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Natural Gas Monthly September 1998

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Office of Oil and Gas
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Preface

The *Natural Gas Monthly* (NGM) is prepared in the Natural Gas Division, Office of Oil and Gas, Energy Information Administration (EIA), U.S. Department of Energy (DOE), under the direction of Joan E. Heinkel.

General questions and comments regarding the NGM may be referred to Ann M. Ducca (202) 586-6137. Specific technical questions may be referred to the appropriate persons listed in Appendix E.

The 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. From time to time, the NGM features articles designed to assist readers in using and interpreting natural gas information.

The data in this publication are collected on surveys conducted by the EIA to fulfill its responsibilities for gathering and reporting energy data. Some of the data are collected under the authority of the Federal Energy Regulatory Commission (FERC), an independent commission within the DOE, which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. 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.

Common Abbreviations Used in the Natural Gas Monthly

AGA	American Gas Association	IOGCC	Interstate Oil and Gas Compact Commission
Bbl	Barrels	LNG	Liquefied Natural Gas
BLS	Bureau of Labor Statistics, U.S. Department of Labor	Mcf	Thousand Cubic Feet
Bcf	Billion Cubic Feet	MMBtu	Million British Thermal Units
BOM	Bureau of Mines, U.S. Department of the Interior	MMcf	Million Cubic Feet
Btu	British Thermal Unit	MMS	United States Minerals Management Service, U.S. Department of the Interior
DOE	U.S. Department of Energy	NGL	Natural Gas Liquids
DOI	U.S. Department of the Interior	OCS	Outer Continental Shelf
EIA	Energy Information Administration, U.S. Department of Energy	STIFS	Short-Term Integrated Forecasting System
FERC	Federal Energy Regulatory Commission	STEO	Short Term Energy Outlook
		Tcf	Trillion Cubic Feet

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Highlights

Overview

This issue of the *Natural Gas Monthly* presents the most recent estimates of natural gas data from the Energy Information Administration (EIA). Estimates extend through September 1998 for many data series and through June for most price series. Highlights of the September 1998 data contained in this issue are:

- At the end of September 1998, working gas in underground storage is estimated to be 2,921 billion cubic feet, 9 percent more than at the end of September 1997.
- Estimates of natural gas production and net imports from January through September 1998 indicate a slight increase in supply compared with year-ago levels. Dry production is estimated to be less than 1 percent above 1997 and net imports are 2 percent higher.
- Cumulatively for January through September 1998, total end-use consumption of natural gas is estimated to be 14,483 billion cubic feet, 2 percent lower than for the same period of 1997. Consumption declined in the residential, commercial, and industrial sectors.
- After 3 months when the average wellhead price had remained virtually unchanged in a range of \$1.86 to \$1.89 per thousand cubic feet, it fell from May to June 1998 by 9 percent to an estimated \$1.71 per thousand cubic feet.

Supply

Estimates of natural gas production and net imports through September 1998 indicate a slight increase in supply compared with year-ago levels. Dry gas production in September 1998 is estimated to be 1,561 billion cubic feet or 52 billion cubic feet per day (Table 1). This daily rate is slightly above that of the previous month and 1 percent higher than the daily rate in September 1997. Cumulatively from January through September, dry production in 1998 was less than 1 percent above 1997 (Figure HI1).

Net imports, which are an important component of the supply of natural gas in the United States, are estimated to be 231 billion cubic feet in September 1998 or 7.7 billion cubic feet per day (Table 2). In the previous month they were 7.5 billion cubic feet per day, 3 percent lower. Cumulatively for January through September, net imports are 2 percent higher than they were a year ago.

The 1998 refill season began with a rapid rate of injections into underground storage in April and May. Since that time the rate has slowed. Cumulatively from April through September, an estimated 1,733 billion cubic feet have been injected into storage, 3 percent more than a year ago. Working gas in underground storage had ended the 1997-98 heating season (November through March) at 1,184 billion cubic feet, 19 percent more than at the end of the previous heating season. At the end of September 1998, working gas is estimated to be 2,921 billion cubic feet, 9 percent more than at the end of September 1997 (Figure HI2).

End-Use Consumption

Natural gas consumption by end users in September 1998 is estimated to be 1,304 billion cubic feet, about the same as consumption in September one year ago (Table 3). Cumulatively for January through September 1998, end-use consumption is estimated to be 14,483 billion cubic feet, 2 percent lower than for the same period of 1997. The cumulative decline occurred across the residential, commercial, and industrial sectors as respective consumption levels were estimated at 279, 141, and 105 billion cubic feet lower than during the first 9 months of 1997 (Figure HI3).

Consumption estimates in the residential and commercial sectors totaled 278 billion cubic feet in September 1998. This level was virtually the same as the volume consumed in September 1997. Cumulatively from January through September, the residential sector showed an 8-percent decline and the commercial sector a 6-percent decline in 1998, compared with consumption for those sectors in 1997. Declines in residential and commercial consumption are attributable to both the warmer-than-normal temperatures during the 1997-98 heating season and the seasonal decline in demand for natural gas for space heating during the summer months.

Figure HI1. Natural Gas Production and Consumption, January-September, 1996-1998

Source: Table 2.

Figure HI2. Working Gas in Underground Storage in the United States, 1996-1998

Note: The 5-year average is calculated using the latest available monthly data. For example, the December average is calculated from December storage levels for 1993 to 1997 while the January average is calculated from January levels for 1994 to 1998. Data are reported as of the end of the month, thus October data represent the beginning of the heating season.

Sources: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and Short-Term Integrated Forecasting System.

Figure HI3. Natural Gas Delivered to Consumers, January-September, 1996-1998

Note: The reporting of electric utility deliveries is 3 months behind the reporting of other deliveries.
Source: Table 3.

Industrial sector consumption during September 1998 is estimated at 690 billion cubic feet, only 3 billion cubic feet more than consumption in September 1997. Industrial consumers used an estimated 6,431 billion cubic feet of natural gas during the first 9 months of 1998, down 2 percent or 105 billion cubic feet from the first 9 months of 1997.

Estimates of natural gas consumption by electric utilities are now available through June 1998. Consumption in this sector typically increases during the summer months when residential and commercial space-heating requirements decline and the demand for air conditioning is greatest. Electric utilities consumed an estimated 379 billion cubic feet in June 1998, 29 percent more than during the previous month and 28 percent more than in June a year ago. More than half of the increase from June 1997 to June 1998 occurred in Texas as very hot weather drove up demand for air conditioning. Cumulatively from January through June, electric utility consumption was 1,361 billion cubic feet, 14 percent higher than during the same period of 1997.

Prices

After 3 months when the average wellhead price was fairly stable in a range of \$1.86 to \$1.89 per thousand cubic feet, it fell from May to June 1998 by 9 percent to an estimated \$1.71 per thousand cubic feet. This was the lowest price since February (Table 4). The decline reflects the effects of low demand due to the generally moderate summer temperatures that were prevalent throughout most parts of the country at that time. The one exception was in the Southwest, specifically Texas, where triple-digit temperatures prevailed.

The estimated price paid for natural gas in the residential sector began its summertime increase in June as prices moved up by 11 percent between May and June to \$8.44 per thousand cubic feet. Cumulatively from January through June 1998, the price averaged \$6.63 per thousand cubic feet, 2 percent less than during the same period in 1997 (Figure HI4). The price for deliveries to commercial consumers decreased by 8 cents per thou-

Figure H14. Average Delivered and Wellhead Natural Gas Prices, January-June 1996-1998

Note: Commercial and industrial average prices reflect onsystem sales only. The reporting of electric utility prices is 1 month behind the reporting of other prices..

Source: Table 4.

sand cubic feet, or 1 percent, between May and June. Through the first 6 months of the year, it was 5 percent lower than during the same 6-month period of the previous year.

In the industrial sector, the price declined by 19 cents per thousand cubic feet or 6 percent in June. Cumulatively from January through June, the industrial price was 7 percent below the level for the same period in 1997. Electric utility prices are available through May 1998 in this report. Cumulatively from January through May, estimated prices in the electric utility sector are 9 percent lower in 1998 than in 1997—\$2.54 versus \$2.80 per thousand cubic feet.

The September futures contract at the Henry Hub expired on August 27 at \$1.672 per MMBtu, almost \$0.85 less than last year's September contract (\$2.512). The October contract price continued this downward trend, and on September 28 settled at \$2.031 per MMBtu, almost \$1.45 less than last year. The November futures contract is also trading at a level (\$2.30) well below last year's closing price of \$3.266 per MMBtu. A series of tropical storms and hurricane "Georges" have caused several short-lived jumps in the spot price of gas, but the market fundamentals—moderate to low demand, ample supply, and the elevated level of gas in storage—remain constant and continue to contribute to a softening in the price of gas.

Figure H15. Daily Futures Settlement Prices at the Henry Hub

Note: The futures price is for the nearby month contract, that is, for the next contract to terminate trading. Contracts are traded on the New York Mercantile Exchange. April 1 is the beginning of the natural gas storage refill season. November 1 is the beginning of the heating season.

Source: Commodity Futures Trading Commission, Division of Economic Analysis.

Table 1. Summary of Natural Gas Production in the United States, 1992-1998
(Billion Cubic Feet)

Year and Month	Gross Withdrawals	Repressuring	Nonhydrocarbon Gases Removed ^a	Vented and Flared	Marketed Production (Wet)	Extraction Loss ^b	Dry Gas Production ^c
1992 Total	22,132	2,973	280	168	18,712	872	17,840
1993 Total	22,726	3,103	414	227	18,982	886	18,095
1994 Total	23,581	3,231	412	228	19,710	889	18,821
1995 Total	23,744	3,565	388	284	19,506	908	18,599
1996							
January	2,052	310	44	26	1,673	81	1,591
February	1,941	294	41	24	1,580	77	1,504
March	2,054	313	45	23	1,674	81	1,592
April	2,003	289	42	22	1,650	80	1,570
May	2,025	281	42	23	1,679	81	1,598
June	1,962	276	36	16	1,634	79	1,555
July	2,008	271	42	24	1,672	81	1,591
August	2,021	281	45	24	1,671	81	1,590
September	1,958	283	44	22	1,609	78	1,531
October	2,011	306	44	23	1,638	79	1,558
November	1,984	299	47	23	1,615	78	1,537
December	2,032	307	46	23	1,656	80	1,576
Total	24,052	3,510	518	272	19,751	958	18,793
1997							
January	^E 2,094	^E 327	^E 41	^E 21	^E 1,704	^E 83	^E 1,622
February	^E 1,910	^E 301	^E 38	^E 19	^E 1,553	^E 75	^E 1,477
March	^E 2,098	^E 322	^E 43	^E 23	^E 1,711	^E 83	^E 1,628
April	^E 1,985	^E 296	^E 42	^E 21	^E 1,626	^E 79	^E 1,547
May	^E 2,070	^E 313	^E 42	^E 21	^E 1,693	^E 82	^E 1,610
June	^E 1,975	^E 294	^E 40	^E 21	^E 1,620	^E 79	^E 1,541
July	^E 2,032	^E 295	^E 42	^E 22	^E 1,674	^E 81	^E 1,593
August	^E 2,009	^E 283	^E 42	^E 22	^E 1,663	^E 81	^E 1,582
September	^E 1,983	^E 295	^E 42	^E 21	^E 1,625	^E 79	^E 1,546
October	^E 2,054	^E 318	^E 44	^E 23	^E 1,669	^E 81	^E 1,589
November	^E 2,026	^E 308	^E 43	^E 22	^E 1,654	^E 80	^E 1,574
December	^E 2,106	^E 334	^E 44	^E 24	^E 1,704	^E 83	^E 1,621
Total	^E 24,342	^E 3,685	^E 503	^E 258	^E 19,895	^E 965	^E 18,930
1998							
January	^E 2,107	^E 331	^E 45	^E 22	^E 1,708	^E 83	^E 1,625
February	^E 1,923	^E 293	^E 41	^E 19	^E 1,570	^E 76	^E 1,494
March	^{RE} 2,097	^E 320	^E 45	^E 22	^{RE} 1,710	^E 83	^{RE} 1,627
April	^{RE} 1,986	^E 285	^E 43	^E 21	^{RE} 1,636	^E 79	^{RE} 1,557
May	^{RE} 1,999	^{RE} 260	^{RE} 42	^{RE} 19	^{RE} 1,677	^{RE} 81	^{RE} 1,596
June	^{RE} 1,976	^{RE} 281	^{RE} 42	^{RE} 20	^E 1,632	^E 79	^E 1,553
July	^E 2,041	^E 283	^E 44	^E 21	^E 1,693	^E 82	^E 1,611
August(STIFS)	NA	NA	NA	NA	^E 1,685	^E 82	^E 1,603
September(STIFS)	NA	NA	NA	NA	^E 1,640	^E 80	^E 1,561
1998 YTD	NA	NA	NA	NA	^E 14,951	^E 725	^E 14,226
1997 YTD	^E 18,156	^E 2,725	^E 373	^E 190	^E 14,868	^E 721	^E 14,147
1996 YTD	18,024	2,598	381	203	14,842	720	14,122

^a See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.

^b Extraction loss is only collected on an annual basis. Annually it is between 4 and 5 percent of marketed production. Monthly extraction loss is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next twelve months.

^c Equal to marketed production (wet) minus extraction loss.

^E = Estimated Data.

^{RE} = Revised Estimated Data.

NA = Not Available.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated and contain estimates for selected States (see Table 7). Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 1992-1996: Energy Information Administration (EIA), *Natural Gas Annual 1996*. January 1997 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," STIFS, and EIA estimates. See Appendix A, Explanatory Notes 1, 3, and 6, for discussion of computation and estimation procedures and revision policies.

Table 2. Supply and Disposition of Dry Natural Gas in the United States, 1992-1998
(Billion Cubic Feet)

Year and Month	Dry Gas Production	Supplemental Gaseous Fuels ^a	Net Imports	Net Storage Withdrawals ^b	Balancing Item ^c	Consumption ^d
1992 Total	17,840	118	1,921	173	-508	19,544
1993 Total	18,095	119	2,210	-36	-110	20,279
1994 Total	18,821	111	2,462	-286	-400	20,708
1995 Total	18,599	110	2,687	415	-230	21,581
1996						
January	1,591	12	249	723	-2	2,574
February	1,504	11	221	462	138	2,335
March	1,592	11	226	333	46	2,209
April	1,570	9	227	-119	139	1,826
May	1,598	6	244	-339	67	1,576
June	1,555	8	214	-388	65	1,454
July	1,591	8	222	-382	-3	1,436
August	1,590	8	221	-358	4	1,485
September	1,531	8	227	-379	12	1,399
October	1,558	9	236	-210	-62	1,531
November	1,537	10	238	272	-161	1,896
December	1,576	10	259	387	35	2,266
Total	18,793	109	2,784	2	279	21,967
1997						
January	^E 1,622	^E 13	266	684	-68	2,516
February	^E 1,477	^E 11	228	358	182	2,256
March	^E 1,628	^E 10	241	155	74	2,108
April	^E 1,547	^E 9	224	-58	72	1,794
May	^E 1,610	^E 9	232	-321	70	1,601
June	^E 1,541	^E 7	223	-364	50	1,458
July	^E 1,593	^E 8	225	-281	0	1,546
August	^E 1,582	^E 9	227	-322	26	1,522
September	^E 1,546	^E 7	226	-336	0	1,445
October	^E 1,589	^E 9	239	-211	-93	1,533
November	^E 1,574	^E 11	259	189	-148	1,885
December	^E 1,621	^E 12	246	533	-97	2,316
Total	^E18,930	^E116	2,837	27	70	21,980
1998						
January	^E 1,625	^E 12	267	466	23	2,393
February	^E 1,494	^E 10	237	299	63	2,102
March	^{RE} 1,627	^E 11	244	241	^R 2	2,122
April	^{RE} 1,557	^E 9	^E 234	-198	^R 100	^R 1,701
May	^{RE} 1,596	^E 8	^{RE} 238	-393	^R 139	^R 1,587
June	^E 1,553	^E 7	^{RE} 231	-323	^R 2	1,466
July	^E 1,611	^E 9	^E 225	-314	12	^E 1,542
August(STIFS)	^E 1,603	^E 9	^{RE} 232	^E -275	^{RE} 9	^E 1,560
September(STIFS)	^E 1,561	^E 9	^E 231	^E -230	^E -118	^E 1,453
1998 YTD	^E14,226	^E84	^E2,137	^E-726	^E206	^E15,927
1997 YTD	^E14,147	^E84	2,093	-485	408	16,246
1996 YTD	14,122	81	2,052	-447	465	16,272

^a Supplemental gaseous fuels data are only collected on an annual basis except for the Dakota Gasification Inc. coal gasification facility which provides data each month. The ratio of annual supplemental fuels (excluding Dakota Gasification Inc.) to the sum of dry gas production, net imports, and net withdrawals from storage is calculated. This ratio, which varies between .0025 and .0037, is applied to the monthly sum of these three elements. The Dakota Gasification Inc. monthly value is added to the result to produce the monthly supplemental fuels estimate.

^b Monthly and annual data for 1991 through 1996 include underground storage and liquefied natural gas storage. Data for January 1997 forward include underground storage only. See Appendix A, Explanatory Note 7 for discussion of computation procedures.

^c Represents quantities lost and imbalances in data due to differences among data sources. See Appendix A, Explanatory Note 9, for full discussion.

^d Consists of pipeline fuel use, lease and plant fuel use, vehicle fuel, and deliveries to consuming sectors as shown in Table 3.

^R = Revised Data.

^E = Estimated Data.

^{RE} = Revised Estimated Data.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 1992-1996: Energy Information Administration (EIA), *Natural Gas Annual 1996*, 1994-1995: EIA: Form EIA-627, "Annual Quantity and Value of Natural Gas Report" (1995 data only), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-191, "Monthly Underground Gas Storage Report," Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," EIA computations and *Natural Gas Annual 1996*. January 1997 through current month: EIA, Form EIA-895, "Monthly Quantity of Natural Gas Report," Form EIA-857, Form EIA-191, EIA computations, and estimates, Short-Term Integrated Forecasting System (STIFS) computations, and Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports. See Appendix A for discussion of computation and estimation procedures and revision policies.

Figure 1. Production and Consumption of Natural Gas in the United States, 1995-1999

Sources: 1995 through the current month: Table 2. Projected data: Energy Information Administration, *Short-Term Energy Outlook* (October 1997).

Table 3. Natural Gas Consumption in the United States, 1992-1998
(Billion Cubic Feet)

Year and Month	Lease and Plant Fuel ^a	Pipeline Fuel ^b	Delivered to Consumers					Total Consumption
			Residential	Commercial	Industrial	Electric Utilities	Total	
1992 Total	1,171	588	4,690	^c 2,803	7,527	2,766	17,786	19,544
1993 Total	1,172	624	4,956	^c 2,863	7,981	2,682	18,483	20,279
1994 Total	1,124	685	4,848	^c 2,897	8,167	2,987	18,899	20,708
1995 Total	1,220	700	4,850	^c 3,034	8,580	3,197	19,660	21,581
1996								
January	106	85	934	480	800	168	2,382	2,574
February	101	77	831	443	747	137	2,158	2,335
March	106	72	705	387	781	156	2,030	2,209
April	104	59	474	284	736	170	1,663	1,826
May	106	50	271	183	701	264	1,420	1,576
June	102	46	162	133	710	299	1,305	1,454
July	105	46	124	126	677	358	1,285	1,436
August	105	47	118	123	704	367	1,312	1,465
September	102	45	138	124	706	285	1,253	1,399
October	104	49	243	171	737	226	1,378	1,531
November	103	62	503	295	764	170	1,732	1,896
December	105	74	738	409	807	132	2,086	2,266
Total	1,250	711	5,241	^c 3,161	8,870	2,732	20,006	21,967
1997								
January	^E 107	82	907	478	804	139	2,328	2,516
February	^E 97	73	767	428	748	143	2,086	2,256
March	^E 107	68	609	366	768	190	1,933	2,108
April	^E 102	58	436	273	732	193	1,634	1,794
May	^E 106	52	288	213	712	231	1,443	1,601
June	^E 101	47	165	161	687	296	1,309	1,458
July	^E 105	50	129	149	685	428	1,391	1,546
August	^E 104	49	117	147	713	391	1,368	1,522
September	^E 102	47	130	146	687	333	1,296	1,445
October	^E 105	50	235	194	704	246	1,379	1,533
November	^E 104	61	499	318	723	180	1,721	1,885
December	^E 107	75	732	414	790	199	2,134	2,316
Total	^E 1,245	712	5,014	3,286	8,753	2,969	20,022	21,980
1998								
January	^E 107	78	794	445	799	171	2,209	2,393
February	^E 98	68	681	392	730	134	1,936	2,102
March	^E 107	69	635	368	749	194	1,946	2,122
April	^E 102	55	405	254	694	190	1,543	^E 1,701
May	^{RE} 105	51	219	175	744	293	1,431	^E 1,587
June	^E 102	47	151	145	641	379	1,316	1,466
July(STIFS)	^E 103	^E 50	^E 134	^E 148	^E 677	NA	^E 1,389	^E 1,542
August(STIFS)	^E 103	^E 48	^E 120	^E 145	^E 708	NA	^E 1,409	^E 1,560
September(STIFS)	^E 101	^E 48	^E 130	^E 148	^E 690	NA	^E 1,304	^E 1,453
1998 YTD^d	^E 929	^E 515	^E 3,269	^E 2,220	^E 6,431	1,361	^E 14,483	^E 15,927
1997 YTD	^E 931	526	3,548	2,361	6,536	1,193	14,789	16,246
1996 YTD	938	527	3,758	2,283	6,562	1,194	14,807	16,272

^a Plant fuel data are only collected on an annual basis and monthly lease fuel data are only collected annually. Lease and plant fuel estimates have been between 6 and 7 percent of marketed production 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 twelve months.

^b Pipeline fuel use is only collected on an annual basis. Annually it is between 3 and 4 percent of total consumption. Monthly pipeline fuel data are estimated from monthly total consumption (excluding pipeline fuel) by assuming that the preceding annual percentage remains constant for the next twelve months.

^c Vehicle fuel deliveries, in billion cubic feet, were 0.4 in 1991, 0.5 in 1992, 1.0 in 1993, 1.7 in 1994, 2.7 in 1995 and 2.9 in 1996.

^d Year-to-date volume represents months for which volume information is available in the current year.

^E = Revised Data.

^E = Estimated Data.

^{RE} = Revised Estimated Data.

NA = Not Available.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent three months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Sources: 1992-1996: Energy Information Administration (EIA): Form EIA-627, "Annual Quantity and Value of Natural Gas Report," (thru 1994), Form EIA-895 "Monthly Quantity of Natural Gas Report," (1995 forward), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-759, "Monthly Power Plant Report," EIA computations, and *Natural Gas Annual 1996*. January 1997 through the current month: EIA: Form 895, "Monthly Quantity of Natural Gas Report," Form EIA-857, Form EIA-759, and STIFS computations. See Appendix A, Explanatory Note 5, for computation procedures and revision policy.

Figure 2. Natural Gas Deliveries to Consumers in the United States, 1994-1998

Sources: *Natural Gas Annual*, Form EIA-857, and Form EIA-759.

Table 4. Selected National Average Natural Gas Prices, 1992-1998
(Dollars per Thousand Cubic Feet)

Year and Month	Wellhead Price ^a	City Gate Price	Delivered to Consumers					
			Residential Price	Commercial		Industrial		Electric Utilities Price
				Price	% of Total ^b	Price	% of Total ^b	
1992 Annual Average	1.74	3.01	5.89	4.88	83.2	2.84	30.3	2.36
1993 Annual Average	2.04	3.21	6.16	5.22	83.9	3.07	29.7	2.61
1994 Annual Average	1.85	3.07	6.41	5.44	79.3	3.05	25.5	2.28
1995 Annual Average	1.55	2.78	6.06	5.05	76.7	2.71	24.5	2.02
1996								
January	2.05	3.14	5.64	5.29	83.2	3.61	22.0	2.87
February	1.89	3.16	5.82	5.25	83.3	3.61	22.7	3.07
March	1.95	3.17	5.93	5.36	81.8	3.52	22.3	2.73
April	2.08	3.22	6.27	5.34	79.5	3.42	20.5	2.68
May	2.01	3.18	6.84	5.40	74.6	3.14	18.7	2.52
June	2.08	3.41	7.83	5.43	70.0	3.13	16.7	2.59
July	2.25	3.49	8.64	5.46	67.8	3.17	18.6	2.69
August	2.10	3.46	8.73	5.56	66.3	3.05	17.4	2.57
September	1.85	3.05	7.99	5.46	67.1	2.77	16.9	2.24
October	1.94	2.94	7.05	5.33	69.1	2.89	17.2	2.37
November	2.50	3.46	6.37	5.40	75.7	3.57	18.5	3.04
December	3.26	4.18	6.47	5.78	78.1	4.20	20.0	3.98
Annual Average	2.17	3.34	6.34	5.40	77.6	3.42	19.4	2.69
1997								
January	3.42	4.27	6.74	6.15	77.9	4.64	19.4	4.08
February	2.44	3.78	6.80	6.09	76.9	4.21	17.7	3.18
March	1.61	3.05	6.53	5.72	73.0	3.36	17.4	2.39
April	1.64	2.94	6.57	5.45	70.8	3.00	16.9	2.34
May	1.87	3.14	6.84	5.36	63.8	2.92	16.6	2.51
June	2.01	3.38	8.24	5.61	60.0	3.07	15.9	2.59
July	1.91	3.50	8.68	5.35	58.2	3.01	14.1	2.49
August	1.95	3.39	8.98	5.40	55.8	2.92	13.9	2.58
September	2.22	3.57	8.76	5.62	57.5	3.21	13.8	2.99
October	2.70	3.90	7.65	5.73	61.6	3.66	15.2	3.30
November	2.77	3.92	6.85	5.84	67.3	4.07	16.2	3.48
December	2.17	3.47	6.55	5.72	72.0	3.79	15.1	2.85
Annual Average	2.23	3.59	6.95	5.78	^R 69.3	3.54	^R 16.1	2.81
1998								
January	^E 1.72	3.28	6.45	5.57	72.3	3.68	14.9	2.64
February	^E 1.64	3.08	6.41	5.54	70.5	3.52	15.3	2.51
March	^E 1.86	3.22	6.26	5.36	71.6	3.41	16.5	2.54
April	^E 1.89	3.22	6.74	5.54	67.0	3.22	15.0	2.59
May	^E 1.88	3.12	7.60	5.61	60.3	3.12	12.4	2.46
June	^E 1.71	2.97	8.44	5.53	60.0	2.93	14.1	NA
1998 YTD^c	^E 1.78	3.17	6.63	5.52	68.8	3.34	14.7	2.54
1997 YTD	2.17	3.55	6.78	5.84	72.7	3.60	17.4	2.80
1996 YTD	2.01	3.19	6.03	5.32	80.6	3.43	20.6	2.74

^a See Appendix A, Explanatory Note 8, of the *Natural Gas Monthly (NGM)* for discussion of wellhead prices.

^b Percentage of total deliveries represented by onsystem sales, see Figure 6. See Table 24 for breakdown by State.

^c Year-to-date price represents months for which price information is available in the current year.

^R = Revised Data.

^E = Estimated Data.

NA = Not Available.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Sources: 1990-1996: Energy Information Administration (EIA) *Natural Gas Annual* 1996. 1997 forward: EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and EIA estimates. January 1997 through current month: See Appendix A, Explanatory Note 8 for estimation procedures and revision policy.

Figure 3. Average Price of Natural Gas Delivered to Consumers in the United States, 1994-1998

Source: Table 4.

Figure 4. Average Price of Natural Gas in the United States, 1994-1998

Source: Table 4.

Table 5. U.S. Natural Gas Imports, by Country, 1992-1998

(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Pipeline				LNG				Total	
	Canada		Mexico		Algeria		Other		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price		
1992 Total	2,094,387	1.84	—	—	43,116	2.54	—	—	2,137,504	1.85
1993 Total	2,266,751	2.02	1,678	1.94	81,685	2.20	—	—	2,350,115	2.03
1994 Total	2,566,049	1.86	7,013	1.99	50,778	2.28	—	—	2,623,839	1.87
1995 Total	2,816,408	1.48	6,722	1.53	17,918	2.30	—	—	2,841,048	1.49
1996										
January	259,656	2.08	1,499	2.03	2,460	2.81	—	—	263,615	2.09
February	230,546	1.94	698	2.14	2,512	2.79	—	—	233,756	1.95
March	237,668	1.91	1,259	2.34	2,599	3.06	—	—	241,526	1.92
April	230,928	1.86	1,369	2.18	4,559	2.43	—	—	236,857	1.87
May	245,522	1.70	4,024	2.14	2,612	2.58	—	—	252,158	1.72
June	225,875	1.70	711	2.35	0	—	—	—	226,587	1.70
July	232,908	1.82	1,313	2.58	2,642	3.00	—	—	236,864	1.84
August	235,199	1.80	30	1.70	2,629	2.56	—	—	237,858	1.80
September	234,206	1.60	770	1.69	0	—	^a 2,524	3.34	237,500	1.62
October	241,294	1.68	1,110	2.37	5,116	2.96	—	—	247,520	1.71
November	245,795	2.25	982	2.85	5,031	2.59	—	—	251,807	2.26
December	263,681	3.00	96	3.30	5,164	2.51	^a 2,425	3.57	271,366	3.00
Total	2,883,277	1.96	13,862	2.25	35,325	2.70	4,949	3.45	2,937,413	1.97
1997										
January	266,756	3.27	1,555	3.09	7,560	2.78	^a 2,417	3.68	278,288	3.26
February	230,352	2.50	2,526	2.49	7,667	3.00	—	—	240,545	2.52
March	251,328	1.70	3,127	1.83	2,530	2.98	—	—	256,985	1.72
April	235,431	1.66	189	1.92	2,557	2.23	—	—	238,178	1.67
May	234,345	1.81	2,380	2.03	2,552	2.20	^b 2,455	2.68	241,732	1.83
June	225,366	1.87	1,692	2.20	5,059	2.49	—	—	232,118	1.88
July	229,479	1.82	1,088	1.98	5,026	2.48	—	—	235,593	1.84
August	237,142	1.81	6	2.35	7,535	2.43	—	—	244,684	1.83
September	232,090	2.00	29	2.47	5,030	2.41	^b 2,337	2.88	239,486	2.01
October	245,742	2.32	965	2.92	5,050	2.70	—	—	251,758	2.33
November	257,782	2.71	1,874	2.82	7,542	2.89	^b 4,893	3.07	272,091	2.72
December	253,338	2.17	1,810	2.12	7,567	2.88	—	—	262,716	2.19
Total	2,899,152	2.15	17,243	2.32	65,675	2.67	12,103	3.08	2,994,173	2.17
1998										
January	273,189	2.02	56	2.11	10,105	2.89	—	—	283,351	2.05
February	235,288	1.95	2,824	1.97	7,607	2.78	^b 2,171	3.99	247,890	1.99
March	258,067	1.99	382	2.20	5,166	3.19	—	—	263,615	2.01
April	242,191	NA	^e 3,003	NA	2,549	NA	—	—	^e 247,743	NA
May	^{re} 242,041	NA	^e 1,020	NA	7,596	NA	—	—	^{re} 250,657	NA
June	^{re} 236,300	NA	^e 0	—	5,125	NA	^b 2,441	NA	^{re} 243,866	NA
July	^e 233,705	NA	^e 1,000	NA	5,086	NA	—	—	^e 239,791	NA
1998 YTD	^e 1,720,781	NA	^e 8,285	NA	43,235	NA	4,612	NA	^e 1,776,913	NA
1997 YTD	1,673,057	2.11	12,557	2.22	32,951	2.67	4,873	3.18	1,723,438	2.13
1996 YTD	1,663,103	1.86	10,874	2.22	17,385	2.74	0	—	1,691,362	1.87

^a Received from the United Arab Emirates.

^b Received from Australia.

^r = Revised Data.

^e = Estimated Data.

^{re} = Revised Estimated Data.

NA = Not Available.

— = Not Applicable.

 Sources: 1991-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

Table 6. U.S. Natural Gas Exports, by Country, 1992-1998
(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Pipeline				LNG		Total	
	Canada		Mexico		Japan		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price		
1992 Total	67,777	1.83	95,973	1.90	52,532	3.43	216,282	2.25
1993 Total	44,518	2.14	39,676	2.02	55,989	3.34	140,183	2.59
1994 Total	52,556	2.42	46,500	1.68	62,682	3.18	161,738	2.50
1995 Total	27,554	1.96	61,283	1.50	65,283	3.41	154,119	2.39
1996								
January	7,044	3.13	1,607	1.98	5,534	3.38	14,186	3.10
February	5,207	2.71	2,000	1.82	5,621	3.35	12,828	2.85
March	6,616	2.79	2,860	1.81	5,642	3.55	15,118	2.88
April	2,430	2.21	1,924	1.69	5,654	3.57	10,008	2.88
May	2,809	2.15	1,899	1.84	3,750	3.61	8,458	2.73
June	3,001	2.25	3,486	2.16	5,651	3.65	12,138	2.87
July	3,777	2.45	3,062	2.24	7,546	3.66	14,385	3.04
August	2,197	2.30	9,176	2.11	5,663	3.67	17,036	2.65
September	2,514	1.94	2,389	1.73	5,663	3.73	10,566	2.85
October	4,311	1.97	1,990	1.85	5,589	3.84	11,889	2.83
November	6,776	2.77	1,533	2.56	5,670	4.01	13,979	3.25
December	5,222	3.67	1,914	3.72	5,665	3.73	12,801	3.70
Total	51,905	2.67	33,840	2.11	67,648	3.65	153,393	2.97
1997								
January	4,193	4.08	2,231	4.08	5,604	4.25	12,028	4.16
February	5,169	3.02	1,677	2.32	5,596	4.20	12,443	3.46
March	9,115	2.05	1,486	1.55	5,675	4.16	16,276	2.74
April	5,168	1.78	3,044	1.83	5,660	4.06	13,872	2.72
May	4,107	2.08	2,177	1.96	3,812	3.83	10,097	2.72
June	3,162	2.28	2,579	2.14	3,786	3.72	9,527	2.81
July	3,257	2.14	3,122	2.17	3,756	3.66	10,136	2.71
August	3,820	2.15	6,282	2.37	7,532	3.62	17,633	2.86
September	3,129	2.37	6,159	2.59	3,767	3.58	13,055	2.83
October	2,432	2.85	4,182	2.87	5,676	3.58	12,289	3.19
November	5,579	3.10	1,782	3.16	5,691	3.66	13,051	3.35
December	7,318	2.58	3,650	2.30	5,631	3.58	16,600	2.86
Total	56,447	2.52	38,372	2.46	62,187	3.83	157,006	3.02
1998								
January	5,056	2.53	4,257	2.11	7,446	3.67	16,759	2.93
February	4,474	2.14	3,119	2.06	3,726	3.42	11,319	2.54
March	7,818	2.25	4,204	2.14	7,435	3.66	19,457	2.76
April	^E 5,800	NA	^E 2,466	NA	5,702	NA	^E 13,968	NA
May	^E 5,800	NA	^E 5,252	NA	1,891	NA	^E 12,943	NA
June	^{RE} 2,500	NA	^E 5,112	NA	5,695	NA	^{RE} 13,308	NA
July	^E 3,800	NA	^E 5,775	NA	5,681	NA	^E 15,256	NA
1998 YTD	^E 35,248	NA	^E 30,186	NA	37,576	NA	^E 103,010	NA
1997 YTD	34,170	2.44	16,317	2.29	33,891	4.02	84,377	3.05
1996 YTD	30,885	2.66	16,838	1.97	39,399	3.54	87,121	2.92

^E = Estimated Data.

^{RE} = Revised Estimated Data.

NA = Not Available.

