.58	2.68	2.50	2.62	2.67

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		
	May	April	March	February	January	Total	December	November
Alabama	W	W	W	W	W	W	W	W
Alaska	7.87	7.87	7.72	7.72	7.72	6.72	6.45	6.52
Arizona	W	W	W	W	W	3.08	W	W
Arkansas	W	W	W	W	W	W	W	W
California	2.88	3.28	4.53	W	W	4.63	6.34	W
Colorado	W	W	W	W	W	W	W	W
Connecticut	2.53	2.78	4.10	5.34	7.12	4.80	7.41	5.37
Delaware	--	--	--	--	--	W	W	W
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	6.04	4.81
Georgia	W	W	W	W	W	4.01	4.80	4.98
Hawaii	--	--	--	--	--	--	--	--
Idaho	24.46	--	40.19	8.54	3.48	3.59	5.38	4.80
Illinois	2.54	2.65	W	W	3.92	3.46	4.58	4.21
Indiana	2.80	2.79	W	W	3.44	3.44	4.07	4.42
Iowa	2.47	2.55	2.75	7.22	3.12	3.17	3.87	3.70
Kansas	2.46	2.68	5.76	3.93	4.00	3.33	5.51	4.18
Kentucky	W	W	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W	W	W
Maine	--	W	W	W	--	W	W	10.37
Maryland	3.02	3.12	3.50	3.71	5.34	4.00	5.42	W
Massachusetts	W	4.71	5.22	W	W	4.91	9.16	5.80
Michigan	2.75	2.83	3.33	3.08	3.53	3.40	4.36	4.34
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	W
Montana	1.60	0.87	2.98	2.77	1.79	W	W	W
Nebraska	2.86	3.64	4.02	3.83	4.01	3.77	5.06	4.73
Nevada	2.67	3.02	4.36	5.13	4.53	3.28	6.45	4.03
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	2.61	2.60	3.71	3.99	4.58	3.18	3.97	3.78
New Mexico	0.49	0.51	1.47	2.28	2.72	2.53	2.42	2.51
New York	2.59	2.76	3.90	4.46	5.75	3.87	5.46	4.47
North Carolina	W	W	W	W	W	4.43	4.98	4.32
North Dakota	3.70	2.68	4.39	4.77	6.16	3.02	3.44	4.31
Ohio	2.55	2.68	3.09	2.92	3.40	3.30	4.27	4.21
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	2.41	2.50	2.88	3.01	3.66	3.17	3.96	3.87
Rhode Island	W	W	W	W	W	4.21	W	6.17
South Carolina	3.25	3.45	3.55	3.45	4.20	4.29	4.63	4.68
South Dakota	--	--	--	--	--	3.04	4.28	3.85
Tennessee	2.82	3.31	3.11	3.09	3.50	3.17	4.41	3.88
Texas	2.43	2.48	2.83	2.82	3.21	3.17	3.86	3.79
Utah	2.34	3.12	4.22	5.49	4.49	3.23	5.92	4.16
Vermont	--	--	--	--	--	W	W	W
Virginia	3.27	3.49	3.87	W	W	4.35	W	4.55
Washington	W	W	W	W	W	W	W	W
West Virginia	W	W	3.58	3.30	3.66	W	W	W
Wisconsin	2.63	2.82	3.45	3.64	3.72	3.28	3.93	3.92
Wyoming	W	W	W	3.10	W	W	W	W
Total	2.85	2.99	3.59	3.79	4.16	3.68	4.89	4.34

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							
	October	September	August	July	June	May	April	March
Alabama	W	W	W	W	W	W	W	W
Alaska	6.41	6.53	6.47	6.48	6.48	6.50	6.83	7.15
Arizona	W	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	3.78	3.58	5.88	6.87	3.36	2.88	3.06	W
Colorado	W	W	W	W	W	W	W	W
Connecticut	3.97	3.39	3.48	3.19	2.86	2.90	3.92	4.26
Delaware	W	W	W	W	W	W	W	W
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	W	4.65
Georgia	4.00	3.77	3.69	3.52	3.76	3.52	W	3.50
Hawaii	--	--	--	--	--	--	--	--
Idaho	2.97	2.87	2.77	2.69	2.32	2.67	2.93	3.82
Illinois	3.66	3.23	3.28	3.21	3.02	3.30	3.12	W
Indiana	3.56	3.29	3.25	3.08	3.15	3.11	3.17	W
Iowa	3.52	3.00	3.41	3.01	2.82	2.86	3.03	2.65
Kansas	4.09	3.08	3.23	3.28	2.97	2.69	3.12	3.00
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	8.58	W
Maryland	3.38	3.38	3.47	3.34	W	3.56	3.27	3.25
Massachusetts	3.50	3.10	3.25	2.94	2.86	2.49	5.59	4.30
Michigan	3.72	3.36	3.40	3.20	3.18	2.97	3.11	2.86
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	W
Montana	1.01	W	W	W	1.01	1.14	1.26	1.68
Nebraska	4.01	3.82	3.55	3.14	3.27	2.96	3.88	4.40
Nevada	2.96	2.82	3.37	3.08	2.60	2.40	2.76	2.91
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	2.70	2.60	2.89	2.66	2.67	2.47	2.82	2.93
New Mexico	2.35	2.19	2.45	2.59	2.64	2.18	2.04	2.59
New York	3.26	3.07	3.26	3.14	2.99	2.86	3.23	3.54
North Carolina	3.72	3.59	3.53	W	W	W	W	W
North Dakota	2.65	2.61	1.55	2.71	2.65	1.04	2.81	1.38
Ohio	3.39	3.07	3.07	3.01	2.98	2.79	2.90	2.76
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	2.78	2.58	2.83	2.66	2.56	2.48	2.69	2.70
Rhode Island	3.55	3.09	3.23	2.95	2.75	W	W	W
South Carolina	4.03	3.72	3.64	3.68	3.71	3.76	3.73	3.65
South Dakota	3.34	2.90	2.95	2.80	2.76	2.53	2.91	2.79
Tennessee	3.28	2.93	2.88	2.75	2.93	2.64	2.62	2.80
Texas	3.28	2.96	3.04	2.98	3.03	2.89	2.82	2.74
Utah	2.89	2.73	2.87	2.73	2.61	2.49	2.54	2.89
Vermont	W	W	W	W	W	W	W	W
Virginia	3.63	3.21	3.34	3.21	3.26	3.21	3.45	W
Washington	W	W	W	W	W	W	W	W
West Virginia	W	W	W	W	W	W	3.08	4.26
Wisconsin	3.35	3.01	3.00	2.92	3.06	2.93	3.20	2.89
Wyoming	W	3.67	W	W	W	W	W	W
Total	3.52	3.23	3.39	3.35	3.23	3.16	3.26	3.32

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
	February	January	Total	December	November	October	September	August
Alabama	W	W	W	W	W	W	W	W
Alaska	7.25	7.28	7.08	7.21	7.16	7.11	7.14	6.91
Arizona	3.34	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	3.72	3.79	3.76	3.86	3.68	3.71	3.69	3.74
Colorado	W	W	W	W	W	W	W	W
Connecticut	7.70	11.06	4.36	5.86	4.21	2.92	2.83	2.87
Delaware	W	W	W	W	W	W	W	W
District of Columbia	--	--	--	--	--	--	--	--
Florida	4.82	W	4.29	4.55	4.39	W	W	W
Georgia	W	5.79	3.58	3.46	3.67	3.51	3.48	3.33
Hawaii	--	--	--	--	--	--	--	--
Idaho	3.36	3.78	3.33	3.25	3.28	3.01	3.22	3.06
Illinois	W	5.11	3.32	W	W	W	W	W
Indiana	W	4.34	W	W	W	W	W	W
Iowa	2.69	4.25	3.22	5.19	3.16	2.62	2.90	2.70
Kansas	3.41	4.52	3.85	4.35	3.55	3.32	3.88	3.55
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	4.19	W
Maryland	W	W	3.65	4.89	3.28	3.21	3.00	3.27
Massachusetts	5.91	14.39	3.74	8.74	3.79	3.35	2.41	2.50
Michigan	2.99	3.96	3.29	3.11	3.32	3.14	3.32	3.26
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	W
Montana	1.82	W	W	1.98	W	W	1.49	1.52
Nebraska	4.69	6.66	4.23	6.08	5.06	4.10	4.16	3.65
Nevada	3.39	3.38	3.51	3.47	3.40	3.14	3.35	3.27
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	3.07	7.87	2.83	5.23	2.81	1.54	1.91	2.07
New Mexico	3.06	4.18	3.58	3.67	3.69	3.36	3.45	3.50
New York	5.53	8.27	3.46	5.14	3.44	2.39	2.41	2.61
North Carolina	W	W	W	W	W	W	W	W
North Dakota	7.82	7.27	4.00	5.66	3.97	6.25	3.70	4.64
Ohio	2.99	3.67	3.07	3.00	2.95	2.91	2.83	2.77
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	3.41	6.00	2.65	3.88	2.41	1.51	1.76	2.08
Rhode Island	W	11.39	3.63	6.33	3.77	W	2.31	2.76
South Carolina	4.00	9.44	W	W	W	W	W	W
South Dakota	2.96	3.89	3.26	4.45	3.17	2.86	2.99	2.92
Tennessee	3.30	3.64	3.05	3.04	2.92	2.89	3.00	2.87
Texas	2.91	4.08	3.18	2.98	3.12	3.13	3.14	3.07
Utah	3.39	3.19	3.45	3.37	3.73	3.55	3.21	3.03
Vermont	W	W	W	W	W	W	W	W
Virginia	W	11.54	3.50	W	W	W	2.70	2.95
Washington	W	W	W	W	W	W	W	W
West Virginia	W	W	W	3.60	2.63	1.59	2.24	2.76
Wisconsin	3.35	3.95	W	2.98	3.31	3.10	3.16	3.09
Wyoming	W	W	W	3.34	4.08	W	W	W
Total	3.75	5.38	3.51	3.81	3.50	3.24	3.27	3.24

