DOE/EIA-0130(98/10)
Distribution Category/UC-950

Natural Gas Monthly
October 1998

Energy Information Administration
Office of Oil and Gas
U.S. Department of Energy
Washington, DC 20585

This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should be attributed to the Energy Information Administration and should not be construed as advocating or reflecting any policy position of the Department of Energy or any other organization.

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

Contents

	Page
Highlights	1
Appendices	
A. Explanatory Notes	73
B. Data Sources	81
C. Statistical Considerations	87
D. Natural Gas Reports and Feature Articles	93
E. Technical Contacts	97
F. Natural Gas Electronic Products	99
Glossary	103

Tables

	Page
1. Summary of Natural Gas Production in the United States, 1992-1998	7
2. Supply and Disposition of Dry Natural Gas in the United States, 1992-1998	8
3. Natural Gas Consumption in the United States, 1992-1998	10
4. Selected National Average Natural Gas Prices, 1992-1998	12
5. U.S. Natural Gas Imports, by Country, 1992-1998	14
6. U.S. Natural Gas Exports, by Country, 1992-1998	15
7. Marketed Production of Natural Gas, by State, 1992-1998	16
8. Gross Withdrawals and Marketed Production of Natural Gas by State, June 1998	19
9. Underground Natural Gas Storage - All Operators, 1992-1998	20
10. Underground Natural Gas Storage - by Season, 1995-1998	22
11. Underground Natural Gas Storage - Salt Cavern Storage Fields, 1996-1998	23
12. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 1996-1998	24
13. Net Withdrawals from Underground Storage, by State, 1996-1998	25
14. Activities of Underground Natural Gas Storage Operators, by State, August 1998	29
15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998	30
16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998	34
17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998	38
18. Natural Gas Deliveries to Electric Utility Consumers, by State, 1996-1998	42
19. Natural Gas Deliveries to All Consumers, by State, 1996-1998	46
20. Average City Gate Price, by State, 1996-1998	50
21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1998	53
22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1998	56
23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1998	59
24. Average Price of Natural Gas Delivered to Electric Utility Consumers, by State, 1996-1998	62

25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 65
A1. Methodology for Reporting Initial Monthly Natural Gas Supply and Disposition Data 73
C1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, July 1998 91

Illustrations

Page

1. Production and Consumption of Natural Gas in the United States, 1995-1999 9
2. Natural Gas Deliveries to Consumers in the United States, 1994-1998 11
3. Average Price of Natural Gas Delivered to Consumers in the United States, 1994-1998 13
4. Average Price of Natural Gas in the United States, 1994-1998 13
5. Underground Natural Gas Storage in the United States, 1995-1998 21
6. Percentage of Total Deliveries Represented by Onsystem Sales, 1994-1998 71

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 at the national level extend through October 1998 for many data series.

Highlights of the data contained in this issue are:

- The amount of working gas in underground storage facilities at the beginning of the 1998-99 heating season[1] is estimated to exceed 3 trillion cubic feet for the first time since the end of October 1994.
- Cumulatively through October 1998, domestic natural gas production is estimated to be 0.6 percent above the level for the same period in 1997, and cumulative end-use consumption is 2 percent below that of the previous 2 years.
- During 1998, monthly average natural gas wellhead prices have remained below $2.00 per thousand cubic feet through July. The highest estimate has been $1.89 per thousand cubic feet, reached in both April and July.

Supply

Ample supplies and lower consumption have enabled the natural gas industry to exceed 3,000 billion cubic feet of working gas in underground storage facilities at the beginning of the heating season for the first time in 4 years, while monthly wellhead prices have remained below $2.00 per thousand cubic feet from January through July 1998. Cumulatively for January through October 1998, dry natural gas production is estimated to be 0.6 percent above that of 1997 for the same period (Figure HI1). The most recent estimate of monthly production is 1,591 billion cubic feet or 51.3 billion cubic feet per day in October 1998 (Table 1). This daily rate is equal to that of October 1997 and is 1 percent lower than in September 1998.

Cumulatively for January through October 1998, net natural gas imports are estimated to be 2,445 billion cubic feet, 5 percent higher than last year's level. Most of these imports come via pipeline from Canada. Net imports for October 1998 are 253 billion cubic feet or 8.2 billion cubic feet per day, 6 percent higher than the daily rate in October 1997 (Table 2).

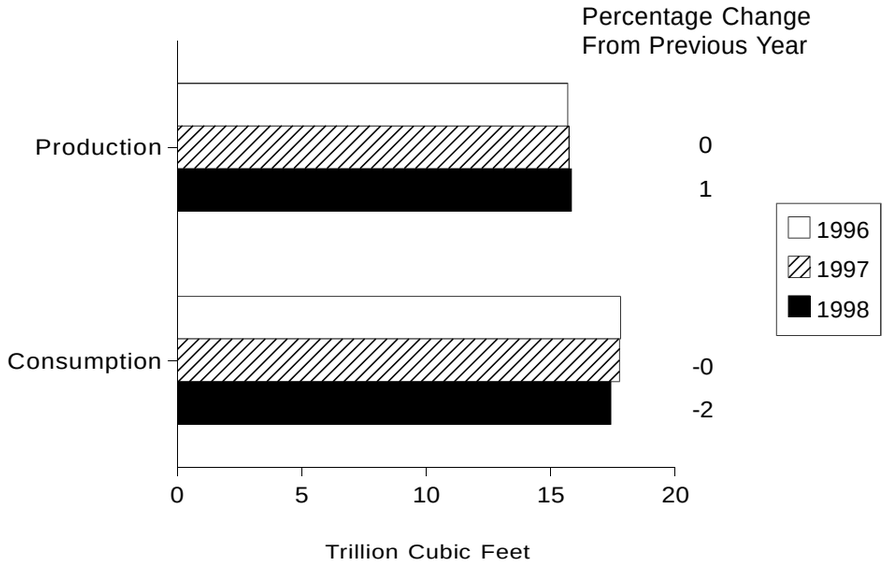
Working gas in storage ended the past heating season (March 31, 1998) at 1,184 billion cubic feet, 19 percent higher than the year earlier level (Figure HI2). Strong net injections during April 1998, of 198 billion cubic feet, brought working gas to a level that was 31 percent higher than a year earlier by the end of the month. Throughout the rest of the 1998 refill season, the relative "surplus" in working gas between 1998 and 1997 declined, but by the end of October 1998, an estimated 3,121 billion cubic feet of working gas is in storage, 8 percent more than at the end of October 1997. The level of working gas last exceeded 3,000 billion cubic feet at the beginning of the heating season when it reached 3,075 billion cubic feet at the end of October 1994.

End-Use Consumption

Cumulative end-use natural gas consumption for January through October 1998 is 2 percent below that of both 1997 and 1996 for the same period. The largest decline in consumption between 1997 and 1998, in both absolute and percentage terms, has occurred in the residential sector, reflecting the generally warmer temperatures experienced in January and February 1998. Cumulative residential natural gas consumption is estimated to be

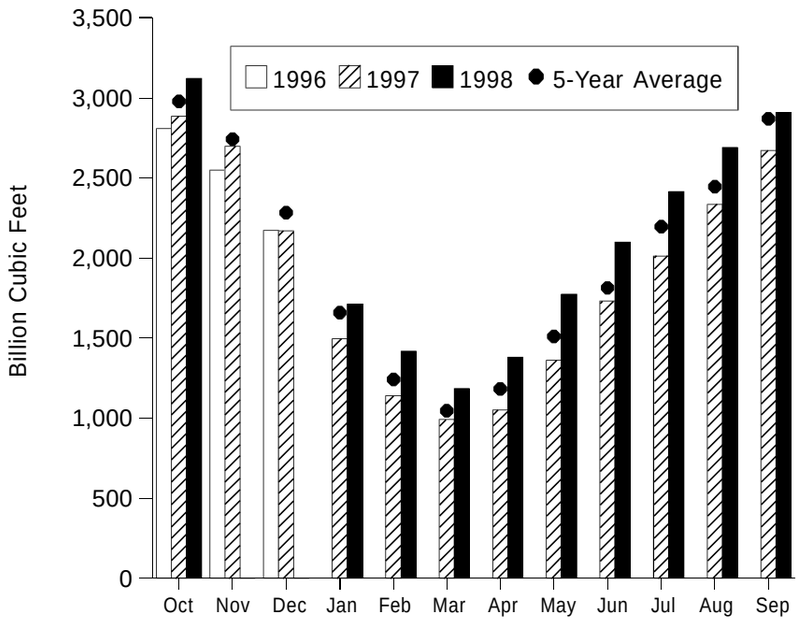
[1]The heating season is November 1 through March 31 of the next year. The storage refill season is from April 1 through October 31. The most recent data on working gas are for October 31, 1998.

Figure HI1. Natural Gas Production and Consumption, January-October, 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.

3,463 billion cubic feet, 320 billion cubic feet below that for the same period in 1997, a decline of 8 percent (Figure HI3).

Residential consumption of natural gas is estimated to be 218 billion cubic feet in October 1998, 7 percent below that of October 1997 (Table 3). In the commercial sector, the October 1998 estimate of natural gas consumption is 185 billion cubic feet, 5 percent lower than in October 1997. In the industrial sector, natural gas consumption is estimated to have increased in October 1998 compared with October 1997. The October 1998 estimate is 736 billion cubic feet, 5 percent higher than a year ago. However, cumulatively through October, both commercial and industrial natural gas consumption are estimated to be below the level of 1997, by 6 and 2 percent, respectively.

Estimates of natural gas consumption by electric utilities are available through July 1998, when it is estimated that 449 billion cubic feet was consumed. This is 5 percent higher than in July 1997. Cumulatively, for January through July 1998, the electric utility sector consumed an estimated 1,810 billion cubic feet of natural gas, 12 percent more than in 1997 for the same period. In contrast, cumulative natural gas consumption in the other end-use sectors through July was from 3 to 7 percent below that of 1997. The increase in the electric utility sector was driven largely by utility use of natural gas for peak air-conditioning demand as extremely high temperatures lingered in the Southwest during the summer, particularly in Texas. Natural gas consumption by electric utilities in Texas accounted for 30 to 42 percent of the national increase in consumption seen in this sector for May, June, and July 1998.

Prices

Monthly natural gas wellhead prices have been much more stable during 1998 than in either of the past 2 years. The low and high price estimates thus far in 1998 are $1.71 per thousand cubic feet in June and $1.89, reached in both April and July (Table 4). This is a range of only $0.18 per thousand cubic feet compared with the ranges of $1.81 and $0.36 over the January-through-July periods of 1997 and 1996, respectively. The July 1998 wellhead estimate is 11 percent higher than that of June 1998. This rise occurred, in part, because severely high temperatures in the Southwest spread to most areas east of the Rockies during the month.[2]

Cumulatively for January through July 1998, end-use prices[3] are estimated to be lower than in 1997, but residential, commercial, and industrial prices are estimated to have increased between June and July 1998. The residential price of natural gas is estimated to be $8.99 per thousand cubic feet in July 1998, 7 percent higher than in June 1998, and the commercial price is estimated to be $5.63, 2 percent higher than in June 1998. Cumulatively through July, the average residential and commercial prices are estimated to be 2 and 5 percent lower than in 1997, respectively (Figure HI4). The price paid for natural gas by industrial users in July 1998 is estimated to be $2.99 per thousand cubic feet, 1 percent higher than in June 1998, but 2 percent lower than in July 1997. Cumulatively through July 1998, the average industrial price is estimated to be 7 percent lower than in 1997.

The average price of natural gas paid by electric utilities is estimated to be $2.40 per thousand cubic feet in June 1998, 2 percent lower than in May 1998 and 7 percent lower than in June 1997. Cumulatively for January through June 1998, the electric utility price is estimated to be 9 percent below that of 1997.

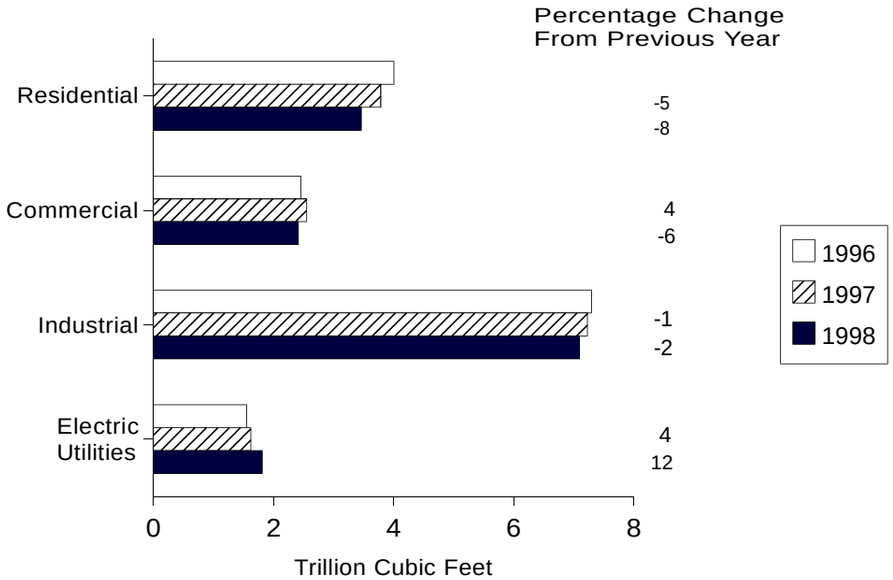
Recent data on natural gas futures prices reflect the abundant supply situation during October 1998, the last month of the 1998 storage refill season. Threats to natural gas production in the Gulf of Mexico from hurricane "Georges" and outages at two gas-processing plants in Louisiana caused by subsequent flooding[4] helped push both daily spot and nearby month futures prices at the Henry Hub over $2.00 per million Btu beginning in mid-September 1998. The futures settlement price climbed sharply to $2.432 per million Btu on October 2, but then fell by 16 percent to $2.041 on October 14, as the industry recovered from the effects of the hurricane and storage levels remained robust (Figure HI5). For the first time all year, the average daily spot price fell significantly below the futures settlement price during October. On October 23, 1998, the futures price settled at $2.164 per million Btu (the November contract closes October 28) while the average spot price was $1.85. Both price series have been well below those of 1997 in recent months. But during 1997, high temperatures and severe problems with the delivery of coal to electric utilities in Texas helped to spur an unusual increase in natural gas prices in the late summer. Prices later collapsed in November 1997.

[2]Energy Information Administration, *Natural Gas Weekly Market Update*, (June 29, 1998), http://www.eia.doe.gov.

[3]End-use prices in the residential, commercial, and industrial sectors are for onsystem gas sales only. While monthly onsystem sales are nearly 100 percent of residential deliveries, in 1998 they have been from 51 to 72 percent of commercial deliveries and only 13 to 17 percent of industrial deliveries (Table 4).

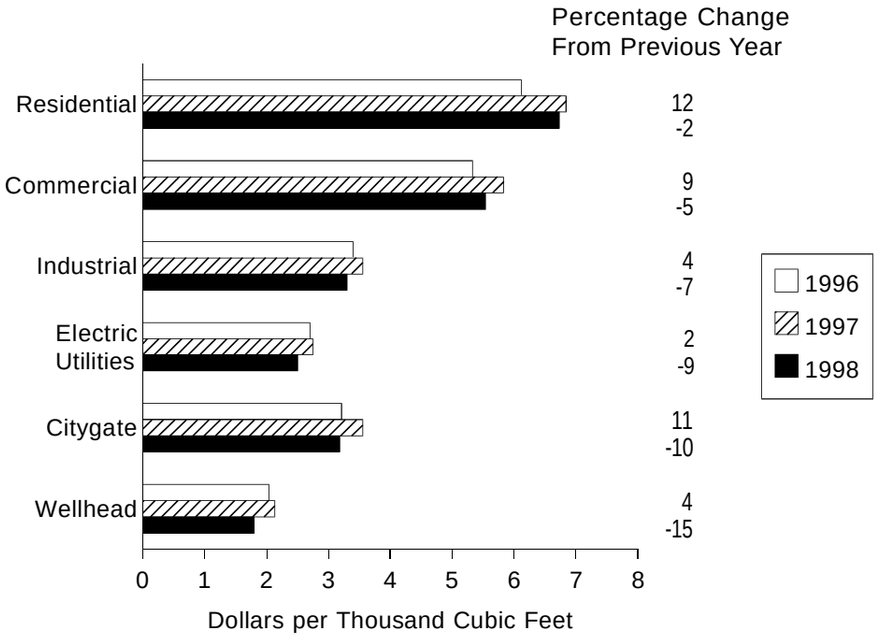
[4]Energy Information Administration, *Natural Gas Weekly Market Update*, (October 5, 1998), http://www.eia.doe.gov.