Sources: 1991-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

Table 7. Marketed Production of Natural Gas, by State, 1992-1998
(Million Cubic Feet)

Year and Month	Alabama ^b	Alaska	Arizona	California	Colorado	Florida	Kansas
1992 Total	355,099	443,597	771	365,632	323,041	6,657	658,007
1993 Total	388,024	430,350	597	315,851	400,985	7,085	686,347
1994 Total	515,272	555,402	752	309,427	453,207	7,486	712,730
1995 Total	519,661	469,550	558	279,555	523,084	6,463	721,436
1996							
January	45,653	44,655	41	20,714	48,619	518	62,976
February	42,668	40,433	42	22,910	45,504	493	62,683
March	45,334	43,738	45	24,686	47,843	460	63,027
April	43,868	39,694	36	23,988	45,293	456	60,858
May	45,160	36,348	39	24,091	46,893	483	62,194
June	43,319	37,334	45	23,281	45,212	503	56,318
July	43,257	37,272	30	24,495	45,570	500	57,095
August	43,873	37,239	43	24,547	51,269	540	55,144
September	42,834	38,039	31	23,826	45,437	537	55,563
October	42,200	41,204	34	24,261	50,245	468	57,589
November	45,395	40,706	37	24,493	49,824	517	58,460
December	47,278	44,166	40	25,203	50,363	531	60,890
Total	530,841	480,828	463	286,494	572,071	6,006	712,796
1997							
January	32,136	45,409	46	24,427	47,843	525	60,197
February	29,307	40,017	41	23,877	47,967	510	54,234
March	32,291	43,559	42	23,879	52,372	607	60,099
April	32,077	39,267	39	23,223	48,571	552	57,085
May	31,326	35,821	36	23,690	48,444	538	61,661
June	30,137	37,634	28	23,507	44,744	448	57,731
July	31,331	35,680	31	23,981	50,319	512	58,234
August	30,914	36,425	30	23,831	52,235	503	53,374
September	33,496	34,854	29	23,792	50,425	517	49,658
October	34,689	39,929	34	24,490	51,450	450	53,815
November	33,848	41,052	57	27,505	45,507	437	54,152
December	33,386	44,965	39	24,896	55,769	489	53,834
Total	384,937	474,612	451	291,098	595,647	6,087	674,075
1998							
January	32,739	43,715	43	24,810	53,025	479	^E 53,542
February	29,230	38,016	42	21,719	51,770	436	^E 50,752
March	33,505	41,026	53	22,869	56,834	466	^E 52,145
April	32,406	^E 36,111	43	21,952	55,760	480	^E 50,727
May	33,656	^E 31,784	38	^E 22,124	56,151	512	^E 53,006
1998 YTD	161,536	^E 190,652	218	^E 113,475	273,540	2,373	^E 290,171
1997 YTD	157,137	204,073	204	119,096	245,198	2,732	293,277
1996 YTD	222,684	204,868	203	116,388	234,152	2,410	311,737

See footnotes at end of table.

Table 7. Marketed Production of Natural Gas, by State, 1992-1998
(Million Cubic Feet) — Continued

Year and Month	Louisiana ^b	Michigan	Mississippi	Montana	New Mexico	North Dakota	Oklahoma
1992 Total	4,914,300	194,815	91,697	53,867	1,268,863	54,883	2,017,356
1993 Total	4,991,138	204,635	80,695	54,528	1,409,429	59,851	2,049,942
1994 Total	5,169,705	222,657	63,448	50,416	1,557,689	57,805	1,934,864
1995 Total	5,108,366	238,203	95,533	50,264	1,625,837	49,468	1,811,734
1996							
January	437,274	21,912	8,089	4,503	135,594	4,276	143,693
February	412,611	18,686	7,386	4,266	126,370	3,880	139,115
March	446,371	11,208	8,385	4,443	138,091	4,164	131,701
April	436,014	32,072	8,225	4,098	132,572	4,122	147,949
May	451,148	18,021	9,026	4,244	138,946	4,273	149,425
June	434,668	23,572	8,983	3,496	131,778	3,990	143,675
July	449,052	27,119	9,335	3,603	125,193	4,047	146,451
August	449,461	23,261	9,193	4,050	126,967	4,096	148,463
September	431,768	20,208	8,641	4,172	122,040	4,185	143,302
October	421,252	20,374	8,996	4,668	123,570	4,246	150,322
November	427,566	16,081	8,487	4,521	124,377	4,216	146,828
December	443,563	13,227	8,518	4,933	128,590	4,178	143,965
Total	5,240,747	245,740	103,263	50,996	1,554,087	49,674	1,734,887
1997							
January	466,044	35,849	8,089	4,638	125,382	4,035	144,608
February	425,451	17,314	7,807	4,380	125,445	3,921	134,742
March	^E 470,994	25,435	8,470	4,608	124,026	4,313	146,588
April	^E 458,943	13,281	8,120	4,320	123,657	4,176	136,080
May	^E 469,736	40,848	8,611	4,166	122,869	4,542	141,818
June	461,455	19,934	8,893	3,792	123,509	4,341	137,044
July	^E 468,677	41,068	8,636	4,080	123,507	4,420	143,141
August	^E 469,613	19,081	9,626	4,172	123,966	4,454	146,381
September	461,975	^E 19,546	9,162	^E 4,348	124,586	4,276	141,645
October	458,564	20,966	10,084	^E 4,959	124,710	4,507	148,583
November	457,192	26,661	9,683	^E 4,994	^E 125,632	4,434	146,638
December	460,418	30,610	9,955	^E 5,260	^E 129,777	4,634	145,859
Total	^E 5,529,062	^E 310,591	107,137	^E 53,718	^E 1,497,069	52,053	1,713,127
1998							
January	463,097	28,439	9,639	^E 5,173	142,312	4,623	145,522
February	422,324	28,259	8,574	^E 4,754	142,383	4,020	134,651
March	468,307	30,719	9,781	^E 5,056	^R 141,671	4,337	142,541
April	449,961	17,983	8,957	^E 4,703	^R 140,963	4,284	134,885
May	461,826	^E 21,890	9,121	^E 4,627	140,258	4,488	142,725
1998 YTD	2,265,515	^E 127,291	46,073	^E 24,312	707,587	21,751	700,324
1997 YTD	^E 2,291,168	132,727	41,097	22,113	621,380	20,987	703,836
1996 YTD	2,183,417	101,899	41,111	21,553	671,574	20,716	711,882

See footnotes at end of table.

Table 7. Marketed Production of Natural Gas, by State, 1992-1998
(Million Cubic Feet) — Continued

Year and Month	Oregon	Texas ^c	Utah	Wyoming	Other ^a States	U.S. Total
1992 Total	2,580	6,145,862	171,293	842,576	800,913	18,711,808
1993 Total	4,003	6,249,624	225,401	634,957	788,472	18,981,915
1994 Total	3,221	6,353,844	270,858	696,018	774,724	19,709,525
1995 Total	1,923	6,330,048	241,290	673,775	759,728	19,506,474
1996						
January	120	545,658	19,998	58,691	69,638	1,672,623
February	75	512,557	18,027	56,037	66,726	1,580,472
March	105	552,700	21,650	57,270	72,373	1,673,596
April	121	529,015	20,864	54,662	65,643	1,649,552
May	140	547,843	21,035	52,805	67,061	1,679,176
June	132	533,168	20,759	59,346	64,752	1,634,329
July	146	557,986	20,573	55,519	64,500	1,671,743
August	117	550,499	21,137	54,567	66,523	1,670,989
September	132	529,524	21,589	51,949	65,361	1,609,140
October	133	543,264	22,152	53,649	69,163	1,637,792
November	113	517,147	21,606	53,990	70,997	1,615,362
December	102	529,659	21,376	57,551	71,875	1,656,019
Total	1,439	6,449,022	250,767	666,036	814,612	19,750,793
1997						
January	105	560,683	21,782	53,272	^E 69,157	^E 1,704,228
February	98	509,089	19,115	45,143	^E 64,219	^E 1,552,675
March	101	560,042	21,912	62,872	^E 68,518	^E 1,710,728
April	102	531,761	19,570	60,661	^E 64,329	^E 1,625,816
May	102	549,243	22,053	62,147	^E 64,899	^E 1,692,549
June	97	527,306	19,815	55,384	^E 64,227	^E 1,620,026
July	98	533,930	21,711	60,873	^E 64,033	^E 1,674,262
August	99	539,321	21,024	^E 62,134	^E 65,381	^E 1,662,565
September	86	520,843	22,007	60,378	^E 63,629	^E 1,625,253
October	97	535,219	23,006	66,373	^E 67,561	^E 1,669,486
November	91	521,531	22,840	63,949	^E 67,586	^E 1,653,789
December	96	542,516	22,307	^E 66,746	^E 72,224	^E 1,703,778
Total	1,173	6,431,484	257,139	^E719,932	^E795,764	^E19,895,156
1998						
January	90	542,462	21,826	66,074	^E 70,408	^E 1,708,016
February	79	491,530	21,758	53,970	^E 65,555	^E 1,569,822
March	96	541,311	23,656	65,704	^E 70,223	^{RE} 1,710,299
April	92	525,602	^E 23,513	61,974	^E 65,681	^{RE} 1,636,078
May	92	550,442	^E 23,611	54,304	^E 66,263	^E 1,676,919
1998 YTD	449	2,651,347	^E114,363	302,027	^E338,131	^E8,301,134
1997 YTD	508	2,710,818	104,431	284,094	^E331,122	^E8,285,997
1996 YTD	563	2,687,774	101,575	279,466	341,440	8,255,419

^a Includes Arkansas, Illinois, Indiana, Kentucky, Maryland, Missouri, Nebraska, Nevada, New York, Ohio, Pennsylvania, South Dakota, Tennessee, Virginia and West Virginia. The 1997 monthly values for these States are estimated.

^b All data for 1991 through 1996 include Federal Offshore production. For 1997 and 1998, data for Alabama exclude Federal Offshore production and data for Louisiana include both the Louisiana and Alabama portions of Federal Offshore production.

^c Federal offshore production volumes are included.

^R = Revised Data.

^E = Estimated Data.

^{RE} = Revised Estimated Data.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.

Sources: 1991-1996: Energy Information Administration (EIA), *Natural Gas Annual* 1996. 1997 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," Minerals Management Service reports, and EIA computations.

**Table 8. Gross Withdrawals and Marketed Production of Natural Gas by State,
May 1998**
(Million Cubic Feet)

State	Gross Withdrawals			Repressuring	Nonhydro- carbon Gases Removed ^a	Vented and Flared	Marketed Production
	From Gas Wells	From Oil Wells	Total				
Alabama	36,304	674	36,978	1,155	2,024	144	33,656
Alaska	^E 12,730	^E 213,491	^E 226,221	^E 193,984	0	^E 453	^E 31,784
Arizona	35	3	38	0	0	0	38
California	^E 6,178	^E 24,985	^E 31,163	^E 8,822	^E 146	^E 71	^E 22,124
Colorado	48,837	8,175	57,012	764	0	98	56,151
Florida	0	579	579	0	66	0	512
Kansas	^E 48,897	^E 4,252	^E 53,149	^E 90	0	^E 53	^E 53,006
Louisiana	406,404	61,094	467,498	3,667	0	2,006	461,826
Michigan	^E 18,954	^E 3,316	^E 22,270	^E 157	0	^E 223	^E 21,890
Mississippi	9,746	1,018	10,765	683	727	233	9,121
Montana	^E 4,109	^E 559	^E 4,668	^E 6	0	^E 35	^E 4,627
New Mexico	132,394	22,950	155,343	946	13,888	252	140,258
North Dakota	1,508	3,399	4,907	0	5	415	4,488
Oklahoma	129,890	12,835	142,725	0	0	0	142,725
Oregon	109	0	109	4	13	0	92
Texas	488,055	118,095	606,150	39,227	13,931	2,550	550,442
Utah	^E 20,550	^E 3,823	^E 24,373	^E 48	0	^E 714	^E 23,611
Wyoming	83,217	4,892	88,109	10,675	11,557	11,572	54,304
Other States	^E 62,648	^E 4,422	^E 67,071	^E 191	0	^E 616	^E 66,263
Total	^E 1,510,565	^E 488,563	^E 1,999,128	^E 260,417	^E 42,357	^E 19,435	^E 1,676,919

^a See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.

^E = Estimated Data.

Notes: All monthly data are considered preliminary until publication of the *Natural Gas Annual* for that year. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.

Source: Form EIA-895, "Monthly Quantity of Natural Gas Report."

Table 9. Underground Natural Gas Storage - All Operators, 1992-1998
(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 ^b	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^c
1992 Total^a	4,044	2,597	6,641	-227	-8.0	2,555	2,724	168
1993 Total^a	4,327	2,322	6,649	-275	-10.6	2,760	2,717	-43
1994 Total^a	4,360	2,606	6,966	284	12.2	2,796	2,508	-288
1995 Total^a	4,349	2,153	6,503	-453	3.1	2,566	2,974	408
1996								
January	4,354	1,462	5,817	-583	-28.5	49	749	700
February	4,349	1,021	5,369	-521	-33.8	97	544	447
March	4,290	758	5,048	-574	-43.1	80	403	323
April	4,312	854	5,166	-525	-38.1	227	112	-115
May	4,332	1,161	5,493	-507	-30.4	373	45	-328
June	4,341	1,529	5,870	-485	-24.1	410	35	-375
July	4,336	1,898	6,234	-404	-17.5	418	49	-370
August	4,332	2,245	6,577	-250	-10.0	400	54	-346
September	4,338	2,605	6,943	-197	-7.0	398	32	-366
October	4,335	2,810	7,145	-186	-6.2	276	73	-203
November	4,339	2,549	6,889	-179	-6.6	90	354	264
December	4,341	2,173	6,513	19	0.9	86	461	374
Total	—	—	—	—	—	2,906	2,911	6
1997								
January	4,348	1,496	5,844	34	2.3	69	752	684
February	4,342	1,140	5,482	120	11.7	55	413	358
March	4,346	991	5,337	233	30.7	131	285	155
April	4,342	1,051	5,393	197	23.1	205	146	-58
May	4,343	1,362	5,705	201	17.3	362	41	-321
June	4,357	1,730	6,087	201	13.2	405	41	-364
July	4,356	2,014	6,369	116	6.1	359	78	-281
August	4,357	2,336	6,693	92	4.1	378	56	-322
September	4,360	2,672	7,032	67	2.6	380	44	-336
October	4,358	2,886	7,244	75	2.7	295	84	-211
November	4,360	2,698	7,058	149	5.9	113	302	189
December	4,350	2,170	6,520	-2	-0.1	45	579	533
Total	—	—	—	—	—	2,796	2,823	27
1998								
January	4,344	1,711	6,055	215	14.4	68	534	466
February	4,338	1,418	5,756	278	24.4	74	373	299
March	4,339	1,184	5,523	193	19.5	136	377	241
April	4,336	1,381	5,718	330	31.4	277	78	-198
May	4,338	1,773	6,111	412	30.2	435	42	-393
June	4,343	2,101	6,444	371	21.4	375	52	-323
July	4,337	2,416	6,753	402	20.0	366	52	-314
August(STIFS)	^{RE} 4,337	^{RE} 2,691	^{RE} 7,028	^{RE} 354	^{RE} 15.2	NA	NA	^E -275
September(STIFS)	^E 4,337	^E 2,921	^E 7,258	^E 249	^E 9.3	NA	NA	^E -230

^a Total as of December 31.

^b Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1991 - 7,993; 1992 - 7,932; 1993 - 7,989; 1994 - 8,043; 1995 - 7,927; 1996 - 8,159; and 1997 - 8,128.

^c Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.

^R = Revised Data.

^E = Estimated Data.

^{RE} = Revised Estimated Data.

NA = Not Available.

— = Not Applicable.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory Note 7 of the *Natural Gas Monthly* 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. Geographic coverage is the 50 States and the District of Columbia. In January 1995, 2 billion cubic feet was added to base gas for two new respondents. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

Figure 5. Working Gas in Underground Natural Gas Storage in the United States, 1995-1998

Sources: Energy Information Administration, Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 10. Underground Natural Gas Storage - by Season, 1995-1998
(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
October 1995	4,338	2,996	7,334	--	--	--	--	--
1995-96 Heating Season								
November	4,342	2,728	7,070	-249	-8.4	96	367	272
December	4,349	2,153	6,503	-453	-17.4	53	635	582
January	4,354	1,462	5,817	-583	-28.5	49	749	700
February	4,349	1,021	5,369	-521	-33.8	97	544	447
March	4,290	758	5,048	-574	-43.1	80	403	323
Total	--	--	--	--	--	375	2,698	2,323
1996 Refill Season								
April	4,312	854	5,166	-525	-38.1	227	112	-115
May	4,332	1,161	5,493	-507	-30.4	373	45	-328
June	4,341	1,529	5,870	-485	-24.1	410	35	-375
July	4,336	1,898	6,234	-404	-17.5	418	49	-370
August	4,332	2,245	6,577	-250	-10.0	400	54	-346
September	4,338	2,605	6,943	-197	-7.0	398	32	-366
October	4,335	2,810	7,145	-186	-6.2	276	73	-203
Total	--	--	--	--	--	2,502	401	-2,102
1996-97 Heating Season								
November	4,339	2,549	6,889	-179	-6.6	90	354	264
December	4,341	2,173	6,513	19	0.9	86	461	374
January	4,348	1,496	5,844	34	2.3	69	752	684
February	4,342	1,140	5,482	120	11.7	55	413	358
March	4,346	991	5,337	233	30.7	131	285	155
Total	--	--	--	--	--	431	2,266	1,835
1997 Refill Season								
April	4,342	1,051	5,393	197	23.1	205	146	-58
May	4,343	1,362	5,705	201	17.3	362	41	-321
June	4,357	1,730	6,087	201	13.2	405	41	-364
July	4,356	2,014	6,369	116	6.1	359	78	-281
August	4,357	2,336	6,693	92	4.1	378	56	-322
September	4,360	2,672	7,032	67	2.6	380	44	-336
October	4,358	2,886	7,244	75	2.7	295	84	-211
Total	--	--	--	--	--	2,384	491	-1,893
1997-98 Heating Season								
November	4,360	2,698	7,058	149	5.9	113	302	189
December	4,350	2,170	6,520	-2	-0.1	45	579	533
January	4,344	1,711	6,055	215	14.4	68	534	466
February	4,338	1,418	5,756	278	24.4	74	373	299
March	4,339	1,184	5,523	193	19.5	136	377	241
Total	--	--	--	--	--	436	2,166	1,730
1998 Refill Season								
April	4,336	1,381	5,718	330	31.4	277	78	-198
May	4,338	1,773	6,111	412	30.2	435	42	-393
June	4,343	2,101	6,444	371	21.4	375	52	-323
July	4,337	2,416	6,753	402	20.0	36 ^R	52	-314
August(STIFS)	^{RE} 4,337	^{RE} 2,691	^{RE} 7,028	^{RE} 354	^{RE} 15.2	NA	NA	^E -275
September(STIFS)	^E 4,337	^E 2,921	^E 7,258	^E 249	^E 9.3	NA	NA	^E -230

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

^R = Revised Data.

^E = Estimated Data.

^{RE} = Revised Estimated Data.

NA = Not Available.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory Note 7 of the *Natural Gas Monthly* 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. Geographic coverage is the 50 States and the District of Columbia. In January 1995, 2 billion cubic feet was added to base gas for two new respondents. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

Table 11. Underground Natural Gas Storage - Salt Cavern Storage Fields, 1996-1998
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Salt Cavern 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
1996								
January	63	59	122	-14	-19.3	23	41	17
February	63	48	111	-17	-26.2	23	33	10
March	63	38	101	-21	-35.2	21	32	11
April	63	57	120	-9	-13.7	30	10	-20
May	63	62	126	-11	-15.1	19	13	-6
June	63	71	135	-7	-8.9	21	12	-9
July	60	71	131	-5	-6.7	20	14	-6
August	60	76	136	13	20.5	21	16	-5
September	60	85	145	4	5.0	23	13	-9
October	60	88	148	0	0.4	17	14	-3
November	64	87	151	3	4.0	16	20	5
December	64	85	149	14	18.8	25	28	2
Total	—	—	—	—	—	258	246	-13
1997								
January	65	57	122	-2	-3.1	21	50	30
February	59	49	109	2	4.0	15	23	8
March	65	56	121	18	47.3	22	16	-6
April	65	58	123	1	1.8	21	19	-3
May	65	73	138	11	17.3	27	13	-14
June	66	80	145	8	11.7	22	15	-7
July	65	66	131	-5	-7.5	15	29	14
August	65	67	132	-9	-12.4	23	22	-1
September	65	78	143	-7	-8.7	26	14	-12
October	66	93	159	5	5.6	30	14	-16
November	67	95	162	8	9.1	25	23	-2
December	67	82	150	-3	-3.1	18	31	12
Total	—	—	—	—	—	266	270	4
1998								
January	66	70	136	13	22.4	17	31	14
February	65	67	132	18	35.9	17	21	3
March	68	64	132	8	14.4	23	28	6
April	68	80	148	22	37.9	29	11	-17
May	68	83	150	9	12.9	26	22	-3
June	66	83	149	3	4.0	21	23	2
July	66	91	157	26	39.2	26	18	-8

— = Not Applicable.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* 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. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 12. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 1996-1998
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Non-Salt Cavern 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
1996								
January	4,291	1,404	5,695	-569	-28.8	26	708	682
February	4,286	973	5,259	-504	-34.1	73	510	437
March	4,228	720	4,948	-553	-43.4	59	371	312
April	4,249	797	5,046	-516	-39.3	197	102	-95
May	4,268	1,099	5,367	-496	-31.1	354	32	-322
June	4,277	1,458	5,735	-478	-24.7	390	23	-366
July	4,276	1,827	6,103	-399	-17.9	398	34	-363
August	4,272	2,169	6,441	-263	-10.8	380	39	-341
September	4,277	2,520	6,797	-201	-7.4	376	19	-357
October	4,275	2,722	6,997	-186	-6.4	259	59	-200
November	4,275	2,462	6,737	-183	-6.9	75	333	259
December	4,277	2,087	6,364	6	0.3	61	433	372
Total	—	—	—	—	—	2,647	2,665	18
1997								
January	4,283	1,439	5,722	36	2.5	48	702	654
February	4,283	1,091	5,374	118	12.1	40	390	350
March	4,281	935	5,216	215	29.9	109	270	161
April	4,277	993	5,270	196	24.6	184	128	-56
May	4,278	1,289	5,567	190	17.3	335	28	-307
June	4,291	1,651	5,942	193	13.2	383	26	-357
July	4,290	1,948	6,238	121	6.6	344	49	-295
August	4,291	2,270	6,561	101	4.7	355	34	-321
September	4,295	2,595	6,890	75	3.0	354	30	-324
October	4,292	2,793	7,085	70	2.6	265	70	-195
November	4,293	2,603	6,897	141	5.7	88	279	191
December	4,283	2,088	6,371	0	0.0	27	548	521
Total	—	—	—	—	—	2,530	2,553	23
1998								
January	4,278	1,641	5,920	202	14.0	51	504	453
February	4,273	1,351	5,624	260	23.9	56	352	296
March	4,271	1,120	5,391	185	19.8	113	349	236
April	4,269	1,301	5,570	308	31.0	248	67	-181
May	4,270	1,691	5,961	402	31.2	409	20	-390
June	4,277	2,018	6,295	367	22.3	354	29	-325
July	4,271	2,324	6,596	376	19.3	340	34	-306

— = Not Applicable.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* 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. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998
(Volumes in Million Cubic Feet)

State	1998						
	July	June	May	April	March	February	January
Alabama	9	-623	-144	-245	248	187	396
Arkansas	-1,034	-1,100	-1,046	-471	1,039	875	1,057
California	-9,435	-27,493	-29,210	-10,710	-2,257	26,766	29,805
Colorado	-4,060	-3,907	-6,040	3,534	3,928	6,337	3,510
Illinois	-25,062	-31,348	-25,967	-293	28,186	36,082	58,036
Indiana	-2,476	-575	-446	917	4,249	3,322	4,144
Iowa	-11,525	-8,405	-3,600	348	6,692	5,335	18,905
Kansas	-13,108	-6,267	-19,324	-6,954	14,438	8,180	15,103
Kentucky	-10,622	-8,137	-11,793	-2,480	7,768	9,981	9,559
Louisiana	-25,597	-14,635	-22,794	-21,191	7,400	5,164	21,574
Maryland	-2,924	-1,251	-808	-1,127	1,631	2,745	3,236
Michigan	-60,857	-69,589	-69,296	-31,779	55,388	45,886	84,170
Minnesota	-289	-169	0	159	416	203	444
Mississippi	-5,961	-2,887	-3,438	-2,757	2,405	4,251	7,431
Missouri	8	143	-460	48	423	10	458
Montana	-2,295	-2,024	-2,571	224	3,017	2,554	4,421
Nebraska	-796	-528	-860	754	1,090	355	376
New Mexico	-191	-180	-1,120	287	658	-130	-412
New York	-8,108	-8,786	-11,267	-3,673	7,977	9,548	11,582
Ohio	-31,220	-25,882	-35,968	-14,906	28,619	34,023	34,810
Oklahoma	-7,554	-12,460	-23,277	-21,343	7,159	737	21,199
Oregon	-852	-1,411	0	81	934	1,253	540
Pennsylvania	-31,998	-34,236	-57,800	-32,842	38,957	49,786	57,788
Texas	-18,872	-20,145	-27,286	-40,395	-9,062	-3,341	35,935
Utah	-7,265	-8,225	-7,364	-596	1,199	6,783	7,613
Washington	-312	-2,963	-3,932	1,544	3,329	4,131	-58
West Virginia	-28,560	-26,404	-26,003	-14,607	22,818	36,285	30,647
Wyoming	-2,807	-3,406	-1,344	89	2,611	2,059	3,990
AGA Regions							
Producing	-72,318	-57,675	-98,285	-92,824	24,038	15,735	101,887
Eastern Consuming	-214,131	-215,621	-244,412	-99,884	204,045	233,545	314,105
Western Consuming	-27,316	-49,599	-50,461	-5,674	13,177	50,086	50,266
Total	-313,764	-322,895	-393,158	-198,382	241,260	299,366	466,258

See footnotes at end of table.

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998
(Volumes in Million Cubic Feet) — Continued

State	1997						
	Total	December	November	October	September	August	July
Alabama	-162	243	243	-251	-262	-286	-43
Arkansas	251	1,526	651	271	-1,048	-1,234	-1,472
California	14,425	58,445	2,749	-11,834	-6,817	-8,032	-11,406
Colorado	384	5,111	2,545	458	-5,141	-4,488	-5,540
Illinois	-11,140	45,338	2,735	-28,914	-36,161	-35,848	-32,648
Indiana	365	4,036	-925	-3,135	-4,603	-3,757	-3,309
Iowa	-6,207	16,932	554	-8,358	-12,762	-10,938	-8,777
Kansas	-12,416	12,485	8,499	-7,912	-13,678	-11,439	-3,703
Kentucky	3,182	10,772	4,043	-2,925	-7,983	-6,520	-7,391
Louisiana	-7,721	43,862	21,196	-23,999	-29,222	-15,259	-11,713
Maryland	-148	1,312	53	-2,283	-2,766	-2,292	-1,497
Michigan	-702	77,495	53,120	-32,347	-64,478	-72,202	-74,634
Minnesota	-303	5	4	0	-130	-137	-321
Mississippi	3,703	8,471	1,122	-2,145	-5,204	-3,115	709
Missouri	-453	228	-207	-215	-240	-379	-433
Montana	11,955	3,168	2,753	1,015	-1,490	-2,339	-2,710
Nebraska	-1,545	944	126	-66	-1,091	-964	-75
New Mexico	2,065	2,500	25	-1,305	-853	-328	587
New York	-131	10,285	4,803	-2,343	-6,626	-11,544	-11,628
Ohio	-6,964	40,390	15,498	-8,799	-23,418	-32,053	-34,093
Oklahoma	-10,892	24,727	13,548	-19,571	-14,433	-8,317	-864
Oregon	-1,019	1,036	-250	-93	-391	-1,123	-1,240
Pennsylvania	28,252	53,756	25,976	-16,030	-48,951	-44,991	-41,099
Texas	11,896	54,705	19,105	-30,561	-21,242	-13,220	10,013
Utah	-7,571	13,169	2,721	-1,301	-3,235	-5,284	-8,117
Washington	-904	3,177	90	707	-2,267	990	-490
West Virginia	17,744	36,345	6,670	-8,103	-18,997	-24,020	-26,065
Wyoming	963	3,015	1,918	-577	-2,424	-2,712	-3,393
AGA Regions							
Producing	-13,114	148,276	64,145	-85,222	-85,680	-52,913	-6,442
Eastern Consuming	22,091	298,078	112,688	-113,768	-228,337	-245,796	-241,693
Western Consuming	17,929	87,127	12,530	-11,625	-21,894	-23,125	-33,218
Total	26,906	533,481	189,363	-210,615	-335,912	-321,834	-281,353

See footnotes at end of table.

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998
(Volumes in Million Cubic Feet) — Continued

State	1997					
	June	May	April	March	February	January
Alabama	-93	-271	-130	-25	184	531
Arkansas	-1,340	-608	178	342	1,006	1,978
California	-23,191	-24,048	-19,220	-441	19,742	38,477
Colorado	-5,257	-5,328	5,569	2,069	4,862	5,523
Illinois	-28,038	-23,880	-546	23,189	39,774	63,858
Indiana	-1,914	-110	1,444	2,498	2,866	7,272
Iowa	-8,361	-3,473	1,627	2,953	8,469	15,926
Kansas	-12,195	-9,699	-1,605	4,096	9,102	13,633
Kentucky	-8,991	-7,821	-343	4,166	8,068	18,108
Louisiana	-19,702	-19,500	-3,923	-18,817	21,080	48,276
Maryland	-1,657	-1,590	133	1,903	2,662	5,873
Michigan	-72,604	-46,126	-13,752	53,314	71,108	120,403
Minnesota	-312	-273	-31	188	117	588
Mississippi	-3,812	-5,552	442	-2,306	2,924	12,169
Missouri	-112	-1,200	56	1,174	-252	1,126
Montana	-1,633	-846	1,810	2,591	3,983	5,651
Nebraska	-797	-708	-43	-241	504	867
New Mexico	-534	-1,228	583	501	1,527	591
New York	-10,571	-7,770	-1,700	9,210	10,116	17,636
Ohio	-37,335	-34,081	-1,385	21,557	28,120	58,636
Oklahoma	-8,028	-18,258	-7,130	-8,092	7,912	27,616
Oregon	-1,602	-1,239	543	920	1,078	1,341
Pennsylvania	-49,619	-44,272	-3,306	50,263	52,298	94,228
Texas	-20,500	-27,751	-17,395	-21,183	24,869	55,056
Utah	-7,950	-4,255	-2,150	-2,620	2,520	8,931
Washington	-3,766	-5,880	-66	3,217	1,798	1,587
West Virginia	-31,691	-23,964	1,715	23,312	28,900	53,643
Wyoming	-2,290	-1,119	127	1,082	2,976	4,361
AGA Regions						
Producing	-66,111	-82,596	-28,850	-45,460	68,420	159,319
Eastern Consuming	-251,783	-195,265	-16,231	193,275	252,817	458,106
Western Consuming	-46,001	-42,987	-13,416	7,006	37,076	66,459
Total	-363,895	-320,849	-58,498	154,821	358,313	683,884

See footnotes at end of table.

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998

(Volumes in Million Cubic Feet) — Continued

State	1996						
	Total	December	November	October	September	August	July
Alabama	-1,224	761	129	-117	-440	-395	-205
Arkansas	64	644	562	-603	-1,153	-615	-744
California	51,292	14,985	-2,885	-6,393	-6,822	15,439	7,028
Colorado	-1,004	2,923	92	-87	-3,828	-3,722	-5,347
Illinois	-15,109	35,109	15,523	-28,103	-36,529	-35,172	-35,480
Indiana	-1,801	3,290	-853	-2,715	-3,911	-6,115	-4,278
Iowa	-1,229	18,020	5,502	-10,555	-12,536	-13,166	-12,393
Kansas	12,118	12,290	12,828	-6,005	-8,532	-8,265	-7,537
Kentucky	-7,530	8,039	4,853	-2,826	-8,590	-10,071	-13,358
Louisiana	10,964	32,273	29,327	-15,704	-33,463	-32,218	-29,380
Maryland	24	958	1,424	-1,553	-1,677	-1,845	-1,887
Michigan	-31,671	83,640	61,160	-49,100	-81,220	-82,649	-80,355
Minnesota	-30	218	30	-35	-202	-213	-287
Mississippi	-12,758	4,658	5,707	-3,369	-7,330	-7,868	-8,061
Missouri	-48	76	306	-210	-204	-206	-240
Montana	11,725	5,512	4,760	336	-3,519	-3,501	-3,261
Nebraska	-1,489	1,108	479	600	-785	-1,346	-1,193
New Mexico	5,338	-823	607	482	-1,873	363	811
New York	-13,367	8,151	6,347	-2,750	-7,327	-12,585	-12,964
Ohio	-10,844	35,138	25,728	-13,648	-23,807	-29,581	-36,092
Oklahoma	22,961	20,970	17,468	-10,345	-18,814	-14,973	-8,211
Oregon	783	1,240	552	170	-121	-509	-1,318
Pennsylvania	-59,533	25,003	33,464	-15,621	-37,711	-52,038	-69,480
Texas	63,869	24,153	12,557	-22,072	-34,225	-18,108	-2,670
Utah	12,955	9,164	4,651	1,416	-2,204	-3,884	-6,821
Washington	2,067	1,746	462	1,648	-597	-1,965	-935
West Virginia	-35,844	21,644	19,884	-15,242	-28,009	-19,913	-32,686
Wyoming	5,056	3,529	2,903	-272	-613	-771	-2,160
AGA Regions							
Producing	102,555	94,165	79,056	-57,617	-105,390	-81,685	-55,791
Eastern Consuming	-179,663	240,936	173,946	-141,841	-242,746	-265,082	-300,612
Western Consuming	82,844	39,316	10,566	-3,217	-17,907	874	-13,101
Total	5,735	374,417	263,567	-202,675	-366,042	-345,894	-369,504

Notes: This table contains total net withdrawals for each State 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. Data through 1996 are final. All other data are preliminary at this time and are not considered final until publication of the *Natural Gas Annual* for that year. The American Gas Association (AGA) publishes weekly estimates of working gas levels in underground storage by region. AGA defines the Producing Region as Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas, and Mississippi; the Eastern Consuming Region as all States east of the Mississippi River less Mississippi, plus Iowa, Nebraska and Missouri; the Western Consuming Region as all States west of the Mississippi River less the Producing Region and Iowa, Nebraska and Missouri.

Source: Form EIA-191, "Monthly Underground Gas Storage Report."

**Table 14. Activities of Underground Natural Gas Storage Operators, by State,
July 1998**
(Volumes in Million Cubic Feet)

State	Total 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	3,280	1,190	1,341	2,531	374	38.7	25	34
Arkansas	31,871	10,986	6,409	17,396	874	15.8	1,070	36
California	396,430	247,266	148,204	395,470	-11,705	-7.3	14,242	4,807
Colorado	99,600	48,140	26,803	74,943	-1,545	-5.5	4,362	302
Illinois	898,565	649,897	173,791	823,688	13,154	8.2	26,635	1,574
Indiana	113,210	73,777	21,362	95,140	-639	-2.9	2,487	11
Iowa	271,200	200,700	34,345	235,045	5,702	19.9	12,290	765
Kansas	304,066	191,077	80,896	271,973	20,399	33.7	16,198	3,090
Kentucky	219,908	109,112	88,700	197,812	9,998	12.7	10,872	251
Louisiana	559,013	265,685	197,907	463,592	58,558	42.0	34,372	8,775
Maryland	62,000	46,677	11,575	58,252	4,474	63.0	3,173	249
Michigan	992,934	420,886	488,949	909,835	88,803	22.2	61,312	455
Minnesota	7,000	4,623	1,609	6,232	-505	-23.9	289	0
Mississippi	134,012	77,462	43,054	120,516	2,344	5.8	7,046	1,085
Missouri	31,274	21,600	8,817	30,417	184	2.1	0	8
Montana	342,785	167,369	42,746	210,116	-6,427	-13.1	2,764	469
Nebraska	39,469	31,507	3,127	34,634	685	28.0	912	116
New Mexico	96,600	23,493	7,804	31,296	3,048	64.1	872	681
New York	175,479	103,042	59,553	162,595	10,572	21.6	10,644	2,536
Ohio	573,434	350,901	139,579	490,480	18,311	15.1	31,742	523
Oklahoma	396,087	234,061	114,745	348,806	39,917	53.3	13,622	6,068
Oregon	11,623	4,896	5,440	10,336	274	5.3	852	0
Pennsylvania	684,842	354,880	295,158	650,038	56,072	23.5	39,611	7,613
Texas	683,891	255,005	231,428	486,433	78,179	51.0	30,470	11,598
Utah	121,980	63,641	30,512	94,152	-407	-1.3	7,269	4
Washington	37,300	22,096	8,908	31,004	-4,622	-34.2	966	654
West Virginia	734,158	296,487	125,567	422,054	15,975	14.6	29,048	487
Wyoming	105,869	60,729	17,200	77,929	-224	-1.3	2,814	7
AGA Regions								
Producing	2,205,540	1,057,768	682,244	1,740,012	203,318	42.5	103,651	31,333
Eastern Consuming	4,799,753	2,660,656	1,451,864	4,112,520	223,665	18.2	228,754	14,623
Western Consuming	1,122,586	618,760	281,423	900,183	-25,161	-8.2	33,558	6,242
Total	8,127,879	4,337,184	2,415,530	6,752,714	401,822	20.0	365,963	52,199

Notes: 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. Geographic coverage is the 50 States and the District of Columbia. The American Gas Association (AGA) publishes weekly estimates of working gas levels in underground storage by region. AGA defines the Producing Region as Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas, and Mississippi; the Eastern Consuming Region as all States east of the Mississippi River less Mississippi, plus Iowa, Nebraska and Missouri; the Western Consuming Region as all States west of the Mississippi River less the Producing Region and Iowa, Nebraska and Missouri.