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						
	July	June	May	April	March	February	January
Alabama	W	W	W	W	W	W	W
Alaska	6.98	7.04	7.10	7.02	7.15	7.00	7.13
Arizona	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W
California	3.70	3.72	W	W	3.44	3.88	4.27
Colorado	W	W	W	W	W	W	W
Connecticut	3.04	3.24	3.46	W	4.43	5.84	8.12
Delaware	W	W	W	W	W	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.32	4.22	W	4.01	W	W
Georgia	3.47	3.50	3.84	3.88	W	3.43	W
Hawaii	--	--	--	--	--	--	--
Idaho	3.09	3.23	3.34	3.52	3.39	3.65	3.94
Illinois	3.45	3.26	W	3.37	3.13	W	W
Indiana	W	W	W	W	W	W	W
Iowa	3.27	2.65	2.69	2.72	3.59	3.76	4.57
Kansas	3.53	3.86	4.45	3.94	3.54	4.86	5.13
Kentucky	W	W	W	W	W	6.11	W
Louisiana	W	W	W	W	W	W	W
Maine	W	W	W	W	W	9.00	W
Maryland	3.44	3.25	3.37	3.40	4.90	4.25	5.50
Massachusetts	2.70	2.74	3.39	3.52	4.35	3.95	5.32
Michigan	3.24	3.26	3.48	3.48	3.19	3.21	3.66
Minnesota	W	W	W	W	W	4.75	W
Mississippi	W	W	W	W	W	W	W
Missouri	W	W	W	W	W	W	W
Montana	1.52	2.10	W	W	W	W	W
Nebraska	3.54	3.60	4.20	4.40	5.25	6.63	5.75
Nevada	3.29	3.48	3.49	3.74	3.60	3.80	4.37
New Hampshire	W	W	W	W	W	W	W
New Jersey	2.31	2.31	3.13	3.20	3.36	3.52	3.93
New Mexico	3.53	3.51	3.69	3.85	3.27	3.65	4.02
New York	2.81	3.02	3.35	3.44	4.31	4.57	5.45
North Carolina	W	W	W	W	W	W	W
North Dakota	4.47	3.22	3.23	3.28	4.06	3.71	4.78
Ohio	2.93	3.08	3.25	3.30	2.95	3.29	3.86
Oklahoma	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W
Pennsylvania	2.35	2.45	3.04	3.03	2.91	3.24	4.16
Rhode Island	2.99	2.94	3.62	3.73	4.63	4.14	5.74
South Carolina	W	W	W	W	W	W	W
South Dakota	2.95	3.00	3.23	3.10	3.36	4.15	4.30
Tennessee	2.93	3.07	2.98	3.05	3.00	3.12	3.85
Texas	3.21	3.24	3.33	3.24	3.04	3.15	3.51
Utah	3.06	3.32	3.58	3.80	3.39	3.87	4.06
Vermont	W	W	W	W	W	W	W
Virginia	3.12	3.12	3.62	3.70	W	W	W
Washington	W	W	W	W	W	W	W
West Virginia	3.03	2.91	3.68	3.91	3.73	4.51	4.60
Wisconsin	W	W	W	W	W	W	W
Wyoming	W	W	W	W	14.29	W	4.43
Total	3.32	3.40	3.61	3.50	3.51	3.72	4.31

^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 10-Month YTD			2018 10-Month YTD			2017 10-Month YTD		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	NA	NA	22.8	100.0	78.9	24.2	100.0	76.3	26.1
Alaska	100.0	NA	100.0	100.0	98.3	100.0	100.0	98.2	100.0
Arizona	100.0	74.2	NA	100.0	82.0	14.4	100.0	81.3	13.9
Arkansas	NA	NA	1.5	100.0	39.7	1.4	100.0	36.1	1.3
California	94.9	52.5	4.3	94.8	50.9	4.0	95.1	52.3	4.1
Colorado	100.0	93.9	7.7	100.0	93.7	7.2	100.0	93.5	6.9
Connecticut	96.2	77.1	51.3	96.2	76.4	51.4	96.1	76.3	50.2
Delaware	100.0	NA	NA	100.0	35.7	0.4	100.0	36.7	0.4
District of Columbia	NA	NA	0.0	75.6	21.4	--	73.5	20.0	--
Florida	91.4	NA	NA	91.8	29.6	3.6	91.4	30.1	3.3
Georgia	NA	NA	NA	100.0	100.0	25.2	100.0	100.0	25.2
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	NA	NA	100.0	74.1	2.8	100.0	75.2	2.7
Illinois	87.0	34.6	NA	86.1	33.7	5.9	85.3	32.9	5.4
Indiana	96.3	65.6	1.4	96.0	65.7	1.5	95.6	64.3	1.5
Iowa	NA	NA	2.5	100.0	64.9	2.4	100.0	67.4	2.5
Kansas	NA	NA	NA	100.0	51.1	7.5	100.0	47.4	8.0
Kentucky	97.3	NA	17.6	97.1	78.7	16.7	96.7	76.6	17.3
Louisiana	100.0	78.0	3.0	100.0	72.0	3.4	100.0	78.8	3.5
Maine	NA	NA	7.8	100.0	61.6	8.2	100.0	59.2	8.7
Maryland	75.6	NA	NA	75.4	26.8	3.6	74.2	24.9	3.7
Massachusetts	97.5	42.0	NA	97.7	46.1	26.5	98.3	45.0	26.0
Michigan	94.1	57.2	6.4	93.6	56.0	6.9	93.2	54.3	6.3
Minnesota	100.0	86.4	18.3	100.0	86.0	17.3	100.0	87.3	15.7
Mississippi	100.0	79.9	NA	100.0	80.2	8.4	100.0	83.4	8.9
Missouri	100.0	73.0	12.7	100.0	73.8	13.6	100.0	71.5	11.9
Montana	NA	NA	1.6	99.5	47.3	1.4	99.4	50.2	1.5
Nebraska	87.9	NA	5.6	88.2	56.0	5.2	87.6	54.9	6.1
Nevada	100.0	60.0	NA	100.0	57.4	13.4	100.0	58.4	13.8
New Hampshire	100.0	57.4	7.5	100.0	56.3	8.3	100.0	54.1	4.6
New Jersey	96.3	44.6	NA	95.3	40.7	5.9	94.5	42.1	6.2
New Mexico	NA	NA	7.2	100.0	58.0	5.8	100.0	55.1	6.8
New York	100.0	NA	5.4	100.0	100.0	5.7	100.0	100.0	5.8
North Carolina	NA	NA	NA	100.0	86.3	10.9	100.0	81.8	10.7
North Dakota	100.0	93.1	36.0	100.0	92.7	38.1	100.0	92.2	34.8
Ohio	100.0	100.0	NA	100.0	100.0	0.9	100.0	100.0	0.8
Oklahoma	NA	45.4	7.3	100.0	46.5	7.9	100.0	43.8	7.0
Oregon	NA	NA	NA	100.0	94.1	15.4	100.0	94.3	15.3
Pennsylvania	NA	NA	NA	86.9	36.7	1.1	87.6	36.7	0.9
Rhode Island	100.0	53.0	4.3	100.0	53.5	4.0	100.0	52.5	3.7
South Carolina	100.0	91.4	NA	100.0	91.7	40.0	100.0	90.9	40.5
South Dakota	NA	NA	NA	100.0	81.6	4.1	100.0	80.4	3.8
Tennessee	100.0	88.3	21.9	100.0	88.1	23.2	100.0	86.7	23.8
Texas	99.8	73.6	31.7	99.7	74.8	36.7	99.8	69.9	39.8
Utah	100.0	NA	2.6	100.0	69.4	3.2	100.0	72.6	4.3
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	89.5	NA	NA	90.5	51.2	10.0	89.2	49.0	9.5
Washington	100.0	85.4	NA	100.0	84.4	5.8	100.0	85.6	6.3
West Virginia	100.0	51.1	NA	100.0	53.6	3.8	100.0	48.8	3.8
Wisconsin	100.0	72.3	15.4	100.0	71.7	17.2	100.0	70.1	15.1
Wyoming	70.2	NA	NA	70.8	50.5	1.5	71.7	50.2	1.6
Total	96.1	65.2	12.8	95.9	65.1	14.3	95.8	64.7	14.7