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



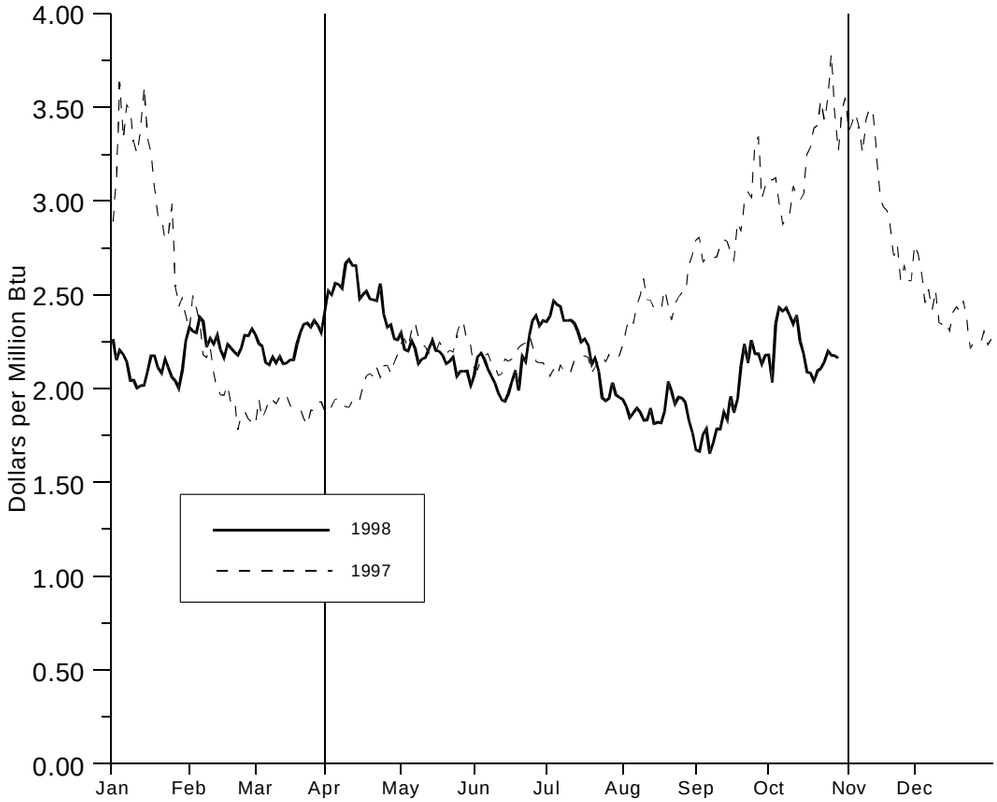
Note: The reporting of electric utility deliveries is 3 months behind the reporting of other deliveries.
Source: Table 3.

Figure HI4. Average Delivered and Wellhead Natural Gas Prices, January-July 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.

Figure HI5. 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	[E]2,097	[E]320	[E]45	[E]22	[E]1,710	[E]83	[E]1,627
April	[E]1,986	[E]285	[E]43	[E]21	[E]1,636	[E]79	[E]1,557
May	[RE]2,011	[RE]261	[E]42	[RE]20	[RE]1,687	[RE]82	[RE]1,605
June	[RE]1,974	[RE]270	[RE]43	[RE]21	[RE]1,639	[E]79	[RE]1,560
July	[RE]2,037	[RE]278	[E]44	[E]21	[E]1,693	[E]82	[E]1,611
August	[E]2,021	[E]272	[E]44	[E]21	[E]1,685	[E]82	[E]1,603
September(STIFS)	NA	NA	NA	NA	[E]1,640	[E]80	[E]1,561
October(STIFS)	NA	NA	NA	NA	[E]1,673	[E]81	[E]1,591
1998 YTD	NA	NA	NA	NA	[E]16,641	[E]807	[E]15,834
1997 YTD	[E]20,210	[E]3,043	[E]416	[E]213	[E]16,538	[E]802	[E]15,736
1996 YTD	20,035	2,904	425	226	16,479	799	15,680

[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	1,465
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	[R]184	[R]2,259
March	[E]1,628	[E]10	241	155	74	2,108
April	[E]1,547	[E]9	224	-58	[R]73	[R]1,795
May	[E]1,610	[E]9	232	-321	[R]69	[R]1,599
June	[E]1,541	[E]7	223	-364	50	[R]1,457
July	[E]1,593	[E]8	225	-281	[R]-5	[R]1,540
August	[E]1,582	[E]9	227	-322	[R]22	[R]1,518
September	[E]1,546	[E]7	226	-336	[R]-3	[R]1,442
October	[E]1,589	[E]9	239	-211	-93	1,533
November	[E]1,574	[E]11	259	189	[R]-145	[R]1,888
December	[E]1,621	[E]12	246	533	-97	2,316
Total	[E]18,930	[E]116	2,837	27	[R]60	[R]21,970
1998						
January	[E]1,625	[E]12	267	466	[R]24	[R]2,394
February	[E]1,494	[E]10	237	299	[R]59	[R]2,099
March	[E]1,627	[E]11	244	241	[R]0	[R]2,123
April	[E]1,557	[E]9	[R]235	-198	[R]98	1,701
May	[RE]1,605	[E]8	[R]240	-393	[R]49	[R]1,510
June	[RE]1,560	[E]7	[R]236	-323	[R]-14	1,466
July	[E]1,611	[E]9	[RE]247	-314	[R]9	1,566
August	[E]1,603	[E]9	[E]255	-283	[E]-32	[R]1,551
September(STIFS)	[E]1,561	[E]9	[E]231	[RE]-215	[RE]-113	[RE]1,473
October(STIFS)	[E]1,591	[E]10	[E]253	[E]-211	[E]-112	[E]1,531
1998 YTD	[E]15,834	[E]94	[E]2,445	[E]-931	[E]-32	[E]17,414
1997 YTD	[E]15,736	[E]93	2,332	-696	302	17,766
1996 YTD	15,680	89	2,288	-657	403	17,803

[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.

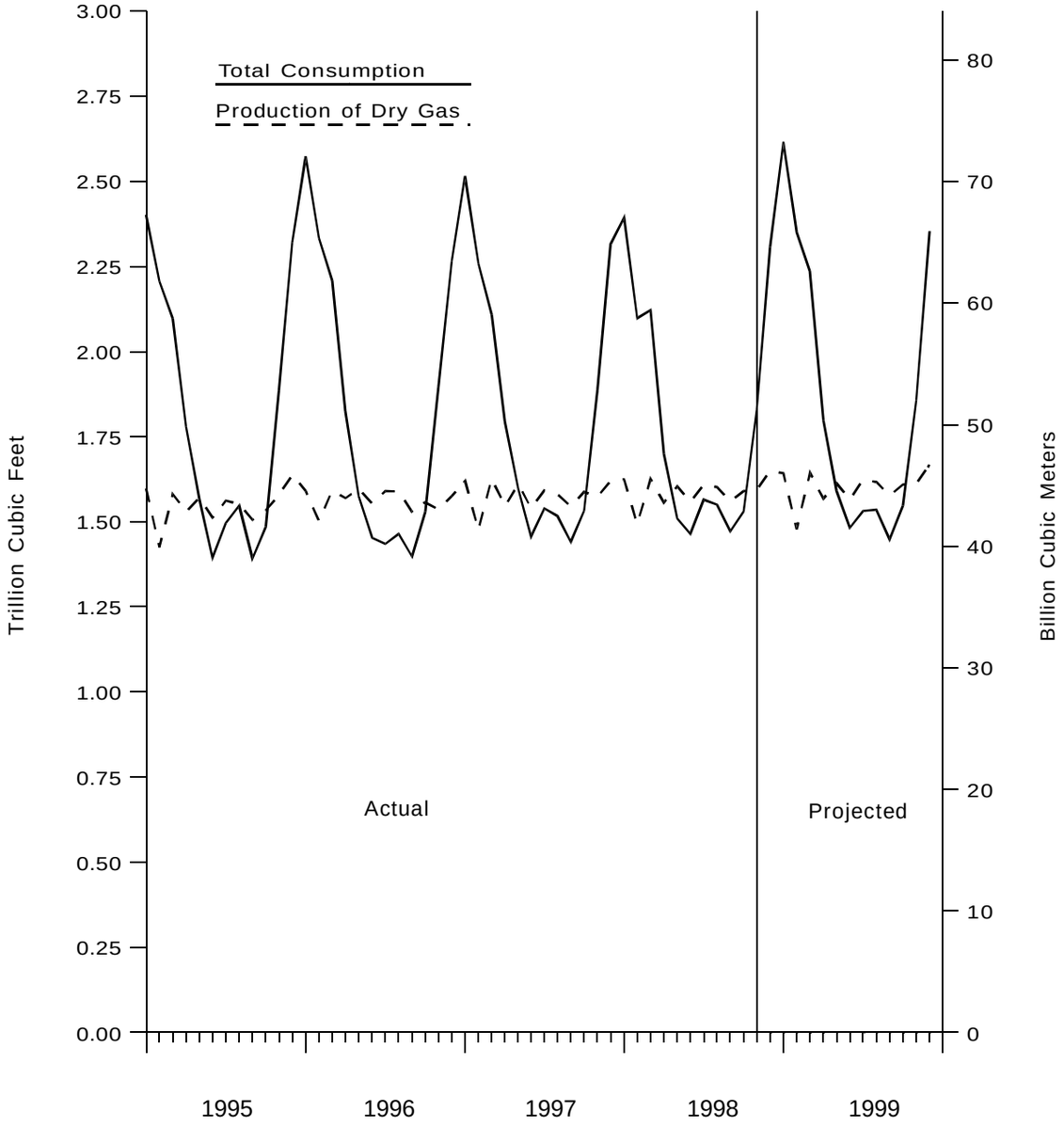
[E] = Estimated Data.

[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 dicussion 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	[R]81	907	478	804	139	2,328	2,516
February	[E]97	73	767	428	[R]749	143	[R]2,088	[R]2,259
March	[E]107	68	609	[R]367	[R]767	190	[R]1,932	2,108
April	[E]102	58	436	[R]274	[R]731	193	[R]1,635	[R]1,795
May	[E]106	52	288	[R]212	[R]710	231	[R]1,442	[R]1,599
June	[E]101	47	165	161	687	296	1,309	[R]1,457
July	[E]105	50	129	[R]150	[R]680	428	[R]1,386	[R]1,540
August	[E]104	49	[R]118	[R]144	[R]711	391	[R]1,365	[R]1,518
September	[E]102	47	130	146	[R]685	333	[R]1,293	[R]1,442
October	[E]105	50	235	194	704	246	1,379	1,533
November	[E]104	61	499	318	[R]726	180	[R]1,723	[R]1,888
December	[E]107	75	[R]731	[R]415	790	199	2,134	2,316
Total	[E]1,245	712	[R]5,013	[R]3,285	[R]8,745	2,969	[R]20,013	[R]21,970
1998								
January	[E]107	78	794	[R]446	799	171	[R]2,210	[R]2,394
February	[E]98	68	[R]680	[R]389	730	134	[R]1,933	[R]2,099
March	[E]107	69	[R]636	[R]369	749	194	[R]1,948	[R]2,123
April	[E]102	55	405	254	694	190	1,543	1,701
May	[RE]106	[R]49	219	175	[R]668	293	[R]1,355	[R]1,510
June	[RE]103	47	[R]152	145	641	379	1,316	1,466
July	[E]106	51	123	154	683	449	1,409	1,566
August(STIFS)	[E]103	[E]48	[R]111	[E]145	[E]708	NA	[R]1,400	[R]1,551
September(STIFS)	[E]101	[E]48	[RE]124	[E]148	[E]690	NA	[RE]1,324	[RE]1,473
October(STIFS)	[E]104	[E]51	[E]218	[E]185	[E]736	NA	[E]1,376	[E]1,531
1998 YTD[d]	[E]1,037	[E]564	[E]3,463	[E]2,408	[E]7,097	1,810	[E]15,814	[E]17,414
1997 YTD	[E]1,035	575	3,783	2,553	7,229	1,620	16,156	17,766
1996 YTD	1,042	576	4,001	2,455	7,299	1,552	16,185	17,803

[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.

[R] = Revised Data.

[E] = Estimated Data.

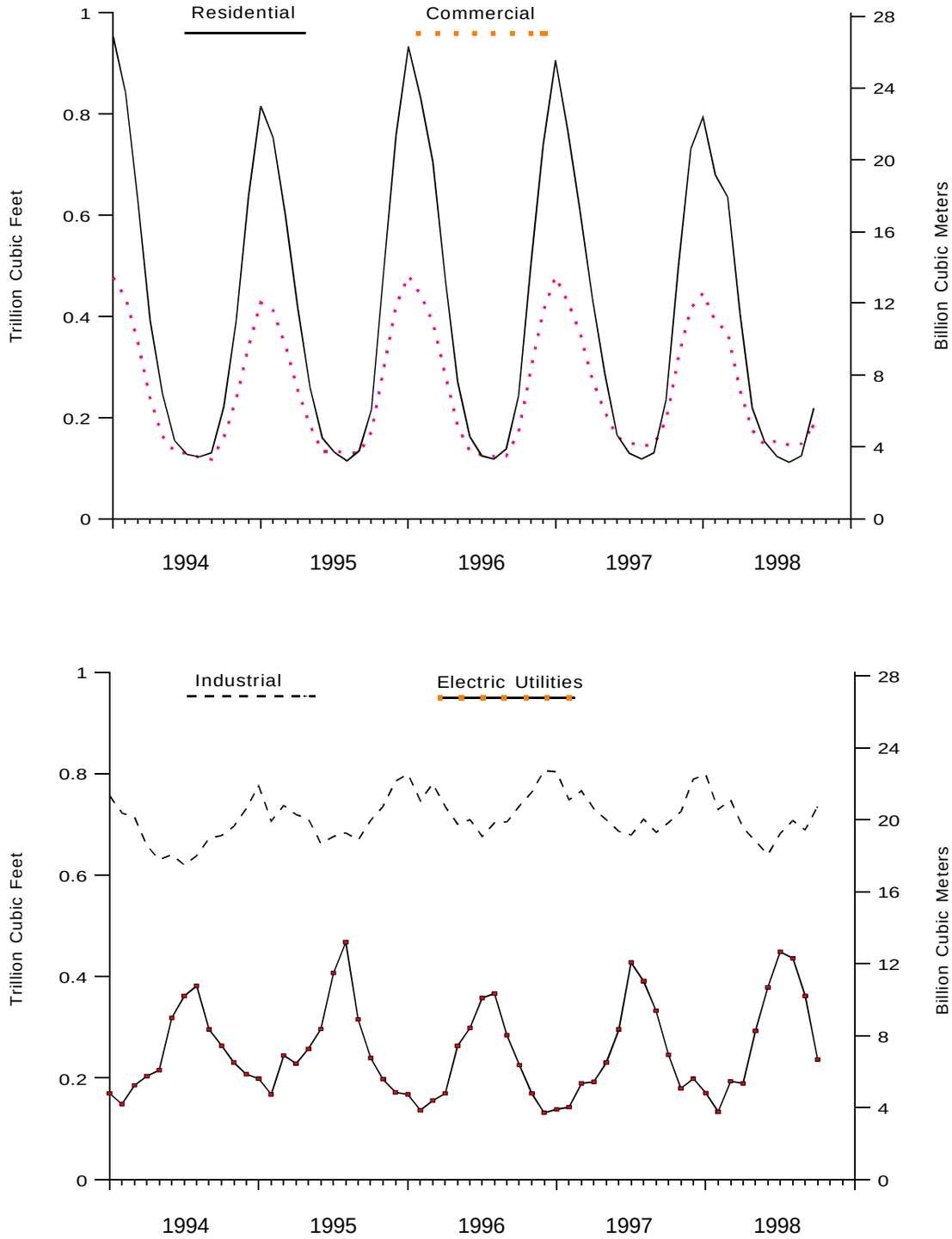
[RE] = Revised Estimated Data.

