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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 January 2017.

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, 2012-2017

(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
2012 Total	29,542	25,283	1,250	24,033	61	1,519	-9	-66	25,538
2013 Total	29,523	25,562	1,357	24,206	55	1,311	546	38	26,155
2014 Total	31,405	27,498	1,608	25,890	60	1,181	-254	-283	26,593
2015									
January	2,771	2,391	141	2,250	5	135	741	-15	3,116
February	2,516	2,193	129	2,063	4	109	757	-8	2,927
March	2,824	2,439	144	2,296	5	93	201	-2	2,592
April	2,750	2,391	141	2,251	5	75	-329	12	2,013
May	2,791	2,444	144	2,300	5	70	-508	-4	1,863
June	2,669	2,368	139	2,229	5	68	-370	-24	1,908
July	2,758	2,448	144	2,304	5	73	-291	-14	2,077
August	2,742	2,446	144	2,302	5	69	-317	2	2,061
September	2,727	2,390	141	2,249	5	46	-381	-11	1,909
October	2,801	2,441	144	2,298	5	68	-339	-38	1,994
November	2,731	2,362	139	2,223	5	63	17	-52	2,255
December	2,814	2,438	144	2,295	5	66	272	-47	2,591
Total	32,895	28,753	1,693	27,060	59	935	-546	-201	27,306
2016									
January	£2,819	£2,424	148	£2,275	5	105	728	-16	3,098
February	£2,668	£2,304	140	£2,164	5	89	403	-3	£2,658
March	£2,823	£2,431	157	£2,274	5	46	59	R-23	2,361
April	£2,682	£2,340	151	£2,188	5	66	-164	-6	2,088
May	£2,779	£2,411	160	£2,250	5	62	-327	R-21	£1,970
June	£2,635	£2,304	156	£2,148	2	61	-223	£15	£2,003
July	£2,710	£2,372	160	£2,213	5	79	-133	27	2,190
August	£2,742	£2,394	152	£2,242	5	49	-124	42	2,214
September	£2,640	£2,303	147	£2,155	5	37	-262	14	1,950
October	£2,718	£2,352	160	£2,192	5	56	-308	R-19	1,926
November	£2,684	£2,308	155	£2,153	5	5	35	-29	£2,169
December	£2,750	£2,356	149	£2,207	5	31	£676	R-49	£2,870
Total	£32,649	£28,296	1,836	£26,461	59	£685	359	R-67	£27,497
2017									
January	£2,730	£2,343	151	£2,193	5	19	675	-6	2,885

^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 2012 through 2015 include underground storage and liquefied natural gas storage. Data for January 2016 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): 57 for 2015; 27 for 2014; 54 for 2013; and 57 for 2012. 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.

^R Revised data.

^E Estimated data.

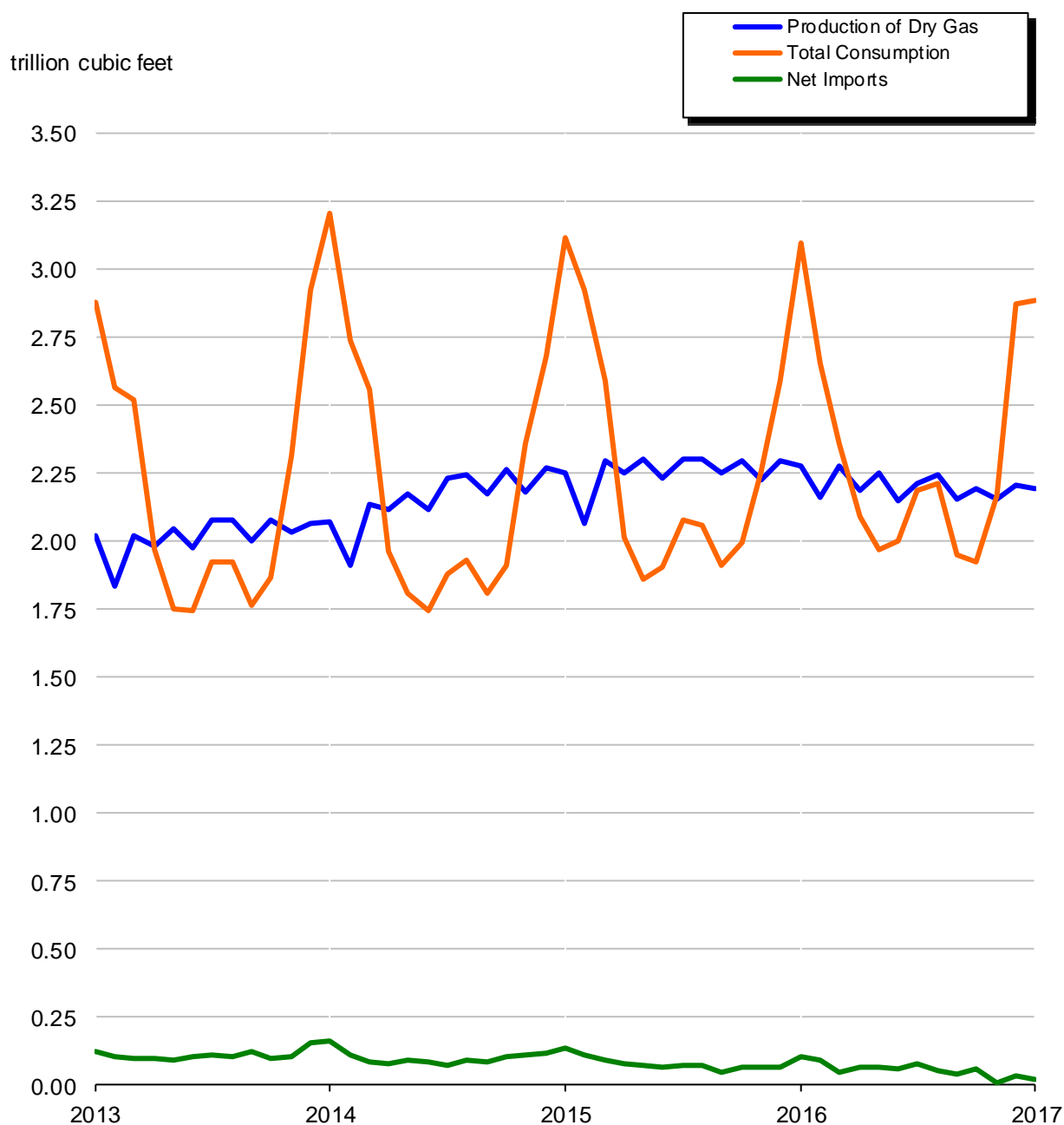
^{RE} Revised estimated data.

Notes: Data for 2012 through 2014 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 2012-2015: Energy Information Administration (EIA), *Natural Gas Annual 2015*. January 2016 through current month: Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report"; Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-191, "Monthly Underground Gas Storage Report"; EIA computations and estimates; and Office of Fossil Energy, "Natural Gas Imports and Exports." See Table 7 for detailed source notes for Marketed Production. See Appendix A, Notes 3 and 4, for discussion of computation and estimation procedures and revision policies.

Figure 1

Figure 1. Production, consumption, and net imports of natural gas in the United States, 2013-2017



Sources: 2013-2015: Energy Information Administration (EIA), *Natural Gas Annual 2015*. January 2016 through current month: Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report"; Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-191, "Monthly Underground Gas Storage Report"; EIA computations and estimates; and Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 2. Natural gas consumption in the United States, 2012-2017

(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		
2012 Total	1,396	731	4,150	2,895	7,226	9,111	30	23,411	25,538	1,024
2013 Total	1,483	833	4,897	3,295	7,425	8,191	30	23,839	26,155	1,027
2014 Total	1,512	700	5,087	3,466	7,646	8,146	35	24,381	26,593	1,032
2015										
January	132	77	937	532	720	714	3	2,906	3,116	1,036
February	121	73	902	517	661	651	3	2,733	2,927	1,036
March	135	64	633	385	663	709	3	2,394	2,592	1,036
April	132	49	319	232	609	668	3	1,832	2,013	1,037
May	135	45	177	160	604	739	3	1,684	1,863	1,037
June	131	46	124	135	576	893	3	1,732	1,908	1,037
July	135	50	108	134	593	1,054	3	1,891	2,077	1,037
August	135	50	103	135	601	1,035	3	1,876	2,061	1,036
September	132	46	108	138	580	902	3	1,731	1,909	1,037
October	135	48	201	195	614	798	3	1,811	1,994	1,037
November	130	55	406	283	639	737	3	2,069	2,255	1,038
December	135	64	591	352	675	771	3	2,393	2,591	1,038
Total	1,587	666	4,610	3,199	7,535	9,671	39	25,054	27,306	1,037
2016										
January	£134	£76	889	£506	719	771	£3	2,889	3,098	1,038
February	£127	£65	698	416	662	686	£3	£2,466	£2,658	1,038
March	£134	£58	458	299	£665	743	£3	£2,169	2,361	1,037
April	£129	£51	330	£233	620	721	£3	1,908	2,088	1,037
May	£133	£48	196	172	613	806	£3	£1,789	£1,970	1,034
June	£127	£49	124	139	£591	971	£3	£1,827	£2,003	1,034
July	£131	£53	108	136	616	1,142	£4	2,006	2,190	1,034
August	£132	£54	102	£141	626	1,155	£4	2,028	2,214	1,037
September	£127	£48	111	143	603	915	£4	£1,775	1,950	1,037
October	£130	£47	189	£192	622	741	£4	1,749	1,926	1,036
November	£127	£53	385	£283	£654	664	£4	£1,989	£2,169	1,037
December	£130	£70	£801	£465	£732	669	£4	£2,670	£2,870	1,039
Total	£1,561	£671	£4,391	£3,125	£7,724	9,984	£41	£25,265	£27,497	1,037
2017										
January	£129	£70	836	479	727	639	£4	2,685	2,885	1,039

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

^b Published pipeline and distribution use data are based on reports collected on an annual basis. Monthly pipeline and distribution use data are estimated from monthly total consumption (excluding pipeline and distribution use) by assuming that the preceding annual percentage remains constant for the next 12 months. Pipeline and distribution use volumes include Line Loss, defined as known volumes of natural gas that were the result of leaks, damage, accidents, migration, and/or blow down.

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

^R Revised data.

^E Estimated data.

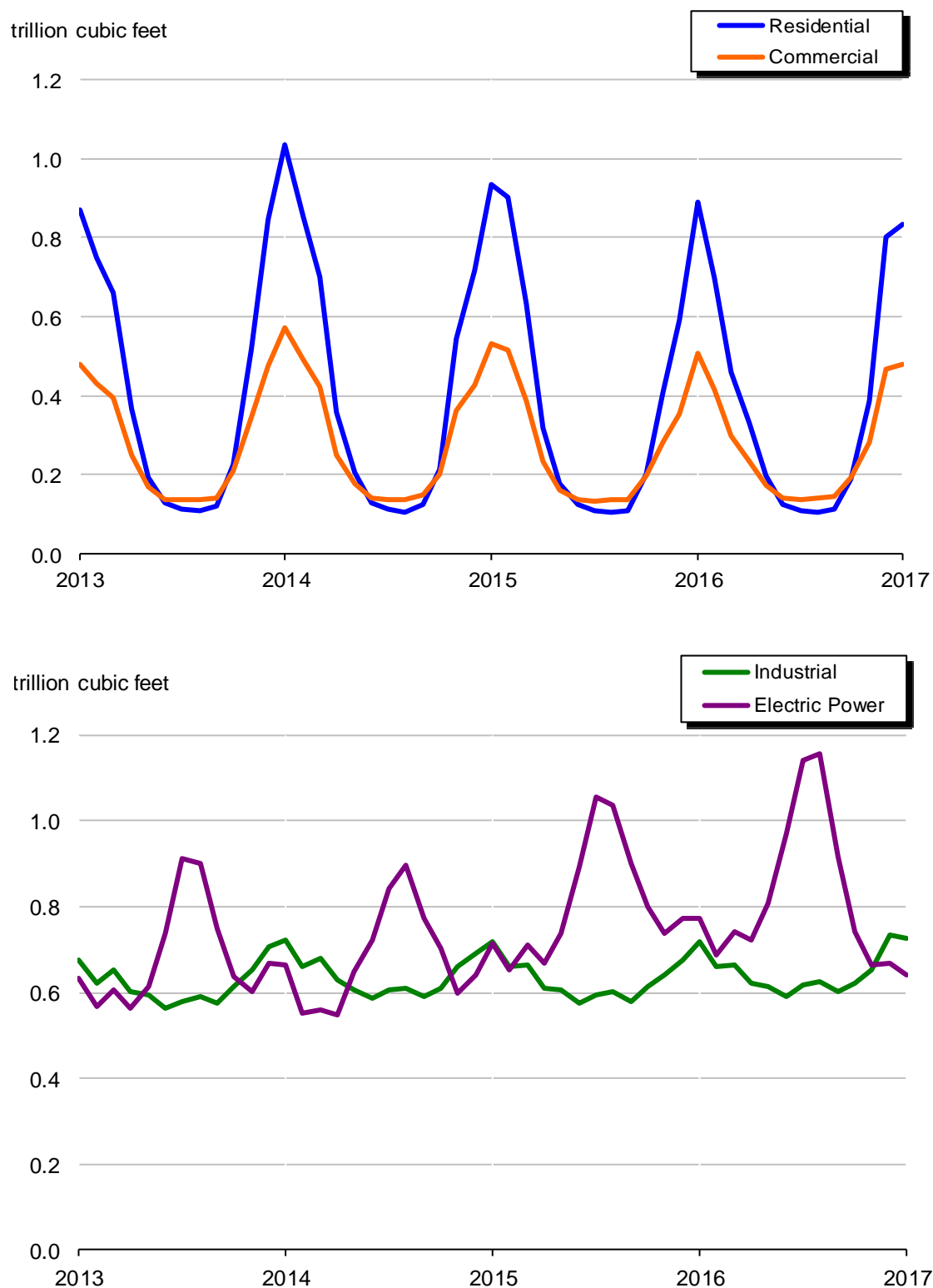
^{RE} Revised estimated data.

Notes: Data for 2012 through 2014 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Note 6, for definition of sectors.

Sources: 2012-2015: 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 2015*. January 2016 through current month: Form EIA-914, "Monthly Natural Gas Production Report"; Form EIA-857; Form EIA-923, "Power Plant Operations Report." See Appendix A, Explanatory Note 6, for computation procedures and revision policy.

Figure 2

Figure 2. Natural gas deliveries to consumers in the United States, 2013-2017



Sources: 2013-2015: 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 2015. January 2016 through current month: Form EIA-857 and Form EIA-923.

Table 3. Selected national average natural gas prices, 2012-2017

(dollars per thousand cubic feet, except where noted)

Year and Month	NGPL Composite Spot Price ^a	Natural Gas Spot Price ^b	Citygate Price	Delivered to Consumers						Electric Power Price ^d
				Residential		Commercial		Industrial		
				Price	% of Total ^c	Price	% of Total ^c	Price	% of Total ^c	
2012 Annual Average	10.98	2.75	4.73	10.65	95.8	8.10	65.2	3.88	16.2	3.54
2013 Annual Average	9.94	3.73	4.88	10.32	95.7	8.08	65.8	4.64	16.6	4.49
2014 Annual Average	9.56	4.37	5.71	10.97	95.5	8.90	65.8	5.62	15.9	5.19
2015										
January	5.08	2.99	4.48	9.50	95.7	8.14	70.9	4.87	15.0	4.29
February	5.70	2.87	4.57	9.08	95.6	7.81	71.0	4.71	15.4	4.99
March	5.52	2.83	4.36	9.28	95.4	7.84	69.9	4.43	15.6	3.71
April	5.58	2.61	3.93	10.44	95.4	8.02	64.8	3.94	14.9	3.23
May	5.25	2.85	4.24	12.73	95.4	8.13	61.2	3.56	15.4	3.28
June	4.78	2.78	4.44	15.07	95.5	8.52	57.9	3.74	14.9	3.24
July	4.73	2.84	4.65	16.28	95.7	8.49	56.9	3.73	14.9	3.23
August	4.42	2.77	4.59	16.89	95.4	8.45	55.6	3.77	14.6	3.22
September	4.89	2.66	4.56	16.40	95.9	8.42	55.8	3.63	14.8	3.19
October	4.95	2.34	4.00	12.60	95.5	7.78	59.5	3.52	14.9	3.03
November	4.72	2.09	3.68	10.02	96.0	7.39	63.9	3.26	15.1	2.78
December	4.23	1.93	3.75	9.27	96.1	7.22	67.6	3.45	15.2	2.71
Annual Average	4.97	2.62	4.26	10.38	95.7	7.91	65.9	3.91	15.1	3.37
2016										
January	3.69	2.28	3.39	8.30	96.1	6.74	₱70.5	3.62	15.3	3.17
February	3.89	1.99	3.48	8.38	95.9	6.82	₱69.4	3.63	15.4	2.83
March	4.48	1.73	3.49	9.21	95.6	7.05	₱66.8	3.04	15.2	2.33
April	4.65	1.92	3.22	9.65	95.6	6.94	₱65.1	₱2.99	14.5	2.52
May	5.11	1.92	3.45	11.61	95.4	7.35	₱60.3	2.91	14.6	2.49
June	5.25	2.59	3.98	₱14.46	95.7	₱7.70	₱58.0	2.89	14.6	2.77
July	4.92	2.82	4.45	16.58	95.9	8.11	₱57.0	3.56	14.3	3.07
August	4.94	2.82	4.37	17.63	95.8	8.25	₱54.9	3.58	14.7	3.07
September	5.25	2.99	4.59	16.80	96.1	8.27	₱56.3	3.73	14.6	3.19
October	6.05	2.98	4.19	13.74	95.9	₱7.94	₱60.0	3.87	14.5	3.24
November	5.45	2.55	3.89	10.76	96.0	7.59	₱63.7	3.86	14.5	3.14
December	6.66	3.59	3.95	9.06	96.0	7.24	₱68.2	4.32	14.8	4.16
Annual Average	5.04	2.52	3.72	10.06	95.9	7.25	₱64.9	3.51	14.8	2.99
2017										
January	6.77	3.30	4.20	9.38	96.0	7.58	70.5	4.90	15.0	4.32

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

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

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

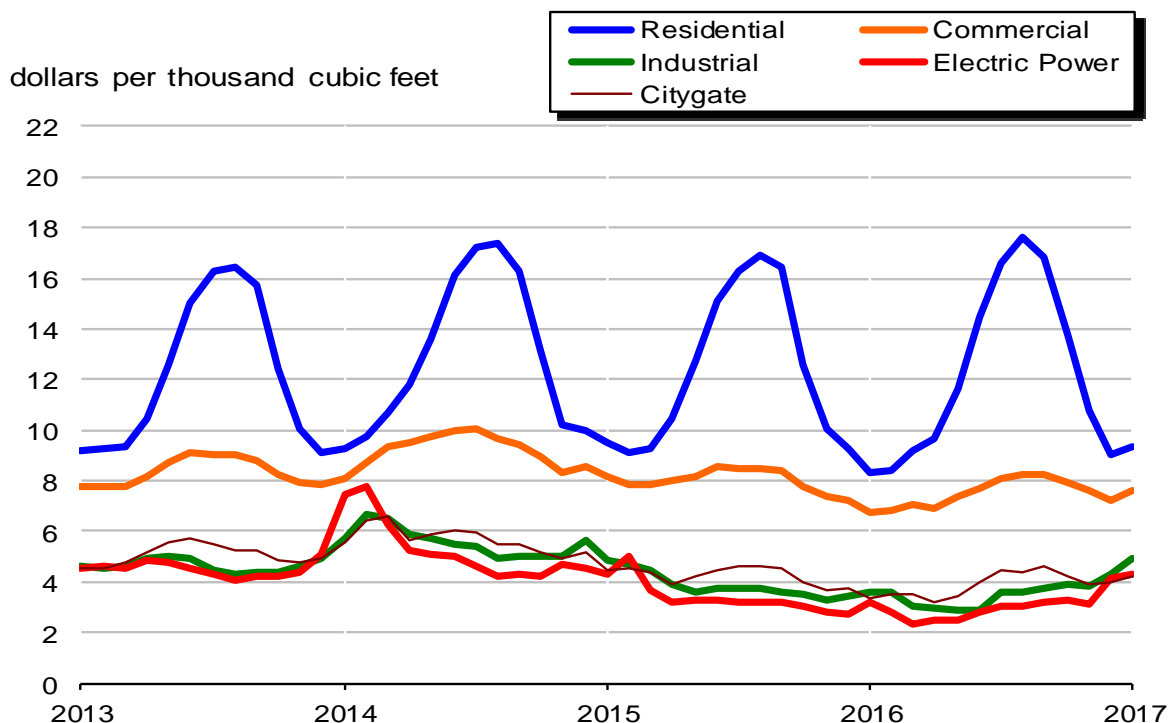
^d The electric power sector comprises electricity-only and combined-heat-and-power plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Data include nonregulated members of the electric power sector.

^R Revised data.

Notes: Prices are in nominal dollars. Data for 2012 through 2014 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Published residential, commercial, and industrial prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges.

Sources: 2012-2015: Energy Information Administration (EIA), *Natural Gas Annual 2015*. January 2016 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

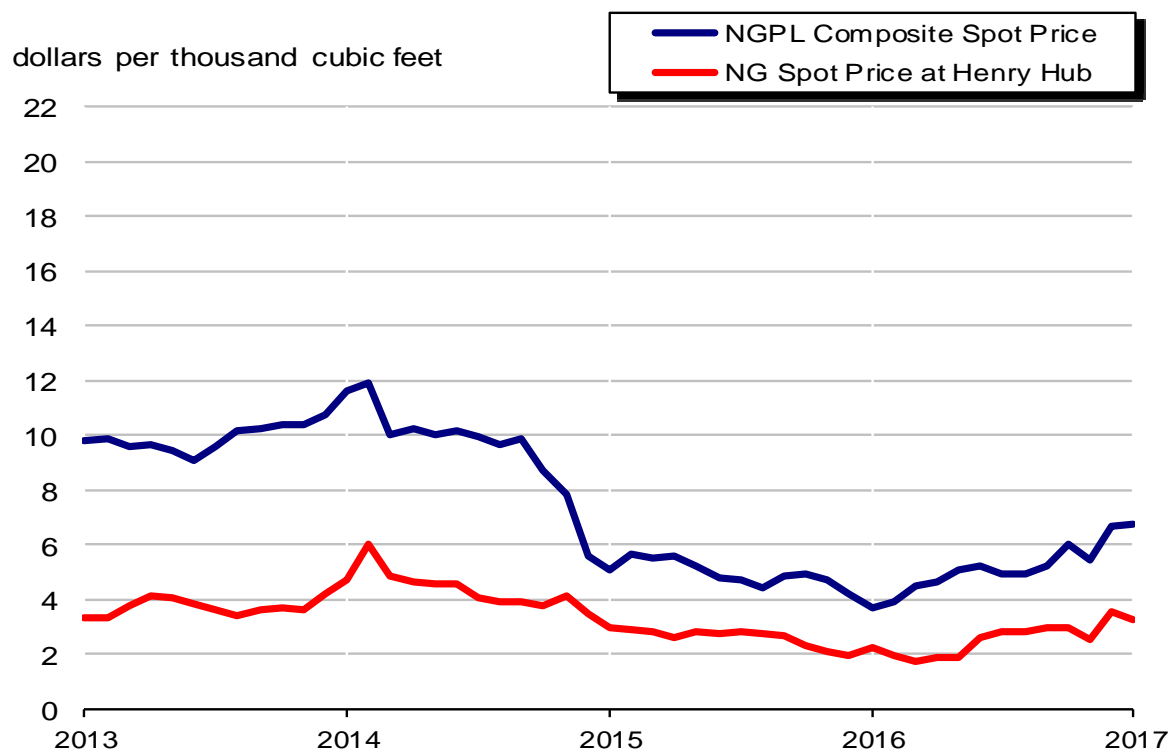
Figure 3. Average citygate and consumer prices of natural gas in the United States, 2013-2017



Note: Prices are in nominal dollars.

Sources: 2013-2015: Energy Information Administration (EIA), *Natural Gas Annual 2015*. January 2016 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

Figure 4. Spot prices of natural gas and natural gas plant liquids in the United States, 2013-2017



Note: Prices are in nominal dollars.

Sources: 2013-2015: Energy Information Administration (EIA), *Natural Gas Annual 2015*. January 2016 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

Table 4. U.S. natural gas imports, 2015-2017

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

	2017					2016
	January	Total	December	November	October	September
Imports						
Volume (million cubic feet)						
Pipeline						
Canada ^a	275,171	2,911,008	270,393	221,390	224,190	234,164
Mexico	83	917	64	83	83	82
Total Pipeline Imports	275,253	2,911,925	270,458	221,473	224,273	234,246
LNG						
By Truck						
Canada	18	924	16	41	58	72
By Vessel						
Nigeria	2,753	0	0	0	0	0
Norway	0	3,253	0	3,253	0	0
Trinidad/Tobago	10,183	84,190	8,838	5,779	5,696	2,810
Yemen	0	0	0	0	0	0
Other	0	0	0	0	0	0
Total LNG Imports	12,955	88,367	8,854	9,073	5,753	2,882
CNG						
Canada	35	299	27	22	25	15
Total Imports	288,243	3,000,591	279,339	230,568	230,051	237,143
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	3.40	2.18	3.31	2.41	2.50	2.42
Mexico	3.29	1.85	2.56	2.34	2.50	2.43
Total Pipeline Imports	3.40	2.18	3.31	2.41	2.50	2.42
LNG						
By Truck						
Canada	9.12	8.07	7.51	7.92	7.93	8.04
By Vessel						
Nigeria	5.82	--	--	--	--	--
Norway	--	3.12	--	3.12	--	--
Trinidad/Tobago	5.48	4.06	4.62	5.96	3.05	3.13
Yemen	--	--	--	--	--	--
Other	--	--	--	--	--	--
Total LNG Imports	5.56	4.07	4.63	4.95	3.10	3.25
CNG						
Canada	10.64	1.97	3.24	0.97	0.72	1.22
Total Imports	3.75	R2.23	3.50	2.70	2.59	2.47
Net Imports - Volume	18,701	R685,204	R30,650	R4,698	55,702	37,418

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2015-2017

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

						2016
	August	July	June	May	April	March
Imports						
Volume (million cubic feet)						
Pipeline						
Canada ^a	252,620	259,132	234,145	243,017	236,451	232,095
Mexico	90	92	83	72	71	69
Total Pipeline Imports	252,710	259,224	234,229	243,088	236,522	232,164
LNG						
By Truck						
Canada	84	70	118	113	74	65
By Vessel						
Nigeria	0	0	0	0	0	0
Norway	0	0	0	0	0	0
Trinidad/Tobago	7,998	5,703	7,520	5,087	4,693	8,503
Yemen	0	0	0	0	0	0
Other	0	0	0	0	0	0
Total LNG Imports	8,082	5,773	7,638	5,200	4,767	8,568
CNG						
Canada	17	25	19	29	28	33
Total Imports	260,809	265,022	241,885	248,317	241,317	240,764
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	2.29	2.26	1.76	1.44	1.51	1.55
Mexico	2.27	2.45	1.41	1.10	1.03	0.82
Total Pipeline Imports	2.29	2.26	1.76	1.44	1.51	1.55
LNG						
By Truck						
Canada	8.11	7.95	7.80	7.72	7.88	8.74
By Vessel						
Nigeria	--	--	--	--	--	--
Norway	--	--	--	--	--	--
Trinidad/Tobago	3.17	3.15	3.11	3.36	3.23	3.25
Yemen	--	--	--	--	--	--
Other	--	--	--	--	--	--
Total LNG Imports	3.23	3.21	3.18	3.45	3.30	3.29
CNG						
Canada	1.20	1.62	0.63	1.10	1.05	1.54
Total Imports	2.42	2.35	1.90	1.55	1.61	1.73
Net Imports - Volume	48,776	78,739	61,138	62,421	65,716	45,849

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2015-2017

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

	2016		2015			
	February	January	Total	December	November	October
Imports						
Volume (million cubic feet)						
Pipeline						
Canada ^a	241,948	261,462	2,625,359	221,550	210,632	217,493
Mexico	70	59	933	64	72	83
Total Pipeline Imports	242,019	261,521	2,626,291	221,613	210,704	217,576
LNG						
By Truck						
Canada	116	97	437	59	45	43
By Vessel						
Nigeria	0	0	0	0	0	0
Norway	0	0	12,194	3,105	3,097	5,992
Trinidad/Tobago	9,612	11,951	71,439	2,453	4,373	2,653
Yemen	0	0	7,441	0	0	0
Other	0	0	0	0	0	0
Total LNG Imports	9,728	12,048	91,511	5,618	7,515	8,689
CNG						
Canada	29	30	291	26	23	21
Total Imports	251,775	273,600	2,718,094	227,257	218,242	226,286
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	2.12	2.42	2.84	2.13	2.19	2.37
Mexico	1.22	1.50	1.71	1.22	1.08	1.55
Total Pipeline Imports	2.12	2.42	2.84	2.13	2.19	2.37
LNG						
By Truck						
Canada	8.58	8.21	8.69	8.12	8.21	8.40
By Vessel						
Nigeria	--	--	--	--	--	--
Norway	--	--	8.56	2.31	2.13	15.12
Trinidad/Tobago	5.08	5.45	6.98	6.08	5.63	6.25
Yemen	--	--	9.10	--	--	--
Other	--	--	--	--	--	--
Total LNG Imports	5.12	5.48	7.37	4.02	4.20	12.38
CNG						
Canada	3.27	5.41	4.18	3.78	3.02	1.99
Total Imports	2.43	2.80	2.99	2.28	2.40	3.23
Net Imports - Volume	89,019	105,079	934,581	65,503	62,503	67,768

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2015-2017

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

						2015
	September	August	July	June	May	April
Imports						
Volume (million cubic feet)						
Pipeline						
Canada ^a	203,066	202,567	209,698	203,583	202,545	202,133
Mexico	83	82	80	73	78	76
Total Pipeline Imports	203,150	202,649	209,779	203,656	202,623	202,209
LNG						
By Truck						
Canada	45	44	41	41	34	39
By Vessel						
Nigeria	0	0	0	0	0	0
Norway	0	0	0	0	0	0
Trinidad/Tobago	5,609	11,161	7,133	2,557	1,673	2,844
Yemen	0	0	0	0	0	0
Other	0	0	0	0	0	0
Total LNG Imports	5,654	11,205	7,173	2,598	1,707	2,883
CNG						
Canada	15	21	21	19	19	28
Total Imports	208,818	213,875	216,973	206,273	204,348	205,120
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	2.49	2.51	2.44	2.43	2.44	2.39
Mexico	1.65	1.84	1.83	1.88	1.58	1.64
Total Pipeline Imports	2.49	2.51	2.44	2.43	2.44	2.39
LNG						
By Truck						
Canada	8.36	8.76	8.43	9.03	8.95	9.50
By Vessel						
Nigeria	--	--	--	--	--	--
Norway	--	--	--	--	--	--
Trinidad/Tobago	6.02	3.43	4.51	6.24	5.98	8.29
Yemen	--	--	--	--	--	--
Other	--	--	--	--	--	--
Total LNG Imports	6.03	3.45	4.53	6.29	6.04	8.31
CNG						
Canada	1.14	0.52	0.45	0.79	0.88	2.02
Total Imports	2.75	2.74	2.66	2.56	2.52	2.59
Net Imports - Volume	46,245	68,991	73,153	68,093	70,074	74,792

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2015-2017

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

	2015		
	March	February	January
Imports			
Volume (million cubic feet)			
Pipeline			
Canada ^a	242,508	241,917	267,666
Mexico	77	79	85
Total Pipeline Imports	242,585	241,996	267,751
LNG			
By Truck			
Canada	46	0	0
By Vessel			
Nigeria	0	0	0
Norway	0	0	0
Trinidad/Tobago	11,770	9,830	9,382
Yemen	2,834	2,373	2,234
Other	0	0	0
Total LNG Imports	14,651	12,202	11,616
CNG			
Canada	38	32	30
Total Imports	257,274	254,230	279,397
Average Price (dollars per thousand cubic feet)			
Pipeline			
Canada	3.16	4.82	4.01
Mexico	1.93	1.93	2.24
Total Pipeline Imports	3.16	4.82	4.01
LNG			
By Truck			
Canada	9.51	--	--
By Vessel			
Nigeria	--	--	--
Norway	--	--	--
Trinidad/Tobago	8.26	9.06	10.90
Yemen	7.42	9.41	10.88
Other	--	--	--
Total LNG Imports	8.10	9.13	10.90
CNG			
Canada	8.55	9.12	8.91
Total Imports	3.90	5.46	4.75
Net Imports - Volume	93,307	109,275	134,875

^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.

^R Revised data.

-- Not applicable.

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

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

Table 5. U.S. natural gas exports, 2015-2017

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

	2017					2016
	January	Total	December	November	October	September
Exports						
Volume (million cubic feet)						
Pipeline						
Canada	98,811	R771,094	R97,178	R74,544	43,471	61,499
Mexico	119,389	1,357,244	109,668	118,328	127,867	121,461
Total Pipeline Exports	218,200	R2,128,338	R206,846	R192,872	171,338	182,961
LNG						
Exports						
By Vessel						
Argentina	0	16,661	0	0	0	0
Barbados	22	100	22	18	15	14
Brazil	0	9,196	0	0	0	0
Chile	0	29,405	0	2,940	0	0
China	3,391	17,221	6,747	7,341	0	0
Dominican Republic	0	2,945	0	0	0	0
Egypt	0	3,606	3,606	0	0	0
India	3,623	16,915	0	3,115	0	3,639
Italy	0	3,328	0	3,328	0	0
Japan	10,533	11,137	11,137	0	0	0
Jordan	5,368	9,870	0	0	2,942	3,362
Kuwait	0	7,068	0	0	0	3,458
Malta	867	0	0	0	0	0
Mexico	14,010	27,470	7,169	13,300	0	3,315
Portugal	3,442	3,700	0	0	0	0
South Korea	0	10,166	10,166	0	0	0
Spain	10,002	2,930	0	0	0	0
Taiwan	0	0	0	0	0	0
Turkey	0	8,762	2,936	2,886	0	2,941
United Arab Emirates	0	3,391	0	0	0	0
By Truck						
Canada	0	2	0	0	1	0
Mexico	85	375	42	48	42	35
Re-Exports						
By Vessel						
Argentina	0	612	0	0	0	0
Brazil	0	1,433	0	0	0	0
Egypt	0	0	0	0	0	0
India	0	547	0	0	0	0
Turkey	0	0	0	0	0	0
Total LNG Exports	51,342	186,841	41,825	32,976	3,000	16,764
CNG						
Canada	0	208	18	22	11	0
Total CNG Exports	0	208	18	22	11	0
Total Exports	269,542	R2,315,387	R248,689	R225,869	174,349	199,725

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2015-2017

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

						2016
	August	July	June	May	April	March
Exports						
Volume (million cubic feet)						
Pipeline						
Canada	55,012	49,750	50,715	62,768	62,931	81,403
Mexico	130,253	120,774	113,570	113,229	102,605	103,413
Total Pipeline Exports	185,265	170,524	164,285	175,997	165,537	184,816
LNG						
Exports						
By Vessel						
Argentina	2,190	0	8,161	0	6,310	0
Barbados	11	8	2	1	3	2
Brazil	3,933	0	0	0	0	3,270
Chile	9,518	6,074	4,643	6,230	0	0
China	0	3,132	0	0	0	0
Dominican Republic	2,945	0	0	0	0	0
Egypt	0	0	0	0	0	0
India	3,701	0	3,617	0	0	2,844
Italy	0	0	0	0	0	0
Japan	0	0	0	0	0	0
Jordan	0	3,566	0	0	0	0
Kuwait	0	0	0	3,610	0	0
Malta	0	0	0	0	0	0
Mexico	3,686	0	0	0	0	0
Portugal	0	0	0	0	3,700	0
South Korea	0	0	0	0	0	0
Spain	0	2,930	0	0	0	0
Taiwan	0	0	0	0	0	0
Turkey	0	0	0	0	0	0
United Arab Emirates	0	0	0	0	0	3,391
By Truck						
Canada	0	0	0	0	0	0
Mexico	30	28	22	33	23	24
Re-Exports						
By Vessel						
Argentina	612	0	0	0	0	0
Brazil	142	0	0	0	0	0
Egypt	0	0	0	0	0	0
India	0	0	0	0	0	547
Turkey	0	0	0	0	0	0
Total LNG Exports	26,768	15,739	16,445	9,874	10,036	10,078
CNG						
Canada	0	20	18	25	28	21
Total CNG Exports	0	20	18	25	28	21
Total Exports	212,033	186,283	180,747	185,897	175,601	194,915

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2015-2017

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

	2016		Total	2015		
	February	January		December	November	October
Exports						
Volume (million cubic feet)						
Pipeline						
Canada	62,192	69,629	700,647	58,603	61,260	57,430
Mexico	97,234	98,841	1,054,271	99,952	91,490	98,314
Total Pipeline Exports	159,426	168,470	1,754,918	158,555	152,750	155,744
LNG						
Exports						
By Vessel						
Argentina	0	0	0	0	0	0
Barbados	2	0	0	0	0	0
Brazil	1,993	0	0	0	0	0
Chile	0	0	0	0	0	0
China	0	0	0	0	0	0
Dominican Republic	0	0	0	0	0	0
Egypt	0	0	0	0	0	0
India	0	0	0	0	0	0
Italy	0	0	0	0	0	0
Japan	0	0	0	0	0	0
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Malta	0	0	0	0	0	0
Mexico	0	0	0	0	0	0
Portugal	0	0	0	0	0	0
South Korea	0	0	0	0	0	0
Spain	0	0	0	0	0	0
Taiwan	0	0	8,257	0	0	0
Turkey	0	0	0	0	0	0
United Arab Emirates	0	0	0	0	0	0
By Truck						
Canada	0	2	41	0	1	0
Mexico	24	25	195	27	21	14
Re-Exports						
By Vessel						
Argentina	0	0	0	0	0	0
Brazil	1,290	0	5,533	0	0	0
Egypt	0	0	2,947	0	2,947	0
India	0	0	0	0	0	0
Turkey	0	0	3,145	3,145	0	0
Total LNG Exports	3,309	26	28,381	3,172	2,969	2,769
CNG						
Canada	22	25	214	27	20	4
Total CNG Exports	22	25	214	27	20	4
Total Exports	162,757	168,521	1,783,512	161,754	155,739	158,517

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2015-2017

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

						2015
	September	August	July	June	May	April
Exports						
Volume (million cubic feet)						
Pipeline						
Canada	59,695	40,986	39,995	44,658	44,672	53,086
Mexico	100,111	101,131	101,031	90,724	86,805	77,196
Total Pipeline Exports	159,806	142,117	141,027	135,382	131,477	130,283
LNG						
Exports						
By Vessel						
Argentina	0	0	0	0	0	0
Barbados	0	0	0	0	0	0
Brazil	0	0	0	0	0	0
Chile	0	0	0	0	0	0
China	0	0	0	0	0	0
Dominican Republic	0	0	0	0	0	0
Egypt	0	0	0	0	0	0
India	0	0	0	0	0	0
Italy	0	0	0	0	0	0
Japan	0	0	0	0	0	0
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Malta	0	0	0	0	0	0
Mexico	0	0	0	0	0	0
Portugal	0	0	0	0	0	0
South Korea	0	0	0	0	0	0
Spain	0	0	0	0	0	0
Taiwan	2,755	0	0	2,754	2,748	0
Turkey	0	0	0	0	0	0
United Arab Emirates	0	0	0	0	0	0
By Truck						
Canada	2	0	5	6	6	6
Mexico	11	10	13	14	15	18
Re-Exports						
By Vessel						
Argentina	0	0	0	0	0	0
Brazil	0	0	0	0	0	0
Egypt	0	0	0	0	0	0
India	0	0	0	0	0	0
Turkey	0	0	0	0	0	0
Total LNG Exports	2,767	2,763	2,771	2,774	2,769	24
CNG						
Canada	0	5	23	23	28	21
Total CNG Exports	0	5	23	23	28	21
Total Exports	162,573	144,885	143,820	138,179	134,274	130,328