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	2019								
	October			September			August		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	70.0	23.1	100.0	74.6	22.8	100.0	74.0	22.3
Alaska	100.0	97.7	100.0	100.0	NA	100.0	100.0	NA	100.0
Arizona	100.0	68.8	17.5	100.0	72.6	20.2	100.0	70.6	19.9
Arkansas	100.0	26.0	1.3	100.0	22.3	1.3	100.0	22.2	1.4
California	94.9	50.2	4.4	94.7	47.8	3.9	94.5	46.3	3.4
Colorado	100.0	94.5	7.6	100.0	90.7	5.9	100.0	90.7	5.8
Connecticut	94.5	73.4	50.8	95.2	72.6	50.0	95.4	72.7	50.2
Delaware	100.0	21.8	0.3	100.0	21.1	NA	100.0	23.0	0.3
District of Columbia	NA	NA	0.0	72.0	14.2	0.0	71.8	16.4	0.0
Florida	91.2	28.1	2.5	92.4	27.8	NA	92.1	27.2	2.7
Georgia	100.0	100.0	23.5	100.0	100.0	25.5	100.0	100.0	25.6
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	78.7	NA	100.0	62.4	2.6	100.0	58.9	3.0
Illinois	92.4	34.8	4.9	87.2	21.0	NA	87.1	21.3	2.3
Indiana	97.5	66.2	1.1	96.2	58.5	0.5	96.6	54.4	0.6
Iowa	100.0	66.1	3.0	100.0	47.3	1.7	NA	44.5	2.1
Kansas	100.0	38.0	4.4	100.0	26.6	13.6	100.0	24.2	16.4
Kentucky	98.7	71.7	16.2	98.0	67.4	19.0	98.1	66.3	17.5
Louisiana	100.0	70.7	3.1	100.0	74.1	3.8	100.0	77.1	3.1
Maine	100.0	NA	7.0	100.0	49.0	6.3	NA	47.3	7.1
Maryland	78.7	21.2	2.2	73.9	16.7	1.1	73.4	17.2	1.5
Massachusetts	97.8	28.6	21.7	97.7	26.2	23.5	97.6	31.4	NA
Michigan	94.3	51.1	4.1	93.9	40.3	2.2	93.6	33.9	2.2
Minnesota	100.0	85.3	23.8	100.0	73.8	13.2	100.0	72.2	12.1
Mississippi	100.0	75.2	8.3	100.0	72.3	8.1	100.0	72.9	8.0
Missouri	100.0	61.2	8.9	100.0	59.7	10.0	100.0	58.6	9.0
Montana	99.6	39.6	1.3	99.5	25.3	0.8	NA	NA	0.9
Nebraska	86.0	47.0	5.0	89.6	43.2	4.7	89.6	NA	4.1
Nevada	100.0	54.6	NA	100.0	51.2	11.9	100.0	49.0	9.6
New Hampshire	100.0	50.5	5.0	100.0	50.8	2.6	100.0	51.0	4.4
New Jersey	96.5	34.1	2.7	96.5	29.7	1.8	96.4	30.9	NA
New Mexico	99.9	42.6	12.5	100.0	52.4	10.6	NA	NA	10.9
New York	100.0	100.0	3.9	100.0	100.0	3.8	100.0	100.0	3.9
North Carolina	100.0	82.5	10.5	100.0	79.6	9.7	100.0	81.6	9.9
North Dakota	100.0	94.4	19.9	100.0	89.7	40.6	100.0	86.5	38.0
Ohio	100.0	100.0	NA	100.0	100.0	0.7	100.0	100.0	0.5
Oklahoma	100.0	21.7	7.3	100.0	29.3	8.3	NA	27.6	6.6
Oregon	100.0	95.5	14.7	100.0	93.5	16.0	100.0	93.4	14.0
Pennsylvania	NA	NA	NA	86.3	26.2	NA	86.2	25.5	NA
Rhode Island	100.0	54.0	3.8	100.0	54.6	3.7	100.0	54.9	3.5
South Carolina	100.0	89.7	38.7	100.0	90.5	37.8	100.0	90.0	36.6
South Dakota	100.0	73.1	NA	100.0	67.4	NA	100.0	67.1	1.5
Tennessee	100.0	83.9	20.7	100.0	81.3	20.8	100.0	79.7	21.3
Texas	99.8	64.9	28.5	98.9	62.7	30.2	98.5	63.3	31.7
Utah	100.0	54.7	2.4	100.0	48.4	2.5	100.0	47.3	2.4
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	90.8	45.4	13.9	88.7	40.5	9.0	87.6	NA	NA
Washington	100.0	87.9	NA	100.0	81.1	6.9	100.0	75.8	4.3
West Virginia	100.0	41.2	3.7	100.0	29.9	3.8	100.0	31.2	3.9
Wisconsin	100.0	66.5	16.3	100.0	55.3	11.2	100.0	53.0	8.9
Wyoming	70.0	NA	1.1	71.7	58.1	1.1	71.9	57.5	0.7
Total	96.8	60.5	11.9	96.2	56.6	12.1	96.0	56.0	12.2

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	73.7	21.9	100.0	74.3	21.9	NA	NA	22.6
Alaska	100.0	NA	100.0	100.0	NA	100.0	100.0	NA	100.0
Arizona	100.0	72.3	NA	100.0	74.4	19.4	100.0	72.6	17.7
Arkansas	100.0	22.0	1.2	100.0	23.9	1.1	100.0	28.0	1.1
California	94.8	47.1	3.4	94.5	53.3	3.9	94.9	55.6	4.4
Colorado	100.0	90.7	6.2	100.0	90.9	6.1	100.0	92.7	7.0
Connecticut	95.5	72.4	50.3	95.5	73.1	47.7	95.2	74.8	51.0
Delaware	100.0	22.1	NA	100.0	27.5	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	92.0	NA	NA	91.4	NA	2.9	91.1	29.1	3.0
Georgia	NA	NA	NA	100.0	100.0	26.0	100.0	100.0	24.9
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	57.9	2.8	100.0	65.1	2.9
Illinois	85.4	21.9	NA	82.8	23.0	2.1	83.2	28.6	NA
Indiana	95.7	54.1	0.7	95.8	52.4	0.7	95.7	55.7	0.9
Iowa	NA	NA	2.3	100.0	54.3	1.6	100.0	56.3	2.0
Kansas	100.0	25.6	17.2	100.0	28.4	4.5	100.0	36.6	4.1
Kentucky	97.9	64.9	18.6	97.6	NA	17.8	96.9	69.1	18.9
Louisiana	100.0	77.5	3.4	100.0	75.0	3.1	100.0	77.4	2.6
Maine	100.0	47.4	6.4	100.0	55.9	6.8	100.0	61.1	6.3
Maryland	72.9	20.9	NA	74.4	17.6	1.0	74.2	NA	2.8
Massachusetts	97.5	29.8	26.0	97.1	35.7	25.1	97.3	38.9	23.4
Michigan	94.4	36.2	2.2	94.2	43.5	3.0	93.9	47.4	3.8
Minnesota	100.0	73.2	21.7	100.0	74.6	10.9	100.0	81.8	11.7
Mississippi	100.0	73.3	7.9	100.0	73.7	8.8	100.0	75.5	NA
Missouri	100.0	58.8	7.7	100.0	61.0	9.1	100.0	64.9	10.5
Montana	99.5	31.4	0.9	99.6	39.1	1.0	99.6	NA	1.3
Nebraska	88.7	41.0	4.9	85.6	40.7	5.2	85.7	48.1	5.4
Nevada	100.0	50.7	10.5	100.0	54.1	11.6	100.0	55.1	14.1
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	5.2	96.6	36.5	2.7	96.6	40.5	4.8
New Mexico	100.0	49.9	9.5	100.0	45.7	7.3	100.0	NA	7.3
New York	100.0	100.0	3.5	100.0	100.0	4.1	100.0	100.0	4.6
North Carolina	100.0	78.5	9.1	NA	NA	9.6	NA	80.4	10.4
North Dakota	100.0	87.1	38.8	100.0	89.2	38.9	100.0	91.5	39.2
Ohio	100.0	100.0	0.6	100.0	100.0	0.7	100.0	100.0	0.7
Oklahoma	100.0	29.4	3.1	100.0	31.7	7.9	100.0	36.6	7.0
Oregon	100.0	92.8	13.5	NA	NA	13.1	100.0	93.5	NA
Pennsylvania	85.7	25.6	0.4	85.4	26.4	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	89.5	36.9	100.0	91.1	38.8	100.0	86.8	NA
South Dakota	NA	NA	NA	100.0	75.8	NA	100.0	78.5	NA
Tennessee	100.0	81.2	19.3	100.0	81.3	19.6	100.0	83.4	21.1
Texas	98.5	67.2	32.9	99.6	67.0	31.5	99.8	68.8	32.7
Utah	100.0	50.5	2.1	100.0	53.9	2.4	100.0	NA	2.7
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	87.1	38.7	6.4	86.6	39.0	8.3	86.4	42.9	7.7
Washington	100.0	80.3	3.9	100.0	80.0	3.8	100.0	82.1	5.2
West Virginia	100.0	29.9	3.8	100.0	27.3	3.6	100.0	33.9	3.4
Wisconsin	100.0	48.8	11.3	100.0	58.3	8.4	100.0	64.1	11.4
Wyoming	71.9	58.2	NA	69.2	54.5	0.7	71.1	58.4	1.1
Total	95.9	56.4	12.9	95.6	58.9	12.3	95.7	61.1	12.5