[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)

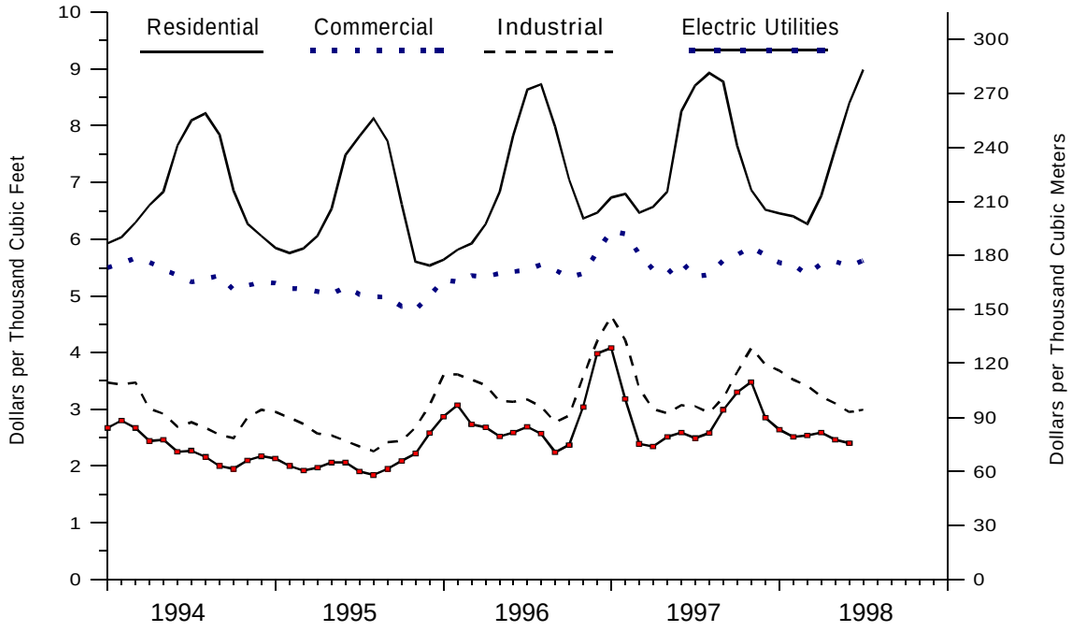
Year and Month	Wellhead Price[a]	City Gate Price	Delivered to Consumers					
			Residential Price	Commercial		Industrial		Electric Utilities Price
				Price	% of Total[b]	Price	% of Total[b]	
1992 Annual Average	1.74	3.01	5.89	4.88	83.2	2.84	30.3	2.36
1993 Annual Average	2.04	3.21	6.16	5.22	83.9	3.07	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	[R]4.65	19.4	4.08
February	2.44	3.78	6.80	[R]6.10	76.9	[R]4.22	[R]17.6	3.18
March	1.61	3.05	[R]6.47	[R]5.74	73.0	[R]3.37	17.4	2.39
April	1.64	2.94	6.57	[R]5.47	[R]70.6	3.00	[R]16.8	2.34
May	1.87	3.14	6.84	[R]5.39	[R]63.7	[R]2.93	[R]16.5	2.51
June	2.01	3.38	[R]8.26	5.61	60.0	3.07	15.9	2.59
July	1.91	3.50	[R]8.71	[R]5.34	58.2	[R]3.05	[R]13.9	2.49
August	1.95	3.39	[R]8.93	[R]5.38	[R]56.8	[R]2.94	[R]13.8	2.58
September	2.22	3.57	[R]8.78	[R]5.63	57.5	[R]3.20	[R]13.9	2.99
October	2.70	3.90	7.65	5.73	61.6	3.66	15.2	3.30
November	2.77	3.92	[R]6.87	[R]5.87	67.3	[R]4.08	[R]16.1	3.48
December	2.17	[R]3.41	[R]6.52	5.72	[R]71.9	3.79	15.1	2.85
Annual Average	2.23	3.59	[R]6.94	[R]5.79	[R]69.3	[R]3.55	[R]16.0	2.81
1998								
January	[E]1.72	3.28	[R]6.46	[R]5.59	[R]72.4	3.68	14.9	2.64
February	[E]1.64	3.08	6.41	[R]5.56	[R]71.0	3.52	15.3	2.51
March	[E]1.86	3.22	[R]6.27	[R]5.38	[R]71.7	3.41	16.5	2.54
April	[E]1.89	3.22	[R]6.77	[R]5.57	67.0	3.22	15.0	2.59
May	[E]1.88	[R]3.11	[R]7.59	5.61	60.3	[R]3.10	[R]13.9	2.46
June	[E]1.71	2.97	[R]8.40	5.53	60.0	[R]2.95	[R]14.0	2.40
July	[E]1.89	3.34	8.99	5.63	51.2	2.99	12.6	[NA]
1998 YTD[c]	[E]1.80	3.18	6.73	5.54	67.6	3.30	14.7	2.50
1997 YTD	2.13	3.55	6.84	5.83	71.6	3.55	16.9	2.75
1996 YTD	2.04	3.21	6.12	5.33	79.8	3.40	20.3	2.70

[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.

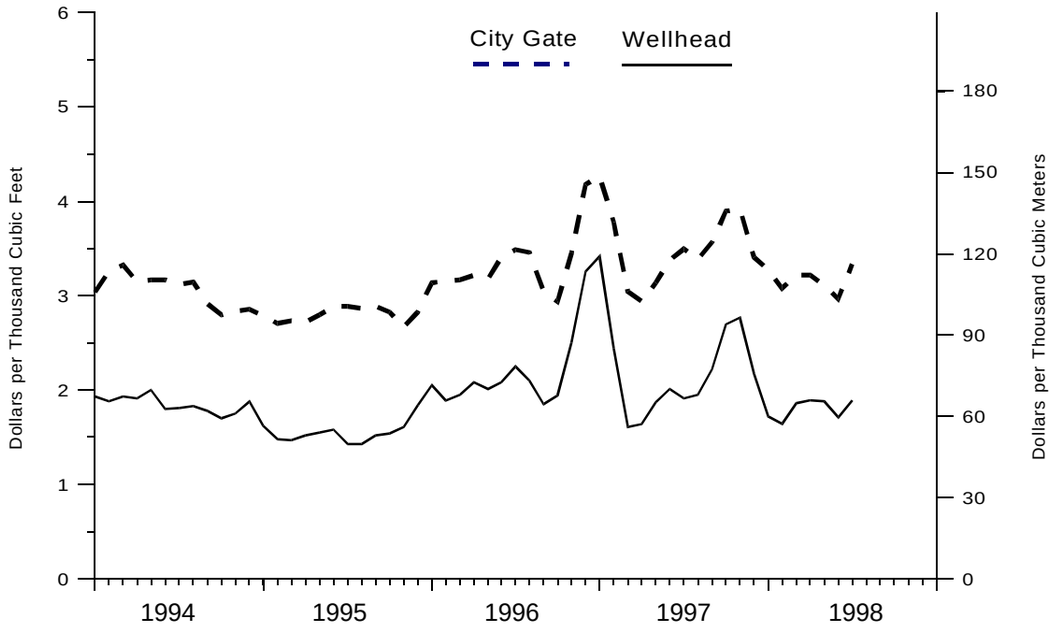
Sources: 1990-1996: Energy Information Administration (EIA) *Natural Gas Annual 1996.* 1997 forward: EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and EIA estimates. January 1997 through 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	[R]2.83	[b]2,171	[R]3.84	247,890	1.99
March	258,067	1.99	382	2.20	5,166	[R]3.12	—	—	263,615	2.01
April	242,191	[R]2.00	[R]3,251	[R]2.37	2,549	[R]2.20	—	—	[R]247,991	[R]2.01
May	242,041	[R]1.98	[R]846	[R]2.15	7,596	[R]2.52	—	—	[R]250,483	[R]2.00
June	[R]243,259	[R]1.92	[R]5	[R]2.21	5,125	[R]2.39	[b]2,441	[R]2.79	[R]250,830	[R]1.94
July	[R]256,506	NA	[E]1,000	NA	5,086	NA	—	—	[RE]262,593	NA
August	[E]264,195	NA	[E]1,000	NA	2,540	NA	[b]2,321	NA	[E]270,057	NA
1998 YTD	[E]2,014,736	NA	[E]9,364	NA	45,776	NA	6,933	NA	[E]2,076,808	NA
1997 YTD	1,910,200	2.07	12,563	2.22	40,487	2.62	4,873	3.18	1,968,122	2.09
1996 YTD	1,898,302	1.85	10,904	2.22	20,014	2.72	0	—	1,929,220	1.86

[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	[R]3.09	19,457	[R]2.55
April	[R]4,409	[R]2.47	[R]2,676	[R]2.22	5,702	[R]2.81	[R]12,787	[R]2.57
May	[R]2,083	[R]2.28	[R]6,123	[R]2.12	1,891	[R]2.70	[R]10,097	[R]2.26
June	[R]3,404	[R]1.73	[R]5,618	[R]1.98	5,695	[R]3.09	[R]14,717	[R]2.35
July	[E]3,800	NA	[E]5,775	NA	5,681	NA	[E]15,256	NA
August	[E]3,800	NA	[E]6,000	NA	5,676	NA	[E]15,476	NA
1998 YTD	[E]34,844	NA	[E]37,772	NA	43,252	NA	[E]115,868	NA
1997 YTD	37,990	2.41	22,598	2.32	41,423	3.95	102,011	3.01
1996 YTD	33,081	2.63	26,014	2.02	45,062	3.56	104,158	2.88

[R] = Revised Data.
[E] = 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	[R]23,889	56,151	512	[E]53,006
June	[E]32,388	[E]33,250	34	[E]23,501	[E]52,545	428	[E]49,356
1998 YTD	[E]193,924	[E]223,902	252	[E]138,740	[E]326,085	2,800	[E]309,527
1997 YTD	187,274	241,707	232	142,603	289,942	3,180	351,008
1996 YTD	266,004	242,202	248	139,669	279,364	2,912	368,055

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	141,671	4,337	142,541
April	449,961	17,983	8,957	[E]4,703	140,963	4,284	134,885
May	461,826	[R]29,164	9,121	[E]4,627	140,258	4,488	142,725
June	454,466	[E]25,851	8,586	[E]3,903	[E]135,464	4,210	137,906
1998 YTD	2,719,981	[E]160,415	54,659	[E]28,215	[E]843,050	25,961	838,230
1997 YTD	[E]2,752,623	152,660	49,990	25,905	744,889	25,328	840,880
1996 YTD	2,618,085	125,471	50,094	25,049	803,351	24,705	855,557

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	[E]719,932	[E]795,764	[E]19,895,156
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	[E]1,710,299
April	92	525,602	23,513	61,974	[E]65,681	[E]1,636,078
May	92	550,442	[R]24,967	54,304	[E]66,263	[RE]1,687,314
June	90	527,613	[E]20,751	63,574	[E]65,206	[E]1,639,119
1998 YTD	539	3,178,960	[E]136,471	365,601	[E]403,336	[E]9,950,649
1997 YTD	606	3,238,124	124,245	339,478	[E]395,349	[E]9,906,023
1996 YTD	695	3,220,942	122,333	338,811	406,192	9,889,748

[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, June 1998

(Million Cubic Feet)

State	Gross Withdrawals			Repressuring	Nonhydrocarbon Gases Removed[a]	Vented and Flared	Marketed Production
	From Gas Wells	From Oil Wells	Total				
Alabama	[E]35,008	[E]702	[E]35,710	[E]1,140	[E]2,055	[E]127	[E]32,388
Alaska	[E]13,302	[E]223,017	[E]236,319	[E]202,599	0	[E]471	[E]33,250
Arizona	32	2	34	0	0	0	34
California	[E]6,691	[E]26,797	[E]33,488	[E]9,754	[E]157	[E]76	[E]23,501
Colorado	[E]45,734	[E]7,592	[E]53,326	[E]691	0	[E]90	[E]52,545
Florida	0	483	483	0	55	0	428
Kansas	[E]45,531	[E]3,959	[E]49,490	[E]84	0	[E]49	[E]49,356
Louisiana	399,927	60,121	460,048	3,608	0	1,974	454,466
Michigan	[E]21,039	[E]5,260	[E]26,299	[E]185	0	[E]263	[E]25,851
Mississippi	9,471	709	10,180	662	713	220	8,586
Montana	[E]3,466	[E]471	[E]3,937	[E]5	0	[E]29	[E]3,903
New Mexico	[E]127,868	[E]22,165	[E]150,034	[E]913	[E]13,413	[E]243	[E]135,464
North Dakota	1,455	3,297	4,752	0	5	537	4,210
Oklahoma	125,504	12,402	137,906	0	0	0	137,906
Oregon	107	0	107	4	13	0	90
Texas	467,814	113,197	581,011	37,600	13,354	2,445	527,613
Utah	[E]18,286	[E]3,251	[E]21,537	[E]42	0	[E]743	[E]20,751
Wyoming	97,863	5,285	103,148	12,497	13,530	13,547	63,574
Other States	[E]61,663	[E]4,332	[E]65,996	[E]188	0	[E]602	[E]65,206
Total	[E]1,480,759	[E]493,044	[E]1,973,804	[E]269,973	[E]43,294	[E]21,417	[E]1,639,119

[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)

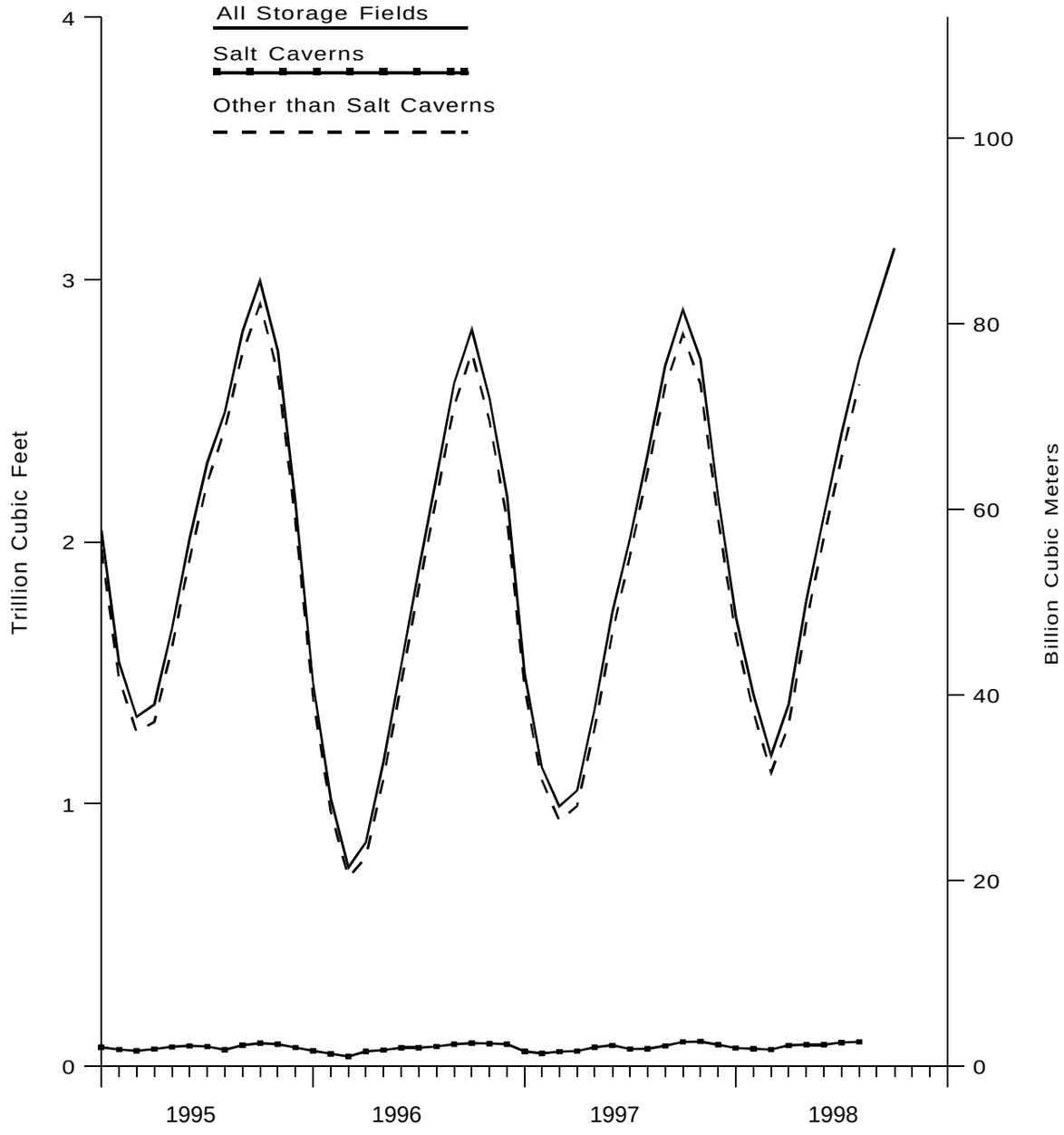
Year and Month	Natural Gas in Underground Storage at End of Period			Change In Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total[b]	Volume	Percent	Injections	Withdrawals	Net Withdrawals[c]
1992 Total[a]	4,044	2,597	6,641	-227	-8.0	2,555	2,724	168
1993 Total[a]	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	4,333	2,695	7,028	358	15.3	341	58	-283
September(STIFS)	[RE]4,333	[RE]2,910	[RE]7,243	[RE]237	[RE]8.9	NA	NA	[RE]-215
October(STIFS)	[E]4,333	[E]3,121	[E]7,454	[E]235	[E]8.2	NA	NA	[E]-211