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2015-2017

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

	2015		
	March	February	January
Exports			
Volume (million cubic feet)			
Pipeline			
Canada	89,639	77,594	73,028
Mexico	74,286	64,596	68,635
Total Pipeline Exports	163,925	142,190	141,663
LNG			
Exports			
By Vessel			
Argentina	0	0	0
Barbados	0	0	0
Brazil	0	0	0
Chile	0	0	0
China	0	0	0
Dominican Republic	0	0	0
Egypt	0	0	0
India	0	0	0
Italy	0	0	0
Japan	0	0	0
Jordan	0	0	0
Kuwait	0	0	0
Malta	0	0	0
Mexico	0	0	0
Portugal	0	0	0
South Korea	0	0	0
Spain	0	0	0
Taiwan	0	0	0
Turkey	0	0	0
United Arab Emirates	0	0	0
By Truck			
Canada	6	4	6
Mexico	17	16	21
Re-Exports			
By Vessel			
Argentina	0	0	0
Brazil	0	2,728	2,805
Egypt	0	0	0
India	0	0	0
Turkey	0	0	0
Total LNG Exports	23	2,748	2,832
CNG			
Canada	20	17	27
Total CNG Exports	20	17	27
Total Exports	163,967	144,955	144,522

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2015-2017

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

	2017	2016				
	January	Total	December	November	October	September
Exports						
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	3.85	2.60	3.82	2.71	2.72	2.83
Mexico	3.66	2.64	3.52	2.76	3.17	3.07
Total Pipeline Exports	3.75	2.63	3.66	2.74	3.06	2.99
LNG						
Exports						
By Vessel						
Argentina	--	4.47	--	--	--	--
Barbados	10.40	10.12	10.00	10.00	10.00	10.00
Brazil	--	4.39	--	--	--	--
Chile	--	5.30	--	5.64	--	--
China	4.70	4.16	4.50	3.21	--	--
Dominican Republic	--	5.41	--	--	--	--
Egypt	--	6.46	6.46	--	--	--
India	4.70	4.92	--	5.74	--	5.00
Italy	--	6.32	--	6.32	--	--
Japan	6.65	3.76	3.76	--	--	--
Jordan	6.41	5.11	--	--	3.52	5.74
Kuwait	--	4.40	--	--	--	5.58
Malta	4.70	--	--	--	--	--
Mexico	7.15	4.56	4.14	4.64	--	5.53
Portugal	7.29	3.58	--	--	--	--
South Korea	--	5.75	5.75	--	--	--
Spain	6.28	4.92	--	--	--	--
Taiwan	--	--	--	--	--	--
Turkey	--	3.53	3.87	3.30	--	3.41
United Arab Emirates	--	4.18	--	--	--	--
By Truck						
Canada	--	7.50	--	--	7.70	--
Mexico	9.66	9.81	10.20	9.72	10.06	9.78
Re-Exports						
By Vessel						
Argentina	--	4.51	--	--	--	--
Brazil	--	3.64	--	--	--	--
Egypt	--	--	--	--	--	--
India	--	3.99	--	--	--	--
Turkey	--	--	--	--	--	--
Total LNG Exports	6.44	4.71	4.68	4.58	3.65	5.11
CNG						
Canada	--	3.30	4.72	2.55	2.53	--
Total CNG Exports	--	3.30	4.72	2.55	2.53	--
Total Exports	4.26	2.80	3.83	3.01	3.07	3.17

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2015-2017

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

						2016
	August	July	June	May	April	March
Exports						
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	2.65	2.73	2.23	1.98	2.07	1.99
Mexico	2.93	2.80	2.46	2.07	2.03	1.88
Total Pipeline Exports	2.84	2.78	2.39	2.04	2.05	1.93
LNG						
Exports						
By Vessel						
Argentina	4.51	--	4.71	--	4.16	--
Barbados	10.00	10.00	10.00	10.00	10.00	15.19
Brazil	5.29	--	--	--	--	3.83
Chile	5.53	5.82	4.69	4.72	--	--
China	--	5.66	--	--	--	--
Dominican Republic	5.41	--	--	--	--	--
Egypt	--	--	--	--	--	--
India	5.01	--	4.77	--	--	3.98
Italy	--	--	--	--	--	--
Japan	--	--	--	--	--	--
Jordan	--	5.81	--	--	--	--
Kuwait	--	--	--	3.27	--	--
Malta	--	--	--	--	--	--
Mexico	4.23	--	--	--	--	--
Portugal	--	--	--	--	3.58	--
South Korea	--	--	--	--	--	--
Spain	--	4.92	--	--	--	--
Taiwan	--	--	--	--	--	--
Turkey	--	--	--	--	--	--
United Arab Emirates	--	--	--	--	--	4.18
By Truck						
Canada	--	--	--	--	--	--
Mexico	9.72	9.76	9.43	9.67	8.99	8.96
Re-Exports						
By Vessel						
Argentina	4.51	--	--	--	--	--
Brazil	4.57	--	--	--	--	--
Egypt	--	--	--	--	--	--
India	--	--	--	--	--	3.98
Turkey	--	--	--	--	--	--
Total LNG Exports	5.13	5.63	4.72	4.21	3.96	4.01
CNG						
Canada	--	3.88	2.80	3.22	2.58	3.05
Total CNG Exports	--	3.88	2.80	3.22	2.58	3.05
Total Exports	3.13	3.02	2.60	2.15	2.16	2.04

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2015-2017

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

	2016		Total	December	November	2015
	February	January				October
Exports						
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	2.34	2.66	3.15	2.30	2.50	2.76
Mexico	2.20	2.45	2.81	2.30	2.26	2.61
Total Pipeline Exports	2.26	2.54	2.95	2.30	2.36	2.66
LNG						
Exports						
By Vessel						
Argentina	--	--	--	--	--	--
Barbados	10.00	--	--	--	--	--
Brazil	3.54	--	--	--	--	--
Chile	--	--	--	--	--	--
China	--	--	--	--	--	--
Dominican Republic	--	--	--	--	--	--
Egypt	--	--	--	--	--	--
India	--	--	--	--	--	--
Italy	--	--	--	--	--	--
Japan	--	--	--	--	--	--
Jordan	--	--	--	--	--	--
Kuwait	--	--	--	--	--	--
Malta	--	--	--	--	--	--
Mexico	--	--	--	--	--	--
Portugal	--	--	--	--	--	--
South Korea	--	--	--	--	--	--
Spain	--	--	--	--	--	--
Taiwan	--	--	7.49	--	--	--
Turkey	--	--	--	--	--	--
United Arab Emirates	--	--	--	--	--	--
By Truck						
Canada	--	7.41	12.36	--	6.81	--
Mexico	10.16	10.96	10.44	10.90	10.59	10.48
Re-Exports						
By Vessel						
Argentina	--	--	--	--	--	--
Brazil	3.54	--	15.20	--	--	--
Egypt	--	--	16.71	--	16.71	--
India	--	--	--	--	--	--
Turkey	--	--	15.99	15.99	--	--
Total LNG Exports	3.59	10.74	10.92	15.95	16.67	6.53
CNG						
Canada	2.42	5.09	5.73	5.46	4.80	3.42
Total CNG Exports	2.42	5.09	5.73	5.46	4.80	3.42
Total Exports	2.28	2.54	3.07	2.57	2.63	2.73

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2015-2017

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

						2015
	September	August	July	June	May	April
Exports						
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	2.97	2.97	2.84	2.85	2.85	2.91
Mexico	2.77	3.00	3.01	2.94	2.86	2.77
Total Pipeline Exports	2.84	2.99	2.96	2.91	2.85	2.83
LNG						
Exports						
By Vessel						
Argentina	--	--	--	--	--	--
Barbados	--	--	--	--	--	--
Brazil	--	--	--	--	--	--
Chile	--	--	--	--	--	--
China	--	--	--	--	--	--
Dominican Republic	--	--	--	--	--	--
Egypt	--	--	--	--	--	--
India	--	--	--	--	--	--
Italy	--	--	--	--	--	--
Japan	--	--	--	--	--	--
Jordan	--	--	--	--	--	--
Kuwait	--	--	--	--	--	--
Malta	--	--	--	--	--	--
Mexico	--	--	--	--	--	--
Portugal	--	--	--	--	--	--
South Korea	--	--	--	--	--	--
Spain	--	--	--	--	--	--
Taiwan	7.16	--	--	7.80	7.50	--
Turkey	--	--	--	--	--	--
United Arab Emirates	--	--	--	--	--	--
By Truck						
Canada	10.18	--	13.39	12.01	12.14	11.88
Mexico	9.81	9.94	9.96	10.01	9.96	10.03
Re-Exports						
By Vessel						
Argentina	--	--	--	--	--	--
Brazil	--	--	--	--	--	--
Egypt	--	--	--	--	--	--
India	--	--	--	--	--	--
Turkey	--	--	--	--	--	--
Total LNG Exports	7.17	7.91	8.10	7.82	7.53	10.53
CNG						
Canada	--	2.08	2.91	2.44	2.37	3.35
Total CNG Exports	--	2.08	2.91	2.44	2.37	3.35
Total Exports	2.92	3.09	3.06	3.01	2.95	2.83

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2015-2017

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

	2015		
	March	February	January
Exports			
Average Price (dollars per thousand cubic feet)			
Pipeline			
Canada	3.71	4.39	3.63
Mexico	3.03	3.10	3.38
Total Pipeline Exports	3.40	3.81	3.51
LNG			
Exports			
By Vessel			
Argentina	--	--	--
Barbados	--	--	--
Brazil	--	--	--
Chile	--	--	--
China	--	--	--
Dominican Republic	--	--	--
Egypt	--	--	--
India	--	--	--
Italy	--	--	--
Japan	--	--	--
Jordan	--	--	--
Kuwait	--	--	--
Malta	--	--	--
Mexico	--	--	--
Portugal	--	--	--
South Korea	--	--	--
Spain	--	--	--
Taiwan	--	--	--
Turkey	--	--	--
United Arab Emirates	--	--	--
By Truck			
Canada	12.77	12.77	13.27
Mexico	10.52	10.62	11.27
Re-Exports			
By Vessel			
Argentina	--	--	--
Brazil	--	12.89	17.44
Egypt	--	--	--
India	--	--	--
Turkey	--	--	--
Total LNG Exports	11.10	12.87	17.39
CNG			
Canada	10.08	10.53	11.89
Total CNG Exports	10.08	10.53	11.89
Total Exports	3.41	3.98	3.78

^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, 2012-2017
(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
2012 Total	3,164,791	1,146,168	246,822	1,709,376	296,299	2,955,437	66,954	1,276,296	258,568	84,482
2013 Total	3,215,358	1,139,654	252,310	1,604,860	292,467	2,366,943	63,242	1,247,394	345,787	166,017
2014 Total	3,168,545	1,122,733	238,988	1,643,487	286,480	1,968,618	59,160	1,266,379	463,216	512,371
2015										
January	291,928	90,124	19,579	143,307	27,171	151,130	5,016	103,388	45,747	64,049
February	254,488	78,243	17,865	131,720	24,406	140,835	4,575	97,970	41,409	60,157
March	299,987	88,842	19,670	145,431	26,626	153,695	4,876	110,022	47,317	69,570
April	284,701	87,259	20,597	140,951	23,209	151,485	4,909	107,842	46,081	70,792
May	261,374	89,383	21,197	144,431	23,790	156,771	4,994	111,792	50,543	77,865
June	223,007	84,146	19,568	140,779	22,937	145,362	4,784	107,456	49,641	84,693
July	221,334	85,283	19,225	142,461	23,438	150,784	4,941	109,397	51,446	88,406
August	204,070	83,697	19,466	146,089	23,484	149,518	4,756	112,943	50,999	87,904
September	261,160	81,249	18,394	138,917	22,506	145,577	4,573	110,650	48,085	89,371
October	279,437	82,955	18,456	146,669	23,053	149,599	4,827	113,014	51,373	104,127
November	289,760	78,958	17,929	140,798	21,720	145,573	4,562	108,823	50,294	104,731
December	304,055	80,135	19,114	143,282	22,896	144,468	4,608	103,162	51,807	113,185
Total	3,175,301	1,010,274	231,060	1,704,836	285,236	1,784,797	57,421	1,296,458	584,743	1,014,848
2016										
January	298,809	£77,842	£18,737	£143,629	£22,543	£158,907	£4,521	£100,031	£50,146	£112,423
February	273,296	£71,967	£17,100	£134,325	£20,866	£153,090	£4,233	£99,889	£47,912	£116,401
March	295,244	£74,543	£18,166	£143,636	£22,110	£152,390	£4,426	£109,105	£51,852	£120,760
April	246,120	£70,831	£17,618	£139,949	£21,173	£154,885	£4,275	£106,844	£47,507	£118,944
May	269,204	£71,791	£18,074	£144,657	£21,621	£160,319	£4,461	£109,650	£51,206	£121,778
June	233,820	£67,340	£17,229	£136,813	£20,531	£150,242	£4,285	£105,916	£50,039	£115,207
July	239,444	£68,255	£17,568	£142,734	£21,010	£162,636	£4,312	£110,960	£52,714	£117,841
August	250,325	£67,204	£17,814	£146,011	£20,642	£159,759	£4,158	£111,397	£51,172	£132,639
September	249,270	£64,224	£17,174	£140,186	£19,871	£152,314	£4,094	£107,605	£48,297	£131,410
October	271,932	£65,950	£17,602	£145,883	£20,240	£154,845	£4,197	£109,664	£53,381	£126,902
November	293,970	RE63,331	£16,966	RE141,394	RE19,654	RE153,348	RE4,166	RE108,125	RE53,006	RE122,054
December	308,512	RE63,606	£17,378	RE143,984	RE19,283	RE156,711	RE4,126	RE107,778	RE47,889	RE128,716
Total	3,229,946	RE826,884	£211,427	RE1,703,201	RE249,544	RE1,869,445	RE51,256	RE1,286,965	RE605,122	RE1,465,073
2017										
January	301,506	£65,561	£17,222	£142,969	£19,315	£151,391	£4,042	£106,626	£48,187	£130,618

See footnotes at end of table.

Table 6. Gross withdrawals of natural gas in selected states and the Federal Gulf of Mexico, 2012-2017

(million cubic feet) – continued

Year and Month	Oklahoma	Pennsylvania	Texas	Utah	West Virginia	Wyoming	Other States	Federal Gulf of Mexico	U.S. Total
2012 Total	2,023,461	2,256,696	8,143,510	490,393	539,860	2,225,622	1,129,702	1,527,875	29,542,313
2013 Total	1,993,754	3,259,042	8,299,472	470,863	741,853	2,047,757	689,082	1,326,697	29,522,551
2014 Total	2,331,086	4,257,693	8,659,188	454,545	1,067,114	1,998,505	631,536	1,275,738	31,405,381
2015									
January	206,817	408,019	740,385	37,590	110,332	166,745	52,270	107,666	2,771,263
February	186,741	370,836	679,948	34,974	98,200	150,995	47,048	95,362	2,515,773
March	216,067	413,155	756,890	39,723	113,381	170,414	51,081	96,912	2,823,658
April	209,983	392,752	736,605	38,096	110,279	167,169	49,261	108,323	2,750,295
May	214,639	391,332	754,023	38,525	120,138	167,208	50,778	112,453	2,791,236
June	211,079	376,856	727,689	36,673	113,604	164,051	50,068	106,469	2,668,863
July	217,883	401,777	753,526	36,655	115,055	167,282	51,037	118,119	2,758,050
August	213,529	409,771	748,215	33,179	114,871	167,987	50,905	120,585	2,741,970
September	204,298	398,110	731,049	31,097	111,932	163,129	49,140	117,454	2,726,691
October	209,342	407,234	739,603	31,636	108,711	168,572	50,648	112,099	2,801,357
November	201,517	409,344	713,058	30,898	96,829	163,860	48,532	104,003	2,731,190
December	207,703	433,795	720,290	34,255	105,489	166,317	49,888	109,935	2,814,383
Total	2,499,599	4,812,983	8,801,282	423,300	1,318,822	1,983,731	600,656	1,309,380	32,894,727
2016									
January	E214,000	E447,447	E707,527	E34,199	E114,272	E155,930	E49,350	E108,752	E2,819,066
February	E201,258	E430,800	E664,972	E31,283	E108,093	E145,478	E46,199	E101,117	E2,668,278
March	E214,561	E452,601	E702,555	E33,192	E112,282	E156,116	E48,544	E111,315	E2,823,398
April	E203,524	E429,503	E680,919	E31,720	E110,827	E148,710	E46,788	E101,883	E2,682,021
May	E211,836	E441,974	E698,238	E31,762	E114,948	E148,721	E48,257	E110,027	E2,778,526
June	E202,081	E434,819	E675,064	E29,847	E104,295	E145,310	E45,823	E96,330	E2,634,991
July	E210,617	E443,676	E684,636	E30,500	E119,222	E136,600	E47,182	E99,929	E2,709,835
August	E211,218	E443,604	E684,429	E30,359	E119,208	E139,752	E46,706	E105,654	E2,742,050
September	E202,202	E419,040	E652,653	E29,003	E114,934	E145,418	E45,306	E96,905	E2,639,906
October	E206,225	E421,765	E668,817	E29,312	E118,134	E152,671	E46,582	E103,487	E2,717,589
November	RE195,366	RE437,277	RE638,439	RE27,790	E116,078	RE145,935	E44,879	RE101,770	RE2,683,548
December	RE199,718	RE461,453	RE640,437	RE28,203	E122,627	RE146,189	E45,661	RE107,307	RE2,749,578
Total	RE2,472,607	RE5,263,960	RE8,098,685	RE367,170	E1,374,918	RE1,766,830	E561,276	RE1,244,477	RE32,648,786
2017									
January	E198,142	E461,661	E639,247	E27,598	E123,520	E141,167	E45,372	E106,041	E2,730,185

^E Estimated data.^{RE} Revised estimated data.

Notes: For 2014, monthly volumes are available only for those states/areas that were collected individually on the EIA-914 Survey (Louisiana, New Mexico, Oklahoma, Texas, Wyoming, and the Federal Offshore Gulf of Mexico) and Alaska. Starting in 2015, 10 states (Arkansas, California, Colorado, Kansas, Montana, North Dakota, Ohio, Pennsylvania, Utah, and West Virginia) were added to the EIA-914 data collection and are reported individually. The remaining states/areas (Alabama, Arizona, Federal Offshore Pacific, Florida, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) are grouped in the "Other States" category. Monthly preliminary state-level data for all states not collected individually on the EIA-914 survey are available after the final annual reports for these series are collected and processed. Final annual data are generally available in the third quarter of the following year. The sum of individual states may not equal total U.S. volumes due to independent rounding.

Sources: 2012-2015: Energy Information Administration (EIA), *Natural Gas Annual 2015*, and Bureau of Safety and Environmental Enforcement (BSEE) reports. January 2016 through current month: Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and its predecessor, "Monthly Natural Gas Production Report"; BSEE reports; PointLogic Energy; Ventyx; BENTEK Energy; industry reports; and EIA computations.

Table 7. Marketed production of natural gas in selected states and the Federal Gulf of Mexico, 2012-2017
(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
2012 Total	351,259	1,146,168	246,822	1,709,376	296,299	2,955,437	66,954	1,215,773	172,242	84,482
2013 Total	338,182	1,139,654	252,310	1,604,860	292,467	2,360,202	63,242	1,171,640	235,711	166,017
2014 Total	345,310	1,122,733	238,988	1,643,487	286,480	1,960,813	59,160	1,229,519	326,491	512,371
2015										
January	31,439	90,124	19,579	143,307	27,171	150,559	5,016	99,904	34,890	64,049
February	27,510	78,243	17,865	131,720	24,406	140,258	4,575	94,642	32,891	60,157
March	30,523	88,842	19,670	145,431	26,626	152,988	4,876	105,697	37,313	69,570
April	29,759	87,259	20,597	140,951	23,209	150,812	4,909	103,230	37,433	70,792
May	29,124	89,383	21,197	144,431	23,790	156,076	4,994	106,836	40,751	77,865
June	26,000	84,146	19,568	140,779	22,937	144,605	4,784	102,625	40,074	84,693
July	26,682	85,283	19,225	142,461	23,438	150,102	4,941	104,033	40,622	88,406
August	25,176	83,697	19,466	146,089	23,484	148,908	4,756	107,577	39,931	87,904
September	27,601	81,249	18,394	138,917	22,506	144,978	4,573	106,601	38,665	89,371
October	29,190	82,955	18,456	146,669	23,053	148,924	4,827	109,119	43,503	104,127
November	29,589	78,958	17,929	140,798	21,720	144,929	4,562	104,888	41,842	104,731
December	30,941	80,135	19,114	143,282	22,896	143,661	4,608	99,659	43,589	113,185
Total	343,534	1,010,274	231,060	1,704,836	285,236	1,776,800	57,421	1,244,811	471,504	1,014,848
2016										
January	30,686	£77,842	£18,737	£143,629	£22,543	£158,192	£4,521	£95,640	£41,822	£112,423
February	28,434	£71,967	£17,100	£134,325	£20,866	£152,401	£4,233	£95,504	£39,959	£116,401
March	29,893	£74,543	£18,166	£143,636	£22,110	£151,705	£4,426	£104,315	£43,245	£120,760
April	26,259	£70,831	£17,618	£139,949	£21,173	£154,188	£4,275	£102,153	£39,621	£118,944
May	27,071	£71,791	£18,074	£144,657	£21,621	£159,598	£4,461	£104,836	£42,706	£121,778
June	24,882	£67,340	£17,229	£136,813	£20,531	£149,566	£4,285	£101,266	£41,733	£115,207
July	25,025	£68,255	£17,568	£142,734	£21,010	£161,904	£4,312	£106,089	£43,963	£117,841
August	24,918	£67,204	£17,814	£146,011	£20,642	£159,040	£4,158	£106,507	£42,677	£132,639
September	30,524	£64,224	£17,174	£140,186	£19,871	£151,629	£4,094	£102,881	£40,280	£131,410
October	28,546	£65,950	£17,602	£145,883	£20,240	£154,148	£4,197	£104,850	£44,519	£126,902
November	35,778	RE63,331	£16,966	RE141,394	RE19,654	RE152,658	RE4,166	RE103,379	RE44,207	RE122,054
December	31,612	RE63,606	£17,378	RE143,984	RE19,283	RE156,006	RE4,126	RE103,047	RE39,939	RE128,716
Total	343,629	RE826,884	£211,427	RE1,703,201	RE249,544	RE1,861,033	RE51,256	RE1,230,467	RE504,671	RE1,465,073
2017										
January	31,023	£65,561	£17,222	£142,969	£19,315	£150,709	£4,042	£101,945	£40,188	£130,618

See footnotes at end of table.

Table 7. Marketed production of natural gas in selected states and the Federal Gulf of Mexico, 2012-2017

(million cubic feet) – continued

Year and Month	Oklahoma	Pennsylvania	Texas	Utah	West Virginia	Wyoming	Other States	Federal Gulf of Mexico	U.S. Total
2012 Total	2,023,461	2,256,696	7,475,495	490,393	539,860	2,022,275	722,721	1,507,564	25,283,278
2013 Total	1,993,754	3,259,042	7,633,618	470,863	741,853	1,858,207	671,364	1,309,246	25,562,232
2014 Total	2,331,086	4,257,693	7,985,019	454,545	1,067,114	1,794,413	628,854	1,253,678	27,497,754
2015									
January	206,817	408,019	653,831	37,590	110,332	151,386	51,853	105,441	2,391,305
February	186,741	370,836	613,311	34,974	98,200	136,015	46,684	93,580	2,192,608
March	216,067	413,155	676,440	39,723	113,381	152,906	50,775	95,228	2,439,210
April	209,983	392,752	664,552	38,096	110,279	151,289	48,883	106,587	2,391,372
May	214,639	391,332	673,495	38,525	120,138	150,822	50,389	110,517	2,444,303
June	211,079	376,856	657,094	36,673	113,604	148,664	49,620	104,646	2,368,447
July	217,883	401,777	673,240	36,655	115,055	151,190	50,555	116,251	2,447,799
August	213,529	409,771	666,179	33,179	114,871	152,340	50,406	118,791	2,446,056
September	204,298	398,110	659,888	31,097	111,932	147,335	48,631	115,877	2,390,024
October	209,342	407,234	660,433	31,636	108,711	152,643	50,133	110,458	2,441,416
November	201,517	409,344	634,462	30,898	96,829	148,584	48,052	102,500	2,362,132
December	207,703	433,795	647,606	34,255	105,489	150,540	49,384	108,420	2,438,262
Total	2,499,599	4,812,983	7,880,530	423,300	1,318,822	1,793,716	595,365	1,288,296	28,752,935
2016									
January	£214,000	£447,447	£610,242	£34,199	£114,272	£141,444	£48,916	£107,175	£2,423,731
February	£201,258	£430,800	£573,538	£31,283	£108,093	£131,963	£45,792	£99,650	£2,303,567
March	£214,561	£452,601	£605,954	£33,192	£112,282	£141,613	£48,116	£109,700	£2,430,818
April	£203,524	£429,503	£587,292	£31,720	£110,827	£134,894	£46,377	£100,406	£2,339,556
May	£211,836	£441,974	£602,230	£31,762	£114,948	£134,905	£47,832	£108,432	£2,410,513
June	£202,081	£434,819	£582,243	£29,847	£104,295	£131,810	£45,419	£94,933	£2,304,300
July	£210,617	£443,676	£590,498	£30,500	£119,222	£123,910	£46,767	£98,480	£2,372,371
August	£211,218	£443,604	£590,320	£30,359	£119,208	£126,769	£46,295	£104,122	£2,393,504
September	£202,202	£419,040	£562,913	£29,003	£114,934	£131,908	£44,908	£95,499	£2,302,681
October	£206,225	£421,765	£576,854	£29,312	£118,134	£138,487	£46,172	£101,987	£2,351,775
November	RE195,366	RE437,277	RE550,653	RE27,790	£116,078	RE132,378	£44,484	RE100,295	RE2,307,907
December	RE199,718	RE461,453	RE552,377	RE28,203	£122,627	RE132,608	£45,259	RE105,751	RE2,355,693
Total	RE2,472,607	RE5,263,960	RE6,985,115	RE367,170	£1,374,918	RE1,602,691	£556,337	RE1,226,432	RE28,296,417
2017									
January	£198,142	£461,661	£551,351	£27,598	£123,520	£128,053	£44,973	£104,504	£2,343,393

^E Estimated data.^{RE} Revised estimated data.

Notes: For 2014 forward, marketed production is estimated from gross withdrawals using historical relationships between the two. For 2014, monthly volumes are available only for those states/areas that were collected individually on the EIA-914 Survey (Louisiana, New Mexico, Oklahoma, Texas, Wyoming, and the Federal Offshore Gulf of Mexico) and Alaska. Starting in 2015, ten states (Arkansas, California, Colorado, Kansas, Montana, North Dakota, Ohio, Pennsylvania, Utah, and West Virginia) were added to the EIA-914 data collection and are reported individually. The remaining states/areas (Alabama, Arizona, Federal Offshore Pacific, Florida, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) are grouped in the "Other States" category. Monthly preliminary state-level data for all states not collected individually on the EIA-914 Survey are available after the final annual reports for these series are collected and processed. Final annual data are generally available in the third quarter of the following year. The sum of individual states may not equal total U.S. volumes due to independent rounding.

Sources: 2012-2015: Energy Information Administration (EIA), *Natural Gas Annual 2015*, and Bureau of Safety and Environmental Enforcement (BSEE) reports. January 2016 through current month: Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and its predecessor, "Monthly Natural Gas Production Report"; BSEE reports; PointLogic Energy; Ventyx; BENTEK Energy; industry reports; and EIA computations.

Table 8. Underground natural gas storage – all operators, 2012-2017
(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
2012 Total^c	--	--	--	--	--	2,825	2,818	-7
2013 Total^c	--	--	--	--	--	3,156	3,702	546
2014 Total^c	--	--	--	--	--	3,839	3,586	-253
2015								
January	4,361	2,415	6,776	490	25.5	70	795	725
February	4,360	1,674	6,034	474	39.5	62	803	742
March	4,361	1,480	5,841	623	72.6	182	376	193
April	4,360	1,802	6,162	736	69.0	405	84	-321
May	4,363	2,296	6,659	748	48.3	542	44	-497
June	4,367	2,656	7,023	650	32.4	430	68	-362
July	4,372	2,933	7,305	533	22.2	379	96	-283
August	4,364	3,250	7,614	482	17.4	394	85	-309
September	4,365	3,622	7,987	435	13.7	435	63	-372
October	4,365	3,951	8,316	363	10.1	401	70	-331
November	4,368	3,935	8,303	508	14.8	201	214	12
December	4,363	3,675	8,038	534	17.0	138	403	264
Total	--	--	--	--	--	3,639	3,101	-538
2016								
January	4,361	2,949	7,309	534	22.1	66	795	728
February	4,361	2,545	6,906	871	52.0	111	515	403
March	4,352	2,495	6,847	1,015	68.6	215	274	59
April	4,355	2,654	7,009	852	47.3	294	130	-164
May	4,357	2,975	7,332	678	29.5	402	75	-327
June	4,360	3,195	7,555	540	20.3	318	94	-223
July	4,360	3,328	7,687	395	13.5	283	150	-133
August	4,360	3,451	7,811	201	6.2	286	162	-124
September	4,360	3,715	8,074	92	2.5	351	88	-262
October	4,362	4,022	8,385	72	1.8	387	78	-308
November	4,364	3,986	8,350	51	1.3	178	213	35
December	^R 4,371	3,306	^R 7,676	-369	^R -10.1	87	^R 763	^R 676
Total	--	--	--	--	--	2,978	3,337	359
2017								
January	4,370	2,632	7,002	-317	-10.7	101	776	675

^a Total underground storage capacity at the end of each calendar year (in billion cubic feet): 2012 – 8,991; 2013 – 9,173; 2014 – 9,233; and 2015- 9,231. 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.

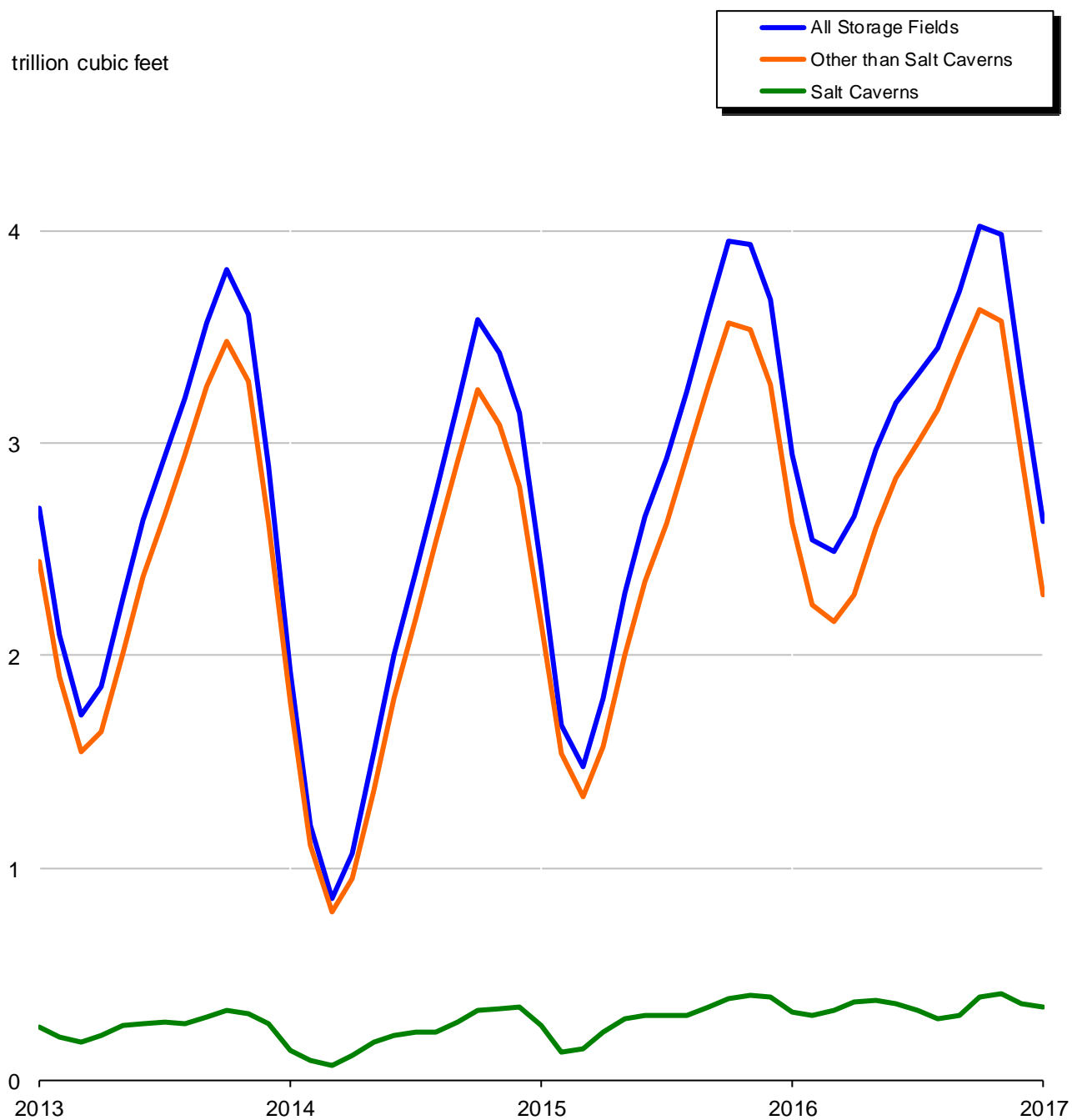
-- Not applicable.

Notes: Data for 2012 through 2014 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013. Change in Working Gas from Same Period, Previous Year, includes data for Alaska, which had no working gas recorded for periods prior to January 2013.

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

Figure 5. Working gas in underground natural gas storage in the United States, 2013-2017

Figure 5



Note: Geographic coverage is the 50 states and the District of Columbia. Alaska was added to U.S. total as of January 2013.
Source: Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 9. Underground natural gas storage – by season, 2015-2017

(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
2015 Heating Season								
November	4,367	3,427	7,794	-178	-5.0	200	361	161
December	4,365	3,141	7,506	251	8.7	143	429	286
January	4,361	2,415	6,776	490	25.5	70	795	725
February	4,360	1,674	6,034	474	39.5	62	803	742
March	4,361	1,480	5,841	623	72.6	182	376	193
Total	--	--	--	--	--	657	2,765	2,108
2015 Refill Season								
April	4,360	1,802	6,162	736	69.0	405	84	-321
May	4,363	2,296	6,659	748	48.3	542	44	-497
June	4,367	2,656	7,023	650	32.4	430	68	-362
July	4,372	2,933	7,305	533	22.2	379	96	-283
August	4,364	3,250	7,614	482	17.4	394	85	-309
September	4,365	3,622	7,987	435	13.7	435	63	-372
October	4,365	3,951	8,316	363	10.1	401	70	-331
Total	--	--	--	--	--	2,986	511	-2,475
2016 Heating Season								
November	4,368	3,935	8,303	508	14.8	201	214	12
December	4,363	3,675	8,038	534	17.0	138	403	264
January	4,361	2,949	7,309	534	22.1	66	795	728
February	4,361	2,545	6,906	871	52.0	111	515	403
March	4,352	2,495	6,847	1,015	68.6	215	274	59
Total	--	--	--	--	--	732	2,199	1,467
2016 Refill Season								
April	4,355	2,654	7,009	852	47.3	294	130	-164
May	4,357	2,975	7,332	678	29.5	402	75	-327
June	4,360	3,195	7,555	540	20.3	318	94	-223
July	4,360	3,328	7,687	395	13.5	283	150	-133
August	4,360	3,451	7,811	201	6.2	286	162	-124
September	4,360	3,715	8,074	92	2.5	351	88	-262
October	4,362	4,022	8,385	72	1.8	387	78	-308
Total	--	--	--	--	--	2,321	778	-1,543
2017 Heating Season								
November	4,364	3,986	8,350	51	1.3	178	213	35
December	^R 4,371	3,306	^R 7,676	-369	^R -10.1	87	^R 763	^R 676
January	4,370	2,632	7,002	-317	-10.7	101	776	675

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

-- Not applicable.

Notes: Data for 2014 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013.

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

Table 10. Underground natural gas storage – salt cavern storage fields, 2012-2017
(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
2012 Total^b	--	--	--	--	--	465	445	-20
2013 Total^b	--	--	--	--	--	492	521	29
2014 Total^b	--	--	--	--	--	634	552	-82
2015								
January	179	260	439	117	82.2	24	105	81
February	179	135	314	40	42.6	15	140	125
March	178	147	325	79	115.5	58	46	-12
April	178	230	407	110	92.3	95	13	-82
May	180	292	472	113	63.3	82	17	-65
June	182	307	488	98	46.9	44	29	-15
July	182	305	487	79	35.0	37	38	1
August	182	309	491	80	35.0	36	32	-4
September	182	341	523	70	25.9	55	24	-31
October	182	384	566	53	16.1	67	24	-43
November	182	398	579	62	18.6	50	37	-13
December	182	395	577	55	16.0	44	46	2
Total	--	--	--	--	--	607	551	-56
2016								
January	181	320	501	60	23.2	29	105	76
February	181	303	485	168	124.4	42	58	16
March	182	331	513	184	125.2	67	39	-28
April	183	367	550	138	60.0	66	27	-38
May	183	377	560	84	28.9	46	36	-10
June	183	357	541	51	16.5	26	45	19
July	183	328	511	22	7.4	32	62	29
August	184	290	474	-19	-6.1	33	69	37
September	185	304	489	-37	-10.9	52	37	-14
October	185	392	577	8	2.1	115	26	-89
November	186	411	598	14	3.4	47	28	-20
December	186	357	544	-38	-9.6	38	92	53
Total	--	--	--	--	--	593	625	32
2017								
January	186	347	533	26	8.2	57	68	11

^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 2012 through 2014 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013.

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

Table 11. Underground natural gas storage – storage fields other than salt caverns, 2012-2017
(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
2012 Total^b	--	--	--	--	--	2,360	2,373	12
2013 Total^b	--	--	--	--	--	2,664	3,181	517
2014 Total^b	--	--	--	--	--	3,205	3,034	-171
2015								
January	4,182	2,155	6,337	373	20.9	46	690	644
February	4,181	1,539	5,720	434	39.2	46	663	616
March	4,182	1,333	5,515	544	68.9	124	330	205
April	4,182	1,572	5,755	625	66.0	310	71	-239
May	4,183	2,004	6,187	635	46.4	460	28	-433
June	4,185	2,349	6,534	552	30.7	386	39	-346
July	4,190	2,627	6,818	454	20.9	342	58	-284
August	4,182	2,941	7,123	401	15.8	358	53	-305
September	4,183	3,281	7,465	365	12.5	380	39	-341
October	4,184	3,566	7,750	310	9.5	334	46	-288
November	4,186	3,537	7,724	446	14.4	151	177	26
December	4,181	3,280	7,461	479	17.1	94	356	262
Total	--	--	--	--	--	3,032	2,549	-482
2016								
January	4,180	2,628	6,808	473	22.0	37	689	652
February	4,180	2,241	6,421	703	45.7	69	456	387
March	4,170	2,164	6,334	831	62.3	149	236	87
April	4,172	2,286	6,459	714	45.4	229	103	-126
May	4,174	2,598	6,772	594	29.6	357	40	-317
June	4,176	2,838	7,014	489	20.8	292	49	-243
July	4,176	3,000	7,176	372	14.2	251	88	-163
August	4,177	3,160	7,337	220	7.5	253	92	-160
September	4,175	3,411	7,586	129	3.9	299	51	-248
October	4,177	3,630	7,807	64	1.8	271	52	-220
November	4,177	3,575	7,752	37	1.1	131	185	55
December	^R 4,185	^R 2,948	^R 7,133	-331	-10.1	48	^R 671	^R 623
Total	--	--	--	--	--	2,385	2,712	^R327
2017								
January	4,184	2,285	6,469	-343	-13.0	44	707	664

^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 2012 through 2014 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013.