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	22.9	100.0	79.5	23.3	100.0	85.1	24.3
Alaska	100.0	NA	100.0	100.0	NA	100.0	100.0	NA	100.0
Arizona	100.0	74.0	17.1	100.0	76.5	15.2	100.0	77.3	15.6
Arkansas	100.0	39.8	1.6	NA	NA	2.2	100.0	53.3	1.8
California	94.2	55.7	4.6	94.6	55.4	4.8	95.5	55.4	6.1
Colorado	100.0	92.5	6.8	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	41.0	0.2	100.0	NA	0.4	100.0	44.8	0.4
District of Columbia	75.5	21.1	0.0	76.6	23.9	0.0	NA	23.5	0.0
Florida	90.7	NA	NA	90.8	29.7	NA	91.6	31.5	3.8
Georgia	100.0	100.0	24.8	100.0	100.0	25.5	100.0	100.0	25.9
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	83.9	30.7	5.9	86.5	37.9	NA	86.8	40.2	10.3
Indiana	96.3	59.4	1.5	96.3	68.5	2.2	96.3	68.7	2.5
Iowa	100.0	62.6	2.2	100.0	70.3	3.1	100.0	71.5	3.8
Kansas	NA	NA	NA	100.0	63.5	1.3	100.0	65.8	1.3
Kentucky	96.3	74.7	17.5	97.3	82.8	20.0	96.9	82.8	16.1
Louisiana	100.0	79.3	3.0	100.0	80.0	2.5	100.0	82.2	2.9
Maine	100.0	64.9	7.7	100.0	67.7	9.2	100.0	69.4	9.7
Maryland	74.7	19.0	2.6	76.9	29.8	6.0	76.3	28.1	5.3
Massachusetts	97.3	47.2	27.6	97.5	48.4	32.6	97.6	45.0	29.7
Michigan	93.7	57.6	6.6	93.9	63.0	10.3	93.9	63.3	11.0
Minnesota	100.0	86.0	18.1	100.0	89.2	21.5	100.0	90.0	23.4
Mississippi	100.0	78.6	NA	100.0	83.8	8.3	100.0	85.0	10.3
Missouri	100.0	73.3	14.1	100.0	78.9	16.8	100.0	80.0	18.3
Montana	99.6	51.1	1.6	99.6	57.3	3.3	99.6	54.9	2.6
Nebraska	87.3	55.5	6.2	88.5	62.3	7.3	88.5	61.3	7.2
Nevada	100.0	59.6	16.9	100.0	66.4	15.1	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	6.6	96.3	53.0	11.3	96.4	51.0	12.1
New Mexico	NA	NA	5.4	100.0	60.5	3.4	100.0	63.7	2.9
New York	100.0	100.0	6.1	100.0	100.0	6.9	100.0	100.0	7.6
North Carolina	100.0	81.9	12.2	100.0	88.0	NA	100.0	88.2	14.7
North Dakota	100.0	91.9	34.5	100.0	93.9	37.3	100.0	94.4	29.6
Ohio	100.0	100.0	0.9	100.0	100.0	1.1	100.0	100.0	1.3
Oklahoma	100.0	49.8	8.0	100.0	55.8	7.9	100.0	53.1	8.8
Oregon	100.0	94.5	15.7	100.0	95.6	16.2	100.0	95.3	17.1
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	89.2	36.2	100.0	92.6	40.3	100.0	92.5	40.6
South Dakota	100.0	81.9	5.3	100.0	82.9	NA	100.0	81.5	7.3
Tennessee	100.0	88.7	22.7	100.0	91.3	23.1	100.0	92.5	23.9
Texas	99.9	72.7	32.0	100.0	80.8	32.7	100.0	80.1	32.4
Utah	100.0	62.6	2.6	100.0	70.3	2.6	100.0	71.2	2.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	85.5	43.1	9.8	90.0	55.6	NA	89.7	54.8	10.2
Washington	100.0	82.0	7.3	100.0	87.4	8.1	100.0	89.9	8.9
West Virginia	100.0	48.1	3.8	100.0	62.8	NA	100.0	64.0	3.2
Wisconsin	100.0	71.6	16.1	100.0	78.2	20.2	100.0	79.5	21.7
Wyoming	70.9	59.6	NA	69.4	58.8	1.3	70.2	57.9	1.4
Total	95.6	64.5	12.9	96.0	69.4	13.6	96.1	69.6	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	23.3	100.0	78.9	24.2	100.0	82.1	24.4
Alaska	100.0	NA	100.0	100.0	98.5	100.0	100.0	99.2	100.0
Arizona	100.0	76.4	14.7	100.0	81.7	14.4	100.0	81.4	14.1
Arkansas	100.0	49.3	1.8	100.0	40.1	1.5	100.0	46.4	1.9
California	95.0	53.2	4.2	94.9	51.3	4.1	95.3	54.3	4.4
Colorado	100.0	95.2	9.5	100.0	94.1	7.4	100.0	94.9	8.2
Connecticut	96.6	79.2	52.1	96.3	76.4	51.8	96.7	77.6	55.6
Delaware	100.0	41.3	0.3	100.0	36.2	0.4	100.0	42.4	0.4
District of Columbia	75.8	21.1	0.0	75.6	21.7	--	76.3	23.7	--
Florida	91.3	NA	3.2	91.7	30.0	3.5	91.6	32.6	3.1
Georgia	100.0	100.0	25.4	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	83.3	2.7	100.0	76.2	2.9	100.0	84.0	3.0
Illinois	89.1	41.6	9.1	86.9	35.0	6.3	87.8	38.9	9.0
Indiana	96.2	72.1	2.3	96.0	66.6	1.6	96.2	69.7	2.1
Iowa	100.0	72.0	3.1	100.0	65.9	2.6	100.0	68.4	3.6
Kansas	100.0	63.5	1.3	100.0	52.7	6.4	100.0	58.2	0.9
Kentucky	97.6	82.6	15.1	97.3	79.3	16.6	97.3	82.0	17.4
Louisiana	100.0	80.0	2.9	100.0	71.6	3.4	100.0	72.3	2.5
Maine	100.0	66.5	9.5	100.0	62.3	8.4	100.0	66.9	8.9
Maryland	74.8	33.6	8.5	75.7	27.4	3.8	76.2	31.7	5.0
Massachusetts	97.6	46.1	29.1	97.6	45.7	26.6	97.5	47.7	27.8
Michigan	94.6	66.0	10.8	93.6	57.2	7.3	93.5	61.4	10.6
Minnesota	100.0	91.0	21.9	100.0	86.9	18.3	100.0	91.4	21.8
Mississippi	100.0	85.6	NA	100.0	80.7	8.6	100.0	84.2	9.5
Missouri	100.0	77.6	15.9	100.0	74.0	13.8	100.0	77.2	16.6
Montana	99.6	52.2	2.0	99.5	47.1	1.4	99.5	48.2	2.0
Nebraska	87.8	60.1	6.4	88.2	56.2	5.3	88.5	59.9	5.9
Nevada	100.0	67.6	17.2	100.0	58.6	14.2	100.0	66.0	20.5
New Hampshire	100.0	59.5	11.1	100.0	56.4	8.1	100.0	58.0	8.0
New Jersey	95.8	51.0	12.0	95.5	41.2	6.0	95.9	43.9	7.6
New Mexico	100.0	60.9	2.8	100.0	56.1	5.8	100.0	51.3	5.5
New York	100.0	NA	7.3	100.0	100.0	5.8	100.0	100.0	7.1
North Carolina	100.0	90.6	14.8	100.0	87.0	11.3	100.0	89.5	14.0
North Dakota	100.0	95.0	37.9	100.0	93.0	38.1	100.0	94.3	42.8
Ohio	100.0	100.0	1.1	100.0	100.0	0.9	100.0	100.0	1.2
Oklahoma	100.0	50.6	8.0	100.0	45.5	7.9	100.0	48.4	8.0
Oregon	100.0	95.1	16.2	100.0	94.3	15.6	100.0	95.4	17.0
Pennsylvania	86.9	40.8	NA	87.1	37.1	1.1	86.7	39.0	1.4
Rhode Island	100.0	55.2	5.3	100.0	53.5	4.2	100.0	54.1	5.6
South Carolina	100.0	95.4	39.8	100.0	91.9	40.0	100.0	92.3	39.1
South Dakota	100.0	81.3	6.5	100.0	81.2	4.7	100.0	81.8	8.3
Tennessee	100.0	92.3	24.9	100.0	88.5	23.4	100.0	91.4	25.2
Texas	100.0	81.6	32.2	99.8	75.2	36.4	99.9	79.3	34.3
Utah	100.0	74.6	3.0	100.0	69.4	3.2	100.0	71.4	3.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	91.6	59.3	11.3	90.7	52.3	10.3	91.1	56.3	10.8
Washington	100.0	87.9	NA	100.0	85.5	6.4	100.0	89.8	10.4
West Virginia	100.0	65.1	3.6	100.0	55.3	3.8	100.0	61.5	3.5
Wisconsin	100.0	79.1	18.7	100.0	73.0	17.7	100.0	78.6	19.5
Wyoming	69.9	58.5	1.2	70.5	52.0	1.4	69.3	58.0	1.1
Total	96.3	70.4	13.6	96.0	65.8	14.3	96.2	69.0	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	73.6	23.7	100.0	70.2	24.0	100.0	73.5	22.7
Alaska	100.0	99.1	100.0	100.0	98.2	100.0	100.0	95.8	100.0
Arizona	100.0	79.6	14.6	100.0	79.3	14.7	100.0	81.1	15.8
Arkansas	100.0	35.5	1.7	100.0	24.9	1.4	100.0	23.6	1.3
California	94.9	51.3	4.2	94.5	46.5	4.6	94.4	47.9	3.5
Colorado	100.0	95.1	8.1	100.0	94.4	6.3	100.0	90.2	12.0
Connecticut	95.8	75.2	52.1	94.8	72.8	47.5	95.3	71.5	53.3
Delaware	100.0	32.0	0.2	100.0	19.4	0.3	100.0	28.0	0.3
District of Columbia	74.0	22.1	--	71.1	20.3	--	73.2	18.8	--
Florida	90.8	30.6	2.8	91.6	28.2	2.9	92.0	27.4	3.0
Georgia	100.0	100.0	25.0	100.0	100.0	26.2	100.0	100.0	25.6
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	70.6	2.6	100.0	61.5	3.0
Illinois	90.3	39.7	7.0	90.9	34.1	4.3	88.0	21.3	2.8
Indiana	96.1	68.2	1.8	95.5	66.4	1.6	95.8	56.9	0.9
Iowa	100.0	69.9	3.7	100.0	64.6	2.7	100.0	50.5	1.8
Kansas	100.0	58.4	1.0	100.0	38.5	2.1	100.0	27.8	6.3
Kentucky	98.2	79.5	15.3	98.7	75.6	16.5	98.2	69.8	16.3
Louisiana	100.0	66.5	3.5	100.0	64.1	3.1	100.0	68.3	3.1
Maine	100.0	61.1	8.8	100.0	51.1	7.0	100.0	47.5	5.6
Maryland	77.2	27.0	3.7	77.5	23.6	2.7	72.7	16.4	1.1
Massachusetts	97.6	39.4	26.0	97.4	32.0	20.4	97.4	28.3	22.0
Michigan	94.2	61.1	7.1	94.7	48.7	5.9	94.4	42.6	2.8
Minnesota	100.0	87.6	22.2	100.0	84.5	17.5	100.0	78.4	15.5
Mississippi	100.0	79.9	9.4	100.0	74.9	8.0	100.0	72.1	8.0
Missouri	100.0	71.6	12.6	100.0	62.0	9.4	100.0	57.3	9.8
Montana	99.5	43.7	1.3	99.5	42.1	1.1	99.4	25.8	0.7
Nebraska	87.3	52.7	5.1	86.0	45.7	4.4	89.3	42.0	4.6
Nevada	100.0	58.9	15.7	100.0	51.0	13.4	100.0	48.8	10.2
New Hampshire	100.0	55.1	6.0	100.0	48.0	4.5	100.0	47.0	3.7
New Jersey	96.0	41.1	5.4	96.1	39.6	1.8	95.6	29.6	0.9
New Mexico	100.0	49.8	5.9	99.9	45.2	7.2	100.0	52.0	7.5
New York	100.0	100.0	4.6	100.0	100.0	4.0	100.0	100.0	3.2
North Carolina	100.0	88.6	12.3	100.0	86.5	10.8	100.0	80.9	10.9
North Dakota	100.0	93.6	32.5	100.0	93.2	40.3	100.0	86.3	40.8
Ohio	100.0	100.0	1.0	100.0	100.0	0.6	100.0	100.0	0.5
Oklahoma	100.0	32.9	8.1	100.0	24.7	6.2	100.0	28.9	8.0
Oregon	100.0	94.6	15.7	100.0	93.7	14.8	100.0	92.5	15.9
Pennsylvania	88.9	37.5	0.9	89.3	31.5	0.5	87.6	26.9	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	93.3	41.0	100.0	90.9	39.4	100.0	90.4	39.4
South Dakota	100.0	77.6	6.1	100.0	75.7	4.3	100.0	70.2	1.6
Tennessee	100.0	88.2	23.2	100.0	82.0	23.2	100.0	79.4	21.8
Texas	99.9	74.2	35.5	99.8	68.9	37.1	99.2	63.4	36.7
Utah	100.0	66.2	2.8	100.0	58.9	3.0	100.0	52.4	2.4
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	91.7	56.2	12.3	94.0	48.2	9.1	90.1	41.0	6.9
Washington	100.0	88.5	7.4	100.0	86.5	5.6	100.0	82.5	4.0
West Virginia	100.0	60.0	3.7	100.0	46.4	3.5	100.0	32.0	3.7
Wisconsin	100.0	75.3	19.2	100.0	67.1	18.9	100.0	53.5	15.5
Wyoming	70.5	58.3	1.2	70.1	57.9	1.0	72.8	48.5	1.1
Total	96.4	66.6	14.2	96.5	61.2	14.1	96.2	56.8	13.8