[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 - 8128.
[c] Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.
[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	--	--	--	--	--	353	2,182	1,829
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	--	--	--	--	--	375	2,698	2,323
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	--	--	--	--	--	431	2,266	1,835
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	366	52	-314
August	4,333	2,695	7,028	358	15.3	341	58	-283
September(STIFS)	[RE]4,333	[RE]2,910	[RE]7,243	[RE]237	[RE]8.9	[NA]	[NA]	[RE]-215
October(STIFS)	[E]4,333	[E]3,121	[E]7,454	[E]235	[E]8.2	[NA]	[NA]	[E]-211

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

[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
August	65	93	158	26	39.5	24	21	-2

— = 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 withrawals 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
August	4,268	2,602	6,870	332	14.6	317	37	-281

— = 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					
	August	July	June	May	April	March
Alabama	-200	9	-623	-144	-245	248
Arkansas	-1,005	-1,034	-1,100	-1,046	-471	1,039
California	-7,283	-9,435	-27,493	-29,210	-10,710	-2,257
Colorado	-5,877	-4,060	-3,907	-6,040	3,534	3,928
Illinois	-31,634	-25,062	-31,348	-25,967	-293	28,186
Indiana	-3,695	-2,476	-575	-446	917	4,249
Iowa	-12,102	-11,525	-8,405	-3,600	348	6,692
Kansas	-12,200	-13,108	-6,267	-19,324	-6,954	14,438
Kentucky	-4,533	-10,622	-8,137	-11,793	-2,480	7,768
Louisiana	-20,159	-25,597	-14,635	-22,794	-21,191	7,400
Maryland	-1,407	-2,924	-1,251	-808	-1,127	1,631
Michigan	-52,128	-60,857	-69,589	-69,296	-31,779	55,388
Minnesota	-214	-289	-169	0	159	416
Mississippi	-4,139	-5,961	-2,887	-3,438	-2,757	2,405
Missouri	-203	8	143	-460	48	423
Montana	-4,524	-2,295	-2,024	-2,571	224	3,017
Nebraska	-616	-796	-528	-860	754	1,090
New Mexico	-208	-191	-180	-1,120	287	658
New York	-5,247	-8,108	-8,786	-11,267	-3,673	7,977
Ohio	-27,246	-31,220	-25,882	-35,968	-14,906	28,619
Oklahoma	-7,189	-7,554	-12,460	-23,277	-21,343	7,159
Oregon	-819	-852	-1,411	0	81	934
Pennsylvania	-19,657	-31,998	-34,236	-57,800	-32,842	38,957
Texas	-18,629	-18,872	-20,145	-27,286	-40,395	-9,062
Utah	-7,385	-7,265	-8,225	-7,364	-596	1,199
Washington	-3,640	-312	-2,963	-3,932	1,544	3,329
West Virginia	-29,075	-28,560	-26,404	-26,003	-14,607	22,818
Wyoming	-2,008	-2,807	-3,406	-1,344	89	2,611
AGA Regions						
Producing	-63,530	-72,318	-57,675	-98,285	-92,824	24,038
Eastern Consuming	-187,744	-214,131	-215,621	-244,412	-99,884	204,045
Western Consuming	-31,751	-27,316	-49,599	-50,461	-5,674	13,177
Total	-283,025	-313,764	-322,895	-393,158	-198,382	241,260

See footnotes at end of table.

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

(Volumes in Million Cubic Feet) — Continued

State	1998		1997				
	February	January	Total	December	November	October	September
Alabama	187	396	-162	243	243	-251	-262
Arkansas	875	1,057	251	1,526	651	271	-1,048
California	26,766	29,805	14,425	58,445	2,749	-11,834	-6,817
Colorado	6,337	3,510	384	5,111	2,545	458	-5,141
Illinois	36,082	58,036	-11,140	45,338	2,735	-28,914	-36,161
Indiana	3,322	4,144	365	4,036	-925	-3,135	-4,603
Iowa	5,335	18,905	-6,207	16,932	554	-8,358	-12,762
Kansas	8,180	15,103	-12,416	12,485	8,499	-7,912	-13,678
Kentucky	9,981	9,559	3,182	10,772	4,043	-2,925	-7,983
Louisiana	5,164	21,574	-7,721	43,862	21,196	-23,999	-29,222
Maryland	2,745	3,236	-148	1,312	53	-2,283	-2,766
Michigan	45,886	84,170	-702	77,495	53,120	-32,347	-64,478
Minnesota	203	444	-303	5	4	0	-130
Mississippi	4,251	7,431	3,703	8,471	1,122	-2,145	-5,204
Missouri	10	458	-453	228	-207	-215	-240
Montana	2,554	4,421	11,955	3,168	2,753	1,015	-1,490
Nebraska	355	376	-1,545	944	126	-66	-1,091
New Mexico	-130	-412	2,065	2,500	25	-1,305	-853
New York	9,548	11,582	-131	10,285	4,803	-2,343	-6,626
Ohio	34,023	34,810	-6,964	40,390	15,498	-8,799	-23,418
Oklahoma	737	21,199	-10,892	24,727	13,548	-19,571	-14,433
Oregon	1,253	540	-1,019	1,036	-250	-93	-391
Pennsylvania	49,786	57,788	28,252	53,756	25,976	-16,030	-48,951
Texas	-3,341	35,935	11,896	54,705	19,105	-30,561	-21,242
Utah	6,783	7,613	-7,571	13,169	2,721	-1,301	-3,235
Washington	4,131	-58	-904	3,177	90	707	-2,267
West Virginia	36,285	30,647	17,744	36,345	6,670	-8,103	-18,997
Wyoming	2,059	3,990	963	3,015	1,918	-577	-2,424
AGA Regions							
Producing	15,735	101,887	-13,114	148,276	64,145	-85,222	-85,680
Eastern Consuming	233,545	314,105	22,091	298,078	112,688	-113,768	-228,337
Western Consuming	50,086	50,266	17,929	87,127	12,530	-11,625	-21,894
Total	299,366	466,258	26,906	533,481	189,363	-210,615	-335,912

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						
	August	July	June	May	April	March	February
Alabama	-286	-43	-93	-271	-130	-25	184
Arkansas	-1,234	-1,472	-1,340	-608	178	342	1,006
California	-8,032	-11,406	-23,191	-24,048	-19,220	-441	19,742
Colorado	-4,488	-5,540	-5,257	-5,328	5,569	2,069	4,862
Illinois	-35,848	-32,648	-28,038	-23,880	-546	23,189	39,774
Indiana	-3,757	-3,309	-1,914	-110	1,444	2,498	2,866
Iowa	-10,938	-8,777	-8,361	-3,473	1,627	2,953	8,469
Kansas	-11,439	-3,703	-12,195	-9,699	-1,605	4,096	9,102
Kentucky	-6,520	-7,391	-8,991	-7,821	-343	4,166	8,068
Louisiana	-15,259	-11,713	-19,702	-19,500	-3,923	-18,817	21,080
Maryland	-2,292	-1,497	-1,657	-1,590	133	1,903	2,662
Michigan	-72,202	-74,634	-72,604	-46,126	-13,752	53,314	71,108
Minnesota	-137	-321	-312	-273	-31	188	117
Mississippi	-3,115	709	-3,812	-5,552	442	-2,306	2,924
Missouri	-379	-433	-112	-1,200	56	1,174	-252
Montana	-2,339	-2,710	-1,633	-846	1,810	2,591	3,983
Nebraska	-964	-75	-797	-708	-43	-241	504
New Mexico	-328	587	-534	-1,228	583	501	1,527
New York	-11,544	-11,628	-10,571	-7,770	-1,700	9,210	10,116
Ohio	-32,053	-34,093	-37,335	-34,081	-1,385	21,557	28,120
Oklahoma	-8,317	-864	-8,028	-18,258	-7,130	-8,092	7,912
Oregon	-1,123	-1,240	-1,602	-1,239	543	920	1,078
Pennsylvania	-44,991	-41,099	-49,619	-44,272	-3,306	50,263	52,298
Texas	-13,220	10,013	-20,500	-27,751	-17,395	-21,183	24,869
Utah	-5,284	-8,117	-7,950	-4,255	-2,150	-2,620	2,520
Washington	990	-490	-3,766	-5,880	-66	3,217	1,798
West Virginia	-24,020	-26,065	-31,691	-23,964	1,715	23,312	28,900
Wyoming	-2,712	-3,393	-2,290	-1,119	127	1,082	2,976
AGA Regions							
Producing	-52,913	-6,442	-66,111	-82,596	-28,850	-45,460	68,420
Eastern Consuming	-245,796	-241,693	-251,783	-195,265	-16,231	193,275	252,817
Western Consuming	-23,125	-33,218	-46,001	-42,987	-13,416	7,006	37,076
Total	-321,834	-281,353	-363,895	-320,849	-58,498	154,821	358,313

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	1996					
	January	Total	December	November	October	September	August
Alabama	531	-1,224	761	129	-117	-440	-395
Arkansas	1,978	64	644	562	-603	-1,153	-615
California	38,477	51,292	14,985	-2,885	-6,393	-6,822	15,439
Colorado	5,523	-1,004	2,923	92	-87	-3,828	-3,722
Illinois	63,858	-15,109	35,109	15,523	-28,103	-36,529	-35,172
Indiana	7,272	-1,801	3,290	-853	-2,715	-3,911	-6,115
Iowa	15,926	-1,229	18,020	5,502	-10,555	-12,536	-13,166
Kansas	13,633	12,118	12,290	12,828	-6,005	-8,532	-8,265
Kentucky	18,108	-7,530	8,039	4,853	-2,826	-8,590	-10,071
Louisiana	48,276	10,964	32,273	29,327	-15,704	-33,463	-32,218
Maryland	5,873	24	958	1,424	-1,553	-1,677	-1,845
Michigan	120,403	-31,671	83,640	61,160	-49,100	-81,220	-82,649
Minnesota	588	-30	218	30	-35	-202	-213
Mississippi	12,169	-12,758	4,658	5,707	-3,369	-7,330	-7,868
Missouri	1,126	-48	76	306	-210	-204	-206
Montana	5,651	11,725	5,512	4,760	336	-3,519	-3,501
Nebraska	867	-1,489	1,108	479	600	-785	-1,346
New Mexico	591	5,338	-823	607	482	-1,873	363
New York	17,636	-13,367	8,151	6,347	-2,750	-7,327	-12,585
Ohio	58,636	-10,844	35,138	25,728	-13,648	-23,807	-29,581
Oklahoma	27,616	22,961	20,970	17,468	-10,345	-18,814	-14,973
Oregon	1,341	783	1,240	552	170	-121	-509
Pennsylvania	94,228	-59,533	25,003	33,464	-15,621	-37,711	-52,038
Texas	55,056	63,869	24,153	12,557	-22,072	-34,225	-18,108
Utah	8,931	12,955	9,164	4,651	1,416	-2,204	-3,884
Washington	1,587	2,067	1,746	462	1,648	-597	-1,965
West Virginia	53,643	-35,844	21,644	19,884	-15,242	-28,009	-19,913
Wyoming	4,361	5,056	3,529	2,903	-272	-613	-771
AGA Regions							
Producing	159,319	102,555	94,165	79,056	-57,617	-105,390	-81,685
Eastern Consuming	458,106	-179,663	240,936	173,946	-141,841	-242,746	-265,082
Western Consuming	66,459	82,844	39,316	10,566	-3,217	-17,907	874
Total	683,884	5,735	374,417	263,567	-202,675	-366,042	-345,894

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, August 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	1,540	2,730	288	23.0	203	3
Arkansas	31,871	10,960	7,441	18,401	636	9.4	1,040	35
California	396,430	243,228	155,486	398,714	-12,854	-7.6	12,168	4,885
Colorado	99,600	48,140	32,646	80,786	-190	-0.6	6,291	414
Illinois	898,565	649,968	205,365	855,332	8,527	4.3	32,751	1,117
Indiana	113,210	73,777	25,532	99,309	-375	-1.4	3,718	23
Iowa	271,200	200,700	46,443	247,143	6,861	17.3	13,088	986
Kansas	304,066	191,000	93,194	284,194	21,254	29.5	14,791	2,591
Kentucky	219,908	109,104	96,165	205,269	10,942	12.8	4,752	219
Louisiana	559,013	265,647	217,994	483,640	62,389	40.1	31,956	11,797
Maryland	62,000	46,677	12,982	59,660	3,589	38.2	1,407	0
Michigan	992,934	420,884	540,492	961,376	67,244	14.2	52,640	511
Minnesota	7,000	4,623	1,823	6,446	-429	-19.0	284	70
Mississippi	134,012	77,455	47,188	124,643	3,148	7.1	6,325	2,186
Missouri	31,274	21,600	9,020	30,620	8	0.1	211	8
Montana	342,785	167,368	47,271	214,639	-4,243	-8.2	4,878	354
Nebraska	39,469	31,507	3,743	35,250	336	9.9	792	176
New Mexico	96,600	23,489	8,253	31,742	2,746	49.9	883	674
New York	175,479	103,042	64,483	167,525	4,740	7.9	6,165	918
Ohio	573,434	352,680	165,056	517,736	13,026	8.6	27,796	550
Oklahoma	396,087	234,061	122,186	356,246	39,030	46.9	13,480	6,291
Oregon	11,623	4,896	6,260	11,156	-29	-0.5	819	0
Pennsylvania	684,842	354,901	315,535	670,435	31,380	11.0	30,243	10,586
Texas	683,891	252,720	251,953	504,673	86,021	51.8	31,640	13,011
Utah	121,980	64,465	30,504	94,969	-5,609	-15.5	7,394	9
Washington	37,300	22,096	12,547	34,644	9	0.1	3,952	312
West Virginia	734,158	296,487	154,642	451,129	20,934	15.7	29,591	516
Wyoming	105,869	60,729	19,209	79,938	-927	-4.6	2,015	6
AGA Regions								
Producing	2,205,540	1,055,332	748,207	1,803,540	215,226	40.4	100,115	36,584
Eastern Consuming	4,799,753	2,662,518	1,640,997	4,303,515	167,501	11.4	203,357	15,613
Western Consuming	1,122,586	615,545	305,746	921,291	-24,272	-7.4	37,801	6,050
Total	8,127,879	4,333,396	2,694,950	7,028,345	358,455	15.3	341,272	58,247