Source: Form EIA-191, "Monthly Underground Gas Storage Report."

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998
(Million Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998		
				June	May	April
Alabama	34,722	31,136	40,907	1,386	2,335	4,610
Alaska	8,285	8,261	9,426	628	933	1,239
Arizona	25,191	20,289	17,602	1,375	2,092	3,694
Arkansas	22,673	27,838	31,883	1,171	1,158	2,270
California	345,915	281,718	269,731	33,207	38,118	54,072
Colorado	NA	NA	72,505	1,592	7,546	NA
Connecticut	23,610	26,059	29,526	1,195	1,878	3,638
Delaware	5,563	6,242	7,065	252	450	846
District of Columbia	9,070	10,234	11,862	435	636	1,195
Florida	10,230	8,327	10,898	817	1,017	1,631
Georgia	69,269	61,987	78,823	3,186	3,558	8,015
Hawaii	300	269	292	47	47	49
Idaho	10,369	9,850	9,559	666	904	1,560
Illinois	245,592	309,697	332,003	11,529	14,790	33,014
Indiana	NA	109,415	117,494	NA	5,270	NA
Iowa	44,518	51,988	55,312	1,435	2,807	5,821
Kansas	50,282	48,312	52,929	2,155	3,803	7,378
Kentucky	34,555	39,608	44,265	1,360	1,961	3,937
Louisiana	32,309	32,899	39,354	1,814	2,310	3,736
Maine	NA	617	599	NA	NA	92
Maryland	44,011	48,570	56,130	2,087	2,992	5,696
Massachusetts	NA	72,952	77,508	NA	NA	10,697
Michigan	208,404	252,940	265,383	9,771	13,888	31,736
Minnesota	66,682	84,373	90,518	2,735	3,836	7,148
Mississippi	NA	17,342	21,282	NA	NA	NA
Missouri	77,650	85,516	92,793	3,128	4,980	10,435
Montana	NA	13,172	13,637	1,086	NA	1,676
Nebraska	28,510	32,652	32,555	1,199	1,961	4,324
Nevada	19,181	15,885	14,070	1,487	1,884	2,826
New Hampshire	4,308	4,582	4,695	238	378	697
New Jersey	121,526	138,277	148,496	5,736	11,735	17,514
New Mexico	21,104	20,453	19,706	284	1,270	2,589
New York	NA	267,451	267,649	NA	NA	30,102
North Carolina	36,501	34,540	41,378	1,192	2,243	5,018
North Dakota	6,670	8,114	8,210	292	490	953
Ohio	183,569	231,316	244,586	8,509	11,550	24,861
Oklahoma	47,060	47,799	52,520	1,855	3,094	5,854
Oregon	NA	21,707	21,183	1,641	2,135	NA
Pennsylvania	NA	168,977	184,789	6,505	9,880	NA
Rhode Island	NA	12,134	12,934	622	NA	NA
South Carolina	18,670	16,389	20,783	562	1,071	2,421
South Dakota	7,540	8,851	9,063	302	512	1,127
Tennessee	NA	NA	48,853	1,410	2,674	5,170
Texas	119,898	130,585	146,849	5,478	8,183	13,832
Utah	32,125	32,485	30,688	1,958	2,243	4,853
Vermont	1,624	1,786	1,759	77	118	266
Virginia	41,650	46,932	50,662	1,737	2,509	5,172
Washington	NA	NA	39,298	NA	NA	NA
West Virginia	NA	22,545	25,401	NA	NA	2,785
Wisconsin	71,584	84,399	93,491	3,470	4,080	9,198
Wyoming	NA	7,977	8,463	503	704	1,182
Total	2,885,224	3,171,650	3,377,366	151,443	218,566	405,491

See footnotes at end of table.

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1998			1997		
	March	February	January	Total	December	November
Alabama	7,480	9,222	9,689	48,328	7,914	3,963
Alaska	1,529	1,716	2,240	15,284	2,162	1,684
Arizona	5,323	5,604	7,103	31,162	4,780	1,980
Arkansas	6,069	6,668	5,336	42,472	6,375	4,018
California	62,006	76,210	82,302	486,233	69,510	40,537
Colorado	NA	NA	NA	NA	NA	NA
Connecticut	5,051	5,585	6,263	39,929	5,901	3,625
Delaware	1,248	1,360	1,408	8,920	1,206	667
District of Columbia	2,032	2,365	2,409	15,698	2,312	1,414
Florida	2,044	2,251	2,470	14,538	2,038	1,192
Georgia	16,312	18,031	20,167	114,282	19,723	16,465
Hawaii	49	52	55	518	45	42
Idaho	2,032	2,232	2,975	15,245	2,372	1,429
Illinois	54,697	53,146	78,417	497,370	69,685	56,316
Indiana	23,358	20,668	26,868	170,494	26,161	17,458
Iowa	10,634	10,261	13,560	81,357	12,039	8,592
Kansas	11,857	11,594	13,494	75,968	11,319	8,812
Kentucky	8,164	8,515	10,618	65,852	11,153	8,075
Louisiana	7,184	7,953	9,311	52,364	8,007	4,321
Maine	120	124	153	1,009	142	107
Maryland	9,577	11,052	12,609	77,109	10,927	8,296
Massachusetts	14,514	15,644	16,948	110,969	15,274	10,140
Michigan	47,397	48,977	56,636	379,431	49,980	37,898
Minnesota	16,337	15,023	21,603	132,392	17,705	15,376
Mississippi	NA	4,564	NA	NA	4,327	2,545
Missouri	17,763	18,966	22,378	128,012	19,007	12,077
Montana	2,429	2,404	3,418	20,995	3,197	2,030
Nebraska	6,482	6,642	7,902	47,115	5,790	4,401
Nevada	3,809	4,149	5,025	25,154	3,867	1,917
New Hampshire	845	1,010	1,140	6,949	933	616
New Jersey	26,429	29,313	30,800	212,726	30,622	19,893
New Mexico	4,740	4,337	7,884	36,380	8,162	4,067
New York	42,752	46,717	NA	399,707	50,610	35,378
North Carolina	7,535	9,710	10,803	52,993	9,219	4,884
North Dakota	1,464	1,561	1,910	11,900	1,471	1,178
Ohio	44,211	43,910	50,527	359,712	51,089	37,009
Oklahoma	10,832	11,652	13,774	71,745	11,053	6,181
Oregon	NA	4,581	6,117	33,308	4,834	2,809
Pennsylvania	32,526	34,714	31,526	262,841	37,823	26,338
Rhode Island	2,402	2,720	2,781	18,162	2,509	1,464
South Carolina	4,006	5,177	5,432	25,475	4,634	2,399
South Dakota	1,738	1,666	2,196	13,225	1,734	1,329
Tennessee	9,938	9,546	NA	NA	11,064	6,385
Texas	25,051	30,500	36,854	211,229	33,619	19,418
Utah	6,482	8,193	8,396	58,099	10,374	6,017
Vermont	340	397	427	2,631	345	214
Virginia	9,618	11,067	11,546	73,716	11,657	7,430
Washington	NA	NA	NA	NA	NA	NA
West Virginia	4,553	4,906	5,039	36,349	6,079	4,103
Wisconsin	17,130	15,618	22,087	136,335	19,157	16,222
Wyoming	1,566	1,560	NA	12,163	1,489	1,175
Total	635,067	680,533	794,124	5,014,136	732,116	499,331

See footnotes at end of table.

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1997					
	October	September	August	July	June	May
Alabama	1,435	1,250	1,238	1,392	1,604	2,638
Alaska	1,569	743	402	463	508	789
Arizona	1,057	1,127	910	1,019	1,154	1,571
Arkansas	1,346	949	918	1,028	1,240	2,324
California	24,905	21,772	20,951	26,840	23,572	28,707
Colorado	4,146	2,623	2,503	2,865	3,991	8,207
Connecticut	1,492	1,001	903	949	1,380	2,332
Delaware	250	183	178	194	318	557
District of Columbia	553	393	372	419	562	944
Florida	755	699	742	785	856	944
Georgia	6,777	3,190	2,944	3,195	3,357	3,834
Hawaii	39	40	41	43	41	42
Idaho	639	315	294	346	433	939
Illinois	29,486	11,697	10,111	10,378	11,617	26,081
Indiana	8,129	3,491	2,989	2,852	4,958	9,482
Iowa	4,027	1,645	1,472	1,593	2,102	3,938
Kansas	2,419	1,629	1,616	1,862	1,652	3,581
Kentucky	3,072	1,448	1,077	1,419	1,572	2,954
Louisiana	2,085	1,697	1,671	1,685	2,050	2,824
Maine	66	30	26	21	34	56
Maryland	3,543	2,067	1,800	1,906	2,677	4,215
Massachusetts	4,780	2,555	2,437	2,831	4,370	6,917
Michigan	17,835	8,767	7,264	4,748	12,010	26,958
Minnesota	6,811	2,864	2,556	2,706	3,499	6,775
Mississippi	896	NA	NA	NA	920	1,463
Missouri	3,667	2,625	2,403	2,717	3,665	6,474
Montana	1,230	508	447	411	631	1,143
Nebraska	1,382	936	937	1,015	1,367	3,177
Nevada	1,019	802	777	887	981	1,419
New Hampshire	327	175	155	160	263	465
New Jersey	8,843	5,309	4,680	5,102	6,457	11,258
New Mexico	1,209	830	843	815	238	1,952
New York	16,616	9,976	9,236	10,440	15,312	27,004
North Carolina	1,441	935	900	1,074	1,599	2,991
North Dakota	474	229	206	228	333	730
Ohio	19,335	7,228	6,202	7,533	14,843	21,575
Oklahoma	1,966	1,548	1,519	1,679	2,105	3,857
Oregon	1,498	826	756	878	1,065	1,920
Pennsylvania	12,987	6,315	5,249	5,153	7,583	15,446
Rhode Island	659	473	443	480	727	1,171
South Carolina	631	466	444	512	701	1,230
South Dakota	569	261	233	248	368	784
Tennessee	1,905	1,187	1,080	1,119	NA	3,019
Texas	8,261	6,416	6,101	6,829	7,595	10,420
Utah	4,299	1,957	1,466	1,501	1,601	1,821
Vermont	118	59	52	57	97	189
Virginia	3,007	1,640	1,473	1,576	2,054	4,227
Washington	NA	NA	NA	NA	NA	5,591
West Virginia	1,755	784	594	488	961	2,246
Wisconsin	8,154	2,974	2,550	2,878	2,965	7,456
Wyoming	646	330	252	294	395	1,076
Total	234,624	130,203	117,325	128,887	165,024	287,712

See footnotes at end of table.

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1997				1996	
	April	March	February	January	Total	December
Alabama	3,180	5,326	9,098	9,290	56,522	6,664
Alaska	1,177	1,767	1,618	2,402	16,179	2,181
Arizona	2,259	4,235	5,092	5,978	27,709	4,051
Arkansas	3,293	4,942	7,754	8,285	46,289	6,286
California	39,271	48,377	66,688	75,103	473,310	62,905
Colorado	10,629	15,239	NA	NA	110,924	15,814
Connecticut	4,378	5,176	6,538	6,255	43,764	5,842
Delaware	942	1,265	1,612	1,549	9,791	1,236
District of Columbia	1,316	2,049	2,655	2,708	17,290	2,406
Florida	1,013	1,279	2,068	2,167	16,293	1,583
Georgia	8,221	9,001	16,024	21,550	127,062	18,574
Hawaii	41	46	49	51	540	44
Idaho	1,464	1,909	2,542	2,564	14,941	2,224
Illinois	41,192	61,416	69,338	100,053	538,749	80,922
Indiana	15,219	20,684	26,294	32,779	179,939	26,087
Iowa	6,971	9,528	11,881	17,568	88,078	14,138
Kansas	6,402	8,769	12,105	15,803	85,376	14,388
Kentucky	4,883	7,293	8,964	13,942	70,232	10,177
Louisiana	3,680	5,619	8,991	9,736	56,626	6,173
Maine	85	142	133	166	967	120
Maryland	6,913	8,998	12,080	13,687	85,533	11,426
Massachusetts	12,122	15,127	17,654	16,762	114,365	13,947
Michigan	38,256	51,299	57,545	66,871	399,522	52,724
Minnesota	11,435	16,959	19,966	25,740	142,319	22,152
Mississippi	1,904	3,038	4,968	5,050	30,157	3,676
Missouri	11,030	15,422	23,426	25,499	137,225	20,539
Montana	1,996	2,468	3,038	3,897	22,175	3,286
Nebraska	4,355	6,232	7,829	9,692	48,989	7,283
Nevada	2,018	3,172	3,825	4,470	22,607	3,386
New Hampshire	744	913	1,136	1,061	7,012	855
New Jersey	18,139	31,984	34,709	35,729	222,619	29,983
New Mexico	1,503	3,810	5,630	7,320	33,689	5,663
New York	41,729	52,648	63,646	67,111	403,264	NA
North Carolina	4,087	5,811	10,002	10,050	58,812	8,607
North Dakota	1,178	1,576	1,984	2,313	12,591	1,894
Ohio	33,023	44,153	52,497	65,225	374,824	52,480
Oklahoma	6,160	9,070	12,687	13,920	76,629	11,298
Oregon	3,206	4,350	5,308	5,857	33,236	5,200
Pennsylvania	25,130	33,537	41,287	45,992	278,606	36,688
Rhode Island	1,994	2,462	2,891	2,890	18,839	2,350
South Carolina	1,776	2,592	4,994	5,097	29,406	4,336
South Dakota	1,250	1,625	2,089	2,735	14,085	2,243
Tennessee	4,797	NA	12,086	12,795	70,423	10,177
Texas	14,025	22,686	33,154	42,706	229,318	33,952
Utah	4,875	5,945	8,366	9,876	54,344	8,203
Vermont	283	383	416	419	2,523	302
Virginia	6,662	9,123	11,741	13,126	76,214	10,946
Washington	4,586	8,132	9,377	10,885	62,689	9,804
West Virginia	3,421	4,318	5,630	5,969	37,390	5,166
Wisconsin	11,112	17,378	19,323	26,165	147,893	21,285
Wyoming	1,058	1,544	1,660	2,243	13,534	1,744
Total	436,386	608,818	766,614	907,096	5,241,414	737,722

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998
(Million Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998		
				June	May	April
Alabama	19,660	16,893	18,975	1,118	3,768	2,713
Alaska	12,344	14,129	14,649	1,274	1,684	1,911
Arizona	18,791	17,217	16,306	2,073	2,495	3,013
Arkansas	NA	18,046	20,090	NA	1,280	1,728
California	142,377	132,191	117,954	18,132	22,410	23,269
Colorado	NA	NA	43,984	3,415	4,768	NA
Connecticut	24,865	24,804	23,867	2,151	2,124	4,294
Delaware	3,765	4,258	4,466	226	320	556
District of Columbia	10,784	10,000	9,621	913	1,085	1,830
Florida	21,657	20,130	23,453	2,748	3,112	3,701
Georgia	34,836	31,538	37,123	2,725	3,248	4,882
Hawaii	1,071	1,066	1,114	181	169	174
Idaho	7,272	7,071	7,059	537	689	1,077
Illinois	104,534	124,235	130,459	6,702	6,961	15,326
Indiana	NA	62,904	55,435	NA	3,258	NA
Iowa	27,893	30,565	33,846	1,237	1,566	3,605
Kansas	28,765	30,212	32,986	1,722	2,093	3,381
Kentucky	20,547	22,766	25,050	1,195	1,505	2,490
Louisiana	NA	14,351	16,343	NA	1,629	2,048
Maine	NA	1,633	1,578	NA	NA	255
Maryland	27,931	28,483	27,893	2,507	2,532	3,668
Massachusetts	57,998	61,793	56,493	5,209	5,789	8,771
Michigan	103,031	126,766	129,107	6,297	8,530	15,784
Minnesota	50,013	57,503	59,794	3,003	3,208	5,685
Mississippi	NA	12,339	13,740	NA	NA	NA
Missouri	40,465	45,165	46,623	2,352	2,978	5,545
Montana	NA	8,665	8,934	839	NA	1,029
Nebraska	18,498	22,217	21,038	856	1,690	2,786
Nevada	13,965	12,754	11,595	1,587	1,876	2,207
New Hampshire	NA	4,603	4,571	NA	420	710
New Jersey	87,592	88,140	94,068	6,873	10,233	11,748
New Mexico	15,701	15,611	15,238	932	1,525	2,281
New York	NA	197,922	NA	NA	NA	20,716
North Carolina	24,201	22,859	25,500	1,658	2,053	3,326
North Dakota	6,331	7,326	7,495	312	507	953
Ohio	97,989	118,435	123,828	5,165	7,134	13,211
Oklahoma	29,310	27,653	29,730	1,826	2,291	4,018
Oregon	NA	15,718	15,487	1,428	1,618	NA
Pennsylvania	NA	88,891	96,026	4,906	6,114	NA
Rhode Island	NA	7,751	7,942	495	NA	NA
South Carolina	12,181	10,337	12,142	1,063	1,209	1,732
South Dakota	5,878	6,715	7,056	285	539	806
Tennessee	NA	NA	36,657	2,646	2,993	4,714
Texas	104,827	105,132	104,113	11,161	13,616	14,839
Utah	17,978	17,777	17,009	1,154	1,510	2,749
Vermont	1,811	1,914	1,813	110	116	281
Virginia	36,642	36,727	35,635	2,682	3,672	5,338
Washington	NA	NA	28,852	NA	NA	NA
West Virginia	NA	15,469	16,763	NA	1,709	2,235
Wisconsin	47,456	54,583	58,018	3,471	3,801	6,632
Wyoming	NA	7,841	5,389	409	545	783
Total	1,777,917	1,918,414	1,910,283	144,643	174,673	253,681

See footnotes at end of table.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1998			1997		
	March	February	January	Total	December	November
Alabama	3,522	4,010	4,529	34,239	3,740	2,540
Alaska	2,251	2,340	2,883	26,795	3,134	2,647
Arizona	3,548	3,534	4,129	30,178	3,386	2,273
Arkansas	3,843	4,075	4,781	29,518	3,996	2,726
California	19,321	28,787	30,457	254,440	26,174	21,235
Colorado	NA	NA	NA	NA	9,405	NA
Connecticut	4,999	5,540	5,757	42,370	5,776	3,838
Delaware	829	899	935	6,547	864	520
District of Columbia	2,032	2,382	2,542	17,034	2,293	1,354
Florida	3,961	3,984	4,152	37,644	3,833	3,203
Georgia	7,391	8,120	8,471	57,474	7,991	6,146
Hawaii	172	179	196	2,174	185	251
Idaho	1,423	1,570	1,977	11,435	1,657	982
Illinois	22,556	22,455	30,533	205,941	27,467	23,244
Indiana	11,063	10,460	12,876	98,622	13,318	9,608
Iowa	7,584	5,962	7,938	50,218	7,166	5,681
Kansas	8,014	6,177	7,378	52,331	6,777	4,780
Kentucky	4,636	5,053	5,668	39,046	6,217	4,223
Louisiana	5,056	4,998	4,511	24,451	2,987	1,988
Maine	332	342	422	2,713	375	289
Maryland	6,091	6,474	6,659	53,255	6,365	8,614
Massachusetts	11,570	12,943	13,716	105,883	11,544	8,664
Michigan	22,837	23,664	25,919	197,276	26,512	19,536
Minnesota	11,726	11,133	15,257	93,655	12,420	10,831
Mississippi	NA	3,310	NA	NA	2,928	2,026
Missouri	8,978	9,467	11,144	70,044	9,543	6,200
Montana	1,527	1,459	2,178	13,932	2,005	1,299
Nebraska	4,027	4,237	4,903	42,107	4,247	3,487
Nevada	2,642	2,575	3,078	21,822	2,567	1,797
New Hampshire	869	1,051	1,167	7,408	1,010	703
New Jersey	19,826	18,713	20,200	147,228	20,186	13,739
New Mexico	3,211	3,243	4,509	26,151	3,956	2,423
New York	NA	NA	NA	346,939	36,071	27,233
North Carolina	4,879	5,791	6,495	38,942	5,608	3,490
North Dakota	1,372	1,434	1,753	11,392	1,374	1,163
Ohio	21,443	23,991	27,046	184,883	25,219	17,840
Oklahoma	6,347	6,859	7,969	43,776	5,673	3,390
Oregon	NA	3,308	3,889	25,380	3,341	2,016
Pennsylvania	17,790	19,674	21,571	147,290	20,160	14,246
Rhode Island	1,492	1,620	1,786	12,303	1,413	1,212
South Carolina	2,440	2,781	2,955	19,874	2,671	1,771
South Dakota	1,335	1,292	1,621	10,426	1,312	1,022
Tennessee	7,027	6,063	NA	NA	8,120	5,216
Texas	20,104	20,826	24,280	206,455	23,104	18,448
Utah	3,787	4,235	4,544	31,130	5,152	3,187
Vermont	381	436	487	3,051	403	282
Virginia	7,878	8,398	8,673	61,430	8,549	5,455
Washington	NA	NA	NA	NA	NA	NA
West Virginia	3,146	6,096	3,564	26,927	3,447	2,904
Wisconsin	11,019	9,845	12,688	92,418	12,954	10,586
Wyoming	1,128	1,288	NA	12,291	1,092	1,065
Total	368,098	391,709	445,113	3,285,974	414,006	317,756

See footnotes at end of table.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1997					
	October	September	August	July	June	May
Alabama	2,107	2,375	3,087	3,497	1,779	2,020
Alaska	2,564	1,588	1,336	1,398	1,422	1,806
Arizona	1,754	1,839	1,770	1,939	1,976	2,141
Arkansas	1,352	1,133	1,132	1,133	1,219	1,653
California	19,673	18,468	18,728	17,971	16,572	18,994
Colorado	2,443	2,281	2,005	2,244	2,860	NA
Connecticut	2,502	1,560	1,754	2,136	2,227	2,586
Delaware	282	233	183	206	281	420
District of Columbia	899	852	853	783	951	1,373
Florida	2,687	2,561	2,651	2,578	2,917	2,902
Georgia	3,654	2,811	2,626	2,709	2,800	3,216
Hawaii	171	166	160	175	170	166
Idaho	585	411	356	373	399	686
Illinois	12,431	6,546	5,935	6,084	6,145	10,664
Indiana	5,146	2,667	2,551	2,428	6,344	9,965
Iowa	3,031	1,358	1,110	1,306	1,262	2,376
Kansas	2,508	2,087	2,685	3,283	2,078	2,798
Kentucky	2,429	1,268	967	1,176	1,181	1,890
Louisiana	1,330	1,250	1,195	1,350	1,408	1,492
Maine	176	91	78	72	92	152
Maryland	2,917	2,271	2,226	2,378	2,305	2,735
Massachusetts	7,063	5,488	5,776	5,555	7,151	6,266
Michigan	10,084	6,211	5,889	2,278	7,664	13,205
Minnesota	5,320	2,563	2,522	2,496	3,004	5,155
Mississippi	1,157	NA	NA	NA	1,176	1,237
Missouri	2,736	2,196	2,054	2,151	2,457	3,569
Montana	793	423	383	363	451	714
Nebraska	2,351	1,868	2,896	5,042	1,728	2,430
Nevada	1,270	1,192	1,145	1,097	1,409	1,666
New Hampshire	411	249	217	216	286	472
New Jersey	7,215	6,062	5,793	6,094	7,027	9,816
New Mexico	1,160	1,020	997	984	960	1,766
New York	21,384	18,287	22,102	23,940	24,103	25,257
North Carolina	2,057	1,751	1,629	1,548	1,770	2,401
North Dakota	588	344	291	305	343	619
Ohio	9,823	5,006	4,408	4,153	8,743	11,339
Oklahoma	2,126	1,659	1,626	1,649	1,517	2,617
Oregon	1,363	1,023	912	1,007	1,067	1,574
Pennsylvania	9,659	5,298	4,356	4,680	5,554	10,354
Rhode Island	637	460	399	431	537	892
South Carolina	1,176	1,904	1,019	997	1,214	1,278
South Dakota	549	334	250	246	283	604
Tennessee	2,846	2,120	2,064	2,090	NA	3,242
Texas	14,187	15,035	15,234	15,315	11,993	12,860
Utah	2,020	1,124	943	927	946	1,268
Vermont	184	108	80	80	108	160
Virginia	3,489	2,392	2,449	2,370	2,681	4,381
Washington	NA	NA	NA	NA	NA	4,098
West Virginia	1,576	1,195	1,292	1,044	1,181	1,693
Wisconsin	5,664	2,901	2,961	2,769	2,868	5,507
Wyoming	633	372	345	943	633	1,065
Total	193,542	146,067	146,788	149,400	160,656	212,588

See footnotes at end of table.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1997				1996	
	April	March	February	January	Total	December
Alabama	2,194	2,613	4,063	4,224	29,002	3,123
Alaska	2,215	2,848	2,518	3,320	27,315	3,236
Arizona	2,563	3,153	3,525	3,858	29,102	3,259
Arkansas	2,172	3,149	4,730	5,123	31,009	3,876
California	21,091	23,612	26,107	25,816	236,332	24,836
Colorado	NA	NA	NA	NA	68,931	9,028
Connecticut	4,055	4,797	5,346	5,792	39,818	4,902
Delaware	628	858	1,046	1,025	6,695	821
District of Columbia	842	2,183	2,316	2,335	16,353	2,325
Florida	3,017	3,307	3,862	4,126	41,898	3,830
Georgia	4,152	4,864	7,924	8,582	61,377	7,462
Hawaii	174	180	188	188	2,132	176
Idaho	1,041	1,345	1,784	1,816	11,540	1,621
Illinois	16,797	23,444	30,059	37,125	218,086	32,425
Indiana	7,610	10,465	12,807	15,715	87,568	12,378
Iowa	3,976	5,758	7,056	10,137	54,576	8,510
Kansas	4,004	6,012	8,130	7,190	57,231	9,187
Kentucky	2,913	4,093	5,483	7,206	40,980	5,892
Louisiana	1,837	2,463	3,574	3,575	25,769	2,435
Maine	231	378	348	433	2,566	310
Maryland	4,420	5,563	6,380	7,080	45,891	5,433
Massachusetts	9,068	11,630	13,854	13,824	96,192	11,752
Michigan	19,207	25,654	28,433	32,603	201,431	26,123
Minnesota	8,361	12,000	13,403	15,580	98,580	15,009
Mississippi	1,533	2,106	3,062	3,226	22,230	2,333
Missouri	5,786	7,970	12,828	12,556	72,833	10,204
Montana	1,342	1,652	1,947	2,558	14,836	2,123
Nebraska	3,190	4,117	4,845	5,907	40,833	5,032
Nevada	1,896	2,442	2,629	2,711	20,469	2,417
New Hampshire	739	954	1,079	1,073	7,099	896
New Jersey	13,645	21,543	14,211	21,897	150,432	18,834
New Mexico	1,862	2,935	3,938	4,151	26,544	3,553
New York	31,231	36,768	41,464	39,099	253,129	NA
North Carolina	2,973	3,806	5,850	6,059	40,467	5,160
North Dakota	1,095	1,408	1,879	1,982	12,165	1,726
Ohio	15,190	23,205	28,174	31,783	190,195	26,298
Oklahoma	3,571	5,041	7,183	7,724	46,284	6,014
Oregon	2,304	3,076	3,686	4,011	25,622	3,595
Pennsylvania	13,007	17,888	19,583	22,506	154,677	22,333
Rhode Island	1,144	1,740	1,744	1,694	12,301	1,290
South Carolina	1,222	1,816	2,409	2,397	20,329	2,447
South Dakota	940	1,235	1,607	2,045	11,602	1,813
Tennessee	4,276	NA	9,488	9,084	58,513	7,599
Texas	13,790	19,967	21,284	25,238	178,573	18,053
Utah	2,675	3,363	4,473	5,051	29,666	4,220
Vermont	296	429	444	477	2,825	348
Virginia	5,762	7,212	8,021	8,670	59,294	7,489
Washington	4,100	5,627	6,275	7,474	48,252	6,623
West Virginia	2,222	2,816	3,652	3,903	28,030	3,400
Wisconsin	7,225	10,989	12,071	15,922	93,868	13,368
Wyoming	1,445	1,593	1,423	1,681	9,735	1,748
Total	273,153	366,359	427,944	477,715	3,161,176	409,165

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Deliveries for total year 1996 may not equal the sum of the twelve months. Gas volumes delivered for use as vehicle fuel are included in the annual total but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998
(Million Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998		
				June	May	April
Alabama	104,190	102,479	100,367	16,737	17,308	17,013
Alaska	38,044	38,508	35,884	6,251	5,854	6,455
Arizona	13,800	13,302	13,098	2,034	2,313	2,281
Arkansas	74,522	73,808	70,833	11,102	11,839	12,765
California	354,177	346,149	337,136	53,880	66,080	55,492
Colorado	NA	NA	41,681	NA	5,649	6,278
Connecticut	17,286	18,261	15,484	2,225	2,546	2,782
Delaware	8,288	7,502	7,122	1,160	1,256	1,348
District of Columbia	0	0	0	0	0	0
Florida	71,786	67,118	69,351	11,469	11,765	11,608
Georgia	79,095	93,599	89,795	13,149	12,501	12,866
Hawaii	0	0	0	0	0	0
Idaho	18,268	17,745	18,008	2,672	2,593	3,047
Illinois	161,090	168,244	172,274	20,738	22,462	26,752
Indiana	NA	142,320	155,103	NA	23,136	NA
Iowa	NA	55,742	58,024	7,574	NA	10,660
Kansas	52,273	59,418	56,174	9,583	8,483	8,011
Kentucky	47,626	49,997	49,721	6,787	7,022	7,543
Louisiana	466,599	488,863	520,453	73,666	75,577	77,970
Maine	NA	1,193	1,039	NA	NA	122
Maryland	47,728	28,856	24,298	3,622	4,047	4,407
Massachusetts	NA	59,782	48,105	NA	NA	8,209
Michigan	172,001	179,270	187,157	22,705	25,012	26,873
Minnesota	51,550	54,019	49,910	7,847	6,901	8,548
Mississippi	NA	39,136	41,436	NA	NA	NA
Missouri	35,144	38,605	39,262	4,646	4,830	5,473
Montana	NA	8,961	8,819	1,687	NA	1,521
Nebraska	17,707	18,286	18,611	3,076	2,662	2,543
Nevada	12,991	13,797	16,117	2,337	2,455	2,453
New Hampshire	NA	3,010	2,356	NA	NA	457
New Jersey	100,691	102,499	98,690	14,727	15,723	16,455
New Mexico	11,684	12,771	11,685	1,979	2,027	2,049
New York	NA	169,329	161,283	NA	NA	22,542
North Carolina	59,849	58,902	49,374	9,042	9,439	9,366
North Dakota	5,416	6,345	3,969	771	773	898
Ohio	179,294	182,627	187,852	24,008	25,977	29,362
Oklahoma	94,666	107,121	98,563	16,280	13,793	14,388
Oregon	NA	40,173	38,907	6,767	7,015	NA
Pennsylvania	120,520	125,321	127,787	17,926	18,161	19,808
Rhode Island	NA	13,544	9,492	2,042	NA	2,078
South Carolina	53,230	52,191	45,212	8,464	8,713	8,159
South Dakota	2,822	4,020	3,892	307	697	279
Tennessee	NA	NA	61,441	11,714	11,710	12,020
Texas	935,973	1,027,269	1,082,152	150,210	154,540	153,724
Utah	24,914	22,082	21,201	3,678	3,668	4,480
Vermont	1,101	1,175	963	152	164	164
Virginia	43,099	39,815	41,954	8,290	6,375	7,746
Washington	NA	NA	53,994	NA	NA	NA
West Virginia	NA	25,873	24,386	NA	NA	4,099
Wisconsin	74,824	82,934	79,770	9,204	9,508	11,658
Wyoming	NA	24,495	25,069	4,119	4,293	3,344
Total	4,356,575	4,450,598	4,475,251	641,166	744,024	693,905

See footnotes at end of table.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1998			1997		
	March	February	January	Total	December	November
Alabama	18,208	16,441	18,483	206,129	18,755	17,910
Alaska	6,878	6,152	6,454	73,863	6,876	5,571
Arizona	2,413	2,226	2,533	27,889	2,688	2,360
Arkansas	13,363	12,114	13,339	147,046	13,202	12,751
California	47,185	67,501	64,039	731,180	63,859	61,447
Colorado	6,323	6,388	6,949	NA	NA	NA
Connecticut	3,183	3,149	3,402	34,461	3,422	2,838
Delaware	1,477	1,443	1,604	14,841	1,580	1,327
District of Columbia	0	0	0	0	0	0
Florida	12,960	11,053	12,931	132,636	11,487	10,945
Georgia	13,434	13,335	13,808	170,988	12,800	12,468
Hawaii	0	0	0	0	0	0
Idaho *	3,130	3,482	3,344	35,089	3,159	3,109
Illinois	29,211	28,719	33,208	316,352	30,515	27,702
Indiana	27,772	25,847	28,857	282,466	28,684	26,650
Iowa	11,792	9,516	11,321	111,430	10,686	10,199
Kansas	8,686	7,811	9,699	115,454	10,909	8,587
Kentucky	8,884	7,550	9,839	97,555	9,442	8,835
Louisiana	81,959	74,500	82,928	983,217	81,573	80,707
Maine	159	164	202	2,525	216	296
Maryland	11,276	10,677	13,699	61,353	13,713	263
Massachusetts	8,759	8,443	9,923	110,880	9,185	8,316
Michigan	32,052	31,380	33,980	326,414	31,551	27,735
Minnesota	9,039	10,044	9,171	107,280	10,111	10,179
Mississippi	NA	6,814	NA	NA	7,043	7,238
Missouri	6,788	6,360	7,047	69,623	6,701	6,057
Montana	1,481	1,449	1,884	18,122	2,064	1,850
Nebraska	3,043	2,902	3,481	32,514	3,723	1,923
Nevada	2,174	1,979	1,593	27,795	2,213	2,214
New Hampshire	468	498	481	5,732	468	442
New Jersey	17,152	17,655	18,980	202,654	17,569	15,519
New Mexico	1,822	1,823	1,984	24,853	2,146	2,019
New York	26,423	NA	NA	325,392	27,393	27,674
North Carolina	10,846	10,404	10,752	116,320	10,426	9,608
North Dakota	1,017	948	1,010	11,151	929	869
Ohio	32,257	31,779	35,912	343,764	32,492	30,107
Oklahoma	16,578	17,131	16,497	205,823	16,600	15,704
Oregon	NA	8,744	9,760	90,658	9,760	8,798
Pennsylvania	21,699	20,811	22,115	235,913	20,983	21,509
Rhode Island	2,117	2,011	2,173	24,470	2,179	2,148
South Carolina	9,121	9,129	9,645	103,578	9,344	8,702
South Dakota	474	500	565	6,961	606	618
Tennessee	14,188	12,628	NA	NA	12,466	8,602
Texas	159,503	148,544	169,452	NA	174,230	162,492
Utah	4,273	4,080	4,735	44,290	4,504	4,129
Vermont	194	205	223	2,337	235	226
Virginia	6,497	7,444	6,747	83,965	7,773	6,522
Washington	NA	NA	NA	NA	NA	NA
West Virginia	4,553	1,696	4,510	51,114	4,610	4,353
Wisconsin	14,819	13,298	16,337	152,545	14,848	14,202
Wyoming	NA	NA	5,156	47,095	4,102	4,328
Total	748,773	730,160	798,548	8,753,273	789,667	723,347