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

Table 12. Net withdrawals from underground storage, by state, 2015-2017
(million cubic feet)

State	2017			2016		
	January	Total	December	November	October	September
Alabama	-254	1,019	3,462	-2,161	-5,368	-597
Alaska ^a	2,213	-8,322	1,789	872	139	-1,321
Arkansas	418	-1,688	739	-107	-152	-318
California	50,405	39,603	43,736	1,937	-8,590	-3,383
Colorado	10,983	-4,606	11,693	-1,452	-7,324	-5,111
Illinois	59,371	5,282	53,639	623	-37,807	-41,363
Indiana	5,972	3,478	4,712	-1,533	-2,257	-2,199
Iowa	15,571	6,414	22,217	5,150	-18,715	-18,041
Kansas	18,823	^R 8,381	21,467	876	^R -5,573	-8,157
Kentucky	16,622	^R 9,205	^R 16,756	51	-4,545	-4,548
Louisiana	22,369	39,572	42,587	-3,970	-51,370	-11,031
Maryland	3,915	2,916	2,604	893	133	-150
Michigan	108,702	^R 57,598	^R 108,495	17,030	-27,683	-54,745
Minnesota	321	38	44	14	-104	-197
Mississippi	10,041	27,135	24,501	1,560	-24,918	-3,355
Missouri	163	-156	365	-210	-405	-290
Montana	7,075	-7,364	8,305	2,401	-782	-2,191
Nebraska	2,844	785	2,171	721	-1,221	-1,132
New Mexico	4,466	669	4,345	-1,195	-1,530	75
New York	20,857	20,054	20,132	4,697	-7,006	-12,209
Ohio	36,350	17,390	41,276	14,460	-10,323	-22,602
Oklahoma	35,389	12,705	31,565	-5,705	-11,783	-2,082
Oregon	4,500	2,390	5,032	406	-1,086	-266
Pennsylvania	82,560	76,435	70,114	10,492	-16,859	-43,300
Tennessee	31	-66	71	-14	-34	2
Texas	78,122	38,586	65,863	-17,919	-50,646	112
Utah	11,889	-1,208	12,286	-466	-1,542	-3,455
Virginia	180	189	212	-211	-163	-185
Washington	6,908	-2,216	3,465	448	-109	-3,266
West Virginia	49,846	22,486	44,091	10,717	-7,057	-15,425
Wyoming	8,000	-7,349	8,555	-3,105	-3,717	-1,656
Regions						
East Region	193,707	139,471	178,428	41,048	-41,275	-93,871
South Central Region	164,908	^R 125,710	190,184	-27,426	^R -149,809	-25,428
Midwest Region	206,754	^R 81,793	^R 206,299	21,111	-91,550	-121,381
Mountain Region	45,258	-19,074	47,355	-3,096	-16,117	-13,469
Pacific Region	61,813	39,778	52,233	2,790	-9,785	-6,916
Total Lower 48 States	672,439	^R367,678	^R674,499	34,427	^R-308,536	-261,066
U.S. Total	674,652	^R359,356	^R676,287	35,299	^R-308,397	-262,387

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2015-2017

(million cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	2,250	3,115	1,486	-1,536	-3,383	-323
Alaska ^a	-1,997	-1,976	-1,468	-1,957	-1,441	-451
Arkansas	-564	-517	-724	-801	-444	438
California	4,248	769	-7,766	-16,700	-17,261	-4,805
Colorado	-3,745	-4,892	-5,512	-5,498	1,334	3,688
Illinois	-33,535	-28,440	-32,072	-26,284	4,551	26,092
Indiana	-1,850	-1,850	-2,226	-2,905	527	1,694
Iowa	-14,078	-1,925	-2,856	-2,349	2,150	4,762
Kansas	-2,098	-7,378	-4,701	-13,272	-7,167	-4,070
Kentucky	-128	-2,707	-2,776	-8,262	-16,117	2,150
Louisiana	18,506	16,049	-2,585	-11,540	-20,296	-14,011
Maryland	-1,397	-1,133	-3,022	-1,671	716	-342
Michigan	-36,754	-35,799	-52,688	-65,480	-13,874	30,025
Minnesota	-228	-205	-174	-76	7	515
Mississippi	2,651	7,130	1,758	-6,684	-6,394	-12,187
Missouri	*	0	0	0	0	119
Montana	-3,465	-3,260	-4,908	-5,202	-3,943	-770
Nebraska	-90	-151	-16	-1,099	-630	-103
New Mexico	167	659	-391	-1,615	-1,170	-1,658
New York	-3,017	-3,467	-7,422	-11,246	-1,571	4,660
Ohio	-23,658	-25,774	-26,258	-21,537	-5,040	17,603
Oklahoma	1,055	-3,398	-3,069	-15,348	-9,402	-5,923
Oregon	-16	-887	-511	-1,218	-1,027	-362
Pennsylvania	-18,752	-21,094	-36,463	-32,012	-5,601	20,011
Tennessee	2	3	-38	-27	-17	-32
Texas	21,278	18,530	7,624	-29,546	-38,115	-19,445
Utah	-2,871	-2,671	-4,887	-7,374	-814	-1,928
Virginia	-504	73	-46	-242	-508	135
Washington	-2,091	-788	-1,834	-4,392	-2,918	1,935
West Virginia	-22,388	-29,279	-25,941	-27,290	-14,238	11,571
Wyoming	-769	-1,773	-3,980	-3,858	-2,386	-139
Regions						
East Region	-69,715	-80,674	-99,152	-93,997	-26,243	53,638
South Central Region	43,079	33,529	-212	-78,727	-85,201	-55,521
Midwest Region	-86,571	-70,923	-92,831	-105,382	-22,774	65,327
Mountain Region	-10,773	-12,088	-19,694	-24,646	-7,610	-910
Pacific Region	2,142	-906	-10,112	-22,310	-21,206	-3,232
Total Lower 48 States	-121,839	-131,061	-222,000	-325,062	-163,034	59,302
U.S. Total	-123,835	-133,038	-223,469	-327,019	-164,475	58,851

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2015-2017

(million cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	-713	4,787	-3,817	-249	-1,217	-415
Alaska ^a	-459	-50	782	140	197	-52
Arkansas	328	434	-1,046	-127	-283	-212
California	7,203	40,217	-2,698	44,087	5,699	-18,709
Colorado	2,412	9,800	-5,930	9,420	1,802	-4,141
Illinois	50,274	69,604	-10,603	45,715	-1,164	-36,756
Indiana	5,259	6,106	-4,411	1,569	-1,236	-2,047
Iowa	10,674	19,427	-4,955	16,556	4,637	-14,124
Kansas	11,913	26,541	-11,154	11,377	7,836	-5,912
Kentucky	9,656	19,675	-17,554	7,953	-1,730	-9,465
Louisiana	21,175	56,058	-88,237	8,860	-15,244	-40,257
Maryland	2,294	3,991	-1,304	517	490	-262
Michigan	80,654	108,415	-87,722	30,889	3,499	-60,050
Minnesota	127	315	-78	10	-149	-262
Mississippi	6,944	36,129	-27,879	-723	-4,892	-14,206
Missouri	-168	433	-586	28	-212	-268
Montana	2,057	4,394	-3,197	3,620	2,456	-1,050
Nebraska	549	1,788	-786	979	212	-1,193
New Mexico	1,413	1,568	-19,897	-616	-2,132	-2,258
New York	14,573	21,931	-15,923	2,020	7	-6,129
Ohio	32,160	47,082	-33,025	19,441	7,717	-11,308
Oklahoma	10,070	26,725	-32,397	8,250	3,951	-13,483
Oregon	481	1,845	474	2,338	1,139	-1,330
Pennsylvania	62,426	87,473	-41,111	11,466	-6,135	-31,589
Tennessee	-6	25	-453	-54	-102	-93
Texas	24,128	56,721	-91,530	6,424	-2,086	-41,913
Utah	3,685	8,830	-8,073	6,185	3,131	-1,402
Virginia	17	1,612	-468	48	-270	-545
Washington	5,854	1,480	4,545	2,710	3,788	-792
West Virginia	35,666	62,059	-28,151	23,857	2,855	-9,191
Wyoming	2,448	3,031	-1,237	1,646	-255	-1,419
Regions						
East Region	147,136	224,148	-119,981	57,349	4,664	-59,024
South Central Region	73,846	207,396	-256,060	33,813	-11,936	-116,399
Midwest Region	156,470	224,000	-126,362	102,665	3,543	-123,064
Mountain Region	12,562	29,411	-39,121	21,235	5,213	-11,462
Pacific Region	13,538	43,542	2,322	49,135	10,625	-20,831
Total Lower 48 States	403,552	728,497	-539,203	264,197	12,109	-330,780
U.S. Total	403,093	728,447	-538,421	264,337	12,306	-330,832

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2015-2017

(million cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	-2,416	1,057	-971	-734	-5,684	-6,159
Alaska ^a	92	-108	-171	-78	-71	219
Arkansas	-141	-403	-437	-357	-411	91
California	-6,577	1,758	-8,522	-10,336	-25,451	-16,467
Colorado	-5,250	-5,181	-5,048	-6,817	-5,045	1,888
Illinois	-37,238	-34,172	-32,685	-29,520	-28,714	1,105
Indiana	-3,878	-3,494	-2,687	-2,942	-2,903	-294
Iowa	-16,136	-13,614	-2,563	-6,962	-5,355	541
Kansas	-14,045	-9,249	-16,737	-11,868	-13,935	-2,777
Kentucky	-7,783	-6,294	-5,729	-5,537	-9,947	-14,941
Louisiana	-33,722	-20,717	-17,892	-16,431	-36,612	-45,037
Maryland	-372	-2,786	-2,440	-2,577	-2,522	-254
Michigan	-75,170	-81,284	-74,938	-82,493	-82,150	-42,975
Minnesota	-219	-202	-176	-37	6	6
Mississippi	-16,234	-4,313	-1,700	-11,013	-21,243	-30,471
Missouri	-581	0	0	*	0	0
Montana	-2,101	-3,445	-3,385	-3,128	-2,545	-1,350
Nebraska	-1,296	-965	-77	-1,343	-1,121	-417
New Mexico	-1,275	-1,429	-1,726	-1,306	-2,874	-2,771
New York	-8,376	-8,289	-9,553	-15,297	-12,852	-4,764
Ohio	-22,886	-27,651	-25,160	-26,651	-31,413	-14,797
Oklahoma	-8,189	-6,183	-8,740	-17,758	-30,908	-22,563
Oregon	-1,482	-685	2	-374	-2,416	116
Pennsylvania	-38,785	-35,179	-24,593	-51,105	-62,659	-27,319
Tennessee	-64	-59	-60	-49	-53	-48
Texas	-35,276	-6,397	-1,462	-23,854	-64,583	-68,034
Utah	-4,323	-3,183	-5,792	-5,110	-6,367	-512
Virginia	-623	-508	-87	-509	-600	793
Washington	-2,976	-4,747	278	122	-4,285	-1,199
West Virginia	-22,829	-30,326	-28,865	-25,786	-33,369	-23,204
Wyoming	-1,866	-1,115	-1,186	-1,715	-1,151	308
Regions						
East Region	-93,873	-104,740	-90,699	-121,926	-143,415	-69,546
South Central Region	-110,024	-46,205	-47,939	-82,015	-173,376	-174,950
Midwest Region	-141,069	-139,118	-118,838	-127,539	-129,116	-56,605
Mountain Region	-16,112	-15,317	-17,214	-19,419	-19,103	-2,853
Pacific Region	-11,035	-3,674	-8,243	-10,588	-32,152	-17,550
Total Lower 48 States	-372,112	-309,054	-282,933	-361,486	-497,162	-321,505
U.S. Total	-372,021	-309,162	-283,104	-361,564	-497,234	-321,286

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2015-2017
(million cubic feet) – continued

State	2015		
	March	February	January
Alabama	-243	8,440	4,774
Alaska ^a	235	185	194
Arkansas	234	567	431
California	-4,345	-2,750	38,916
Colorado	920	5,579	5,942
Illinois	21,193	58,104	63,529
Indiana	2,709	5,238	5,552
Iowa	6,384	11,129	14,550
Kansas	-721	26,416	18,461
Kentucky	2,284	20,181	13,454
Louisiana	-1,990	73,436	57,369
Maryland	970	4,876	3,057
Michigan	61,590	176,480	138,879
Minnesota	351	255	337
Mississippi	371	40,415	36,131
Missouri	-976	1,273	151
Montana	-172	3,314	4,588
Nebraska	669	1,778	1,989
New Mexico	-2,404	-1,237	131
New York	12,169	17,191	17,951
Ohio	19,170	37,546	42,969
Oklahoma	1,625	31,015	30,588
Oregon	-732	688	3,212
Pennsylvania	48,329	92,652	83,807
Tennessee	-10	96	42
Texas	4,146	75,241	66,265
Utah	-197	3,249	6,246
Virginia	-1,256	1,821	1,268
Washington	2,520	4,712	4,416
West Virginia	19,424	41,243	58,043
Wyoming	1,217	2,397	1,901
Regions			
East Region	98,805	195,328	207,094
South Central Region	3,421	255,529	214,020
Midwest Region	93,527	272,757	236,494
Mountain Region	34	15,081	20,797
Pacific Region	-2,557	2,649	46,544
Total Lower 48 States	193,230	741,344	724,949
U.S. Total	193,465	741,529	725,144

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

^R Revised data.

^{*} Volume is less than 500,000 cubic feet.

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

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

Table 13. Activities of underground natural gas storage operators, by state, January 2017
(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	23,171	33,621	3,216	16.1	2,745	2,491
Alaska ^a	5	83,592	67,915	14,197	30,319	44,516	6,023	24.8	222	2,435
Arkansas	2	21,853	12,178	12,880	1,840	14,720	466	33.9	259	677
California	14	602,008	371,436	230,605	188,479	419,085	-59,281	-23.9	566	50,971
Colorado	10	130,186	63,774	58,590	34,483	93,072	3,457	11.1	2,572	13,555
Illinois	28	1,004,410	303,613	703,379	143,738	847,117	4,221	3.0	4,164	63,535
Indiana	21	111,581	33,592	77,198	17,278	94,476	-3,275	-15.9	100	6,071
Iowa	4	288,210	90,313	197,897	36,085	233,982	-2,558	-6.6	433	16,004
Kansas	16	282,986	122,982	164,135	68,384	232,519	-642	-0.9	2,858	21,680
Kentucky	23	221,723	107,572	112,941	71,633	184,574	-6,096	-7.8	390	17,012
Louisiana	19	743,373	453,502	278,167	316,708	594,875	-10,141	-3.1	30,315	52,684
Maryland	1	64,000	18,300	45,677	8,565	54,243	-2,839	-24.9	373	4,288
Michigan	44	1,071,630	685,726	386,921	421,323	808,243	-57,918	-12.1	2,267	110,970
Minnesota	1	7,000	2,000	4,848	1,766	6,614	-44	-2.4	0	321
Mississippi	12	334,654	204,713	115,721	132,220	247,940	-803	-0.6	15,786	25,827
Missouri	1	13,845	6,000	7,845	6,254	14,100	209	3.5	941	1,103
Montana	5	376,225	197,477	178,501	20,179	198,679	4,683	30.2	6	7,081
Nebraska	1	34,850	12,653	22,197	6,714	28,911	-1,931	-22.3	14	2,859
New Mexico	2	89,100	59,738	29,362	40,438	69,800	-3,567	-8.1	*	4,466
New York	26	245,779	126,871	114,964	68,785	183,750	-18,808	-21.5	963	21,820
Ohio	24	575,794	230,840	342,918	111,815	454,733	-6,566	-5.5	1,048	37,398
Oklahoma	13	376,528	196,675	179,696	118,206	297,902	-18,006	-13.2	962	36,351
Oregon	7	29,565	15,935	11,186	8,756	19,942	-4,079	-31.8	0	4,500
Pennsylvania	49	760,619	426,361	336,432	223,786	560,217	-64,135	-22.3	5,715	88,275
Tennessee	2	2,400	1,800	878	1,185	2,063	49	4.3	8	40
Texas	36	854,759	550,137	298,584	345,023	643,607	-66,408	-16.1	20,090	98,212
Utah	3	124,509	54,942	69,508	28,347	97,855	-1,850	-6.1	152	12,041
Virginia	2	9,500	5,400	4,100	4,834	8,934	1,243	34.6	1,361	1,541
Washington	1	46,900	24,600	22,300	12,387	34,687	-3,213	-20.6	1,681	8,589
West Virginia	31	530,837	261,343	270,052	110,188	380,240	-10,826	-8.9	1,105	50,951
Wyoming	9	157,744	73,705	67,683	29,039	96,722	2,790	10.6	3,933	11,934
Regions										
East Region	133	2,186,529	1,069,115	1,114,143	527,973	1,642,116	-101,932	-16.2	10,565	204,273
South Central Region	100	2,657,753	1,573,337	1,059,632	1,005,552	2,065,185	-92,318	-8.4	73,015	237,923
Midwest Region	124	2,720,798	1,230,616	1,491,906	699,263	2,191,169	-65,413	-8.6	8,303	215,057
Mountain Region	30	912,614	462,289	425,840	159,200	585,040	3,582	2.3	6,678	51,935
Pacific Region	22	678,473	411,971	264,091	209,623	473,714	-66,573	-24.1	2,247	64,060
Total Lower 48 States	409	9,156,168	4,747,328	4,355,613	2,601,610	6,957,223	-322,654	-11.0	100,808	773,248
U.S. Total	414	9,239,760	4,815,243	4,369,810	2,631,929	7,001,739	-316,631	-10.7	101,030	775,682

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

* Volume is less than 500,000 cubic feet.

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

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

Table 14. Natural gas deliveries to residential consumers, by state, 2015-2017
(million cubic feet)

State	2017			2016		
	January	Total	December	November	October	September
Alabama	4,925	R28,980	R4,979	1,826	893	R633
Alaska	3,191	17,781	2,970	2,314	1,711	828
Arizona	6,674	34,815	4,941	2,295	1,421	1,134
Arkansas	6,148	R26,132	R5,723	R1,761	R706	R587
California	NA	409,429	66,085	37,269	22,105	19,803
Colorado	23,100	122,273	22,187	11,580	5,970	3,231
Connecticut	8,700	47,856	8,119	4,606	2,050	1,000
Delaware	1,933	10,020	1,775	824	292	171
District of Columbia	NA	11,487	2,014	964	345	207
Florida	1,928	15,110	1,594	1,127	1,000	746
Georgia	18,196	117,092	19,653	10,235	4,850	3,821
Hawaii	58	571	52	47	45	49
Idaho	6,127	24,561	5,819	2,626	1,437	681
Illinois	72,082	384,290	76,626	32,672	14,594	7,759
Indiana	23,502	127,080	26,456	11,533	4,363	2,382
Iowa	11,684	60,664	12,573	4,563	1,996	1,317
Kansas	11,693	56,121	12,424	4,929	1,598	1,182
Kentucky	8,298	46,286	9,482	3,929	1,305	778
Louisiana	5,525	R33,472	R5,143	R2,119	R1,480	R1,303
Maine	457	2,625	451	231	134	58
Maryland	NA	75,743	13,462	6,773	2,638	1,421
Massachusetts	19,663	115,739	19,827	10,970	5,604	2,520
Michigan	53,296	301,407	55,042	28,104	15,258	6,808
Minnesota	NA	NA	22,005	10,337	5,652	2,717
Mississippi	3,409	NA	3,772	R1,348	R624	571
Missouri	19,320	92,157	21,067	7,285	2,607	1,663
Montana	4,268	19,815	4,120	2,195	1,434	655
Nebraska	6,989	32,644	6,839	2,344	1,019	698
Nevada	8,457	38,271	6,637	2,832	1,772	1,359
New Hampshire	1,288	7,084	1,289	723	239	158
New Jersey	39,961	219,410	37,077	19,022	9,042	4,785
New Mexico	6,126	32,662	5,918	3,074	1,217	937
New York	73,548	419,700	67,377	38,700	18,644	9,617
North Carolina	11,894	65,037	13,017	6,352	1,732	1,096
North Dakota	2,133	10,155	2,160	875	635	220
Ohio	46,315	256,158	46,063	23,488	10,407	4,734
Oklahoma	11,607	51,819	11,843	3,903	1,774	1,334
Oregon	9,915	40,712	8,999	4,096	2,827	1,226
Pennsylvania	40,654	223,477	39,761	21,335	9,168	4,331
Rhode Island	3,054	17,700	3,153	1,804	932	370
South Carolina	4,844	27,754	5,410	2,633	733	504
South Dakota	2,482	11,787	2,541	908	526	242
Tennessee	11,697	62,836	13,220	4,681	1,503	1,088
Texas	NA	R175,286	R29,021	R9,101	R6,502	R5,346
Utah	13,705	63,797	13,113	6,350	2,973	1,778
Vermont	568	3,396	534	313	143	84
Virginia	NA	75,724	11,855	6,535	2,887	1,452
Washington	16,695	76,179	15,993	7,828	5,538	2,548
West Virginia	4,057	23,559	4,146	2,299	896	366
Wisconsin	23,402	124,213	24,126	10,265	5,535	2,379
Wyoming	2,420	R11,675	R2,366	R1,109	R707	R343
Total	835,989	R4,391,293	R800,815	R385,030	R189,462	R111,018

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2015-2017

(million cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	659	689	849	997	1,678	2,811
Alaska	534	479	534	864	1,233	1,886
Arizona	1,021	1,072	1,314	1,750	2,402	3,064
Arkansas	529	564	665	902	1,457	2,654
California	18,507	19,421	21,129	24,628	28,039	39,564
Colorado	2,751	2,597	2,956	6,531	10,396	14,346
Connecticut	933	1,075	1,365	2,385	4,229	5,562
Delaware	160	171	231	475	823	1,135
District of Columbia	216	246	287	501	791	1,107
Florida	713	736	680	827	980	1,550
Georgia	3,854	3,670	3,801	4,678	6,530	9,664
Hawaii	45	45	45	44	51	49
Idaho	492	518	580	881	1,290	2,532
Illinois	7,419	7,782	9,472	15,751	30,185	41,109
Indiana	2,240	2,063	2,265	4,827	9,496	11,848
Iowa	1,042	1,167	1,173	2,228	4,620	6,723
Kansas	1,030	1,118	1,426	2,331	2,631	5,285
Kentucky	780	725	817	1,509	2,673	4,737
Louisiana	1,330	1,270	1,321	1,579	2,028	2,782
Maine	44	52	63	143	258	342
Maryland	1,339	1,479	1,778	3,331	5,405	7,528
Massachusetts	2,356	2,519	2,893	5,800	10,379	14,183
Michigan	5,012	5,559	6,159	12,489	27,859	33,905
Minnesota	2,525	2,281	2,722	3,803	9,314	11,912
Mississippi	553	567	NA	815	NA	1,730
Missouri	1,739	1,763	1,942	2,934	5,008	8,781
Montana	420	415	534	969	1,336	2,084
Nebraska	657	704	894	1,354	2,295	3,457
Nevada	1,183	1,243	1,486	1,952	2,449	3,452
New Hampshire	133	134	173	307	626	831
New Jersey	4,501	5,901	6,524	10,990	18,208	24,355
New Mexico	776	841	1,087	1,549	2,184	3,349
New York	9,441	10,979	13,039	22,528	37,670	48,649
North Carolina	1,054	1,055	1,231	1,670	3,327	5,172
North Dakota	177	164	183	378	778	1,086
Ohio	4,832	4,251	4,876	10,529	21,466	26,937
Oklahoma	1,214	1,160	1,409	1,811	2,441	4,745
Oregon	890	1,005	1,173	1,648	2,280	4,595
Pennsylvania	4,094	4,264	5,242	9,866	17,384	23,082
Rhode Island	242	276	335	767	1,541	1,991
South Carolina	487	450	502	723	1,408	2,293
South Dakota	212	198	232	529	983	1,317
Tennessee	974	1,070	1,234	1,772	3,312	5,827
Texas	5,374	5,948	7,068	7,366	11,575	16,582
Utah	1,363	1,710	1,460	2,988	4,442	6,215
Vermont	74	89	109	196	357	380
Virginia	1,346	1,403	2,054	3,072	5,427	8,183
Washington	1,779	1,853	2,296	3,165	4,151	8,883
West Virginia	326	367	375	735	1,808	2,668
Wisconsin	2,103	2,338	2,581	5,006	11,130	14,251
Wyoming	253	228	290	754	953	1,270
Total	101,727	107,674	123,594	195,629	330,232	458,440

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2015-2017

(million cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	5,627	7,340	32,709	3,492	2,079	956
Alaska	2,068	2,359	18,574	2,683	2,317	1,429
Arizona	5,763	8,638	34,507	6,665	3,133	1,345
Arkansas	4,770	5,813	32,998	4,259	2,357	794
California	43,489	69,390	401,172	73,056	44,392	19,235
Colorado	17,334	22,396	122,364	22,545	16,187	5,800
Connecticut	7,947	8,584	50,975	4,749	3,846	2,101
Delaware	1,879	2,084	11,260	1,049	772	406
District of Columbia	2,285	2,524	13,494	1,456	994	567
Florida	2,384	2,772	15,044	1,425	1,204	1,070
Georgia	19,992	26,344	118,025	11,963	10,264	5,883
Hawaii	47	52	572	47	44	44
Idaho	3,241	4,466	23,482	4,842	3,704	1,017
Illinois	62,368	78,554	400,876	50,976	36,127	18,138
Indiana	21,727	27,880	133,045	16,792	11,707	5,768
Iowa	10,123	13,139	62,739	9,058	5,499	2,408
Kansas	8,935	13,233	57,408	8,784	5,493	2,143
Kentucky	8,694	10,856	49,426	5,853	4,167	1,640
Louisiana	5,204	7,912	36,046	3,679	2,331	1,503
Maine	401	450	2,700	315	246	145
Maryland	13,550	17,039	82,858	8,376	6,235	3,881
Massachusetts	18,657	20,032	126,662	12,658	9,466	5,833
Michigan	48,755	56,459	312,098	35,475	28,390	16,422
Minnesota	NA	24,767	117,586	17,835	10,603	5,140
Mississippi	3,307	5,159	23,248	2,448	1,833	833
Missouri	15,238	22,130	95,503	12,940	7,731	3,096
Montana	2,377	3,276	18,796	3,263	2,636	1,042
Nebraska	5,397	6,986	34,663	5,620	2,921	1,081
Nevada	5,542	8,364	37,029	7,344	4,218	1,449
New Hampshire	1,136	1,334	7,842	884	680	251
New Jersey	35,568	43,438	237,104	22,176	16,145	8,928
New Mexico	4,976	6,754	33,130	6,207	3,759	1,247
New York	67,663	75,393	452,148	44,300	33,879	20,673
North Carolina	13,015	16,316	64,523	6,836	6,169	2,737
North Dakota	1,524	1,975	10,552	1,698	1,060	509
Ohio	44,213	54,362	285,306	30,726	22,078	12,188
Oklahoma	7,832	12,354	59,387	9,335	5,700	1,814
Oregon	4,943	7,032	37,257	6,962	5,748	1,772
Pennsylvania	38,618	46,333	235,635	24,488	18,219	11,556
Rhode Island	2,872	3,416	20,042	1,952	1,632	1,063
South Carolina	5,713	6,899	27,417	3,019	2,374	1,032
South Dakota	1,785	2,314	11,751	2,016	1,174	478
Tennessee	12,089	16,067	67,301	7,707	4,810	1,967
Texas	30,037	41,366	211,370	28,032	11,027	6,334
Utah	9,011	12,393	58,562	12,346	8,345	2,015
Vermont	541	576	3,833	402	294	168
Virginia	14,331	17,179	85,464	8,151	6,455	3,540
Washington	9,250	12,895	71,952	12,477	11,223	4,202
West Virginia	4,221	5,352	24,807	2,449	2,120	1,235
Wisconsin	19,744	24,754	126,854	16,449	11,077	6,091
Wyoming	1,490	1,912	11,576	2,277	1,489	437
Total	698,261	889,409	4,609,670	590,535	406,355	201,405

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2015-2017

(million cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	710	705	720	765	1,111	1,694
Alaska	1,040	531	499	589	883	1,473
Arizona	1,080	978	1,065	1,320	1,820	2,191
Arkansas	585	556	598	666	941	1,631
California	17,032	17,399	18,932	20,889	27,358	29,622
Colorado	2,924	2,403	2,633	3,115	7,343	8,503
Connecticut	948	970	1,089	1,330	2,112	4,766
Delaware	168	178	175	194	289	754
District of Columbia	276	262	264	256	456	866
Florida	626	628	824	859	924	1,217
Georgia	3,800	3,751	3,663	3,679	4,354	5,538
Hawaii	41	43	45	46	46	54
Idaho	652	367	494	521	900	1,736
Illinois	8,118	7,790	7,959	9,419	13,194	26,783
Indiana	2,419	2,008	2,172	2,309	3,713	8,643
Iowa	1,280	1,052	1,189	1,394	2,157	4,112
Kansas	1,569	1,418	1,132	1,357	1,823	2,487
Kentucky	885	889	899	900	1,217	2,309
Louisiana	1,326	1,178	1,266	1,260	1,642	1,842
Maine	48	48	49	71	95	224
Maryland	1,542	1,580	1,657	1,783	2,200	4,975
Massachusetts	2,486	2,463	2,641	3,330	4,364	10,124
Michigan	6,006	5,872	5,572	6,616	10,476	22,109
Minnesota	2,331	2,553	2,292	2,435	3,958	8,177
Mississippi	728	589	620	652	718	1,060
Missouri	1,646	1,729	1,595	1,807	2,514	6,206
Montana	494	379	382	401	903	1,448
Nebraska	683	695	809	971	1,343	2,137
Nevada	1,228	1,189	1,120	1,497	1,901	2,366
New Hampshire	153	146	151	186	244	596
New Jersey	4,507	4,589	5,481	6,160	8,995	21,273
New Mexico	829	840	808	1,262	1,572	1,919
New York	10,201	10,144	10,330	13,068	18,250	36,469
North Carolina	1,092	1,214	1,016	1,123	1,308	2,814
North Dakota	199	209	168	205	447	720
Ohio	4,677	4,717	5,012	6,095	9,819	22,267
Oklahoma	1,240	1,227	1,204	1,327	1,936	2,647
Oregon	1,195	825	844	968	1,703	3,258
Pennsylvania	4,796	4,062	4,148	5,380	7,625	17,156
Rhode Island	391	404	437	498	577	1,426
South Carolina	549	513	502	496	687	1,066
South Dakota	228	219	190	278	508	783
Tennessee	1,155	995	1,033	1,201	1,606	3,087
Texas	5,401	4,874	6,479	6,360	6,857	10,986
Utah	1,329	1,555	1,634	1,958	3,129	4,515
Vermont	81	74	89	107	156	367
Virginia	1,903	1,475	1,526	1,649	2,226	4,750
Washington	2,615	1,638	1,701	1,916	3,105	5,975
West Virginia	385	337	243	416	668	1,631
Wisconsin	2,502	2,310	2,478	2,481	4,550	9,496
Wyoming	300	199	244	410	731	888
Total	108,401	102,770	108,073	123,975	177,453	319,134

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2015-2017
(million cubic feet) – continued

State	2015		
	March	February	January
Alabama	3,858	8,542	8,077
Alaska	2,174	2,212	2,743
Arizona	3,200	4,275	7,435
Arkansas	4,838	7,706	8,067
California	32,140	40,902	60,216
Colorado	12,871	16,449	21,591
Connecticut	8,749	10,279	10,035
Delaware	2,076	2,533	2,665
District of Columbia	2,046	2,886	3,166
Florida	1,364	2,443	2,459
Georgia	12,196	26,722	26,213
Hawaii	51	52	60
Idaho	2,203	2,701	4,346
Illinois	54,278	85,540	82,554
Indiana	18,560	29,649	29,303
Iowa	7,953	13,543	13,094
Kansas	7,202	11,373	12,628
Kentucky	7,078	12,025	11,564
Louisiana	4,242	7,405	8,372
Maine	404	529	526
Maryland	12,967	19,141	18,521
Massachusetts	20,986	26,240	26,072
Michigan	42,465	68,402	64,293
Minnesota	15,010	23,783	23,468
Mississippi	3,058	4,909	5,799
Missouri	15,779	20,729	19,731
Montana	1,947	2,604	3,296
Nebraska	4,219	6,971	7,214
Nevada	3,384	4,287	7,046
New Hampshire	1,197	1,665	1,691
New Jersey	41,241	50,550	47,059
New Mexico	3,422	5,014	6,249
New York	74,728	91,104	89,003
North Carolina	7,387	17,363	15,464
North Dakota	1,277	2,055	2,006
Ohio	47,720	61,207	58,799
Oklahoma	6,954	12,791	13,212
Oregon	3,543	4,187	6,251
Pennsylvania	37,960	51,850	48,396
Rhode Island	3,296	4,154	4,211
South Carolina	3,183	7,065	6,930
South Dakota	1,358	2,162	2,357
Tennessee	9,120	18,019	16,601
Texas	34,512	36,889	53,619
Utah	5,112	6,449	10,176
Vermont	610	760	725
Virginia	13,596	20,861	19,331
Washington	7,229	8,084	11,788
West Virginia	4,563	5,640	5,121
Wisconsin	16,213	27,502	25,705
Wyoming	1,177	1,457	1,966
Total	632,699	901,656	937,215

^R Revised data.

^{NA} Not available.

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

Source: 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, 2015-2017
(million cubic feet)

State	2017			2016		
	January	Total	December	November	October	September
Alabama	3,049	R23,711	R3,336	2,290	1,515	R1,036
Alaska	2,540	15,948	2,277	1,985	1,403	864
Arizona	4,015	30,725	3,630	2,643	1,985	1,792
Arkansas	NA	45,267	6,208	4,004	3,056	2,639
California	29,678	235,267	28,663	22,150	17,177	16,573
Colorado	9,526	54,176	9,058	5,136	2,751	1,815
Connecticut	7,643	51,828	7,325	R4,997	R3,279	R2,543
Delaware	1,877	12,832	1,939	1,309	898	620
District of Columbia	1,875	15,410	2,129	1,536	875	657
Florida	6,113	R61,039	R5,757	R5,137	R4,604	R4,452
Georgia	7,290	51,896	7,729	4,656	2,608	2,113
Hawaii	185	1,926	170	165	162	171
Idaho	3,722	17,316	3,221	1,632	1,245	798
Illinois	35,362	209,624	34,525	17,156	12,531	8,174
Indiana	12,716	75,028	13,461	6,439	4,377	2,748
Iowa	8,099	48,628	8,277	4,136	2,937	1,790
Kansas	5,302	NA	5,369	2,432	1,786	1,402
Kentucky	5,429	34,104	6,038	3,045	1,720	1,187
Louisiana	3,437	30,340	3,542	2,572	2,192	1,964
Maine	1,334	NA	1,305	776	526	NA
Maryland	9,819	69,765	9,973	6,787	4,106	3,179
Massachusetts	14,517	99,142	14,636	9,770	6,940	4,187
Michigan	26,560	161,569	25,089	13,434	8,386	5,464
Minnesota	17,100	92,894	14,977	8,568	5,445	3,077
Mississippi	2,331	R18,341	2,400	R1,632	R1,111	1,001
Missouri	10,356	59,332	10,528	5,766	3,055	2,096
Montana	4,122	21,711	4,021	2,279	1,585	951
Nebraska	4,856	26,475	4,802	2,296	1,236	937
Nevada	4,488	30,730	3,952	2,606	2,126	1,813
New Hampshire	1,517	8,766	1,530	918	376	241
New Jersey	NA	157,393	24,251	12,040	8,115	7,542
New Mexico	3,939	25,745	4,108	3,440	1,583	1,208
New York	42,331	310,064	40,704	27,805	21,085	15,423
North Carolina	7,530	56,592	7,565	5,369	3,403	2,826
North Dakota	2,339	12,023	2,387	1,051	810	363
Ohio	25,158	152,943	24,229	14,644	8,588	4,917
Oklahoma	7,215	38,626	6,979	3,002	1,991	1,684
Oregon	6,136	27,828	5,193	2,577	1,998	1,197
Pennsylvania	23,360	148,756	23,834	14,846	8,847	5,067
Rhode Island	1,887	10,869	1,864	1,031	578	236
South Carolina	2,810	R24,191	2,895	2,470	1,619	1,309
South Dakota	1,975	10,510	1,982	970	594	351
Tennessee	7,329	52,082	8,391	4,929	2,663	2,141
Texas	NA	NA	R20,140	R13,071	R10,754	R10,095
Utah	7,579	38,760	6,977	4,188	1,955	1,347
Vermont	822	NA	834	567	489	348
Virginia	NA	67,071	8,057	7,385	4,444	2,936
Washington	9,440	51,139	8,615	4,767	3,790	2,494
West Virginia	2,950	22,390	3,109	2,051	1,336	994
Wisconsin	15,292	87,802	14,479	7,348	4,834	3,110
Wyoming	2,431	R12,641	R2,136	R1,185	R801	R522
Total	479,269	R3,124,931	R464,594	R282,990	R192,270	R142,697

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2015-2017

(million cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	1,053	R1,015	R1,180	1,244	1,497	1,825
Alaska	642	566	664	825	1,195	1,664
Arizona	1,759	1,771	1,910	2,165	2,460	2,770
Arkansas	2,571	2,433	2,529	2,837	3,099	4,174
California	17,531	15,553	15,889	16,362	17,097	20,403
Colorado	1,503	1,647	1,838	3,121	4,598	6,179
Connecticut	2,541	2,521	R2,175	R2,917	3,862	R5,272
Delaware	588	540	535	695	934	1,113
District of Columbia	681	670	623	854	1,190	1,264
Florida	R4,189	R4,538	R4,450	R4,774	R5,164	R5,543
Georgia	2,083	2,045	2,078	2,465	3,237	4,427
Hawaii	163	155	154	151	162	157
Idaho	701	657	653	851	993	1,706
Illinois	7,896	7,882	7,251	10,496	15,803	21,382
Indiana	2,515	2,116	2,215	3,327	5,228	6,579
Iowa	1,806	1,738	1,586	2,110	3,493	4,879
Kansas	1,429	1,371	1,476	NA	1,970	2,653
Kentucky	1,137	1,069	1,023	1,545	1,827	3,238
Louisiana	2,071	1,882	1,909	2,219	2,247	2,364
Maine	279	294	324	493	789	1,048
Maryland	2,896	2,823	3,188	4,081	5,411	6,392
Massachusetts	3,980	3,715	3,621	5,404	8,350	10,080
Michigan	5,284	5,093	5,515	8,703	14,623	18,781
Minnesota	2,870	2,742	2,736	4,040	7,146	10,266
Mississippi	985	930	1,173	1,207	1,032	1,453
Missouri	2,248	2,159	2,066	2,735	3,314	5,327
Montana	756	745	778	1,158	1,488	2,272
Nebraska	913	942	1,029	1,243	1,783	2,518
Nevada	1,701	1,748	1,760	2,155	2,390	2,766
New Hampshire	209	206	255	398	738	991
New Jersey	8,440	8,390	8,184	9,176	11,773	15,436
New Mexico	1,086	1,041	1,152	1,288	1,607	2,265
New York	16,633	16,016	15,142	17,114	23,655	29,003
North Carolina	2,826	2,617	2,615	2,915	3,791	4,335
North Dakota	305	308	302	430	1,044	1,211
Ohio	4,931	4,220	4,182	6,674	12,115	14,966
Oklahoma	1,646	1,495	1,565	2,092	2,215	3,442
Oregon	980	1,026	1,093	1,438	1,839	2,973
Pennsylvania	4,814	4,553	4,967	7,146	11,041	13,699
Rhode Island	169	176	237	555	988	1,261
South Carolina	1,325	1,157	1,279	1,422	R1,885	1,881
South Dakota	300	301	304	485	826	1,061
Tennessee	2,052	2,035	2,032	2,652	2,983	4,369
Texas	10,092	10,294	NA	10,611	13,184	14,740
Utah	1,028	1,235	1,075	2,010	2,773	3,970
Vermont	350	345	306	286	NA	516
Virginia	2,664	2,646	3,132	3,556	5,145	6,289
Washington	2,176	2,268	2,441	2,828	3,094	5,496
West Virginia	1,001	1,059	984	1,208	1,633	2,302
Wisconsin	3,029	2,838	3,132	4,532	7,133	9,172
Wyoming	R442	R413	R406	R810	R1,043	R1,403
Total	R141,272	R136,000	R138,513	R171,551	R233,414	R299,278