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		
				July	June	May
Alabama	35,925	32,528	42,203	1,202	1,386	2,335
Alaska	8,763	8,724	9,919	479	628	933
Arizona	26,253	21,308	18,519	1,062	1,375	2,092
Arkansas	24,392	28,866	32,813	1,146	1,171	R1,731
California	371,062	308,558	288,380	25,147	33,207	38,118
Colorado	NA	75,825	75,374	NA	1,592	7,546
Connecticut	24,638	27,007	30,614	1,028	1,195	1,878
Delaware	5,760	6,436	7,261	197	252	450
District of Columbia	9,441	10,653	12,274	371	435	636
Florida	10,936	9,112	11,639	707	817	1,017
Georgia	72,225	65,182	82,002	2,956	3,186	3,558
Hawaii	345	312	334	45	47	47
Idaho	10,771	10,196	9,859	402	666	904
Illinois	255,090	320,074	343,348	9,497	11,529	14,790
Indiana	NA	112,267	120,695	NA	R3,291	5,270
Iowa	46,141	53,581	56,975	1,622	1,435	2,807
Kansas	52,065	50,173	54,764	1,783	2,155	3,803
Kentucky	35,876	41,027	45,373	1,321	1,360	1,961
Louisiana	34,082	34,584	41,174	1,774	1,814	2,310
Maine	587	638	623	22	R31	R45
Maryland	45,839	50,477	58,269	1,828	2,087	2,992
Massachusetts	NA	75,783	80,323	2,842	NA	NA
Michigan	215,679	257,687	273,040	7,275	9,771	13,888
Minnesota	69,219	86,420	93,101	2,537	2,735	3,836
Mississippi	NA	18,132	22,097	NA	NA	NA
Missouri	80,320	88,232	95,480	2,670	3,128	4,980
Montana	NA	13,583	14,099	481	1,086	NA
Nebraska	29,524	33,667	33,540	1,014	1,199	1,961
Nevada	20,158	16,773	14,848	977	1,487	1,884
New Hampshire	4,477	4,742	4,854	169	238	378
New Jersey	126,371	143,378	153,600	4,845	5,736	11,735
New Mexico	21,926	21,268	21,328	822	284	1,270
New York	NA	277,839	277,778	NA	NA	NA
North Carolina	37,546	35,613	42,267	1,044	1,192	2,243
North Dakota	6,905	8,269	8,422	235	292	490
Ohio	NA	238,849	251,796	NA	8,509	11,550
Oklahoma	48,694	49,478	54,148	1,633	1,855	3,094
Oregon	NA	22,585	22,022	944	1,641	2,135
Pennsylvania	NA	174,129	190,477	5,283	6,505	9,880
Rhode Island	NA	12,614	13,418	462	622	R1,001
South Carolina	19,144	16,901	21,207	474	562	1,071
South Dakota	7,814	9,099	9,302	274	302	512
Tennessee	NA	43,404	50,019	1,186	1,410	2,674
Texas	125,334	137,414	154,065	5,436	5,478	8,183
Utah	33,388	33,986	32,221	1,264	1,958	2,243
Vermont	1,680	1,843	1,810	56	77	118
Virginia	43,075	48,508	52,163	1,425	1,737	2,509
Washington	NA	NA	40,926	NA	NA	NA
West Virginia	NA	23,033	25,990	NA	NA	NA
Wisconsin	73,999	87,278	96,244	2,415	3,470	4,080
Wyoming	NA	8,271	8,736	NA	503	704
Total	3,010,064	3,300,420	3,501,737	123,381	R152,017	R219,256

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	
	April	March	February	January	Total	December
Alabama	4,610	7,480	9,222	9,689	48,328	7,914
Alaska	1,239	1,529	1,716	2,240	15,284	2,162
Arizona	3,694	5,323	5,604	7,103	31,162	4,780
Arkansas	2,270	6,069	6,668	5,336	42,472	6,375
California	54,072	62,006	76,210	82,302	486,233	69,510
Colorado	R11,118	R15,570	R16,176	R18,860	R111,781	R16,877
Connecticut	3,638	5,051	5,585	6,263	39,929	5,901
Delaware	846	1,248	1,360	1,408	8,920	1,206
District of Columbia	1,195	2,032	2,365	2,409	15,698	2,312
Florida	1,631	2,044	2,251	2,470	14,538	2,038
Georgia	8,015	16,312	18,031	20,167	114,282	19,723
Hawaii	49	49	52	55	518	45
Idaho	1,560	2,032	2,232	2,975	15,245	2,372
Illinois	33,014	54,697	53,146	78,417	497,370	69,685
Indiana	NA	23,358	20,668	26,868	170,494	26,161
Iowa	5,821	10,634	10,261	13,560	81,357	12,039
Kansas	7,378	11,857	11,594	13,494	75,968	11,319
Kentucky	3,937	8,164	8,515	10,618	65,852	11,153
Louisiana	3,736	7,184	7,953	9,311	52,364	8,007
Maine	92	120	124	153	1,009	142
Maryland	5,696	9,577	11,052	12,609	77,109	10,927
Massachusetts	10,697	14,514	15,644	16,948	110,969	15,274
Michigan	31,736	47,397	48,977	56,636	379,431	49,980
Minnesota	7,148	16,337	15,023	21,603	R131,072	17,705
Mississippi	NA	NA	4,564	NA	27,399	4,327
Missouri	10,435	17,763	18,966	22,378	128,012	19,007
Montana	1,676	2,429	2,404	3,418	20,995	3,197
Nebraska	4,324	6,482	6,642	7,902	47,115	5,790
Nevada	2,826	3,809	4,149	5,025	25,154	3,867
New Hampshire	697	845	1,010	1,140	6,949	933
New Jersey	17,514	26,429	29,313	30,800	212,726	30,622
New Mexico	2,589	4,740	4,337	7,884	36,380	8,162
New York	30,102	42,752	46,717	NA	R399,216	R48,919
North Carolina	5,018	7,535	9,710	10,803	52,993	9,219
North Dakota	953	1,464	1,561	1,910	R11,754	1,471
Ohio	24,861	44,211	43,910	50,527	359,712	51,089
Oklahoma	5,854	10,832	11,652	13,774	71,745	11,053
Oregon	NA	NA	4,581	6,117	33,308	4,834
Pennsylvania	NA	32,526	34,714	31,526	262,841	37,823
Rhode Island	NA	2,402	2,720	2,781	18,162	2,509
South Carolina	2,421	4,006	5,177	5,432	25,475	4,634
South Dakota	1,127	1,738	1,666	2,196	13,225	1,734
Tennessee	5,170	9,938	9,546	NA	65,025	11,064
Texas	13,832	25,051	30,500	36,854	211,229	33,619
Utah	4,853	6,482	8,193	8,396	58,099	10,374
Vermont	266	340	397	427	2,631	345
Virginia	5,172	9,618	11,067	11,546	73,716	11,657
Washington	NA	NA	NA	NA	NA	NA
West Virginia	2,785	4,553	4,906	5,039	36,349	6,079
Wisconsin	9,198	17,130	15,618	22,087	136,335	19,157
Wyoming	1,182	1,566	1,560	NA	12,163	1,489
Total	R405,496	R636,106	R679,531	R794,277	R5,013,009	R730,763

See footnotes at end of table.

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998

(Million Cubic Feet) — Continued

State	1997					
	November	October	September	August	July	June
Alabama	3,963	1,435	1,250	1,238	1,392	1,604
Alaska	1,684	1,569	743	402	463	508
Arizona	1,980	1,057	1,127	910	1,019	1,154
Arkansas	4,018	1,346	949	918	1,028	1,240
California	40,537	24,905	21,772	20,951	26,840	23,572
Colorado	[R]9,806	4,146	2,623	2,503	2,865	3,991
Connecticut	3,625	1,492	1,001	903	949	1,380
Delaware	667	250	183	178	194	318
District of Columbia	1,414	553	393	372	419	562
Florida	1,192	755	699	742	785	856
Georgia	16,465	6,777	3,190	2,944	3,195	3,357
Hawaii	42	39	40	41	43	41
Idaho	1,429	639	315	294	346	433
Illinois	56,316	29,486	11,697	10,111	10,378	11,617
Indiana	17,458	8,129	3,491	2,989	2,852	4,958
Iowa	8,592	4,027	1,645	1,472	1,593	2,102
Kansas	8,812	2,419	1,629	1,616	1,862	1,652
Kentucky	8,075	3,072	1,448	1,077	1,419	1,572
Louisiana	4,321	2,085	1,697	1,671	1,685	2,050
Maine	107	66	30	26	21	34
Maryland	8,296	3,543	2,067	1,800	1,906	2,677
Massachusetts	10,140	4,780	2,555	2,437	2,831	4,370
Michigan	37,898	17,835	8,767	7,264	4,748	12,010
Minnesota	15,376	6,811	[R]2,534	[R]2,226	[R]2,376	[R]3,169
Mississippi	2,545	896	[R]779	[R]720	[R]790	920
Missouri	12,077	3,667	2,625	2,403	2,717	3,665
Montana	2,030	1,230	508	447	411	631
Nebraska	4,401	1,382	936	937	1,015	1,367
Nevada	1,917	1,019	802	777	887	981
New Hampshire	616	327	175	155	160	263
New Jersey	19,893	8,843	5,309	4,680	5,102	6,457
New Mexico	4,067	1,209	830	843	815	238
New York	35,378	16,616	9,976	[R]10,487	10,440	15,312
North Carolina	4,884	1,441	935	900	1,074	1,599
North Dakota	1,178	474	[R]193	[R]169	[R]192	[R]297
Ohio	37,009	19,335	7,228	6,202	7,533	14,843
Oklahoma	6,181	1,966	1,548	1,519	1,679	2,105
Oregon	2,809	1,498	826	756	878	1,065
Pennsylvania	26,338	12,987	6,315	5,249	5,153	7,583
Rhode Island	1,464	659	473	443	480	727
South Carolina	2,399	631	466	444	512	701
South Dakota	1,329	569	261	233	248	368
Tennessee	6,385	1,905	1,187	1,080	1,119	[R]1,584
Texas	19,418	8,261	6,416	6,101	6,829	7,595
Utah	6,017	4,299	1,957	1,466	1,501	1,601
Vermont	214	118	59	52	57	97
Virginia	7,430	3,007	1,640	1,473	1,576	2,054
Washington	NA	NA	NA	NA	NA	NA
West Virginia	4,103	1,755	784	594	488	961
Wisconsin	16,222	8,154	2,974	2,550	2,878	2,965
Wyoming	1,175	646	330	252	294	395
Total	[R]499,155	234,624	[R]129,837	[R]118,210	[R]128,521	[R]164,658

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
	May	April	March	February	January	Total
Alabama	2,638	3,180	5,326	9,098	9,290	56,522
Alaska	789	1,177	1,767	1,618	2,402	16,179
Arizona	1,571	2,259	4,235	5,092	5,978	27,709
Arkansas	2,324	3,293	4,942	7,754	8,285	46,289
California	28,707	39,271	48,377	66,688	75,103	473,310
Colorado	8,207	10,629	15,239	R16,898	R17,996	110,924
Connecticut	2,332	4,378	5,176	6,538	6,255	43,764
Delaware	557	942	1,265	1,612	1,549	9,791
District of Columbia	944	1,316	2,049	2,655	2,708	17,290
Florida	944	1,013	1,279	2,068	2,167	16,293
Georgia	3,834	8,221	9,001	16,024	21,550	127,062
Hawaii	42	41	46	49	51	540
Idaho	939	1,464	1,909	2,542	2,564	14,941
Illinois	26,081	41,192	61,416	69,338	100,053	538,749
Indiana	9,482	15,219	20,684	26,294	32,779	179,939
Iowa	3,938	6,971	9,528	11,881	17,568	88,078
Kansas	3,581	6,402	8,769	12,105	15,803	85,376
Kentucky	2,954	4,883	7,293	8,964	13,942	70,232
Louisiana	2,824	3,680	5,619	8,991	9,736	56,626
Maine	56	85	142	133	166	967
Maryland	4,215	6,913	8,998	12,080	13,687	85,533
Massachusetts	6,917	12,122	15,127	17,654	16,762	114,365
Michigan	26,958	38,256	51,299	57,545	66,871	399,522
Minnesota	6,775	11,435	16,959	19,966	25,740	142,319
Mississippi	1,463	1,904	3,038	4,968	5,050	30,157
Missouri	6,474	11,030	15,422	23,426	25,499	137,225
Montana	1,143	1,996	2,468	3,038	3,897	22,175
Nebraska	3,177	4,355	6,232	7,829	9,692	48,989
Nevada	1,419	2,018	3,172	3,825	4,470	22,607
New Hampshire	465	744	913	1,136	1,061	7,012
New Jersey	11,258	18,139	31,984	34,709	35,729	222,619
New Mexico	1,952	1,503	3,810	5,630	7,320	33,689
New York	27,004	41,729	R52,595	63,646	67,111	403,264
North Carolina	2,991	4,087	5,811	10,002	10,050	58,812
North Dakota	730	1,178	1,576	1,984	2,313	12,591
Ohio	21,575	33,023	44,153	52,497	65,225	374,824
Oklahoma	3,857	6,160	9,070	12,687	13,920	76,629
Oregon	1,920	3,206	4,350	5,308	5,857	33,236
Pennsylvania	15,446	25,130	33,537	41,287	45,992	278,606
Rhode Island	1,171	1,994	2,462	2,891	2,890	18,839
South Carolina	1,230	1,776	2,592	4,994	5,097	29,406
South Dakota	784	1,250	1,625	2,089	2,735	14,085
Tennessee	3,019	4,797	R8,003	12,086	12,795	70,423
Texas	10,420	14,025	22,686	33,154	42,706	229,318
Utah	1,821	4,875	5,945	8,366	9,876	54,344
Vermont	189	283	383	416	419	2,523
Virginia	4,227	6,662	9,123	11,741	13,126	76,214
Washington	5,591	4,586	8,132	9,377	10,885	62,689
West Virginia	2,246	3,421	4,318	5,630	5,969	37,390
Wisconsin	7,456	11,112	17,378	19,323	26,165	147,893
Wyoming	1,076	1,058	1,544	1,660	2,243	13,534
Total	287,712	436,386	R608,765	R767,282	907,096	5,241,414

R = Revised Data.
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		
				July	June	May
Alabama	20,690	20,390	20,145	1,030	1,118	3,768
Alaska	13,534	15,527	15,987	1,190	1,274	1,684
Arizona	20,681	19,156	18,085	1,890	2,073	2,495
Arkansas	NA	19,179	21,146	2,253	NA	R1,432
California	169,508	150,162	135,109	27,131	18,132	22,410
Colorado	NA	44,245	46,390	NA	3,415	4,768
Connecticut	27,321	26,940	25,836	2,456	2,151	2,124
Delaware	3,954	4,464	4,668	190	226	320
District of Columbia	11,656	11,679	10,499	871	913	1,085
Florida	24,288	22,708	26,289	2,630	2,748	3,112
Georgia	37,593	34,247	39,860	2,757	2,725	3,248
Hawaii	1,240	1,241	1,289	169	181	169
Idaho	7,680	7,444	7,405	407	537	689
Illinois	110,485	130,319	135,884	5,951	6,702	6,961
Indiana	NA	65,332	57,546	NA	NA	3,258
Iowa	29,246	31,871	35,057	1,353	1,237	1,566
Kansas	30,679	33,495	36,327	1,914	1,722	2,093
Kentucky	21,608	23,942	26,083	1,061	1,195	1,505
Louisiana	NA	15,701	17,611	1,799	NA	1,629
Maine	1,637	1,705	1,652	75	R90	R122
Maryland	30,120	30,862	29,501	2,188	2,507	2,532
Massachusetts	62,051	67,348	60,243	4,054	5,209	5,789
Michigan	108,332	129,044	134,780	5,301	6,297	8,530
Minnesota	52,039	59,999	62,171	2,026	3,003	3,208
Mississippi	NA	13,541	14,897	NA	NA	NA
Missouri	42,675	47,315	48,913	2,210	2,352	2,978
Montana	NA	9,028	9,320	400	839	NA
Nebraska	19,569	27,259	24,582	1,070	856	1,690
Nevada	15,270	13,851	12,740	1,304	1,587	1,876
New Hampshire	NA	4,819	4,752	228	NA	R375
New Jersey	93,977	94,234	99,875	6,385	6,873	10,233
New Mexico	16,698	16,595	16,667	998	932	1,525
New York	NA	221,862	NA	NA	NA	NA
North Carolina	25,703	24,407	26,916	1,502	1,658	2,053
North Dakota	6,616	7,631	7,766	285	312	507
Ohio	NA	122,588	128,398	NA	5,165	7,134
Oklahoma	31,147	29,302	31,528	1,837	1,826	2,291
Oregon	NA	16,725	16,454	1,047	1,428	1,618
Pennsylvania	NA	93,571	100,374	4,607	4,906	6,114
Rhode Island	NA	8,182	8,363	484	495	NA
South Carolina	13,194	11,334	13,082	1,013	1,063	1,209
South Dakota	6,161	6,961	7,344	283	285	539
Tennessee	NA	37,099	38,619	2,507	2,646	2,993
Texas	123,022	120,447	116,572	18,195	11,161	13,616
Utah	18,824	18,704	17,912	845	1,154	1,510
Vermont	1,913	1,994	1,880	102	110	116
Virginia	39,381	39,097	38,152	2,739	2,682	3,672
Washington	NA	NA	30,709	NA	NA	NA
West Virginia	NA	16,513	18,081	5,166	NA	1,709
Wisconsin	50,519	57,351	60,055	3,063	3,471	3,801
Wyoming	NA	8,784	5,585	NA	409	545
Total	1,930,461	2,069,078	2,035,805	153,798	R144,597	R174,738