See footnotes at end of table.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1997					
	October	September	August	July	June	May
Alabama	17,161	16,150	16,827	16,848	16,253	17,284
Alaska	6,313	4,233	6,395	5,968	5,915	5,619
Arizona	2,335	2,582	2,375	2,246	2,170	2,332
Arkansas	12,471	11,035	11,994	11,785	11,598	11,903
California	60,283	65,816	67,815	65,810	58,874	58,119
Colorado	5,148	4,680	6,402	4,907	6,030	6,225
Connecticut	2,588	2,362	2,550	2,440	2,441	2,870
Delaware	1,202	1,107	1,017	1,106	1,156	1,308
District of Columbia	0	0	0	0	0	0
Florida	10,925	10,734	10,355	11,071	10,526	11,522
Georgia	12,817	12,855	13,575	12,874	12,448	16,828
Hawaii	0	0	0	0	0	0
Idaho	3,226	2,756	2,371	2,723	2,724	2,673
Illinois	24,750	22,004	20,706	22,431	22,272	25,139
Indiana	23,332	21,152	20,475	19,853	17,289	19,839
Iowa	9,886	8,468	8,680	7,768	7,823	8,516
Kansas	8,210	7,655	8,324	12,351	8,854	9,443
Kentucky	8,625	7,052	7,079	6,526	6,669	7,704
Louisiana	84,368	82,780	83,946	80,979	82,324	83,780
Maine	243	208	191	178	197	226
Maryland	4,308	4,427	5,019	4,767	5,126	4,734
Massachusetts	8,095	7,625	8,946	8,930	10,487	8,389
Michigan	24,470	23,655	23,705	16,029	25,327	27,343
Minnesota	9,139	7,244	8,412	8,176	7,733	7,622
Mississippi	6,572	NA	NA	NA	6,054	5,804
Missouri	5,106	4,322	4,338	4,492	4,810	4,987
Montana	1,612	1,290	1,253	1,093	1,176	1,365
Nebraska	2,697	2,050	2,627	1,207	2,484	2,580
Nevada	2,421	2,426	2,430	2,294	2,272	2,528
New Hampshire	499	—	451	422	434	553
New Jersey	16,683	16,219	17,715	16,450	15,822	16,773
New Mexico	1,881	1,982	1,957	2,097	2,041	2,123
New York	21,794	26,738	24,589	27,876	25,785	25,745
North Carolina	9,568	9,017	9,696	9,102	9,195	9,687
North Dakota	812	754	817	625	707	911
Ohio	26,986	24,750	24,078	22,725	29,566	26,644
Oklahoma	15,473	16,687	17,620	16,618	17,536	17,339
Oregon	8,284	8,041	8,313	7,289	5,557	6,033
Pennsylvania	17,230	16,783	17,206	16,881	16,359	18,780
Rhode Island	1,509	1,440	1,491	2,159	2,265	2,401
South Carolina	8,239	8,883	8,277	7,943	8,451	9,122
South Dakota	425	470	499	322	492	531
Tennessee	11,242	13,313	13,153	10,831	NA	11,767
Texas	165,162	NA	172,857	166,725	165,999	166,759
Utah	4,228	2,497	3,369	3,482	3,408	3,633
Vermont	224	176	157	144	146	218
Virginia	5,914	6,951	8,927	8,064	5,864	7,452
Washington	NA	NA	NA	NA	NA	8,513
West Virginia	4,150	4,032	4,106	3,991	3,905	4,439
Wisconsin	11,931	10,069	9,521	9,041	9,458	11,310
Wyoming	3,966	3,299	3,672	3,234	3,858	4,125
Total	704,330	687,142	712,947	685,242	687,309	711,540

See footnotes at end of table.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1997				1996	
	April	March	February	January	Total	December
Alabama	18,182	16,885	16,341	17,534	201,414	17,016
Alaska	6,443	6,993	6,448	7,090	75,616	7,034
Arizona	2,089	2,351	2,132	2,228	26,979	2,536
Arkansas	12,008	12,361	12,195	13,744	141,300	12,552
California	57,480	57,065	55,756	58,855	693,539	61,618
Colorado	5,708	NA	NA	6,691	83,640	7,861
Connecticut	3,308	3,521	3,031	3,088	32,451	3,013
Delaware	1,354	1,249	1,192	1,243	14,164	1,148
District of Columbia	0	0	0	0	0	0
Florida	11,739	11,318	10,645	11,369	136,722	11,160
Georgia	16,740	16,153	16,385	15,044	181,768	15,926
Hawaii	0	0	0	0	0	0
Idaho ^a	3,180	3,200	2,802	3,166	34,577	2,891
Illinois	26,550	29,761	31,673	32,850	322,275	35,802
Indiana	23,608	26,703	25,597	29,284	289,219	25,886
Iowa	9,081	9,800	9,785	10,738	113,995	10,955
Kansas	9,903	9,911	9,183	12,123	110,294	9,372
Kentucky	7,769	8,408	8,964	10,483	94,481	9,646
Louisiana	82,622	78,729	78,331	83,077	1,048,432	86,865
Maine	247	182	162	180	2,190	171
Maryland	4,495	5,528	4,661	4,312	50,022	4,956
Massachusetts	10,392	10,520	10,375	9,619	100,015	9,252
Michigan	27,854	32,629	32,134	33,982	347,043	32,754
Minnesota	8,544	10,448	10,202	9,471	102,471	9,903
Mississippi	6,535	6,721	6,686	7,337	80,887	6,503
Missouri	7,149	5,099	9,463	7,097	71,533	6,510
Montana	1,178	1,695	1,634	1,913	18,103	1,985
Nebraska	3,404	3,426	3,257	3,135	36,125	3,689
Nevada	2,117	2,373	2,144	2,362	32,606	2,859
New Hampshire	632	570	411	411	4,916	404
New Jersey	16,587	18,406	15,694	19,217	200,933	27,230
New Mexico	1,935	1,944	2,119	2,608	22,858	2,173
New York	27,455	30,706	31,100	28,538	322,661	31,374
North Carolina	10,561	10,341	9,950	9,168	104,124	9,413
North Dakota	867	1,574	1,253	1,033	7,911	924
Ohio	27,049	30,688	32,631	36,048	347,149	33,111
Oklahoma	17,335	17,207	18,790	18,914	201,024	19,194
Oregon	6,408	6,846	6,722	8,606	87,754	8,498
Pennsylvania	21,556	22,001	23,241	23,384	243,499	21,089
Rhode Island	2,514	2,241	1,993	2,131	25,829	2,553
South Carolina	9,260	9,152	8,054	8,152	95,493	8,646
South Dakota	624	705	792	877	7,182	715
Tennessee	12,548	NA	12,789	11,698	126,545	12,264
Texas	164,032	182,742	160,683	187,054	2,138,155	181,384
Utah	3,757	3,777	3,698	3,809	42,213	3,693
Vermont	200	234	197	181	1,953	191
Virginia	6,449	4,162	8,056	7,833	84,357	9,782
Washington	8,189	9,259	9,170	9,112	114,236	9,758
West Virginia	6,731	2,577	3,836	4,386	49,997	4,443
Wisconsin	13,597	15,650	14,948	17,970	149,517	15,456
Wyoming	3,864	3,795	3,792	5,060	50,253	4,647
Total	731,827	767,957	747,761	804,203	8,870,422	806,805

^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. Deliveries for total year 1995 in Idaho do not equal the sum of the twelve months.

NA = Not Available.

— = Not Applicable.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 18. Natural Gas Deliveries to Electric Utility Consumers,
by State, 1996-1998**
(Million Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998		
				June	May	April
Alabama	8,805	2,247	2,233	4,764	2,844	296
Alaska	14,312	17,656	15,811	2,093	2,411	2,266
Arizona	6,269	6,659	6,040	1,986	674	1,127
Arkansas	16,520	5,707	15,599	6,676	5,479	2,283
California	115,545	144,929	113,947	15,338	13,745	18,055
Colorado	3,391	1,974	2,045	901	656	586
Connecticut	4,520	6,230	1,925	1,709	1,386	157
Delaware	3,448	10,093	10,542	1,196	900	548
District of Columbia	0	0	0	0	0	0
Florida	128,618	145,841	127,409	33,192	26,827	15,860
Georgia	6,145	909	2,198	4,958	746	98
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	30,860	17,727	11,442	7,387	7,068	4,835
Indiana	3,887	1,782	2,443	1,878	1,187	205
Iowa	2,480	1,766	1,881	774	697	298
Kansas	11,060	6,750	9,559	5,333	3,207	594
Kentucky	2,580	629	971	950	1,017	107
Louisiana	129,933	118,895	115,485	38,810	31,812	18,082
Maine	0	0	0	0	0	0
Maryland	3,487	4,628	2,781	1,396	932	373
Massachusetts	11,539	26,315	12,039	2,169	2,666	1,579
Michigan	22,400	14,434	14,981	5,093	4,212	3,602
Minnesota	2,494	3,372	2,093	994	804	268
Mississippi	33,535	24,953	35,232	10,630	8,717	4,400
Missouri	3,979	1,505	2,387	2,440	952	210
Montana	171	140	168	26	89	15
Nebraska	1,645	686	1,330	719	634	176
Nevada	19,947	20,652	19,884	4,036	3,761	3,549
New Hampshire	62	320	2	35	0	0
New Jersey	12,391	11,816	10,781	4,303	3,926	1,380
New Mexico	19,227	14,729	13,087	4,019	4,948	3,448
New York	89,481	88,810	48,110	24,084	18,926	9,076
North Carolina	4,930	908	1,229	3,789	1,026	12
North Dakota	0	1	1	0	0	0
Ohio	2,801	1,077	1,284	1,102	1,005	178
Oklahoma	63,688	43,731	60,362	20,792	13,893	7,944
Oregon	7,184	553	0	835	176	2,266
Pennsylvania	3,781	2,428	2,048	2,013	621	260
Rhode Island	11,104	12,771	11,347	1,453	1,943	1,606
South Carolina	2,287	787	494	1,413	687	37
South Dakota	825	614	196	315	366	33
Tennessee	1,634	255	122	1,202	432	0
Texas	537,477	411,032	506,705	153,171	117,366	83,043
Utah	866	769	789	141	138	135
Vermont	140	16	7	7	12	6
Virginia	7,638	4,887	4,317	2,254	2,158	699
Washington	818	100	150	33	14	152
West Virginia	177	141	107	46	30	22
Wisconsin	7,114	10,402	2,757	2,557	2,282	395
Wyoming	233	47	46	10	6	8
Total	1,361,427	1,192,671	1,194,367	379,024	293,378	190,266

See footnotes at end of table.

**Table 18. Natural Gas Deliveries to Electric Utility Consumers,
by State, 1996-1998**
(Million Cubic Feet) — Continued

State	1998			1997		
	March	February	January	Total	December	November
Alabama	383	157	362	9,996	87	296
Alaska	2,382	2,307	2,852	33,511	3,023	2,676
Arizona	718	804	962	23,384	752	400
Arkansas	1,521	272	289	24,802	294	375
California	23,374	18,278	26,755	377,967	27,218	22,372
Colorado	416	451	381	5,537	451	385
Connecticut	23	109	1,136	16,762	569	1,485
Delaware	475	74	256	16,090	700	682
District of Columbia	0	0	0	0	0	0
Florida	18,020	15,637	19,082	296,940	21,716	14,283
Georgia	183	57	102	7,341	49	124
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	4,022	3,535	4,014	44,606	5,019	3,906
Indiana	426	104	87	5,141	152	234
Iowa	245	202	264	4,123	207	251
Kansas	935	446	545	25,822	1,993	2,480
Kentucky	282	138	86	2,194	158	190
Louisiana	16,198	9,860	15,171	277,431	16,810	14,557
Maine	0	0	0	0	0	0
Maryland	371	223	191	11,004	209	364
Massachusetts	1,565	1,320	2,241	51,486	2,419	3,186
Michigan	3,758	2,496	3,239	33,288	3,028	3,135
Minnesota	204	105	119	6,097	112	139
Mississippi	3,921	2,775	3,092	73,081	4,576	4,062
Missouri	161	80	135	7,464	311	340
Montana	39	0	1	420	21	30
Nebraska	59	21	37	2,656	34	77
Nevada	2,446	3,128	3,027	51,776	3,651	1,804
New Hampshire	0	26	0	564	31	24
New Jersey	1,835	419	528	29,528	553	1,341
New Mexico	3,092	1,802	1,918	33,376	1,999	2,225
New York	10,397	10,274	16,724	217,493	14,715	12,693
North Carolina	91	1	11	4,511	3	25
North Dakota	0	0	0	1	0	0
Ohio	307	96	114	3,485	122	246
Oklahoma	9,394	5,205	6,460	128,822	11,407	8,236
Oregon	1,335	1,102	1,471	10,686	1,641	920
Pennsylvania	406	257	225	7,368	365	212
Rhode Island	1,889	1,599	2,613	27,162	2,604	2,490
South Carolina	106	11	33	2,731	35	112
South Dakota	42	6	63	1,730	83	90
Tennessee	0	0	0	1,635	0	0
Texas	80,475	49,071	54,351	1,056,582	69,623	72,461
Utah	156	144	153	4,079	178	174
Vermont	3	47	65	36	4	2
Virginia	1,197	476	853	11,571	918	381
Washington	121	5	492	2,619	187	220
West Virginia	29	29	21	219	11	2
Wisconsin	1,108	353	418	15,772	467	400
Wyoming	3	200	7	95	15	15
Total	194,113	133,700	170,946	2,968,985	198,522	180,102

See footnotes at end of table.

**Table 18. Natural Gas Deliveries to Electric Utility Consumers,
by State, 1996-1998**
(Million Cubic Feet) — Continued

State	1997					
	October	September	August	July	June	May
Alabama	846	1,247	2,373	2,898	930	482
Alaska	2,689	2,296	2,439	2,734	2,579	2,902
Arizona	1,544	5,106	4,809	4,114	1,931	2,740
Arkansas	2,295	3,377	5,270	7,484	3,443	575
California	35,085	56,405	48,127	43,831	26,461	37,116
Colorado	642	667	716	703	337	393
Connecticut	1,873	1,769	2,362	2,474	1,400	1,169
Delaware	356	667	1,592	2,000	1,096	1,063
District of Columbia	0	0	0	0	0	0
Florida	21,226	26,875	33,664	33,336	31,395	29,651
Georgia	308	1,160	2,200	2,592	440	203
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	3,796	2,374	3,806	7,977	4,586	2,897
Indiana	312	268	530	1,863	796	232
Iowa	457	234	371	838	393	270
Kansas	2,646	2,113	3,491	6,349	3,142	1,237
Kentucky	201	181	312	525	170	21
Louisiana	22,089	30,559	34,584	39,937	29,959	25,574
Maine	0	0	0	0	0	0
Maryland	750	623	1,051	3,379	1,856	725
Massachusetts	3,140	4,800	5,595	6,031	6,223	3,821
Michigan	3,243	2,921	2,851	3,675	2,753	2,748
Minnesota	382	289	669	1,134	684	594
Mississippi	5,433	8,119	11,937	14,001	8,382	4,685
Missouri	557	749	1,212	2,789	1,022	95
Montana	40	27	46	115	8	7
Nebraska	354	263	364	878	218	108
Nevada	4,368	6,212	7,833	7,257	5,269	5,215
New Hampshire	54	54	70	11	319	0
New Jersey	2,087	1,349	4,239	8,143	4,610	1,478
New Mexico	3,227	2,835	4,338	4,022	2,922	2,443
New York	16,569	19,701	29,767	35,237	28,198	16,938
North Carolina	507	433	747	1,887	811	61
North Dakota	0	0	0	1	0	0
Ohio	397	268	304	1,073	596	106
Oklahoma	10,068	14,026	20,504	20,851	12,246	6,710
Oregon	2,368	2,367	2,531	306	126	3
Pennsylvania	301	418	923	2,722	886	294
Rhode Island	2,505	2,365	2,424	2,003	2,184	2,445
South Carolina	240	212	422	921	621	67
South Dakota	45	88	228	581	360	85
Tennessee	209	0	328	843	255	0
Texas	90,971	126,102	141,943	144,449	103,279	73,212
Utah	135	912	1,087	824	25	147
Vermont	4	2	4	4	3	3
Virginia	789	583	1,476	2,536	1,350	670
Washington	164	1,191	731	25	1	86
West Virginia	17	15	9	23	40	33
Wisconsin	743	697	895	2,168	1,686	1,851
Wyoming	6	5	3	4	13	6
Total	246,040	332,925	391,176	427,549	296,004	231,162

See footnotes at end of table.

**Table 18. Natural Gas Deliveries to Electric Utility Consumers,
by State, 1996-1998**
(Million Cubic Feet) — Continued

State	1997				1996	
	April	March	February	January	Total	December
Alabama	386	168	156	125	6,146	291
Alaska	2,923	3,593	2,438	3,221	31,767	3,078
Arizona	723	588	358	319	19,248	443
Arkansas	606	250	214	619	33,988	1,226
California	25,337	24,348	14,189	17,478	318,035	17,182
Colorado	264	326	259	395	5,511	454
Connecticut	1,260	967	1,238	197	10,456	131
Delaware	1,841	2,279	2,068	1,746	23,370	1,048
District of Columbia	0	0	0	0	0	0
Florida	28,108	28,965	17,145	10,578	283,557	13,124
Georgia	177	30	18	42	4,674	43
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	4,921	2,474	1,661	1,188	25,863	550
Indiana	221	220	151	162	4,330	236
Iowa	254	383	218	247	3,491	236
Kansas	847	558	413	553	22,607	672
Kentucky	117	130	80	111	1,836	82
Louisiana	19,124	15,862	13,616	14,761	252,139	12,921
Maine	0	0	0	0	0	0
Maryland	1,478	336	47	185	8,455	211
Massachusetts	6,630	5,273	2,793	1,575	45,037	1,562
Michigan	2,263	2,413	2,356	1,901	32,559	2,888
Minnesota	619	695	123	656	5,301	419
Mississippi	3,033	2,930	2,716	3,207	83,251	3,671
Missouri	173	77	52	85	5,223	69
Montana	15	18	27	64	470	72
Nebraska	172	81	77	31	2,351	82
Nevada	3,517	3,820	1,362	1,468	46,766	2,311
New Hampshire	0	0	0	0	3	0
New Jersey	1,868	2,091	1,023	746	25,825	445
New Mexico	2,547	2,768	1,990	2,059	29,969	2,244
New York	11,475	14,741	12,486	4,972	142,688	5,108
North Carolina	26	1	9	0	2,381	1
North Dakota	0	0	0	0	3	0
Ohio	107	71	71	125	2,867	106
Oklahoma	7,023	6,677	4,843	6,231	136,436	6,107
Oregon	0	171	0	253	14,015	334
Pennsylvania	326	324	316	281	7,239	282
Rhode Island	1,854	2,179	2,021	2,088	25,071	2,167
South Carolina	72	12	4	11	1,206	20
South Dakota	85	39	19	26	725	35
Tennessee	0	0	0	0	572	0
Texas	59,300	60,371	54,877	59,992	1,039,155	51,332
Utah	143	155	137	161	3,428	142
Vermont	3	3	2	2	24	3
Virginia	1,497	1,133	47	190	10,275	333
Washington	5	0	2	6	6,590	21
West Virginia	9	23	23	12	205	43
Wisconsin	1,768	2,154	1,773	1,169	7,303	702
Wyoming	6	6	7	9	87	6
Total	193,124	189,704	143,428	139,250	2,732,496	132,434

* Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-759, "Monthly Power Plant Report."

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998
(Million Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998		
				June	May	April
Alabama	167,377	152,754	162,483	24,005	26,256	24,632
Alaska	72,985	78,554	75,771	10,247	10,881	11,872
Arizona	64,051	57,468	53,046	7,467	7,574	10,115
Arkansas	NA	125,400	138,404	NA	19,755	19,046
California	958,013	904,987	838,767	120,557	140,353	150,888
Colorado	NA	NA	160,215	NA	18,619	24,655
Connecticut	70,281	75,353	70,802	7,280	7,933	10,871
Delaware	21,064	28,095	29,196	2,833	2,925	3,298
District of Columbia	19,855	20,234	21,483	1,348	1,720	3,025
Florida	232,291	241,416	231,111	48,225	42,720	32,801
Georgia	189,345	188,033	207,938	24,018	20,054	25,861
Hawaii	1,371	1,335	1,406	228	216	223
Idaho	35,910	34,667	34,626	3,876	4,186	5,684
Illinois	542,076	619,903	646,177	46,356	51,280	79,927
Indiana	NA	316,422	330,474	NA	32,851	NA
Iowa	NA	140,062	149,063	11,021	NA	20,383
Kansas	142,380	144,691	151,647	18,793	17,585	19,364
Kentucky	105,308	113,000	120,008	10,292	11,505	14,076
Louisiana	NA	655,007	691,635	NA	111,328	101,836
Maine	NA	3,443	3,216	NA	NA	470
Maryland	123,158	110,538	111,102	9,612	10,503	14,145
Massachusetts	NA	220,842	194,145	NA	NA	29,256
Michigan	505,837	573,409	596,628	43,866	51,642	77,995
Minnesota	170,740	199,267	202,315	14,579	14,749	21,649
Mississippi	NA	93,771	111,690	NA	NA	NA
Missouri	157,238	170,791	181,065	12,566	13,741	21,664
Montana	NA	30,938	31,557	3,638	NA	4,240
Nebraska	66,360	73,841	73,534	5,849	6,946	9,830
Nevada	66,084	63,088	61,665	9,447	9,976	11,035
New Hampshire	NA	12,514	11,624	NA	NA	1,864
New Jersey	322,200	340,731	352,036	31,639	41,616	47,096
New Mexico	67,715	63,564	59,716	7,214	9,770	10,367
New York	NA	723,512	NA	NA	NA	82,436
North Carolina	125,481	117,209	117,480	15,680	14,761	17,721
North Dakota	18,417	21,786	19,675	1,374	1,770	2,804
Ohio	463,653	533,454	557,550	38,783	45,665	67,612
Oklahoma	234,724	226,304	241,175	40,753	33,071	32,204
Oregon	NA	78,150	75,577	10,671	10,944	NA
Pennsylvania	NA	385,616	410,651	31,351	34,776	NA
Rhode Island	NA	46,200	41,715	4,612	NA	NA
South Carolina	86,368	79,703	78,632	11,503	11,680	12,349
South Dakota	17,065	20,200	20,206	1,209	2,114	2,244
Tennessee	NA	NA	147,073	16,972	17,809	21,904
Texas	1,698,176	1,674,019	1,839,818	320,021	293,705	265,438
Utah	75,883	73,112	69,687	6,931	7,559	12,218
Vermont	4,676	4,890	4,542	347	409	716
Virginia	129,028	128,361	132,568	14,963	14,715	18,956
Washington	NA	NA	122,294	NA	NA	NA
West Virginia	NA	64,028	66,657	NA	NA	9,140
Wisconsin	200,978	232,318	234,036	18,703	19,671	27,884
Wyoming	NA	40,360	38,967	5,041	5,547	5,317
Total	10,381,142	10,733,334	10,957,267	1,316,276	1,430,640	1,543,343

See footnotes at end of table.

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1998			1997		
	March	February	January	Total	December	November
Alabama	29,592	29,830	33,062	298,692	30,497	24,708
Alaska	13,040	12,516	14,428	149,454	15,194	12,577
Arizona	12,001	12,168	14,726	112,612	11,607	7,012
Arkansas	24,796	23,129	23,745	243,839	23,868	19,870
California	151,886	190,777	203,553	1,849,819	186,761	145,591
Colorado	29,769	32,868	35,907	NA	33,483	NA
Connecticut	13,255	14,383	16,558	133,522	15,668	11,787
Delaware	4,030	3,776	4,203	46,397	4,350	3,196
District of Columbia	4,064	4,747	4,951	32,732	4,605	2,768
Florida	36,986	32,925	38,634	481,758	39,073	29,623
Georgia	37,321	39,542	42,548	350,085	40,563	35,202
Hawaii	221	232	252	2,692	230	293
Idaho	6,585	7,284	8,295	61,769	7,188	5,520
Illinois	110,485	107,855	146,173	1,064,270	132,686	111,168
Indiana	62,620	57,078	68,688	556,723	68,314	53,950
Iowa	30,256	25,941	33,082	247,128	30,098	24,723
Kansas	29,491	26,029	31,116	269,575	30,998	24,659
Kentucky	21,967	21,257	26,211	204,648	26,970	21,324
Louisiana	110,398	97,310	111,920	1,337,463	109,377	101,574
Maine	610	629	777	6,247	733	692
Maryland	27,315	28,426	33,158	202,721	31,215	17,537
Massachusetts	36,408	38,350	42,828	379,218	38,422	30,307
Michigan	106,043	106,517	119,774	936,410	111,072	88,305
Minnesota	37,306	36,306	46,151	339,424	40,348	36,525
Mississippi	NA	17,463	NA	NA	18,874	15,871
Missouri	33,690	34,874	40,704	275,142	35,563	24,674
Montana	5,477	5,313	7,480	53,469	7,288	5,208
Nebraska	13,612	13,802	16,322	124,391	13,794	9,888
Nevada	11,071	11,832	12,723	126,547	12,298	7,731
New Hampshire	2,183	2,585	2,788	20,653	2,442	1,785
New Jersey	65,242	66,099	70,507	592,136	68,929	50,492
New Mexico	12,865	11,205	16,294	120,759	16,263	10,735
New York	107,969	115,160	NA	1,289,532	128,789	102,978
North Carolina	23,352	25,906	28,061	212,766	25,256	18,008
North Dakota	3,853	3,944	4,673	34,445	3,774	3,211
Ohio	98,218	99,776	113,599	891,844	108,921	85,201
Oklahoma	43,151	40,846	44,699	450,167	44,734	33,511
Oregon	NA	17,736	21,237	160,032	19,576	14,544
Pennsylvania	72,421	75,456	75,437	653,412	79,331	62,304
Rhode Island	7,900	7,949	9,352	82,097	8,705	7,313
South Carolina	15,673	17,097	18,065	151,658	16,684	12,984
South Dakota	3,588	3,464	4,445	32,342	3,736	3,059
Tennessee	31,153	28,238	NA	NA	31,651	20,204
Texas	285,133	248,941	284,937	NA	300,576	272,820
Utah	14,697	16,652	17,827	137,598	20,208	13,507
Vermont	918	1,085	1,202	8,055	988	724
Virginia	25,191	27,386	27,819	230,682	28,898	19,787
Washington	NA	NA	NA	NA	NA	NA
West Virginia	12,281	12,727	13,133	114,609	14,147	11,362
Wisconsin	44,076	39,114	51,531	397,071	47,427	41,410
Wyoming	NA	NA	8,805	71,643	6,697	6,583
Total	1,946,051	1,936,101	2,208,730	20,022,368	2,134,311	1,720,536

See footnotes at end of table.

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1997					
	October	September	August	July	June	May
Alabama	21,550	21,022	23,525	24,635	20,567	22,424
Alaska	13,135	8,860	10,572	10,563	10,423	11,115
Arizona	6,690	10,654	9,864	9,318	7,231	8,784
Arkansas	17,463	16,495	19,314	21,430	17,499	16,456
California	139,946	162,462	155,621	154,451	125,478	142,936
Colorado	12,378	10,250	11,625	10,720	13,218	19,870
Connecticut	8,456	6,691	7,568	7,999	7,448	8,957
Delaware	2,090	2,190	2,970	3,505	2,852	3,347
District of Columbia	1,452	1,245	1,226	1,202	1,513	2,317
Florida	35,594	40,869	47,412	47,771	45,693	45,019
Georgia	23,556	20,016	21,344	21,371	19,045	24,082
Hawaii	209	206	201	218	211	207
Idaho	4,450	3,482	3,021	3,441	3,556	4,298
Illinois	70,463	42,621	40,557	46,870	44,620	64,781
Indiana	36,918	27,578	26,544	26,996	29,386	39,518
Iowa	17,401	11,705	11,634	11,505	11,581	15,100
Kansas	15,783	13,484	16,116	23,844	15,726	17,059
Kentucky	14,326	9,949	9,434	9,646	9,592	12,569
Louisiana	109,871	116,287	121,396	123,951	115,741	113,669
Maine	486	329	294	271	323	434
Maryland	11,517	9,389	10,095	12,430	11,965	12,410
Massachusetts	23,079	20,467	22,754	23,347	28,231	25,392
Michigan	55,632	41,554	39,709	26,729	47,754	70,254
Minnesota	21,652	12,960	14,158	14,512	14,920	20,146
Mississippi	14,057	NA	NA	NA	16,531	13,189
Missouri	12,066	9,892	10,007	12,149	11,954	15,126
Montana	3,676	2,248	2,129	1,983	2,266	3,230
Nebraska	6,785	5,118	6,824	8,142	5,797	8,296
Nevada	9,078	10,632	12,185	11,535	9,932	10,829
New Hampshire	1,291	918	893	810	1,302	1,490
New Jersey	34,828	28,939	32,427	35,789	33,917	39,326
New Mexico	7,477	6,667	8,136	7,917	6,160	8,284
New York	76,363	74,703	85,694	97,493	93,399	94,944
North Carolina	13,573	12,137	12,973	13,611	13,375	15,140
North Dakota	1,875	1,327	1,314	1,159	1,384	2,260
Ohio	56,541	37,252	34,992	35,483	53,748	59,664
Oklahoma	29,633	33,919	41,269	40,796	33,405	30,523
Oregon	13,513	12,257	12,512	9,480	7,816	9,529
Pennsylvania	40,177	28,814	27,734	29,436	30,381	44,874
Rhode Island	5,310	4,739	4,757	5,072	5,713	6,909
South Carolina	10,286	11,465	10,162	10,374	10,987	11,697
South Dakota	1,587	1,153	1,210	1,397	1,503	2,004
Tennessee	16,202	16,619	16,625	14,883	NA	18,028
Texas	278,581	NA	336,135	333,317	288,867	263,252
Utah	10,682	6,491	6,865	6,734	5,981	6,869
Vermont	529	345	293	285	354	569
Virginia	13,199	11,565	14,326	14,545	11,949	16,730
Washington	NA	NA	NA	NA	NA	18,287
West Virginia	7,498	6,025	6,001	5,547	6,088	8,410
Wisconsin	26,493	16,641	15,927	16,856	16,978	26,124
Wyoming	5,250	4,006	4,271	4,475	4,900	6,272
Total	1,378,536	1,296,337	1,368,236	1,391,078	1,308,992	1,443,002

See footnotes at end of table.

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998
(Million Cubic Feet) — Continued

State	1997				1996	
	April	March	February	January	Total	December
Alabama	23,941	24,993	29,657	31,172	293,084	27,094
Alaska	12,759	15,201	13,022	16,033	150,877	15,528
Arizona	7,634	10,327	11,108	12,383	103,037	10,289
Arkansas	18,079	20,701	24,893	27,771	252,585	23,939
California	143,180	153,401	162,740	177,251	1,721,217	166,541
Colorado	22,723	31,268	NA	35,247	269,006	33,157
Connecticut	13,002	14,461	16,153	15,331	126,488	13,888
Delaware	4,765	5,651	5,917	5,563	54,020	4,253
District of Columbia	2,158	4,232	4,971	5,042	33,644	4,731
Florida	43,877	44,868	33,719	28,239	478,471	29,697
Georgia	29,290	30,048	40,351	45,217	374,882	42,005
Hawaii	215	226	237	239	2,672	220
Idaho	5,685	6,454	7,128	7,546	61,058	6,736
Illinois	89,460	117,095	132,731	171,217	1,104,972	149,698
Indiana	46,657	58,071	64,849	77,941	561,056	64,588
Iowa	20,283	25,468	28,940	38,690	260,140	33,840
Kansas	21,157	25,250	29,831	35,669	275,508	33,619
Kentucky	15,682	19,924	23,491	31,742	207,529	25,797
Louisiana	107,263	102,673	104,512	111,149	1,382,966	108,393
Maine	562	702	643	778	5,722	601
Maryland	17,306	20,426	23,169	25,264	189,901	22,026
Massachusetts	38,213	42,550	44,676	41,780	355,609	36,513
Michigan	87,580	111,995	120,468	135,357	980,555	114,489
Minnesota	28,959	40,103	43,694	51,447	348,671	47,484
Mississippi	13,005	14,795	17,431	18,819	216,524	16,183
Missouri	24,138	28,568	45,769	45,237	286,814	37,323
Montana	4,531	5,832	6,646	8,432	55,584	7,466
Nebraska	11,121	13,855	16,008	18,765	128,297	16,087
Nevada	9,548	11,806	9,961	11,012	122,449	10,973
New Hampshire	2,115	2,437	2,626	2,545	19,031	2,155
New Jersey	50,239	74,024	65,637	77,588	599,810	76,491
New Mexico	7,848	11,457	13,677	16,137	113,059	13,633
New York	111,890	134,862	148,697	139,721	1,121,742	NA
North Carolina	17,647	19,958	25,811	25,277	205,783	23,182
North Dakota	3,140	4,558	5,115	5,328	32,670	4,544
Ohio	75,370	98,118	113,373	133,181	915,035	111,994
Oklahoma	34,088	37,995	43,503	46,790	460,373	42,614
Oregon	11,918	14,443	15,716	18,728	160,626	17,626
Pennsylvania	60,019	73,750	84,428	92,163	684,022	80,392
Rhode Island	7,506	8,621	8,649	8,803	82,041	8,359
South Carolina	12,329	13,572	15,461	15,657	146,434	15,449
South Dakota	2,900	3,604	4,506	5,684	33,594	4,805
Tennessee	21,621	NA	34,363	33,577	256,053	30,041
Texas	251,146	285,767	269,998	314,990	3,585,201	284,720
Utah	11,451	13,240	16,675	18,897	129,651	16,258
Vermont	782	1,048	1,059	1,078	7,325	844
Virginia	20,370	21,630	27,864	29,819	230,140	28,550
Washington	16,880	23,019	24,824	27,478	231,767	26,206
West Virginia	12,384	9,734	13,142	14,271	115,622	13,051
Wisconsin	33,702	46,172	48,115	61,227	398,581	50,811
Wyoming	6,374	6,938	6,883	8,992	73,609	8,146
Total	1,634,490	1,932,838	2,085,746	2,328,265	20,005,508	2,086,126

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Gas volumes delivered for use as vehicle fuel are included in the annual total for commercial deliveries but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-759, "Monthly Power Plant Report."

Table 20. Average City Gate Price, by State, 1996-1998
(Dollars per Thousand Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998				
				June	May	April	March	February
Alabama	3.17	3.83	3.29	3.86	3.56	3.20	3.03	2.93
Alaska	1.72	1.82	1.58	1.67	1.68	1.71	1.73	1.72
Arizona	2.53	3.18	2.19	2.60	2.93	2.75	2.55	2.28
Arkansas	2.96	3.21	2.55	2.31	3.00	2.96	3.13	2.85
California	2.34	2.92	2.30	2.34	2.49	2.33	2.38	2.12
Colorado	NA	NA	2.27	2.43	2.46	NA	NA	NA
Connecticut	5.19	5.35	5.18	4.74	5.08	5.89	4.87	5.24
Delaware	2.69	3.98	3.54	4.35	1.79	2.63	2.73	3.02
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.41	4.01	3.69	2.96	3.15	3.92	3.25	3.20
Georgia	3.44	4.02	3.62	3.01	3.55	3.63	3.85	3.18
Hawaii	5.61	6.58	5.81	4.86	5.21	5.21	6.25	5.75
Idaho	1.93	2.22	2.15	2.56	1.94	1.96	1.81	1.94
Illinois	2.84	3.17	3.16	2.15	3.64	2.90	2.81	2.85
Indiana	NA	3.01	3.06	NA	2.80	NA	2.32	2.48
Iowa	3.50	3.55	3.02	1.98	4.17	3.33	3.42	3.33
Kansas	3.06	3.37	2.87	3.66	3.17	2.79	2.86	2.73
Kentucky	3.28	3.71	3.25	3.12	3.33	3.99	3.23	3.09
Louisiana	2.43	3.04	3.16	2.19	2.36	2.29	2.53	2.25
Maine	NA	4.24	4.42	NA	NA	3.25	3.25	3.25
Maryland	3.70	3.78	3.79	5.94	5.58	4.37	3.44	3.43
Massachusetts	NA	3.62	3.66	NA	5.18	3.48	3.30	2.89
Michigan	2.79	2.99	2.89	2.50	2.69	2.78	2.97	2.89
Minnesota	3.05	3.38	2.82	2.88	3.24	2.95	3.00	2.90
Mississippi	NA	3.37	3.23	NA	NA	NA	NA	2.99
Missouri	3.24	3.63	2.83	4.87	4.47	3.72	2.97	2.99
Montana	NA	3.25	2.84	2.39	NA	2.29	2.50	2.41
Nebraska	3.37	3.57	2.78	2.98	3.73	3.29	2.98	2.70
Nevada	3.11	3.41	2.65	3.37	3.25	3.00	3.29	3.00
New Hampshire	NA	4.19	4.11	NA	3.75	3.37	3.93	3.74
New Jersey	3.55	4.09	3.74	3.57	3.00	3.54	3.53	3.38
New Mexico	2.12	2.55	1.45	1.76	2.04	2.19	2.20	2.02
New York	NA	NA	3.42	NA	NA	3.01	NA	NA
North Carolina	3.63	4.00	3.70	3.83	3.66	3.91	3.49	3.47
North Dakota	2.82	3.30	2.72	2.34	2.74	2.86	2.91	2.85
Ohio	4.71	5.40	4.04	4.75	5.04	4.89	4.87	4.27
Oklahoma	2.57	3.13	2.54	2.51	2.46	2.36	2.38	2.61
Oregon	NA	2.46	2.13	3.22	2.78	NA	NA	2.31
Pennsylvania	NA	4.00	3.48	4.79	3.94	NA	5.26	3.64
Rhode Island	NA	4.24	3.96	3.61	NA	NA	3.38	3.35
South Carolina	3.43	3.70	3.88	3.81	3.90	3.66	3.34	3.05
South Dakota	3.35	3.65	2.77	2.91	4.42	4.37	2.60	3.66
Tennessee	NA	NA	3.95	3.39	3.90	6.62	2.42	3.84
Texas	2.97	3.66	3.08	2.65	2.97	2.94	2.84	2.87
Utah	3.20	2.54	2.16	2.73	2.62	2.89	3.23	3.68
Vermont	2.72	2.16	2.89	2.69	2.82	2.74	2.92	2.66
Virginia	3.72	4.15	3.68	4.32	4.37	3.64	3.25	3.63
Washington	NA	NA	2.18	NA	NA	NA	NA	NA
West Virginia	NA	3.17	3.22	NA	NA	3.61	2.58	3.15
Wisconsin	3.33	3.56	3.09	4.51	3.63	3.54	3.33	2.99
Wyoming	NA	3.06	2.39	2.53	NA	3.05	3.29	3.31
Total	3.17	3.55	3.19	2.97	3.12	3.22	3.22	3.08

See footnotes at end of table.