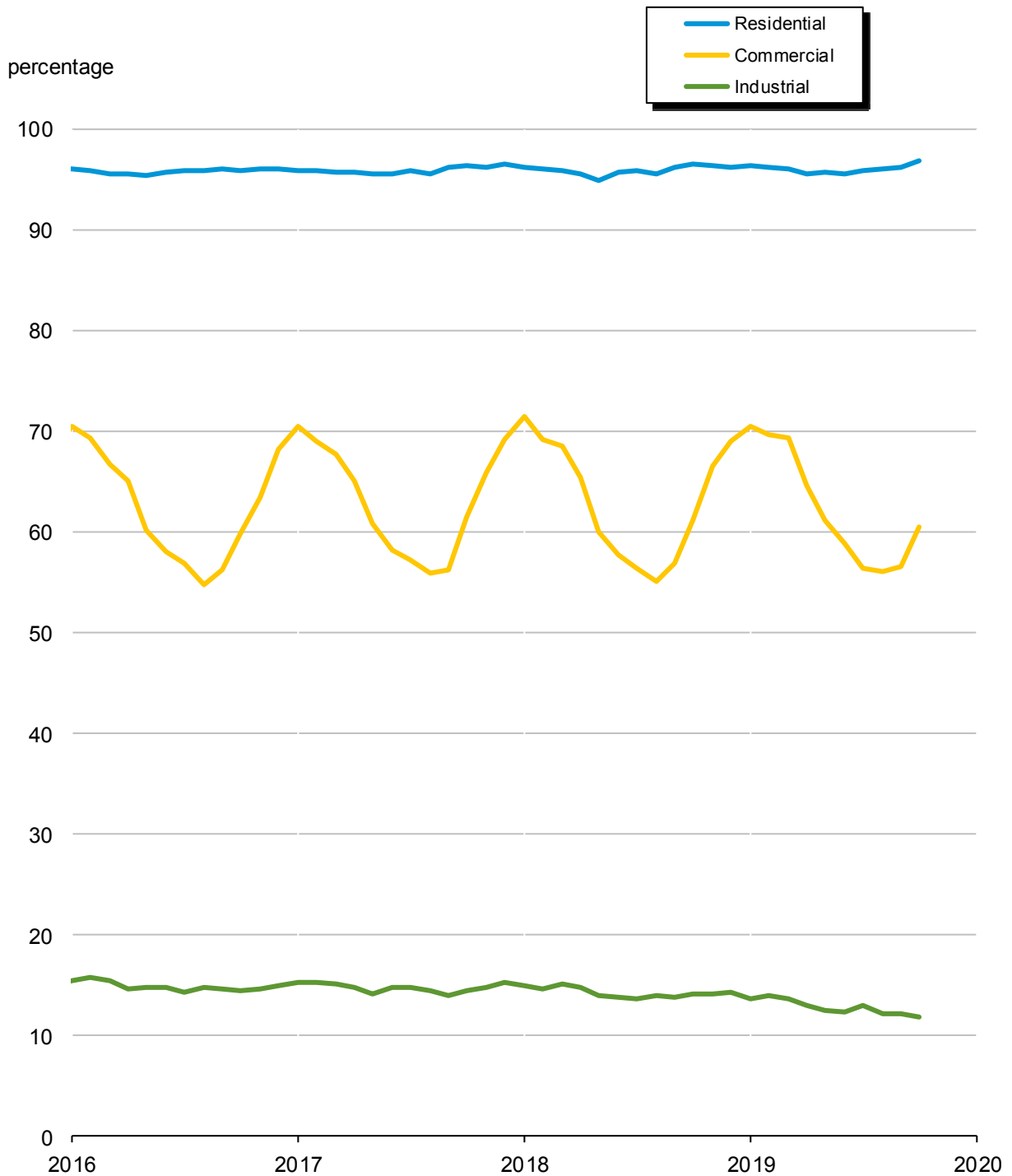
-- Not applicable.