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	
	April	March	February	January	Total	December
Alabama	2,713	3,522	4,010	4,529	34,239	3,740
Alaska	1,911	2,251	2,340	2,883	26,795	3,134
Arizona	3,013	3,548	3,534	4,129	30,178	3,386
Arkansas	1,728	3,843	4,075	4,781	29,518	3,996
California	23,269	19,321	28,787	30,457	254,440	26,174
Colorado	R6,738	R9,008	R9,159	R10,507	R66,314	9,405
Connecticut	4,294	4,999	5,540	5,757	42,370	5,776
Delaware	556	829	899	935	6,547	864
District of Columbia	1,830	2,032	2,382	2,542	R17,931	2,293
Florida	3,701	3,961	3,984	4,152	37,644	3,833
Georgia	4,882	7,391	8,120	8,471	57,474	7,991
Hawaii	174	172	179	196	2,174	185
Idaho	1,077	1,423	1,570	1,977	11,435	1,657
Illinois	15,326	22,556	22,455	30,533	205,941	27,467
Indiana	NA	11,063	10,460	12,876	98,622	13,318
Iowa	3,605	7,584	5,962	7,938	50,218	7,166
Kansas	3,381	8,014	6,177	7,378	52,331	6,777
Kentucky	2,490	4,636	5,053	5,668	39,046	6,217
Louisiana	2,048	5,056	4,998	4,511	24,451	2,987
Maine	255	332	342	422	2,713	375
Maryland	3,668	6,091	6,474	6,659	53,255	6,365
Massachusetts	8,771	11,570	12,943	13,716	105,883	11,544
Michigan	15,784	22,837	23,664	25,919	197,276	26,512
Minnesota	5,685	11,726	11,133	15,257	R93,488	12,420
Mississippi	NA	NA	3,310	NA	R21,784	2,928
Missouri	5,545	8,978	9,467	11,144	70,044	9,543
Montana	1,029	1,527	1,459	2,178	13,932	2,005
Nebraska	2,786	4,027	4,237	4,903	42,107	4,247
Nevada	2,207	2,642	2,575	3,078	21,822	2,567
New Hampshire	710	869	1,051	1,167	7,408	1,010
New Jersey	11,748	19,826	18,713	20,200	147,228	20,186
New Mexico	2,281	3,211	3,243	4,509	26,151	3,956
New York	20,716	NA	NA	NA	R344,641	36,071
North Carolina	3,326	4,879	5,791	6,495	38,942	5,608
North Dakota	953	1,372	1,434	1,753	11,392	1,374
Ohio	13,211	21,443	23,991	27,046	184,883	25,219
Oklahoma	4,018	6,347	6,859	7,969	43,776	5,673
Oregon	NA	NA	3,308	3,889	25,380	3,341
Pennsylvania	NA	17,790	19,674	21,571	147,290	20,160
Rhode Island	NA	1,492	1,620	1,786	12,303	1,413
South Carolina	1,732	2,440	2,781	2,955	19,874	2,671
South Dakota	806	1,335	1,292	1,621	10,426	1,312
Tennessee	4,714	7,027	6,063	NA	57,464	8,120
Texas	14,839	20,104	20,826	24,280	206,455	23,104
Utah	2,749	3,787	4,235	4,544	31,130	5,152
Vermont	281	381	436	487	3,051	403
Virginia	5,338	7,878	8,398	8,673	R62,318	R9,437
Washington	NA	NA	NA	NA	NA	NA
West Virginia	2,235	3,146	R3,310	3,564	26,927	3,447
Wisconsin	6,632	11,019	9,845	12,688	92,418	12,954
Wyoming	783	1,128	1,288	NA	12,291	1,092
Total	R253,741	R368,607	R389,231	R445,750	R3,285,463	R414,894

See footnotes at end of table.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998

(Million Cubic Feet) — Continued

State	1997					
	November	October	September	August	July	June
Alabama	2,540	2,107	2,375	3,087	3,497	1,779
Alaska	2,647	2,564	1,588	1,336	1,398	1,422
Arizona	2,273	1,754	1,839	1,770	1,939	1,976
Arkansas	2,726	1,352	1,133	1,132	1,133	1,219
California	21,235	19,673	18,468	18,728	17,971	16,572
Colorado	R5,936	2,443	2,281	2,005	2,244	2,860
Connecticut	3,838	2,502	1,560	1,754	2,136	2,227
Delaware	520	282	233	183	206	281
District of Columbia	1,354	899	852	853	783	951
Florida	3,203	2,687	2,561	2,651	2,578	2,917
Georgia	6,146	3,654	2,811	2,626	2,709	2,800
Hawaii	251	171	166	160	175	170
Idaho	982	585	411	356	373	399
Illinois	23,244	12,431	6,546	5,935	6,084	6,145
Indiana	9,608	5,146	2,667	2,551	2,428	6,344
Iowa	5,681	3,031	1,358	1,110	1,306	1,262
Kansas	4,780	2,508	2,087	2,685	3,283	2,078
Kentucky	4,223	2,429	1,268	967	1,176	1,181
Louisiana	1,988	1,330	1,250	1,195	1,350	1,408
Maine	289	176	91	78	72	92
Maryland	8,614	2,917	2,271	2,226	2,378	2,305
Massachusetts	8,664	7,063	5,488	5,776	5,555	7,151
Michigan	19,536	10,084	6,211	5,889	2,278	7,664
Minnesota	10,831	5,320	R2,396	2,522	2,496	3,004
Mississippi	2,026	1,157	R871	R1,261	R1,202	1,176
Missouri	6,200	2,736	2,196	2,054	2,151	2,457
Montana	1,299	793	423	383	363	451
Nebraska	3,487	2,351	1,868	2,896	5,042	1,728
Nevada	1,797	1,270	1,192	1,145	1,097	1,409
New Hampshire	703	411	249	217	216	286
New Jersey	13,739	7,215	6,062	5,793	6,094	7,027
New Mexico	2,423	1,160	1,020	997	984	960
New York	27,233	21,384	18,287	R19,804	23,940	24,103
North Carolina	3,490	2,057	1,751	1,629	1,548	1,770
North Dakota	1,163	588	344	291	305	343
Ohio	17,840	9,823	5,006	4,408	4,153	8,743
Oklahoma	3,390	2,126	1,659	1,626	1,649	1,517
Oregon	2,016	1,363	1,023	912	1,007	1,067
Pennsylvania	14,246	9,659	5,298	4,356	4,680	5,554
Rhode Island	1,212	637	460	399	431	537
South Carolina	1,771	1,176	1,904	1,019	997	1,214
South Dakota	1,022	549	334	250	246	283
Tennessee	5,216	2,846	2,120	2,064	2,090	R2,496
Texas	18,448	14,187	15,035	15,234	15,315	11,993
Utah	3,187	2,020	1,124	943	927	946
Vermont	282	184	108	80	80	108
Virginia	5,455	3,489	2,392	2,449	2,370	2,681
Washington	NA	NA	NA	NA	NA	NA
West Virginia	2,904	1,576	1,195	1,292	1,044	1,181
Wisconsin	10,586	5,664	2,901	2,961	2,769	2,868
Wyoming	1,065	633	372	345	943	633
Total	R317,559	193,542	R145,900	R144,490	R149,584	160,656

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
	May	April	March	February	January	Total
Alabama	2,020	2,194	2,613	4,063	4,224	29,002
Alaska	1,806	2,215	2,848	2,518	3,320	27,315
Arizona	2,141	2,563	3,153	3,525	3,858	29,102
Arkansas	1,653	2,172	3,149	4,730	5,123	31,009
California	18,994	21,091	23,612	26,107	25,816	236,332
Colorado	R4,699	R6,240	R8,111	R9,927	R10,165	68,931
Connecticut	2,586	4,055	4,797	5,346	5,792	39,818
Delaware	420	628	858	1,046	1,025	6,695
District of Columbia	1,373	R1,739	2,183	2,316	2,335	16,353
Florida	2,902	3,017	3,307	3,862	4,126	41,898
Georgia	3,216	4,152	4,864	7,924	8,582	61,377
Hawaii	166	174	180	188	188	2,132
Idaho	686	1,041	1,345	1,784	1,816	11,540
Illinois	10,664	16,797	23,444	30,059	37,125	218,086
Indiana	9,965	7,610	10,465	12,807	15,715	87,568
Iowa	2,376	3,976	5,758	7,056	10,137	54,576
Kansas	2,798	4,004	6,012	8,130	7,190	57,231
Kentucky	1,890	2,913	4,093	5,483	7,206	40,980
Louisiana	1,492	1,837	2,463	3,574	3,575	25,769
Maine	152	231	378	348	433	2,566
Maryland	2,735	4,420	5,563	6,380	7,080	45,891
Massachusetts	6,266	9,068	11,630	13,854	13,824	96,192
Michigan	13,205	19,207	25,654	28,433	32,603	201,431
Minnesota	5,155	8,361	12,000	13,403	15,580	98,580
Mississippi	1,237	1,533	2,106	3,062	3,226	22,230
Missouri	3,569	5,786	7,970	12,828	12,556	72,833
Montana	714	1,342	1,652	1,947	2,558	14,836
Nebraska	2,430	3,190	4,117	4,845	5,907	40,833
Nevada	1,666	1,896	2,442	2,629	2,711	20,469
New Hampshire	472	739	954	1,079	1,073	7,099
New Jersey	9,816	13,645	21,543	14,211	21,897	150,432
New Mexico	1,766	1,862	2,935	3,938	4,151	26,544
New York	25,257	31,231	36,768	41,464	39,099	253,129
North Carolina	2,401	2,973	3,806	5,850	6,059	40,467
North Dakota	619	1,095	1,408	1,879	1,982	12,165
Ohio	11,339	15,190	23,205	28,174	31,783	190,195
Oklahoma	2,617	3,571	5,041	7,183	7,724	46,284
Oregon	1,574	2,304	3,076	3,686	4,011	25,622
Pennsylvania	10,354	13,007	17,888	19,583	22,506	154,677
Rhode Island	892	1,144	1,740	1,744	1,694	12,301
South Carolina	1,278	1,222	1,816	2,409	2,397	20,329
South Dakota	604	940	1,235	1,607	2,045	11,602
Tennessee	3,242	4,276	R6,422	9,488	9,084	58,513
Texas	12,860	13,790	19,967	21,284	25,238	178,573
Utah	1,268	2,675	3,363	4,473	5,051	29,666
Vermont	160	296	429	444	477	2,825
Virginia	4,381	5,762	7,212	8,021	8,670	59,294
Washington	4,098	4,100	5,627	6,275	7,474	48,252
West Virginia	1,693	2,222	2,816	3,652	3,903	28,030
Wisconsin	5,507	7,225	10,989	12,071	15,922	93,868
Wyoming	1,065	1,445	1,593	1,423	1,681	9,735
Total	R212,242	R274,168	R366,599	R428,114	477,715	3,161,176

R = Revised Data.
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		
				July	June	May
Alabama	120,357	117,312	116,671	16,167	16,737	17,308
Alaska	44,586	44,476	42,462	6,542	6,251	5,854
Arizona	16,107	15,549	15,273	2,307	2,034	2,313
Arkansas	85,843	85,594	82,256	11,321	11,102	11,839
California	413,365	411,959	395,221	59,188	53,880	66,080
Colorado	NA	44,059	49,338	NA	NA	5,649
Connecticut	19,557	20,701	17,795	2,271	2,225	2,546
Delaware	9,385	8,607	8,244	1,097	1,160	1,256
District of Columbia	0	0	0	0	0	0
Florida	83,170	78,189	80,517	11,384	11,469	11,765
Georgia	91,863	106,473	103,393	12,768	13,149	12,501
Hawaii	0	0	0	0	0	0
Idaho [a]	20,888	20,468	20,705	2,620	2,672	2,593
Illinois	181,346	190,676	190,827	20,256	20,738	22,462
Indiana	NA	162,173	175,405	NA	R23,465	23,136
Iowa	66,607	63,510	66,261	7,647	7,574	R8,097
Kansas	63,898	68,938	65,753	11,626	9,583	8,483
Kentucky	54,364	56,522	55,727	6,738	6,787	7,022
Louisiana	547,292	569,842	607,461	80,693	73,666	75,577
Maine	1,152	1,371	1,183	153	R184	R168
Maryland	51,507	33,623	28,500	3,779	3,622	4,047
Massachusetts	NA	68,374	55,542	7,812	NA	R7,635
Michigan	190,192	195,298	211,258	18,191	22,705	25,012
Minnesota	59,353	62,195	57,506	7,803	7,847	6,901
Mississippi	NA	45,407	47,882	NA	NA	NA
Missouri	39,816	43,098	43,481	4,672	4,646	4,830
Montana	10,481	10,053	10,085	1,215	1,687	R1,244
Nebraska	23,560	19,493	21,090	5,853	3,076	2,662
Nevada	15,449	16,090	18,978	2,458	2,337	2,455
New Hampshire	3,245	3,432	2,727	438	R431	R473
New Jersey	116,292	121,149	114,821	15,601	14,727	15,723
New Mexico	13,885	14,867	13,486	2,201	1,979	2,027
New York	NA	194,109	186,796	NA	NA	NA
North Carolina	68,410	68,005	57,610	8,561	9,042	9,439
North Dakota	6,145	6,970	4,371	729	771	773
Ohio	NA	205,351	209,942	NA	24,008	25,977
Oklahoma	111,338	123,739	115,385	16,672	16,280	13,793
Oregon	NA	47,504	46,233	NA	6,767	7,015
Pennsylvania	137,631	142,202	144,607	17,111	17,926	18,161
Rhode Island	NA	15,703	11,176	2,121	2,042	NA
South Carolina	60,843	60,134	53,167	7,613	8,464	8,713
South Dakota	3,238	4,342	4,352	416	307	697
Tennessee	NA	NA	71,164	11,939	11,714	11,710
Texas	1,117,786	1,193,994	1,245,368	181,812	150,210	154,540
Utah	28,338	25,564	24,455	3,424	3,678	3,668
Vermont	1,254	1,320	1,071	153	152	164
Virginia	52,565	47,879	48,746	9,466	8,290	6,375
Washington	NA	NA	62,905	NA	NA	NA
West Virginia	NA	29,864	28,298	NA	NA	NA
Wisconsin	82,791	91,975	88,379	7,967	9,204	9,508
Wyoming	NA	27,729	28,637	NA	4,119	4,293
Total	4,962,940	5,129,804	5,152,510	683,162	R640,744	R667,649

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	
	April	March	February	January	Total	December
Alabama	17,013	18,208	16,441	18,483	R204,114	18,755
Alaska	6,455	6,878	6,152	6,454	73,863	6,876
Arizona	2,281	2,413	2,226	2,533	27,889	2,688
Arkansas	12,765	13,363	12,114	13,339	147,046	13,202
California	55,492	47,185	67,501	64,039	731,180	63,859
Colorado	6,278	6,323	6,388	6,949	73,846	R7,088
Connecticut	2,782	3,183	3,149	3,402	34,461	3,422
Delaware	1,348	1,477	1,443	1,604	14,841	1,580
District of Columbia	0	0	0	0	0	0
Florida	11,608	12,960	11,053	12,931	132,636	11,487
Georgia	12,866	13,434	13,335	13,808	170,988	12,800
Hawaii	0	0	0	0	0	0
Idaho [a]	3,047	3,130	3,482	3,344	35,089	3,159
Illinois	26,752	29,211	28,719	33,208	316,352	30,515
Indiana	NA	27,772	25,847	28,857	282,466	28,684
Iowa	10,660	11,792	9,516	11,321	111,430	10,686
Kansas	8,011	8,686	7,811	9,699	R112,652	R10,938
Kentucky	7,543	8,884	7,550	9,839	97,555	9,442
Louisiana	77,970	81,959	74,500	82,928	983,217	81,573
Maine	122	159	164	202	2,525	216
Maryland	4,407	11,276	10,677	13,699	61,353	13,713
Massachusetts	8,209	8,759	8,443	9,923	R110,542	9,185
Michigan	26,873	32,052	31,380	33,980	326,414	31,551
Minnesota	8,548	9,039	10,044	9,171	107,280	10,111
Mississippi	NA	NA	6,814	NA	77,576	7,043
Missouri	5,473	6,788	6,360	7,047	69,623	6,701
Montana	1,521	1,481	1,449	1,884	18,122	2,064
Nebraska	2,543	3,043	2,902	3,481	32,514	3,723
Nevada	2,453	2,174	1,979	1,593	27,795	2,213
New Hampshire	457	468	498	481	5,732	468
New Jersey	16,455	17,152	17,655	18,980	R204,854	17,569
New Mexico	2,049	1,822	1,823	1,984	24,853	2,146
New York	22,542	26,423	NA	NA	R320,796	27,393
North Carolina	9,366	10,846	10,404	10,752	R115,548	10,426
North Dakota	898	1,017	948	1,010	11,151	929
Ohio	29,362	32,257	31,779	35,912	343,764	32,492
Oklahoma	14,388	16,578	17,131	16,497	205,823	16,600
Oregon	NA	NA	8,744	9,760	R90,667	9,760
Pennsylvania	19,808	21,699	20,811	22,115	235,913	20,983
Rhode Island	2,078	2,117	2,011	2,173	24,470	2,179
South Carolina	8,159	9,121	9,129	9,645	103,578	9,344
South Dakota	279	474	500	565	6,961	606
Tennessee	12,020	14,188	12,628	NA	NA	12,466
Texas	153,724	159,503	148,544	169,452	NA	174,230
Utah	4,480	4,273	4,080	4,735	44,290	4,504
Vermont	164	194	205	223	2,337	235
Virginia	7,746	6,497	7,444	6,747	83,965	7,773
Washington	NA	NA	NA	NA	NA	NA
West Virginia	4,099	4,553	1,696	4,510	51,114	4,610
Wisconsin	11,658	14,819	13,298	16,337	152,545	14,848
Wyoming	3,344	NA	NA	5,156	47,095	4,102
Total	693,905	748,773	730,160	798,548	R8,745,481	R789,696