Table 20. Average City Gate Price, by State, 1996-1998
(Dollars per Thousand Cubic Feet) — Continued

State	1998	1997						
	January	Total	December	November	October	September	August	July
Alabama	3.18	3.65	2.60	3.97	4.17	3.83	3.88	4.10
Alaska	1.75	1.81	1.82	1.82	1.78	1.79	1.73	1.74
Arizona	2.46	3.15	2.53	3.48	3.80	3.74	3.16	2.98
Arkansas	3.09	3.23	3.19	3.44	3.61	2.87	3.28	2.78
California	2.35	2.98	2.65	3.30	3.18	2.74	2.79	3.72
Colorado	NA	NA	2.57	3.59	2.71	2.66	2.41	2.67
Connecticut	5.23	5.11	5.55	3.87	4.96	5.29	5.33	4.55
Delaware	2.71	3.57	2.40	5.73	5.23	1.44	3.17	3.51
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.81	3.97	3.85	4.45	4.64	3.82	3.31	3.41
Georgia	3.43	3.99	3.67	4.04	4.03	5.29	3.90	3.96
Hawaii	6.40	6.44	6.23	—	6.09	6.11	6.35	6.59
Idaho	1.89	2.12	1.79	2.07	2.01	2.17	2.50	2.16
Illinois	2.78	3.28	2.92	3.72	4.07	3.78	3.37	2.81
Indiana	2.49	3.02	2.64	3.21	3.88	3.15	2.87	2.54
Iowa	3.80	4.05	4.44	4.84	4.99	5.39	5.86	6.62
Kansas	3.56	NA	NA	4.29	3.61	3.47	3.11	2.88
Kentucky	3.22	3.83	4.07	4.28	3.89	3.57	3.62	3.68
Louisiana	2.81	3.05	2.85	3.73	3.43	3.01	2.56	2.58
Maine	3.25	3.84	3.10	2.72	4.11	3.79	4.43	4.34
Maryland	2.96	4.01	3.37	4.22	4.69	5.77	6.05	5.81
Massachusetts	3.40	3.95	4.03	4.14	4.52	4.58	4.91	5.29
Michigan	2.94	2.99	3.19	3.51	3.12	2.87	2.63	2.54
Minnesota	3.27	3.67	4.06	4.52	4.26	4.02	2.97	3.92
Mississippi	NA	NA	3.31	3.83	NA	NA	NA	2.87
Missouri	2.96	3.74	3.13	3.91	4.63	5.08	4.79	4.61
Montana	2.71	3.16	2.51	3.15	4.47	3.76	3.96	3.63
Nebraska	4.71	4.24	5.31	6.30	5.76	7.03	5.51	4.96
Nevada	3.03	3.39	2.84	3.71	3.46	4.12	3.99	3.87
New Hampshire	3.77	4.10	3.72	4.02	3.95	3.79	4.45	4.28
New Jersey	4.37	4.17	3.77	4.49	4.74	4.22	4.41	4.29
New Mexico	2.24	2.53	2.31	2.85	2.59	2.62	2.18	2.13
New York	NA	NA	NA	NA	NA	3.42	3.07	2.83
North Carolina	3.65	3.97	3.72	4.09	3.95	4.13	3.96	3.90
North Dakota	2.93	3.38	3.01	4.01	3.73	3.53	3.36	3.14
Ohio	4.82	5.16	4.35	4.66	5.09	4.91	5.51	7.16
Oklahoma	2.86	3.12	3.32	3.19	3.04	2.58	2.66	3.23
Oregon	2.53	2.58	2.42	2.73	2.48	3.12	4.01	3.45
Pennsylvania	3.68	4.08	3.71	4.32	4.60	4.56	4.95	4.03
Rhode Island	3.93	4.49	4.02	4.46	4.53	5.71	6.64	7.53
South Carolina	3.37	3.81	3.72	4.13	4.15	4.03	3.86	3.74
South Dakota	3.22	3.66	3.46	3.68	3.53	4.03	4.26	4.40
Tennessee	NA	NA	3.63	4.37	3.93	2.78	2.51	2.71
Texas	3.26	3.67	3.97	3.86	3.58	3.21	3.11	3.23
Utah	3.25	2.79	3.46	3.07	2.64	2.81	3.02	2.83
Vermont	2.59	2.33	2.64	2.77	2.34	2.29	2.33	2.41
Virginia	3.97	4.13	3.65	4.15	4.83	4.69	4.47	3.94
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	3.34	3.16	2.99	3.07	3.66	3.53	3.89	1.85
Wisconsin	3.21	3.80	4.93	3.75	3.91	4.52	4.75	3.68
Wyoming	NA	3.13	3.20	3.61	3.02	3.35	2.90	2.94
Total	3.28	3.59	3.47	3.92	3.90	3.57	3.39	3.50

See footnotes at end of table.

Table 20. Average City Gate Price, by State, 1996-1998
(Dollars per Thousand Cubic Feet) — Continued

State	1997						1996	
	June	May	April	March	February	January	Total	December
Alabama	3.86	3.54	3.16	3.20	4.02	4.44	3.48	4.07
Alaska	1.70	1.78	1.81	1.84	1.80	1.88	1.58	1.59
Arizona	3.32	3.18	2.61	2.22	2.85	4.21	2.78	4.14
Arkansas	2.77	2.59	2.48	2.46	3.16	4.18	2.76	3.68
California	2.67	2.55	2.30	2.25	3.21	4.14	2.59	3.81
Colorado	2.57	2.42	NA	2.32	NA	NA	2.70	4.91
Connecticut	4.76	4.81	4.94	4.82	6.00	5.82	5.11	6.15
Delaware	3.44	3.20	3.00	3.69	4.48	5.66	3.68	4.96
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.50	3.09	3.62	4.04	4.56	4.61	3.73	4.80
Georgia	4.37	3.20	3.08	3.31	4.15	4.80	3.77	4.65
Hawaii	5.46	6.47	7.21	6.50	7.73	6.16	6.05	6.67
Idaho	2.83	2.98	2.08	1.85	2.13	2.37	2.24	2.30
Illinois	3.11	3.06	2.48	2.43	3.30	3.79	3.27	4.05
Indiana	2.35	2.32	2.07	2.31	3.20	4.08	3.09	3.83
Iowa	4.74	3.49	2.83	3.05	3.66	3.98	3.47	4.09
Kansas	3.02	2.85	2.38	2.67	3.67	4.37	3.05	3.77
Kentucky	3.69	3.30	3.62	3.40	3.47	4.17	3.41	4.40
Louisiana	2.63	2.40	2.36	2.44	3.49	3.84	3.13	4.30
Maine	4.53	4.69	3.43	4.26	3.52	4.96	4.30	4.34
Maryland	4.34	4.15	3.15	3.32	3.75	4.14	4.02	4.65
Massachusetts	5.61	2.86	3.26	2.97	4.12	4.30	3.98	4.82
Michigan	2.69	2.60	2.56	2.66	3.28	3.98	2.90	3.73
Minnesota	3.49	2.64	2.41	2.70	3.48	4.51	3.07	3.78
Mississippi	2.95	2.43	2.89	2.82	3.48	4.25	3.27	4.34
Missouri	5.31	3.95	3.11	2.78	3.50	4.05	3.25	4.03
Montana	3.91	2.28	3.09	2.70	3.50	3.73	3.03	3.46
Nebraska	4.09	3.11	2.28	3.02	3.75	4.42	3.07	3.99
Nevada	3.64	2.72	2.81	2.96	3.37	4.13	3.10	3.97
New Hampshire	4.34	3.66	3.15	3.99	4.42	4.93	4.20	5.01
New Jersey	4.21	3.86	3.15	3.99	4.20	4.70	3.84	4.82
New Mexico	2.13	2.04	1.91	1.38	2.39	3.85	1.99	3.60
New York	2.96	NA	NA	NA	NA	NA	3.36	4.38
North Carolina	3.84	3.83	3.40	3.51	4.34	4.36	3.74	4.26
North Dakota	3.17	2.95	2.50	2.43	3.59	4.22	2.94	3.80
Ohio	6.17	5.96	5.79	5.01	5.41	5.24	4.37	4.79
Oklahoma	2.66	2.22	2.22	3.09	3.68	3.52	2.56	2.84
Oregon	3.00	3.02	1.95	1.92	2.35	2.95	2.42	2.95
Pennsylvania	4.90	4.30	3.48	3.48	4.12	4.22	3.77	4.24
Rhode Island	6.42	4.81	3.46	3.16	4.26	4.85	4.41	5.20
South Carolina	3.78	3.54	3.25	2.95	3.97	4.20	3.90	4.60
South Dakota	4.58	3.75	3.02	2.78	3.95	4.10	3.19	3.98
Tennessee	NA	2.96	2.51	NA	3.73	4.10	4.04	6.64
Texas	3.01	2.50	2.38	3.01	4.16	4.70	3.22	4.21
Utah	2.35	1.93	2.15	2.69	2.76	2.65	2.25	2.39
Vermont	2.58	2.77	2.39	2.26	2.16	1.57	2.74	2.67
Virginia	3.77	5.12	3.28	3.49	3.96	5.04	3.89	5.13
Washington	NA	2.53	2.70	1.89	2.62	3.45	2.44	3.14
West Virginia	3.90	3.02	2.88	2.17	3.54	3.61	3.36	3.53
Wisconsin	4.82	3.39	3.12	2.89	3.54	4.13	3.43	4.12
Wyoming	2.85	1.64	2.48	3.19	3.61	4.22	2.36	2.55
Total	3.38	3.14	2.94	3.05	3.78	4.27	3.34	4.18

NA = Not Available.

— = Not Applicable.

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 transferred from a pipeline to a local distribution company within the State. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998				
				June	May	April	March	February
Alabama	7.53	8.19	6.71	10.91	8.99	7.73	7.00	7.10
Alaska	3.69	3.74	3.38	4.02	3.83	3.66	3.71	3.65
Arizona	7.84	7.23	7.18	11.02	9.58	8.14	7.39	7.40
Arkansas	7.41	6.41	5.51	8.72	8.43	6.86	6.41	6.50
California	6.92	6.41	6.37	7.32	7.01	6.80	6.78	6.49
Colorado	NA	NA	4.23	NA	5.24	NA	NA	NA
Connecticut	10.36	10.38	9.90	11.11	11.57	9.78	10.18	10.33
Delaware	8.40	8.04	6.64	10.99	9.44	8.51	8.15	8.08
District of Columbia	8.78	9.16	8.95	8.50	9.70	8.86	8.62	8.44
Florida	11.07	11.81	10.01	13.30	13.08	11.34	10.51	10.47
Georgia	6.88	7.63	6.24	11.73	13.50	7.09	5.78	6.15
Hawaii	19.64	22.32	19.25	18.75	19.37	19.21	19.87	20.46
Idaho	5.23	4.96	5.13	5.86	5.59	5.38	5.18	5.14
Illinois	5.33	5.92	4.97	8.09	7.94	5.79	4.90	4.91
Indiana	NA	6.35	5.20	NA	8.81	NA	6.13	7.04
Iowa	5.55	5.78	4.96	8.41	7.80	6.36	4.79	4.97
Kansas	5.95	6.34	5.32	7.61	6.60	5.92	5.76	5.80
Kentucky	5.75	6.24	5.08	8.15	7.15	6.56	5.25	5.47
Louisiana	6.17	6.97	6.22	8.36	8.95	6.46	5.28	5.60
Maine	NA	8.48	7.67	NA	NA	7.90	7.90	7.90
Maryland	7.85	7.82	7.22	10.82	9.82	8.36	7.53	7.36
Massachusetts	NA	9.39	8.72	NA	NA	9.64	9.37	9.26
Michigan	5.00	5.01	4.70	6.23	5.85	5.11	4.69	4.92
Minnesota	5.32	5.65	5.13	7.15	6.45	5.60	5.18	5.11
Mississippi	NA	6.05	5.42	NA	NA	NA	NA	5.39
Missouri	6.18	6.25	5.56	8.84	7.40	6.14	5.58	5.86
Montana	NA	4.68	4.69	6.44	NA	5.15	4.97	5.03
Nebraska	5.14	5.54	4.53	6.42	5.99	5.09	4.74	4.93
Nevada	6.86	5.93	5.99	7.74	7.30	6.90	6.80	6.79
New Hampshire	7.95	8.44	6.95	8.20	7.07	6.50	8.50	8.38
New Jersey	7.44	7.71	6.96	9.32	6.80	7.71	7.39	7.23
New Mexico	5.25	6.05	4.41	31.23	9.69	6.26	4.55	5.23
New York	NA	9.95	8.32	NA	NA	9.26	8.54	8.62
North Carolina	8.22	8.95	7.07	11.81	9.29	7.91	7.77	7.93
North Dakota	4.92	4.44	4.50	7.03	5.96	5.12	4.79	4.68
Ohio	6.13	6.73	5.40	7.35	6.56	6.22	5.97	5.75
Oklahoma	5.77	6.16	5.22	8.37	6.84	5.56	5.43	5.73
Oregon	NA	5.92	6.17	7.48	7.19	NA	NA	6.44
Pennsylvania	NA	8.16	6.89	10.51	9.02	NA	8.05	8.03
Rhode Island	NA	9.36	7.99	10.94	NA	NA	9.03	8.86
South Carolina	8.19	8.70	7.15	9.76	8.44	7.88	8.02	8.27
South Dakota	5.41	5.33	4.81	6.54	6.88	5.88	5.31	5.07
Tennessee	NA	NA	6.12	8.15	6.95	6.42	5.96	6.31
Texas	6.00	6.15	5.50	7.94	7.31	6.29	5.14	6.58
Utah	5.56	4.92	4.39	5.39	5.72	4.85	5.51	5.73
Vermont	6.43	6.20	6.18	8.08	7.28	6.45	6.30	6.23
Virginia	8.31	8.40	7.30	11.73	10.14	8.28	7.75	8.05
Washington	NA	NA	5.53	NA	NA	NA	NA	NA
West Virginia	NA	6.87	6.84	NA	NA	7.55	6.85	6.78
Wisconsin	6.09	6.44	5.85	6.50	6.29	6.02	6.28	5.98
Wyoming	NA	3.90	4.31	5.99	5.79	5.25	5.13	5.14
Total	6.63	6.78	6.03	8.44	7.60	6.74	6.26	6.41

See footnotes at end of table.

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet) — Continued

State	1998	1997						
	January	Total	December	November	October	September	August	July
Alabama	7.41	8.39	7.32	7.99	11.10	11.62	11.70	11.26
Alaska	3.56	3.78	3.62	3.69	3.75	3.94	4.66	4.43
Arizona	7.23	7.80	7.59	9.17	11.33	9.10	10.54	10.05
Arkansas	9.42	6.64	6.23	6.40	8.66	9.53	9.25	8.64
California	7.28	6.82	7.20	7.49	7.81	7.42	7.57	7.05
Colorado	NA	NA	NA	NA	5.88	7.07	6.86	6.82
Connecticut	10.36	10.31	9.18	10.42	11.01	11.58	11.48	11.35
Delaware	8.07	8.42	8.11	8.76	10.81	11.91	11.94	11.69
District of Columbia	9.01	9.47	9.45	11.01	11.27	11.34	8.40	8.46
Florida	10.33	12.71	12.58	13.89	14.79	14.96	15.05	14.65
Georgia	6.40	7.45	6.11	5.95	8.02	10.57	11.75	11.87
Hawaii	19.99	21.71	20.40	20.84	21.04	21.33	21.61	21.17
Idaho	5.01	5.11	4.98	5.28	5.66	6.47	6.51	6.16
Illinois	4.88	5.95	5.39	5.65	6.07	8.00	7.87	7.83
Indiana	6.12	6.37	5.54	5.83	6.95	8.77	9.40	10.18
Iowa	5.49	6.27	6.09	6.52	7.80	11.19	10.25	9.53
Kansas	5.82	6.47	5.96	6.55	7.74	8.54	8.27	7.54
Kentucky	5.48	6.48	6.49	6.19	7.52	7.94	9.22	9.15
Louisiana	6.10	7.24	6.38	7.96	9.44	9.42	8.76	8.41
Maine	7.90	8.47	8.36	8.21	7.80	9.46	9.25	9.69
Maryland	7.38	8.21	7.61	8.71	9.91	10.72	11.35	10.88
Massachusetts	9.19	9.54	10.09	9.78	8.58	10.09	10.39	9.86
Michigan	4.85	5.15	4.93	5.08	5.74	6.81	7.26	6.88
Minnesota	5.07	5.79	5.17	6.12	6.58	7.62	7.17	7.06
Mississippi	NA	NA	5.67	6.70	8.29	NA	NA	NA
Missouri	6.30	6.57	6.45	6.68	8.83	9.59	9.38	8.77
Montana	4.87	5.07	5.33	5.42	5.84	6.73	6.98	7.46
Nebraska	5.28	5.87	6.19	6.19	7.53	7.90	7.72	7.43
Nevada	6.53	6.29	6.20	6.74	7.67	7.95	7.99	7.58
New Hampshire	8.30	8.48	8.46	8.87	7.47	8.98	9.17	9.01
New Jersey	7.41	7.85	7.48	7.63	8.52	9.80	9.82	9.62
New Mexico	3.72	5.75	3.61	4.47	8.32	10.84	11.07	11.66
New York	NA	10.32	10.22	10.65	11.75	12.64	12.76	12.49
North Carolina	8.33	9.00	8.05	8.23	11.20	13.11	13.15	12.42
North Dakota	4.52	4.93	5.57	5.67	6.26	7.54	7.02	7.05
Ohio	6.25	6.75	6.20	6.31	7.40	8.29	8.46	8.71
Oklahoma	5.56	6.35	5.56	6.17	8.93	9.28	9.36	8.95
Oregon	6.09	6.05	5.89	6.15	6.68	7.07	7.26	7.04
Pennsylvania	9.60	8.34	7.76	7.94	9.01	11.12	11.69	11.78
Rhode Island	8.83	9.61	8.97	9.74	10.64	12.10	12.53	12.30
South Carolina	8.17	8.60	7.98	8.00	9.53	10.15	10.24	9.73
South Dakota	5.01	5.75	5.94	6.17	6.98	9.10	8.07	8.39
Tennessee	NA	NA	6.81	6.89	8.33	8.81	9.00	8.92
Texas	5.42	6.41	5.67	6.50	8.07	8.67	8.91	8.38
Utah	5.83	5.10	5.25	5.66	4.62	5.55	5.94	5.61
Vermont	6.19	6.41	6.21	6.43	7.06	8.41	8.78	8.51
Virginia	8.11	8.83	8.42	9.02	11.07	12.27	12.45	12.40
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	6.81	6.76	5.83	6.58	5.98	8.89	9.58	10.39
Wisconsin	5.96	6.53	6.37	7.24	6.07	6.92	6.99	6.58
Wyoming	NA	4.54	6.24	5.19	5.54	6.09	6.31	5.83
Total	6.45	6.95	6.55	6.85	7.65	8.76	8.98	8.68

See footnotes at end of table.

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet) — Continued

State	1997						1996	
	June	May	April	March	February	January	Total	December
Alabama	10.45	8.69	9.21	8.65	7.61	7.62	7.22	7.36
Alaska	4.27	3.88	3.75	3.75	3.67	3.63	3.42	3.32
Arizona	9.59	8.68	7.93	7.03	6.81	6.62	7.52	6.85
Arkansas	8.23	6.93	6.40	6.14	6.09	6.48	5.92	6.64
California	7.71	6.38	6.18	6.42	6.27	6.27	6.44	6.20
Colorado	5.86	4.85	4.65	4.32	NA	NA	4.39	3.94
Connecticut	10.71	10.71	10.07	9.66	10.96	10.41	10.08	10.49
Delaware	10.13	8.93	8.25	7.94	7.75	7.54	7.12	7.59
District of Columbia	8.28	9.18	8.74	8.57	9.36	9.81	9.19	10.22
Florida	14.15	13.36	12.89	12.12	10.69	10.57	10.74	10.47
Georgia	12.38	10.42	6.23	8.88	7.47	6.53	6.69	6.75
Hawaii	21.51	21.78	21.30	22.29	25.55	21.14	19.81	19.51
Idaho	5.81	5.26	5.10	4.95	4.80	4.81	5.20	4.89
Illinois	7.93	5.43	5.10	5.28	6.50	6.15	5.28	5.13
Indiana	8.85	7.23	6.70	6.28	6.06	5.82	5.54	5.65
Iowa	8.08	6.21	5.24	5.58	6.01	5.57	5.49	5.71
Kansas	8.03	6.24	6.04	5.98	6.58	6.33	5.59	5.75
Kentucky	7.56	6.67	6.84	6.32	6.02	5.87	5.54	6.10
Louisiana	8.45	7.52	6.09	6.28	6.85	7.34	6.76	7.30
Maine	8.39	7.95	9.05	8.65	8.66	8.10	7.84	8.53
Maryland	9.62	8.26	8.14	7.31	7.64	7.68	7.60	7.81
Massachusetts	8.32	7.49	9.90	9.70	9.62	9.55	8.88	9.53
Michigan	6.15	5.10	4.92	4.82	4.94	5.04	4.96	5.07
Minnesota	6.36	5.32	4.66	4.81	5.81	6.50	5.46	6.18
Mississippi	7.36	6.91	6.42	5.49	5.61	6.17	5.72	6.58
Missouri	7.53	5.88	5.31	5.70	6.50	6.67	5.97	6.02
Montana	6.10	5.00	4.73	4.69	4.49	4.47	4.86	4.59
Nebraska	6.71	4.65	4.91	4.86	5.75	6.21	4.88	5.35
Nevada	7.31	6.63	6.16	5.78	5.76	5.54	6.19	5.69
New Hampshire	7.59	6.62	6.62	9.36	9.24	9.10	7.40	8.41
New Jersey	9.38	8.30	7.71	7.42	7.47	7.67	7.16	7.02
New Mexico	40.76	6.53	8.78	4.46	5.09	5.81	4.47	3.72
New York	10.88	9.51	9.11	9.73	10.13	10.43	8.90	NA
North Carolina	10.31	8.58	8.68	9.59	8.76	8.77	7.59	7.90
North Dakota	6.37	5.10	4.10	4.14	4.32	4.43	4.54	4.34
Ohio	7.42	6.74	6.60	6.51	6.83	6.72	5.90	6.29
Oklahoma	8.14	6.80	5.96	5.66	5.79	6.44	5.64	5.32
Oregon	6.82	6.38	6.04	5.85	5.76	5.73	6.31	5.95
Pennsylvania	10.15	8.88	8.41	8.05	8.05	7.64	7.38	7.60
Rhode Island	10.90	9.70	9.67	9.39	9.18	8.79	8.49	8.68
South Carolina	8.96	8.09	8.36	9.24	8.69	8.67	7.41	7.85
South Dakota	7.83	5.92	4.95	4.83	5.09	5.50	5.25	5.39
Tennessee	NA	6.49	6.39	NA	7.00	6.84	6.26	6.17
Texas	7.83	6.42	5.66	5.56	6.05	6.35	5.89	6.14
Utah	5.67	5.80	4.16	5.14	4.89	4.91	4.47	4.75
Vermont	7.35	6.52	6.23	6.08	6.04	6.04	6.40	6.19
Virginia	10.70	9.05	8.12	7.56	8.07	8.87	7.94	8.48
Washington	NA	5.69	5.68	5.48	5.40	5.39	5.65	5.44
West Virginia	8.47	7.26	6.91	6.80	6.67	6.68	7.02	6.80
Wisconsin	6.68	5.13	6.31	5.89	6.61	7.08	6.04	6.87
Wyoming	5.25	3.23	4.73	4.01	3.91	3.51	4.26	3.97
Total	8.24	6.84	6.57	6.53	6.80	6.74	6.34	6.47

NA = Not Available.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State,
1996-1998**
(Dollars per Thousand Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998				
				June	May	April	March	February
Alabama	6.42	7.03	6.00	7.24	6.18	6.00	6.27	6.47
Alaska	2.36	2.45	2.37	2.05	2.24	2.31	2.39	2.45
Arizona	5.75	5.13	4.98	6.19	6.14	5.79	5.50	5.59
Arkansas	NA	5.14	4.44	NA	5.16	5.23	5.04	5.19
California	6.53	6.55	6.18	5.91	5.68	6.65	7.06	6.75
Colorado	NA	NA	3.73	4.44	4.21	NA	NA	NA
Connecticut	7.23	7.65	7.67	5.88	7.03	6.86	7.42	7.28
Delaware	6.86	6.57	5.56	7.81	7.33	6.85	6.75	6.72
District of Columbia	7.35	8.05	7.34	6.97	6.99	7.09	7.46	7.34
Florida	6.75	6.81	6.48	6.70	6.83	6.71	6.69	6.72
Georgia	6.12	6.64	5.76	7.59	7.99	5.53	5.51	5.86
Hawaii	13.61	15.24	13.75	12.60	13.20	13.32	13.66	14.41
Idaho	4.53	4.42	4.53	4.83	4.77	4.76	4.46	4.40
Illinois	4.85	5.42	4.63	5.72	6.81	5.21	4.70	4.25
Indiana	NA	5.50	4.45	NA	6.35	NA	5.44	5.97
Iowa	4.41	4.97	4.09	4.17	5.48	5.19	3.72	4.08
Kansas	5.07	5.78	4.49	5.65	5.75	6.08	3.85	5.43
Kentucky	5.48	5.72	4.70	5.57	5.33	5.67	5.44	5.63
Louisiana	NA	6.27	5.88	NA	6.10	5.49	4.94	5.24
Maine	NA	7.84	6.96	NA	NA	7.41	7.41	7.41
Maryland	6.35	6.36	6.00	6.65	7.82	6.82	6.15	6.18
Massachusetts	7.42	7.57	6.92	6.55	6.86	7.65	7.46	7.73
Michigan	4.80	4.83	4.57	5.38	5.21	4.92	4.58	4.76
Minnesota	4.47	4.88	4.43	4.46	4.63	4.53	4.41	4.42
Mississippi	NA	5.12	5.49	NA	NA	NA	NA	4.35
Missouri	5.63	5.77	5.17	5.65	5.52	5.37	5.27	5.63
Montana	NA	4.56	4.56	5.47	NA	5.05	4.91	4.97
Nebraska	4.83	5.08	4.44	3.91	4.25	4.42	6.13	4.44
Nevada	5.73	5.00	4.86	5.91	5.75	5.76	5.69	5.76
New Hampshire	NA	7.89	6.53	NA	NA	6.06	7.64	7.57
New Jersey	4.18	6.46	6.50	3.74	3.84	4.17	3.83	4.13
New Mexico	4.19	4.64	3.36	6.66	5.15	4.42	3.91	4.35
New York	NA	6.88	NA	NA	NA	6.20	NA	NA
North Carolina	6.59	7.22	5.92	6.16	6.18	6.09	6.45	6.72
North Dakota	4.18	4.02	3.97	4.86	4.54	4.16	4.17	4.13
Ohio	5.73	6.40	5.01	6.30	5.76	5.79	5.62	5.43
Oklahoma	5.30	5.63	4.57	5.24	4.97	4.57	5.27	5.56
Oregon	NA	4.59	4.83	5.52	5.51	NA	NA	5.17
Pennsylvania	NA	7.47	6.20	8.25	8.23	NA	7.33	7.36
Rhode Island	NA	8.18	7.30	8.88	NA	NA	7.88	7.78
South Carolina	6.60	6.74	6.28	6.00	5.98	6.40	6.55	6.91
South Dakota	4.34	4.40	3.96	4.33	5.07	4.69	4.37	4.10
Tennessee	NA	NA	5.72	5.95	5.83	5.68	5.55	6.37
Texas	4.68	5.08	4.12	4.12	4.44	4.75	4.32	5.37
Utah	4.26	3.65	3.30	3.93	3.93	3.76	4.36	4.35
Vermont	5.24	5.23	5.26	5.30	5.98	5.14	5.10	5.23
Virginia	6.04	6.46	5.64	6.14	5.44	5.63	5.82	6.33
Washington	NA	NA	4.76	NA	NA	NA	NA	NA
West Virginia	NA	6.29	6.20	NA	7.34	6.60	6.32	6.26
Wisconsin	4.97	5.39	4.72	4.44	4.16	4.75	5.24	4.96
Wyoming	NA	3.40	3.99	NA	4.77	4.60	4.55	4.56
Total	5.52	5.84	5.32	5.53	5.61	5.54	5.36	5.54

See footnotes at end of table.

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1998
(Dollars per Thousand Cubic Feet) — Continued

State	1998	1997						
	January	Total	December	November	October	September	August	July
Alabama	6.65	7.04	6.61	6.83	7.46	7.59	7.50	7.60
Alaska	2.49	2.44	2.55	2.53	2.52	2.28	2.09	2.24
Arizona	5.65	5.33	5.56	5.83	5.83	5.82	5.34	5.22
Arkansas	5.14	5.21	5.12	5.45	5.75	5.54	5.18	5.32
California	6.69	6.48	7.04	7.09	6.70	5.88	5.00	5.90
Colorado	NA	NA	4.37	NA	4.65	3.95	4.63	4.39
Connecticut	7.73	7.36	7.60	7.71	6.46	6.59	5.22	5.63
Delaware	6.70	6.78	6.65	6.97	7.56	7.28	8.64	7.91
District of Columbia	7.65	8.05	8.11	8.78	8.08	8.11	7.20	6.92
Florida	6.83	6.94	7.31	7.41	7.13	6.94	6.62	6.98
Georgia	6.16	6.37	5.66	5.46	5.98	6.28	7.00	7.60
Hawaii	14.35	14.97	14.02	14.75	14.75	14.62	15.09	15.07
Idaho	4.41	4.47	4.34	4.66	4.73	4.73	4.83	4.76
Illinois	4.76	5.45	5.24	5.28	5.82	6.24	6.10	5.68
Indiana	5.52	5.38	4.97	4.92	4.93	6.05	6.07	6.50
Iowa	4.71	5.23	5.20	5.53	5.97	7.44	6.44	5.68
Kansas	5.44	5.72	5.71	6.00	5.92	5.66	4.90	4.95
Kentucky	5.32	5.79	5.92	6.03	5.42	5.90	5.95	6.20
Louisiana	5.73	6.28	5.94	7.10	7.30	6.20	5.94	5.39
Maine	7.41	7.70	7.79	7.62	6.84	7.61	7.16	7.12
Maryland	6.14	6.47	6.35	7.11	7.18	6.89	6.22	6.16
Massachusetts	7.39	7.31	8.03	7.74	5.63	5.45	5.53	5.34
Michigan	4.77	4.92	4.79	4.95	5.40	5.97	5.96	5.81
Minnesota	4.50	4.85	4.40	5.26	5.09	4.99	4.41	4.44
Mississippi	NA	NA	5.08	5.58	5.98	NA	NA	NA
Missouri	6.08	5.83	6.16	6.01	6.13	5.70	5.19	5.11
Montana	4.85	4.69	5.24	3.81	5.39	4.39	5.73	5.62
Nebraska	4.66	4.86	5.34	5.40	5.26	4.33	3.76	3.56
Nevada	5.63	5.13	5.36	5.47	5.48	5.22	5.22	5.11
New Hampshire	7.60	7.65	7.79	7.83	6.15	6.28	6.47	6.49
New Jersey	4.85	5.87	4.93	5.30	4.91	4.27	4.43	4.32
New Mexico	3.66	4.45	3.59	3.90	4.67	5.12	5.35	5.47
New York	NA	6.49	6.76	7.01	5.89	5.35	4.78	4.22
North Carolina	7.05	6.99	6.96	6.70	6.18	6.46	6.44	6.44
North Dakota	4.03	4.34	4.92	5.11	4.97	5.15	4.51	4.96
Ohio	5.96	6.31	5.94	6.05	6.22	6.54	6.82	6.76
Oklahoma	5.53	5.50	5.37	5.32	5.54	5.02	4.94	4.93
Oregon	4.92	4.64	4.67	4.74	4.66	4.82	4.89	4.76
Pennsylvania	7.14	7.37	6.90	6.89	7.26	7.68	8.05	8.12
Rhode Island	7.75	8.21	7.98	8.02	8.00	8.77	9.12	8.96
South Carolina	6.92	6.30	6.84	6.75	6.10	3.26	6.03	5.90
South Dakota	4.12	4.71	5.06	5.22	5.50	6.51	5.22	5.44
Tennessee	NA	NA	6.29	6.12	6.09	6.07	5.81	5.91
Texas	4.66	5.00	5.12	5.41	4.76	4.84	4.40	4.51
Utah	4.54	3.91	4.39	4.65	3.78	3.99	4.02	3.82
Vermont	5.21	5.18	5.15	4.99	4.91	5.01	5.43	5.42
Virginia	6.41	6.49	6.53	6.42	6.56	6.60	6.58	6.68
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	6.28	6.42	6.20	6.30	7.01	7.63	8.23	8.53
Wisconsin	5.12	5.41	5.52	6.04	4.88	4.85	4.71	4.30
Wyoming	NA	3.93	5.56	4.62	5.02	4.43	4.31	4.11
Total	5.57	5.78	5.72	5.84	5.73	5.62	5.40	5.35

See footnotes at end of table.