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2015-2017

(million cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	3,106	4,613	24,915	2,398	2,348	1,534
Alaska	1,752	2,110	18,472	2,469	2,028	1,393
Arizona	3,398	4,443	30,528	4,130	3,014	1,918
Arkansas	5,497	6,220	47,651	4,918	4,033	3,163
California	21,311	26,558	235,787	29,483	26,091	16,134
Colorado	7,263	9,269	54,004	9,189	6,639	2,795
Connecticut	7,021	7,376	52,453	4,915	4,024	3,080
Delaware	1,658	2,003	11,731	1,234	1,117	852
District of Columbia	2,405	2,528	17,113	1,611	1,563	1,230
Florida	6,001	6,429	62,754	5,584	5,144	4,936
Georgia	7,996	10,458	53,712	5,192	4,701	3,163
Hawaii	155	159	1,908	167	148	152
Idaho	2,077	2,782	16,708	2,812	2,140	1,102
Illinois	30,584	35,945	215,218	24,423	18,019	12,469
Indiana	11,543	14,481	77,526	8,323	6,374	4,687
Iowa	7,054	8,822	49,269	6,378	4,268	3,109
Kansas	4,212	5,732	30,959	4,058	2,487	2,132
Kentucky	5,517	6,758	35,435	3,735	3,061	1,788
Louisiana	2,921	4,457	29,805	2,872	2,697	2,213
Maine	1,199	1,367	10,072	1,006	816	597
Maryland	9,509	11,422	70,199	6,638	5,903	4,720
Massachusetts	13,214	15,244	105,397	10,010	9,181	7,315
Michigan	24,800	26,396	168,360	17,807	13,062	9,169
Minnesota	14,790	16,235	93,004	12,435	8,304	5,158
Mississippi	2,237	3,179	19,697	1,800	1,741	1,302
Missouri	8,887	11,150	61,388	7,357	5,298	3,331
Montana	2,434	3,244	19,364	3,082	2,486	1,149
Nebraska	3,775	5,001	29,464	4,117	2,718	1,616
Nevada	3,365	4,348	29,873	4,045	3,114	1,977
New Hampshire	1,320	1,584	9,630	1,050	850	389
New Jersey	20,511	23,535	163,223	13,604	11,164	8,406
New Mexico	2,902	4,065	25,038	4,115	3,137	1,608
New York	40,326	47,157	311,203	28,986	24,516	19,000
North Carolina	8,013	10,316	55,114	4,403	5,334	4,116
North Dakota	1,659	2,153	12,317	1,799	1,208	664
Ohio	23,559	29,917	166,602	16,202	12,682	9,078
Oklahoma	5,075	7,439	41,977	5,631	3,757	2,030
Oregon	3,194	4,319	25,797	4,191	3,351	1,510
Pennsylvania	22,320	27,622	152,079	14,838	12,872	9,859
Rhode Island	1,767	2,006	12,016	1,132	1,030	638
South Carolina	3,039	3,910	23,494	1,873	2,099	1,795
South Dakota	1,405	1,931	10,434	1,546	1,114	565
Tennessee	7,608	10,226	53,041	5,191	4,634	3,032
Texas	19,038	23,837	177,594	19,098	13,847	10,634
Utah	5,319	6,883	35,772	6,958	4,785	1,491
Vermont	714	899	5,918	583	554	520
Virginia	9,234	11,584	69,107	6,201	6,155	4,889
Washington	5,807	7,362	49,967	7,685	6,044	3,220
West Virginia	3,018	3,696	22,598	2,014	1,928	1,551
Wisconsin	13,078	15,118	90,175	10,348	7,772	4,983
Wyoming	1,539	1,941	12,937	2,395	1,637	604
Total	416,126	506,228	3,198,797	352,031	282,990	194,764

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2015-2017

(million cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	1,190	1,136	1,106	1,103	1,405	1,432
Alaska	1,202	717	662	574	1,147	1,548
Arizona	1,708	1,650	1,758	1,878	2,203	2,422
Arkansas	2,654	2,517	2,388	2,405	2,654	3,183
California	15,078	16,351	15,782	16,147	19,132	18,079
Colorado	1,647	1,409	1,522	1,954	3,510	3,872
Connecticut	2,515	2,451	2,321	2,239	2,611	4,444
Delaware	453	429	393	429	422	770
District of Columbia	798	770	712	821	725	1,010
Florida	4,382	4,589	4,671	4,863	4,762	5,286
Georgia	2,420	2,275	2,161	2,093	2,624	3,296
Hawaii	153	156	159	154	151	168
Idaho	718	603	627	685	850	1,235
Illinois	7,827	7,840	7,358	7,293	9,179	15,102
Indiana	2,765	2,171	2,356	2,308	2,725	5,093
Iowa	1,752	1,499	1,600	1,807	2,113	3,165
Kansas	1,610	1,796	1,428	1,076	1,439	1,588
Kentucky	1,208	1,205	1,192	1,125	1,202	1,739
Louisiana	2,141	1,839	1,745	1,840	2,037	2,001
Maine	435	428	417	407	389	833
Maryland	2,962	2,986	2,943	2,840	2,956	4,954
Massachusetts	3,981	3,877	3,892	4,042	4,417	7,679
Michigan	5,182	5,372	5,034	5,423	7,299	13,744
Minnesota	2,760	2,884	2,516	2,609	3,970	6,599
Mississippi	1,167	1,045	960	1,013	1,066	1,129
Missouri	2,112	2,161	1,881	1,840	2,368	4,330
Montana	682	577	590	579	981	1,394
Nebraska	964	1,044	1,264	1,281	1,460	1,957
Nevada	1,674	1,722	1,610	1,839	2,119	2,411
New Hampshire	240	233	229	274	308	673
New Jersey	7,123	7,173	7,475	6,556	7,304	15,286
New Mexico	1,053	1,068	980	1,240	1,356	1,488
New York	14,007	14,826	14,458	13,026	15,674	22,349
North Carolina	2,889	2,452	2,487	2,867	2,488	3,421
North Dakota	320	310	307	313	580	833
Ohio	4,465	4,716	4,679	5,217	6,476	12,865
Oklahoma	1,599	1,565	1,530	1,541	1,940	2,349
Oregon	1,184	923	942	981	1,551	2,209
Pennsylvania	5,196	4,641	4,390	5,154	5,766	10,552
Rhode Island	247	253	262	309	385	872
South Carolina	1,356	1,365	1,301	1,285	1,500	1,568
South Dakota	312	310	305	323	498	672
Tennessee	2,225	2,057	2,039	2,141	2,453	2,928
Texas	9,727	9,512	10,752	10,723	10,314	12,752
Utah	1,003	1,170	1,181	1,387	2,168	3,027
Vermont	334	316	340	323	204	370
Virginia	3,592	2,646	2,716	2,644	2,813	4,015
Washington	2,521	1,995	2,068	2,407	2,942	4,172
West Virginia	1,110	853	984	798	1,107	1,707
Wisconsin	2,866	2,963	2,781	2,840	3,791	6,601
Wyoming	503	298	422	461	919	986
Total	138,010	135,142	133,678	135,477	160,452	232,156

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2015-2017
(million cubic feet) – continued

State	2015		
	March	February	January
Alabama	2,127	4,665	4,471
Alaska	2,268	1,992	2,473
Arizona	2,785	3,082	3,980
Arkansas	5,328	7,068	7,338
California	18,893	19,598	25,020
Colorado	5,458	7,069	8,940
Connecticut	7,321	8,272	8,259
Delaware	1,504	2,097	2,031
District of Columbia	2,184	2,648	3,043
Florida	5,629	6,332	6,575
Georgia	5,476	10,128	10,181
Hawaii	165	157	179
Idaho	1,477	1,770	2,687
Illinois	27,346	39,507	38,856
Indiana	9,951	15,388	15,385
Iowa	5,812	9,123	8,643
Kansas	3,180	4,868	5,296
Kentucky	4,345	7,562	7,275
Louisiana	2,514	3,680	4,226
Maine	1,405	1,665	1,676
Maryland	9,783	11,814	11,699
Massachusetts	14,537	18,252	18,214
Michigan	23,965	31,717	30,587
Minnesota	11,399	17,900	16,471
Mississippi	2,144	3,003	3,327
Missouri	8,620	11,594	10,496
Montana	2,045	2,568	3,229
Nebraska	3,127	4,904	5,012
Nevada	2,642	2,902	3,817
New Hampshire	1,455	1,955	1,975
New Jersey	22,572	28,279	28,280
New Mexico	2,093	3,063	3,836
New York	41,823	50,725	51,813
North Carolina	5,408	10,110	9,139
North Dakota	1,491	2,229	2,264
Ohio	24,200	33,326	32,696
Oklahoma	4,767	7,445	7,823
Oregon	2,391	2,791	3,774
Pennsylvania	21,189	29,766	27,856
Rhode Island	1,949	2,477	2,463
South Carolina	2,129	3,650	3,572
South Dakota	1,103	1,771	1,916
Tennessee	5,637	10,805	9,900
Texas	20,618	21,963	27,654
Utah	3,004	3,979	5,620
Vermont	675	810	889
Virginia	8,607	12,727	12,102
Washington	4,779	5,305	6,829
West Virginia	3,122	3,798	3,624
Wisconsin	11,827	16,777	16,627
Wyoming	1,196	1,603	1,913
Total	385,467	516,680	531,951

^R Revised data.

^{NA} Not available.

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

Source: 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, 2015-2017
(million cubic feet)

State	2017			2016		
	January	Total	December	November	October	September
Alabama	17,491	189,066	16,700	15,247	14,849	13,993
Alaska	286	4,268	466	493	538	436
Arizona	2,078	19,762	1,914	1,647	1,664	1,576
Arkansas	8,059	81,066	7,842	6,981	6,497	6,313
California	63,988	772,366	66,309	62,744	63,617	68,647
Colorado	9,951	81,068	9,511	7,271	6,154	5,217
Connecticut	2,640	24,743	2,724	2,256	1,779	1,695
Delaware	2,888	NA	2,777	NA	2,742	2,659
District of Columbia	0	0	0	0	0	0
Florida	9,796	103,528	9,128	8,608	8,357	8,142
Georgia	13,668	152,916	13,563	12,720	12,805	11,364
Hawaii	48	542	42	41	43	44
Idaho ^a	3,901	34,782	3,790	3,173	3,119	2,661
Illinois	26,907	NA	27,278	22,336	20,481	18,672
Indiana	36,448	370,957	37,397	28,273	24,643	27,073
Iowa	19,614	187,987	20,033	18,342	16,267	14,106
Kansas	11,346	R114,622	11,779	9,198	8,459	7,747
Kentucky	11,485	115,334	11,102	10,040	9,012	8,211
Louisiana	NA	1,039,701	93,159	87,364	84,902	83,892
Maine	1,709	NA	1,460	1,350	1,634	1,522
Maryland	1,497	NA	NA	1,124	1,256	978
Massachusetts	5,531	44,896	5,115	4,138	3,271	2,450
Michigan	19,166	173,140	18,529	14,628	13,284	12,206
Minnesota	16,372	NA	15,909	14,090	11,888	NA
Mississippi	11,231	116,053	10,723	9,927	8,328	8,686
Missouri	NA	NA	6,066	5,017	NA	4,699
Montana	1,920	NA	NA	2,209	NA	NA
Nebraska	7,728	87,938	8,105	8,026	7,797	7,380
Nevada	1,820	NA	NA	1,523	1,635	NA
New Hampshire	763	NA	728	685	616	586
New Jersey	5,436	63,578	5,587	4,674	5,614	5,377
New Mexico	1,547	16,165	1,529	1,398	1,325	1,237
New York	8,576	81,684	8,814	7,179	6,491	5,650
North Carolina	9,650	105,636	9,641	8,950	8,636	7,710
North Dakota	2,973	31,340	2,625	3,068	3,185	2,853
Ohio	29,288	277,927	27,932	23,646	21,566	19,514
Oklahoma	17,966	192,349	17,580	15,453	14,985	13,805
Oregon	5,863	56,596	5,560	4,706	4,846	4,368
Pennsylvania	20,916	R209,336	R20,384	R19,228	17,129	14,675
Rhode Island	806	8,474	734	677	694	742
South Carolina	8,036	R87,105	7,864	7,759	7,074	6,780
South Dakota	4,244	44,559	4,107	3,952	3,564	3,535
Tennessee	12,512	122,540	12,126	10,505	9,963	9,315
Texas	NA	NA	156,777	142,307	139,331	139,062
Utah	3,779	38,568	3,460	3,201	3,130	2,995
Vermont	222	2,172	217	199	185	153
Virginia	7,740	NA	7,677	7,555	NA	7,536
Washington	8,145	79,274	7,906	6,688	7,137	6,413
West Virginia	3,403	33,710	3,519	3,406	3,159	2,847
Wisconsin	16,639	143,209	15,836	12,337	11,267	9,824
Wyoming	4,809	NA	4,868	4,850	4,478	3,975
Total	727,027	R7,723,742	R732,286	R653,763	622,366	603,025

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2015-2017

(million cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	14,623	14,695	15,147	16,613	15,753	16,568
Alaska	261	307	363	261	183	237
Arizona	1,384	1,335	1,542	1,591	1,577	1,709
Arkansas	6,469	6,029	6,028	6,420	6,512	6,968
California	72,567	66,296	62,499	63,054	61,348	62,467
Colorado	5,298	5,168	5,034	6,193	6,680	7,599
Connecticut	1,766	1,718	1,633	1,747	1,958	2,083
Delaware	2,573	2,690	2,335	2,643	2,464	2,666
District of Columbia	0	0	0	0	0	0
Florida	8,409	8,293	7,650	8,617	9,093	9,148
Georgia	11,760	11,890	11,941	12,721	12,435	13,481
Hawaii	56	54	41	47	42	41
Idaho ^a	2,253	2,525	2,137	2,463	2,494	3,186
Illinois	17,648	NA	NA	18,796	20,311	23,292
Indiana	27,950	29,030	29,040	31,227	31,464	33,813
Iowa	14,383	14,264	14,033	14,229	13,908	15,725
Kansas	10,904	10,250	8,651	8,554	8,670	9,581
Kentucky	8,590	8,181	8,249	9,181	9,458	10,363
Louisiana	86,726	87,948	84,591	87,285	85,108	87,558
Maine	1,530	1,511	NA	NA	NA	NA
Maryland	1,183	1,196	1,042	1,179	1,239	1,519
Massachusetts	2,376	2,431	2,790	3,111	4,072	4,478
Michigan	11,525	10,796	11,431	12,111	14,685	16,587
Minnesota	11,810	12,285	11,627	11,634	NA	17,566
Mississippi	9,565	9,583	9,833	9,766	9,641	9,093
Missouri	4,248	4,413	4,574	5,146	5,272	6,041
Montana	NA	NA	NA	1,723	NA	NA
Nebraska	8,856	8,163	6,885	6,557	6,363	6,496
Nevada	NA	NA	1,433	1,483	1,518	1,562
New Hampshire	551	558	NA	NA	NA	NA
New Jersey	5,733	6,005	5,472	4,533	5,007	4,351
New Mexico	1,214	1,257	1,225	1,302	1,234	1,443
New York	5,897	5,510	5,441	5,215	7,067	7,901
North Carolina	8,381	7,751	7,678	8,450	8,646	9,211
North Dakota	2,040	2,197	2,773	2,800	2,094	2,668
Ohio	19,074	19,309	19,851	21,570	23,038	25,038
Oklahoma	15,640	15,809	15,702	17,335	16,366	16,456
Oregon	4,279	4,198	4,216	4,518	4,545	4,996
Pennsylvania	16,036	14,622	14,377	15,523	17,350	18,968
Rhode Island	662	605	652	691	728	760
South Carolina	6,820	6,691	6,927	7,360	7,376	7,449
South Dakota	3,660	3,400	3,385	3,479	3,644	3,785
Tennessee	9,598	9,264	9,467	9,340	9,521	10,126
Texas	NA	NA	130,406	130,670	128,883	139,966
Utah	2,735	2,822	3,036	3,073	3,569	3,376
Vermont	140	140	151	167	192	204
Virginia	7,461	7,398	7,196	7,382	7,181	7,482
Washington	5,965	6,014	5,732	5,760	6,305	6,605
West Virginia	2,706	2,832	2,530	2,205	2,306	2,677
Wisconsin	9,963	9,224	9,691	10,100	11,833	12,944
Wyoming	4,136	4,064	4,262	4,595	NA	NA
Total	626,299	616,268	590,655	612,576	620,058	665,370

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2015-2017

(million cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	16,396	18,481	186,954	15,730	15,157	15,350
Alaska	243	479	4,864	422	381	369
Arizona	1,793	2,031	20,402	2,029	1,882	1,604
Arkansas	7,081	7,925	85,287	7,301	7,201	6,903
California	58,716	64,102	777,104	66,909	63,511	64,415
Colorado	7,760	9,184	78,694	8,998	7,697	5,866
Connecticut	2,566	2,817	25,612	2,194	2,010	1,883
Delaware	2,517	2,821	33,126	3,040	2,682	2,590
District of Columbia	0	0	0	0	0	0
Florida	8,667	9,416	96,124	8,855	7,706	7,928
Georgia	13,859	14,377	157,936	13,423	13,324	13,742
Hawaii	44	47	442	36	36	43
Idaho ^a	3,335	3,647	31,664	3,399	3,311	3,028
Illinois	25,696	27,930	265,900	24,502	23,724	20,369
Indiana	34,110	36,936	372,537	33,407	29,891	28,801
Iowa	15,766	16,930	178,772	15,802	15,136	15,213
Kansas	9,901	10,930	111,016	11,367	9,144	8,368
Kentucky	10,922	12,025	115,956	9,951	9,766	8,847
Louisiana	81,450	89,718	948,918	85,177	81,583	79,536
Maine	NA	NA	20,972	1,526	1,510	1,670
Maryland	1,428	1,322	14,765	1,312	1,277	1,252
Massachusetts	5,187	5,478	44,554	4,043	4,042	3,051
Michigan	18,218	19,140	171,196	15,555	14,100	13,319
Minnesota	NA	NA	157,400	15,545	13,674	13,346
Mississippi	10,101	10,807	121,866	10,513	10,323	11,293
Missouri	7,176	6,914	65,691	6,158	5,560	4,912
Montana	1,918	2,136	21,152	2,102	1,939	1,812
Nebraska	6,311	6,998	85,604	7,161	7,848	7,320
Nevada	1,448	1,609	17,724	1,467	1,507	1,463
New Hampshire	NA	826	8,386	743	709	619
New Jersey	4,929	6,294	55,368	4,211	4,575	4,156
New Mexico	1,454	1,547	17,937	1,571	1,613	1,476
New York	8,332	8,187	83,055	6,684	6,657	6,256
North Carolina	10,069	10,515	105,103	9,050	8,912	9,045
North Dakota	2,278	2,759	31,660	2,377	2,951	2,948
Ohio	27,438	29,952	276,004	23,373	22,474	20,128
Oklahoma	15,430	17,788	184,627	17,940	17,208	15,900
Oregon	4,859	5,506	54,931	5,261	4,834	4,377
Pennsylvania	20,231	20,816	241,287	20,844	19,346	19,056
Rhode Island	799	730	8,624	742	669	675
South Carolina	7,198	7,808	84,405	7,892	7,360	7,255
South Dakota	3,932	4,116	44,094	3,872	3,815	3,422
Tennessee	11,145	12,169	114,673	9,842	9,275	9,189
Texas	133,542	144,468	1,599,279	144,705	137,006	131,492
Utah	3,600	3,571	37,189	3,568	3,083	2,933
Vermont	204	220	2,040	188	178	188
Virginia	7,185	8,633	86,817	7,186	7,338	7,260
Washington	6,792	7,958	76,600	7,527	6,991	6,754
West Virginia	2,718	2,804	25,901	2,430	2,061	1,893
Wisconsin	14,219	15,970	136,709	12,901	12,329	10,777
Wyoming	4,438	4,671	47,667	4,626	4,196	3,906
Total	662,483	718,594	7,534,589	675,456	639,499	613,999

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2015-2017

(million cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	14,954	15,369	15,841	14,675	15,522	14,200
Alaska	345	402	390	376	397	395
Arizona	1,446	1,487	1,498	1,512	1,644	1,659
Arkansas	6,342	6,455	6,434	6,380	6,771	7,029
California	65,899	71,454	69,807	62,545	63,541	63,109
Colorado	4,823	5,029	5,033	4,904	6,015	6,100
Connecticut	1,712	1,804	1,736	1,733	1,816	2,082
Delaware	2,448	2,636	2,668	2,560	2,819	3,037
District of Columbia	0	0	0	0	0	0
Florida	7,320	7,298	7,605	7,572	8,064	7,994
Georgia	12,274	12,720	13,006	12,710	13,089	12,115
Hawaii	37	41	38	44	31	32
Idaho ^a	2,561	2,412	2,091	2,359	2,598	2,322
Illinois	18,722	18,717	19,614	18,206	19,770	20,616
Indiana	26,669	28,121	28,246	27,518	29,593	29,054
Iowa	13,428	13,991	13,797	13,627	14,433	13,906
Kansas	7,999	9,938	10,113	8,377	7,763	8,285
Kentucky	8,471	8,798	8,438	8,571	8,729	9,650
Louisiana	77,834	80,573	77,087	75,647	79,939	76,095
Maine	1,590	1,555	1,591	1,629	1,718	1,953
Maryland	1,140	927	1,123	1,168	1,141	1,135
Massachusetts	2,574	2,215	2,265	2,169	2,808	4,049
Michigan	11,478	11,210	11,139	10,687	11,570	14,382
Minnesota	11,362	10,324	10,333	10,718	11,132	13,355
Mississippi	9,900	9,648	9,720	9,896	9,645	9,620
Missouri	4,551	4,399	4,742	4,629	4,657	5,116
Montana	1,654	1,901	1,391	1,500	1,613	1,612
Nebraska	6,508	7,106	7,738	6,459	6,797	6,626
Nevada	1,470	1,463	1,425	1,386	1,438	1,558
New Hampshire	605	566	606	611	598	764
New Jersey	4,079	4,039	4,218	4,134	4,154	4,589
New Mexico	1,345	1,434	1,379	1,230	1,550	1,597
New York	5,594	5,803	5,278	5,363	5,775	7,332
North Carolina	7,975	8,155	7,855	7,794	8,132	8,546
North Dakota	2,706	2,519	1,999	2,452	2,835	2,510
Ohio	18,521	19,080	19,463	19,413	20,431	22,803
Oklahoma	14,979	13,433	12,256	12,777	15,918	15,178
Oregon	4,087	4,163	4,014	4,194	4,411	4,784
Pennsylvania	17,342	17,482	18,103	18,132	19,273	20,078
Rhode Island	686	673	650	666	701	848
South Carolina	6,632	6,762	6,658	6,661	6,852	7,080
South Dakota	3,438	3,534	3,499	3,571	3,524	3,706
Tennessee	8,715	8,767	8,573	8,800	8,581	9,194
Texas	127,538	135,406	133,141	129,478	134,316	129,221
Utah	2,724	2,755	2,744	2,994	3,073	3,092
Vermont	150	153	156	137	134	158
Virginia	6,752	7,360	7,286	7,320	7,646	7,711
Washington	6,029	5,638	5,375	5,703	6,000	6,193
West Virginia	1,717	1,877	1,787	1,948	1,905	2,282
Wisconsin	9,133	9,153	8,853	8,839	9,392	10,427
Wyoming	3,644	3,765	3,826	3,817	3,673	3,919
Total	579,903	600,508	592,628	575,588	603,928	609,100

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2015-2017
(million cubic feet) – continued

State	2015		
	March	February	January
Alabama	15,980	16,318	17,857
Alaska	439	450	497
Arizona	1,831	1,695	2,115
Arkansas	7,921	8,062	8,486
California	62,086	57,365	66,464
Colorado	7,182	8,094	8,953
Connecticut	2,936	2,728	2,978
Delaware	3,171	2,494	2,980
District of Columbia	0	0	0
Florida	8,562	8,416	8,804
Georgia	13,537	13,192	14,803
Hawaii	37	28	38
Idaho ^a	2,419	2,558	2,607
Illinois	24,665	27,785	29,210
Indiana	36,014	37,319	37,904
Iowa	15,493	16,578	17,368
Kansas	8,435	10,152	11,073
Kentucky	11,399	11,377	11,960
Louisiana	76,843	74,907	83,698
Maine	2,186	1,843	2,201
Maryland	1,351	1,353	1,584
Massachusetts	5,321	6,187	5,830
Michigan	17,712	19,139	20,906
Minnesota	15,419	15,370	16,822
Mississippi	9,986	10,330	10,994
Missouri	6,733	7,055	7,179
Montana	1,729	1,796	2,105
Nebraska	6,395	7,715	7,930
Nevada	1,546	1,376	1,625
New Hampshire	930	812	823
New Jersey	5,316	5,557	6,341
New Mexico	1,643	1,523	1,575
New York	9,508	9,426	9,378
North Carolina	9,856	9,375	10,411
North Dakota	2,940	2,687	2,736
Ohio	28,217	30,802	31,300
Oklahoma	15,925	15,213	17,901
Oregon	4,824	4,648	5,335
Pennsylvania	24,188	23,656	23,787
Rhode Island	760	826	728
South Carolina	7,602	6,083	7,567
South Dakota	3,722	3,967	4,025
Tennessee	10,716	11,509	11,512
Texas	132,504	124,812	139,660
Utah	3,152	3,483	3,586
Vermont	207	176	217
Virginia	6,605	6,805	7,550
Washington	6,880	6,255	7,253
West Virginia	2,716	2,713	2,572
Wisconsin	13,617	15,341	15,947
Wyoming	4,092	3,733	4,470
Total	663,251	661,083	719,645

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

^R Revised data.

^{NA} Not available.

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

Source: 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, 2015-2017
(million cubic feet)

State	2017			2016		
	January	Total	December	November	October	September
Alabama	25,487	415,162	30,859	30,500	31,962	40,587
Alaska	2,044	22,236	1,753	1,763	1,732	1,952
Arizona	9,459	255,593	9,577	12,145	20,806	28,593
Arkansas	3,722	136,368	7,172	10,868	9,109	9,207
California	51,868	671,152	52,512	51,615	62,951	64,501
Colorado	8,269	95,419	7,245	5,669	5,848	6,793
Connecticut	10,373	122,240	9,470	9,797	9,514	9,817
Delaware	1,919	53,926	2,262	3,572	5,346	5,237
District of Columbia	--	--	--	--	--	--
Florida	75,627	1,180,649	76,560	76,861	96,936	108,803
Georgia	28,356	379,202	25,859	23,972	26,061	31,785
Hawaii	--	--	--	--	--	--
Idaho	2,410	23,971	1,766	834	1,366	2,671
Illinois	5,811	146,175	8,363	8,308	11,710	12,872
Indiana	11,188	158,414	13,562	13,587	11,299	11,936
Iowa	1,533	20,233	713	575	942	1,249
Kansas	891	20,324	931	1,262	1,356	2,735
Kentucky	2,457	66,907	5,420	4,211	4,730	5,454
Louisiana	15,768	330,642	18,790	19,777	22,889	28,503
Maine	W	22,408	815	1,122	1,770	1,834
Maryland	2,084	49,059	822	570	3,308	5,414
Massachusetts	13,910	160,044	10,717	8,180	9,495	14,211
Michigan	15,208	243,612	15,356	16,947	16,857	17,992
Minnesota	4,956	65,606	2,906	3,268	3,282	3,332
Mississippi	24,077	367,456	27,475	21,372	27,273	36,326
Missouri	2,531	51,139	3,601	2,189	3,153	4,845
Montana	418	7,306	W	W	W	618
Nebraska	W	6,358	196	674	469	291
Nevada	16,181	209,610	15,951	15,667	15,257	17,112
New Hampshire	1,104	33,841	2,200	3,078	2,362	3,909
New Jersey	16,998	327,628	21,684	19,960	27,481	30,078
New Mexico	6,447	82,929	6,174	5,270	7,211	7,250
New York	31,964	477,867	33,326	28,853	32,503	45,082
North Carolina	21,954	293,669	21,708	23,813	18,622	24,204
North Dakota	671	9,347	W	607	691	828
Ohio	14,763	211,732	15,615	15,568	14,289	18,191
Oklahoma	13,770	274,388	16,442	20,889	18,559	25,575
Oregon	11,290	107,069	12,339	7,788	7,767	13,139
Pennsylvania	33,332	500,656	38,553	38,967	39,512	47,277
Rhode Island	3,244	46,974	2,844	2,903	2,968	4,439
South Carolina	7,693	133,130	7,370	13,620	10,992	13,848
South Dakota	552	7,574	272	512	473	556
Tennessee	4,785	87,680	7,931	3,688	6,423	8,879
Texas	88,068	1,538,663	90,872	96,452	111,658	144,557
Utah	4,836	58,008	4,215	3,313	4,019	4,423
Vermont	2	14	2	2	2	3
Virginia	23,193	292,826	20,812	20,785	18,007	27,967
Washington	9,526	85,403	7,455	4,674	5,017	10,717
West Virginia	W	10,311	164	386	1,662	1,150
Wisconsin	6,919	120,764	6,991	6,628	5,218	8,027
Wyoming	114	1,844	W	W	W	W
Total	639,440	9,983,531	668,757	663,538	741,360	914,908

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2015-2017

(million cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	43,505	44,566	39,282	33,335	26,636	30,764
Alaska	2,200	2,044	1,756	1,755	1,645	1,745
Arizona	36,059	36,512	31,063	20,260	18,623	14,134
Arkansas	16,405	16,341	17,250	12,184	10,509	12,760
California	79,709	73,374	63,255	40,618	37,567	37,493
Colorado	10,126	11,675	10,289	7,741	8,614	7,331
Connecticut	12,137	11,476	9,275	10,263	11,348	8,938
Delaware	7,089	7,425	6,001	3,953	4,602	3,856
District of Columbia	--	--	--	--	--	--
Florida	120,587	122,353	114,263	106,961	100,187	90,908
Georgia	41,363	43,098	39,628	33,268	30,528	29,405
Hawaii	--	--	--	--	--	--
Idaho	3,698	2,549	2,006	1,407	628	1,760
Illinois	20,063	23,039	13,253	9,676	9,615	12,110
Indiana	16,077	15,793	13,958	13,693	9,428	13,879
Iowa	3,628	3,162	2,131	2,456	801	1,453
Kansas	2,847	3,163	3,117	1,685	1,104	947
Kentucky	7,597	8,026	6,732	4,992	4,493	6,026
Louisiana	31,968	38,721	33,611	30,795	25,600	27,286
Maine	3,562	3,252	1,770	1,920	1,409	607
Maryland	10,307	9,671	3,730	3,879	3,569	4,203
Massachusetts	21,417	21,351	17,569	15,482	11,546	10,627
Michigan	31,130	26,034	21,500	22,478	23,125	18,916
Minnesota	10,302	8,556	6,111	6,207	5,853	5,173
Mississippi	37,854	39,659	36,139	31,831	22,528	26,509
Missouri	6,815	7,273	6,992	4,019	4,784	2,543
Montana	1,051	885	670	W	W	553
Nebraska	1,119	1,100	1,389	318	463	150
Nevada	21,887	22,567	21,319	17,106	14,939	15,241
New Hampshire	4,582	4,147	2,854	3,009	3,609	749
New Jersey	41,217	39,592	30,423	24,014	23,970	24,419
New Mexico	8,608	9,227	7,704	6,387	6,358	6,092
New York	64,329	59,588	44,619	39,743	33,274	32,185
North Carolina	30,092	29,132	23,889	21,936	23,986	28,153
North Dakota	1,315	1,155	898	688	W	664
Ohio	23,086	22,704	17,398	11,353	16,438	18,110
Oklahoma	29,527	33,632	31,430	22,843	20,250	17,666
Oregon	14,263	10,464	7,950	3,346	3,089	7,255
Pennsylvania	57,598	57,177	47,121	35,691	33,444	36,647
Rhode Island	5,686	5,963	4,761	5,004	2,937	4,496
South Carolina	14,771	15,788	12,229	10,143	6,915	9,925
South Dakota	1,139	1,031	745	605	687	528
Tennessee	10,415	10,109	9,257	6,235	5,147	6,915
Texas	174,935	171,002	151,685	132,544	117,577	119,869
Utah	6,023	6,322	6,069	5,071	5,259	4,411
Vermont	3	1	--	2	*	1
Virginia	38,099	36,703	29,100	21,704	13,489	20,289
Washington	12,266	9,735	6,145	5,028	2,787	4,468
West Virginia	686	680	1,309	1,666	1,100	1,074
Wisconsin	15,103	14,065	11,524	9,688	9,693	13,267
Wyoming	W	W	W	W	W	W
Total	1,154,593	1,142,161	971,342	805,702	721,267	742,605

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2015-2017

(million cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	29,216	33,949	397,961	33,249	31,034	31,534
Alaska	1,810	2,080	27,722	2,336	2,164	2,096
Arizona	12,550	15,271	249,477	17,515	17,672	24,561
Arkansas	5,899	8,663	108,755	6,754	5,434	4,130
California	47,121	60,436	816,787	63,111	59,484	84,917
Colorado	6,294	7,795	92,757	8,346	9,658	8,172
Connecticut	9,698	10,507	119,305	11,119	9,814	10,291
Delaware	2,385	2,200	44,725	2,190	2,330	3,068
District of Columbia	--	--	--	--	--	--
Florida	79,470	86,759	1,160,140	89,587	91,782	100,028
Georgia	25,637	28,597	354,090	25,887	27,527	29,598
Hawaii	--	--	--	--	--	--
Idaho	2,412	2,873	27,790	2,840	2,240	2,500
Illinois	8,898	8,269	83,570	7,753	7,008	6,560
Indiana	11,811	13,392	127,365	13,305	11,439	8,711
Iowa	1,485	1,639	17,518	1,623	530	918
Kansas	510	667	16,614	804	W	W
Kentucky	3,711	5,514	52,015	3,312	5,312	6,074
Louisiana	24,777	27,924	342,742	31,279	29,353	29,252
Maine	1,896	2,451	17,447	1,427	1,813	2,483
Maryland	2,295	1,292	39,632	2,457	3,188	2,959
Massachusetts	9,811	9,641	156,492	9,618	8,375	13,391
Michigan	16,885	16,392	174,770	16,664	14,519	15,441
Minnesota	5,230	5,386	54,054	5,725	3,113	3,400
Mississippi	29,688	30,803	331,496	25,574	25,741	23,923
Missouri	2,547	2,379	40,109	2,899	2,409	1,850
Montana	578	636	7,847	777	666	714
Nebraska	101	87	4,634	137	160	W
Nevada	14,624	17,941	207,145	18,135	15,282	18,088
New Hampshire	1,145	2,196	42,673	2,706	3,795	3,375
New Jersey	21,012	23,777	290,843	23,354	24,504	24,677
New Mexico	5,806	6,840	77,947	6,933	5,581	6,330
New York	30,295	34,071	475,658	31,355	33,652	39,937
North Carolina	24,825	23,308	268,925	22,474	22,200	19,195
North Dakota	726	729	3,671	W	W	W
Ohio	19,207	19,773	210,460	17,199	15,918	13,838
Oklahoma	16,020	21,555	254,706	23,024	20,482	16,289
Oregon	9,330	10,340	113,988	11,609	11,382	10,746
Pennsylvania	33,433	35,235	439,248	35,621	36,071	38,145
Rhode Island	2,530	2,442	50,110	3,081	4,334	3,864
South Carolina	7,877	9,654	135,239	11,601	13,955	12,777
South Dakota	570	455	7,083	656	521	396
Tennessee	6,325	6,355	69,830	6,156	5,458	4,574
Texas	105,021	122,491	1,646,330	123,103	110,207	131,222
Utah	4,107	4,778	55,797	5,002	4,575	4,387
Vermont	--	*	19	1	1	*
Virginia	22,753	23,118	243,116	22,839	16,558	11,752
Washington	7,351	9,761	97,300	9,481	10,383	11,239
West Virginia	226	208	13,277	522	765	1,541
Wisconsin	10,324	10,235	101,211	9,879	7,700	7,455
Wyoming	W	W	706	W	W	W
Total	686,335	770,962	9,671,095	771,355	737,310	797,631

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2015-2017

(million cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	33,356	37,742	39,373	36,860	32,480	24,780
Alaska	1,863	2,116	2,365	2,311	1,781	2,907
Arizona	31,091	38,244	33,842	30,537	13,238	13,368
Arkansas	8,552	12,523	12,805	9,865	7,343	8,745
California	89,295	91,733	86,319	74,951	51,799	52,877
Colorado	9,582	10,114	9,620	8,089	5,015	5,970
Connecticut	10,504	12,188	11,619	9,406	8,748	8,839
Delaware	4,903	5,119	5,710	4,509	4,886	5,269
District of Columbia	--	--	--	--	--	--
Florida	105,993	113,372	111,305	105,902	101,485	98,620
Georgia	30,621	35,927	39,940	33,576	27,974	22,117
Hawaii	--	--	--	--	--	--
Idaho	2,930	3,645	3,230	3,481	2,082	1,276
Illinois	8,788	7,957	11,120	7,075	4,727	5,221
Indiana	7,942	10,138	10,486	9,343	9,238	9,110
Iowa	1,750	2,364	3,063	1,746	875	728
Kansas	1,662	2,353	3,425	1,970	1,189	1,027
Kentucky	4,867	4,798	6,310	3,656	3,415	3,307
Louisiana	27,504	33,927	36,977	33,989	27,800	24,960
Maine	1,538	1,839	1,132	573	745	947
Maryland	4,162	4,947	6,571	4,315	4,383	2,652
Massachusetts	16,586	23,001	22,583	14,822	15,056	11,249
Michigan	14,817	14,732	17,544	14,362	12,526	10,626
Minnesota	6,416	6,314	7,274	4,664	2,150	4,395
Mississippi	26,810	32,206	34,848	32,210	26,239	20,086
Missouri	3,641	5,682	6,523	4,316	1,856	2,444
Montana	770	803	918	705	482	498
Nebraska	505	890	1,257	686	201	242
Nevada	20,109	22,904	20,722	21,244	15,320	15,970
New Hampshire	3,922	4,622	4,211	3,618	3,865	3,308
New Jersey	29,675	29,355	30,618	24,861	24,474	18,160
New Mexico	6,895	8,798	8,114	6,787	4,441	5,744
New York	49,022	54,763	54,290	40,290	38,846	29,269
North Carolina	23,579	24,881	25,946	26,406	23,825	19,201
North Dakota	433	492	497	W	W	W
Ohio	17,928	19,618	20,417	18,226	15,180	13,132
Oklahoma	20,143	27,950	30,396	22,126	17,107	16,903
Oregon	11,754	11,616	12,013	10,573	8,295	8,202
Pennsylvania	39,738	47,480	47,934	38,101	31,222	31,691
Rhode Island	3,507	7,037	6,902	6,135	5,728	2,475
South Carolina	11,768	13,664	14,943	14,514	9,903	9,540
South Dakota	519	943	1,216	769	572	332
Tennessee	6,133	6,002	7,594	7,026	6,508	4,485
Texas	151,139	185,654	181,401	147,288	124,315	118,966
Utah	5,171	6,238	5,768	5,443	4,572	3,905
Vermont	1	*	*	1	6	*
Virginia	22,109	26,163	29,071	26,215	22,115	12,719
Washington	10,914	10,802	12,265	9,569	6,016	4,616
West Virginia	1,742	1,873	2,142	1,614	1,213	806
Wisconsin	9,104	8,982	11,015	8,205	7,133	6,523
Wyoming	W	W	W	W	W	W
Total	901,839	1,034,595	1,053,747	893,343	738,628	668,471

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2015-2017

(million cubic feet) – continued

State	2015		
	March	February	January
Alabama	30,436	31,501	35,616
Alaska	2,470	2,367	2,945
Arizona	9,409	8,635	11,365
Arkansas	10,498	12,257	9,850
California	53,804	46,614	61,882
Colorado	6,214	5,508	6,471
Connecticut	8,474	7,570	10,731
Delaware	2,110	1,594	3,037
District of Columbia	--	--	--
Florida	86,390	74,272	81,404
Georgia	25,712	25,962	29,248
Hawaii	--	--	--
Idaho	857	438	2,272
Illinois	5,789	5,612	5,960
Indiana	12,997	13,294	11,362
Iowa	1,257	1,309	1,354
Kansas	1,124	947	483
Kentucky	3,123	5,559	2,282
Louisiana	23,525	22,235	21,942
Maine	1,787	1,294	1,871
Maryland	1,497	1,389	1,114
Massachusetts	7,951	6,635	7,223
Michigan	14,651	14,668	14,221
Minnesota	4,687	3,496	2,419
Mississippi	26,796	30,519	26,543
Missouri	W	2,992	2,715
Montana	535	W	557
Nebraska	164	W	185
Nevada	13,336	13,116	12,919
New Hampshire	3,393	2,236	3,622
New Jersey	22,976	18,435	19,752
New Mexico	6,183	5,514	6,628
New York	39,410	29,469	35,355
North Carolina	19,153	20,073	21,994
North Dakota	W	W	W
Ohio	19,948	19,594	19,461
Oklahoma	18,885	20,710	20,692
Oregon	6,047	3,597	8,155
Pennsylvania	34,488	26,179	32,578
Rhode Island	3,176	1,716	2,157
South Carolina	8,308	7,075	7,192
South Dakota	W	495	516
Tennessee	4,226	6,914	4,753
Texas	128,933	115,697	128,404
Utah	3,298	3,411	4,026
Vermont	1	2	5
Virginia	18,261	17,633	17,681
Washington	4,762	2,245	5,010
West Virginia	362	436	260
Wisconsin	8,768	8,652	7,795
Wyoming	W	W	W
Total	709,358	650,586	714,235

^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.