See footnotes at end of table.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998

(Million Cubic Feet) — Continued

State	1997					
	November	October	September	August	July	June
Alabama	17,910	17,161	16,150	16,827	R14,833	16,253
Alaska	5,571	6,313	4,233	6,395	5,968	5,915
Arizona	2,360	2,335	2,582	2,375	2,246	2,170
Arkansas	12,751	12,471	11,035	11,994	11,785	11,598
California	61,447	60,283	65,816	67,815	65,810	58,874
Colorado	R6,470	5,148	4,680	6,402	4,907	6,030
Connecticut	2,838	2,588	2,362	2,550	2,440	2,441
Delaware	1,327	1,202	1,107	1,017	1,106	1,156
District of Columbia	0	0	0	0	0	0
Florida	10,945	10,925	10,734	10,355	11,071	10,526
Georgia	12,468	12,817	12,855	13,575	12,874	12,448
Hawaii	0	0	0	0	0	0
Idaho [a]	3,109	3,226	2,756	2,371	2,723	2,724
Illinois	27,702	24,750	22,004	20,706	22,431	22,272
Indiana	26,650	23,332	21,152	20,475	19,853	17,289
Iowa	10,199	9,886	8,468	8,680	7,768	7,823
Kansas	8,587	8,210	7,655	8,324	12,351	8,854
Kentucky	8,835	8,625	7,052	7,079	6,526	6,669
Louisiana	80,707	84,368	82,780	83,946	80,979	82,324
Maine	296	243	208	191	178	197
Maryland	263	4,308	4,427	5,019	4,767	5,126
Massachusetts	8,316	8,095	7,625	8,946	8,930	10,487
Michigan	27,735	24,470	23,655	23,705	16,029	25,327
Minnesota	10,179	9,139	7,244	8,412	8,176	7,733
Mississippi	7,238	6,572	R5,248	R6,069	R6,271	6,054
Missouri	6,057	5,106	4,322	4,338	4,492	4,810
Montana	1,850	1,612	1,290	1,253	1,093	1,176
Nebraska	1,923	2,697	2,050	2,627	1,207	2,484
Nevada	2,214	2,421	2,426	2,430	2,294	2,272
New Hampshire	442	499	—	451	422	434
New Jersey	15,519	16,683	16,219	17,715	16,450	15,822
New Mexico	2,019	1,881	1,982	1,957	2,097	2,041
New York	27,674	21,794	26,738	R23,087	R24,781	25,785
North Carolina	9,608	9,568	9,017	R8,924	9,102	9,195
North Dakota	869	812	754	817	625	707
Ohio	30,107	26,986	24,750	24,078	22,725	29,566
Oklahoma	15,704	15,473	16,687	17,620	16,618	17,536
Oregon	8,798	R8,250	8,041	8,313	7,289	5,557
Pennsylvania	21,509	17,230	16,783	17,206	16,881	16,359
Rhode Island	2,148	1,509	1,440	1,491	2,159	2,265
South Carolina	8,702	8,239	8,883	8,277	7,943	8,451
South Dakota	618	425	470	499	322	492
Tennessee	R11,754	11,242	R10,682	13,153	10,831	R11,422
Texas	162,492	165,162	NA	172,857	166,725	165,999
Utah	4,129	4,228	2,497	3,369	3,482	3,408
Vermont	226	224	176	157	144	146
Virginia	6,522	5,914	6,951	8,927	8,064	5,864
Washington	NA	NA	NA	NA	NA	NA
West Virginia	4,353	4,150	4,032	4,106	3,991	3,905
Wisconsin	14,202	11,931	10,069	9,521	9,041	9,458
Wyoming	4,328	3,966	3,299	3,672	3,234	3,858
Total	R726,499	R704,297	R684,512	R710,674	R680,132	687,309

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
	May	April	March	February	January	Total
Alabama	17,284	18,182	16,885	16,341	17,534	201,414
Alaska	5,619	6,443	6,993	6,448	7,090	75,616
Arizona	2,332	2,089	2,351	2,132	2,228	26,979
Arkansas	11,903	12,008	12,361	12,195	13,744	141,300
California	58,119	57,480	57,065	55,756	58,855	693,539
Colorado	6,225	5,708	R7,833	R6,664	6,691	83,640
Connecticut	2,870	3,308	3,521	3,031	3,088	32,451
Delaware	1,308	1,354	1,249	1,192	1,243	14,164
District of Columbia	0	0	0	0	0	0
Florida	11,522	11,739	11,318	10,645	11,369	136,722
Georgia	16,828	16,740	16,153	16,385	15,044	181,768
Hawaii	0	0	0	0	0	0
Idaho [a]	2,673	3,180	3,200	2,802	3,166	34,577
Illinois	25,139	26,550	29,761	31,673	32,850	322,275
Indiana	19,839	23,608	26,703	25,597	29,284	289,219
Iowa	8,516	9,081	9,800	9,785	10,738	113,995
Kansas	R8,666	R9,322	R9,353	R8,635	R11,757	110,294
Kentucky	7,704	7,769	8,408	8,964	10,483	94,481
Louisiana	83,780	82,622	78,729	78,331	83,077	1,048,432
Maine	226	247	182	162	180	2,190
Maryland	4,734	4,495	5,528	4,661	4,312	50,022
Massachusetts	R8,051	10,392	10,520	10,375	9,619	100,015
Michigan	27,343	27,854	32,629	32,134	33,982	347,043
Minnesota	7,622	8,544	10,448	10,202	9,471	102,471
Mississippi	5,804	6,535	6,721	6,686	7,337	80,887
Missouri	4,987	7,149	5,099	9,463	7,097	71,533
Montana	1,365	1,178	1,695	1,634	1,913	18,103
Nebraska	2,580	3,404	3,426	3,257	3,135	36,125
Nevada	2,528	2,117	2,373	2,144	2,362	32,606
New Hampshire	553	632	570	411	411	4,916
New Jersey	16,773	16,587	18,406	R17,894	19,217	200,933
New Mexico	2,123	1,935	1,944	2,119	2,608	22,858
New York	25,745	27,455	30,706	31,100	28,538	322,661
North Carolina	9,687	10,561	10,341	9,950	9,168	104,124
North Dakota	911	867	1,574	1,253	1,033	7,911
Ohio	26,644	27,049	30,688	32,631	36,048	347,149
Oklahoma	17,339	17,335	17,207	18,790	18,914	201,024
Oregon	R6,076	6,408	6,846	6,722	8,606	87,754
Pennsylvania	18,780	21,556	22,001	23,241	23,384	243,499
Rhode Island	2,401	2,514	2,241	1,993	2,131	25,829
South Carolina	9,122	9,260	9,152	8,054	8,152	95,493
South Dakota	531	624	705	792	877	7,182
Tennessee	11,767	12,548	NA	12,789	11,698	126,545
Texas	166,759	164,032	182,742	160,683	187,054	2,138,155
Utah	3,633	3,757	3,777	3,698	3,809	42,213
Vermont	218	200	234	197	181	1,953
Virginia	7,452	6,449	4,162	8,056	7,833	84,357
Washington	8,513	8,189	9,259	9,170	9,112	114,236
West Virginia	4,439	6,731	2,577	3,836	4,386	49,997
Wisconsin	11,310	13,597	15,650	14,948	17,970	149,517
Wyoming	4,125	3,864	3,795	3,792	5,060	50,253
Total	R710,469	R731,246	R767,399	R749,412	R803,836	8,870,422

[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.

R = Revised Data.

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[a] Consumers, by State, 1996-1998

(Million Cubic Feet)

State	YTD 1998	YTD 1997	YTD 1996	1998		
				July	June	May
Alabama	13,877	5,146	3,691	5,072	4,764	2,844
Alaska	16,467	20,389	18,325	2,154	2,093	2,411
Arizona	13,061	10,773	9,325	6,792	1,986	674
Arkansas	23,604	13,191	22,628	7,084	6,676	5,479
California	141,566	188,759	155,994	26,022	15,338	13,745
Colorado	5,130	2,677	2,709	1,739	901	656
Connecticut	6,102	8,704	3,334	1,582	1,709	1,386
Delaware	5,096	12,093	12,884	1,648	1,196	900
District of Columbia	0	0	0	0	0	0
Florida	160,594	179,177	156,877	31,976	33,192	26,827
Georgia	11,600	3,501	3,711	5,455	4,958	746
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	38,566	25,704	15,811	7,707	7,387	7,068
Indiana	5,971	3,645	2,927	2,084	1,878	1,187
Iowa	3,446	2,604	2,236	965	774	697
Kansas	19,086	13,099	14,442	8,026	5,333	3,207
Kentucky	3,230	1,154	1,221	650	950	1,017
Louisiana	173,618	158,831	151,444	43,685	38,810	31,812
Maine	0	0	0	0	0	0
Maryland	5,673	8,007	4,054	2,186	1,396	932
Massachusetts	12,946	32,346	15,547	1,407	2,169	2,666
Michigan	26,973	18,109	17,749	4,573	5,093	4,212
Minnesota	3,904	4,506	2,784	1,410	994	804
Mississippi	44,423	38,954	45,741	10,889	10,630	8,717
Missouri	7,732	4,295	3,539	3,753	2,440	952
Montana	251	256	213	80	26	89
Nebraska	2,691	1,564	1,678	1,046	719	634
Nevada	28,136	27,909	26,436	8,189	4,036	3,761
New Hampshire	98	331	2	37	35	0
New Jersey	19,498	19,959	15,222	7,107	4,303	3,926
New Mexico	23,444	18,751	16,567	4,218	4,019	4,948
New York	118,785	124,048	66,899	29,304	24,084	18,926
North Carolina	6,971	2,795	1,995	2,042	3,789	1,026
North Dakota	0	1	1	0	0	0
Ohio	4,107	2,149	1,597	1,306	1,102	1,005
Oklahoma	90,545	64,582	80,109	26,857	20,792	13,893
Oregon	10,192	859	2,339	3,008	835	176
Pennsylvania	5,190	5,150	2,725	1,409	2,013	621
Rhode Island	13,342	14,774	13,378	2,238	1,453	1,943
South Carolina	3,526	1,708	734	1,239	1,413	687
South Dakota	1,452	1,195	351	627	315	366
Tennessee	3,041	1,098	252	1,407	1,202	432
Texas	711,652	555,481	642,813	174,175	153,171	117,366
Utah	1,866	1,592	1,599	1,000	141	138
Vermont	154	20	10	15	7	12
Virginia	10,608	7,423	6,021	2,970	2,254	2,158
Washington	1,438	125	601	621	33	14
West Virginia	230	164	118	53	46	30
Wisconsin	10,177	12,570	3,289	3,064	2,557	2,282
Wyoming	238	52	51	5	10	6
Total	1,810,301	1,620,221	1,551,971	448,875	379,024	293,378

See footnotes at end of table.

Table 18. Natural Gas Deliveries to Electric Utility[a] Consumers, by State, 1996-1998

(Million Cubic Feet) — Continued

State	1998				1997	
	April	March	February	January	Total	December
Alabama	296	383	157	362	9,996	87
Alaska	2,266	2,382	2,307	2,852	33,511	3,023
Arizona	1,127	718	804	962	23,384	752
Arkansas	2,283	1,521	272	289	24,802	294
California	18,055	23,374	18,278	26,755	377,967	27,218
Colorado	586	416	451	381	5,537	451
Connecticut	157	23	109	1,136	16,762	569
Delaware	548	475	74	256	16,090	700
District of Columbia	0	0	0	0	0	0
Florida	15,860	18,020	15,637	19,082	296,940	21,716
Georgia	98	183	57	102	7,341	49
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	4,835	4,022	3,535	4,014	44,606	5,019
Indiana	205	426	104	87	5,141	152
Iowa	298	245	202	264	4,123	207
Kansas	594	935	446	545	25,822	1,993
Kentucky	107	282	138	86	2,194	158
Louisiana	18,082	16,198	9,860	15,171	277,431	16,810
Maine	0	0	0	0	0	0
Maryland	373	371	223	191	11,004	209
Massachusetts	1,579	1,565	1,320	2,241	51,486	2,419
Michigan	3,602	3,758	2,496	3,239	33,288	3,028
Minnesota	268	204	105	119	6,097	112
Mississippi	4,400	3,921	2,775	3,092	73,081	4,576
Missouri	210	161	80	135	7,464	311
Montana	15	39	0	1	420	21
Nebraska	176	59	21	37	2,656	34
Nevada	3,549	2,446	3,128	3,027	51,776	3,651
New Hampshire	0	0	26	0	564	31
New Jersey	1,380	1,835	419	528	29,528	553
New Mexico	3,448	3,092	1,802	1,918	33,376	1,999
New York	9,076	10,397	10,274	16,724	217,493	14,715
North Carolina	12	91	1	11	4,511	3
North Dakota	0	0	0	0	1	0
Ohio	178	307	96	114	3,485	122
Oklahoma	7,944	9,394	5,205	6,460	128,822	11,407
Oregon	2,266	1,335	1,102	1,471	10,686	1,641
Pennsylvania	260	406	257	225	7,368	365
Rhode Island	1,606	1,889	1,599	2,613	27,162	2,604
South Carolina	37	106	11	33	2,731	35
South Dakota	33	42	6	63	1,730	83
Tennessee	0	0	0	0	1,635	0
Texas	83,043	80,475	49,071	54,351	1,056,582	69,623
Utah	135	156	144	153	4,079	178
Vermont	6	3	47	65	36	4
Virginia	699	1,197	476	853	11,571	918
Washington	152	121	5	492	2,619	187
West Virginia	22	29	29	21	219	11
Wisconsin	395	1,108	353	418	15,772	467
Wyoming	8	3	200	7	95	15
Total	190,266	194,113	133,700	170,946	2,968,985	198,522

See footnotes at end of table.