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1998
(Dollars per Thousand Cubic Feet) — Continued

State	1997						1996	
	June	May	April	March	February	January	Total	December
Alabama	7.22	6.85	7.11	7.26	6.92	6.97	6.19	6.52
Alaska	2.15	2.23	2.37	2.53	2.52	2.60	2.32	2.39
Arizona	5.21	5.19	5.09	5.27	5.11	5.01	5.01	4.99
Arkansas	5.37	5.14	4.90	4.86	5.07	5.42	4.68	5.59
California	6.32	5.33	6.10	6.71	6.98	7.18	5.94	6.36
Colorado	4.17	NA	NA	NA	NA	NA	3.67	3.32
Connecticut	5.76	7.00	7.24	7.66	8.45	8.09	7.41	7.90
Delaware	7.39	6.82	6.61	6.47	6.54	6.33	5.82	6.19
District of Columbia	7.03	6.87	10.06	7.61	7.97	8.24	7.37	8.01
Florida	6.93	6.89	6.74	6.96	6.84	6.56	6.45	6.47
Georgia	7.68	6.30	5.57	7.53	6.66	6.44	5.89	6.33
Hawaii	15.37	15.25	15.34	15.72	15.07	14.72	14.40	15.13
Idaho	4.78	4.66	4.62	4.36	4.29	4.30	4.56	4.34
Illinois	5.55	4.93	4.64	4.97	5.68	5.89	4.92	5.20
Indiana	6.28	6.15	5.97	5.37	5.43	5.14	4.67	4.98
Iowa	6.05	4.88	4.34	4.81	5.32	4.96	4.59	5.16
Kansas	4.90	5.25	5.17	5.46	6.25	6.12	4.61	4.90
Kentucky	6.00	5.53	5.85	5.72	5.80	5.61	5.09	5.67
Louisiana	6.19	6.08	5.08	5.83	6.48	7.08	6.08	6.87
Maine	6.94	6.67	8.28	8.10	8.12	7.75	7.09	7.87
Maryland	6.52	6.05	5.76	6.11	6.72	6.60	6.07	6.61
Massachusetts	5.04	5.44	7.94	8.14	8.28	7.97	6.74	7.91
Michigan	5.44	4.82	4.63	4.71	4.80	4.99	4.75	4.97
Minnesota	4.50	3.99	3.89	4.16	5.23	6.02	4.63	5.66
Mississippi	4.79	5.08	4.93	4.61	5.17	5.61	5.22	5.73
Missouri	4.86	4.39	4.55	5.07	6.47	6.58	5.35	5.83
Montana	5.39	4.81	4.52	4.57	4.45	4.46	4.64	4.49
Nebraska	5.88	5.00	3.91	4.23	5.24	5.91	4.47	5.38
Nevada	5.07	5.12	5.18	4.95	4.86	4.97	4.90	4.88
New Hampshire	6.20	5.86	6.52	8.67	8.81	8.41	6.74	7.75
New Jersey	4.38	5.77	5.57	6.99	7.10	6.73	6.14	6.31
New Mexico	7.67	4.23	4.63	3.54	4.37	5.36	3.35	3.34
New York	4.99	5.84	6.20	6.85	7.53	8.13	6.88	NA
North Carolina	5.99	6.02	6.50	7.85	7.67	7.52	6.18	6.78
North Dakota	4.54	4.25	3.66	3.65	4.09	4.24	3.91	4.06
Ohio	7.00	6.08	6.18	6.03	6.74	6.45	5.38	5.82
Oklahoma	5.15	4.97	4.81	5.26	5.75	6.40	4.70	5.04
Oregon	4.79	4.62	4.61	4.57	4.55	4.56	4.85	4.65
Pennsylvania	8.13	7.99	7.70	7.37	7.55	7.07	6.44	6.86
Rhode Island	8.77	8.07	8.46	8.17	8.20	7.88	7.50	7.89
South Carolina	5.92	5.92	6.59	7.20	6.87	7.18	6.26	7.01
South Dakota	6.09	4.77	4.04	3.96	4.28	4.61	4.20	4.34
Tennessee	NA	5.39	5.01	NA	6.19	6.51	5.72	5.78
Texas	4.80	4.60	4.29	4.42	5.28	6.00	4.27	5.38
Utah	3.60	3.37	3.09	3.81	3.75	3.81	3.38	3.69
Vermont	5.41	5.58	5.10	5.15	5.21	5.24	5.24	5.20
Virginia	6.10	6.31	6.29	5.93	6.61	6.97	5.93	6.74
Washington	NA	4.83	4.21	4.71	4.72	4.65	4.80	4.76
West Virginia	7.78	6.81	6.42	6.22	6.13	6.09	6.03	5.85
Wisconsin	4.74	3.83	5.07	5.03	5.60	6.14	4.83	5.73
Wyoming	3.93	2.65	3.59	3.46	3.53	3.41	3.68	3.08
Total	5.61	5.36	5.45	5.72	6.09	6.15	5.40	5.78

NA = Not Available.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to commercial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998				
				June	May	April	March	February
Alabama	3.30	3.50	3.69	3.11	3.16	3.44	3.03	3.50
Alaska	1.46	1.52	1.45	1.40	1.43	1.42	1.45	1.52
Arizona	3.50	4.03	3.85	3.51	3.44	3.45	3.33	3.76
Arkansas	3.55	3.60	3.13	3.28	3.28	3.39	3.78	3.62
California	3.85	4.13	3.71	3.38	2.88	3.97	3.31	5.34
Colorado	NA	NA	0.85	NA	2.48	2.26	2.62	2.58
Connecticut	4.65	5.00	5.06	3.69	4.13	4.55	4.74	5.13
Delaware	4.20	4.27	4.07	4.35	4.32	4.63	3.79	4.08
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.43	4.50	4.25	4.20	4.46	4.58	4.40	4.29
Georgia	5.27	5.40	4.58	4.90	5.30	5.15	5.18	5.37
Hawaii	—	—	—	—	—	—	—	—
Idaho ^a	3.09	2.72	2.90	3.10	3.09	3.10	3.25	3.02
Illinois	4.15	4.71	4.00	4.49	4.18	4.02	4.08	4.12
Indiana	NA	4.33	3.50	NA	4.51	NA	4.56	4.29
Iowa	NA	3.91	3.41	3.18	NA	0.73	0.64	2.42
Kansas	3.45	2.97	2.92	3.11	3.31	3.56	3.61	3.67
Kentucky	3.95	4.24	3.79	3.48	3.21	3.85	3.79	4.51
Louisiana	2.57	2.90	2.90	2.43	2.62	2.19	2.89	2.22
Maine	NA	5.84	5.53	NA	NA	6.02	6.02	6.02
Maryland	NA	NA	5.27	NA	5.02	5.10	4.68	4.82
Massachusetts	NA	6.37	5.83	NA	NA	6.64	6.77	6.70
Michigan	3.90	4.14	3.89	4.32	4.01	3.81	3.61	4.11
Minnesota	2.94	3.22	2.93	2.09	3.03	3.06	3.08	3.00
Mississippi	NA	3.44	3.44	NA	NA	NA	NA	3.22
Missouri	4.61	4.69	4.24	4.27	4.25	4.30	4.27	4.69
Montana	NA	4.82	4.81	3.72	NA	5.22	5.02	4.85
Nebraska	3.58	3.67	3.12	3.34	5.81	3.35	3.34	3.27
Nevada	5.93	7.29	4.93	5.81	5.94	5.84	6.00	6.06
New Hampshire	NA	5.20	4.52	NA	NA	3.77	5.47	5.84
New Jersey	3.44	4.04	4.08	3.39	3.43	3.42	3.24	3.42
New Mexico	3.59	3.37	3.00	3.45	3.77	4.00	4.09	5.84
New York	NA	5.17	5.28	NA	NA	4.49	15.18	NA
North Carolina	4.10	4.87	4.30	3.57	3.68	3.63	4.19	4.41
North Dakota	3.08	3.04	3.24	2.60	3.15	3.10	3.22	3.01
Ohio	5.35	5.87	4.08	5.05	4.98	5.21	5.67	5.06
Oklahoma	3.84	4.17	3.07	3.43	3.13	3.32	4.12	4.18
Oregon	NA	3.56	3.19	3.77	3.75	NA	NA	3.73
Pennsylvania	4.45	4.94	4.25	4.09	4.05	4.40	4.57	4.55
Rhode Island	NA	4.42	4.56	3.58	NA	3.86	4.06	4.25
South Carolina	3.43	3.67	3.84	3.21	3.31	3.42	3.53	3.38
South Dakota	3.35	3.92	2.77	3.54	3.44	3.37	3.38	3.25
Tennessee	NA	NA	3.89	3.50	3.54	3.64	3.59	3.98
Texas	2.46	2.72	2.45	2.24	2.44	2.49	2.49	2.44
Utah	2.99	2.39	2.11	2.78	2.90	2.95	3.05	3.19
Vermont	2.93	3.10	3.62	2.78	2.87	2.86	2.94	3.01
Virginia	4.08	4.62	4.16	3.44	3.01	3.45	4.08	4.99
Washington	NA	NA	2.53	NA	NA	NA	NA	NA
West Virginia	NA	2.91	2.76	NA	NA	2.97	2.79	2.75
Wisconsin	4.03	4.08	3.37	3.44	3.69	4.20	4.17	4.48
Wyoming	NA	3.37	3.10	3.82	4.19	4.12	NA	NA
Total	3.34	3.80	3.43	2.93	3.12	3.22	3.41	3.52

See footnotes at end of table.

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet) — Continued

State	1998	1997						
	January	Total	December	November	October	September	August	July
Alabama	3.47	3.46	3.57	3.62	3.66	3.21	3.21	3.08
Alaska	1.56	1.54	1.56	1.55	1.54	1.57	1.56	1.56
Arizona	3.53	3.56	3.37	3.20	3.68	3.26	3.10	3.16
Arkansas	3.77	3.70	3.98	4.28	3.87	3.58	3.57	3.42
California	4.55	4.07	4.45	4.63	4.28	3.50	3.42	3.79
Colorado	2.69	NA	NA	NA	2.95	2.40	2.28	2.19
Connecticut	5.12	4.72	4.81	4.96	4.29	4.07	3.86	3.93
Delaware	4.22	4.32	4.60	4.69	4.55	4.06	4.07	4.04
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.59	4.63	4.94	5.21	5.02	4.79	4.64	4.32
Georgia	5.63	5.18	4.61	5.04	4.80	6.43	4.68	4.81
Hawaii	—	—	—	—	—	—	—	—
Idaho	3.06	2.73	2.77	2.74	2.72	2.69	2.68	2.80
Illinois	4.22	4.71	4.92	5.69	4.57	3.83	4.48	4.15
Indiana	4.68	4.11	4.28	3.48	3.57	4.07	3.95	3.91
Iowa	3.43	4.12	4.56	4.55	4.42	3.90	3.52	4.11
Kansas	3.91	3.27	5.41	4.18	4.33	3.44	3.10	3.01
Kentucky	4.59	4.36	5.01	5.39	4.35	3.99	3.87	3.90
Louisiana	2.90	2.96	3.12	3.52	3.54	2.86	2.49	2.76
Maine	6.02	5.55	7.19	5.88	4.68	4.65	4.43	4.40
Maryland	5.42	NA	5.49	5.32	4.36	4.87	4.49	5.38
Massachusetts	6.79	5.97	7.02	6.63	4.54	4.19	4.02	4.19
Michigan	3.90	4.19	4.19	4.24	4.51	4.16	4.53	4.60
Minnesota	3.25	3.26	3.24	3.86	3.80	3.06	2.74	2.74
Mississippi	NA	NA	3.53	4.04	3.86	NA	NA	NA
Missouri	5.30	4.62	5.36	5.04	4.35	3.89	3.88	3.81
Montana	4.82	4.87	4.93	4.88	4.99	4.98	4.98	4.96
Nebraska	3.30	3.74	3.97	4.32	4.15	3.48	3.38	3.09
Nevada	5.90	7.89	8.10	9.69	11.58	9.23	7.42	7.08
New Hampshire	7.08	4.94	7.42	6.53	4.54	3.47	3.46	3.42
New Jersey	3.71	3.83	4.33	4.41	3.79	3.31	2.72	3.35
New Mexico	2.16	3.12	2.38	2.96	3.56	3.24	3.02	2.92
New York	NA	4.50	5.42	5.48	4.95	3.88	4.20	1.56
North Carolina	4.95	4.65	5.10	5.05	4.13	4.30	2.83	4.00
North Dakota	3.22	3.23	3.43	3.85	4.07	3.35	3.66	3.14
Ohio	5.62	5.70	5.60	5.54	4.99	5.55	5.38	4.42
Oklahoma	4.10	4.05	4.26	4.37	4.10	3.44	3.33	3.34
Oregon	3.67	3.45	3.91	3.65	3.04	3.03	2.96	3.15
Pennsylvania	4.80	4.73	4.56	4.59	4.46	4.21	4.14	4.59
Rhode Island	4.59	4.33	5.04	4.59	4.28	4.08	3.66	3.78
South Carolina	3.67	3.68	3.95	4.26	3.97	3.23	3.25	3.40
South Dakota	3.30	4.01	3.71	4.36	4.64	4.16	3.96	4.49
Tennessee	NA	NA	4.47	4.17	4.16	3.89	3.44	3.09
Texas	2.66	NA	2.80	3.51	3.29	NA	2.34	2.41
Utah	3.06	2.62	3.11	2.98	2.81	2.61	2.81	2.70
Vermont	3.06	3.07	3.11	3.12	2.97	3.00	2.96	2.97
Virginia	4.81	4.25	4.27	3.97	3.44	3.98	3.95	3.82
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	2.81	2.87	2.75	2.68	2.89	2.93	2.84	2.91
Wisconsin	3.79	4.12	4.53	5.05	4.19	3.54	3.24	3.20
Wyoming	3.29	3.39	3.55	3.55	3.32	3.32	3.34	3.38
Total	3.68	3.54	3.79	4.07	3.66	3.21	2.92	3.01

See footnotes at end of table.

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet) — Continued

State	1997						1996	
	June	May	April	March	February	January	Total	December
Alabama	3.20	3.19	2.96	3.15	3.91	4.57	3.64	4.61
Alaska	1.48	1.44	1.53	1.55	1.57	1.55	1.41	1.35
Arizona	3.90	3.90	4.31	4.06	3.74	4.32	3.80	3.81
Arkansas	3.37	3.17	3.19	3.31	3.78	4.45	3.28	4.33
California	4.00	2.51	3.45	4.24	5.32	5.49	3.77	4.40
Colorado	2.17	2.30	2.17	NA	NA	3.89	2.91	1.01
Connecticut	4.02	4.22	4.46	4.91	5.76	6.11	4.80	5.81
Delaware	3.99	3.62	3.62	4.35	5.03	5.29	4.32	5.00
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.40	4.34	4.41	4.42	4.68	4.69	4.21	4.52
Georgia	6.14	4.67	4.39	5.07	5.63	6.40	4.40	4.87
Hawaii	—	—	—	—	—	—	—	—
Idaho	2.52	2.73	2.75	2.75	2.76	2.78	2.78	2.42
Illinois	3.16	3.00	4.10	4.80	5.86	6.49	4.12	4.15
Indiana	4.38	4.50	4.67	4.41	4.21	4.19	3.62	4.16
Iowa	3.37	3.96	3.14	4.04	4.73	3.94	3.63	3.96
Kansas	3.03	2.57	2.32	2.34	3.45	4.33	3.09	4.85
Kentucky	3.61	3.73	3.82	3.97	4.67	4.78	3.87	4.64
Louisiana	2.71	2.39	2.34	2.09	3.49	4.19	2.84	4.07
Maine	4.45	4.10	5.77	7.08	7.10	6.95	5.22	6.60
Maryland	4.67	4.71	20.15	5.67	NA	5.31	5.36	4.63
Massachusetts	3.73	4.63	6.35	7.12	8.35	7.49	5.37	6.98
Michigan	4.41	4.24	4.12	4.15	4.02	4.16	3.87	4.06
Minnesota	2.72	2.67	2.58	2.74	3.73	4.66	2.97	4.18
Mississippi	3.21	3.06	2.98	2.93	3.80	4.45	3.43	4.47
Missouri	3.81	3.45	3.78	4.48	5.94	5.35	4.35	4.84
Montana	4.88	4.85	4.84	4.84	4.80	4.79	4.88	4.87
Nebraska	3.02	2.77	2.66	3.19	4.14	5.16	3.29	4.30
Nevada	7.50	7.77	5.80	4.67	8.34	9.50	4.90	4.67
New Hampshire	3.62	3.59	4.02	6.10	7.97	7.94	4.79	6.84
New Jersey	3.32	3.09	2.87	4.82	5.03	4.92	3.82	4.62
New Mexico	3.71	2.96	5.10	3.40	4.02	3.01	2.90	2.63
New York	4.32	4.49	4.58	5.22	5.72	5.93	5.04	5.17
North Carolina	3.64	4.01	4.14	4.80	5.41	5.63	4.37	5.14
North Dakota	3.02	2.42	2.37	1.60	4.94	4.39	3.02	3.89
Ohio	6.70	4.50	5.96	5.49	6.71	5.77	4.10	2.79
Oklahoma	3.32	2.75	3.08	3.90	4.53	5.41	3.26	3.87
Oregon	3.10	3.15	3.57	3.68	3.80	3.73	3.24	3.29
Pennsylvania	4.70	4.48	4.73	4.91	5.25	5.25	4.12	3.87
Rhode Island	3.74	4.72	3.56	4.50	5.52	5.64	4.67	9.64
South Carolina	3.32	3.26	3.21	3.43	4.22	4.74	3.77	4.58
South Dakota	4.08	3.55	3.12	3.00	4.00	4.99	3.50	6.16
Tennessee	NA	3.19	3.40	NA	4.75	4.80	3.92	4.52
Texas	2.46	2.31	2.03	2.08	3.19	4.10	2.58	3.82
Utah	2.27	2.27	2.31	2.53	2.53	2.44	2.10	2.28
Vermont	3.01	3.05	2.98	3.10	3.14	3.32	3.44	3.18
Virginia	3.88	4.03	3.11	4.79	5.51	6.33	4.07	3.91
Washington	NA	2.94	2.75	2.88	3.58	4.36	2.67	3.81
West Virginia	2.72	2.81	2.49	2.78	3.03	3.44	2.76	2.96
Wisconsin	3.28	2.98	3.89	3.55	4.41	5.06	3.48	4.79
Wyoming	3.35	3.24	3.40	3.40	3.41	3.40	3.14	3.25
Total	3.07	2.92	3.00	3.36	4.21	4.64	3.42	4.20

NA = Not Available.

— = Not Applicable.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 24. Average Price of Natural Gas Delivered to Electric Utility^a Consumers, by State, 1996-1998
(Dollars per Thousand Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998				
				May	April	March	February	January
Alabama	2.63	2.76	2.81	2.62	2.69	2.55	2.44	2.86
Alaska	1.85	1.63	1.23	1.84	1.84	1.85	1.88	1.85
Arizona	2.88	3.53	3.07	3.20	2.82	3.07	2.56	2.84
Arkansas	2.38	2.52	2.64	2.33	2.56	2.36	2.16	2.25
California	2.85	3.19	2.73	2.94	2.71	2.85	2.79	2.94
Colorado	2.65	3.77	1.86	2.56	2.53	2.61	2.65	3.01
Connecticut	2.65	2.56	2.68	2.56	2.70	2.79	2.63	2.74
Delaware	2.47	3.23	3.94	1.34	1.41	4.15	3.21	5.34
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.45	3.09	3.21	2.31	2.68	2.64	2.49	2.25
Georgia	3.11	2.84	4.03	3.72	1.94	1.72	2.88	2.35
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.37	2.35	2.87	2.37	2.55	2.34	2.28	2.25
Indiana	3.10	3.38	3.52	2.98	3.37	3.25	2.64	3.84
Iowa	3.20	3.36	3.66	3.16	3.14	3.35	3.00	3.36
Kansas	2.34	2.51	2.27	2.20	2.40	2.36	1.97	3.35
Kentucky	3.77	3.65	3.73	3.59	5.25	4.04	3.58	3.46
Louisiana	2.56	2.72	3.23	2.52	2.66	2.51	2.47	2.61
Maine	—	—	—	—	—	—	—	—
Maryland	3.18	3.40	3.83	2.96	3.33	3.18	3.32	3.75
Massachusetts	3.21	2.95	3.90	2.86	3.66	3.64	2.95	3.16
Michigan	0.95	0.57	0.79	1.20	1.35	0.75	0.84	0.51
Minnesota	2.74	2.31	2.37	2.74	2.76	2.83	2.62	2.63
Mississippi	2.46	2.68	3.68	2.41	2.56	2.46	2.46	2.48
Missouri	2.42	3.35	2.61	2.31	2.56	2.52	2.82	2.63
Montana	6.86	5.37	8.58	5.34	1.40	12.33	8.49	4.61
Nebraska	2.40	2.26	1.90	2.40	1.98	2.72	4.47	2.72
Nevada	2.33	2.06	2.04	2.44	2.31	2.02	2.37	2.41
New Hampshire	—	2.68	—	—	—	—	—	—
New Jersey	2.86	3.00	3.10	2.77	3.05	2.88	2.83	2.98
New Mexico	2.37	2.60	2.13	2.33	2.41	2.39	2.30	2.43
New York	2.86	2.88	3.38	2.64	2.87	2.96	2.95	3.00
North Carolina	2.99	2.70	2.70	2.89	3.37	4.03	—	3.02
North Dakota	—	3.49	3.32	—	—	—	—	—
Ohio	3.38	4.04	3.35	3.06	4.01	4.14	3.16	3.32
Oklahoma	2.93	3.31	3.28	2.52	2.88	2.62	2.72	4.47
Oregon	1.23	1.73	—	1.50	1.36	1.23	1.03	1.14
Pennsylvania	4.11	3.00	3.73	5.37	5.94	2.69	2.64	2.79
Rhode Island	3.37	3.21	2.32	3.43	3.45	3.19	3.24	3.48
South Carolina	3.46	4.00	4.72	3.41	3.44	3.58	3.53	4.05
South Dakota	—	—	—	—	—	—	—	—
Tennessee	—	—	1.20	—	—	—	—	—
Texas	2.44	2.65	2.44	2.38	2.52	2.43	2.41	2.49
Utah	—	—	20.25	—	—	—	—	—
Vermont	2.93	3.08	2.81	3.03	3.08	2.81	2.77	3.02
Virginia	3.34	2.80	2.75	2.99	4.46	3.34	3.78	3.05
Washington	2.79	7.18	5.16	—	5.59	3.86	4.11	1.64
West Virginia	4.40	4.41	3.65	3.58	—	—	—	5.59
Wisconsin	2.91	2.95	3.02	2.95	3.13	2.75	2.91	2.90
Wyoming	8.56	14.53	16.04	11.70	4.77	10.42	8.72	5.39
Total	2.54	2.80	2.74	2.46	2.59	2.54	2.51	2.64

See footnotes at end of table.

Table 24. Average Price of Natural Gas Delivered to Electric Utility Consumers, by State, 1996-1998
(Dollars per Thousand Cubic Feet) — Continued

State	1997							
	Total	December	November	October	September	August	July	June
Alabama	2.76	2.90	3.70	3.75	2.88	2.56	2.51	2.65
Alaska	1.74	1.84	1.84	1.85	1.88	1.69	1.87	1.79
Arizona	2.99	2.86	4.00	3.11	3.37	2.63	2.20	3.03
Arkansas	2.60	2.24	3.12	3.12	2.89	2.64	2.38	2.40
California	3.07	2.96	3.64	3.40	3.14	2.81	2.69	2.75
Colorado	3.21	2.93	3.90	2.37	2.42	2.77	4.07	2.31
Connecticut	2.55	2.74	3.38	2.76	2.37	2.35	2.33	2.26
Delaware	3.15	4.28	2.58	5.69	3.40	3.00	2.83	1.95
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.20	3.19	4.06	4.05	3.41	2.97	2.94	3.03
Georgia	2.76	4.97	3.33	3.94	3.07	2.27	2.75	3.13
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.54	2.48	3.31	3.13	2.82	2.39	2.31	2.37
Indiana	3.27	3.67	4.03	5.25	3.67	3.39	2.77	2.99
Iowa	3.27	2.99	4.16	3.81	3.28	3.12	2.70	3.28
Kansas	2.48	3.33	3.02	3.05	2.70	2.13	2.06	2.11
Kentucky	3.34	3.47	4.24	4.00	3.25	2.92	2.87	2.96
Louisiana	2.80	2.86	3.61	3.40	3.03	2.60	2.44	2.65
Maine	—	—	—	—	—	—	—	—
Maryland	2.97	3.61	4.10	3.91	3.42	2.89	2.35	2.69
Massachusetts	3.11	3.57	4.08	4.08	3.21	2.87	2.81	2.92
Michigan	0.79	0.47	1.08	1.59	0.73	0.58	0.96	0.84
Minnesota	2.54	2.99	3.72	3.67	3.56	2.43	2.43	2.34
Mississippi	2.75	2.80	3.51	3.35	3.02	2.61	2.46	2.52
Missouri	2.67	2.77	3.52	3.35	2.94	2.51	2.39	2.44
Montana	7.62	4.18	6.84	2.98	64.31	1.92	1.37	9.35
Nebraska	2.58	4.94	4.29	3.21	2.98	2.49	2.32	2.00
Nevada	2.17	2.16	2.80	2.64	2.39	2.02	1.98	2.09
New Hampshire	2.71	—	—	—	2.85	2.55	2.74	2.72
New Jersey	3.07	3.20	4.19	4.23	3.42	2.87	2.80	2.85
New Mexico	2.64	2.55	3.02	3.05	2.82	2.47	2.46	2.38
New York	2.89	3.38	3.83	3.39	2.89	2.60	2.58	2.65
North Carolina	3.16	3.60	4.95	3.68	3.38	3.09	3.12	2.87
North Dakota	3.81	—	—	—	—	—	4.00	—
Ohio	3.66	4.13	4.12	4.00	4.35	4.28	3.10	3.20
Oklahoma	2.97	2.89	4.05	3.46	3.20	2.48	2.37	2.63
Oregon	1.48	1.48	1.44	1.45	1.49	1.49	1.35	1.57
Pennsylvania	2.86	3.16	3.69	3.65	2.99	2.81	2.54	3.04
Rhode Island	3.39	3.78	4.05	4.02	3.32	3.04	2.98	3.21
South Carolina	4.15	4.46	4.00	4.10	4.54	4.54	4.35	3.51
South Dakota	—	—	—	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	2.70	2.74	3.33	3.15	2.85	2.50	2.39	2.46
Utah	2.11	—	—	2.00	2.66	1.79	1.86	4.82
Vermont	3.27	3.42	4.21	3.96	—	2.90	2.95	—
Virginia	2.99	2.54	4.09	4.73	3.77	2.95	2.58	2.93
Washington	5.54	5.73	5.16	4.21	8.62	0.67	4.83	3.83
West Virginia	3.87	3.31	3.00	3.29	3.41	3.71	3.79	3.23
Wisconsin	3.04	2.92	4.11	3.94	3.09	2.85	3.12	2.81
Wyoming	9.31	1.63	3.43	4.88	7.74	34.13	20.44	4.00
Total	2.81	2.85	3.48	3.30	2.99	2.58	2.49	2.59

See footnotes at end of table.

Table 24. Average Price of Natural Gas Delivered to Electric Utility* Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet) — Continued

State	1997					1996		
	May	April	March	February	January	Total	December	November
Alabama	2.44	3.21	2.12	2.04	4.37	2.95	4.32	3.16
Alaska	1.64	1.63	1.55	1.69	1.68	1.45	1.64	1.63
Arizona	3.11	4.47	2.85	4.01	5.70	3.03	7.53	4.76
Arkansas	1.92	1.98	1.60	1.92	4.18	2.52	3.88	2.62
California	2.60	2.63	3.04	4.14	4.67	2.75	4.55	3.40
Colorado	6.20	2.47	2.26	3.32	3.76	2.09	4.30	2.93
Connecticut	2.22	2.22	2.45	3.08	3.97	2.76	4.97	3.26
Delaware	3.68	2.53	2.61	2.90	4.87	3.13	4.06	3.65
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.87	2.58	2.62	3.80	5.18	3.12	4.75	3.38
Georgia	2.64	2.64	3.34	8.15	2.08	2.88	6.28	2.50
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.29	2.12	2.00	2.93	3.34	2.62	3.82	3.10
Indiana	3.06	2.88	2.74	3.74	5.04	3.48	4.80	3.86
Iowa	2.89	2.79	2.73	3.74	5.11	3.23	3.77	3.45
Kansas	2.14	2.00	1.80	2.92	4.56	2.25	4.10	2.62
Kentucky	2.83	3.13	3.20	3.69	4.85	3.49	4.64	3.51
Louisiana	2.45	2.18	2.10	2.93	4.35	2.94	4.37	3.12
Maine	—	—	—	—	—	—	—	—
Maryland	2.98	3.14	4.18	5.75	5.04	3.11	5.92	4.02
Massachusetts	2.84	2.54	2.64	3.29	5.37	3.07	4.85	3.85
Michigan	0.42	0.61	0.69	0.59	0.56	0.74	0.55	0.73
Minnesota	2.30	2.34	2.17	3.35	2.26	2.18	2.32	2.19
Mississippi	2.37	2.27	2.08	2.61	4.15	2.78	4.27	3.23
Missouri	2.74	2.77	2.26	4.62	5.41	2.58	4.90	2.61
Montana	13.57	2.87	4.08	9.68	3.54	2.89	1.81	1.66
Nebraska	1.89	1.89	2.29	3.20	3.22	2.07	4.37	2.85
Nevada	1.99	2.02	2.05	2.33	2.14	2.12	2.19	2.37
New Hampshire	2.68	—	—	—	—	—	—	—
New Jersey	2.76	2.69	2.57	3.60	4.65	2.96	4.39	3.16
New Mexico	2.39	2.07	2.01	2.85	4.07	2.31	3.80	2.94
New York	2.62	2.53	2.56	3.35	4.36	2.96	4.22	3.39
North Carolina	2.64	2.79	—	—	6.89	3.11	4.41	4.20
North Dakota	4.14	3.98	2.93	—	—	2.93	2.81	3.92
Ohio	4.13	4.06	4.03	4.16	3.87	3.44	4.27	3.92
Oklahoma	2.91	2.57	2.88	4.36	4.21	2.98	4.43	3.61
Oregon	—	—	1.40	—	1.96	1.33	2.01	1.42
Pennsylvania	2.57	2.31	2.72	2.91	4.65	2.85	4.57	3.31
Rhode Island	3.09	2.82	2.90	4.09	3.18	2.29	3.14	2.34
South Carolina	3.84	3.87	2.84	4.22	6.95	4.56	5.08	4.47
South Dakota	—	—	—	—	—	2.36	—	—
Tennessee	—	—	—	—	—	2.61	—	1.20
Texas	2.34	2.14	2.12	2.85	3.89	2.51	3.80	2.82
Utah	—	—	—	—	—	1.83	—	—
Vermont	2.83	2.27	2.61	3.60	5.05	3.22	4.42	3.37
Virginia	3.05	2.71	2.76	1.80	3.13	2.98	3.42	2.04
Washington	7.21	5.93	65.04	4.50	5.11	4.98	4.75	5.03
West Virginia	3.22	3.63	3.82	7.68	3.15	2.99	2.94	2.87
Wisconsin	2.58	2.46	2.33	3.42	4.74	3.04	4.29	3.48
Wyoming	11.82	24.02	22.85	2.47	13.99	12.59	26.41	17.57
Total	2.51	2.34	2.39	3.18	4.08	2.69	3.98	3.04

* Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

— = Not Applicable.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Sources: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998

State	YTD 1998		YTD 1997		YTD 1996		1998	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	June	
							Commercial	Industrial
Alabama	70.0	16.2	69.9	17.9	84.3	24.1	74.7	14.5
Alaska	57.9	100.0	57.2	98.3	69.8	64.0	53.6	100.0
Arizona	86.0	32.7	86.1	19.6	86.9	21.6	86.2	33.8
Arkansas	NA	9.6	94.9	11.8	96.0	13.8	NA	9.0
California	56.0	11.5	54.0	11.1	59.3	10.8	52.9	11.2
Colorado	NA	NA	NA	NA	94.0	13.8	91.8	NA
Connecticut	72.5	57.3	87.0	69.2	90.2	94.1	61.2	52.9
Delaware	100.0	24.5	100.0	32.4	100.0	45.4	100.0	19.3
District of Columbia	55.8	—	63.7	—	80.2	—	41.9	—
Florida	96.4	4.0	97.0	7.4	97.2	14.6	96.6	4.3
Georgia	87.0	15.8	89.9	16.6	96.2	36.1	79.0	15.1
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	88.0	2.3	87.6	2.2	88.2	1.4	85.3	1.8
Illinois	50.2	9.0	55.9	11.8	55.6	15.2	45.8	5.2
Indiana	NA	NA	76.7	14.3	97.3	19.3	NA	NA
Iowa	82.2	NA	89.2	7.1	89.2	7.7	70.3	4.5
Kansas	71.8	6.8	68.2	9.8	76.2	7.3	54.2	10.7
Kentucky	87.8	14.2	90.0	17.3	91.8	32.1	82.6	13.8
Louisiana	NA	7.1	98.3	8.9	98.2	10.0	NA	7.0
Maine	NA	NA	100.0	93.4	100.0	92.2	NA	NA
Maryland	50.7	NA	77.6	9.6	93.3	17.0	33.3	NA
Massachusetts	60.4	NA	66.2	21.6	81.6	30.3	46.3	NA
Michigan	61.6	7.6	65.4	8.0	70.2	11.1	40.8	4.8
Minnesota	94.5	41.2	98.5	40.6	97.3	41.7	98.2	40.7
Mississippi	NA	NA	95.5	37.2	97.6	42.2	NA	NA
Missouri	82.7	19.6	81.8	22.1	85.8	27.4	69.4	13.0
Montana	NA	NA	91.1	3.7	92.4	3.9	75.3	4.4
Nebraska	76.4	21.5	75.5	21.3	78.0	21.4	66.3	13.5
Nevada	75.4	1.9	73.4	2.2	77.5	1.8	70.9	4.6
New Hampshire	NA	NA	95.6	55.2	98.1	58.0	NA	NA
New Jersey	57.9	47.1	70.4	48.7	77.2	57.0	51.5	27.7
New Mexico	63.3	9.8	67.5	10.6	62.9	2.1	39.7	13.9
New York	NA	NA	61.3	6.4	NA	11.4	NA	NA
North Carolina	91.2	27.3	94.6	40.0	98.6	71.3	82.5	24.3
North Dakota	85.2	28.4	91.9	45.4	89.7	19.7	82.1	24.3
Ohio	57.2	3.1	66.8	4.8	72.9	8.7	44.7	1.3
Oklahoma	78.1	4.5	88.1	5.4	87.1	7.4	63.6	2.2
Oregon	NA	NA	98.7	19.5	98.4	22.6	98.9	14.9
Pennsylvania	NA	14.2	64.3	15.1	75.2	20.5	54.9	12.7
Rhode Island	NA	NA	86.0	18.7	98.6	20.4	53.3	33.4
South Carolina	98.2	86.3	97.4	83.1	99.5	85.3	97.4	88.2
South Dakota	84.5	35.7	85.6	24.6	85.8	32.3	72.8	24.9
Tennessee	NA	NA	NA	NA	96.1	51.9	66.6	23.3
Texas	64.3	14.5	63.5	18.4	84.5	20.5	63.8	15.2
Utah	83.4	8.4	84.5	9.2	82.9	9.3	75.6	9.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	73.2	14.0	78.4	11.8	89.0	20.6	66.8	9.3
Washington	NA	NA	NA	NA	87.1	28.8	NA	NA
West Virginia	NA	NA	58.2	12.1	58.1	15.2	NA	NA
Wisconsin	75.8	21.3	84.4	31.3	93.1	41.6	52.4	15.5
Wyoming	NA	NA	74.4	1.8	92.8	3.3	NA	2.3
Total	68.8	14.7	72.7	17.4	80.6	20.6	60.0	14.1

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

State	1998							
	May		April		March		February	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	35.4	13.3	80.2	14.8	77.8	17.4	80.1	17.8
Alaska	55.9	100.0	57.4	100.0	57.6	100.0	60.0	100.0
Arizona	83.3	35.8	84.9	32.7	86.7	34.0	87.2	27.7
Arkansas	87.3	9.0	89.5	9.1	93.9	10.2	95.3	10.9
California	48.3	11.7	52.7	10.9	71.1	16.5	54.3	8.7
Colorado	95.0	1.0	NA	0.8	NA	1.2	NA	1.2
Connecticut	76.3	55.7	62.3	61.9	71.2	59.4	78.2	57.8
Delaware	100.0	19.5	100.0	23.3	100.0	27.9	100.0	28.6
District of Columbia	47.7	—	52.5	—	60.1	—	59.0	—
Florida	96.7	3.5	96.8	4.5	96.2	4.4	96.3	4.0
Georgia	82.0	15.7	85.5	13.4	87.5	17.2	90.3	16.7
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	85.4	2.2	86.4	2.2	88.1	2.0	88.7	3.0
Illinois	34.8	6.8	44.3	9.1	55.3	10.6	50.4	9.8
Indiana	76.7	6.2	NA	NA	88.6	12.3	84.6	11.1
Iowa	87.3	NA	82.8	19.9	72.1	22.8	88.7	7.1
Kansas	68.5	8.1	69.5	5.6	76.9	5.5	73.1	5.3
Kentucky	84.2	14.7	85.7	14.7	90.0	13.1	86.5	17.2
Louisiana	96.5	7.3	98.1	7.2	58.2	9.8	60.9	6.0
Maine	NA	NA	100.0	97.9	100.0	97.9	100.0	97.9
Maryland	29.7	9.0	42.9	1.6	50.9	5.1	54.7	3.7
Massachusetts	52.8	NA	60.0	27.5	65.5	29.0	61.4	32.5
Michigan	42.2	5.9	58.3	9.6	64.3	12.1	65.2	12.6
Minnesota	98.5	35.1	96.1	38.9	96.2	48.8	93.3	37.4
Mississippi	NA	NA	NA	NA	NA	NA	94.8	38.5
Missouri	75.7	14.0	82.0	17.4	83.3	21.5	85.4	24.0
Montana	NA	NA	79.4	2.2	83.1	3.5	83.1	4.3
Nebraska	74.0	14.8	71.5	21.3	77.3	24.0	78.0	23.2
Nevada	71.9	4.8	73.2	5.8	75.9	7.1	79.8	15.3
New Hampshire	NA	NA	96.2	47.0	96.1	39.1	96.2	37.2
New Jersey	46.0	26.4	55.2	29.2	62.4	29.5	62.1	34.6
New Mexico	49.8	9.6	58.2	6.3	67.3	1.5	64.4	1.8
New York	NA	NA	58.1	10.1	NA	10.1	NA	NA
North Carolina	86.7	26.9	90.6	31.2	91.1	26.6	93.1	27.3
North Dakota	79.2	15.4	80.0	25.3	87.0	32.1	84.9	33.3
Ohio	41.4	1.5	53.9	2.7	60.1	3.2	60.2	4.7
Oklahoma	70.4	2.9	75.0	4.9	77.7	5.2	83.2	5.2
Oregon	98.8	15.0	NA	NA	NA	NA	99.2	15.3
Pennsylvania	59.4	13.2	NA	13.3	57.7	14.2	57.2	15.2
Rhode Island	NA	NA	NA	41.2	64.7	49.9	71.6	38.5
South Carolina	98.2	87.7	98.4	86.0	98.2	84.9	98.4	85.4
South Dakota	65.9	15.8	93.7	56.2	85.6	37.9	85.7	45.9
Tennessee	77.4	23.9	75.8	29.3	93.1	28.1	87.8	25.5
Texas	55.9	14.1	59.8	14.5	61.3	15.2	71.6	15.5
Utah	73.7	8.9	82.5	7.9	81.2	8.6	89.1	8.5
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	70.0	13.0	70.9	11.2	73.4	19.2	76.7	14.6
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	29.0	NA	50.3	5.8	51.9	6.2	29.9	14.9
Wisconsin	53.8	15.1	72.9	19.3	77.6	23.4	80.3	23.8
Wyoming	89.8	1.8	91.3	3.4	87.4	NA	80.3	NA
Total	60.3	12.4	67.0	15.0	71.6	16.5	70.5	15.3