* Volume is less than 500,000 cubic feet.

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

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

Table 18. Natural gas deliveries to all consumers, by state, 2015-2017
(million cubic feet)

State	2017			2016		
	January	Total	December	November	October	September
Alabama	50,992	R657,303	R55,914	49,901	49,258	R56,287
Alaska	8,062	60,244	7,467	6,557	5,385	4,082
Arizona	22,454	343,385	20,288	18,949	26,102	33,314
Arkansas	NA	R288,870	R26,948	R23,618	R19,372	R18,750
California	NA	2,106,564	215,161	175,318	167,442	171,064
Colorado	50,880	353,314	48,034	29,688	20,757	17,089
Connecticut	29,358	246,701	R27,640	R21,659	R16,623	R15,057
Delaware	8,616	NA	8,753	NA	9,278	8,687
District of Columbia	NA	27,910	4,226	2,580	1,303	945
Florida	93,494	1,360,634	93,069	91,763	R110,927	R122,172
Georgia	67,623	702,401	66,916	51,691	46,436	49,191
Hawaii	291	3,043	263	253	250	264
Idaho	16,176	100,808	14,611	8,280	7,184	6,826
Illinois	140,205	NA	146,835	80,513	59,358	47,517
Indiana	83,862	731,555	90,885	59,841	44,690	44,148
Iowa	40,932	317,537	41,599	27,618	22,144	18,464
Kansas	29,234	NA	30,504	17,822	13,200	13,067
Kentucky	27,673	262,674	32,047	21,229	16,771	15,634
Louisiana	NA	R1,434,219	R120,640	R111,838	R111,469	R115,667
Maine	3,500	NA	4,031	3,479	4,064	NA
Maryland	NA	NA	NA	15,278	11,332	11,015
Massachusetts	53,695	420,697	50,370	33,129	25,385	23,440
Michigan	114,275	880,231	114,061	73,158	53,831	42,514
Minnesota	NA	NA	55,804	36,270	26,273	NA
Mississippi	41,056	NA	44,377	R34,286	R37,342	46,592
Missouri	NA	NA	41,273	20,268	NA	13,314
Montana	10,729	NA	NA	6,683	NA	NA
Nebraska	19,577	153,475	19,947	13,346	10,525	9,311
Nevada	31,047	NA	NA	22,726	20,892	NA
New Hampshire	4,679	NA	5,754	5,411	3,599	4,901
New Jersey	NA	768,264	88,622	55,717	50,275	47,803
New Mexico	18,076	157,692	17,744	13,198	11,353	10,648
New York	156,802	1,293,686	150,602	102,906	79,105	76,142
North Carolina	51,040	521,061	51,943	44,497	32,404	35,849
North Dakota	8,117	62,865	7,172	5,600	5,321	4,264
Ohio	115,576	899,290	113,891	77,396	54,902	47,406
Oklahoma	50,607	557,708	52,893	43,295	37,357	42,447
Oregon	33,222	232,404	32,108	19,183	17,454	19,946
Pennsylvania	118,303	R1,082,675	R122,572	R94,415	74,697	71,389
Rhode Island	9,000	84,118	8,604	6,423	5,182	5,796
South Carolina	23,386	R272,222	23,544	26,486	20,423	22,445
South Dakota	9,253	74,430	8,903	6,342	5,157	4,683
Tennessee	36,346	325,351	41,691	23,825	20,575	21,445
Texas	NA	NA	R297,242	R261,348	R268,677	R299,478
Utah	29,925	199,436	27,791	17,077	12,104	10,568
Vermont	1,614	NA	1,587	1,082	819	588
Virginia	NA	NA	48,421	42,281	NA	39,911
Washington	43,856	292,561	40,019	24,006	21,532	22,220
West Virginia	10,411	89,981	10,939	8,144	7,053	5,358
Wisconsin	62,266	476,137	61,446	36,591	26,868	23,355
Wyoming	9,776	NA	R9,373	R7,146	R5,989	R4,843
Total	2,685,402	R25,264,673	R2,670,115	R1,988,865	R1,749,120	R1,775,193

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2015-2017

(million cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	59,879	R61,004	R56,493	52,226	45,585	51,989
Alaska	3,638	3,397	3,318	3,707	4,257	5,533
Arizona	40,449	40,916	36,028	25,972	25,247	21,868
Arkansas	25,978	25,370	26,475	22,346	21,580	26,559
California	189,906	176,235	164,171	146,108	145,566	161,492
Colorado	19,711	21,121	20,147	23,617	30,317	35,484
Connecticut	17,380	16,791	R14,450	R17,313	21,402	R21,860
Delaware	10,410	10,826	9,102	7,766	8,823	8,771
District of Columbia	981	999	983	1,430	2,074	2,466
Florida	R133,929	R135,951	R127,070	R121,206	R115,443	R107,169
Georgia	59,172	60,816	57,546	53,234	52,837	57,089
Hawaii	264	255	240	243	256	248
Idaho	7,159	6,264	5,389	5,617	5,420	9,198
Illinois	53,068	NA	NA	54,757	75,944	97,925
Indiana	48,791	49,010	47,485	53,081	55,618	66,122
Iowa	20,861	20,333	18,925	21,026	22,823	28,782
Kansas	16,211	15,904	14,671	NA	R14,377	18,467
Kentucky	18,108	18,006	16,824	17,231	18,454	24,366
Louisiana	122,101	129,827	121,437	121,883	114,988	119,996
Maine	5,414	5,109	NA	NA	NA	NA
Maryland	15,749	15,193	9,761	12,492	15,646	19,664
Massachusetts	30,203	30,090	26,938	29,865	34,421	39,445
Michigan	52,996	47,528	44,645	55,823	80,329	88,227
Minnesota	27,513	25,871	23,202	25,690	NA	44,922
Mississippi	48,964	50,747	NA	43,626	NA	38,789
Missouri	15,061	15,619	15,584	14,844	18,382	22,697
Montana	NA	NA	NA	3,849	NA	NA
Nebraska	11,550	10,915	10,202	9,477	10,910	12,626
Nevada	NA	NA	26,088	22,788	21,360	23,087
New Hampshire	5,482	5,053	NA	NA	NA	NA
New Jersey	59,913	59,911	50,622	48,734	58,979	68,583
New Mexico	11,701	12,382	11,183	10,541	11,400	13,166
New York	96,682	92,474	78,577	84,948	102,021	118,106
North Carolina	42,365	40,568	35,425	34,982	39,758	46,879
North Dakota	3,838	3,825	4,155	4,296	3,917	5,628
Ohio	51,975	50,536	46,353	50,174	73,089	85,084
Oklahoma	48,076	52,144	50,148	44,126	41,309	42,348
Oregon	20,428	16,711	14,446	10,965	11,771	19,835
Pennsylvania	82,582	80,657	R71,743	R68,263	79,252	R92,430
Rhode Island	6,769	7,030	5,993	7,025	6,203	8,516
South Carolina	23,406	24,089	20,940	19,652	R17,586	21,550
South Dakota	5,311	4,930	4,666	5,098	6,141	6,691
Tennessee	23,062	22,501	22,010	20,020	20,972	27,247
Texas	NA	NA	NA	281,584	271,540	291,489
Utah	11,175	12,116	11,664	13,165	16,067	17,998
Vermont	567	576	566	652	NA	1,101
Virginia	49,592	48,172	41,502	35,734	31,264	42,267
Washington	22,236	19,919	16,658	16,826	16,382	25,498
West Virginia	4,721	4,939	5,199	5,815	6,848	8,721
Wisconsin	30,213	28,478	26,941	29,338	39,801	49,645
Wyoming	R4,835	R4,708	R4,961	R6,161	NA	NA
Total	R2,027,554	R2,005,765	R1,827,326	R1,788,787	R1,908,192	R2,169,023

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2015-2017

(million cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	54,364	64,403	642,961	54,905	50,654	49,410
Alaska	5,874	7,029	69,642	7,912	6,892	5,288
Arizona	23,678	30,575	337,347	30,546	25,902	29,635
Arkansas	23,250	28,625	274,727	23,235	19,028	14,993
California	172,051	222,051	2,247,961	234,012	194,884	186,153
Colorado	38,677	48,673	348,183	49,108	40,211	22,665
Connecticut	27,237	29,289	248,366	22,980	19,695	17,358
Delaware	8,440	9,107	100,842	7,513	6,900	6,916
District of Columbia	4,776	5,148	31,502	3,143	2,631	1,872
Florida	96,540	105,395	1,334,385	105,479	105,863	113,989
Georgia	67,585	79,886	684,971	56,568	55,916	52,489
Hawaii	247	259	2,922	250	227	239
Idaho	11,078	13,782	99,811	13,907	11,409	7,662
Illinois	127,574	150,729	966,018	107,693	84,914	57,574
Indiana	79,192	92,692	710,564	71,835	59,417	47,975
Iowa	34,429	40,532	308,324	32,862	25,435	21,652
Kansas	23,559	30,564	216,014	25,014	18,027	13,375
Kentucky	28,846	35,157	252,877	22,855	22,310	18,353
Louisiana	114,357	130,017	1,357,572	123,012	115,968	112,509
Maine	NA	NA	51,191	4,275	4,385	4,894
Maryland	26,802	31,097	207,716	18,805	16,625	12,834
Massachusetts	46,939	50,473	433,907	36,397	31,129	29,657
Michigan	108,693	118,425	826,917	85,543	70,111	54,392
Minnesota	NA	NA	422,112	51,546	35,699	27,050
Mississippi	45,335	49,951	496,388	40,342	39,644	37,359
Missouri	33,852	42,578	262,812	29,364	21,008	13,199
Montana	7,307	9,292	67,159	9,224	7,727	4,718
Nebraska	15,590	19,075	154,420	17,040	13,653	10,155
Nevada	25,038	32,328	292,860	31,083	24,211	23,070
New Hampshire	NA	5,947	68,609	5,390	6,040	4,641
New Jersey	82,039	97,065	746,777	63,365	56,408	46,188
New Mexico	15,153	19,224	154,224	18,841	14,104	10,676
New York	146,947	165,176	1,326,168	111,673	99,041	86,215
North Carolina	55,929	60,463	493,801	42,774	42,625	35,105
North Dakota	6,186	7,617	58,201	6,170	5,478	4,432
Ohio	114,448	134,036	938,930	87,546	73,198	55,280
Oklahoma	44,391	59,174	541,224	55,974	47,190	36,076
Oregon	22,342	27,214	232,158	28,039	25,331	18,420
Pennsylvania	114,634	130,040	1,068,687	95,829	86,544	78,652
Rhode Island	7,975	8,602	90,891	6,915	7,674	6,249
South Carolina	23,829	28,273	270,601	24,390	25,792	22,864
South Dakota	7,692	8,816	73,362	8,090	6,624	4,860
Tennessee	37,176	44,827	305,092	28,917	24,198	18,784
Texas	287,939	332,495	3,639,217	315,333	272,469	280,076
Utah	22,060	27,650	187,605	27,899	20,811	10,851
Vermont	1,459	1,695	11,814	1,173	1,028	876
Virginia	53,524	60,537	484,734	44,396	36,526	27,460
Washington	29,243	38,022	296,358	37,216	34,685	25,461
West Virginia	10,183	12,061	86,593	7,416	6,876	6,220
Wisconsin	57,375	66,088	455,096	49,589	38,889	29,319
Wyoming	7,469	8,526	72,916	9,340	7,384	5,006
Total	2,466,212	2,888,522	25,053,530	2,392,722	2,069,390	1,811,143

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2015-2017

(million cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	50,245	54,988	57,075	53,437	50,554	42,142
Alaska	4,451	3,768	3,915	3,850	4,209	6,324
Arizona	35,525	42,566	38,370	35,446	19,112	19,839
Arkansas	18,137	22,054	22,228	19,318	17,712	20,592
California	188,710	198,391	192,293	175,938	163,283	165,093
Colorado	19,007	18,985	18,838	18,092	21,914	24,475
Connecticut	15,681	17,414	16,767	14,710	15,290	20,133
Delaware	7,972	8,362	8,947	7,692	8,416	9,831
District of Columbia	1,147	1,108	1,051	1,150	1,257	1,949
Florida	118,347	125,914	124,432	119,224	115,263	113,144
Georgia	49,214	54,775	58,873	52,157	48,145	43,166
Hawaii	232	239	242	244	228	254
Idaho	6,873	7,042	6,456	7,059	6,443	6,583
Illinois	43,492	42,342	46,090	42,029	46,909	67,759
Indiana	39,803	42,445	43,269	41,485	45,278	51,908
Iowa	18,212	18,908	19,651	18,577	19,581	21,913
Kansas	12,842	15,507	16,099	12,782	12,215	13,388
Kentucky	15,435	15,694	16,842	14,254	14,566	17,009
Louisiana	108,810	117,522	117,081	112,740	111,422	104,903
Maine	3,611	3,870	3,189	2,680	2,947	3,956
Maryland	9,828	10,463	12,316	10,128	10,703	13,739
Massachusetts	25,693	31,624	31,449	24,430	26,713	33,166
Michigan	37,523	37,227	39,331	37,128	41,913	60,901
Minnesota	22,875	22,081	22,421	20,431	21,217	32,533
Mississippi	38,613	43,495	46,155	43,778	37,675	31,901
Missouri	11,960	13,981	14,752	12,603	11,404	18,106
Montana	3,600	3,660	3,282	3,185	3,979	4,952
Nebraska	8,664	9,740	11,073	9,402	9,805	10,966
Nevada	24,570	27,370	24,970	26,056	20,870	22,395
New Hampshire	4,926	5,573	5,203	4,694	5,020	5,348
New Jersey	45,403	45,176	47,812	41,731	44,949	59,327
New Mexico	10,137	12,154	11,297	10,533	8,933	10,762
New York	79,161	85,884	84,705	72,085	78,894	95,756
North Carolina	35,545	36,713	37,315	38,201	35,765	33,993
North Dakota	3,657	3,529	2,971	3,307	4,064	4,298
Ohio	45,637	48,179	49,618	48,997	51,954	71,113
Oklahoma	38,004	44,220	45,431	37,815	36,946	37,119
Oregon	18,235	17,542	17,829	16,730	15,976	18,469
Pennsylvania	67,108	73,702	74,612	66,802	63,923	79,513
Rhode Island	4,840	8,375	8,259	7,616	7,400	5,628
South Carolina	20,308	22,307	23,409	22,960	18,946	19,258
South Dakota	4,497	5,007	5,209	4,942	5,102	5,493
Tennessee	18,247	17,841	19,261	19,189	19,168	19,714
Texas	294,187	335,841	332,168	294,230	276,196	272,306
Utah	10,250	11,742	11,351	11,805	12,967	14,563
Vermont	566	544	587	569	500	895
Virginia	34,375	37,663	40,618	37,847	34,819	29,214
Washington	22,122	20,118	21,456	19,639	18,108	21,000
West Virginia	4,954	4,941	5,157	4,777	4,894	6,427
Wisconsin	23,616	23,421	25,140	22,377	24,878	33,060
Wyoming	4,538	4,349	4,606	4,767	5,383	5,822
Total	1,731,389	1,876,359	1,891,471	1,731,619	1,683,806	1,832,097

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2015-2017
(million cubic feet) – continued

State	2015		
	March	February	January
Alabama	52,437	61,057	66,057
Alaska	7,352	7,022	8,659
Arizona	17,432	17,874	25,102
Arkansas	28,589	35,096	33,744
California	168,376	165,790	215,036
Colorado	31,756	37,147	45,986
Connecticut	27,483	28,851	32,004
Delaware	8,862	8,719	10,713
District of Columbia	4,306	5,602	6,285
Florida	101,972	91,489	99,269
Georgia	57,023	76,097	80,548
Hawaii	252	237	278
Idaho	6,971	7,480	11,926
Illinois	112,117	158,479	156,620
Indiana	77,530	95,657	93,962
Iowa	30,517	40,554	40,462
Kansas	19,942	27,342	29,481
Kentucky	25,949	36,526	33,084
Louisiana	107,129	108,232	118,244
Maine	5,781	5,330	6,273
Maryland	25,620	33,717	32,940
Massachusetts	48,863	57,377	57,408
Michigan	98,836	133,963	130,049
Minnesota	46,520	60,554	59,185
Mississippi	41,991	48,766	46,670
Missouri	33,925	42,379	40,131
Montana	6,256	7,389	9,188
Nebraska	13,910	19,668	20,344
Nevada	21,001	21,764	25,499
New Hampshire	6,982	6,674	8,119
New Jersey	92,127	102,840	101,451
New Mexico	13,356	15,127	18,302
New York	165,819	181,039	185,897
North Carolina	41,817	56,931	57,019
North Dakota	5,925	7,170	7,202
Ohio	120,132	144,972	142,304
Oklahoma	46,576	56,199	59,672
Oregon	16,821	15,236	23,530
Pennsylvania	117,862	131,484	132,655
Rhode Island	9,189	9,181	9,567
South Carolina	21,226	23,878	25,264
South Dakota	6,329	8,394	8,814
Tennessee	29,720	47,266	42,787
Texas	316,962	299,718	349,733
Utah	14,589	17,343	23,432
Vermont	1,493	1,748	1,836
Virginia	47,088	58,044	56,684
Washington	23,696	21,931	30,926
West Virginia	10,765	12,588	11,578
Wisconsin	50,438	68,283	66,086
Wyoming	6,510	6,824	8,387
Total	2,394,119	2,733,026	2,906,390

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

^R Revised data.

^{NA} Not available.

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

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

Table 19. Average citygate price, by state, 2015-2017
(dollars per thousand cubic feet)

State	2017	2016				
	January	Total	December	November	October	September
Alabama	4.13	3.44	3.78	3.85	4.20	3.89
Alaska	NA	6.75	7.29	6.82	7.10	6.32
Arizona	4.37	4.07	4.74	4.91	4.09	3.92
Arkansas	4.17	4.29	3.83	4.37	6.02	5.69
California	3.87	2.96	3.64	3.30	3.51	3.56
Colorado	3.92	3.56	3.61	3.88	4.73	5.27
Connecticut	4.45	3.57	3.90	3.31	3.13	4.29
Delaware	4.34	4.91	4.28	4.17	6.15	8.20
District of Columbia	--	--	--	--	--	--
Florida	NA	NA	NA	NA	NA	4.13
Georgia	4.69	3.67	4.08	4.09	4.34	4.24
Hawaii	15.34	13.81	14.75	12.93	15.07	14.06
Idaho	3.17	NA	3.16	3.29	3.18	3.29
Illinois	3.95	NA	3.63	3.38	4.25	5.19
Indiana	3.81	3.56	3.81	3.60	4.24	4.77
Iowa	4.55	NA	4.07	4.16	4.34	4.76
Kansas	4.22	4.08	3.74	4.40	6.60	6.84
Kentucky	NA	3.35	3.77	3.53	3.63	3.45
Louisiana	NA	NA	NA	4.23	3.98	4.07
Maine	7.36	6.41	6.22	6.25	4.24	5.33
Maryland	4.43	NA	NA	4.20	5.42	NA
Massachusetts	4.66	4.49	4.61	4.16	5.36	8.26
Michigan	3.84	NA	3.54	3.65	3.53	NA
Minnesota	4.30	3.71	4.05	4.17	3.71	4.38
Mississippi	NA	NA	NA	4.14	4.17	3.90
Missouri	4.21	4.05	3.76	3.91	6.10	6.26
Montana	3.14	3.04	2.87	3.17	3.33	3.45
Nebraska	4.36	NA	3.67	3.99	NA	3.65
Nevada	4.46	NA	NA	3.70	4.10	4.45
New Hampshire	NA	NA	5.32	4.60	3.80	5.34
New Jersey	4.52	3.93	4.14	3.94	3.75	4.02
New Mexico	3.93	NA	NA	3.22	3.62	3.47
New York	3.94	3.57	3.85	3.40	3.57	6.47
North Carolina	NA	3.44	3.72	3.33	4.43	4.76
North Dakota	4.58	3.88	4.10	4.64	4.51	4.52
Ohio	4.02	3.27	3.62	3.43	3.09	2.38
Oklahoma	4.46	3.98	4.04	4.00	5.03	5.29
Oregon	3.59	NA	3.69	3.84	NA	5.76
Pennsylvania	4.08	3.71	3.72	4.13	4.01	5.26
Rhode Island	2.12	2.12	1.99	1.96	1.96	2.01
South Carolina	NA	3.64	4.44	3.66	4.01	3.94
South Dakota	4.35	3.65	3.92	4.25	4.20	4.73
Tennessee	4.24	3.42	3.73	3.90	4.26	3.99
Texas	5.28	4.09	5.36	5.10	4.93	4.16
Utah	5.37	5.15	5.35	5.00	4.82	3.86
Vermont	NA	5.13	5.11	4.74	4.08	4.21
Virginia	3.90	4.00	3.74	3.87	5.37	6.50
Washington	NA	NA	3.58	4.14	NA	NA
West Virginia	3.63	3.47	3.30	3.45	3.73	5.14
Wisconsin	4.46	3.91	3.88	4.24	4.36	5.18
Wyoming	4.27	3.53	4.00	3.48	3.76	3.46
Total	4.20	3.72	3.95	3.89	4.19	4.59

See footnotes at end of table.

Table 19. Average citygate price, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	3.89	3.89	3.34	2.99	2.90	3.00
Alaska	6.19	6.12	6.03	6.21	6.37	6.45
Arizona	3.86	4.05	3.31	2.77	3.03	4.85
Arkansas	6.22	6.68	6.16	4.79	4.60	4.53
California	3.29	3.34	2.52	2.49	2.25	2.30
Colorado	4.81	5.16	4.22	3.25	2.78	3.43
Connecticut	4.20	4.69	4.58	3.85	3.20	3.09
Delaware	8.50	8.77	8.53	6.24	5.03	4.70
District of Columbia	--	--	--	--	--	--
Florida	3.87	3.69	3.46	3.50	3.37	3.83
Georgia	4.01	4.32	3.44	3.37	3.19	3.21
Hawaii	13.33	13.54	17.26	16.20	14.19	13.19
Idaho	2.69	NA	NA	3.22	2.79	3.67
Illinois	4.66	4.25	NA	3.10	3.39	3.33
Indiana	4.89	5.21	4.35	3.25	2.91	3.45
Iowa	NA	4.64	4.16	3.43	3.41	3.83
Kansas	5.55	5.33	5.64	4.57	4.41	3.56
Kentucky	3.26	3.47	2.85	2.93	2.97	3.26
Louisiana	3.85	4.00	3.16	2.99	3.03	3.32
Maine	4.67	5.29	5.37	3.81	3.58	7.53
Maryland	NA	8.80	7.14	4.57	3.89	4.34
Massachusetts	6.95	7.49	5.90	4.86	3.94	3.40
Michigan	3.08	3.21	2.74	2.87	2.91	3.90
Minnesota	4.28	3.88	3.49	2.98	2.94	3.77
Mississippi	3.79	4.04	3.46	3.19	3.36	NA
Missouri	6.79	6.86	5.18	4.79	4.13	3.79
Montana	3.34	3.12	2.50	2.28	2.42	3.03
Nebraska	3.90	NA	3.17	3.00	3.14	4.16
Nevada	4.76	4.50	3.74	3.19	3.16	3.18
New Hampshire	NA	6.79	5.79	3.87	2.72	3.57
New Jersey	3.75	3.92	3.91	3.80	3.81	3.98
New Mexico	3.39	3.50	2.89	2.43	2.23	2.75
New York	6.94	6.69	5.52	4.26	3.03	2.84
North Carolina	4.83	5.28	4.38	3.71	3.21	3.10
North Dakota	4.19	4.36	2.83	2.71	2.97	3.65
Ohio	2.53	2.69	2.46	2.61	2.41	3.09
Oklahoma	5.39	5.51	4.77	3.83	3.73	3.58
Oregon	5.08	5.59	4.97	4.47	3.97	3.48
Pennsylvania	5.63	6.52	6.36	4.35	3.28	3.98
Rhode Island	2.03	2.06	2.05	2.09	2.14	2.22
South Carolina	3.75	3.87	3.43	3.08	3.37	3.41
South Dakota	4.82	4.47	3.06	2.28	2.47	3.40
Tennessee	3.64	3.88	3.19	3.02	2.97	3.09
Texas	4.00	3.94	3.41	3.20	3.20	3.60
Utah	3.24	3.37	3.58	4.60	4.63	6.06
Vermont	4.22	4.01	4.24	4.96	4.85	6.93
Virginia	7.04	6.25	6.42	4.38	3.92	3.72
Washington	4.35	4.56	3.57	3.85	3.43	NA
West Virginia	5.08	5.59	4.62	3.43	3.22	3.27
Wisconsin	4.80	5.08	4.12	3.67	3.16	3.73
Wyoming	3.38	R3.19	R2.56	R3.07	R3.10	R3.47
Total	4.37	4.45	3.98	3.45	3.22	3.49

See footnotes at end of table.

Table 19. Average citygate price, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	3.18	3.22	3.91	3.27	3.61	3.83
Alaska	6.85	6.93	6.57	6.53	6.56	6.11
Arizona	4.60	3.64	4.38	3.65	4.42	4.25
Arkansas	3.76	3.43	4.77	4.00	4.16	5.63
California	2.65	2.72	3.27	3.02	3.08	3.32
Colorado	3.23	3.09	3.98	3.07	3.24	4.60
Connecticut	3.45	3.27	4.07	3.80	3.36	5.38
Delaware	3.84	3.81	5.87	4.98	5.14	6.54
District of Columbia	--	--	--	--	--	--
Florida	3.95	3.86	4.75	4.65	3.92	4.17
Georgia	3.25	3.35	3.83	3.51	3.37	3.80
Hawaii	10.52	10.93	18.11	14.81	14.92	14.59
Idaho	3.47	3.20	3.95	3.34	3.52	3.75
Illinois	2.79	3.12	3.82	3.43	3.17	3.61
Indiana	3.25	3.26	4.03	3.52	3.62	3.68
Iowa	3.62	3.65	4.29	3.79	3.81	3.58
Kansas	3.41	3.38	4.59	3.55	3.94	5.53
Kentucky	3.26	3.24	3.96	3.85	3.21	3.41
Louisiana	3.49	3.51	3.32	2.95	2.62	2.95
Maine	8.85	7.79	8.76	8.01	7.52	4.38
Maryland	3.52	3.30	5.01	5.19	4.26	4.07
Massachusetts	4.30	3.93	5.72	5.42	4.42	4.62
Michigan	3.84	3.80	4.23	3.95	3.87	3.65
Minnesota	3.65	3.43	4.39	3.65	4.06	3.51
Mississippi	3.85	3.28	4.05	4.29	3.02	3.68
Missouri	3.36	3.29	4.64	3.48	3.86	5.33
Montana	3.43	3.23	3.71	3.25	2.87	3.28
Nebraska	3.80	3.65	4.32	3.23	3.83	4.04
Nevada	3.56	3.38	4.06	3.15	3.57	4.40
New Hampshire	7.03	7.02	7.64	6.40	4.34	3.59
New Jersey	3.94	3.84	4.87	4.27	4.30	4.37
New Mexico	2.80	2.72	3.32	2.76	2.80	3.34
New York	2.92	2.62	4.15	3.56	3.54	4.57
North Carolina	2.87	2.98	3.81	3.10	2.79	3.88
North Dakota	3.84	3.76	4.46	3.94	4.16	4.58
Ohio	3.55	3.60	4.49	3.75	3.45	3.02
Oklahoma	3.69	3.62	4.59	3.86	4.22	5.28
Oregon	3.79	3.64	4.65	3.72	3.92	5.15
Pennsylvania	3.18	3.04	4.38	4.10	4.24	3.79
Rhode Island	2.24	2.23	3.14	2.21	2.22	2.24
South Carolina	3.27	3.42	3.90	3.48	3.20	3.56
South Dakota	3.49	3.65	4.16	4.01	4.19	4.60
Tennessee	3.14	3.21	4.06	3.45	3.49	3.80
Texas	3.87	3.79	4.19	4.37	3.90	4.17
Utah	6.05	5.61	5.70	5.96	4.84	5.49
Vermont	5.98	5.52	6.33	5.93	5.08	4.59
Virginia	3.31	3.40	4.87	4.36	4.07	4.75
Washington	3.63	3.21	4.42	3.46	3.51	4.25
West Virginia	3.38	3.14	4.00	3.63	3.57	3.60
Wisconsin	3.92	3.67	4.71	3.96	4.21	4.25
Wyoming	3.75	3.62	4.36	3.89	3.88	4.09
Total	3.48	3.39	4.26	3.75	3.68	4.00

See footnotes at end of table.

Table 19. Average citygate price, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	3.81	4.04	3.94	3.96	3.84	4.08
Alaska	5.90	5.80	5.60	5.61	5.80	6.22
Arizona	4.48	4.53	4.55	4.29	3.81	3.95
Arkansas	5.58	6.92	7.11	6.56	5.52	6.31
California	3.42	3.55	3.56	3.42	2.96	3.13
Colorado	5.60	5.59	5.33	5.20	4.22	4.11
Connecticut	4.59	4.45	4.58	4.58	4.49	3.28
Delaware	10.35	10.03	10.56	10.05	9.71	6.31
District of Columbia	--	--	--	--	--	--
Florida	4.53	4.44	4.87	5.12	3.85	5.24
Georgia	4.14	4.16	4.16	4.23	3.93	4.04
Hawaii	15.38	17.72	22.97	25.54	22.92	19.95
Idaho	3.67	4.50	4.65	3.99	3.81	3.42
Illinois	4.91	4.75	5.12	4.09	3.95	3.54
Indiana	4.58	4.82	4.57	4.61	4.26	3.55
Iowa	4.62	4.61	4.54	3.63	4.32	4.12
Kansas	6.43	5.66	5.39	6.04	5.72	3.64
Kentucky	3.34	3.41	3.44	3.97	3.78	3.75
Louisiana	3.08	3.28	3.48	3.22	3.04	3.08
Maine	5.52	5.39	9.76	7.37	7.25	6.30
Maryland	7.19	8.89	7.53	6.67	5.94	4.14
Massachusetts	7.59	7.15	7.30	6.25	6.74	3.93
Michigan	3.60	3.82	3.82	3.92	3.71	3.84
Minnesota	4.49	4.52	4.68	4.29	3.66	3.83
Mississippi	3.64	3.82	3.81	3.83	3.64	3.46
Missouri	6.73	7.26	7.35	6.97	6.51	5.47
Montana	3.10	3.36	3.43	3.24	3.56	3.44
Nebraska	4.68	4.16	4.11	3.65	4.71	3.93
Nevada	4.38	4.64	4.53	4.15	3.89	3.95
New Hampshire	5.90	7.17	7.87	9.74	5.52	4.46
New Jersey	5.00	4.84	4.70	4.78	4.73	4.48
New Mexico	3.57	3.74	3.64	3.55	3.17	3.56
New York	7.12	7.07	7.01	6.26	5.72	2.94
North Carolina	4.43	4.68	4.64	4.62	4.46	4.05
North Dakota	5.00	4.32	3.56	3.59	3.46	4.08
Ohio	2.34	3.04	3.24	3.98	4.21	4.51
Oklahoma	5.45	5.43	5.17	4.82	4.23	4.34
Oregon	5.19	5.84	6.30	5.36	5.37	4.68
Pennsylvania	6.30	6.22	5.85	5.60	6.65	4.51
Rhode Island	2.31	2.41	2.52	2.66	2.83	3.09
South Carolina	4.01	3.96	3.97	4.07	4.09	4.11
South Dakota	4.72	4.44	4.11	3.81	3.01	3.21
Tennessee	4.03	4.00	4.12	4.14	4.60	3.95
Texas	3.73	3.86	3.94	3.71	3.58	3.74
Utah	4.18	3.96	4.34	3.99	5.69	5.99
Vermont	5.96	6.34	6.39	7.22	8.35	6.55
Virginia	5.61	7.36	7.00	6.62	6.69	4.52
Washington	5.08	5.84	5.29	5.24	5.10	4.19
West Virginia	4.77	4.72	5.37	4.49	4.06	3.62
Wisconsin	5.61	5.95	5.68	5.79	4.47	4.10
Wyoming	3.89	3.50	3.06	3.55	4.32	4.31
Total	4.56	4.59	4.65	4.44	4.24	3.93

See footnotes at end of table.

Table 19. Average citygate price, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2015		
	March	February	January
Alabama	4.12	3.89	4.18
Alaska	6.86	7.21	7.43
Arizona	5.45	5.08	4.52
Arkansas	4.87	4.27	4.48
California	3.27	3.30	3.58
Colorado	4.45	4.24	3.92
Connecticut	3.89	4.50	4.26
Delaware	4.89	5.29	4.62
District of Columbia	--	--	--
Florida	6.30	5.25	5.33
Georgia	3.81	3.56	3.89
Hawaii	18.30	17.90	13.58
Idaho	4.86	4.66	4.27
Illinois	3.81	4.06	3.87
Indiana	4.23	4.09	4.23
Iowa	4.69	4.26	4.81
Kansas	4.35	4.25	5.27
Kentucky	4.24	4.04	4.48
Louisiana	3.69	3.86	4.15
Maine	9.28	11.79	10.83
Maryland	4.40	5.60	4.61
Massachusetts	4.96	7.43	5.44
Michigan	4.38	4.55	4.63
Minnesota	5.36	4.69	4.72
Mississippi	6.03	3.63	4.37
Missouri	4.50	4.24	4.41
Montana	4.54	4.34	4.53
Nebraska	4.87	4.29	5.19
Nevada	4.70	4.79	4.49
New Hampshire	6.46	10.71	10.03
New Jersey	5.09	5.64	4.66
New Mexico	3.77	3.56	3.62
New York	3.19	4.43	3.84
North Carolina	3.71	3.87	3.90
North Dakota	4.85	4.77	5.03
Ohio	4.79	4.78	4.83
Oklahoma	4.46	4.44	5.21
Oregon	4.83	4.84	4.67
Pennsylvania	4.28	4.10	4.30
Rhode Island	3.59	3.63	3.61
South Carolina	4.11	4.02	4.23
South Dakota	4.02	4.46	4.57
Tennessee	4.32	4.17	4.30
Texas	4.17	4.31	4.93
Utah	6.40	6.81	6.35
Vermont	6.62	6.84	6.59
Virginia	4.01	5.33	4.56
Washington	4.96	4.89	4.79
West Virginia	3.99	4.04	4.13
Wisconsin	4.98	4.76	5.01
Wyoming	4.67	4.95	5.52
Total	4.36	4.57	4.48

^R Revised data.

-- Not applicable.

^{NA} Not available.