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				
	10-Month YTD	10-Month YTD	10-Month YTD	October	September	August	July	June
Alabama	1,027	1,027	1,030	1,030	1,031	1,031	1,027	1,027
Alaska	981	975	989	994	976	974	979	977
Arizona	1,033	1,041	1,040	1,029	1,030	1,032	1,030	1,031
Arkansas	1,018	1,017	1,025	1,021	1,020	1,019	1,021	1,018
California	1,034	1,034	1,035	1,041	1,038	1,038	1,035	1,031
Colorado	1,090	1,078	1,066	1,096	1,106	1,105	1,109	1,102
Connecticut	1,029	1,028	1,026	1,028	1,028	1,028	1,028	1,027
Delaware	1,038	1,040	1,039	1,037	1,036	1,040	1,035	1,037
District of Columbia	1,040	1,039	1,041	1,026	1,025	1,030	1,033	1,026
Florida	1,023	1,023	1,023	1,025	1,025	1,025	1,025	1,025
Georgia	1,025	1,029	1,031	1,027	1,029	1,028	1,027	1,023
Hawaii	946	963	974	924	967	936	917	954
Idaho	1,030	1,038	1,037	1,033	1,027	1,030	1,022	1,033
Illinois	1,034	1,030	1,030	1,038	1,036	1,034	1,033	1,032
Indiana	1,051	1,046	1,045	1,053	1,058	1,061	1,059	1,055
Iowa	1,065	1,062	1,054	1,077	1,078	1,077	1,080	1,075
Kansas	1,043	1,039	1,037	1,040	1,045	1,046	1,059	1,036
Kentucky	1,046	1,050	1,039	1,045	1,043	1,042	1,044	1,042
Louisiana	1,022	1,022	1,030	1,023	1,020	1,022	1,022	1,024
Maine	1,038	1,042	1,025	1,031	1,033	1,032	1,032	1,036
Maryland	1,044	1,043	1,049	1,036	1,036	1,040	1,039	1,036
Massachusetts	1,031	1,031	1,031	1,029	1,029	1,029	1,030	1,029
Michigan	1,056	1,047	1,042	1,062	1,066	1,061	1,058	1,058
Minnesota	1,051	1,046	1,030	1,063	1,060	1,065	1,059	1,055
Mississippi	1,029	1,026	1,033	1,032	1,030	1,027	1,033	1,029
Missouri	1,025	1,024	1,021	1,027	1,030	1,033	1,032	1,028
Montana	1,048	1,047	1,033	1,046	1,050	1,049	1,052	1,054
Nebraska	1,069	1,059	1,058	1,082	1,082	1,080	1,085	1,078
Nevada	1,042	1,038	1,040	1,048	1,047	1,048	1,048	1,042
New Hampshire	1,032	1,031	1,030	1,030	1,029	1,029	1,030	1,029
New Jersey	1,039	1,038	1,040	1,036	1,035	1,036	1,036	1,035
New Mexico	1,029	1,036	1,043	1,034	1,037	1,032	1,030	1,028
New York	1,032	1,031	1,032	1,030	1,030	1,030	1,031	1,030
North Carolina	1,030	1,028	1,037	1,033	1,030	1,032	1,032	1,031
North Dakota	1,079	1,079	1,054	1,077	1,061	1,059	1,065	1,084
Ohio	1,065	1,064	1,070	1,067	1,065	1,064	1,064	1,062
Oklahoma	1,031	1,032	1,043	1,032	1,035	1,048	1,034	1,028
Oregon	1,054	1,067	1,053	1,063	1,048	1,053	1,053	1,066
Pennsylvania	1,038	1,037	1,039	1,035	1,041	1,037	1,035	1,036
Rhode Island	1,028	1,029	1,030	1,029	1,029	1,028	1,029	1,028
South Carolina	1,026	1,027	1,030	1,030	1,029	1,029	1,028	1,027
South Dakota	1,070	1,065	1,053	1,080	1,076	1,078	1,074	1,077
Tennessee	1,025	1,024	1,026	1,027	1,021	1,021	1,021	1,020
Texas	1,025	1,026	1,030	1,023	1,024	1,028	1,029	1,026
Utah	1,045	1,040	1,042	1,048	1,051	1,050	1,049	1,043
Vermont	1,036	1,033	1,029	1,030	1,032	1,030	1,032	1,033
Virginia	1,052	1,050	1,051	1,051	1,046	1,050	1,049	1,048
Washington	1,066	1,089	1,080	901	1,091	1,086	1,090	1,087
West Virginia	1,091	1,098	1,082	1,085	1,091	1,092	1,098	1,100
Wisconsin	1,043	1,037	1,032	1,040	1,042	1,042	1,041	1,034
Wyoming	1,072	1,059	1,064	1,078	1,075	1,077	1,073	1,060
Total	1,037	1,036	1,036	1,036	1,037	1,038	1,037	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	2019					2018		
	May	April	March	February	January	Total	December	November
Alabama	1,026	1,023	1,021	1,021	1,025	1,028	1,025	1,028
Alaska	967	980	982	981	990	975	976	979
Arizona	1,032	1,035	1,036	1,037	1,036	1,041	1,037	1,043
Arkansas	1,015	1,017	1,016	1,018	1,018	1,017	1,015	1,028
California	1,031	1,032	1,031	1,033	1,032	1,033	1,032	1,033
Colorado	1,094	1,087	1,077	1,078	1,081	1,078	1,083	1,082
Connecticut	1,027	1,028	1,030	1,030	1,030	1,029	1,030	1,029
Delaware	1,037	1,038	1,039	1,040	1,041	1,041	1,040	1,035
District of Columbia	1,031	1,040	1,044	1,046	1,045	1,036	1,045	1,041
Florida	1,022	1,023	1,020	1,020	1,021	1,023	1,022	1,024
Georgia	1,023	1,021	1,021	1,022	1,026	1,028	1,026	1,028
Hawaii	963	958	946	961	938	962	960	953
Idaho	1,039	1,037	1,030	1,029	1,028	1,037	1,027	1,026
Illinois	1,032	1,032	1,033	1,034	1,035	1,029	1,034	1,030
Indiana	1,061	1,049	1,045	1,043	1,043	1,047	1,047	1,045
Iowa	1,063	1,060	1,054	1,054	1,055	1,061	1,061	1,066
Kansas	1,038	1,044	1,036	1,036	1,043	1,038	1,043	1,041
Kentucky	1,043	1,052	1,046	1,050	1,051	1,049	1,058	1,052
Louisiana	1,026	1,023	1,021	1,020	1,021	1,022	1,024	1,019
Maine	1,030	1,036	1,042	1,045	1,048	1,041	1,044	1,042
Maryland	1,039	1,045	1,050	1,050	1,050	1,042	1,042	1,045
Massachusetts	1,029	1,030	1,031	1,034	1,035	1,031	1,032	1,030
Michigan	1,057	1,053	1,051	1,053	1,052	1,047	1,051	1,053
Minnesota	1,055	1,053	1,043	1,026	1,047	1,049	1,038	1,047
Mississippi	1,032	1,030	1,030	1,023	1,023	1,026	1,028	1,027
Missouri	1,028	1,022	1,021	1,020	1,022	1,024	1,023	1,022
Montana	1,051	1,051	1,049	1,045	1,045	1,043	1,045	1,041
Nebraska	1,074	1,073	1,055	1,056	1,059	1,060	1,062	1,064
Nevada	1,039	1,039	1,034	1,039	1,035	1,037	1,034	1,033
New Hampshire	1,028	1,030	1,034	1,035	1,041	1,031	1,035	1,033
New Jersey	1,036	1,038	1,041	1,044	1,044	1,038	1,042	1,041
New Mexico	1,025	1,024	1,022	1,027	1,031	1,036	1,035	1,035
New York	1,030	1,032	1,033	1,034	1,034	1,032	1,034	1,034
North Carolina	1,029	1,030	1,029	1,027	1,027	1,029	1,028	1,030
North Dakota	1,085	1,092	1,087	1,089	1,079	1,080	1,079	1,084
Ohio	1,063	1,065	1,065	1,065	1,065	1,064	1,065	1,065
Oklahoma	1,025	1,027	1,027	1,030	1,022	1,032	1,029	1,028
Oregon	1,063	1,048	1,048	1,054	1,055	1,061	1,049	1,043
Pennsylvania	1,036	1,037	1,038	1,039	1,039	1,038	1,038	1,037
Rhode Island	1,028	1,028	1,028	1,028	1,029	1,029	1,028	1,030
South Carolina	1,027	1,025	1,022	1,021	1,026	1,026	1,025	1,026
South Dakota	1,073	1,067	1,064	1,064	1,062	1,068	1,070	1,075
Tennessee	1,023	1,032	1,027	1,027	1,029	1,030	1,026	1,027
Texas	1,022	1,024	1,022	1,021	1,024	1,028	1,028	1,026
Utah	1,044	1,046	1,043	1,041	1,042	1,040	1,037	1,038
Vermont	1,029	1,034	1,037	1,041	1,042	1,034	1,040	1,036
Virginia	1,049	1,053	1,057	1,056	1,055	1,052	1,061	1,056
Washington	1,083	1,084	1,083	1,086	1,087	1,087	1,084	1,081
West Virginia	1,112	1,091	1,087	1,088	1,085	1,091	1,089	1,061
Wisconsin	1,043	1,044	1,047	1,040	1,046	1,041	1,044	1,045
Wyoming	1,077	1,071	1,070	1,071	1,072	1,064	1,063	1,048
Total	1,035	1,036	1,037	1,037	1,038	1,036	1,038	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	2018							
	October	September	August	July	June	May	April	March
Alabama	1,031	1,028	1,026	1,024	1,027	1,028	1,027	1,028
Alaska	979	970	937	956	953	980	987	982
Arizona	1,043	1,044	1,042	1,041	1,041	1,037	1,035	1,043
Arkansas	1,015	1,013	1,015	1,018	1,017	1,018	1,016	1,017
California	1,033	1,033	1,035	1,035	1,034	1,033	1,031	1,032
Colorado	1,089	1,096	1,091	1,089	1,089	1,081	1,071	1,072
Connecticut	1,028	1,027	1,027	1,027	1,027	1,027	1,029	1,029
Delaware	1,037	1,040	1,037	1,038	1,043	1,035	1,037	1,043
District of Columbia	1,036	1,030	1,027	1,031	1,029	1,027	1,038	1,044
Florida	1,023	1,022	1,021	1,026	1,021	1,023	1,023	1,024
Georgia	1,030	1,031	1,029	1,026	1,028	1,028	1,027	1,029
Hawaii	968	953	932	961	956	974	974	973
Idaho	1,032	1,024	1,020	1,037	1,029	1,058	1,053	1,040
Illinois	1,027	1,025	1,024	1,027	1,026	1,029	1,032	1,031
Indiana	1,043	1,049	1,052	1,051	1,054	1,048	1,042	1,043
Iowa	1,068	1,076	1,069	1,075	1,066	1,061	1,055	1,051
Kansas	1,035	1,036	1,040	1,041	1,048	1,041	1,036	1,037
Kentucky	1,045	1,046	1,046	1,047	1,044	1,046	1,061	1,055
Louisiana	1,024	1,024	1,023	1,022	1,022	1,023	1,019	1,021
Maine	1,044	1,039	1,045	1,047	1,047	1,041	1,042	1,044
Maryland	1,035	1,035	1,034	1,040	1,038	1,041	1,045	1,052
Massachusetts	1,030	1,029	1,030	1,030	1,029	1,029	1,029	1,032
Michigan	1,051	1,049	1,049	1,053	1,053	1,044	1,046	1,047