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

State	1998		1997					
	January		Total		December		November	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	76.7	19.4	^R 56.8	^R 18.4	75.3	21.8	61.7	20.2
Alaska	59.9	100.0	^R 54.3	^R 97.8	54.1	100.0	51.7	100.0
Arizona	86.9	32.3	^R 84.5	^R 25.8	85.2	33.8	83.2	32.0
Arkansas	95.5	10.5	^R 93.9	^R 10.6	95.7	10.5	89.9	11.2
California	58.1	11.0	^R 50.2	^R 9.8	54.4	9.9	49.1	7.9
Colorado	NA	2.5	NA	NA	94.5	NA	NA	NA
Connecticut	78.4	61.0	^R 81.8	^R 66.5	76.9	62.9	71.0	67.0
Delaware	100.0	26.4	^R 100.0	^R 29.7	100.0	25.8	100.0	26.3
District of Columbia	60.2	—	^R 58.5	—	60.8	—	60.4	—
Florida	96.3	4.5	^R 96.6	^R 6.6	94.7	5.7	95.2	5.5
Georgia	88.7	16.5	^R 88.0	^R 16.9	90.6	22.7	87.3	18.3
Hawaii	100.0	—	^R 100.0	—	100.0	—	100.0	—
Idaho	90.0	2.5	^R 86.1	^R 2.2	86.6	2.0	83.2	1.9
Illinois	53.7	10.7	^R 53.3	^R 9.9	51.1	10.7	51.5	8.2
Indiana	85.7	11.2	^R 79.7	^R 13.3	85.7	14.2	91.5	19.2
Iowa	87.4	7.4	^R 87.2	^R 7.7	88.8	8.4	84.3	12.0
Kansas	71.5	5.1	^R 62.2	^R 7.7	55.9	4.3	56.7	5.5
Kentucky	90.0	12.3	^R 89.3	^R 15.5	90.6	14.2	89.2	14.4
Louisiana	74.1	5.4	^R 98.3	^R 8.1	98.0	6.3	97.4	7.4
Maine	100.0	97.9	^R 100.0	^R 91.4	100.0	89.7	100.0	92.2
Maryland	65.6	0.7	^R 64.5	^R 6.1	61.1	0.9	37.4	41.7
Massachusetts	64.3	30.3	^R 60.4	^R 18.7	66.2	31.6	60.0	32.2
Michigan	69.5	13.5	^R 62.8	^R 6.4	64.7	11.8	63.9	9.3
Minnesota	91.9	45.0	^R 98.5	^R 39.7	98.4	40.0	99.1	42.0
Mississippi	NA	NA	NA	NA	94.4	38.3	93.3	35.4
Missouri	85.2	23.7	^R 79.9	^R 21.3	82.7	22.9	78.3	19.9
Montana	88.3	4.7	^R 90.8	^R 3.1	92.7	3.8	90.4	2.8
Nebraska	79.9	30.1	^R 70.4	^R 21.5	74.1	20.4	68.9	34.2
Nevada	77.3	7.2	^R 71.3	^R 1.9	72.6	6.9	67.9	5.9
New Hampshire	96.4	30.4	^R 93.4	^R 49.3	94.0	32.4	89.1	34.2
New Jersey	59.4	31.7	^R 66.1	^R 48.8	62.6	32.9	58.9	32.2
New Mexico	71.5	8.3	^R 66.9	^R 14.2	75.5	16.3	70.9	14.1
New York	NA	NA	^R 57.5	^R 6.3	59.8	8.3	56.6	7.7
North Carolina	93.4	27.6	^R 94.1	^R 40.4	95.5	30.7	99.4	78.1
North Dakota	89.1	36.1	^R 88.2	^R 38.9	84.8	37.3	90.8	35.6
Ohio	60.5	4.5	^R 64.6	^R 3.9	66.3	5.1	66.5	4.2
Oklahoma	81.1	6.3	^R 85.1	^R 4.6	85.5	5.4	78.5	4.3
Oregon	99.3	19.7	^R 98.5	^R 16.5	98.4	16.0	98.4	14.5
Pennsylvania	58.7	16.3	^R 61.9	^R 13.8	62.4	12.3	61.9	13.9
Rhode Island	64.5	39.7	^R 80.5	^R 17.4	64.0	36.0	80.7	41.2
South Carolina	98.1	85.8	^R 98.0	^R 84.1	97.6	81.5	100.0	86.6
South Dakota	86.5	45.2	^R 83.3	^R 24.0	86.1	34.2	84.0	37.5
Tennessee	NA	NA	NA	NA	90.8	24.2	92.5	38.9
Texas	68.3	12.3	^R 60.4	NA	66.3	12.9	61.5	12.1
Utah	85.7	7.8	^R 83.2	^R 9.2	86.1	8.5	83.1	9.8
Vermont	100.0	100.0	^R 100.0	^R 100.0	100.0	100.0	100.0	100.0
Virginia	74.4	18.7	^R 76.9	^R 11.8	76.7	14.4	88.7	21.2
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	56.0	6.3	^R 51.3	^R 12.1	55.6	11.1	50.3	13.8
Wisconsin	85.4	26.0	^R 80.8	^R 28.5	82.1	27.9	84.7	28.9
Wyoming	NA	1.5	^R 73.4	^R 1.8	92.7	1.9	79.4	1.3
Total	72.3	14.9	^R69.3	^R16.1	72.0	15.1	67.3	16.2

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

State	1997							
	October		September		August		July	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	42.8	18.2	33.1	17.6	25.1	17.4	22.8	17.3
Alaska	52.1	100.0	49.7	100.0	44.8	92.8	49.7	91.4
Arizona	81.1	31.0	83.9	30.3	78.7	30.1	79.7	31.3
Arkansas	92.2	10.0	90.9	8.7	91.4	7.9	89.9	9.3
California	41.6	6.1	40.9	9.9	41.5	7.7	45.6	7.8
Colorado	89.4	29.9	92.1	26.1	86.3	25.1	88.9	35.1
Connecticut	68.5	66.5	74.9	65.5	80.1	62.1	75.9	63.5
Delaware	100.0	29.0	100.0	25.7	100.0	27.5	100.0	27.5
District of Columbia	44.5	—	35.5	—	38.8	—	43.9	—
Florida	96.7	6.0	96.9	6.1	97.3	6.9	96.9	6.3
Georgia	84.5	20.6	81.6	9.1	80.1	15.7	79.1	17.4
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	76.4	1.6	82.5	1.7	82.9	1.4	83.2	5.2
Illinois	49.1	7.1	46.7	10.4	39.4	5.3	45.8	3.4
Indiana	87.4	12.2	75.4	8.4	74.7	7.8	72.4	9.0
Iowa	79.4	10.3	77.2	5.9	84.5	6.5	75.0	5.3
Kansas	66.3	5.5	50.3	6.1	44.9	6.7	46.8	5.1
Kentucky	89.3	14.9	83.9	13.0	79.1	11.5	82.9	12.4
Louisiana	98.4	7.0	98.1	7.1	99.2	8.0	98.8	7.9
Maine	100.0	89.4	100.0	87.8	100.0	88.6	100.0	100.0
Maryland	50.5	5.5	49.0	2.0	54.3	4.9	57.5	3.4
Massachusetts	46.0	25.9	41.4	28.0	39.1	22.4	43.6	23.6
Michigan	53.3	4.2	38.8	3.1	39.8	3.9	54.7	5.8
Minnesota	98.6	38.0	97.7	41.5	98.3	34.2	98.4	35.6
Mississippi	89.5	37.5	NA	NA	NA	NA	NA	NA
Missouri	68.6	19.6	68.4	22.5	68.7	16.7	68.9	18.6
Montana	87.9	2.3	85.5	1.9	87.4	2.0	90.4	1.7
Nebraska	46.6	17.4	59.0	21.0	64.8	14.4	64.4	34.1
Nevada	65.9	5.5	62.9	4.6	63.1	7.0	73.2	10.2
New Hampshire	85.7	44.2	86.9	48.4	88.1	47.1	87.0	51.4
New Jersey	57.7	27.7	58.1	28.1	59.0	44.0	55.6	26.5
New Mexico	57.2	9.5	52.9	14.6	53.2	18.3	53.5	18.5
New York	49.3	8.1	49.8	6.2	44.0	7.8	49.6	17.7
North Carolina	98.2	68.8	86.4	21.2	84.4	24.2	84.6	20.4
North Dakota	84.0	26.1	74.7	19.4	68.8	28.1	46.5	34.6
Ohio	54.1	1.8	49.5	1.5	48.4	2.0	46.5	2.0
Oklahoma	75.7	3.1	75.5	3.2	73.6	3.0	79.0	3.8
Oregon	97.5	14.5	98.0	13.2	98.3	12.4	98.3	13.8
Pennsylvania	48.6	12.7	54.6	12.1	56.7	12.5	54.5	10.8
Rhode Island	71.1	39.9	68.7	33.6	67.9	39.6	71.1	41.7
South Carolina	99.9	87.5	98.5	84.8	96.4	82.2	99.9	89.1
South Dakota	68.3	17.8	59.9	14.0	72.1	12.7	78.3	12.0
Tennessee	86.4	26.8	82.4	18.2	80.4	19.8	80.7	24.4
Texas	59.4	13.9	47.0	NA	52.3	14.1	50.6	14.2
Utah	80.2	9.2	74.8	12.0	71.7	7.9	72.8	8.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	68.1	13.5	67.6	7.4	64.6	4.9	62.9	5.5
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	35.6	13.2	29.8	11.8	21.6	11.2	23.2	11.8
Wisconsin	67.9	25.7	60.9	22.8	53.8	21.3	66.1	20.4
Wyoming	79.7	2.0	79.2	2.3	75.8	2.1	28.8	2.1
Total	61.6	15.2	57.5	13.8	55.8	13.9	58.2	14.1

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

State	1997							
	June		May		April		March	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	49.5	17.2	55.5	18.0	59.3	17.3	76.2	17.9
Alaska	50.3	99.0	54.6	99.0	56.9	98.8	57.5	98.6
Arizona	82.7	18.7	86.1	18.1	83.8	20.2	86.5	20.1
Arkansas	90.7	10.2	91.4	11.3	93.5	10.9	94.9	12.1
California	48.2	8.9	49.5	13.0	51.6	10.6	54.5	11.0
Colorado	94.4	27.2	NA	25.5	NA	30.1	NA	NA
Connecticut	79.6	63.7	79.7	65.6	87.1	68.2	87.0	68.2
Delaware	100.0	28.2	100.0	34.4	100.0	35.6	100.0	32.7
District of Columbia	46.7	—	53.7	—	100.0	—	59.9	—
Florida	97.6	7.5	97.7	6.9	97.8	7.3	97.0	7.1
Georgia	82.7	13.4	83.9	12.9	87.2	15.9	88.9	15.7
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	83.3	2.3	86.5	2.5	86.1	2.1	87.8	2.1
Illinois	54.8	14.7	47.4	13.8	53.1	8.4	54.4	10.3
Indiana	39.6	9.2	38.3	9.6	82.1	10.6	86.5	12.7
Iowa	90.1	5.1	83.2	5.4	90.3	7.2	88.5	7.4
Kansas	56.1	4.6	58.3	13.1	66.1	10.8	60.1	10.7
Kentucky	87.7	14.1	85.3	15.7	88.2	14.9	89.6	15.5
Louisiana	98.6	8.3	98.5	9.0	98.1	7.6	98.6	10.7
Maine	100.0	88.5	100.0	91.2	100.0	91.3	100.0	91.8
Maryland	56.5	6.7	62.3	12.5	76.8	1.6	79.8	17.3
Massachusetts	46.1	32.3	67.1	41.7	72.2	38.5	70.9	34.4
Michigan	44.8	5.4	57.7	7.8	65.3	10.4	66.4	12.8
Minnesota	97.0	37.4	97.8	39.0	98.0	41.6	99.0	42.2
Mississippi	91.5	35.9	96.7	39.8	92.4	35.4	95.8	36.5
Missouri	71.5	18.5	76.9	24.1	80.7	16.7	83.9	27.3
Montana	88.7	2.2	90.2	2.1	91.1	4.5	90.4	4.1
Nebraska	61.4	16.1	68.2	20.5	72.3	17.1	70.8	20.2
Nevada	61.0	9.9	65.7	7.4	69.2	8.0	78.1	7.3
New Hampshire	90.7	55.4	91.6	59.1	92.0	62.3	94.0	53.6
New Jersey	60.8	26.3	56.5	28.5	64.0	36.9	68.5	30.3
New Mexico	43.1	8.1	59.5	10.9	58.1	2.8	70.5	3.9
New York	49.9	7.2	54.9	8.5	60.6	9.1	63.4	9.9
North Carolina	97.5	40.8	89.3	21.7	87.5	22.4	91.6	30.2
North Dakota	80.8	28.9	88.7	36.5	91.9	39.4	91.4	59.4
Ohio	49.2	1.9	58.0	3.2	64.8	3.3	69.2	5.5
Oklahoma	79.2	2.1	82.0	4.1	86.3	3.7	88.1	5.9
Oregon	98.1	17.3	98.5	16.7	98.5	20.3	98.8	21.0
Pennsylvania	54.7	13.1	48.0	13.3	64.7	14.1	64.3	15.4
Rhode Island	72.4	48.1	80.8	48.5	88.5	55.8	82.2	61.7
South Carolina	91.0	89.0	100.0	87.0	95.2	77.7	97.4	80.3
South Dakota	83.7	10.7	80.7	17.3	85.7	22.6	86.3	26.7
Tennessee	NA	NA	86.7	29.6	90.4	28.1	NA	NA
Texas	56.6	19.1	56.5	18.1	59.2	20.1	60.5	17.3
Utah	77.0	9.4	78.8	9.0	83.8	9.2	83.0	6.7
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	65.3	8.1	72.2	6.5	72.6	12.2	77.0	13.2
Washington	NA	NA	80.7	21.0	83.1	26.8	86.0	27.3
West Virginia	29.1	11.3	43.8	11.4	49.6	7.1	60.3	19.7
Wisconsin	58.8	19.9	75.5	27.6	81.8	25.6	87.4	34.0
Wyoming	52.1	1.9	77.8	1.8	62.1	1.9	74.0	1.8
Total	60.0	15.9	63.8	16.6	70.8	16.9	73.0	17.4

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

State	1997				1996			
	February		January		Total		December	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	79.7	19.5	77.7	17.7	81.1	22.6	80.7	22.4
Alaska	58.8	97.9	60.2	97.1	63.4	64.3	61.8	68.0
Arizona	87.8	22.6	87.4	18.2	85.2	19.7	84.1	19.9
Arkansas	96.6	13.6	96.1	12.9	95.0	13.3	95.7	13.8
California	58.5	11.3	58.0	11.3	54.9	11.2	56.1	9.9
Colorado	NA	NA	NA	19.6	93.2	7.4	94.3	7.1
Connecticut	90.2	78.8	90.1	76.0	87.0	84.6	87.9	80.1
Delaware	100.0	34.0	100.0	28.8	100.0	37.3	100.0	30.8
District of Columbia	62.8	—	67.9	—	70.5	—	65.3	—
Florida	96.6	8.7	96.1	9.1	97.1	13.4	96.1	12.5
Georgia	92.7	21.1	93.7	20.0	94.1	32.2	93.2	31.6
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	89.7	2.2	87.8	1.9	86.6	1.4	87.6	2.6
Illinois	54.3	9.8	62.0	14.6	53.9	13.7	56.1	22.5
Indiana	93.0	19.8	93.7	20.1	96.3	16.6	97.4	21.4
Iowa	89.4	7.2	90.3	9.6	87.7	9.0	87.2	11.7
Kansas	65.7	11.6	86.2	8.1	71.7	7.7	71.6	8.3
Kentucky	90.8	19.4	91.9	22.1	90.8	27.1	91.9	24.1
Louisiana	98.4	8.6	97.9	9.5	98.3	10.6	98.0	11.3
Maine	100.0	100.0	100.0	100.0	100.0	91.0	100.0	90.2
Maryland	82.8	14.7	84.5	2.8	91.9	11.7	93.2	19.7
Massachusetts	67.3	36.8	67.3	34.3	74.7	41.9	68.9	33.8
Michigan	69.4	14.2	69.2	14.0	66.9	12.5	70.2	15.8
Minnesota	98.7	45.0	98.6	37.3	96.2	41.3	95.6	44.5
Mississippi	96.3	37.6	96.9	38.4	97.4	41.7	96.9	44.1
Missouri	79.9	19.5	86.3	28.3	82.2	24.7	84.6	33.1
Montana	93.0	4.1	90.9	4.4	91.5	3.4	92.7	4.3
Nebraska	87.9	25.6	77.6	27.3	70.0	20.4	76.6	23.5
Nevada	79.7	9.1	77.2	8.3	74.2	7.2	74.9	7.8
New Hampshire	99.1	52.1	98.8	44.2	96.9	55.4	96.1	45.4
New Jersey	93.5	36.0	70.6	35.9	73.3	53.6	70.2	35.5
New Mexico	72.5	2.1	74.0	19.4	64.7	3.5	71.8	13.3
New York	65.8	10.0	66.3	11.8	77.0	14.7	NA	13.1
North Carolina	95.9	39.6	100.0	90.1	96.5	59.4	99.0	91.6
North Dakota	93.9	49.5	93.4	43.3	88.0	26.5	91.0	43.9
Ohio	68.5	5.6	72.5	8.4	71.8	7.4	74.0	10.0
Oklahoma	90.5	8.7	90.7	7.4	84.5	6.6	87.6	7.1
Oregon	98.9	22.5	98.8	19.0	98.3	18.0	98.6	16.0
Pennsylvania	69.8	14.9	69.3	18.9	70.4	18.5	61.0	22.3
Rhode Island	91.7	45.9	89.6	38.1	91.8	16.9	89.1	12.4
South Carolina	97.9	78.2	100.0	86.8	99.0	85.8	100.0	89.3
South Dakota	85.7	30.4	86.9	31.4	82.7	24.6	82.8	23.5
Tennessee	92.5	28.7	94.0	35.9	94.3	47.0	95.3	42.8
Texas	68.1	17.1	71.1	19.2	83.5	20.2	87.1	17.5
Utah	87.2	10.8	86.2	10.2	81.9	9.0	84.4	9.7
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	81.6	6.8	87.5	7.9	85.3	18.0	88.1	22.1
Washington	86.7	26.8	87.8	26.7	85.9	24.4	87.4	27.2
West Virginia	67.8	14.8	67.8	14.4	56.3	14.3	71.3	14.4
Wisconsin	87.3	35.9	88.8	37.6	91.6	36.4	91.8	34.5
Wyoming	82.1	1.9	85.0	1.5	85.9	2.9	69.0	3.1
Total	76.9	17.7	77.9	19.4	77.6	19.4	78.1	20.0

^R = Revised Data.

NA = Not Available.

— = Not Applicable.

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

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Figure 6. Percentage of Total Deliveries Represented by Onsystem Sales, 1994-1998

Sources: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

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 evaluating the monthly data. There is a brief description of what data are estimated and what data are taken from submitted reports, followed by ten technical notes that provide important information for individual data series.

The monthly data are preliminary when initially published. Data shown in this report for the most current months are taken from the EIA Short-Term Integrated Forecasting System (STIFS) model computations. Each month, EIA staff review the STIFS model estimates and adjust them, if necessary, based on their knowledge of new developments in the natural gas industry. Data for prior months are estimated or taken from submitted reports.

Table A1. Methodology for Reporting Initial Monthly Natural Gas Supply and Disposition Data

Components	Reporting Methodology
Supply and Disposition	
Marketed Production	Reported on Form EIA-895 and Estimated from Historical Data
Extraction Loss	Derived from Marketed Production
Dry Production	Marketed Production minus Extraction Loss
Withdrawals from Storage	Reported on Form EIA-191
Supplemental Gaseous Fuels	Derived from Supply Estimates and Coal Gasification Information
Imports	Estimated from National Energy Board of Canada Information and Liquefied Natural Gas Information
Additions to Storage	Reported on Form EIA-191
Exports	Estimated from Industry Trends and Liquefied Natural Gas Information
Current-Month Consumption	Estimated from Historical Month-to-Month Percent Changes
Consumption by Sector	
Lease and Plant Fuel	Derived from Marketed Production
Pipeline Fuel	Derived from Estimates for Lease and Plant Fuel and Deliveries to Consumers
Residential	Estimated from Reports to the Sample Survey Form EIA-857
Commercial	Estimated from Reports to the Sample Survey Form EIA-857
Industrial	Estimated from Reports to the Sample Survey Form EIA-857
Electric Utilities	Reported on Form EIA-759

For data that are not taken from STIFS computations, Table A1 below lists the methodologies for deriving the monthly data to be published.

The STIFS model contains a series of calculations that produce forecasts for all of the energy industry. It is driven primarily by three sets of inputs or assumptions: estimates of key macroeconomic variables, world oil price assumptions, and assumptions about the severity of weather. The natural gas estimates also reflect other key inputs or assumptions including gas wellhead prices, electric power generation by other energy sources, and U.S. gas import capacity. The macroeconomic variable estimates are produced by DRI/McGraw-Hill but are adjusted by EIA to reflect EIA assumptions about the world price of oil, energy product prices, and other assumptions which may affect the macroeconomic outlook. The EIA publishes forecasts for the energy industry each quarter in the *Short-Term Energy Outlook*.

For production, total supply and disposition, and storage data (Tables 1, 2, and 9), the most current two months shown are estimates produced from STIFS computations, and data that are two months or more prior to the date of publication are estimated or taken from submitted reports. For example, in the March issue of the NGM, February and March data are taken from the STIFS model computations while January and prior months data are estimated from available data sources or reported directly on EIA forms. For consumption data by sector (Table 3), the most current three months shown are estimates produced from STIFS computations while data that are three months prior to date of publication are taken from EIA forms.

Note 1. Nonhydrocarbon Gases Removed

Annual Data

Data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are reported by State agencies on the voluntary Form EIA-895. For 1995, of the 33 producing States, 22 reported data on nonhydrocarbon gases removed. The 22 States accounted for 60 percent of total 1995 gross withdrawals. Of the 22 States reporting nonhydrocarbon gases removed, 11 reported zero values: Alaska, Arizona, Arkansas, Colorado, Illinois, Maryland, Missouri, Nevada, New York, South Dakota, and Virginia. The ten States reporting

volumes greater than zero are Alabama, California, Florida, Kentucky, Mississippi, Nebraska, New Mexico, North Dakota, Texas, and Wyoming. In addition, Kansas, Louisiana, Montana, and Oklahoma, which together accounted for 40 percent of gross withdrawals, did not report nonhydrocarbon gases removed separately. However, their gross withdrawal data excluded all or most of the nonhydrocarbon gases removed on leases. No estimates are made for States not reporting nonhydrocarbon gases removed.

Preliminary Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Seven States report monthly data on nonhydrocarbon gases removed: Alabama, Arizona, Mississippi, New Mexico, North Dakota, Oregon and Texas. Monthly data for California, Colorado, Florida, and Wyoming are estimated based on annual data reported on Form EIA-895. Nonhydrocarbon gases as an annual percentage of gross withdrawals reported by each of the six States is applied to each State's monthly gross withdrawal data to produce an estimate of nonhydrocarbon gases removed.

Final Monthly Data

Beginning with report year 1990, States filing the Form EIA-627, "Annual Quantity and Value of Natural Gas Report," were asked to supply monthly breakdowns of all data previously reported on an annual basis. The sums of the reported figures were used to calculate monthly volumes. In 1997 the Form EIA-627 was discontinued. States were requested to file an annual schedule on the monthly Form EIA-895, "Monthly Quantity and Value of Natural Gas Report."

For States not supplying monthly data on the annual schedule of the EIA-895, final monthly data are calculated by proportionally allocating the differences between total annual data reported on the Form EIA-895 and the sum of monthly data (January-December).

Note 2. Supplemental Gaseous Fuels

Annual Data

Annual data are published from Form EIA-176.

Preliminary Monthly Data

All monthly data are considered preliminary until after the publication of the *Natural Gas Annual* 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.

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. 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 ratio is applied to the revised monthly sum of these three elements to compute final monthly data.

Note 3. Production

Annual Data

Natural gas production data are collected from 33 gas-producing States on Form EIA-895 which includes gross withdrawals, vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, marketed production (wet), and extraction loss. The U.S. Minerals Management Service (MMS) also supplies data on the quantity and value of natural gas production on the Gulf of Mexico and Outer Continental Shelf. No adjustments are made to the data.

Estimated Monthly Data

State marketed production data for a particular month are estimated if data are unavailable at the time of publication. The data are estimated based on final monthly data reported on the Form EIA-895 for the previous year.

Estimates for total U.S. marketed production are based on final monthly data reported on the Form EIA-895 for the previous year. State estimates for nonhydrocarbon gas removed, gas used for repressuring,

and gas vented and flared are based on the ratio of the item to gross withdrawals as reported on the EIA-895. These ratios are applied to the month's estimates for gross withdrawals to calculate figures for nonhydrocarbon gases removed, gas used for repressuring, and gas vented and flared. Estimates for gross withdrawal data are calculated from final monthly data filed on Form EIA-895 for the previous year.

Preliminary Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Preliminary monthly data are published from reports from the Form EIA-895 and the MMS. Volumetric data are converted, as necessary, to a standard 14.73 psia pressure base. Data are revised as Table 7 monthly data are updated.

Final Monthly Data

Final monthly data for 1993, 1994, and 1995 are the sums of monthly data reported on the annual Form EIA-627, "Annual Quantity and Value of Natural Gas Report." For prior years, the differences between each State's annual production data reported on the EIA-627 and the sum of its monthly IOGCC reports for the year were allocated proportionally to the monthly IOGCC data.

Note 4. Imports and Exports

Annual Data and Final Monthly Data

Annual and final monthly data are published from the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*, which requires data to be reported each quarter by month for the calendar year.

Preliminary Monthly Data - Imports

Preliminary monthly import data are based on data from the National Energy Board of Canada and responses to informal industry contacts and EIA estimates. Preliminary data are revised after the publication of the article "U.S. Imports and Exports of Natural Gas" for the calendar year.

Preliminary Monthly Data - Exports

Preliminary monthly export data are based on historical data from the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*, informal industry contacts, and information gathered from natural gas industry trade publications. Preliminary monthly data are revised after publication of "U.S. Imports and Exports of Natural Gas" for the calendar year in which the report month falls.

Note 5. Consumption

All Annual Data

All consumption data except electric utility data are from the Form EIA-857 and Form EIA-176. No adjustments are made to the data. Electric utility data are reported on Form EIA-759.

Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual*.

Total Consumption

Preliminary Monthly Data

The most current month estimate is calculated based on the arithmetic average change from the previous month for the previous 3 years. The following month this estimate is revised by summing the components (pipeline fuel, lease and plant fuel, and deliveries to consumers).

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly total consumption is obtained by summing its components.

Residential, Commercial, and Industrial Sector Consumption

Preliminary Monthly Data

Preliminary monthly residential, commercial, and industrial data are from Form EIA-857. See Appendix C,

"Statistical Considerations," for a detailed explanation of sample selection and estimation procedures.

Average Price of Deliveries to Consumers

Price data are representative of prices for gas sold and delivered to residential, commercial, and industrial consumers. These prices do not reflect average prices of natural gas transported to consumers for the account of third parties or "spot-market" prices.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. 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.

Agricultural Use

Beginning with the reporting of 1996 annual data, the EIA changed the customer category used for reporting deliveries to consumers in the agricultural industry from commercial to industrial. In 1995 and earlier years, consumption of natural gas for agricultural use was classified as commercial use. Separate reports of the volumes affected are not available so the direct impact of this change is not known. Most natural gas consumed in agriculture is used to drive irrigation systems and to dry crops.

For the reporting of monthly data, the customer category will not be changed until 1998. In 1996, the monthly data reported under the old classification were adjusted to the annual data reported under the new classification. Monthly 1997 data will be adjusted in the same way as the 1996 data.

In comparing sectoral use over time, note that:

- There is an inherent shift in natural gas volumes from the commercial to industrial sectors due simply to changes in the reporting requirements. This break in series may indicate a spurious increase in industrial consumption with a corresponding decrease in the commercial sector.
- The sum of natural gas volumes consumed by the commercial and industrial sectors will not be changed by this modification of the instructions.

Electric Utility Sector Consumption

All Monthly Data

Monthly data published are from Form EIA-759.

Pipeline Fuel Consumption

Preliminary Monthly Data

Preliminary data are estimated 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 total consumption figure to compute the monthly estimate.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. 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 total consumption figure to compute final monthly pipeline fuel consumption estimates.

Lease and Plant Fuel Consumption

Preliminary Monthly Data

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.

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly plant fuel data are based on a revised annual ratio of lease and 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 on the Form EIA-627 and estimates from the Form EIA-176. See the *Natural Gas Annual* for a complete discussion of this process.

Note 6. Extraction Loss

Annual Data

Extraction loss data are calculated from filings of Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." For a fuller discussion, see the *Natural Gas Annual*.

Preliminary Monthly Data

Preliminary data are estimated based on extraction loss as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly extraction loss.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual extraction loss data to each month based on its total natural gas marketed production.

Note 7. Natural Gas Storage

Underground Natural Gas Storage

All monthly data concerning underground storage are published from the EIA-191. A new EIA-191 became effective in January 1994. Injection and withdrawal data from the EIA-191 survey are adjusted to correspond to data from Form EIA-176 following publication of the *Natural Gas Annual*.

Underground and Liquefied Natural Gas Storage

The final monthly and annual storage and withdrawal data for 1991 through 1995 shown in Table 2 include both underground and liquefied natural gas (LNG) storage. Underground storage data are obtained from the EIA-191 and EIA-176 surveys in the manner described earlier. Annual data on LNG additions and withdrawals are taken from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying it to annual LNG data.

Types of Underground Storage Facilities

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.

Note 8. Average Wellhead Value

Annual Data

Form EIA-895 requests State agencies to report the quantity and value of marketed production. When complete data are unavailable, the form instructs the State agency to report the available value and the quantity of marketed production associated with this value. A number of States reported volumes of production and associated values for other than marketed production. In addition, information for several States which were unable to provide data was obtained from Form EIA-176. It should be noted that Form EIA-176 reports a fraction of State production. The imputed value of marketed production in each State is calculated by dividing the State's reported value by its associated production. This unit price is then applied to the quantity of the State's marketed production to derive the imputed value of marketed production.

Preliminary Monthly Data

A preliminary estimate of the U.S. gas price is made each month based on the change in the production-weighted gas price from five States: Kansas, Mississippi, New Mexico, Oklahoma, and Texas. Gas prices for these five States are used because both their gas production and value represent a substantial sample of the U.S. gas production and value (roughly 50 percent), and their prices are readily available and provide a consistent series. The latest preliminary U.S. gas price estimate is calculated by multiplying the preliminary U.S. gas price estimate for the prior month by the ratio of the five States' gas price for the latest month to that

of the prior month. This estimate replaces the initial gas price estimate.

Final Monthly Data

Preliminary monthly gas price data for Kansas, Mississippi, New Mexico, Oklahoma, and Texas are replaced by final monthly data that are adjusted to match the annual prices published in the *Natural Gas Annual* for each State. A revised set of the monthly U.S. gas price estimates are derived based on the monthly change in the production-weighted prices for these five States and adjusted to match the U.S. gas price published in the *Natural Gas Annual*.

Note 9. 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 quantities lost or to the effects of data reporting problems.

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.

Annual Data

Annual data are from the *Natural Gas Annual*. For an explanation of the methodology involved in calculating annual "balancing item" data, see the *Natural Gas Annual*.

Preliminary Monthly Data

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 supply/disposition.

Note 10. Heating Degree-Days

egree-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 data bases maintained by the National Oceanic and Atmospheric Administration. The information published in the Natural Gas Monthly 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.

 

Appendix B

Data Sources

The data in this publication are taken from survey reports authorized by the U.S. Department of Energy (DOE), Energy Information Administration (EIA) and by the Federal Energy Regulatory Commission (FERC). The EIA is the independent statistical and analytical agency within the DOE. The FERC is an independent regulatory commission within the DOE which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. The EIA conducts and processes some of the surveys authorized by the FERC. Data are collected from two annual surveys and four monthly surveys.

The annual reports are the Form EIA-176, a mandatory survey of all companies that deliver natural gas to consumers or that transport gas across State lines, and the Form EIA-627, a voluntary survey completed by energy or conservation agencies in the gas-producing States.

The monthly reports include two surveys of the natural gas industry and two surveys of the electric utility industry. The natural gas industry survey is the Form EIA-191 filed by companies that operate underground storage facilities, and the Form EIA-857 filed by a sample of companies that deliver natural gas to consumers. The electric utility industry surveys are the Form EIA-759 filed by all generating electric utilities and the Form FERC-423 filed by fossil fueled plants. Responses to these four monthly surveys are mandatory.

A description of the survey respondents, reporting requirements, and processing and editing of the data is given on the following pages for each of the surveys.

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

Survey Design

The original version of Form EIA-176 was approved in 1980 with a mandatory response requirement. Prior to 1980, published data were based on voluntary responses to Bureau of Mines, U.S. Department of the Interior predecessor Forms BOM-6-1340-A and BOM-6-1341-A of the same title.

In 1982, the scope of the revised EIA-176 survey was expanded to collect the number of electric utility consumers in each State, volumes of gas transported to industrial and electric utility consumers, detailed information on volumes transported across State borders by the respondent for others and for the responding company, and detailed information on other disposition. These changes were incorporated to provide more complete survey information with a minimal change in respondent burden. The 1982 version of the Form EIA-176 continues to be the basis for the current version of this form.

In 1988, the Form EIA-176 was revised to include data collection for deliveries of natural gas to commercial and industrial consumers for the account of others. A short version of Form EIA-176 was also approved in 1988. Companies engaged in purchase and delivery activities but not in transportation and storage activities may file the short form. Usually, these companies are municipals handling small volumes of gas.

In 1990, the Form EIA-176 was revised to include more detailed information for gas withdrawn from storage facilities, gas added to storage facilities, deliveries of company-owned natural gas and natural gas transported for the account of others. The revised form was approved for use beginning with report year 1990.

Upon the Office of Management and Budget's approval in 1993, the Form EIA-176 was again revised. All deliveries to consumers are now categorized as firm or interruptible. Commercial and industrial consumers are further categorized as nonutility power producers or as those excluding nonutility power producers.

Data reported on this form are no longer considered proprietary. Response to the form continues to be mandatory.

Survey Universe and Response Statistics

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, and field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities) and/or that transport gas to, across, or from a State border through field or gathering facilities.

Each company and its parent company or subsidiaries were required to file if they met the survey specifications. The original mailing in 1996 for report year 1995 totaled 1,991 questionnaire packages. To this original mailing, 11 names were added and 61 were deleted as a result of the survey processing. Additions were the result of comparisons of the mailing list to other survey mailing lists. Deletions resulted from post office returns and determinations that companies were out of business, sold, or not within the scope of the survey. After all updates, the survey universe was 1,941 responses from approximately 1,800 companies.

Following the original mailing, second request mailing, and nonrespondents followup, 1,911 responses were entered into the data base, and there were 30 nonrespondents.

Summary of Form EIA-176 Data Reporting Requirements

The EIA-176 is a multiline 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 April 1 of the following year. Extensions of the filing deadline for up to 45 days are granted to any respondent on 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.

Routine Form EIA-176 Edit Checks

A series of manual and computerized edit checks are used to screen the Form EIA-176. The edits performed include validity, arithmetic, and analytical checks.

The incoming forms are reviewed prior to keying. This prescan determines if the respondent identification (ID) number and the company name and address are correct, if the data on the form appear complete and reasonable, and if the certifying information is complete.

Manual checks on the data are also made. Each form is prescanned to determine that data were reported on the correct lines. The flow of gas through interstate pipelines is checked at the company level to ensure that each delivery from a State is matched with a corresponding receipt in an adjoining State.

After the data are keyed, computer edit procedures are performed. Edit programs verify the report year, State code, and arithmetic totals. Further tests are made to ensure that all necessary data elements are present and that the data are reasonable and internally consistent. The computerized edit system produces error listings with messages for each failed edit test. When problems occur, respondents are contacted by telephone and required to file amended forms with corrected data.

Other EIA Publications Referencing Form EIA-176

Data from Form EIA-176 are also published in the *Natural Gas Annual*.

Form EIA-895, "Monthly Quantity of Natural Gas Report"

Survey Design

In 1996, an annual schedule was added to the Form EIA-895 to replace the Form EIA-627. Data collection on the Form EIA-895 began in January 1995. This form was designed to replace the Interstate Oil and Gas Compact Commission (IOGCC) form, "Monthly Report of Natural Gas Production." In 1994, the IOGCC decided to discontinue collection of their form. All gas producing States are requested to report on the Form EIA-895; a voluntary report. Data are reported by State agencies. The form was designed to provide a standard reporting system, to the extent possible, for the natural gas data reported by the States. Data are not considered proprietary.