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

Source: 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, 2015-2017
(dollars per thousand cubic feet)

State	2017	2016				
	January	Total	December	November	October	September
Alabama	13.43	^R 14.05	14.27	19.09	21.22	^R 21.13
Alaska	9.46	9.81	9.51	9.73	10.07	11.36
Arizona	12.57	15.19	12.63	15.60	18.61	20.69
Arkansas	10.56	11.35	10.83	17.74	18.42	19.07
California	13.17	11.91	13.16	12.40	13.39	13.34
Colorado	NA	7.38	6.48	7.42	9.75	12.12
Connecticut	12.39	12.91	11.73	13.28	16.63	22.18
Delaware	10.85	11.88	11.53	13.74	19.78	22.48
District of Columbia	NA	NA	10.97	NA	NA	19.45
Florida	NA	19.21	17.85	20.38	23.28	23.87
Georgia	12.82	NA	12.31	16.53	25.30	NA
Hawaii	36.66	36.40	37.48	34.09	37.47	35.35
Idaho	7.20	8.11	7.19	7.34	8.21	9.46
Illinois	7.51	7.88	6.75	8.71	12.17	16.73
Indiana	7.63	NA	6.33	8.38	11.79	17.47
Iowa	7.66	NA	6.93	10.22	NA	16.31
Kansas	8.64	NA	NA	NA	18.32	19.93
Kentucky	9.27	10.12	8.63	11.42	19.41	22.87
Louisiana	11.19	11.56	11.23	15.24	16.56	16.17
Maine	13.71	NA	NA	13.32	15.77	NA
Maryland	11.48	NA	NA	13.43	17.66	20.58
Massachusetts	13.00	12.57	13.27	13.38	13.82	15.10
Michigan	7.54	8.14	7.32	7.95	9.34	12.76
Minnesota	8.10	NA	7.28	7.90	9.51	12.91
Mississippi	NA	10.23	9.01	13.66	16.14	15.44
Missouri	8.27	10.93	9.07	15.24	21.68	23.99
Montana	6.73	7.26	6.72	7.35	7.91	10.04
Nebraska	7.39	7.98	7.03	10.04	13.26	15.67
Nevada	6.96	10.23	7.57	9.70	11.49	13.81
New Hampshire	13.26	NA	NA	14.97	19.46	24.66
New Jersey	8.42	8.32	8.50	9.11	10.38	11.90
New Mexico	7.66	8.04	7.60	10.06	12.57	14.34
New York	9.80	10.83	9.59	10.91	14.83	17.32
North Carolina	11.81	NA	10.62	11.90	18.56	NA
North Dakota	5.94	7.21	5.69	6.97	8.50	16.30
Ohio	7.19	9.13	7.91	10.14	18.80	26.09
Oklahoma	7.12	10.58	8.38	18.87	24.83	26.11
Oregon	9.18	NA	9.28	NA	11.60	14.16
Pennsylvania	NA	10.13	9.16	10.56	13.51	18.78
Rhode Island	12.58	13.80	13.03	14.27	17.92	20.26
South Carolina	13.63	12.68	11.67	13.61	22.25	25.36
South Dakota	6.94	7.62	6.76	9.62	10.49	13.40
Tennessee	8.62	NA	8.75	12.14	NA	17.53
Texas	9.67	NA	10.73	18.47	20.14	21.01
Utah	8.40	9.12	8.99	9.90	9.23	10.12
Vermont	12.69	14.15	13.13	14.31	18.75	22.57
Virginia	10.67	NA	NA	12.99	16.38	21.29
Washington	9.77	NA	9.69	10.65	11.11	13.41
West Virginia	8.21	9.26	8.22	8.92	11.65	16.69
Wisconsin	8.06	8.08	7.41	8.26	9.20	14.30
Wyoming	7.50	NA	7.31	8.76	10.24	15.66
Total	9.38	10.06	9.06	10.76	13.74	16.80

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2015-2017

(dollars per thousand cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	21.26	20.57	19.30	17.16	14.45	12.15
Alaska	12.66	12.98	12.14	10.41	9.63	9.09
Arizona	22.29	21.49	19.48	17.44	16.54	18.06
Arkansas	18.86	17.01	15.57	13.88	11.01	10.44
California	12.90	11.97	11.37	11.52	10.50	10.60
Colorado	14.28	14.02	12.51	7.09	6.87	6.71
Connecticut	24.07	21.75	19.19	15.03	12.87	11.74
Delaware	24.20	21.34	17.54	13.44	11.47	10.24
District of Columbia	20.11	18.38	15.35	12.56	10.55	10.72
Florida	23.96	24.18	22.59	20.69	17.98	17.20
Georgia	25.99	25.97	24.64	20.07	16.27	12.90
Hawaii	34.86	34.76	42.55	39.90	36.85	36.99
Idaho	10.13	9.85	9.77	9.18	8.91	8.76
Illinois	17.33	16.50	12.62	10.49	7.53	7.08
Indiana	18.38	18.70	16.30	9.95	NA	7.97
Iowa	17.63	16.05	13.28	8.74	NA	7.33
Kansas	21.71	20.10	18.90	13.40	11.06	9.41
Kentucky	24.40	23.01	20.11	14.80	10.30	8.73
Louisiana	16.97	16.27	14.16	13.40	11.33	10.51
Maine	22.81	21.90	18.01	13.48	12.57	12.99
Maryland	21.29	20.13	16.04	12.63	11.48	11.02
Massachusetts	15.35	14.55	12.84	12.46	12.02	11.70
Michigan	14.50	13.25	12.32	9.28	7.72	7.69
Minnesota	13.38	NA	12.19	10.50	7.58	8.01
Mississippi	16.26	15.93	14.15	13.16	10.94	9.17
Missouri	26.38	24.82	19.70	15.58	11.31	9.30
Montana	11.09	10.30	8.34	7.18	6.75	7.00
Nebraska	16.07	14.98	12.33	9.22	7.60	6.99
Nevada	14.42	14.63	12.99	11.92	11.25	10.84
New Hampshire	24.61	23.02	18.19	13.97	12.22	11.76
New Jersey	12.27	11.49	10.78	9.49	8.99	8.24
New Mexico	15.18	13.85	11.38	8.73	7.48	7.06
New York	17.86	16.65	14.69	10.98	9.87	9.63
North Carolina	NA	22.54	19.64	16.44	13.13	12.63
North Dakota	20.07	20.52	19.22	9.53	6.91	6.31
Ohio	27.29	25.47	19.24	11.70	8.02	7.14
Oklahoma	29.01	24.73	19.82	16.74	10.97	8.93
Oregon	16.28	NA	15.63	15.03	13.59	11.93
Pennsylvania	19.38	18.24	15.54	11.32	9.86	9.46
Rhode Island	20.37	19.20	16.89	14.49	13.42	12.64
South Carolina	25.66	26.97	24.19	18.70	15.24	13.53
South Dakota	14.20	13.53	11.38	7.76	6.89	7.16
Tennessee	18.91	17.06	14.76	12.45	9.50	7.86
Texas	22.75	19.33	NA	16.33	11.63	10.02
Utah	10.75	10.67	9.81	8.89	8.96	9.50
Vermont	23.02	21.11	18.40	14.26	13.30	12.66
Virginia	21.37	19.95	15.54	12.71	10.65	10.21
Washington	15.55	NA	NA	9.90	9.45	9.96
West Virginia	18.41	17.03	15.58	11.73	9.36	8.82
Wisconsin	15.05	14.32	10.57	8.64	7.58	7.40
Wyoming	16.52	NA	11.00	8.49	8.23	7.60
Total	17.63	16.58	14.46	11.61	9.65	9.21

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2015-2017

(dollars per thousand cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	11.26	12.14	14.13	14.48	17.89	19.36
Alaska	8.99	8.87	9.64	8.76	8.86	9.40
Arizona	13.83	11.99	17.04	12.75	14.57	20.78
Arkansas	9.16	9.65	11.58	10.48	13.97	17.62
California	11.53	11.46	11.39	11.38	10.31	11.54
Colorado	6.48	6.10	8.27	6.48	6.92	9.31
Connecticut	10.67	10.34	12.50	11.84	12.53	15.33
Delaware	9.71	10.09	12.62	11.09	14.03	18.50
District of Columbia	9.53	9.96	11.98	10.25	12.06	15.52
Florida	16.13	16.92	19.55	19.43	21.87	23.71
Georgia	10.90	10.74	14.62	13.97	14.73	19.81
Hawaii	33.65	33.36	40.08	38.28	38.53	37.46
Idaho	8.20	7.97	8.59	7.87	7.71	8.90
Illinois	6.30	5.84	7.97	6.30	7.13	9.70
Indiana	6.33	5.95	8.92	6.93	7.34	9.29
Iowa	6.52	6.52	8.51	7.31	8.43	13.18
Kansas	7.89	7.26	10.17	7.79	7.97	14.33
Kentucky	7.60	7.83	10.87	9.35	10.99	16.11
Louisiana	8.70	9.43	10.91	10.90	13.82	15.07
Maine	13.08	13.12	16.79	13.17	12.75	15.03
Maryland	9.44	9.93	12.03	13.09	12.69	13.48
Massachusetts	12.08	11.99	13.02	12.69	11.18	10.75
Michigan	7.56	7.29	8.81	7.57	7.91	8.96
Minnesota	6.92	7.04	8.79	7.12	7.67	9.27
Mississippi	8.09	8.57	9.70	9.70	12.11	13.94
Missouri	8.12	7.98	11.60	9.51	13.97	20.52
Montana	6.88	6.80	8.26	6.85	7.39	9.07
Nebraska	6.49	6.43	8.86	6.83	9.43	13.81
Nevada	9.75	9.12	11.82	8.96	10.80	14.95
New Hampshire	12.70	14.05	16.18	15.06	14.11	17.88
New Jersey	6.86	6.55	8.32	7.80	9.03	10.24
New Mexico	6.44	6.35	8.63	6.76	8.27	13.08
New York	9.43	10.28	11.20	11.43	12.26	14.24
North Carolina	9.07	8.77	11.57	12.87	12.15	14.61
North Dakota	5.61	5.50	8.15	5.60	6.56	9.57
Ohio	6.43	6.46	9.51	7.40	9.68	15.37
Oklahoma	6.82	6.54	10.24	7.34	14.37	23.34
Oregon	11.91	10.43	12.43	10.84	12.69	13.54
Pennsylvania	8.60	8.70	11.04	9.82	10.53	12.23
Rhode Island	12.35	12.73	14.24	13.49	15.48	19.04
South Carolina	9.79	9.07	12.65	15.36	14.91	16.37
South Dakota	6.61	6.31	8.30	6.63	8.04	10.43
Tennessee	7.25	7.38	9.62	9.22	11.74	14.40
Texas	7.79	7.77	10.62	9.31	15.49	19.18
Utah	8.79	8.58	9.72	8.75	9.22	10.85
Vermont	12.53	13.24	14.56	13.84	14.89	18.41
Virginia	8.78	9.47	11.64	12.14	11.77	15.88
Washington	10.22	9.18	11.80	9.74	9.87	13.00
West Virginia	8.31	8.31	10.48	8.86	9.62	12.22
Wisconsin	7.25	7.46	8.54	7.46	7.98	8.51
Wyoming	7.61	7.32	9.33	7.05	8.44	12.66
Total	8.38	8.30	10.38	9.27	10.02	12.60

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	20.73	20.86	20.60	19.61	17.89	15.37
Alaska	9.81	11.41	11.66	11.29	10.87	10.03
Arizona	23.02	24.02	23.60	21.54	19.21	18.94
Arkansas	18.98	19.43	17.76	16.16	13.91	11.66
California	11.92	11.86	11.69	11.73	11.35	10.93
Colorado	13.17	13.68	14.38	11.28	9.25	8.07
Connecticut	21.54	19.36	18.26	17.41	14.40	12.54
Delaware	23.22	23.75	21.80	20.74	16.05	12.74
District of Columbia	17.40	17.38	16.93	16.63	14.34	12.16
Florida	24.76	24.94	24.67	22.91	21.53	19.02
Georgia	24.96	24.03	24.71	23.63	19.84	15.91
Hawaii	36.41	37.50	45.21	48.71	45.31	40.85
Idaho	9.53	10.93	10.69	10.08	9.21	8.86
Illinois	15.39	16.41	15.13	13.63	11.47	8.42
Indiana	15.25	17.74	17.99	17.88	13.44	10.66
Iowa	16.44	17.39	15.71	13.02	10.07	8.50
Kansas	19.63	20.74	19.33	17.65	14.49	13.64
Kentucky	21.00	22.21	23.11	21.52	17.11	12.94
Louisiana	15.86	16.50	15.46	14.98	13.55	11.26
Maine	21.77	22.85	20.77	17.13	16.58	17.33
Maryland	19.36	19.04	18.40	18.32	16.78	11.48
Massachusetts	13.26	13.82	13.29	12.18	12.74	12.71
Michigan	13.26	13.57	13.69	12.54	10.54	8.89
Minnesota	12.68	12.93	13.22	13.46	10.59	8.85
Mississippi	15.36	15.79	14.84	14.40	12.92	10.53
Missouri	23.90	25.52	24.26	20.79	17.02	12.66
Montana	11.11	11.86	11.75	10.06	8.48	8.25
Nebraska	15.57	15.66	14.76	12.18	10.32	9.15
Nevada	16.14	16.41	16.72	15.51	14.34	13.30
New Hampshire	22.91	22.68	19.23	16.48	15.12	15.10
New Jersey	12.30	12.42	11.96	11.35	9.56	7.33
New Mexico	14.85	14.92	14.55	11.79	9.92	8.92
New York	17.50	17.30	17.09	16.26	12.68	10.19
North Carolina	21.77	21.94	21.14	20.97	17.62	14.25
North Dakota	16.93	19.37	21.03	17.34	10.19	8.59
Ohio	24.33	25.48	23.85	19.97	13.50	9.15
Oklahoma	25.17	26.60	23.07	19.17	15.76	12.21
Oregon	14.45	17.09	16.20	15.54	14.00	11.78
Pennsylvania	18.26	18.56	17.76	15.77	13.63	10.81
Rhode Island	21.00	20.94	19.74	17.85	15.79	13.88
South Carolina	23.95	22.77	24.65	24.58	21.23	16.92
South Dakota	14.36	14.99	14.53	12.35	9.18	8.46
Tennessee	17.34	19.64	17.59	16.13	14.17	10.41
Texas	20.90	21.08	18.26	16.56	15.76	11.59
Utah	10.89	10.84	10.69	9.90	9.54	9.98
Vermont	23.16	23.04	21.69	19.41	15.81	13.73
Virginia	19.54	21.20	20.34	19.54	15.69	11.62
Washington	14.48	17.17	16.98	16.72	14.22	12.22
West Virginia	17.56	19.08	19.83	17.05	12.88	10.93
Wisconsin	12.94	14.20	13.41	13.24	9.38	6.93
Wyoming	15.66	16.07	15.70	11.34	9.65	9.49
Total	16.40	16.89	16.28	15.07	12.73	10.44

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2015		
	March	February	January
Alabama	12.15	12.21	12.80
Alaska	9.68	9.64	9.51
Arizona	18.94	18.88	14.36
Arkansas	9.99	10.90	10.65
California	11.29	11.53	11.68
Colorado	8.50	7.97	8.05
Connecticut	11.00	11.10	11.67
Delaware	11.27	11.33	11.23
District of Columbia	11.94	10.50	11.34
Florida	16.40	16.15	16.83
Georgia	12.21	11.05	11.66
Hawaii	39.78	38.87	35.07
Idaho	9.12	8.79	8.64
Illinois	7.45	6.46	7.30
Indiana	9.24	7.55	8.13
Iowa	7.75	7.14	7.52
Kansas	9.74	8.59	9.20
Kentucky	8.96	8.92	9.48
Louisiana	8.83	9.21	9.34
Maine	17.52	17.45	17.91
Maryland	10.71	10.10	11.18
Massachusetts	12.44	13.59	14.51
Michigan	8.37	8.39	8.61
Minnesota	9.45	8.23	8.56
Mississippi	8.23	8.25	8.14
Missouri	9.26	9.63	9.45
Montana	8.06	8.21	8.39
Nebraska	7.91	7.89	8.31
Nevada	11.84	11.40	10.42
New Hampshire	15.33	16.20	17.43
New Jersey	7.49	7.82	7.81
New Mexico	7.56	7.37	8.05
New York	9.34	9.79	10.51
North Carolina	10.08	8.93	10.05
North Dakota	7.52	7.02	7.85
Ohio	7.76	7.54	7.91
Oklahoma	7.52	8.07	7.83
Oregon	13.23	12.37	11.18
Pennsylvania	10.03	10.31	10.53
Rhode Island	13.07	12.93	13.23
South Carolina	10.67	8.83	10.20
South Dakota	8.04	7.58	7.71
Tennessee	7.57	8.47	8.72
Texas	7.93	7.94	8.63
Utah	9.99	10.40	9.44
Vermont	13.09	13.00	13.79
Virginia	10.17	9.31	10.81
Washington	12.05	11.82	11.45
West Virginia	9.90	9.79	9.80
Wisconsin	8.38	8.11	8.60
Wyoming	8.78	8.98	8.77
Total	9.28	9.08	9.50

^R Revised data.

^{NA} Not available.

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

Sources: 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, 2015-2017
(dollars per thousand cubic feet)

State	2017	2016				
	January	Total	December	November	October	September
Alabama	11.38	NA	11.25	NA	11.95	R11.82
Alaska	8.78	8.34	8.75	8.68	8.85	8.76
Arizona	8.19	8.80	8.00	8.19	8.49	8.61
Arkansas	7.74	NA	NA	NA	7.00	6.87
California	9.64	8.44	9.98	9.29	9.09	9.17
Colorado	6.56	6.44	6.19	6.63	8.03	8.45
Connecticut	8.62	NA	7.93	8.61	10.00	10.65
Delaware	9.68	9.58	9.88	10.37	11.42	11.86
District of Columbia	NA	NA	NA	NA	9.76	11.67
Florida	11.19	10.58	11.04	10.77	10.79	10.72
Georgia	8.10	7.66	7.32	8.50	8.99	9.22
Hawaii	28.33	27.02	27.61	25.04	27.71	27.32
Idaho	6.34	7.10	6.48	6.48	6.97	7.67
Illinois	NA	NA	6.44	8.08	9.03	12.30
Indiana	7.07	NA	5.66	7.29	7.25	9.50
Iowa	6.45	NA	5.95	6.47	6.85	NA
Kansas	8.41	NA	7.60	8.48	11.26	13.52
Kentucky	7.76	7.85	7.45	8.89	10.76	11.27
Louisiana	NA	NA	8.90	8.30	8.55	8.37
Maine	11.54	10.70	11.05	10.33	10.35	11.27
Maryland	9.59	9.06	8.94	10.21	11.04	11.95
Massachusetts	9.77	9.47	10.06	9.97	9.53	9.72
Michigan	6.62	6.86	6.57	6.92	7.56	9.00
Minnesota	NA	NA	6.29	6.24	6.75	7.74
Mississippi	NA	7.85	8.15	8.62	8.15	7.60
Missouri	7.24	7.91	7.72	9.22	9.61	9.92
Montana	6.70	7.09	6.69	7.25	7.62	8.95
Nebraska	6.30	5.47	5.81	5.89	5.79	5.95
Nevada	5.09	6.84	5.37	5.78	6.24	6.87
New Hampshire	11.26	11.36	11.91	11.98	13.58	16.21
New Jersey	9.58	7.94	8.61	9.24	8.79	8.74
New Mexico	6.18	5.76	6.13	6.68	6.94	7.44
New York	6.78	6.09	6.43	5.62	5.57	5.27
North Carolina	8.79	NA	8.38	8.07	7.98	8.21
North Dakota	5.73	5.45	5.43	5.60	5.82	6.74
Ohio	6.07	5.79	5.73	6.07	7.23	7.30
Oklahoma	6.01	NA	6.88	NA	14.50	14.80
Oregon	8.03	NA	7.84	9.11	9.05	9.66
Pennsylvania	8.35	8.09	7.88	8.24	9.09	10.94
Rhode Island	10.02	11.16	10.27	11.48	14.53	16.35
South Carolina	10.47	8.45	9.51	9.05	9.06	8.59
South Dakota	5.82	5.65	5.73	5.98	6.31	7.17
Tennessee	8.40	NA	8.21	9.04	NA	9.07
Texas	7.54	6.87	7.58	8.22	R8.49	8.13
Utah	7.29	7.43	7.65	7.50	6.71	6.84
Vermont	8.07	6.63	7.48	7.07	6.19	6.33
Virginia	NA	NA	7.75	NA	7.89	8.84
Washington	7.96	NA	7.87	8.31	8.49	9.14
West Virginia	7.15	7.76	7.11	7.52	8.73	10.01
Wisconsin	7.05	6.29	6.50	6.48	5.87	6.56
Wyoming	6.56	6.52	R6.51	6.74	R6.83	R7.11
Total	7.58	7.25	7.24	7.59	R7.94	8.27

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	11.88	11.74	11.31	10.62	10.63	10.20
Alaska	8.78	9.07	8.41	8.00	7.90	7.87
Arizona	8.62	8.72	8.70	8.78	9.07	9.74
Arkansas	7.28	7.02	7.35	7.23	6.97	7.23
California	8.76	8.08	7.44	7.35	7.19	8.18
Colorado	9.30	8.39	7.65	6.16	5.98	5.94
Connecticut	11.75	11.16	11.82	9.87	9.37	7.93
Delaware	12.11	11.51	10.87	10.03	9.33	8.79
District of Columbia	12.32	12.12	11.31	10.24	10.24	10.21
Florida	10.49	10.46	10.40	10.18	10.27	10.48
Georgia	9.27	9.05	8.44	8.11	7.89	7.33
Hawaii	25.57	25.24	32.82	30.04	28.09	27.26
Idaho	7.62	7.70	7.79	7.69	7.80	7.59
Illinois	NA	12.25	10.92	9.47	6.99	6.50
Indiana	10.00	10.99	9.37	7.09	NA	6.94
Iowa	8.13	7.81	7.11	5.81	5.54	5.80
Kansas	13.72	12.86	12.41	NA	NA	8.91
Kentucky	11.97	10.99	10.72	9.14	7.96	7.07
Louisiana	8.35	NA	7.26	7.33	7.19	7.77
Maine	10.50	10.46	10.04	9.54	9.71	10.79
Maryland	11.65	11.50	9.79	8.22	8.32	8.82
Massachusetts	9.79	9.34	8.48	9.21	9.44	9.13
Michigan	9.22	8.71	8.17	7.04	6.54	6.54
Minnesota	7.78	8.14	7.39	NA	6.17	6.50
Mississippi	7.53	7.65	7.08	7.56	8.09	7.87
Missouri	10.48	10.40	9.41	8.56	7.93	7.23
Montana	9.08	8.59	7.74	6.93	6.64	6.92
Nebraska	6.02	5.32	5.08	4.73	5.00	5.39
Nevada	6.89	7.22	7.08	7.04	7.25	7.59
New Hampshire	16.40	16.48	13.28	11.22	9.96	9.55
New Jersey	8.72	8.68	7.72	7.15	6.80	7.50
New Mexico	7.25	6.94	6.14	5.54	5.33	5.27
New York	5.26	5.54	5.72	5.98	6.16	6.39
North Carolina	NA	8.79	8.54	8.04	7.80	8.56
North Dakota	7.30	7.01	6.69	5.37	4.62	5.21
Ohio	8.13	7.56	6.96	6.10	5.30	5.27
Oklahoma	15.07	13.84	12.34	10.91	8.11	6.80
Oregon	10.18	NA	11.57	10.74	9.83	9.42
Pennsylvania	10.76	10.99	10.56	8.85	8.06	8.16
Rhode Island	15.78	15.43	13.58	11.51	10.79	10.32
South Carolina	8.52	8.74	7.82	7.46	8.39	8.39
South Dakota	7.91	6.99	6.47	5.08	4.95	5.60
Tennessee	9.49	8.68	8.28	7.60	7.59	7.01
Texas	8.24	7.50	6.70	6.82	6.12	6.15
Utah	7.10	7.01	6.84	6.77	7.37	7.91
Vermont	5.59	5.87	5.51	6.71	6.60	6.22
Virginia	8.57	8.36	7.81	7.32	6.72	7.26
Washington	9.54	9.06	NA	7.82	7.73	7.76
West Virginia	10.29	10.16	9.80	9.02	7.90	7.58
Wisconsin	6.55	6.98	5.26	5.30	5.98	6.07
Wyoming	R6.80	R6.90	R7.01	R6.45	R6.46	R6.47
Total	8.25	8.11	R7.70	7.35	6.94	7.05

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	9.85	9.97	11.26	10.95	11.70	11.63
Alaska	7.87	7.88	8.01	7.54	7.59	7.86
Arizona	9.32	8.94	10.53	9.17	9.36	10.15
Arkansas	6.86	7.28	8.43	7.43	8.01	7.86
California	8.49	8.04	8.04	8.29	7.25	7.75
Colorado	5.97	5.81	7.47	6.10	6.40	7.73
Connecticut	7.29	NA	8.60	8.22	8.51	9.57
Delaware	8.58	8.75	10.70	9.15	10.82	12.54
District of Columbia	9.30	9.50	11.07	9.59	10.81	11.19
Florida	10.61	10.69	10.92	11.05	10.83	10.74
Georgia	6.98	6.58	8.58	7.88	9.81	8.74
Hawaii	23.66	24.18	31.17	28.72	28.13	27.06
Idaho	7.20	7.08	7.59	7.10	6.91	7.63
Illinois	5.88	5.54	7.29	6.03	6.66	8.26
Indiana	5.59	5.27	7.61	6.19	6.07	6.21
Iowa	5.40	5.35	6.50	5.70	6.43	6.50
Kansas	7.22	6.72	8.87	7.11	7.28	9.43
Kentucky	6.36	6.70	8.75	7.69	8.58	9.37
Louisiana	7.77	8.10	8.07	8.01	7.80	7.77
Maine	11.16	11.36	14.16	11.11	10.30	8.48
Maryland	8.14	8.37	9.80	10.23	9.37	9.78
Massachusetts	9.49	9.33	10.81	9.99	8.56	7.35
Michigan	6.61	6.54	7.51	6.61	6.85	7.48
Minnesota	6.09	6.55	7.31	6.12	6.21	6.44
Mississippi	7.59	7.98	7.86	7.76	8.02	7.85
Missouri	6.96	7.10	9.14	7.87	9.85	11.05
Montana	6.87	6.76	8.13	6.85	7.32	8.54
Nebraska	5.47	5.42	6.40	5.23	5.55	5.78
Nevada	7.48	7.34	8.66	7.37	7.82	8.58
New Hampshire	10.47	11.46	13.63	12.39	11.15	12.30
New Jersey	7.66	7.76	8.50	8.22	8.64	8.08
New Mexico	5.09	5.14	6.32	5.28	6.09	7.67
New York	6.58	6.57	6.85	6.78	6.32	6.24
North Carolina	6.99	6.65	8.27	9.83	8.40	7.96
North Dakota	5.16	5.20	6.62	5.17	5.61	6.11
Ohio	5.25	5.26	6.39	5.33	5.81	6.55
Oklahoma	5.43	5.40	8.12	6.07	10.65	14.04
Oregon	9.37	8.84	10.09	9.36	8.64	10.49
Pennsylvania	7.31	7.14	9.32	8.07	8.21	8.80
Rhode Island	10.10	10.37	11.99	10.97	12.89	15.76
South Carolina	8.16	7.83	8.49	10.21	8.47	8.08
South Dakota	5.36	5.05	6.22	5.38	5.37	5.78
Tennessee	7.00	6.93	8.46	8.32	8.71	8.92
Texas	5.83	5.97	6.95	6.56	7.29	7.71
Utah	7.55	7.46	7.97	7.53	7.33	7.33
Vermont	7.00	7.14	7.89	7.37	6.65	6.20
Virginia	6.75	6.95	8.13	7.94	7.59	8.04
Washington	8.35	7.82	9.77	8.08	8.33	10.28
West Virginia	7.31	7.25	9.14	7.64	7.93	9.95
Wisconsin	6.36	6.59	6.78	6.25	6.47	5.49
Wyoming	6.35	6.26	7.43	6.22	6.67	7.18
Total	6.82	6.74	7.91	7.22	7.39	7.78

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	11.99	12.17	12.13	12.07	11.76	11.78
Alaska	7.21	8.23	8.14	8.62	7.85	8.03
Arizona	10.41	10.53	10.68	10.84	10.76	10.85
Arkansas	8.44	8.64	8.25	8.36	8.30	8.13
California	7.90	7.93	7.74	7.72	7.03	7.89
Colorado	9.17	9.33	9.41	8.39	7.63	8.18
Connecticut	10.58	9.56	9.33	10.13	9.47	8.57
Delaware	13.93	13.86	13.35	12.71	11.90	10.60
District of Columbia	11.02	10.71	10.68	11.24	11.80	11.78
Florida	11.27	11.02	10.86	11.03	10.56	10.62
Georgia	9.47	9.16	9.20	9.10	8.69	8.68
Hawaii	28.60	30.45	36.02	38.76	36.86	32.56
Idaho	7.98	8.10	8.39	7.97	7.91	7.92
Illinois	12.57	12.77	11.61	11.56	10.12	7.69
Indiana	8.06	10.80	10.94	11.19	10.32	8.89
Iowa	8.10	8.91	8.42	7.30	6.48	6.23
Kansas	12.52	12.03	12.47	12.49	10.84	10.24
Kentucky	10.49	11.27	11.91	11.47	10.90	10.01
Louisiana	7.74	7.85	7.87	7.83	7.65	7.76
Maine	11.27	12.08	11.96	11.22	13.00	15.39
Maryland	10.88	11.37	10.76	11.50	11.27	9.33
Massachusetts	8.52	8.99	8.93	8.34	10.24	11.21
Michigan	9.06	9.19	9.33	8.92	7.92	7.27
Minnesota	7.74	8.05	8.19	8.88	7.35	7.55
Mississippi	7.88	7.71	7.82	7.86	7.86	8.00
Missouri	10.74	11.89	11.91	11.17	10.38	9.34
Montana	9.73	9.81	9.79	9.16	8.28	8.24
Nebraska	6.29	6.11	5.90	5.39	5.42	6.24
Nevada	9.10	9.07	9.45	9.64	9.64	9.24
New Hampshire	14.76	14.78	13.74	12.55	12.26	12.85
New Jersey	8.21	8.76	8.64	8.33	7.84	7.31
New Mexico	7.65	7.65	7.52	6.77	6.89	6.16
New York	5.96	5.72	6.05	6.80	6.65	7.24
North Carolina	9.38	9.04	9.26	9.08	8.85	8.27
North Dakota	7.82	8.76	8.63	8.26	6.58	6.55
Ohio	7.71	7.73	7.85	7.53	7.03	6.41
Oklahoma	14.68	15.00	13.46	12.61	11.23	9.20
Oregon	10.43	11.45	11.07	11.27	11.09	10.00
Pennsylvania	11.00	11.14	12.00	11.18	10.65	9.79
Rhode Island	17.13	17.02	16.64	15.41	13.02	11.73
South Carolina	8.40	8.16	8.45	8.50	8.06	8.38
South Dakota	7.20	7.28	7.36	6.91	6.46	6.36
Tennessee	9.36	9.85	9.34	9.02	9.04	8.68
Texas	7.75	7.67	7.54	6.57	6.89	6.66
Utah	7.29	7.30	7.26	7.38	7.48	8.18
Vermont	6.97	6.91	6.10	6.78	8.53	9.02
Virginia	8.93	8.60	8.57	9.14	9.08	8.19
Washington	10.55	11.44	11.40	11.05	10.64	10.16
West Virginia	11.47	11.89	11.48	12.44	10.70	9.54
Wisconsin	6.32	6.58	6.56	6.88	5.65	5.21
Wyoming	7.84	7.58	7.77	7.92	7.69	7.61
Total	8.42	8.45	8.49	8.52	8.13	8.02

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2015		
	March	February	January
Alabama	10.69	10.81	10.95
Alaska	8.14	8.43	8.70
Arizona	11.41	11.76	10.73
Arkansas	8.40	8.93	8.87
California	8.70	8.58	8.96
Colorado	7.87	7.45	7.68
Connecticut	7.61	7.86	8.60
Delaware	10.26	10.11	10.19
District of Columbia	11.94	10.36	11.16
Florida	10.73	11.07	11.19
Georgia	8.02	8.15	8.44
Hawaii	31.08	30.83	25.72
Idaho	7.93	7.77	7.71
Illinois	6.82	6.15	6.83
Indiana	8.53	6.87	7.49
Iowa	6.44	6.22	6.55
Kansas	9.02	8.01	8.72
Kentucky	7.96	8.18	8.28
Louisiana	8.07	8.55	8.76
Maine	15.90	16.03	16.45
Maryland	9.22	9.38	9.83
Massachusetts	10.58	11.99	12.70
Michigan	7.35	7.52	7.69
Minnesota	8.35	7.17	7.88
Mississippi	7.66	7.88	8.04
Missouri	8.18	8.70	8.84
Montana	8.04	8.25	8.45
Nebraska	6.52	6.94	7.65
Nevada	8.94	8.82	8.60
New Hampshire	13.46	14.33	15.54
New Jersey	8.55	8.74	9.05
New Mexico	5.78	5.92	6.63
New York	7.11	7.18	7.52
North Carolina	7.17	7.27	8.28
North Dakota	6.76	6.78	7.41
Ohio	6.22	6.21	6.45
Oklahoma	6.60	7.01	6.95
Oregon	10.74	10.45	10.07
Pennsylvania	9.12	9.27	9.27
Rhode Island	11.13	11.11	11.23
South Carolina	7.86	8.15	8.96
South Dakota	6.54	6.32	6.48
Tennessee	7.33	8.21	8.58
Texas	6.41	6.54	7.25
Utah	8.51	8.77	8.23
Vermont	8.88	8.94	8.93
Virginia	7.64	7.66	8.59
Washington	10.12	10.14	10.11
West Virginia	8.97	8.88	8.87
Wisconsin	7.20	7.42	7.53
Wyoming	7.87	8.06	7.59
Total	7.84	7.81	8.14

^R Revised data.

^{NA} Not available.

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

Sources: 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, 2015-2017
(dollars per thousand cubic feet)

State	2017	2016				
	January	Total	December	November	October	September
Alabama	5.08	NA	NA	4.32	4.24	NA
Alaska	6.99	5.06	5.21	4.83	4.53	4.45
Arizona	6.21	5.75	5.89	5.77	5.56	5.51
Arkansas	6.73	5.65	6.61	5.72	4.70	5.17
California	8.45	6.90	8.58	7.59	7.38	7.47
Colorado	5.35	NA	4.79	5.17	NA	NA
Connecticut	7.25	6.09	6.09	5.63	5.98	6.08
Delaware	8.93	NA	9.10	NA	NA	NA
District of Columbia	--	--	--	--	--	--
Florida	7.06	5.71	5.54	5.71	6.07	5.29
Georgia	5.41	4.01	4.76	4.28	4.33	4.42
Hawaii	16.90	15.70	16.57	16.80	15.85	15.65
Idaho	4.56	5.19	4.51	4.61	4.62	5.40
Illinois	6.13	NA	5.16	5.76	5.66	NA
Indiana	5.80	4.85	5.15	5.23	4.91	5.72
Iowa	5.05	NA	4.97	4.51	4.76	4.78
Kansas	6.16	NA	5.22	4.54	NA	3.80
Kentucky	4.87	3.67	4.38	4.17	4.05	3.87
Louisiana	4.45	NA	NA	NA	3.50	3.33
Maine	9.33	7.69	9.45	8.83	5.99	6.13
Maryland	9.67	NA	9.04	9.55	10.78	NA
Massachusetts	8.80	7.94	9.03	8.76	7.46	6.51
Michigan	5.82	NA	5.71	5.62	6.20	NA
Minnesota	5.01	4.12	4.54	4.27	4.20	4.09
Mississippi	5.67	4.38	4.74	4.85	4.63	4.54
Missouri	7.45	6.04	6.68	6.56	5.79	5.91
Montana	6.17	5.65	5.76	5.54	5.45	5.67
Nebraska	4.69	3.95	4.42	4.17	3.92	3.99
Nevada	4.35	5.89	4.59	5.06	5.20	5.87
New Hampshire	10.13	8.59	10.11	9.06	7.58	8.06
New Jersey	NA	NA	7.94	7.89	7.00	7.57
New Mexico	4.96	4.17	4.85	4.28	4.71	4.53
New York	6.81	5.97	6.17	5.71	5.58	5.30
North Carolina	6.69	5.39	6.07	5.42	5.23	5.23
North Dakota	3.93	2.57	3.38	2.80	2.86	2.82
Ohio	5.34	NA	5.14	5.66	6.30	NA
Oklahoma	5.53	NA	6.11	9.58	8.10	8.82
Oregon	5.28	5.49	5.31	5.51	5.46	5.43
Pennsylvania	7.88	NA	7.72	8.32	8.43	8.62
Rhode Island	8.06	8.70	8.00	8.83	9.01	9.16
South Carolina	6.20	4.46	5.63	5.06	4.75	4.63
South Dakota	5.36	4.78	4.78	4.94	5.09	6.12
Tennessee	5.86	4.40	5.27	4.76	4.67	4.46
Texas	3.84	2.65	3.35	2.94	3.22	3.16
Utah	6.02	5.51	5.88	5.17	4.96	4.93
Vermont	6.02	5.20	5.68	5.20	5.13	5.14
Virginia	5.11	4.16	4.51	4.20	4.15	4.20
Washington	7.19	7.39	7.30	7.17	7.12	7.26
West Virginia	2.14	NA	2.22	2.12	2.21	2.06
Wisconsin	6.31	5.03	5.64	5.33	4.63	4.60
Wyoming	NA	NA	NA	NA	4.12	NA
Total	4.90	3.51	4.32	3.86	3.87	3.73

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	3.81	3.98	3.34	2.97	3.22	3.21
Alaska	5.64	5.17	4.58	3.69	6.36	6.75
Arizona	6.02	5.76	4.93	5.59	5.72	5.86
Arkansas	5.96	5.35	5.46	5.29	5.35	5.85
California	7.02	6.40	5.89	5.93	5.79	6.77
Colorado	7.03	6.21	5.50	4.28	4.39	4.99
Connecticut	6.17	6.19	6.05	6.58	6.84	5.84
Delaware	10.31	NA	8.93	8.62	7.85	8.29
District of Columbia	--	--	--	--	--	--
Florida	5.71	5.39	5.25	5.14	5.66	6.22
Georgia	4.25	4.14	3.54	3.50	3.45	3.46
Hawaii	16.03	16.51	16.92	15.05	14.45	13.73
Idaho	5.46	5.43	5.46	5.44	5.50	5.46
Illinois	7.08	NA	5.43	NA	4.89	4.69
Indiana	5.93	5.70	4.96	4.10	4.39	4.67
Iowa	4.18	4.49	4.28	3.92	4.28	4.68
Kansas	3.64	3.45	3.27	3.35	3.40	4.25
Kentucky	3.59	3.89	2.91	3.26	2.87	3.38
Louisiana	3.15	3.37	2.47	2.55	2.48	2.39
Maine	5.99	5.58	5.55	5.78	8.46	8.51
Maryland	NA	13.92	9.88	7.42	7.63	8.62
Massachusetts	6.80	6.76	6.59	7.79	8.04	7.98
Michigan	6.06	6.39	6.00	5.76	5.59	5.61
Minnesota	4.09	4.11	3.71	4.25	3.35	3.65
Mississippi	4.52	3.89	3.88	3.75	4.03	4.31
Missouri	6.09	6.70	5.78	5.29	5.77	5.84
Montana	6.32	4.84	6.18	4.82	5.40	5.52
Nebraska	3.89	3.60	3.29	3.20	3.69	4.23
Nevada	5.79	6.51	6.10	5.99	6.21	6.73
New Hampshire	8.21	8.24	7.14	7.48	7.90	7.98
New Jersey	NA	NA	7.12	6.12	5.60	7.52
New Mexico	4.27	3.91	3.49	3.38	3.45	3.75
New York	5.75	5.61	5.60	5.77	5.93	6.25
North Carolina	5.16	5.11	5.05	5.07	5.29	5.66
North Dakota	3.68	2.98	2.09	1.91	2.09	2.10
Ohio	6.71	NA	NA	5.53	NA	4.20
Oklahoma	NA	NA	NA	9.14	8.07	5.61
Oregon	5.43	5.29	6.49	5.14	5.24	5.59
Pennsylvania	5.77	9.13	NA	NA	6.72	7.21
Rhode Island	9.22	8.91	8.76	8.91	8.77	8.40
South Carolina	4.50	4.73	3.80	3.78	R3.41	3.79
South Dakota	6.01	5.20	4.78	4.33	4.10	4.50
Tennessee	4.31	4.38	3.65	3.75	3.80	4.24
Texas	3.01	2.98	2.16	2.14	2.08	1.88
Utah	5.00	5.02	5.10	5.14	5.68	5.97
Vermont	5.31	5.61	4.97	5.13	4.93	4.96
Virginia	4.28	3.91	4.06	3.84	3.56	4.13
Washington	7.69	7.67	8.07	7.25	7.31	7.39
West Virginia	2.00	2.03	2.11	2.02	2.76	NA
Wisconsin	4.28	4.63	3.44	3.97	5.05	4.94
Wyoming	2.77	NA	NA	NA	3.87	3.56
Total	3.58	3.56	2.89	2.91	R2.99	3.04

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2015-2017

(dollars per thousand cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	3.66	3.65	4.08	3.61	3.45	3.61
Alaska	6.74	4.88	6.86	6.84	6.77	6.85
Arizona	6.17	6.46	6.78	6.39	6.30	6.32
Arkansas	5.86	5.96	6.91	5.64	5.99	6.43
California	7.01	6.66	6.41	6.99	5.83	5.94
Colorado	4.53	4.24	5.74	4.52	5.20	6.03
Connecticut	5.71	6.10	6.35	6.58	5.85	5.75
Delaware	7.98	8.14	10.11	8.32	9.62	11.15
District of Columbia	--	--	--	--	--	--
Florida	6.05	6.30	6.43	6.10	6.22	6.30
Georgia	3.95	4.02	4.42	3.86	3.76	4.14
Hawaii	14.45	16.17	19.03	15.06	17.68	17.99
Idaho	5.46	5.41	5.83	5.40	4.93	5.77
Illinois	4.50	4.24	5.47	4.65	4.59	5.39
Indiana	4.85	4.36	6.36	4.79	4.42	4.27
Iowa	NA	5.30	5.28	4.61	5.26	4.56
Kansas	6.19	6.68	4.24	5.61	4.62	4.18
Kentucky	3.71	3.86	4.45	3.65	3.51	3.86
Louisiana	2.92	3.06	3.31	2.98	2.74	3.14
Maine	8.52	8.46	8.95	8.50	8.20	4.56
Maryland	8.52	8.37	9.70	10.84	10.90	9.52
Massachusetts	8.36	8.21	9.22	8.90	7.31	5.51
Michigan	5.96	5.82	6.60	5.78	5.76	6.33
Minnesota	4.22	4.37	4.87	4.24	4.13	4.24
Mississippi	4.55	4.62	4.75	4.18	4.31	4.27
Missouri	6.02	5.80	7.58	6.91	6.97	7.17
Montana	6.27	5.88	6.53	5.54	6.16	5.87
Nebraska	4.23	4.32	4.56	4.79	4.08	4.12
Nevada	6.65	6.49	8.07	6.61	7.12	7.72
New Hampshire	8.96	9.60	10.33	9.87	7.53	5.48
New Jersey	6.81	7.02	8.09	7.52	7.09	7.34
New Mexico	4.05	4.24	4.62	4.26	4.60	4.69
New York	6.29	6.28	6.62	6.27	6.01	5.57
North Carolina	5.57	5.30	6.34	5.87	5.73	6.04
North Dakota	2.83	2.43	3.13	2.88	2.58	2.76
Ohio	4.29	4.46	5.35	4.65	4.74	5.61
Oklahoma	5.42	9.95	7.51	6.18	7.90	9.90
Oregon	5.59	5.50	6.28	5.50	5.58	6.41
Pennsylvania	6.81	7.07	8.59	7.62	8.47	8.93
Rhode Island	8.44	8.61	9.26	8.22	9.48	9.92
South Carolina	4.46	5.12	4.64	4.25	4.09	4.26
South Dakota	4.51	4.83	5.34	4.56	4.56	5.13
Tennessee	4.73	4.65	5.06	4.58	4.47	4.45
Texas	2.39	2.45	2.89	2.38	2.28	2.77
Utah	6.44	6.07	5.93	6.01	5.35	5.24
Vermont	5.17	5.14	5.50	5.81	5.42	5.58
Virginia	4.22	4.51	5.02	4.48	3.95	4.69
Washington	7.64	7.30	8.91	7.30	7.89	8.70
West Virginia	2.35	2.17	3.17	2.58	2.13	3.21
Wisconsin	5.45	5.74	5.65	5.43	5.37	4.69
Wyoming	3.66	3.76	5.07	4.01	4.63	4.56
Total	3.63	3.62	3.91	3.45	3.26	3.52

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	3.82	4.05	3.96	4.08	3.69	4.13
Alaska	6.83	6.82	6.78	6.84	6.86	6.70
Arizona	6.58	6.55	6.76	6.86	6.54	6.96
Arkansas	6.44	6.59	6.61	6.09	6.41	6.84
California	6.15	6.12	6.08	6.29	5.51	6.45
Colorado	6.22	6.65	7.39	6.58	5.32	5.49
Connecticut	6.58	5.64	5.86	6.01	6.18	6.77
Delaware	11.40	11.38	10.89	9.09	9.78	9.56
District of Columbia	--	--	--	--	--	--
Florida	6.09	6.04	6.70	5.78	5.88	6.05
Georgia	4.28	4.38	4.34	4.41	4.14	4.22
Hawaii	19.09	19.29	21.57	20.94	19.68	19.40
Idaho	5.93	6.09	6.10	5.85	5.86	5.93
Illinois	6.19	5.96	6.06	5.94	5.66	5.75
Indiana	5.21	5.85	6.29	5.70	6.14	9.14
Iowa	6.17	5.11	5.45	4.77	4.76	4.47
Kansas	3.90	3.95	4.00	4.08	4.17	4.43
Kentucky	3.94	4.13	4.43	4.60	4.27	4.51
Louisiana	3.29	3.47	3.44	3.39	2.93	3.22
Maine	4.72	4.81	4.68	4.61	5.50	14.71
Maryland	8.76	9.99	11.89	12.71	10.17	8.08
Massachusetts	6.26	6.91	6.66	6.90	8.73	9.67
Michigan	6.75	7.02	6.44	6.78	6.59	6.21
Minnesota	4.17	4.68	4.53	4.62	4.19	4.55
Mississippi	4.52	4.00	4.54	4.36	4.46	4.75
Missouri	7.96	7.29	7.88	7.52	7.33	7.95
Montana	7.00	5.93	6.41	4.89	6.49	7.00
Nebraska	4.27	4.33	4.27	3.83	4.13	5.53
Nevada	8.58	8.16	8.71	9.18	9.06	8.71
New Hampshire	5.10	6.05	6.14	7.16	8.31	10.89
New Jersey	8.31	8.75	8.19	8.13	7.82	7.87
New Mexico	4.70	4.60	4.53	4.44	4.11	4.52
New York	5.83	5.33	5.86	6.00	6.54	7.21
North Carolina	6.14	5.87	5.95	5.83	5.67	6.11
North Dakota	2.81	2.95	3.11	2.90	2.81	3.01
Ohio	6.64	6.09	5.40	7.24	5.71	5.28
Oklahoma	12.85	8.77	8.63	8.96	6.31	9.41
Oregon	6.38	6.39	6.30	6.25	6.29	6.25
Pennsylvania	10.37	10.35	10.06	10.21	9.59	8.25
Rhode Island	9.79	10.09	9.61	9.38	9.75	9.20
South Carolina	4.37	4.59	4.47	4.56	4.19	4.36
South Dakota	6.04	5.73	5.71	5.14	5.50	5.42
Tennessee	4.63	4.79	4.80	4.87	4.83	4.99
Texas	2.95	3.13	3.07	3.04	2.82	2.88
Utah	5.30	5.32	5.20	5.72	5.94	6.50
Vermont	4.65	4.53	5.90	5.17	5.23	5.29
Virginia	4.86	4.56	4.81	5.08	5.33	5.15
Washington	9.23	9.33	10.04	9.45	9.21	9.55
West Virginia	3.19	3.23	3.22	3.18	3.16	3.29
Wisconsin	4.56	4.91	4.54	5.07	4.42	4.46
Wyoming	4.75	4.75	4.63	5.20	5.02	5.36
Total	3.63	3.77	3.73	3.74	3.56	3.94

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2015		
	March	February	January
Alabama	4.69	4.95	4.66
Alaska	6.88	7.08	6.97
Arizona	7.15	7.51	7.25
Arkansas	7.70	7.90	7.88
California	6.89	6.77	7.68
Colorado	6.20	6.15	6.01
Connecticut	5.81	6.52	7.89
Delaware	10.20	10.25	9.91
District of Columbia	--	--	--
Florida	6.53	7.12	8.40
Georgia	5.02	4.98	5.34
Hawaii	18.66	18.33	20.25
Idaho	6.01	6.14	6.16
Illinois	5.74	5.13	6.02
Indiana	7.18	6.69	7.52
Iowa	5.67	5.63	6.40
Kansas	5.75	5.82	6.98
Kentucky	5.22	5.21	5.37
Louisiana	3.48	3.66	3.87
Maine	15.12	15.22	15.20
Maryland	8.81	9.64	10.06
Massachusetts	9.60	10.86	11.74
Michigan	6.70	6.98	7.06
Minnesota	5.82	5.83	5.89
Mississippi	5.75	5.49	6.16
Missouri	7.79	7.65	7.92
Montana	7.25	7.38	8.18
Nebraska	5.39	4.34	4.84
Nevada	8.32	8.27	7.94
New Hampshire	12.09	12.47	14.13
New Jersey	7.96	8.26	8.81
New Mexico	4.93	5.06	5.84
New York	7.21	7.05	7.43
North Carolina	6.69	7.52	7.06
North Dakota	3.77	3.86	3.92
Ohio	5.22	5.44	5.26
Oklahoma	6.57	7.40	7.62
Oregon	6.65	6.72	6.69
Pennsylvania	7.85	8.96	8.74
Rhode Island	9.00	9.01	9.12
South Carolina	4.96	5.99	5.77
South Dakota	5.31	5.52	6.04
Tennessee	5.69	5.75	6.18
Texas	3.00	3.10	3.37
Utah	6.72	6.74	6.65
Vermont	5.98	6.25	5.70
Virginia	5.32	5.28	5.76
Washington	8.91	9.40	9.63
West Virginia	3.49	3.37	3.79
Wisconsin	6.40	6.67	6.78
Wyoming	5.17	5.40	6.48
Total	4.43	4.71	4.87

^R Revised data.