Minnesota	1,057	1,062	1,060	1,065	1,052	1,040	1,039	1,037
Mississippi	1,027	1,029	1,026	1,026	1,025	1,030	1,025	1,024
Missouri	1,023	1,025	1,028	1,030	1,031	1,027	1,021	1,023
Montana	1,042	1,048	1,055	1,056	1,051	1,048	1,045	1,047
Nebraska	1,074	1,073	1,073	1,072	1,062	1,059	1,053	1,053
Nevada	1,035	1,036	1,037	1,041	1,041	1,041	1,037	1,036
New Hampshire	1,030	1,028	1,029	1,030	1,030	1,028	1,032	1,033
New Jersey	1,036	1,035	1,035	1,035	1,034	1,034	1,039	1,040
New Mexico	1,035	1,039	1,040	1,040	1,042	1,034	1,032	1,031
New York	1,031	1,029	1,030	1,030	1,029	1,029	1,031	1,033
North Carolina	1,035	1,030	1,024	1,026	1,029	1,030	1,025	1,027
North Dakota	1,075	1,071	1,076	1,072	1,076	1,087	1,078	1,080
Ohio	1,064	1,063	1,063	1,061	1,060	1,061	1,065	1,065
Oklahoma	1,027	1,028	1,028	1,029	1,031	1,033	1,032	1,035
Oregon	1,055	1,062	1,059	1,066	1,080	1,080	1,080	1,070
Pennsylvania	1,036	1,036	1,035	1,036	1,036	1,037	1,037	1,039
Rhode Island	1,028	1,029	1,028	1,028	1,028	1,028	1,029	1,029
South Carolina	1,027	1,025	1,024	1,024	1,027	1,028	1,029	1,029
South Dakota	1,078	1,079	1,083	1,065	1,063	1,055	1,058	1,057
Tennessee	1,023	1,021	1,019	1,019	1,022	1,023	1,028	1,028
Texas	1,027	1,027	1,027	1,026	1,027	1,026	1,024	1,025
Utah	1,041	1,042	1,039	1,035	1,040	1,042	1,043	1,034
Vermont	1,031	1,024	1,025	1,030	1,033	1,026	1,034	1,036
Virginia	1,050	1,049	1,050	1,046	1,051	1,048	1,050	1,056
Washington	1,086	1,094	1,091	1,092	1,088	1,088	1,090	1,090
West Virginia	1,133	1,104	1,097	1,101	1,100	1,106	1,091	1,085
Wisconsin	1,043	1,034	1,028	1,034	1,039	1,032	1,040	1,039
Wyoming	1,059	1,065	1,066	1,053	1,057	1,058	1,057	1,057
Total	1,036	1,035	1,034	1,035	1,035	1,034	1,035	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	2018							2017
	February	January	Total	December	November	October	September	August
Alabama	1,026	1,026	1,030	1,027	1,029	1,030	1,031	1,030
Alaska	991	995	989	992	996	983	980	964
Arizona	1,041	1,045	1,041	1,042	1,040	1,039	1,047	1,040
Arkansas	1,019	1,016	1,019	1,014	1,014	1,021	1,020	1,018
California	1,034	1,036	1,035	1,034	1,033	1,032	1,036	1,036
Colorado	1,064	1,066	1,065	1,065	1,061	1,069	1,067	1,074
Connecticut	1,029	1,030	1,028	1,029	1,029	1,026	1,026	1,026
Delaware	1,043	1,044	1,042	1,047	1,044	1,042	1,042	1,040
District of Columbia	1,042	1,047	1,039	1,045	1,041	1,033	1,034	1,034
Florida	1,023	1,024	1,024	1,022	1,020	1,021	1,022	1,025
Georgia	1,028	1,028	1,030	1,026	1,026	1,028	1,032	1,030
Hawaii	971	965	975	989	969	984	978	983
Idaho	1,039	1,045	1,041	1,038	1,031	1,030	1,037	1,034
Illinois	1,033	1,032	1,029	1,031	1,032	1,030	1,027	1,027
Indiana	1,039	1,041	1,043	1,043	1,050	1,049	1,049	1,050
Iowa	1,054	1,054	1,056	1,059	1,058	1,060	1,061	1,059
Kansas	1,036	1,037	1,034	1,032	1,038	1,034	1,037	1,034
Kentucky	1,051	1,054	1,046	1,055	1,056	1,060	1,051	1,042
Louisiana	1,021	1,022	1,022	1,021	1,020	1,023	1,025	1,022
Maine	1,035	1,035	1,030	1,031	1,030	1,022	1,017	1,018
Maryland	1,043	1,051	1,047	1,048	1,038	1,042	1,045	1,047
Massachusetts	1,032	1,033	1,030	1,031	1,030	1,030	1,030	1,031
Michigan	1,046	1,044	1,043	1,044	1,043	1,042	1,043	1,043
Minnesota	1,038	1,037	1,033	1,039	1,038	1,032	1,029	1,027
Mississippi	1,024	1,024	1,032	1,026	1,027	1,027	1,031	1,030
Missouri	1,023	1,023	1,010	1,021	1,021	1,022	1,020	1,021
Montana	1,043	1,044	1,041	1,052	1,045	1,052	1,042	1,048
Nebraska	1,043	1,052	1,061	1,059	1,054	1,065	1,071	1,069
Nevada	1,036	1,038	1,039	1,039	1,030	1,035	1,038	1,039
New Hampshire	1,033	1,036	1,030	1,033	1,031	1,029	1,028	1,028
New Jersey	1,039	1,042	1,039	1,042	1,042	1,036	1,039	1,038
New Mexico	1,035	1,040	1,042	1,042	1,042	1,041	1,046	1,045
New York	1,032	1,033	1,032	1,034	1,033	1,031	1,031	1,031
North Carolina	1,028	1,029	1,036	1,026	1,032	1,040	1,038	1,036
North Dakota	1,074	1,098	1,080	1,104	1,086	1,094	1,100	1,083
Ohio	1,064	1,068	1,070	1,074	1,071	1,076	1,070	1,069
Oklahoma	1,039	1,041	1,042	1,037	1,036	1,036	1,051	1,043
Oregon	1,070	1,063	1,062	1,059	1,062	1,059	1,058	1,067
Pennsylvania	1,039	1,041	1,040	1,042	1,041	1,039	1,039	1,038
Rhode Island	1,029	1,029	1,029	1,029	1,029	1,030	1,030	1,030
South Carolina	1,029	1,029	1,031	1,028	1,029	1,031	1,032	1,030
South Dakota	1,061	1,063	1,055	1,067	1,058	1,056	1,055	1,054
Tennessee	1,027	1,025	1,031	1,031	1,030	1,027	1,026	1,029
Texas	1,024	1,026	1,029	1,029	1,027	1,028	1,034	1,030
Utah	1,042	1,044	1,042	1,043	1,042	1,041	1,041	1,039
Vermont	1,035	1,036	1,030	1,033	1,033	1,026	1,021	1,022
Virginia	1,049	1,053	1,053	1,057	1,052	1,051	1,050	1,051
Washington	1,086	1,085	1,080	1,084	1,084	1,082	1,075	1,083
West Virginia	1,086	1,091	1,083	1,073	1,086	1,081	1,087	1,055
Wisconsin	1,035	1,040	1,035	1,035	1,039	1,034	1,027	1,027
Wyoming	1,060	1,054	1,060	1,052	1,047	1,049	1,050	1,058
Total	1,037	1,038	1,036	1,039	1,037	1,035	1,036	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						
	July	June	May	April	March	February	January
Alabama	1,031	1,030	1,031	1,030	1,028	1,029	1,028
Alaska	974	988	995	994	996	1,000	1,000
Arizona	1,039	1,037	1,038	1,038	1,040	1,043	1,042
Arkansas	1,017	1,019	1,016	1,022	1,017	1,019	1,018
California	1,037	1,037	1,033	1,033	1,034	1,034	1,036
Colorado	1,072	1,069	1,065	1,063	1,062	1,060	1,060
Connecticut	1,026	1,025	1,025	1,025	1,026	1,026	1,026
Delaware	1,038	1,037	1,037	1,041	1,045	1,045	1,047
District of Columbia	1,030	1,029	1,034	1,035	1,047	1,049	1,051
Florida	1,024	1,023	1,024	1,023	1,023	1,025	1,024
Georgia	1,032	1,032	1,033	1,030	1,029	1,033	1,030
Hawaii	987	987	984	959	954	972	955
Idaho	1,035	1,069	1,044	1,051	1,037	1,036	1,036
Illinois	1,027	1,027	1,028	1,030	1,030	1,031	1,033
Indiana	1,049	1,044	1,042	1,036	1,034	1,034	1,038
Iowa	1,058	1,056	1,057	1,055	1,052	1,052	1,052
Kansas	1,034	1,033	1,035	1,041	1,037	1,036	1,042
Kentucky	1,040	1,043	1,028	1,030	1,035	1,035	1,037
Louisiana	1,022	1,020	1,022	1,023	1,022	1,022	1,023
Maine	1,017	1,021	1,022	1,026	1,036	1,049	1,037
Maryland	1,044	1,041	1,046	1,043	1,055	1,056	1,054
Massachusetts	1,032	1,030	1,030	1,029	1,031	1,031	1,031
Michigan	1,042	1,042	1,043	1,039	1,042	1,045	1,045
Minnesota	1,030	1,028	1,034	1,032	1,033	1,028	1,028
Mississippi	1,035	1,035	1,032	1,032	1,035	1,035	1,034
Missouri	1,018	1,020	1,021	1,022	1,021	1,022	1,022
Montana	1,045	1,040	1,026	1,032	1,036	1,034	1,036
Nebraska	1,070	1,066	1,063	1,061	1,058	1,060	1,057
Nevada	1,043	1,044	1,035	1,039	1,039	1,040	1,041
New Hampshire	1,026	1,030	1,029	1,028	1,032	1,036	1,032
New Jersey	1,036	1,036	1,037	1,038	1,043	1,042	1,043
New Mexico	1,043	1,040	1,042	1,040	1,042	1,043	1,045
New York	1,030	1,031	1,031	1,032	1,033	1,033	1,033
North Carolina	1,037	1,038	1,040	1,045	1,033	1,032	1,033
North Dakota	1,085	1,085	1,080	1,080	1,078	1,083	1,076
Ohio	1,067	1,068	1,068	1,069	1,072	1,071	1,071
Oklahoma	1,043	1,044	1,041	1,042	1,041	1,043	1,046
Oregon	1,073	1,086	1,079	1,076	1,035	1,035	1,036
Pennsylvania	1,038	1,038	1,038	1,038	1,040	1,040	1,041
Rhode Island	1,030	1,030	1,029	1,029	1,029	1,029	1,029
South Carolina	1,030	1,030	1,032	1,031	1,030	1,031	1,030
South Dakota	1,054	1,050	1,051	1,049	1,050	1,051	1,055
Tennessee	1,030	1,032	1,032	1,029	1,028	1,031	1,032
Texas	1,030	1,028	1,029	1,030	1,026	1,029	1,027
Utah	1,041	1,041	1,042	1,042	1,043	1,043	1,043
Vermont	1,020	1,026	1,024	1,025	1,033	1,036	1,034
Virginia	1,051	1,052	1,051	1,055	1,057	1,052	1,057
Washington	1,091	1,082	1,077	1,080	1,078	1,075	1,076
West Virginia	1,092	1,105	1,094	1,103	1,086	1,089	1,084
Wisconsin	1,026	1,029	1,036	1,034	1,035	1,038	1,041
Wyoming	1,055	1,053	1,052	1,051	1,055	1,066	1,060
Total	1,035	1,035	1,035	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*.