Beginning with 1980, natural gas production data previously obtained on an informal basis from State conservation agencies were collected on Form EIA-627. This form was designed by EIA to collect annual natural gas production data from the appropriate State agencies under a standard data reporting system within the limits imposed by the diversity of data collection systems of the various producing States. The form was redesigned in 1990 to collect monthly breakdowns of all annual data elements. Data are not considered proprietary. It was also designed to avoid duplication of effort in collecting production and value data by producing States and to avoid an unnecessary respondent burden on gas and oil well operators. In 1993, value and associated volume of marketed production by month was added to the EIA-627. In 1996, the Form EIA-627 was discontinued. The information is collected on an annual schedule on the Form EIA-895.

Survey Universe and Response Statistics

Form EIA-895 is mailed to energy or conservation agencies in all 33 natural gas producing States. All producing States participate voluntarily in the EIA-895 survey by filing the completed form or by responding to telephone contacts.

Reports on State production are due 20 days after the end of the report month. (In most cases, the data are not available to the States until after this time period.

Therefore, States are requested to send the report within 80 days after the end of the report month.) The annual schedule of the Form EIA-895 is due with the December data report.

Summary of Data Requirements

The Form EIA-895 monthly schedule consists of nine questions on one page, and requires volumetric information on gross production (gas and oil wells individually), gas used for repressuring, gas vented and flared, nonhydrocarbon gases removed, natural gas used as fuel on leases, marketed production, value based marketed production and the value in dollar amount of the marketed production.

Form EIA-895 annual schedule collects data on the monthly and annual production volume 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 leases; marketed production; the value of marketed production; and the number of producing gas wells.

Respondents are asked to report all volumes in thousand cubic feet at the State's standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

Routine Form EIA-895 Edit Checks

Each filing of Form EIA-895 is manually checked for reasonableness and mathematical accuracy. Information on the forms is compared to totals of monthly data reported. Volumes are converted, as necessary, to a standard 14.73 psia pressure base. Reasonableness of data is assessed by comparing reported data to the previous year's data. State agencies are contacted by telephone to correct errors. Amended filings or resubmissions are not a requirement, since participation in the survey is voluntary.

Other EIA Publications Referencing Form EIA-895

Data from Form EIA-895 are also published in the EIA publication, *Natural Gas Annual*.

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

Survey Design

The Form EIA-191, "Underground Natural Gas Storage Report," was revised effective January 1994. Among the changes from the form used from 1991 through 1993 are a distinction between a monthly and annual survey. Prior to 1991, data on the storage of natural gas were collected on a survey jointly implemented in 1975 by the Federal Power Commission (FPC), the Federal Energy Administration (FEA), and the Bureau of Mines (BOM) as the FPC-8/ FEA-G-318 system. The data received on both the FPC-8 and FEA-G-318 were computerized and aggregated by FPC. The form was previously revised in 1991 to include storage data by State, field, and reservoir.

At the beginning of 1979, the EIA assumed responsibility for the collection, processing, and publication of the data gathered in the survey. Form FEA-G-318 was renewed on July 1, 1979, as Form EIA-191 and the survey was retitled the FPC-8/EIA-191 Survey (Figure D4 shows the EIA-191). Form FPC-8 was renewed in December 1985 and the survey retitled FERC-8/EIA-191 Survey. The forms were not merged because of FERC's stated desire to maintain the separate identity of the FERC-8 for administrative reasons. In September 1995, the FERC discontinued the reporting requirements of Form FERC-8. FERC jurisdictional firms will continue to file Form EIA-191.

Survey Universe and Response Statistics

The 103 companies that operate underground facilities will file the Form EIA-191. Of these companies, 42 are subject to the jurisdiction of FERC and are required to report data on Form EIA-191.

The response rate as of the filing deadline is approximately 20 percent. Data from the remaining 80 percent of respondents are received in writing and/or by telephone within 3 to 4 days after the filing deadline. All data supplied by telephone are subsequently filed in writing, generally within 15 days of the filing deadline. The final response rate is 100 percent.

Summary of EIA-191 Data Reporting Requirements

The EIA-191 monthly schedule contains current month and prior month's 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. Prior month's data are required only when data are revised. Information on co-owners of storage fields has been eliminated. The annual schedule contains type of facility, storage field capacity, maximum deliverability and pipelines to which each field is connected. The annual schedule is filed with the January submission.

Collection of the survey is on a custody basis. Information requested must be provided within 20 days after the first 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 reflected in the prior month section of the monthly form. 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.

Routine Form EIA-191 Edit Checks

Data received on Form EIA-191 are entered into the survey processing system. The survey's five principal data elements (total, base, working gas in storage, injections, and withdrawals) receive a preliminary visual edit to eliminate and correct obvious errors or omissions. Respondents are required to refile reports containing any inconsistencies or errors.

Other EIA Publications Referencing Form EIA-191

The EIA publication *Monthly Energy Review* and *Winter Fuels Report* contain data from the EIA-191 survey.

"Quarterly Natural Gas Import and Export Sales and Price Report"

Survey Design

The collection of data covering natural gas imports and exports was begun in 1973 by the Federal Power Commission (FPC). On October 1977, FPC ceased to exist and its data collection functions were transferred to the Federal Energy Regulatory Commission (FERC) within the Department of Energy (DOE). From 1979 to 1994, the Energy Information Administration (EIA) has had the responsibility for collecting Form FPC-14, "Annual Report for Importers and Exporters of Natural

Gas." Data are not considered proprietary. The Form FPC-14 was discontinued in 1995.

Beginning in 1995, import and export data are 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.

Survey Universe and Response Statistics

All companies are required, as a condition of their authorizations to import or export natural gas, to file quarterly reports with the Office of Fossil Energy. These data are collected as part of its regulatory responsibilities. The data are reported at a monthly level of detail. Data reported on the Form FPC-14 represented physical movements of natural gas. Data collected by the Office of Fossil Energy are reported on an equity (sales) basis. For 1994 and earlier years, comparisons of the data from the two sources may show differences because reporting requirements were different.

Prior to 1995, the Form FPC-14 was filed annually by each organization or individual having authority to import and export natural gas regardless of whether any activity took place during the reporting year. Authorizations to import and export was originally granted by the FPC. In 1977, the authority to grant authorizations transferred to the Economic Regulatory Administration (ERA). It now resides with the Office of Fossil Energy, U.S. Department of Energy.

Routine Edit Checks

Respondents are required to certify the accuracy of all data reported. The data are checked for reasonableness and accuracy. If errors are found, the companies are required to file corrected data. The data are compared with data reported by the National Energy Board of Canada and are published quarterly. All natural gas volumes in this report are expressed at a pressure base of 14.73 pounds per square inch absolute and temperature of 60 degrees Fahrenheit, except as noted. All import and export prices are in U.S. dollars and, except for LNG exports, are those paid at the U.S. border. LNG export prices are those paid at the point of sale and delivery in Yokohama, Japan.

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

Survey Design

The original Form EIA-857 was approved for use in December 1984. Response to the Form EIA-857 is mandatory on a monthly basis. Data collected on the Form EIA-857 cover the 50 States and the District of Columbia and include both price and volume data. Data are considered proprietary.

Survey Universe and Response Statistics

A sample of 382 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 on a monthly basis. Initial response statistics on a monthly basis are as follows: responses received by due date, approximately 50 percent, and responses received after follow-up, 100 percent. Virtually all are received in time for incorporation in the current month's processing cycle. When a response is extremely late, and the company represents less than 25 percent of the natural gas volumes delivered by all sampled companies in the State, values are imputed as described in Appendix C. When the company's submission is eventually received, the submitted data are used for future processing and revisions.

The Form EIA-857 is a monthly sample survey of firms delivering natural gas to consumers. It provides data that 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. (Monthly deliveries and prices of natural gas to electric utilities are reported on the Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and the Form EIA-759, "Monthly Power Plant Report.") See Appendix C for a discussion of the sample design and estimation procedures.

Summary of Form EIA-857 Data Reporting Requirements

Data collected monthly on the Form EIA-857 on a State level include the volume and cost of purchased gas, the volume and cost of natural gas consumed by sector (residential, commercial, and industrial), and the average heat content of all gas consumed. Respondents file completed forms 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 to the nearest whole dollar.

Routine Form EIA-857 Edit Checks

A series of manual and computerized edit checks are used to screen the Form EIA-857. The edits performed include validity and analytical checks.

Appendix C

Statistical Considerations

The monthly sales (volume and price) and monthly deliveries (volume) 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." (See Appendix B for a description of this Form.) These estimations must be made from the reported data since the Form EIA-857 is a sample survey. A description of the sample design and the estimation procedures is given below.

Sample Design

The Form EIA-857 is a monthly sample survey of companies delivering natural gas to consumers. It includes inter- and intrastate companies, and producers, as well as 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 electric utilities are reported on the Form EIA-759, "Monthly Power Plant Report," and the Form FERC-423, "Monthly Report of Costs and Quality of Fuels for Electric Plants."

Sample Universe. The sample currently in use was selected from a universe of 1,538 companies. These companies were respondents to the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for reporting year 1995 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. The goal was a sample that would provide estimates of monthly natural gas consumption by the three consuming sectors within each State and the District of Columbia. A stratified sample using a single stage and systematic selection with probability

proportional to size was designed. The measure of size was the volume of natural gas physically delivered in the State to the three consuming sectors by the company in 1995. There were two strata—companies selected with certainty and companies selected under the systematic probability proportional to size design.

Initial calculations showed that a 25 percent sample of companies would yield reasonably accurate estimates. The sample was selected independently in each State, resulting in a national total of 387 respondent companies. Unlike previous years, no mergers or acquisitions were uncovered as a result of the initial mail-out. Therefore there was no need for either substitution of respondent companies or a reduction in the total number of respondents.

Certainty Stratum. Since estimates were needed for each of the 50 States and the District of Columbia, the strata were established independently within each State. In 16 States and the District of Columbia where sampling was not feasible due to small numbers of companies and/or small volumes of gas deliveries, all companies were selected. The 16 States were: Alaska, Connecticut, Delaware, Hawaii, Idaho, Maine, North Dakota, New Hampshire, New Jersey, Nevada, Oregon, Rhode Island, South Dakota, Utah, Vermont, and Washington.

For each of the remaining States, the total volumes of industrial sales and deliveries and of the combined residential/commercial sales and deliveries were determined. Companies with natural gas deliveries to the industrial sector or to the combined residential/commercial sector above a certain level were selected with certainty. Since a few large companies often account for most of the natural gas delivered within a State, this ensures those companies' inclusion in the sample. The formula for determining certainty was applied independently in the two consumer sectors—the industrial and the combined residential/commercial. These selected companies, together with the companies in the jurisdictions discussed where sampling was not feasible, formed the certainty stratum.

All companies with natural gas deliveries in sector j greater than the cut-off value (C_j) were included in the certainty stratum. The formula for C_j was:

$$C_j = \frac{X_j}{2n} \quad (1)$$

where:

C_j = cutoff value for consumer sector j ,

n = target sample size to be selected for the State, 25 percent of the companies in the State,

X_{ij} = the annual volume of natural gas deliveries by company i to customers in consumer sector j ,

X_i = the sum within State of annual gas volumes for company i ,

X_j = the sum within State of annual gas volumes in consumer sector j ,

$X_{..}$ = the sum within State of annual gas volumes in all consumer sectors.

Noncertainty Stratum. All other companies formed the noncertainty stratum. They were systematically sampled with probability proportional to size. The measure of size for each company was the total volume of gas sales to all consumer sectors (X_i). The number of companies to be selected from the noncertainty stratum was calculated for each State, with a minimum of 2.

The formula for selecting the number of noncertainty stratum companies was:

$$m = n \frac{X_2}{X_{..}} \quad (2)$$

where:

m = the sample size for the noncertainty stratum within a State,

X_2 = the sum within State of the X_i for all companies in the noncertainty stratum.

Companies were listed in ascending order according to their measure of size and then a cumulative measure of size in the stratum was calculated for each company. The cumulative measure of size was the sum of the measures of size for that company and all preceding companies on the list. An interval of width I for selecting the companies systematically was calculated using

$$(I = \frac{X_2}{m}).$$

A uniform random number R was selected between zero and I . The first sampled company was

the first company on the list to have a cumulative measure of size greater than R . The second company selected was the first company on the list to have a cumulative measure of size greater than $R + I$. $R + I$ was increased again by I to determine the third company to be selected. This procedure was repeated until the entire sample was drawn.

Subgroups. In eight States, the noncertainty stratum was divided into subgroups to ensure that gas in each consumer sector could be estimated. The systematic sample with probability proportional to size design described above was applied independently in each subgroup. The methods for determining the subgroup sample size and calculating the subgroup interval for sample selection were the same as the methods described above for the noncertainty stratum, except that X_2 was the sum within State of the X_i for only those companies in the subgroup.

These subgroups were defined only for the purpose of sample selection. They are:

California: companies handling only industrial gas and all other companies.

Iowa: companies handling industrial gas and companies delivering only to residential or commercial customers.

Louisiana: companies handling only industrial gas and all other companies, with the latter being further subdivided according to size. The larger group is comprised of all companies with total deliveries of at least 200 million cubic feet while the smaller group consists of companies with less than that volume of delivered gas (three subgroups).

Oklahoma: Companies delivering less than 500 million cubic feet of gas and those delivering more than that volume.

Texas: companies handling only residential/commercial gas, companies handling only industrial gas, and all other companies (three subgroups).

Estimation Procedures

Estimates of Volumes. A ratio estimator is applied to the volumes reported in each State by the sampled companies to estimate the total gas sales and deliveries for the State. Ratio estimators are calculated for each consumer sector—residential, commercial, and industrial—in each State where companies are sampled. The following annual data are taken from the most recent 1995 submissions of Form EIA-176:

The formula for calculating the ratio estimator (E_{vj}) for the volume of gas in consumer sector j is:

$$E_{vj} = \frac{Y_j}{Y'_j} \quad (3)$$

where:

Y_j = the sum within State of annual gas volumes in consumer sector j for all companies,

Y'_j = the sum within State of annual gas volumes in consumer sector j for those companies in the sample.

The ratio estimator is applied as follows:

$$V_j = y_j \times E_{vj} \quad (4)$$

where:

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

y_j = the sum within State of reported monthly gas volumes in consumer sector j .

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.

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

$$P_j = \frac{R_j}{V'_j}$$

where:

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

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

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

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

The monthly average prices of natural gas are based on sales data only. Volumes of gas delivered for the account of others to these consumer sectors are not included in the State or national average prices.

Table 25 shows the percent of the total State volume that represents volumes from natural gas sales to the commercial and industrial sectors. This table may be helpful in evaluating commercial and industrial price data. Virtually all natural gas deliveries to the residential sector represent onsystem sales volumes only.

See the section on consumer price calculations in this Appendix for further price information.

Estimation for Nonrespondents. A volume for each consumer category is imputed for companies that fail to respond. The imputation is based on the previous month's value reported by the non-responding company and the change from the previous month to the current month in volumes reported by other companies in the State. The imputed volumes are included in the State totals. To estimate prices for non-respondents, the unit price (dollars per thousand cubic feet) reported by the company in the previous month is used.

The formula for imputing volumes of gas sales for nonrespondents was:

$$F_t = F_{t-1} \times \frac{y_{jt}}{y_{jt-1}} \quad (5)$$

where:

F_t = imputed gas volume for current month t ,

F_{t-1} = gas volume for the company for the previous month,

y_{jt} = gas volume reported by companies in the State stratum for report month t ,

y_{jt-1} = gas volume in the previous month for companies in the State stratum that reported in month t .

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*, 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* 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 *Natural Gas Monthly*, 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:

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

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:

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

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 Utilities. Revisions to monthly electric utilities data 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 non-sampling 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. Standard errors are calculated based on statistical theory that refers to all possible samples of the same size and design.

The standard errors for monthly natural gas volume estimates by State are given in Table C1. Ninety-five percent of the time, the volume that would have been obtained from a complete enumeration will lie in the range between the estimated volume minus two standard errors and the estimated volume plus two standard errors.

The standard error of the natural gas volume estimate is the square root of the variance of the estimate. The formula for calculating the variance of the volume estimate is:

$$V(\hat{Y}) = \sum_{h=1}^H \left[N_h^2 \frac{(1 - \frac{n_h}{N_h})}{n_h(n_h - 1)} \left(\sum_{i=1}^{n_h} (y_i - Tx_i)^2 \right) \right] \quad (8)$$

where:

H = the total number of strata

N_h = the total number of companies in stratum h

n_h = the sample size in stratum h

y_i = the reported monthly volume for company i

x_i = the reported annual volume for company i

T = the ratio of the sum of the reported monthly volumes for sample companies to the sum of the reported annual volumes for the sample companies.

Table C-1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, June 1998

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	182	74	3,400	3,406	0.69	0.27	0.98
Alaska	0	0	0	0	—	—	—
Arizona	6	63	0	63	0.15	0.04	—
Arkansas	0	NA	0	NA	—	—	—
California	137	42	4,493	4,495	0.05	0.09	0.38
Colorado	694	612	NA	NA	NA	3.50	NA
Connecticut	0	0	0	0	—	—	—
Delaware	0	0	0	0	—	—	—
District of Columbia	0	0	0	0	—	—	—
Florida	92	215	1,218	1,241	1.29	0.07	0.25
Georgia	40	137	2,394	2,398	0.30	0.41	1.40
Hawaii	0	0	0	0	—	—	—
Idaho	0	0	0	0	—	—	—
Illinois	3,337	1,625	2,123	4,276	1.39	2.55	0.43
Indiana	NA	NA	NA	NA	NA	NA	NA
Iowa	98	458	132	487	0.24	0.17	0.06
Kansas	3,889	5,235	45,903	46,364	2.52	0.96	12.93
Kentucky	1,505	1,618	654	2,305	8.75	8.97	3.43
Louisiana	146	NA	4,185	NA	0.47	NA	0.03
Maine	NA	NA	NA	NA	NA	NA	NA
Maryland	5	14	76	77	0.01	0.01	NA
Massachusetts	NA	140	NA	NA	NA	0.25	NA
Michigan	0	0	0	0	—	—	—
Minnesota	269	124	1,523	1,552	0.04	0.05	0.33
Mississippi	NA	NA	NA	NA	NA	NA	NA
Missouri	354	199	658	773	0.18	0.21	2.56
Montana	10	12	0	15	0.02	0.02	—
Nebraska	25	20	127	131	0.24	0.18	0.08
Nevada	0	0	0	0	—	—	—
New Hampshire	0	NA	NA	NA	—	NA	NA
New Jersey	0	0	0	0	—	—	—
New Mexico	338	57	636	722	38.88	5.21	—
New York	NA	NA	NA	NA	NA	NA	NA
North Carolina	74	109	186	228	0.03	0.01	0.04
North Dakota	0	0	0	0	—	—	—
Ohio	338	318	784	911	0.25	0.16	2.64
Oklahoma	316	141	69	353	0.81	0.03	0.81
Oregon	0	0	0	0	—	—	—
Pennsylvania	323	100	1,590	1,626	1.01	0.65	0.11
Rhode Island	0	0	0	0	—	—	—
South Carolina	115	100	369	399	0.99	0.32	0.08
South Dakota	0	0	0	0	—	—	—
Tennessee	252	923	1,488	1,769	1.59	2.71	1.54
Texas	106	7,238	13,118	14,983	0.07	0.34	0.33
Utah	0	0	0	0	—	—	—
Vermont	0	0	0	0	—	—	—
Virginia	71	236	298	386	0.51	0.24	0.14
Washington	NA	NA	NA	NA	NA	NA	NA
West Virginia	NA	NA	NA	NA	NA	NA	NA
Wisconsin	443	1,051	406	1,211	0.32	0.47	0.12
Wyoming	13	63	42	77	0.22	NA	1.08
Total	5,501	9,767	48,591	49,867	0.33	0.33	0.52

NA = Not Available.

— = Not Applicable.

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

Appendix D

Natural Gas Reports and Feature Articles

Reports Dealing Principally with Natural Gas and/or Natural Gas Liquids

- *Natural Gas Annual 1995*, DOE/EIA-0131(95), November 1996.
- *Natural Gas Annual 1993 Supplement: Company Profiles*, DOE/EIA-0131(93/S), February 1995.
- *Natural Gas 1996 Issues and Trends*, DOE 0560(96), December 1996.

Other Reports Covering Natural Gas, Natural Gas Liquids, and Other Energy Sources

- *Monthly Energy Review*, DOE/EIA-0035. Published monthly. Provides national aggregate data for natural gas, natural gas liquids, and other energy sources.
- *Short-Term Energy Outlook*, DOE/EIA-0202. Published quarterly. Provides forecasts for next six quarters for natural gas and other energy sources.
- *Natural Gas 1995: Issues and Trends*, DOE/EIA-0560(95), November 1995.
- *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves - 1995 Annual Report*, DOE/EIA-0216(95)/Advance Summary, October 1996.
- *Annual Energy Review 1995*, DOE/ EIA-0384(95), July 1996. Published annually.
- *Annual Report to Congress 1995* DOE/ EIA-01733(95), July 1996. Published annually.
- *Annual Energy Outlook 1996*, DOE/ EIA-0383(96), January 1996. Published annually.

Selected One-Time Natural Gas and Related Reports

- *The Value of Underground Storage in Today's Natural Gas Industry*, DOE/EIA-0591, March 1995.
- *Natural Gas Productive Capacity for the Lower 48 States, 1980 through 1995*, DOE/EIA-0542(95), July 1994.
- *Largest U.S. Oil and Gas Fields*, DOE/EIA-TR-0567, August 1993.
- *Energy Policy Act Transportation Rate Study*, DOE/EIA-0571, October 1993.
- *Energy Policy Act Transportation Study: Interim Report of Natural Gas Flows and Rates*, DOE/EIA-0602, October 1995.

Selected and Recurring Natural Gas and Related Data Reference Reports

- *Directory of Energy Data Collection Forms*, DOE/EIA-0249(95), January 1996.
- *Oil and Gas Field Code Master List, 1995*, EIA-0370(95), December 1996.

Feature Articles

June 1996

Natural Gas Industry Restructuring and Data Collection

(Discusses how restructuring of the natural gas industry has impacted the natural gas data collection efforts.)

July 1996

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

November 1996

U.S. Natural Gas Imports and Exports - 1995

(Contains final 1995 data on all U.S. imports and exports of natural gas.)

December 1996

Crosswell Seismology -- A View from Aside

(Discusses crosswell seismology and its geologic and economic implications for the domestic oil and gas industry.)

May 1997

Restructuring Energy Industries: Lessons from Natural Gas

(Compares and contrasts the natural gas and electric power industries.)

July 1997

Intricate Puzzle of Oil and Gas "Reserves Growth"

(Discusses the factors that affect ultimate recovery estimates of a field or reservoir.)

August 1997

Natural gas Residential Pricing Developments During the 1996-97 Winter

(Discusses key factors that affect pricing patterns, highlights the effects of weather, utilization patterns of natural gas storage, and pricing mechanisms used in natural gas markets.)

December 1997

Recent Trends in Natural Gas Spot Prices

(Focuses primarily on conditions and developments in the East Consuming Region and their connection to prices at the Henry Hub in the Producing Region.)

March 1998

EIA Corrects Errors in EIA's Drilling Activity Estimates Series

(Discusses and corrects errors in EIA's monthly and annual estimates of oil and gas drilling activity.)

Special Focuses

January 1997

Natural Gas Productive Capacity

(Analyzes monthly natural gas wellhead productive capacity in the lower 48 States from 1985 and 1996 and project this capacity for 1996 and 1997.)

Outlook for Natural Gas Through 2015

(Presents an outlook for natural gas through 2015.)

August 1997

Worldwide Natural Gas Supply and Demand And the Outlook For Global LNG Trade

(Focuses on natural gas into the next century with emphasis on world natural gas supply and demand to 2015.)

September 1997

Advance Summary: U.S. Crude Oil, Natural Gas, and Natural gas Liquids Reserves, 1996 Annual Report - Advance Summary

(Focuses on proved reserves of domestic crude oil, natural gas, and natural gas liquids.)

May 1998

Deliverability on the Interstate Natural Gas Pipeline System

(Examines the capability of the interstate pipeline network to move gas to various U.S. markets and discusses changes occurring since 1990.)

Special Reports

March 1997

Natural Gas Analysis and Geographic Information Systems

(Explores how geographic information system techniques and methodologies are being used by the Energy Information Administration.)

April 1997

Natural Gas Pipeline and System Expansions

(Examines recent expansions to the North American natural gas

Natural Gas 1996: Highlights

(Reviews data for 1996 based on Energy Information Administration surveys.) pipeline network.)

July 1997

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

August 1997

U.S. Natural Gas Imports and Exports - 1996

(Contains final 1996 data on all U.S. imports and exports of natural gas.)

September 1997

U.S. Underground Storage of Natural Gas in 1997: Existing and Proposed

(Examines recent and proposed expansions of underground natural gas storage capacity and deliverability in the United States as of September 1, 1997.)

October 1997

Comparison of Natural Gas Storage Estimates from the EIA and AGA

(Compares EIA and AGA estimates from January 1994 through July 1997.)

April 1998

Natural Gas 1997: A Preliminary Summary

(Reviews data for 1997 based on Energy Information Administration surveys.)

July 1998

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

August 1998

U.S. Natural Gas Imports and Exports - 1997

(Contains final 1997 data on all U.S. imports and exports of natural gas.)

Appendix E

Technical Contacts

Section	Tables		Principal Data Sources	Technical Contact
Summary Statistics: Natural Gas Production	1, 2, 3	Monthly: Annual:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202) 586-6119
		Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Extraction Loss	1	Monthly: Annual:	EIA computations Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"	Margo Natof (202) 586-6303
Supplemental Gaseous Fuels	2	Monthly: Annual:	EIA computations Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"	Margo Natof (202) 586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Import and Exports"	Linda Cook (202) 586-6306
Price: City Gate, Residential, Commercial, and Industrial	4	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-895, "Monthly Quantity and Value of Natural Gas Report"	Sylvia Norris (202) 586-6106
Electric Utility	4	Monthly:	Form FPC-423, "Cost and Quality of Fuels for Electric Power Plants"	Roy Kass (202) 586-4790
Summary of Natural Gas Imports and Exports	5,6	Monthly:	Quarterly Natural Gas Import and Export Sales and Price Report	Linda Cook (202) 586-6306
Producer Related Activities: Natural Gas Production	7,8	Monthly:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202) 586-6119

Underground Storage:	9, 10, 11	Monthly:	Forms FERC-8 and EIA-191,	Carol Jones
	12, 13, 14		"Underground Gas Storage Report"	(202) 586-6168
Distribution and Consumption:				
Deliveries to:				
Residential,	15	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Commercial,	16		Natural Gas Purchases and Deliveries	(202) 586-4790
Industrial,	17		to Consumers"	
Electric Utility,	18		Form FERC-423, "Cost and Quality	
All Consumers	19		of Fuels for Electric Power Plants"	
Average Price to:				
City Gate,	20	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Residential,	21		Natural Gas Purchases and Deliveries	(202) 586-4790
Commercial,	22		to Consumers"	
Industrial,	23		Form FERC-423, "Cost and Quality	
Electric Utility	24		of Fuels for Electric Power Plants"	
Onsystem Sales	25	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
			Natural Gas Purchases and Deliveries	(202) 586-4790
			to Consumers"	
Heating Degree Days	26	Seasonal:	National Oceanic and Atmospheric	Patricia Wells
			Administration	(202) 586-6077
Highlights				
				Mary Carlson
				(202) 586-4749

Natural Gas Electronic Products

In addition to printed publications, the Energy Information Administration distributes information concerning the natural gas industry in a variety of electronic formats through several media. Two main types of products are available electronically: *viewable documents* that may be read or printed; and *post-processable files* that may be directly used as input to a computer application without additional keying and checking of data.

Viewable documents represent complete or selected sections of publications including text, tables and graphs. They may be as specific as single tables or as general as an entire publication. Post-processable documents on the other hand are either macro-level rep-

resentations of information in published tables or micro-level respondent information representing responses on a specific nonconfidential survey.

The media used to distribute these electronic publications include: (1) The Energy Information Administration's Internet site (<http://www.eia.doe.gov> or <ftp://ftp.eia.doe.gov>); (2) Dial-in access through the Energy Information Administration's EPUB electronic bulletin board or through the Economic Bulletin Board of the Department of Commerce and the COGIS system; (3) The Energy Information Administration's quarterly CD-ROM(Info-Disk); (4) The Energy Information Administration's Fax on Demand System; and (5) diskettes.

	Internet	Dial-In	InfoDisk	Fax	Diskette
ANNUAL PUBLICATIONS					
Natural Gas Annual, Volume 1, 1994 Provides information on supply, and disposition of natural gas in the United States. Information is provided nationally, regionally, and by State for 1994.	V P		V P		P
Natural Gas Annual, Volume 2, 1994 Contains historical information about supply and disposition of natural gas at the national, regional, and State level as well as prices at selected points in the flow of gas from wellhead to burnertip.	P		P		P
Natural Gas 1995: Issues and Trends Addresses current issues affecting the natural gas industry and markets, and analyzes trends in the most recent natural gas data.	V		V		
Natural Gas 1994: Issues and Trends Provides an overview of the natural gas industry in 1993 and early 1994, focusing on the overall ability to deliver gas under the new regulatory mandates of the Federal Energy Regulatory Commission's Order 636.	V		V		
Oil and Gas Products List 1994-1995 Brief descriptions of the various information products prepared by the Office of Oil and Gas.	V		V		
U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves Annual Report 1994 1994 national and State estimates of reserves, reserve changes, and production, plus industry highlights.	V		V		
MONTHLY PUBLICATIONS					
Natural Gas Monthly, from September 1995 forward. Entire Publication in viewable format	V		V		

V=Viewable

P=Post-Processable

	Internet	Dial-In	InfoDisk	Fax	Diskette
OTHER PUBLICATIONS					
Natural Gas 1995: Preliminary Highlights This Special Focus, which was featured in the April 1996 issue of the <i>Natural Gas Monthly</i> , presents events that affected the natural gas industry during 1995.	V	P		V	
Energy Policy Act Transportation Study: Interim Report on Natural Gas Flow and Rates (EPACT) Analysis of natural gas transportation rates and distribution patterns for the period from 1988 through 1994.	V		V		
Oil Production Capacity Expansion Cost for the Persian Gulf Quantifies the cost of expanding oil production capacity for the Persian Gulf based on geologic plays and fields rather than country-level economics. Development costs and volumes are estimated for the next 15 years.	V		V		
Costs and Indices for Domestic Oil and Gas Field Equipment and Production Operations 1990-1993 Cost of equipment and operation of oil and gas wells in the lower 48 States.	V		V		
Drilling Sideways- A Review of Horizontal Well Technology and the Domestic Application April 1993 report presenting salient aspects of current and near-future horizontal drilling and completion technology.	V		V		
International Oil and Gas Exploration and Development Compilation of country-level data and assessment of regional trends relating to upstream aspects of global oil and gas supply.	V		V		
Natural Gas Productive Capacity for the Lower 48 States 1984-1996 Analysis of monthly natural gas wellhead productive capacity.	V		V		
Natural Gas Productive Capacity for the Lower 48 States 1980-1995 Analysis of monthly natural gas wellhead productive capacity.	V		V		
Oil and Gas Field Code Master List Comprehensive listing of U.S. oil and gas field names as of November 1995.	V		V		
Oil and Gas Resources of the Fergana Basin (Uzbekistan, Tadjikistan, and Kyrgyzstan) Reservoir level assessments of oil and gas ultimate recovery in the former Soviet Union area.	V		V		
The Value of Underground Storage in Today's Natural Gas Industry Explores the significant and changing role of storage in the industry.	V		V		
U.S. Oil and Gas Development in the Early 1990's Analyses of the growing prominence of smaller energy companies in U.S. oil and gas production	V		V		
ANNUAL DATA					
Natural Gas Supply and Disposition, by State 1994	V P	V P		V	

V=Viewable

P=Post-Processable

	Internet	Dial-In	InfoDisk	Fax	Diskette
Natural Gas Summary, United States by Year 1990-1994	V P	V P		V	
1994 Natural Gas Annual Volume 1 data Self-extracting file containing data (in comma-delimited format) that appear in the tables in Volume I of the 1994 <i>Natural Gas Annual</i> .	P		P		P
1994 Natural Gas Annual Volume 2 data Self-extracting file containing historical information (in comma-delimited format) found in the tables in Volume II of the 1994 <i>Natural Gas Annual</i> . Annual historical data at the national level are presented for 1930-1994. Annual information by State and region is presented for 1967-1994.	P		P		P
1993 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" for 1993.	P				P
1994 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" for 1994.	P				P
Data archive of historical reserves estimates for U.S. Crude Oil, Natural Gas, and Natural Gas Liquids. National, State, and State subregion data published in the reserves balance tables of U.S. <i>Crude Oil, Natural Gas, and Natural Gas Liquids Reserves</i> from 1977 forward.	P				P
MONTHLY DATA					
Natural Gas Production, United States by Month 1989-forward	P	P		V	
Natural Gas Supply and Disposition, 1989-forward	P	P		V	
Natural Gas Imports and Exports 1989-forward	P	P		V	
Natural Gas Underground Storage: United States Total by Month 1989-forward	P	P		V	
Natural Gas Prices: United States Total by Month 1989-forward	P	P		V	
Natural Gas Consumption by Sector: United States Total by Month, 1989-forward	P	P		V	
SELF-EXTRACTING COMPRESSED DATA FILE ARCHIVES					
Natural Gas Consumption and Prices, for most recent 2-3 years	P	P			
Natural Gas Consumption and Prices, for 1984-1992	P	P			
OTHER REPORTS					
Natural Gas Weekly Market Update Analysis of current price, supply and storage data along with a two week snapshot of the weather in four distinct metropolitan areas.	V			V	

V=Viewable

P=Post-Processable

Glossary

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 quantities lost or to the effects of data reporting 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 underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

British Thermal Unit (Btu): The heat required to raise the temperature of one pound of water by one degree Fahrenheit at or near 39.2 degrees Fahrenheit.

City-gate: 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 organizations such as hotels, restaurants, retail stores, laundries, and other service enterprises, and gas used by local, State, and Federal agencies engaged in nonmanufacturing activities.

Depletion: The loss in service value incurred in connection with the exhaustion of the natural gas reserves in the course of service.

Depreciation: The loss in service value not restored by current maintenance, incurred in connection with the consumption or respective retirement of a gas plant in the course of service from causes that are known to be in current operation and against which the utility is not protected by insurance; for example, wear and tear, decay, obsolescence, changes in demand and requirements of public authorities, and the exhaustion of natural resources.

Dry Natural Gas Production: Marketed production less extraction loss.

Electric Utility Consumption: Gas used as fuel in electric utility plants.

Exports: Natural gas deliveries out of the continental United States and Alaska to foreign countries.

Extraction Loss: The reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

Flared: The volume of gas burned in flares on the base site or at gas processing plants.

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.

Imports: Natural gas received in the Continental United States (including Alaska) from a foreign country.

Independent Producers: Any person who is engaged in the production or gathering of natural gas and who sells natural gas in interstate commerce for resale but who is not engaged in the transportation of natural gas (other than gathering) by pipeline in interstate commerce.

Industrial Consumption: Natural gas used by manufacturing and mining establishments for heat, power, and chemical feedstock.

Interstate Companies: Natural gas pipeline companies subject to FERC jurisdiction.

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.

Intrastate Companies: Companies not subject to FERC jurisdiction.

Lease and Plant Fuel: Natural gas used in well, field, lease operations and as fuel in natural gas processing plants.

Liquefied Natural Gas (LNG): Natural gas that has been liquefied by reducing its temperature to minus 260 degrees Fahrenheit at atmospheric pressure.

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. See Explanatory Note 1 for discussion of coverage of data concerning nonhydrocarbon gases removed.

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 mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or solution with oil in natural underground reservoirs at reservoir conditions.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

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: The volume of gas injected or otherwise added to underground natural gas or liquefied natural gas storage during the applicable reporting period.

Storage Withdrawals: Total volume of gas withdrawn from underground storage or liquefied natural gas storage during the applicable reporting period.

Supplemental Gaseous Fuels Supplies: Synthetic natural gas, propane-air, refinery gas, biomass gas, air injected for stabilization of heating content, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): A manufactured product chemically similar in most respects to natural gas, that results from the conversion or reforming of petroleum hydrocarbons and may easily be substituted for or interchanged with pipeline quality natural gas.

Therm: One-hundred thousand British thermal units.

Underground Gas Storage Reservoir Capacity: Interstate company reservoir capacities are those certified by FERC. Independent producer and intrastate company reservoir capacities are reported as developed capacity.

Vented Gas: Gas released into the air on the base site or at processing plants.

Wellhead Price: Represents the wellhead sales price, including charges for natural gas plant liquids subsequently removed from the gas, gathering and compression charges, and State production, severance, and/or similar charges.

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.