-- Not applicable.

^{NA} Not available.

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

Sources: 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, 2015-2017
(dollars per thousand cubic feet)

State	2017	2016				
	January	Total	December	November	October	September
Alabama	W	W	W	W	W	W
Alaska	8.09	6.65	7.21	6.91	6.86	6.52
Arizona	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W
California	W	3.22	4.05	3.27	3.43	3.59
Colorado	W	W	W	W	W	W
Connecticut	8.10	3.67	5.49	3.34	2.45	2.92
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	4.92	3.86	W	W	W	W
Georgia	W	3.08	W	3.15	3.59	3.59
Hawaii	--	--	--	--	--	--
Idaho	--	2.92	4.05	4.66	4.78	3.38
Illinois	W	2.88	W	W	3.18	3.29
Indiana	W	W	W	W	W	W
Iowa	5.12	2.81	3.83	3.02	3.00	3.00
Kansas	4.92	3.48	5.05	3.28	3.96	3.52
Kentucky	W	W	W	W	W	W
Louisiana	W	2.76	W	W	W	W
Maine	W	W	W	--	W	W
Maryland	5.50	2.97	4.98	3.67	2.75	2.47
Massachusetts	W	3.22	7.03	4.59	3.36	2.97
Michigan	3.63	2.81	3.93	2.77	3.19	3.32
Minnesota	4.49	W	W	W	W	W
Mississippi	W	W	W	W	W	W
Missouri	3.43	W	W	W	W	W
Montana	2.36	--	--	--	--	--
Nebraska	5.61	3.31	4.75	3.17	3.54	3.70
Nevada	4.37	3.02	3.77	3.35	3.46	3.39
New Hampshire	W	W	W	W	W	W
New Jersey	4.06	2.20	4.01	2.45	1.86	1.70
New Mexico	4.02	3.07	4.21	3.06	3.30	3.43
New York	5.41	2.76	5.47	2.95	1.98	2.18
North Carolina	W	W	W	W	W	W
North Dakota	6.31	2.74	3.58	2.74	3.10	3.07
Ohio	3.84	2.36	3.41	2.32	2.30	2.59
Oklahoma	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Pennsylvania	4.12	1.95	3.52	2.10	1.29	1.51
Rhode Island	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W
South Dakota	--	2.62	3.92	2.50	3.38	3.39
Tennessee	3.82	2.61	3.44	2.84	3.15	2.91
Texas	3.47	2.67	3.44	2.71	3.24	3.13
Utah	W	W	W	W	W	W
Vermont	--	--	--	--	--	--
Virginia	W	W	W	W	W	W
Washington	4.95	W	W	W	W	W
West Virginia	W	W	5.87	2.83	1.69	1.97
Wisconsin	W	W	W	W	W	W
Wyoming	4.04	8.29	8.65	12.43	4,893.63	10.24
Total	4.32	2.99	4.16	3.14	3.24	3.19

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2016					
	August	July	June	May	April	March
Alabama	W	W	W	W	W	W
Alaska	6.49	6.81	7.10	6.43	6.47	6.34
Arizona	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W
California	3.45	3.48	2.98	W	2.47	2.59
Colorado	W	W	W	W	W	W
Connecticut	3.09	3.13	2.33	2.39	2.74	4.63
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	3.95	3.72	3.43	W	W	W
Georgia	3.33	3.30	3.03	2.44	2.40	2.23
Hawaii	--	--	--	--	--	--
Idaho	2.89	2.83	2.47	2.41	11.72	2.26
Illinois	3.07	3.05	W	2.25	2.24	2.31
Indiana	W	W	W	W	W	W
Iowa	2.94	2.83	2.63	2.10	2.61	2.23
Kansas	3.53	3.26	3.07	3.15	3.16	2.84
Kentucky	W	W	W	W	W	W
Louisiana	W	3.08	2.63	W	W	W
Maine	W	W	W	W	W	W
Maryland	2.97	2.94	3.01	2.50	2.40	2.69
Massachusetts	3.18	2.86	2.34	2.11	2.99	1.99
Michigan	3.12	3.04	2.75	2.28	2.31	2.14
Minnesota	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W
Missouri	W	W	W	W	W	W
Montana	--	--	--	--	--	--
Nebraska	3.48	3.41	3.32	2.77	2.44	2.34
Nevada	3.23	3.38	2.57	2.54	2.40	2.30
New Hampshire	W	W	W	W	W	W
New Jersey	1.92	2.09	2.13	1.95	1.76	1.62
New Mexico	3.30	3.31	2.87	2.47	2.69	2.56
New York	2.54	2.75	2.38	2.12	2.36	2.22
North Carolina	W	W	W	W	W	W
North Dakota	2.98	2.88	2.63	2.04	2.09	1.90
Ohio	2.55	2.80	2.32	2.03	2.01	1.63
Oklahoma	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Pennsylvania	1.68	1.86	1.90	1.65	1.61	1.43
Rhode Island	W	2.92	W	2.23	W	W
South Carolina	W	W	W	W	W	W
South Dakota	2.94	2.87	2.53	2.10	2.07	1.82
Tennessee	2.69	2.74	2.37	1.96	1.96	2.05
Texas	2.94	2.95	2.62	2.17	2.14	1.91
Utah	W	W	W	W	W	W
Vermont	--	--	--	--	--	--
Virginia	W	W	W	W	W	W
Washington	W	W	W	W	W	W
West Virginia	W	3.21	2.00	2.03	2.12	1.92
Wisconsin	W	W	W	W	W	W
Wyoming	5.57	--	17.60	12.15	5.88	4.39
Total	3.07	3.07	2.77	2.49	2.52	2.33

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	W	W	3.06	W	W	2.78
Alaska	6.43	6.47	5.40	5.44	5.48	5.45
Arizona	W	W	3.43	W	W	W
Arkansas	W	W	W	W	W	W
California	2.85	3.08	3.39	2.95	2.94	3.18
Colorado	W	W	3.81	W	W	W
Connecticut	5.63	6.12	4.73	5.06	5.14	3.17
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	W	W	4.41	3.98	3.90	4.31
Georgia	W	W	3.27	W	2.64	2.85
Hawaii	--	--	--	--	--	--
Idaho	2.25	2.67	2.89	2.41	2.72	2.92
Illinois	W	W	W	W	W	W
Indiana	W	W	W	W	W	W
Iowa	2.57	2.96	3.23	2.60	5.06	2.89
Kansas	4.22	4.26	3.95	4.66	4.03	4.88
Kentucky	3.35	W	W	W	2.50	W
Louisiana	W	W	W	W	W	W
Maine	W	W	W	W	W	W
Maryland	5.64	3.59	4.06	3.13	3.11	3.05
Massachusetts	3.46	4.73	4.38	2.53	3.62	4.31
Michigan	2.37	2.66	3.21	2.17	2.56	2.91
Minnesota	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W
Missouri	W	W	W	W	W	W
Montana	--	--	--	--	--	--
Nebraska	2.81	3.52	3.97	3.63	3.37	3.22
Nevada	2.78	2.98	3.34	3.00	2.85	3.24
New Hampshire	W	W	W	W	W	W
New Jersey	2.83	3.02	2.96	1.71	1.80	2.00
New Mexico	2.57	2.91	3.21	2.46	2.64	3.11
New York	3.41	3.76	3.51	2.96	2.69	2.60
North Carolina	W	W	W	W	W	W
North Dakota	2.22	2.45	2.89	2.07	2.08	2.67
Ohio	2.00	2.20	2.42	1.91	2.09	2.17
Oklahoma	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Pennsylvania	2.33	2.70	2.52	1.55	1.59	1.71
Rhode Island	W	W	W	W	3.50	3.74
South Carolina	W	W	W	W	W	W
South Dakota	2.08	2.57	3.31	2.25	2.92	2.90
Tennessee	2.33	2.58	2.74	2.33	2.31	2.47
Texas	2.19	2.53	2.88	2.23	2.30	2.66
Utah	W	2.81	W	W	W	W
Vermont	--	--	--	--	--	--
Virginia	W	W	3.55	W	W	W
Washington	W	W	W	W	W	W
West Virginia	2.07	2.22	W	1.52	1.90	W
Wisconsin	W	W	W	W	W	W
Wyoming	7.69	13.31	5.18	7.01	4.13	5.08
Total	2.83	3.17	3.37	2.71	2.78	3.03

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2015					
	September	August	July	June	May	April
Alabama	3.07	3.13	3.25	3.17	3.26	W
Alaska	5.48	5.21	5.19	5.14	4.86	5.47
Arizona	W	3.47	3.54	3.47	3.73	W
Arkansas	W	W	W	W	W	W
California	3.29	3.52	3.53	3.51	3.44	3.34
Colorado	W	W	W	W	W	W
Connecticut	3.08	2.69	2.48	2.19	2.30	2.99
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	4.46	4.45	4.43	4.52	4.39	W
Georgia	3.31	3.36	3.40	3.38	3.57	3.28
Hawaii	--	--	--	--	--	--
Idaho	3.01	2.92	2.85	2.74	3.08	3.05
Illinois	3.12	W	W	3.04	W	W
Indiana	W	W	W	W	W	W
Iowa	2.98	3.12	3.06	3.07	3.18	2.98
Kansas	3.68	3.70	3.52	3.68	4.33	4.32
Kentucky	W	W	W	W	W	W
Louisiana	W	3.20	W	W	W	W
Maine	W	W	W	W	W	W
Maryland	3.18	4.07	3.73	3.09	3.25	2.58
Massachusetts	4.14	3.08	2.57	3.18	3.16	3.36
Michigan	3.32	3.40	3.30	3.18	3.25	3.24
Minnesota	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W
Missouri	W	W	W	W	W	W
Montana	--	--	--	--	--	--
Nebraska	3.38	5.08	3.81	3.59	4.01	3.63
Nevada	3.30	3.38	3.43	3.43	3.21	3.27
New Hampshire	W	W	W	W	W	W
New Jersey	2.08	2.20	2.07	2.34	2.32	2.43
New Mexico	3.13	3.28	3.86	3.61	3.26	3.03
New York	2.51	2.61	2.56	2.71	2.76	2.82
North Carolina	W	W	W	W	W	W
North Dakota	3.09	3.03	2.87	2.70	2.71	2.75
Ohio	2.26	2.25	2.30	2.20	2.38	2.23
Oklahoma	W	W	W	W	W	W
Oregon	W	W	W	W	W	2.66
Pennsylvania	2.00	1.80	2.02	1.83	2.01	2.02
Rhode Island	2.78	2.42	2.40	1.96	2.15	3.41
South Carolina	W	W	W	W	W	W
South Dakota	3.31	4.23	3.78	3.53	3.06	3.46
Tennessee	2.61	2.71	2.74	2.75	2.28	2.66
Texas	2.88	3.01	3.03	2.98	3.02	2.82
Utah	W	W	W	W	W	W
Vermont	--	--	--	--	--	--
Virginia	W	W	W	W	2.82	W
Washington	W	W	W	W	W	3.50
West Virginia	W	1.94	2.07	2.48	2.41	W
Wisconsin	W	W	W	W	W	W
Wyoming	4.46	6.95	5.28	4.77	3.80	15.03
Total	3.19	3.22	3.23	3.24	3.28	3.23

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2015-2017
(dollars per thousand cubic feet) – continued

State	2015		
	March	February	January
Alabama	W	W	W
Alaska	5.41	5.49	5.95
Arizona	W	W	W
Arkansas	W	W	W
California	3.50	3.73	3.91
Colorado	W	W	4.72
Connecticut	6.91	12.82	8.77
Delaware	--	--	--
District of Columbia	--	--	--
Florida	W	4.78	W
Georgia	3.42	W	W
Hawaii	--	--	--
Idaho	16.18	--	3.03
Illinois	W	4.81	W
Indiana	W	W	W
Iowa	3.43	4.70	4.98
Kansas	4.06	4.50	5.25
Kentucky	W	W	W
Louisiana	W	W	W
Maine	W	W	W
Maryland	W	W	6.65
Massachusetts	8.64	13.60	12.21
Michigan	3.57	4.11	3.61
Minnesota	W	W	W
Mississippi	W	W	W
Missouri	W	W	W
Montana	--	--	--
Nebraska	4.02	4.90	4.48
Nevada	3.45	3.54	4.10
New Hampshire	W	W	W
New Jersey	3.67	9.88	5.80
New Mexico	3.09	3.11	3.71
New York	4.48	9.93	6.24
North Carolina	W	W	W
North Dakota	2.73	2.93	2.74
Ohio	2.75	3.31	2.92
Oklahoma	W	W	W
Oregon	2.85	3.12	3.24
Pennsylvania	3.06	8.29	4.28
Rhode Island	W	W	9.99
South Carolina	W	W	W
South Dakota	2.77	3.05	2.94
Tennessee	3.35	3.27	3.59
Texas	3.02	3.09	3.26
Utah	W	3.37	W
Vermont	--	--	--
Virginia	W	W	W
Washington	4.41	3.46	4.63
West Virginia	2.64	W	2.95
Wisconsin	W	W	W
Wyoming	5.54	9.15	5.89
Total	3.71	4.99	4.29

^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: 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, 2015-2017

State	2017						2016		
	January			Total			December		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	80.5	26.6	100.0	NA	NA	100.0	76.2	NA
Alaska	100.0	99.2	100.0	100.0	98.4	100.0	100.0	99.1	100.0
Arizona	100.0	85.2	13.6	100.0	82.7	15.9	100.0	83.6	14.1
Arkansas	100.0	NA	1.8	100.0	NA	1.5	100.0	NA	1.4
California	NA	56.7	4.8	95.1	51.2	3.9	95.4	54.1	4.1
Colorado	NA	94.6	8.9	100.0	94.1	NA	100.0	95.6	9.4
Connecticut	96.7	79.9	52.0	96.2	NA	49.4	96.4	77.6	52.9
Delaware	100.0	44.7	0.6	100.0	37.2	NA	100.0	36.1	0.5
District of Columbia	NA	NA	0.0	NA	NA	0.0	73.8	NA	0.0
Florida	NA	29.5	2.8	97.6	R29.9	3.3	97.5	R29.3	3.3
Georgia	100.0	100.0	25.7	NA	100.0	22.5	100.0	100.0	24.4
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	87.0	2.7	100.0	75.0	2.4	100.0	85.4	2.6
Illinois	86.4	NA	9.8	86.7	NA	NA	88.2	40.1	9.7
Indiana	95.9	68.8	2.7	NA	NA	1.8	96.0	70.8	2.3
Iowa	100.0	74.7	4.5	100.0	NA	NA	100.0	74.0	4.2
Kansas	100.0	67.6	1.5	NA	NA	NA	NA	64.4	1.9
Kentucky	96.7	83.2	18.7	96.9	78.0	17.6	97.5	82.4	18.1
Louisiana	100.0	NA	NA	100.0	NA	NA	100.0	76.8	NA
Maine	100.0	63.4	10.9	NA	NA	NA	100.0	61.2	12.0
Maryland	NA	32.5	13.5	NA	25.9	NA	NA	29.9	NA
Massachusetts	98.5	48.1	27.4	98.9	41.6	23.0	98.7	46.4	23.5
Michigan	93.3	62.8	10.7	92.9	55.3	NA	93.3	60.8	9.0
Minnesota	NA	NA	21.4	100.0	NA	NA	100.0	89.6	18.3
Mississippi	NA	NA	9.7	NA	84.2	9.6	100.0	86.5	9.2
Missouri	100.0	79.0	NA	100.0	71.8	NA	100.0	77.5	15.6
Montana	99.4	55.9	2.7	99.6	47.7	NA	99.5	49.3	NA
Nebraska	87.7	60.4	8.2	87.5	58.3	6.1	86.0	56.9	6.4
Nevada	100.0	69.1	18.7	100.0	58.5	NA	100.0	65.4	NA
New Hampshire	100.0	57.0	7.4	100.0	53.7	NA	100.0	54.5	6.7
New Jersey	94.4	NA	NA	94.3	37.3	NA	94.4	39.2	9.1
New Mexico	100.0	57.7	5.6	100.0	54.2	9.2	100.0	52.4	10.1
New York	100.0	100.0	7.6	100.0	100.0	5.8	100.0	100.0	5.9
North Carolina	100.0	87.4	14.1	100.0	NA	10.9	100.0	85.6	12.3
North Dakota	100.0	94.5	35.6	100.0	92.8	30.3	100.0	94.2	26.9
Ohio	100.0	100.0	2.3	100.0	100.0	NA	100.0	100.0	2.2
Oklahoma	100.0	53.4	1.4	100.0	NA	NA	100.0	38.0	0.7
Oregon	100.0	95.8	17.9	100.0	NA	15.4	100.0	95.6	17.0
Pennsylvania	NA	41.0	1.9	87.6	37.3	NA	88.0	40.3	R1.6
Rhode Island	100.0	54.6	4.0	100.0	52.8	3.3	100.0	54.5	3.6
South Carolina	100.0	92.9	40.5	100.0	91.6	R41.2	100.0	92.6	39.1
South Dakota	100.0	85.0	6.6	100.0	80.5	4.5	100.0	83.3	6.7
Tennessee	100.0	91.6	24.4	100.0	NA	26.6	100.0	89.6	24.6
Texas	NA	NA	NA	NA	NA	NA	99.7	74.9	37.1
Utah	100.0	80.8	4.2	100.0	76.1	5.5	100.0	80.8	5.0
Vermont	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0	100.0
Virginia	NA	NA	13.5	NA	NA	NA	NA	62.3	14.3
Washington	100.0	89.5	9.0	NA	NA	6.3	100.0	90.3	8.0
West Virginia	100.0	60.6	9.0	100.0	50.8	NA	100.0	60.6	10.8
Wisconsin	100.0	79.0	21.5	100.0	70.9	16.0	100.0	77.5	19.7
Wyoming	71.7	51.3	NA	NA	52.3	NA	74.6	R58.6	NA
Total	96.0	70.5	15.0	95.9	R64.9	14.8	96.0	R68.2	14.8

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2015-2017 – continued

State	2016								
	November			October			September		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	NA	24.6	100.0	69.7	25.3	100.0	R73.8	NA
Alaska	100.0	98.9	100.0	100.0	97.5	100.0	100.0	96.5	100.0
Arizona	100.0	80.4	15.2	100.0	78.2	18.5	100.0	79.5	19.8
Arkansas	100.0	NA	1.9	100.0	25.8	1.5	100.0	28.4	1.5
California	95.7	52.2	4.5	95.0	49.7	4.3	94.8	47.0	3.1
Colorado	100.0	94.6	7.6	100.0	92.3	NA	100.0	90.6	NA
Connecticut	95.9	75.7	49.6	95.1	R72.7	47.9	95.6	R71.8	48.8
Delaware	100.0	29.5	NA	100.0	22.8	NA	100.0	23.4	NA
District of Columbia	NA	NA	0.0	NA	16.0	0.0	68.7	13.6	0.0
Florida	97.2	R29.6	3.4	97.4	R29.2	3.1	97.7	R28.0	3.2
Georgia	100.0	100.0	23.5	100.0	100.0	22.2	NA	100.0	21.0
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	75.5	2.4	100.0	67.2	2.2	100.0	59.6	2.2
Illinois	88.1	33.7	5.6	87.1	28.9	4.1	86.1	22.1	NA
Indiana	95.9	66.5	1.6	95.0	63.7	1.5	95.6	56.2	1.0
Iowa	100.0	69.2	5.8	100.0	65.9	4.3	100.0	NA	3.0
Kansas	NA	50.4	4.5	100.0	37.6	NA	100.0	30.4	12.6
Kentucky	98.1	73.8	16.6	98.0	69.3	16.9	97.6	66.8	17.3
Louisiana	100.0	75.0	NA	100.0	73.6	3.2	100.0	76.0	3.1
Maine	100.0	54.3	11.8	100.0	49.8	6.9	NA	NA	5.1
Maryland	75.9	24.0	7.2	74.4	21.2	2.7	73.5	16.8	NA
Massachusetts	98.7	38.9	19.7	98.6	31.5	19.3	98.7	24.2	19.5
Michigan	93.2	54.8	5.6	93.1	48.7	3.5	93.6	38.9	NA
Minnesota	100.0	87.7	17.7	100.0	83.3	16.6	100.0	75.6	NA
Mississippi	100.0	80.7	9.4	100.0	81.0	10.9	100.0	80.3	10.9
Missouri	100.0	65.1	10.5	100.0	61.0	NA	100.0	61.2	9.0
Montana	99.5	41.7	1.3	99.6	40.6	NA	99.5	37.2	NA
Nebraska	85.2	47.5	5.6	88.1	57.0	5.2	88.0	54.1	5.1
Nevada	100.0	55.7	13.6	100.0	50.0	11.9	100.0	48.5	NA
New Hampshire	100.0	51.0	4.6	100.0	47.2	2.7	100.0	47.2	1.9
New Jersey	94.4	38.9	5.3	94.6	30.5	3.2	94.2	19.4	2.2
New Mexico	99.9	40.4	14.2	100.0	43.2	13.6	100.0	45.7	10.2
New York	100.0	100.0	4.6	100.0	100.0	4.6	100.0	100.0	4.2
North Carolina	100.0	83.3	10.6	100.0	77.7	9.2	100.0	76.5	10.1
North Dakota	100.0	92.8	34.9	100.0	90.7	38.0	100.0	88.8	39.1
Ohio	100.0	100.0	1.3	100.0	100.0	0.8	100.0	100.0	NA
Oklahoma	100.0	NA	0.2	100.0	25.5	0.2	100.0	27.5	0.4
Oregon	100.0	94.3	16.1	100.0	94.3	15.0	100.0	92.9	14.9
Pennsylvania	88.9	38.2	R0.8	88.1	33.0	0.5	88.1	27.2	0.4
Rhode Island	100.0	51.7	2.7	100.0	54.0	3.5	100.0	54.2	2.7
South Carolina	100.0	91.6	40.9	100.0	90.1	41.4	100.0	89.2	42.1
South Dakota	100.0	80.8	6.7	100.0	76.4	3.1	100.0	72.1	1.9
Tennessee	100.0	85.0	24.0	100.0	NA	23.1	100.0	79.1	24.6
Texas	99.5	R64.4	37.8	99.7	R62.8	38.2	99.8	62.5	40.0
Utah	100.0	67.9	4.4	100.0	66.7	4.5	100.0	62.4	5.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	91.7	NA	11.1	89.9	45.9	NA	87.8	37.3	8.5
Washington	100.0	86.5	6.7	100.0	85.4	5.4	100.0	81.4	5.0
West Virginia	100.0	50.8	8.0	100.0	39.0	14.6	100.0	29.7	13.7
Wisconsin	100.0	70.1	17.0	100.0	61.9	14.9	100.0	51.7	11.9
Wyoming	74.0	53.4	NA	77.6	R55.8	1.5	72.1	R51.8	NA
Total	96.0	R63.7	14.5	95.9	R60.0	14.5	96.1	R56.3	14.6

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2015-2017 – continued

State	2016								
	August			July			June		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	72.1	24.5	100.0	72.5	24.2	100.0	73.4	21.8
Alaska	100.0	96.6	100.0	100.0	96.2	100.0	100.0	97.0	100.0
Arizona	100.0	79.6	14.3	100.0	80.6	18.5	100.0	81.6	20.3
Arkansas	100.0	26.9	1.1	100.0	26.4	1.2	100.0	26.3	1.1
California	94.4	43.3	3.2	94.9	47.4	3.3	94.6	48.4	3.8
Colorado	100.0	89.1	4.3	100.0	90.9	4.6	100.0	91.4	5.3
Connecticut	95.6	69.6	49.8	96.0	71.0	50.0	95.3	R71.1	44.5
Delaware	100.0	24.2	0.2	100.0	26.5	NA	100.0	31.2	0.2
District of Columbia	69.4	14.8	0.0	70.2	15.3	--	70.3	15.8	--
Florida	97.8	R29.6	3.2	97.8	R27.0	3.1	97.8	R28.3	3.5
Georgia	100.0	100.0	23.9	100.0	100.0	22.9	100.0	100.0	23.2
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	61.4	2.5	100.0	58.9	2.4	100.0	59.8	2.5
Illinois	86.0	NA	2.2	85.7	22.0	NA	86.3	23.8	NA
Indiana	95.6	50.7	1.0	95.1	53.6	0.9	95.0	54.1	1.0
Iowa	100.0	49.1	2.6	100.0	53.8	2.2	100.0	57.3	2.4
Kansas	100.0	29.6	21.4	100.0	32.1	18.3	100.0	35.3	13.5
Kentucky	97.6	64.7	17.6	97.2	67.3	18.2	96.3	66.9	19.0
Louisiana	100.0	75.4	3.1	100.0	NA	2.9	100.0	78.1	3.0
Maine	100.0	47.4	5.7	100.0	49.9	5.6	100.0	50.8	NA
Maryland	71.7	18.4	NA	71.5	16.0	1.3	72.3	20.0	2.0
Massachusetts	98.6	23.7	18.4	98.6	27.3	20.6	98.5	28.7	20.8
Michigan	92.1	32.8	2.5	92.9	38.4	2.3	92.3	41.1	2.6
Minnesota	100.0	74.7	12.4	100.0	72.6	11.0	100.0	73.0	10.4
Mississippi	100.0	81.2	9.0	100.0	79.6	8.8	NA	79.9	8.8
Missouri	100.0	60.1	8.6	100.0	60.6	8.2	100.0	61.4	8.5
Montana	99.5	37.6	NA	99.5	39.5	NA	99.5	44.0	NA
Nebraska	90.0	55.8	4.5	88.6	55.9	4.4	87.7	56.6	5.7
Nevada	100.0	47.4	NA	100.0	49.0	NA	100.0	51.6	9.2
New Hampshire	100.0	47.4	2.4	100.0	44.2	2.7	100.0	46.5	NA
New Jersey	94.2	16.5	NA	94.2	22.4	NA	94.4	24.3	3.0
New Mexico	99.9	46.0	13.1	100.0	47.6	10.7	99.9	51.5	8.9
New York	100.0	100.0	4.0	100.0	100.0	5.3	100.0	100.0	5.0
North Carolina	100.0	NA	9.0	100.0	75.2	9.1	100.0	77.3	9.2
North Dakota	100.0	86.1	9.7	100.0	86.6	16.3	100.0	85.0	37.8
Ohio	100.0	100.0	0.7	100.0	100.0	NA	100.0	100.0	NA
Oklahoma	100.0	26.9	NA	100.0	29.3	NA	100.0	31.9	NA
Oregon	100.0	92.9	13.8	100.0	NA	13.5	100.0	93.0	13.6
Pennsylvania	87.8	28.0	0.4	87.6	26.8	0.3	87.1	27.1	NA
Rhode Island	100.0	55.6	2.3	100.0	53.9	3.5	100.0	46.6	3.7
South Carolina	100.0	90.0	40.3	100.0	89.4	40.3	100.0	90.7	42.5
South Dakota	100.0	69.1	1.9	100.0	73.0	2.4	100.0	72.3	3.0
Tennessee	100.0	77.7	26.8	100.0	79.8	25.6	100.0	79.9	26.5
Texas	99.8	61.3	NA	99.8	64.2	NA	NA	NA	41.4
Utah	100.0	60.4	4.9	100.0	66.2	5.6	100.0	67.5	6.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	87.5	42.8	7.8	87.7	39.9	9.3	87.9	43.5	7.6
Washington	100.0	78.5	4.5	100.0	81.1	4.3	NA	NA	4.4
West Virginia	100.0	27.0	11.8	100.0	29.0	10.6	100.0	28.7	11.8
Wisconsin	100.0	49.4	12.2	100.0	48.0	11.5	100.0	57.5	13.0
Wyoming	75.6	R53.2	1.9	NA	R52.4	NA	R72.6	R45.8	NA
Total	95.8	R54.9	14.7	95.9	R57.0	14.3	95.7	R58.0	14.6

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2015-2017 – continued

State	2016								
	May			April			March		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	73.2	24.3	100.0	75.9	21.5	100.0	81.9	24.1
Alaska	100.0	98.0	100.0	100.0	98.5	100.0	100.0	99.0	100.0
Arizona	100.0	81.5	15.2	100.0	83.1	14.5	100.0	83.3	14.3
Arkansas	100.0	27.7	1.1	100.0	38.3	1.4	100.0	46.4	1.7
California	95.1	53.3	3.7	94.6	54.2	4.0	94.9	52.5	3.7
Colorado	100.0	93.3	7.1	100.0	93.6	7.1	100.0	94.6	8.8
Connecticut	95.4	R73.2	46.4	96.2	75.9	47.1	96.4	79.9	49.4
Delaware	100.0	35.9	0.1	100.0	40.8	0.1	100.0	47.8	0.4
District of Columbia	70.6	17.0	--	71.8	18.7	--	74.7	22.9	--
Florida	97.8	R30.3	3.2	97.4	R30.4	3.2	97.6	R31.4	3.4
Georgia	100.0	100.0	21.6	100.0	100.0	22.7	100.0	100.0	21.8
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	62.4	2.3	100.0	67.4	2.4	100.0	76.5	2.3
Illinois	82.9	24.9	NA	84.7	32.6	5.4	84.5	35.3	7.4
Indiana	95.2	59.6	1.3	NA	NA	1.8	95.3	64.0	2.1
Iowa	100.0	62.0	3.5	100.0	69.7	3.4	100.0	69.8	4.3
Kansas	100.0	NA	5.6	100.0	NA	7.8	100.0	49.9	4.3
Kentucky	96.2	71.0	17.5	96.2	75.6	18.3	95.9	79.7	17.1
Louisiana	100.0	75.8	3.0	100.0	79.4	3.5	100.0	81.0	3.4
Maine	100.0	56.6	NA	100.0	60.5	NA	100.0	60.0	NA
Maryland	71.6	24.3	4.0	73.6	25.3	6.0	72.5	28.4	8.9
Massachusetts	98.7	36.9	21.5	98.9	43.5	24.7	99.0	49.2	28.9
Michigan	92.3	49.5	4.4	92.8	57.7	6.6	92.5	58.7	8.5
Minnesota	100.0	NA	14.5	100.0	83.5	NA	100.0	83.9	15.1
Mississippi	100.0	80.2	8.3	NA	82.7	9.2	100.0	86.0	11.0
Missouri	100.0	62.8	8.5	100.0	69.5	11.4	100.0	75.8	12.9
Montana	99.5	43.9	1.2	99.6	52.3	NA	99.6	47.3	NA
Nebraska	85.3	56.4	6.2	86.0	58.4	6.3	89.2	63.4	7.5
Nevada	100.0	53.1	10.7	100.0	55.5	11.7	100.0	59.7	12.5
New Hampshire	100.0	50.7	NA	100.0	53.4	NA	100.0	55.8	NA
New Jersey	94.5	31.5	3.3	94.3	42.8	5.5	94.4	41.2	9.8
New Mexico	100.0	55.3	7.5	100.0	55.9	7.6	100.0	58.8	5.7
New York	100.0	100.0	5.6	100.0	100.0	5.5	100.0	100.0	7.6
North Carolina	100.0	77.9	9.5	100.0	81.0	10.7	100.0	81.5	12.2
North Dakota	100.0	90.4	39.8	100.0	92.7	22.9	100.0	93.5	30.6
Ohio	100.0	100.0	0.9	100.0	100.0	NA	100.0	100.0	2.0
Oklahoma	100.0	29.6	0.2	100.0	41.9	0.4	100.0	45.7	0.7
Oregon	100.0	93.6	13.7	100.0	93.7	15.0	100.0	94.5	16.3
Pennsylvania	86.9	30.2	NA	87.3	35.0	0.9	87.1	37.7	1.4
Rhode Island	100.0	47.1	3.1	100.0	51.2	3.1	100.0	52.7	4.0
South Carolina	100.0	89.4	41.2	100.0	89.9	R42.6	100.0	90.7	43.7
South Dakota	100.0	77.0	3.6	100.0	80.5	4.6	100.0	80.5	5.9
Tennessee	100.0	83.7	27.8	100.0	86.0	28.5	100.0	90.0	30.0
Texas	99.8	63.0	42.1	99.8	69.3	40.8	99.8	71.9	41.0
Utah	100.0	69.4	6.4	100.0	75.9	6.1	100.0	77.6	5.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	88.5	47.7	11.0	88.7	51.3	8.5	89.1	51.4	9.4
Washington	100.0	81.4	5.3	100.0	81.4	6.3	100.0	87.4	7.9
West Virginia	100.0	32.4	13.7	100.0	52.0	11.5	100.0	54.7	NA
Wisconsin	100.0	58.7	12.1	100.0	72.1	15.1	100.0	73.8	16.6
Wyoming	R73.2	R52.5	NA	71.9	R50.6	NA	R73.5	R49.6	NA
Total	95.4	R60.3	14.6	95.6	65.1	14.5	95.6	66.8	15.2

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2015-2017 – continued

State	2016						2015		
	February			January			Total		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	84.2	25.9	100.0	77.2	24.3	99.0	77.6	23.3
Alaska	100.0	99.0	100.0	100.0	99.2	100.0	100.0	98.1	100.0
Arizona	100.0	85.7	14.0	100.0	87.1	13.5	100.0	83.8	NA
Arkansas	100.0	53.1	1.8	100.0	47.2	1.6	100.0	42.5	1.7
California	94.9	53.4	4.8	95.2	54.6	5.0	94.9	50.0	3.8
Colorado	100.0	94.6	9.5	100.0	95.7	10.1	100.0	NA	NA
Connecticut	96.6	80.7	52.1	96.6	NA	50.9	96.3	76.2	47.2
Delaware	100.0	49.4	0.5	100.0	41.6	0.3	100.0	45.7	NA
District of Columbia	74.8	22.0	--	74.8	22.6	--	73.3	21.4	0.0
Florida	97.9	R32.7	4.2	97.5	R31.2	3.0	97.7	NA	NA
Georgia	100.0	100.0	22.4	100.0	100.0	20.8	100.0	100.0	NA
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	80.3	2.3	100.0	83.3	2.4	100.0	74.6	2.4
Illinois	86.5	39.8	9.1	87.5	41.1	10.3	86.3	36.1	5.9
Indiana	95.9	70.2	2.7	96.1	71.6	3.1	95.8	67.0	1.9
Iowa	100.0	75.2	NA	100.0	76.9	4.3	100.0	NA	NA
Kansas	100.0	65.8	1.3	100.0	68.6	0.8	100.0	57.0	NA
Kentucky	96.4	83.5	18.4	97.2	83.3	16.8	96.3	79.2	16.0
Louisiana	100.0	81.0	3.8	100.0	78.3	3.4	100.0	79.1	2.0
Maine	100.0	61.4	NA	100.0	60.1	NA	100.0	51.5	NA
Maryland	74.4	30.5	12.5	75.0	30.3	14.0	72.7	27.4	NA
Massachusetts	99.1	49.4	27.0	99.2	47.7	23.3	99.4	NA	26.3
Michigan	92.8	60.0	9.9	93.0	60.5	9.4	92.8	55.4	NA
Minnesota	100.0	84.1	NA	100.0	88.1	NA	100.0	84.3	NA
Mississippi	100.0	88.1	11.6	100.0	88.5	8.6	99.7	NA	9.0
Missouri	100.0	76.4	16.0	100.0	78.9	14.2	100.0	71.1	12.3
Montana	99.7	52.0	1.9	99.7	55.8	1.9	99.7	NA	NA
Nebraska	89.6	61.2	8.6	86.5	60.4	8.9	87.8	56.1	7.1
Nevada	100.0	67.7	17.8	100.0	69.5	20.7	100.0	57.9	NA
New Hampshire	100.0	57.3	NA	100.0	57.4	10.0	100.0	58.4	NA
New Jersey	94.2	46.4	12.1	94.2	47.4	8.8	93.4	NA	NA
New Mexico	100.0	64.2	4.7	100.0	60.0	4.7	100.0	NA	6.4
New York	100.0	100.0	8.3	100.0	100.0	7.0	100.0	100.0	NA
North Carolina	100.0	88.0	13.9	100.0	89.4	12.7	100.0	NA	10.9
North Dakota	100.0	94.4	23.6	100.0	94.6	30.4	100.0	93.0	39.6
Ohio	100.0	100.0	2.9	100.0	100.0	2.6	100.0	100.0	NA
Oklahoma	100.0	54.3	1.2	100.0	49.3	0.5	100.0	44.1	0.6
Oregon	100.0	94.9	16.9	100.0	95.4	17.3	100.0	NA	16.6
Pennsylvania	87.1	41.6	2.1	87.7	42.5	1.7	86.4	NA	1.0
Rhode Island	100.0	53.6	3.6	100.0	56.3	3.9	100.0	53.9	5.3
South Carolina	100.0	93.4	42.3	100.0	94.8	38.4	100.0	91.3	42.1
South Dakota	100.0	82.3	6.8	100.0	84.4	6.8	100.0	81.0	4.1
Tennessee	100.0	92.5	29.3	100.0	91.2	28.2	100.0	88.6	29.6
Texas	99.8	76.4	38.7	99.8	78.6	40.3	99.8	NA	40.7
Utah	100.0	80.7	5.9	100.0	82.9	6.4	100.0	77.0	8.6
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	100.0
Virginia	90.2	57.9	13.8	91.3	60.4	11.1	89.5	54.2	NA
Washington	100.0	86.7	7.6	100.0	89.0	8.3	100.0	85.4	6.2
West Virginia	100.0	63.6	16.7	100.0	64.0	13.5	100.0	53.3	NA
Wisconsin	100.0	76.8	20.3	100.0	79.5	20.1	100.0	NA	NA
Wyoming	71.8	R52.0	2.3	70.6	R50.9	2.3	73.0	NA	NA
Total	95.9	69.4	15.4	96.1	R70.5	15.3	95.7	65.9	15.1