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

Month/Year/Type of data	New England	Middle Atlantic	East North Central	West North Central	South Atlantic
	CT, ME, MA, NH, RI, VT	NJ, NY, PA	IL, IN, MI, OH, WI	IA, KS, MN, MO, ND, NE, SD	DE, FL, GA, MD, DC, NC, SC, VA, WV
November					
Normal	702	665	758	841	442
2018	780	751	900	987	517
2019	800	767	890	904	518
% Diff (normal to 2019)	14.0	15.3	17.4	7.5	17.2
% Diff (2018 to 2019)	2.6	2.1	-1.1	-8.4	0.2
November to November					
Normal	702	665	758	841	442
2018	780	751	900	987	517
2019	800	767	890	904	518
% Diff (normal to 2019)	14.0	15.3	17.4	7.5	17.2
% Diff (2018 to 2019)	2.6	2.1	-1.1	-8.4	0.2

Month/Year/Type of data	East South Central	West South Central	Mountain	Pacific ^b	U.S. Average ^b
	AL, KY, MS, TN	AR, LA, OK, TX	AZ, CO, ID, MT, NV, NM, UT, WY	CA, OR, WA	
November					
Normal	455	305	739	366	589
2018	557	382	727	269	653
2019	558	350	681	291	644
% Diff (normal to 2019)	22.6	14.8	-7.9	-20.5	9.3
% Diff (2018 to 2019)	0.2	-8.4	-6.3	8.2	-1.4
November to November					
Normal	455	305	739	366	589
2018	557	382	727	269	653
2019	558	350	681	291	644
% Diff (normal to 2019)	22.6	14.8	-7.9	-20.5	9.3
% Diff (2018 to 2019)	0.2	-8.4	-6.3	8.2	-1.4

^a Normal is based on calculations of data from 1971 through 2000.

^b Excludes Alaska and Hawaii.

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

Source: National Oceanic and Atmospheric Administration.

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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 2019 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 IHS Markit. 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 IHS Markit. 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, IHS Markit, 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 140 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:

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

where:

P_j = natural gas price in sector j,

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

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

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

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

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

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

and,

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

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

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

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

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

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

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

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

State	Volume Relative Standard Error (Percent)				Price (Dollars per Thousand Cubic Feet)		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	1.5	1.7	2.9	2.5	0.47	0.24	0.05
Alaska	1.0	7.8	0.0	2.8	0.00	0.66	0.00
Arizona	7.6	3.4	2.1	2.8	0.78	0.22	0.16
Arkansas	3.3	0.3	2.3	1.5	0.60	0.07	0.63
California	1.0	0.4	0.4	0.4	0.27	0.20	0.27
Colorado	1.5	1.6	1.5	0.9	0.08	0.07	0.04
Connecticut	0.7	2.2	0.1	1.1	0.23	0.04	0.01
Delaware	0.0	0.4	0.0	0.1	0.00	0.00	0.00
District of Columbia	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Florida	4.8	1.9	1.0	0.9	0.82	0.29	0.52
Georgia	0.0	0.0	1.2	0.0	0.11	0.09	0.13
Hawaii	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Idaho	0.4	0.4	0.0	NA	0.00	0.01	0.00
Illinois	1.1	2.2	1.6	0.9	0.10	0.07	0.11
Indiana	2.6	2.0	3.4	2.5	0.18	0.05	0.53
Iowa	1.5	1.3	0.9	0.7	0.12	0.11	0.28
Kansas	2.5	1.2	2.0	1.3	0.22	0.25	0.11
Kentucky	2.2	1.9	1.9	1.4	0.31	0.14	0.16
Louisiana	2.4	3.3	2.2	2.1	0.33	0.25	0.11
Maine	0.0	0.0	0.0	0.0	0.00	NA	0.00
Maryland	0.8	1.3	3.3	0.9	0.05	0.03	0.00
Massachusetts	2.1	1.5	1.2	1.0	0.06	0.45	0.13
Michigan	0.8	0.9	1.2	0.6	0.04	0.07	0.06
Minnesota	5.0	3.7	6.1	3.2	0.08	0.09	0.30
Mississippi	2.1	2.1	3.6	3.0	0.40	0.20	0.22
Missouri	2.9	1.2	1.5	1.2	0.39	0.21	0.51
Montana	1.4	0.9	0.1	0.5	0.06	0.10	0.42
Nebraska	1.2	0.7	3.2	2.2	0.11	0.13	0.10
Nevada	0.0	4.1	NA	NA	0.00	0.00	0.06
New Hampshire	0.0	0.0	0.0	0.0	0.00	0.00	0.00
New Jersey	0.0	0.0	6.1	1.7	0.00	0.00	0.00
New Mexico	6.8	0.2	2.6	2.2	0.27	0.18	0.02
New York	0.0	0.0	2.0	0.0	0.12	0.03	0.11
North Carolina	1.0	0.1	1.1	0.7	0.96	0.15	0.20
North Dakota	0.4	0.4	1.4	0.9	0.03	0.02	0.08
Ohio	0.0	0.0	0.8	0.0	0.31	0.05	NA
Oklahoma	6.6	1.7	1.0	0.9	0.15	0.30	0.03
Oregon	0.0	0.0	2.5	1.1	0.00	0.00	0.00
Pennsylvania	2.1	1.2	7.3	4.4	0.00	NA	NA
Rhode Island	0.0	0.0	0.0	0.0	0.00	0.00	0.00
South Carolina	1.6	1.8	0.8	0.7	1.29	0.19	0.23
South Dakota	1.2	0.7	3.0	2.0	0.03	0.02	NA
Tennessee	5.0	3.7	1.3	1.3	0.56	0.23	0.05
Texas	5.5	7.0	2.0	1.9	0.79	0.38	0.02
Utah	1.1	8.9	0.2	2.6	0.00	0.00	0.05
Vermont	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Virginia	4.1	2.1	3.4	2.1	0.44	0.20	0.32
Washington	0.9	0.9	2.8	1.1	0.05	0.03	NA
West Virginia	6.6	0.6	0.3	1.3	0.23	0.14	0.00
Wisconsin	1.4	1.6	0.9	0.7	0.12	0.09	0.08
Wyoming	0.8	0.6	6.2	5.0	0.07	NA	0.02
Total	0.4	0.5	0.6	0.4	0.04	0.04	0.03

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.