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2015-2017 – continued

State	2015								
	December			November			October		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	76.0	22.8	100.0	69.7	23.0	100.0	68.4	23.6
Alaska	100.0	99.7	100.0	100.0	99.9	100.0	100.0	98.7	100.0
Arizona	100.0	85.4	13.7	100.0	83.2	14.0	100.0	80.1	16.5
Arkansas	100.0	41.7	1.7	100.0	28.2	1.7	100.0	28.1	1.5
California	95.6	54.7	4.6	96.1	51.7	4.1	94.7	46.5	4.0
Colorado	100.0	95.7	9.6	100.0	95.6	9.0	100.0	93.0	6.5
Connecticut	96.4	78.4	51.1	95.9	75.3	50.0	94.6	73.4	48.0
Delaware	100.0	38.9	0.2	100.0	31.6	0.1	100.0	31.6	0.2
District of Columbia	72.4	21.9	--	70.2	17.4	--	70.6	15.9	--
Florida	97.5	28.6	3.3	97.5	27.6	3.5	97.6	27.9	3.1
Georgia	100.0	100.0	20.7	100.0	100.0	20.6	100.0	100.0	21.0
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	83.4	2.4	100.0	78.9	2.1	100.0	66.8	2.1
Illinois	86.8	37.1	7.6	88.1	35.4	5.8	87.1	30.1	4.1
Indiana	95.9	67.8	2.0	95.9	65.6	1.6	95.4	64.1	1.4
Iowa	100.0	75.2	3.8	100.0	70.4	5.7	100.0	67.2	4.7
Kansas	100.0	58.6	1.2	100.0	52.7	2.6	100.0	39.7	5.8
Kentucky	96.7	80.6	16.6	97.4	76.0	16.5	97.6	72.3	15.7
Louisiana	100.0	75.6	2.8	100.0	72.4	3.0	100.0	74.1	2.9
Maine	100.0	58.8	11.2	100.0	54.8	9.1	100.0	49.3	5.7
Maryland	72.5	25.1	8.2	74.1	28.6	5.3	72.9	23.4	3.3
Massachusetts	99.2	44.2	24.6	99.3	37.8	19.9	99.3	32.2	18.2
Michigan	93.1	56.8	8.5	93.0	54.5	6.1	92.9	48.7	3.4
Minnesota	100.0	89.0	15.3	100.0	82.4	18.1	100.0	82.8	15.0
Mississippi	100.0	86.6	8.7	100.0	79.7	8.8	100.0	82.3	9.2
Missouri	100.0	73.1	12.4	100.0	65.8	9.9	100.0	58.9	9.2
Montana	99.8	54.0	1.6	99.8	47.3	1.6	99.7	43.5	1.6
Nebraska	87.0	58.1	6.7	84.0	48.4	6.4	87.4	52.4	5.6
Nevada	100.0	65.8	14.7	100.0	58.8	17.6	100.0	47.0	9.6
New Hampshire	100.0	55.4	8.5	100.0	53.1	6.8	100.0	48.8	5.2
New Jersey	94.3	42.0	7.2	94.0	37.2	4.4	94.0	27.3	2.7
New Mexico	100.0	53.6	9.2	100.0	45.8	10.8	99.9	39.0	12.4
New York	100.0	100.0	6.6	100.0	100.0	5.0	100.0	100.0	4.4
North Carolina	100.0	81.7	11.2	100.0	81.3	10.2	100.0	79.7	9.9
North Dakota	100.0	94.3	24.1	100.0	93.3	44.1	100.0	90.8	43.1
Ohio	100.0	100.0	2.1	100.0	100.0	1.7	100.0	100.0	1.2
Oklahoma	100.0	41.0	0.9	100.0	24.0	0.4	100.0	26.7	0.3
Oregon	100.0	95.2	16.6	100.0	95.0	16.4	100.0	94.6	16.9
Pennsylvania	86.8	38.5	1.0	87.7	37.2	0.7	87.9	34.5	0.4
Rhode Island	100.0	54.1	4.9	100.0	48.7	4.6	100.0	53.9	3.3
South Carolina	100.0	90.7	39.0	100.0	91.8	43.3	100.0	90.2	44.1
South Dakota	100.0	82.6	5.6	100.0	80.3	5.8	100.0	75.0	3.0
Tennessee	100.0	88.3	28.7	100.0	85.4	29.5	100.0	81.8	31.5
Texas	99.8	76.3	41.5	99.8	66.0	41.1	99.8	64.2	42.0
Utah	100.0	80.7	5.8	100.0	76.1	6.3	100.0	67.0	6.7
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	89.1	52.9	10.6	90.3	50.1	7.7	88.9	47.8	10.6
Washington	100.0	89.2	8.7	100.0	88.3	6.2	100.0	82.7	5.7
West Virginia	100.0	56.1	18.7	100.0	49.5	12.4	100.0	46.0	15.8
Wisconsin	100.0	74.9	17.5	100.0	72.1	20.0	100.0	66.0	14.8
Wyoming	74.7	51.2	2.7	75.4	45.1	1.4	76.8	55.9	1.8
Total	96.1	67.6	15.2	96.0	63.9	15.1	95.5	59.5	14.9

^R Revised data.

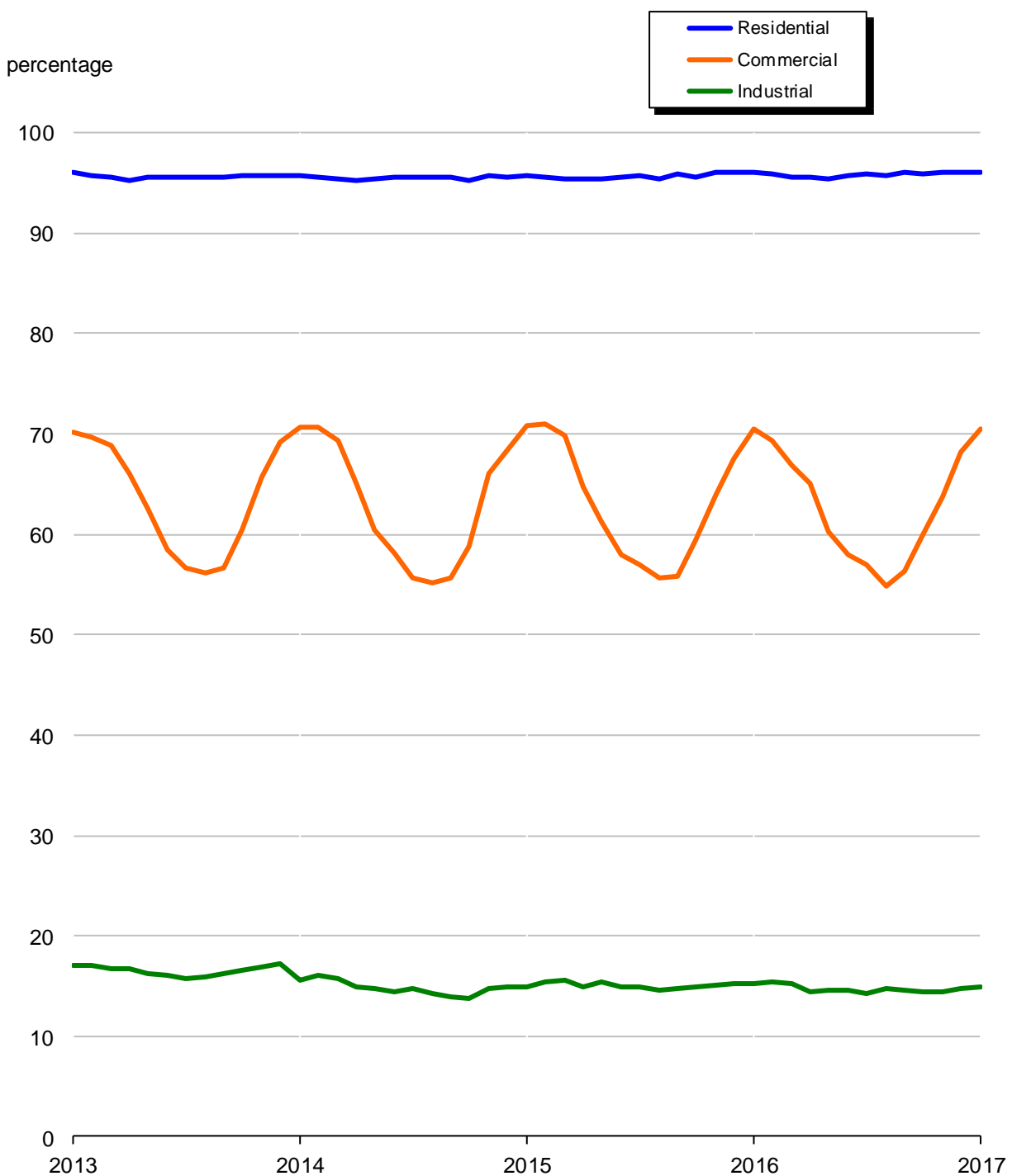
-- Not applicable.

^{NA} Not available.

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

Sources: 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, 2013-2017



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, 2015-2017
(Btu per cubic foot)

State	2017			2016		
	January	Total	December	November	October	September
Alabama	1,028	1,030	1,030	1,030	1,031	1,032
Alaska	1,000	1,001	1,000	1,000	1,001	1,002
Arizona	1,042	1,037	1,039	1,034	1,031	1,034
Arkansas	1,018	1,025	1,019	1,021	1,018	1,020
California	1,036	1,035	1,034	1,032	1,033	1,037
Colorado	1,060	1,062	1,059	1,063	1,069	1,075
Connecticut	1,026	1,026	1,026	1,026	1,026	1,026
Delaware	1,047	1,042	1,047	1,045	1,046	1,046
District of Columbia	1,051	1,043	1,045	1,040	1,035	1,038
Florida	1,024	1,023	1,025	1,024	1,023	1,026
Georgia	1,030	1,030	1,031	1,030	1,032	1,032
Hawaii	955	981	954	947	952	945
Idaho	1,036	1,033	1,033	1,036	1,035	1,035
Illinois	1,033	1,032	1,033	1,031	1,029	1,028
Indiana	1,038	1,039	1,035	1,046	1,048	1,042
Iowa	1,052	1,055	1,056	1,059	1,059	1,059
Kansas	1,042	1,036	1,038	1,039	1,037	1,038
Kentucky	1,037	1,032	1,026	1,039	1,027	1,030
Louisiana	1,023	1,033	1,023	1,022	1,022	1,026
Maine	1,037	1,025	1,030	1,018	1,016	1,019
Maryland	1,054	1,051	1,050	1,045	1,042	1,046
Massachusetts	1,031	1,030	1,030	1,029	1,029	1,029
Michigan	1,045	1,041	1,044	1,048	1,047	1,047
Minnesota	1,028	1,039	1,033	1,033	1,037	1,038
Mississippi	1,034	1,032	1,033	1,037	1,032	1,034
Missouri	1,022	1,024	1,024	1,024	1,024	1,023
Montana	1,036	1,031	1,035	1,039	1,029	1,034
Nebraska	1,057	1,055	1,059	1,063	1,068	1,069
Nevada	1,041	1,041	1,041	1,038	1,039	1,044
New Hampshire	1,032	1,029	1,031	1,027	1,028	1,026
New Jersey	1,043	1,040	1,042	1,040	1,038	1,038
New Mexico	1,045	1,047	1,041	1,040	1,039	1,048
New York	1,033	1,032	1,033	1,031	1,030	1,030
North Carolina	1,033	1,035	1,032	1,034	1,039	1,037
North Dakota	1,076	1,061	1,092	1,075	1,072	1,061
Ohio	1,071	1,070	1,073	1,071	1,072	1,068
Oklahoma	1,046	1,050	1,053	1,050	1,050	1,053
Oregon	1,036	1,039	1,038	1,035	1,038	1,038
Pennsylvania	1,041	1,041	1,040	1,039	1,040	1,041
Rhode Island	1,029	1,029	1,028	1,028	1,030	1,029
South Carolina	1,030	1,030	1,031	1,029	1,031	1,030
South Dakota	1,055	1,055	1,052	1,052	1,053	1,056
Tennessee	1,032	1,028	1,033	1,035	1,028	1,026
Texas	1,027	1,031	1,029	1,028	1,030	1,034
Utah	1,043	1,042	1,043	1,042	1,041	1,041
Vermont	1,034	1,026	1,029	1,022	1,019	1,016
Virginia	1,057	1,053	1,054	1,055	1,052	1,053
Washington	1,076	1,080	1,080	1,083	1,081	1,076
West Virginia	1,084	1,088	1,085	1,083	1,083	1,103
Wisconsin	1,041	1,035	1,041	1,033	1,036	1,029
Wyoming	1,060	1,069	1,057	1,056	1,050	1,054
Total	1,039	1,037	1,039	1,037	1,036	1,037

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2015-2017
(Btu per cubic foot) – continued

State	2016					
	August	July	June	May	April	March
Alabama	1,031	1,029	1,026	1,028	1,028	1,030
Alaska	1,003	1,003	1,003	1,002	1,001	1,001
Arizona	1,035	1,031	1,031	1,037	1,042	1,050
Arkansas	1,022	1,021	1,020	1,018	1,019	1,017
California	1,038	1,035	1,042	1,021	1,035	1,034
Colorado	1,074	1,072	1,071	1,066	1,065	1,055
Connecticut	1,025	1,025	1,026	1,025	1,026	1,026
Delaware	1,043	1,044	1,042	1,042	1,044	1,043
District of Columbia	1,038	1,038	1,034	1,035	1,040	1,043
Florida	1,026	1,023	1,020	1,021	1,023	1,024
Georgia	1,029	1,028	1,027	1,030	1,028	1,030
Hawaii	947	967	1,050	1,018	992	1,003
Idaho	1,035	1,028	1,035	1,044	1,056	1,044
Illinois	1,030	1,029	1,027	1,032	1,032	1,030
Indiana	1,047	1,035	1,042	1,038	1,034	1,032
Iowa	1,061	1,057	1,058	1,057	1,053	1,052
Kansas	1,039	1,033	1,034	1,032	1,033	1,037
Kentucky	1,038	1,033	1,025	1,018	1,026	1,023
Louisiana	1,028	1,022	1,023	1,022	1,021	1,022
Maine	1,026	1,023	1,023	1,019	1,024	1,030
Maryland	1,051	1,052	1,046	1,047	1,048	1,050
Massachusetts	1,028	1,028	1,029	1,029	1,029	1,030
Michigan	1,052	1,044	1,041	1,038	1,040	1,036
Minnesota	1,036	1,034	1,044	1,042	1,041	1,039
Mississippi	1,031	1,022	1,030	1,036	1,033	1,039
Missouri	1,024	1,022	1,022	1,021	1,024	1,024
Montana	1,033	1,028	1,029	1,023	1,023	1,027
Nebraska	1,073	1,070	1,064	1,064	1,062	1,048
Nevada	1,045	1,044	1,038	1,039	1,042	1,037
New Hampshire	1,026	1,026	1,028	1,027	1,029	1,031
New Jersey	1,039	1,038	1,037	1,037	1,039	1,042
New Mexico	1,055	1,046	1,049	1,052	1,048	1,048
New York	1,029	1,029	1,030	1,029	1,033	1,033
North Carolina	1,035	1,033	1,034	1,038	1,038	1,037
North Dakota	1,090	1,089	1,070	1,091	1,108	1,099
Ohio	1,067	1,068	1,069	1,070	1,068	1,070
Oklahoma	1,051	1,049	1,046	1,047	1,044	1,048
Oregon	1,046	1,045	1,044	1,043	1,038	1,036
Pennsylvania	1,039	1,040	1,041	1,042	1,042	1,042
Rhode Island	1,028	1,028	1,028	1,029	1,034	1,025
South Carolina	1,030	1,029	1,029	1,030	1,031	1,029
South Dakota	1,057	1,060	1,058	1,054	1,052	1,053
Tennessee	1,025	1,025	1,024	1,031	1,031	1,034
Texas	1,035	1,031	1,027	1,029	1,032	1,030
Utah	1,042	1,042	1,040	1,041	1,042	1,041
Vermont	1,017	1,016	1,025	1,023	1,028	1,030
Virginia	1,054	1,054	1,052	1,054	1,052	1,056
Washington	1,085	1,085	1,080	1,078	1,078	1,077
West Virginia	1,109	1,108	1,118	1,096	1,096	1,096
Wisconsin	1,026	1,026	1,033	1,037	1,038	1,038
Wyoming	1,058	1,053	1,048	1,053	1,055	1,071
Total	1,037	1,034	1,034	1,034	1,037	1,037

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2015-2017

(Btu per cubic foot) – continued

State	2016		Total	2015		
	February	January		December	November	October
Alabama	1,025	1,029	1,030	1,029	1,029	1,030
Alaska	1,000	1,000	1,001	1,000	1,001	1,001
Arizona	1,047	1,046	1,040	1,044	1,041	1,042
Arkansas	1,015	1,019	1,020	1,015	1,014	1,029
California	1,036	1,038	1,036	1,037	1,037	1,035
Colorado	1,052	1,050	1,060	1,051	1,060	1,069
Connecticut	1,026	1,026	1,027	1,026	1,027	1,028
Delaware	1,050	1,055	1,050	1,049	1,051	1,051
District of Columbia	1,049	1,051	1,044	1,044	1,039	1,045
Florida	1,025	1,015	1,024	1,023	1,023	1,023
Georgia	1,030	1,029	1,027	1,027	1,026	1,028
Hawaii	1,004	998	982	997	996	996
Idaho	1,038	1,034	1,030	1,041	1,035	1,033
Illinois	1,031	1,031	1,029	1,030	1,030	1,028
Indiana	1,033	1,030	1,027	1,033	1,034	1,039
Iowa	1,052	1,053	1,053	1,056	1,057	1,058
Kansas	1,036	1,032	1,036	1,031	1,035	1,037
Kentucky	1,025	1,027	1,023	1,024	1,021	1,024
Louisiana	1,025	1,024	1,025	1,023	1,022	1,023
Maine	1,037	1,035	1,027	1,027	1,025	1,026
Maryland	1,055	1,061	1,055	1,050	1,049	1,053
Massachusetts	1,032	1,031	1,029	1,030	1,029	1,028
Michigan	1,038	1,040	1,033	1,040	1,041	1,034
Minnesota	1,035	1,043	1,040	1,041	1,045	1,041
Mississippi	1,032	1,031	1,030	1,030	1,029	1,028
Missouri	1,023	1,024	1,012	1,023	1,024	1,025
Montana	1,030	1,033	1,026	1,034	1,034	1,032
Nebraska	1,054	1,054	1,057	1,053	1,055	1,060
Nevada	1,042	1,043	1,042	1,042	1,043	1,043
New Hampshire	1,039	1,035	1,030	1,030	1,029	1,029
New Jersey	1,043	1,044	1,045	1,044	1,044	1,041
New Mexico	1,048	1,046	1,038	1,046	1,042	1,048
New York	1,034	1,033	1,032	1,033	1,032	1,032
North Carolina	1,034	1,034	1,035	1,034	1,033	1,040
North Dakota	1,095	1,095	1,086	1,112	1,097	1,093
Ohio	1,072	1,073	1,068	1,077	1,077	1,071
Oklahoma	1,047	1,049	1,047	1,050	1,047	1,049
Oregon	1,034	1,033	1,036	1,036	1,035	1,036
Pennsylvania	1,045	1,048	1,047	1,046	1,046	1,045
Rhode Island	1,027	1,032	1,028	1,028	1,028	1,028
South Carolina	1,031	1,031	1,030	1,030	1,030	1,031
South Dakota	1,058	1,060	1,054	1,058	1,053	1,053
Tennessee	1,035	1,035	1,029	1,034	1,031	1,032
Texas	1,028	1,029	1,034	1,030	1,033	1,036
Utah	1,043	1,046	1,044	1,046	1,044	1,044
Vermont	1,032	1,029	1,025	1,027	1,027	1,030
Virginia	1,055	1,055	1,052	1,057	1,051	1,053
Washington	1,075	1,070	1,065	1,073	1,069	1,064
West Virginia	1,096	1,092	1,097	1,090	1,114	1,090
Wisconsin	1,046	1,045	1,042	1,044	1,043	1,045
Wyoming	1,052	1,056	1,060	1,054	1,046	1,040
Total	1,038	1,038	1,037	1,038	1,038	1,037

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2015-2017
(Btu per cubic foot) – continued

State	2015					
	September	August	July	June	May	April
Alabama	1,030	1,030	1,032	1,032	1,031	1,032
Alaska	1,001	1,002	1,002	1,002	1,001	1,002
Arizona	1,040	1,038	1,038	1,036	1,038	1,040
Arkansas	1,019	1,022	1,023	1,020	1,022	1,025
California	1,037	1,037	1,037	1,037	1,033	1,034
Colorado	1,076	1,069	1,073	1,070	1,059	1,059
Connecticut	1,026	1,026	1,027	1,027	1,049	1,026
Delaware	1,043	1,044	1,044	1,055	1,055	1,051
District of Columbia	1,035	1,036	1,037	1,040	1,044	1,044
Florida	1,024	1,024	1,026	1,026	1,026	1,024
Georgia	1,029	1,028	1,030	1,031	1,028	1,026
Hawaii	989	965	1,011	1,005	990	959
Idaho	1,024	1,028	1,034	1,010	1,000	1,023
Illinois	1,028	1,027	1,027	1,027	1,029	1,028
Indiana	1,041	1,044	1,043	1,043	1,037	1,039
Iowa	1,058	1,059	1,059	1,060	1,054	1,051
Kansas	1,039	1,042	1,040	1,039	1,044	1,036
Kentucky	1,020	1,015	1,024	1,021	1,023	1,016
Louisiana	1,023	1,024	1,028	1,027	1,028	1,029
Maine	1,019	1,018	1,020	1,020	1,022	1,025
Maryland	1,050	1,049	1,055	1,057	1,058	1,051
Massachusetts	1,027	1,028	1,029	1,027	1,027	1,029
Michigan	1,036	1,035	1,034	1,033	1,028	1,035
Minnesota	1,039	1,041	1,043	1,047	1,044	1,037
Mississippi	1,031	1,029	1,030	1,030	1,032	1,037
Missouri	1,026	1,026	1,026	1,026	1,024	1,026
Montana	1,032	1,033	1,031	1,030	1,019	1,021
Nebraska	1,068	1,071	1,068	1,063	1,061	1,057
Nevada	1,044	1,043	1,044	1,045	1,043	1,043
New Hampshire	1,028	1,028	1,027	1,028	1,028	1,029
New Jersey	1,041	1,042	1,043	1,043	1,043	1,043
New Mexico	1,040	1,049	1,038	1,039	1,038	1,034
New York	1,032	1,031	1,031	1,032	1,032	1,034
North Carolina	1,038	1,037	1,038	1,033	1,035	1,035
North Dakota	1,078	1,095	1,117	1,089	1,084	1,084
Ohio	1,071	1,068	1,069	1,068	1,072	1,073
Oklahoma	1,049	1,047	1,050	1,049	1,048	1,045
Oregon	1,038	1,039	1,039	1,042	1,039	1,035
Pennsylvania	1,044	1,044	1,044	1,046	1,050	1,049
Rhode Island	1,028	1,028	1,028	1,028	1,028	1,029
South Carolina	1,031	1,029	1,031	1,030	1,030	1,029
South Dakota	1,056	1,060	1,062	1,059	1,054	1,051
Tennessee	1,025	1,023	1,027	1,025	1,025	1,027
Texas	1,036	1,035	1,036	1,036	1,036	1,034
Utah	1,042	1,043	1,043	1,043	1,043	1,049
Vermont	1,020	1,019	1,022	1,021	1,021	1,024
Virginia	1,055	1,054	1,056	1,055	1,055	1,045
Washington	1,066	1,065	1,070	1,069	1,065	1,062
West Virginia	1,102	1,099	1,099	1,096	1,107	1,103
Wisconsin	1,034	1,040	1,036	1,040	1,038	1,039
Wyoming	1,041	1,044	1,042	1,045	1,045	1,043
Total	1,037	1,036	1,037	1,037	1,037	1,037

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2015-2017
(Btu per cubic foot) – continued

State	2015		
	March	February	January
Alabama	1,029	1,026	1,028
Alaska	1,001	1,000	1,000
Arizona	1,036	1,038	1,038
Arkansas	1,023	1,023	1,021
California	1,033	1,035	1,034
Colorado	1,051	1,044	1,046
Connecticut	1,029	1,026	1,017
Delaware	1,062	1,061	1,061
District of Columbia	1,046	1,047	1,045
Florida	1,024	1,025	1,024
Georgia	1,025	1,026	1,025
Hawaii	947	954	968
Idaho	1,030	1,037	1,047
Illinois	1,029	1,030	1,027
Indiana	1,031	1,029	1,028
Iowa	1,047	1,047	1,045
Kansas	1,035	1,034	1,033
Kentucky	1,015	1,018	1,023
Louisiana	1,029	1,031	1,030
Maine	1,030	1,035	1,033
Maryland	1,058	1,061	1,059
Massachusetts	1,030	1,035	1,035
Michigan	1,030	1,026	1,027
Minnesota	1,033	1,034	1,041
Mississippi	1,031	1,033	1,036
Missouri	1,025	1,020	1,017
Montana	1,028	1,029	1,028
Nebraska	1,053	1,054	1,052
Nevada	1,041	1,040	1,040
New Hampshire	1,033	1,041	1,037
New Jersey	1,050	1,050	1,050
New Mexico	1,034	1,038	1,038
New York	1,034	1,035	1,034
North Carolina	1,030	1,028	1,030
North Dakota	1,072	1,078	1,036
Ohio	1,062	1,062	1,065
Oklahoma	1,044	1,043	1,042
Oregon	1,032	1,031	1,031
Pennsylvania	1,049	1,054	1,053
Rhode Island	1,029	1,029	1,029
South Carolina	1,028	1,028	1,030
South Dakota	1,047	1,048	1,048
Tennessee	1,029	1,029	1,028
Texas	1,029	1,028	1,026
Utah	1,047	1,046	1,039
Vermont	1,027	1,035	1,026
Virginia	1,051	1,053	1,056
Washington	1,060	1,054	1,052
West Virginia	1,069	1,084	1,097
Wisconsin	1,040	1,044	1,042
Wyoming	1,042	1,041	1,043
Total	1,036	1,036	1,036

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

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

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	703	665	757	841	442
2015	584	509	596	653	325
2016	639	576	575	578	384
% Diff (normal to 2016)	-9.1	-13.4	-24.0	-31.3	-13.1
% Diff (2015 to 2016)	9.4	13.2	-3.5	-11.5	18.2
December					
Normal	1,045	994	1,135	1,250	700
2015	682	607	765	953	370
2016	1,005	945	1,147	1,240	633
% Diff (normal to 2016)	-3.8	-4.9	1.1	-0.8	-9.6
% Diff (2015 to 2016)	47.4	55.7	49.9	30.1	71.1
January					
Normal	1,209	1,155	1,303	1,392	803
2016	1,090	1,094	1,213	1,290	824
2017	1,004	946	1,071	1,199	598
% Diff (normal to 2017)	-17.0	-18.1	-17.8	-13.9	-25.5
% Diff (2016 to 2017)	-7.9	-13.5	-11.7	-7.1	-27.4
February					
Normal	1,029	980	1,062	1,080	638
2016	938	896	965	945	620
2017	866	747	768	810	421
% Diff (normal to 2017)	-15.8	-23.8	-27.7	-25.0	-34.0
% Diff (2016 to 2017)	-7.7	-16.6	-20.4	-14.3	-32.1
November to February					
Normal	3,986	3,794	4,257	4,563	2,583
2016	3,294	3,106	3,539	3,841	2,139
2017	3,514	3,214	3,561	3,827	2,036
% Diff (normal to 2017)	-11.8	-15.3	-16.4	-16.1	-21.2
% Diff (2016 to 2017)	6.7	3.5	0.6	-0.4	-4.8

See footnotes at end of table.

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

	East South Central	West South Central	Mountain	Pacific ^b	
	AL, KY, MS, TN	AR, LA, OK, TX	AZ, CO, ID, MT, NV, NM, UT, WY	CA, OR, WA	U.S. Average ^b
Month/Year/Type of data					
November					
Normal	455	305	740	366	589
2015	322	229	731	393	486
2016	351	172	550	263	452
% Diff (normal to 2016)	-22.9	-43.6	-25.7	-28.1	-23.3
% Diff (2015 to 2016)	9.0	-24.9	-24.8	-33.1	-7.0
December					
Normal	722	537	999	531	885
2015	401	364	990	559	640
2016	660	461	992	548	863
% Diff (normal to 2016)	-8.6	-14.2	-0.7	3.2	-2.5
% Diff (2015 to 2016)	64.6	26.7	0.2	-2.0	34.8
January					
Normal	829	612	1,026	532	991
2016	841	564	979	501	937
2017	562	418	1,025	592	839
% Diff (normal to 2017)	-32.2	-31.7	-0.1	11.3	-15.3
% Diff (2016 to 2017)	-33.2	-25.9	4.7	18.2	-10.5
February					
Normal	631	429	802	412	793
2016	589	329	682	268	696
2017	402	220	674	427	600
% Diff (normal to 2017)	-36.3	-48.7	-16.0	3.6	-24.3
% Diff (2016 to 2017)	-31.8	-33.1	-1.2	59.3	-13.8
November to February					
Normal	2,637	1,883	3,567	1,841	3,258
2016	2,153	1,486	3,382	1,721	2,759
2017	1,975	1,271	3,241	1,830	2,754
% Diff (normal to 2017)	-25.1	-32.5	-9.1	-0.6	-15.5
% Diff (2016 to 2017)	-8.3	-14.5	-4.2	6.3	-0.2

^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.

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.

Note 1. Production

Monthly Data

Estimates of gross withdrawals and marketed production for the Lower 48 states are derived from submission by well operators on the monthly Form EIA-914, "Monthly Crude Oil, Lease Condensate and Natural Gas Production Report." For 2014, monthly production volumes are available for only those states/areas that were collected individually on the EIA-914 survey (Louisiana, New Mexico, Oklahoma, Texas, Wyoming, and the Federal Offshore Gulf of Mexico) and Alaska. Starting in 2015, 10 states (Arkansas, California, Colorado, Kansas, Montana, North

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 Imports	Derived from supply estimates and coal gasification information 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

Dakota, Ohio, Pennsylvania, Utah, and West Virginia) were added to the EIA-914 data collection and are reported individually. The remaining states/areas (Alabama, Arizona, Federal Offshore Pacific, Florida, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) are grouped in the "Other States" category. 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.) Gross withdrawals for the state of Alaska are obtained from summary reports posted by the state of Alaska, Oil and Gas Conservation Commission.

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

Annual Data

Prior to 2011, natural gas production data were collected from 32 gas-producing states on the voluntary Form EIA-895. The form requested data on gross withdrawals, gas vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, marketed production (wet), and NGPL production (formerly known as extraction loss). Beginning in 2011, EIA has obtained similar data directly from the states. The Bureau of Safety & Environmental Enforcement also supplies data on the quantity and value of natural gas production from the Federal waters of the Gulf of Mexico.

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 2012 through 2013 include both underground and liquefied natural gas (LNG) storage. Beginning in January 2013, U.S. totals include Alaska data. Prior to 2013, totals only included data from the lower 48 states. Beginning in November 2015, new region breakouts of the storage data shown in Tables 12 and 13 were introduced, replacing the Producing, East, and West region breakouts. The states included in each of the new regions are as follows:

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

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

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

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

Pacific Region: California, Oregon, and Washington.

Monthly Data

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

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

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

Annual Data

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

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

Note 6. Consumption

Monthly Data

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

Annual Data

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

Residential, Commercial, and Industrial Consumption

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

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

Vehicle Fuel Use

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

Electric Power Consumption

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

Pipeline and Distribution Use

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

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

Lease and Plant Fuel Consumption

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

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

Note 7. Balancing Item

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

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

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

Note 8. Average Price of Deliveries to Consumers

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

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

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

Monthly Data

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

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

The NGPL composite spot price is calculated as:

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

where:

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

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

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

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

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

Annual Data

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

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

Note 10. Heating Degree-Days

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

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

Note 11. Heat Content

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

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Appendix B

Data Sources

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 2016

for report year 2015 totaled approximately 2,036 questionnaire packages. While final nonresponse rates vary, the rates have averaged about 1 percent in recent years.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

reporting period. The annual schedule contains type of facility, storage field capacity, maximum deliverability and pipelines to which each field is connected. The annual schedule for the prior year is filed with the December submission.

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

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

“Quarterly Natural Gas Import and Export Sales and Price Report”

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

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

Form EIA-857, “Monthly Report of Natural Gas Purchases and Deliveries to Consumers”

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

A sample of approximately 310 natural gas companies, including interstate pipelines, intrastate pipelines, and local distribution companies, report to the survey. The sample was selected independently for each of the 50 states and the District of Columbia from a frame consisting of all respondents to Form EIA-176 who reported deliveries of natural gas to consumers in the residential, commercial, or industrial sectors. Each selected company is required to complete and file the Form EIA-857 monthly. Each month about half the responses are received by the due date although response rates by first publication of the relevant month are approximately 95 percent. When a response is extremely late, volumes are imputed, as described in Appendix C, “Statistical Considerations.” When the company’s submission is eventually received, the submitted data are entered into the data system and used for subsequent processing and revisions.

Form EIA-857 data are used to estimate monthly sales of natural gas (volume and price) by state and monthly deliveries of natural gas on behalf of others (volume) by state to three consumer sectors --residential,

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

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

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

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

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

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Appendix C

Statistical Considerations

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 2016 was selected from a universe of 1,668 companies. These companies were respondents to the Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition,” for reporting year 2014, 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 310 respondents.

Estimation Procedures

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

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

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

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

or

(1)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

where:

R_{adj} = sendout adjusted residential volume,

C_{adj} = sendout adjusted commercial volume,

SO = sendout volume,

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

EP = reported electric power volume,

IN = reported industrial volume,

R = reported residential volume,

C = reported commercial volume.

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

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

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

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

where:

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

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

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

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

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

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

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

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

for Georgia, and,

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

for New York and Ohio, where:

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

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

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

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

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

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

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

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

Estimation for Nonrespondents and Edit Failures.

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

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

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

where:

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

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

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

Final Revisions

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

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

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

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

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

The formula for revising the estimated consumption is:

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

where:

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

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

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

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

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

The formula for revising the estimated revenue is:

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

where:

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

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

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

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

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

Reliability of Monthly Data

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

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

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

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

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

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

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

where:

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

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

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

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

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

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

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

N = frame size.

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

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

where:

P_j = natural gas price in sector j,

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

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

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

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

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

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

and,

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

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

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

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

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

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

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

Table C1. Standard error for natural gas deliveries and price by consumers, by state, January 2017

State	Volume Relative Standard Error (Percent)				Price (Dollars per Thousand Cubic Feet)		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	0.5	0.7	1.3	0.9	0.06	0.10	0.15
Alaska	0.9	3.8	0.0	1.7	0.02	0.49	0.00
Arizona	2.0	7.2	4.5	2.6	0.04	0.07	0.22
Arkansas	2.3	NA	1.3	NA	0.04	0.13	0.39
California	NA	2.4	0.7	NA	0.37	0.69	0.64
Colorado	0.6	0.6	1.0	0.4	NA	0.05	0.08
Connecticut	0.3	0.2	1.1	0.2	0.05	0.03	0.01
Delaware	0.0	0.0	0.0	0.0	0.00	0.00	0.00
District of Columbia	0.0	0.0	0.0	0.0	NA	NA	0.00
Florida	2.6	1.2	0.9	0.7	NA	0.50	0.28
Georgia	0.0	0.0	2.0	0.0	0.02	0.06	0.24
Hawaii	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Idaho	0.7	0.9	0.0	0.4	0.00	0.03	0.00
Illinois	0.4	0.2	1.8	0.4	0.06	NA	0.37
Indiana	1.0	0.3	0.8	0.5	0.04	0.04	0.40
Iowa	1.0	0.2	1.8	1.0	0.06	0.03	0.28
Kansas	0.9	0.6	2.1	0.9	0.04	0.04	1.03
Kentucky	0.7	0.5	1.8	0.9	0.10	0.08	0.38
Louisiana	1.5	1.4	NA	NA	0.16	NA	0.07
Maine	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Maryland	NA	1.0	1.5	NA	0.09	0.12	0.41
Massachusetts	0.4	0.9	1.3	0.4	0.06	0.06	0.12
Michigan	0.5	0.6	1.3	0.4	0.06	0.01	0.03
Minnesota	NA	0.4	1.0	NA	0.03	NA	0.13
Mississippi	0.3	0.9	1.0	0.7	NA	NA	0.07
Missouri	0.7	0.6	NA	NA	0.04	0.07	0.19
Montana	0.3	0.4	0.2	0.2	0.02	0.07	0.00
Nebraska	0.3	0.8	1.5	0.6	0.04	0.06	0.43
Nevada	0.0	0.0	0.4	0.1	0.00	0.00	0.06
New Hampshire	0.0	0.0	7.2	1.5	0.00	0.00	0.00
New Jersey	0.0	0.0	0.8	NA	0.00	0.00	NA
New Mexico	1.9	1.0	5.8	1.3	0.02	0.11	0.17
New York	0.0	0.0	1.1	0.0	0.03	0.01	0.25
North Carolina	0.3	0.4	0.5	0.2	0.04	0.05	0.16
North Dakota	0.5	1.1	2.7	1.2	0.05	0.10	0.00
Ohio	0.0	0.0	1.3	0.0	0.05	0.04	0.44
Oklahoma	1.4	1.0	1.1	0.7	0.02	0.10	0.50
Oregon	0.0	0.0	1.8	0.5	0.00	0.00	0.00
Pennsylvania	0.1	0.1	2.6	0.6	NA	0.03	0.12
Rhode Island	0.0	0.0	0.0	0.0	0.00	0.00	0.00
South Carolina	0.3	2.1	0.9	0.6	0.15	0.20	0.16
South Dakota	0.9	1.1	0.6	0.5	0.08	0.10	0.07
Tennessee	0.4	0.6	1.5	0.6	0.07	0.06	0.14
Texas	NA	NA	NA	NA	0.09	0.17	0.03
Utah	0.3	0.2	0.0	0.1	0.00	0.00	0.00
Vermont	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Virginia	NA	NA	2.1	NA	0.19	NA	0.49
Washington	1.6	1.9	2.4	1.1	0.08	0.09	0.15
West Virginia	2.9	1.1	1.4	1.3	0.07	0.09	0.13
Wisconsin	0.5	0.5	0.6	0.3	0.04	0.02	0.01
Wyoming	0.3	0.3	1.6	0.8	0.01	0.01	NA
Total	0.1	0.2	0.3	0.1	0.04	0.03	0.03

NA Not available.

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

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Glossary

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.