Table 18. Natural Gas Deliveries to Electric Utility[a] Consumers, by State, 1996-1998

(Million Cubic Feet) — Continued

State	1997					
	November	October	September	August	July	June
Alabama	296	846	1,247	2,373	2,898	930
Alaska	2,676	2,689	2,296	2,439	2,734	2,579
Arizona	400	1,544	5,106	4,809	4,114	1,931
Arkansas	375	2,295	3,377	5,270	7,484	3,443
California	22,372	35,085	56,405	48,127	43,831	26,461
Colorado	385	642	667	716	703	337
Connecticut	1,485	1,873	1,769	2,362	2,474	1,400
Delaware	682	356	667	1,592	2,000	1,096
District of Columbia	0	0	0	0	0	0
Florida	14,283	21,226	26,875	33,664	33,336	31,395
Georgia	124	308	1,160	2,200	2,592	440
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	3,906	3,796	2,374	3,806	7,977	4,586
Indiana	234	312	268	530	1,863	796
Iowa	251	457	234	371	838	393
Kansas	2,480	2,646	2,113	3,491	6,349	3,142
Kentucky	190	201	181	312	525	170
Louisiana	14,557	22,089	30,559	34,584	39,937	29,959
Maine	0	0	0	0	0	0
Maryland	364	750	623	1,051	3,379	1,856
Massachusetts	3,186	3,140	4,800	5,595	6,031	6,223
Michigan	3,135	3,243	2,921	2,851	3,675	2,753
Minnesota	139	382	289	669	1,134	684
Mississippi	4,062	5,433	8,119	11,937	14,001	8,382
Missouri	340	557	749	1,212	2,789	1,022
Montana	30	40	27	46	115	8
Nebraska	77	354	263	364	878	218
Nevada	1,804	4,368	6,212	7,833	7,257	5,269
New Hampshire	24	54	54	70	11	319
New Jersey	1,341	2,087	1,349	4,239	8,143	4,610
New Mexico	2,225	3,227	2,835	4,338	4,022	2,922
New York	12,693	16,569	19,701	29,767	35,237	28,198
North Carolina	25	507	433	747	1,887	811
North Dakota	0	0	0	0	1	0
Ohio	246	397	268	304	1,073	596
Oklahoma	8,236	10,068	14,026	20,504	20,851	12,246
Oregon	920	2,368	2,367	2,531	306	126
Pennsylvania	212	301	418	923	2,722	886
Rhode Island	2,490	2,505	2,365	2,424	2,003	2,184
South Carolina	112	240	212	422	921	621
South Dakota	90	45	88	228	581	360
Tennessee	0	209	0	328	843	255
Texas	72,461	90,971	126,102	141,943	144,449	103,279
Utah	174	135	912	1,087	824	25
Vermont	2	4	2	4	4	3
Virginia	381	789	583	1,476	2,536	1,350
Washington	220	164	1,191	731	25	1
West Virginia	2	17	15	9	23	40
Wisconsin	400	743	697	895	2,168	1,686
Wyoming	15	6	5	3	4	13
Total	180,102	246,040	332,925	391,176	427,549	296,004

See footnotes at end of table.

Table 18. Natural Gas Deliveries to Electric Utility[a] Consumers, by State, 1996-1998

(Million Cubic Feet) — Continued

State	1997					1996
	May	April	March	February	January	Total
Alabama	482	386	168	156	125	6,146
Alaska	2,902	2,923	3,593	2,438	3,221	31,767
Arizona	2,740	723	588	358	319	19,248
Arkansas	575	606	250	214	619	33,988
California	37,116	25,337	24,348	14,189	17,478	318,035
Colorado	393	264	326	259	395	5,511
Connecticut	1,169	1,260	967	1,238	197	10,456
Delaware	1,063	1,841	2,279	2,068	1,746	23,370
District of Columbia	0	0	0	0	0	0
Florida	29,651	28,108	28,965	17,145	10,578	283,557
Georgia	203	177	30	18	42	4,674
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	2,897	4,921	2,474	1,661	1,188	25,863
Indiana	232	221	220	151	162	4,330
Iowa	270	254	383	218	247	3,491
Kansas	1,237	847	558	413	553	22,607
Kentucky	21	117	130	80	111	1,836
Louisiana	25,574	19,124	15,862	13,616	14,761	252,139
Maine	0	0	0	0	0	0
Maryland	725	1,478	336	47	185	8,455
Massachusetts	3,821	6,630	5,273	2,793	1,575	45,037
Michigan	2,748	2,263	2,413	2,356	1,901	32,559
Minnesota	594	619	695	123	656	5,301
Mississippi	4,685	3,033	2,930	2,716	3,207	83,251
Missouri	95	173	77	52	85	5,223
Montana	7	15	18	27	64	470
Nebraska	108	172	81	77	31	2,351
Nevada	5,215	3,517	3,820	1,362	1,468	46,766
New Hampshire	0	0	0	0	0	3
New Jersey	1,478	1,868	2,091	1,023	746	25,825
New Mexico	2,443	2,547	2,768	1,990	2,059	29,969
New York	16,938	11,475	14,741	12,486	4,972	142,688
North Carolina	61	26	1	9	0	2,381
North Dakota	0	0	0	0	0	3
Ohio	106	107	71	71	125	2,867
Oklahoma	6,710	7,023	6,677	4,843	6,231	136,436
Oregon	3	0	171	0	253	14,015
Pennsylvania	294	326	324	316	281	7,239
Rhode Island	2,445	1,854	2,179	2,021	2,088	25,071
South Carolina	67	72	12	4	11	1,206
South Dakota	85	85	39	19	26	725
Tennessee	0	0	0	0	0	572
Texas	73,212	59,300	60,371	54,877	59,992	1,039,155
Utah	147	143	155	137	161	3,428
Vermont	3	3	3	2	2	24
Virginia	670	1,497	1,133	47	190	10,275
Washington	86	5	0	2	6	6,590
West Virginia	33	9	23	23	12	205
Wisconsin	1,851	1,768	2,154	1,773	1,169	7,303
Wyoming	6	6	6	7	9	87
Total	231,162	193,124	189,704	143,428	139,250	2,732,496

[a] 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		
				July	June	May
Alabama	190,849	175,375	182,710	23,472	24,005	26,256
Alaska	83,350	89,116	86,693	10,365	10,247	10,881
Arizona	76,102	66,786	61,201	12,051	7,467	7,574
Arkansas	NA	146,829	158,842	21,804	NA	R20,481
California	1,095,501	1,059,438	974,704	137,488	120,557	140,353
Colorado	NA	166,806	173,811	NA	NA	18,619
Connecticut	77,618	83,352	77,579	7,337	7,280	7,933
Delaware	24,195	31,600	33,057	3,131	2,833	2,925
District of Columbia	21,097	22,333	22,774	1,242	1,348	1,720
Florida	278,989	289,187	275,322	46,698	48,225	42,720
Georgia	213,281	209,404	228,967	23,937	24,018	20,054
Hawaii	1,585	1,553	1,624	214	228	216
Idaho	39,339	38,108	37,969	3,429	3,876	4,186
Illinois	585,488	666,773	685,870	43,411	46,356	51,280
Indiana	NA	343,419	356,573	NA	R31,509	32,851
Iowa	145,439	151,567	160,530	11,588	11,021	R13,167
Kansas	165,729	165,705	171,287	23,349	18,793	17,585
Kentucky	115,078	122,645	128,403	9,770	10,292	11,505
Louisiana	NA	778,958	817,689	127,951	NA	111,328
Maine	3,376	3,714	3,458	251	R305	R335
Maryland	133,140	122,968	120,325	9,982	9,612	10,503
Massachusetts	NA	243,852	211,655	16,115	NA	R21,846
Michigan	541,176	600,139	636,826	35,339	43,866	51,642
Minnesota	184,516	213,120	215,562	13,777	14,579	14,749
Mississippi	NA	116,034	130,618	NA	NA	NA
Missouri	170,543	182,940	191,413	13,305	12,566	13,741
Montana	31,162	32,920	33,717	2,176	3,638	R2,838
Nebraska	75,343	81,983	80,890	8,983	5,849	6,946
Nevada	79,014	74,623	73,002	12,929	9,447	9,976
New Hampshire	12,516	13,324	12,335	871	R999	R1,226
New Jersey	356,138	378,720	383,518	33,937	31,639	41,616
New Mexico	75,954	71,481	68,047	8,239	7,214	9,770
New York	NA	817,858	NA	NA	NA	NA
North Carolina	138,630	130,820	128,788	13,149	15,680	14,761
North Dakota	19,666	22,872	20,560	1,249	1,374	1,770
Ohio	NA	568,937	591,732	NA	38,783	45,665
Oklahoma	281,724	267,100	281,170	47,000	40,753	33,071
Oregon	NA	87,673	87,048	NA	10,671	10,944
Pennsylvania	NA	415,052	438,183	28,410	31,351	34,776
Rhode Island	NA	51,273	46,336	5,305	4,612	R5,436
South Carolina	96,707	90,077	88,191	10,339	11,503	11,680
South Dakota	18,665	21,597	21,349	1,600	1,209	2,114
Tennessee	NA	NA	160,053	17,040	16,972	17,809
Texas	2,077,795	2,007,336	2,158,818	379,619	320,021	293,705
Utah	82,416	79,846	76,187	6,533	6,931	7,559
Vermont	5,001	5,176	4,770	325	347	409
Virginia	145,629	142,907	145,082	16,601	14,963	14,715
Washington	NA	NA	135,141	NA	NA	NA
West Virginia	NA	69,575	72,487	NA	NA	NA
Wisconsin	217,486	249,173	247,967	16,508	18,703	19,671
Wyoming	NA	44,835	43,009	NA	5,041	5,547
Total	11,713,766	12,119,523	12,242,024	1,409,216	R1,316,381	R1,355,022

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	
	April	March	February	January	Total	December
Alabama	24,632	29,592	29,830	33,062	R296,677	30,497
Alaska	11,872	13,040	12,516	14,428	149,454	15,194
Arizona	10,115	12,001	12,168	14,726	112,612	11,607
Arkansas	19,046	24,796	23,129	23,745	243,839	23,868
California	150,888	151,886	190,777	203,553	1,849,819	186,761
Colorado	R24,720	R31,317	R32,174	R36,697	R257,477	R33,821
Connecticut	10,871	13,255	14,383	16,558	133,522	15,668
Delaware	3,298	4,030	3,776	4,203	46,397	4,350
District of Columbia	3,025	4,064	4,747	4,951	R33,629	4,605
Florida	32,801	36,986	32,925	38,634	481,758	39,073
Georgia	25,861	37,321	39,542	42,548	350,085	40,563
Hawaii	223	221	232	252	2,692	230
Idaho	5,684	6,585	7,284	8,295	61,769	7,188
Illinois	79,927	110,485	107,855	146,173	1,064,270	132,686
Indiana	NA	62,620	57,078	68,688	556,723	68,314
Iowa	20,383	30,256	25,941	33,082	247,128	30,098
Kansas	19,364	29,491	26,029	31,116	R266,773	R31,027
Kentucky	14,076	21,967	21,257	26,211	204,648	26,970
Louisiana	101,836	110,398	97,310	111,920	1,337,463	109,377
Maine	470	610	629	777	6,247	733
Maryland	14,145	27,315	28,426	33,158	202,721	31,215
Massachusetts	29,256	36,408	38,350	42,828	R378,880	38,422
Michigan	77,995	106,043	106,517	119,774	936,410	111,072
Minnesota	21,649	37,306	36,306	46,151	R337,937	40,348
Mississippi	NA	NA	17,463	NA	NA	18,874
Missouri	21,664	33,690	34,874	40,704	275,142	35,563
Montana	4,240	5,477	5,313	7,480	53,469	7,288
Nebraska	9,830	13,612	13,802	16,322	124,391	13,794
Nevada	11,035	11,071	11,832	12,723	126,547	12,298
New Hampshire	1,864	2,183	2,585	2,788	20,653	2,442
New Jersey	47,096	65,242	66,099	70,507	R594,336	68,929
New Mexico	10,367	12,865	11,205	16,294	120,759	16,263
New York	82,436	107,969	115,160	NA	R1,282,146	R127,098
North Carolina	17,721	23,352	25,906	28,061	R211,995	25,256
North Dakota	2,804	3,853	3,944	4,673	R34,299	3,774
Ohio	67,612	98,218	99,776	113,599	891,844	108,921
Oklahoma	32,204	43,151	40,846	44,699	450,167	44,734
Oregon	NA	NA	17,736	21,237	R160,041	19,576
Pennsylvania	NA	72,421	75,456	75,437	653,412	79,331
Rhode Island	NA	7,900	7,949	9,352	82,097	8,705
South Carolina	12,349	15,673	17,097	18,065	151,658	16,684
South Dakota	2,244	3,588	3,464	4,445	32,342	3,736
Tennessee	21,904	31,153	28,238	NA	NA	31,651
Texas	265,438	285,133	248,941	284,937	NA	300,576
Utah	12,218	14,697	16,652	17,827	137,598	20,208
Vermont	716	918	1,085	1,202	8,055	988
Virginia	18,956	25,191	27,386	27,819	R231,569	R29,786
Washington	NA	NA	NA	NA	NA	NA
West Virginia	9,140	12,281	R9,941	13,133	114,609	14,147
Wisconsin	27,884	44,076	39,114	51,531	397,071	47,427
Wyoming	5,317	NA	NA	8,805	71,643	6,697
Total	R1,543,408	R1,947,598	R1,932,621	R2,209,520	R20,012,938	R2,133,875

See footnotes at end of table.

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998

(Million Cubic Feet) — Continued

State	1997					
	November	October	September	August	July	June
Alabama	24,708	21,550	21,022	23,525	[R]22,620	20,567
Alaska	12,577	13,135	8,860	10,572	10,563	10,423
Arizona	7,012	6,690	10,654	9,864	9,318	7,231
Arkansas	19,870	17,463	16,495	19,314	21,430	17,499
California	145,591	139,946	162,462	155,621	154,451	125,478
Colorado	[R]22,597	12,378	10,250	11,625	10,720	13,218
Connecticut	11,787	8,456	6,691	7,568	7,999	7,448
Delaware	3,196	2,090	2,190	2,970	3,505	2,852
District of Columbia	2,768	1,452	1,245	1,226	1,202	1,513
Florida	29,623	35,594	40,869	47,412	47,771	45,693
Georgia	35,202	23,556	20,016	21,344	21,371	19,045
Hawaii	293	209	206	201	218	211
Idaho	5,520	4,450	3,482	3,021	3,441	3,556
Illinois	111,168	70,463	42,621	40,557	46,870	44,620
Indiana	53,950	36,918	27,578	26,544	26,996	29,386
Iowa	24,723	17,401	11,705	11,634	11,505	11,581
Kansas	24,659	15,783	13,484	16,116	23,844	15,726
Kentucky	21,324	14,326	9,949	9,434	9,646	9,592
Louisiana	101,574	109,871	116,287	121,396	123,951	115,741
Maine	692	486	329	294	271	323
Maryland	17,537	11,517	9,389	10,095	12,430	11,965
Massachusetts	30,307	23,079	20,467	22,754	23,347	28,231
Michigan	88,305	55,632	41,554	39,709	26,729	47,754
Minnesota	36,525	21,652	[R]12,463	[R]13,828	[R]14,183	[R]14,590
Mississippi	15,871	14,057	NA	NA	[R]22,264	16,531
Missouri	24,674	12,066	9,892	10,007	12,149	11,954
Montana	5,208	3,676	2,248	2,129	1,983	2,266
Nebraska	9,888	6,785	5,118	6,824	8,142	5,797
Nevada	7,731	9,078	10,632	12,185	11,535	9,932
New Hampshire	1,785	1,291	918	893	810	1,302
New Jersey	50,492	34,828	28,939	32,427	35,789	33,917
New Mexico	10,735	7,477	6,667	8,136	7,917	6,160
New York	102,978	76,363	74,703	[R]83,146	[R]94,398	93,399
North Carolina	18,008	13,573	12,137	[R]12,201	13,611	13,375
North Dakota	3,211	1,875	[R]1,291	[R]1,277	[R]1,122	[R]1,348
Ohio	85,201	56,541	37,252	34,992	35,483	53,748
Oklahoma	33,511	29,633	33,919	41,269	40,796	33,405
Oregon	14,544	[R]13,479	12,257	12,512	9,480	7,816
Pennsylvania	62,304	40,177	28,814	27,734	29,436	30,381
Rhode Island	7,313	5,310	4,739	4,757	5,072	5,713
South Carolina	12,984	10,286	11,465	10,162	10,374	10,987
South Dakota	3,059	1,587	1,153	1,210	1,397	1,503
Tennessee	[R]23,356	16,202	[R]13,989	16,625	14,883	NA
Texas	272,820	278,581	NA	336,135	333,317	288,867
Utah	13,507	10,682	6,491	6,865	6,734	5,981
Vermont	724	529	345	293	285	354
Virginia	19,787	13,199	11,565	14,326	14,545	11,949
Washington	NA	NA	NA	NA	NA	NA
West Virginia	11,362	7,498	6,025	6,001	5,547	6,088
Wisconsin	41,410	26,493	16,641	15,927	16,856	16,978
Wyoming	6,583	5,250	4,006	4,271	4,475	4,900
Total	[R]1,723,314	[R]1,378,502	[R]1,293,173	[R]1,364,550	[R]1,385,787	[R]1,308,626

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
	May	April	March	February	January	Total
Alabama	22,424	23,941	24,993	29,657	31,172	293,084
Alaska	11,115	12,759	15,201	13,022	16,033	150,877
Arizona	8,784	7,634	10,327	11,108	12,383	103,037
Arkansas	16,456	18,079	20,701	24,893	27,771	252,585
California	142,936	143,180	153,401	162,740	177,251	1,721,217
Colorado	R19,524	R22,841	R31,508	R33,748	35,247	269,006
Connecticut	8,957	13,002	14,461	16,153	15,331	126,488
Delaware	3,347	4,765	5,651	5,917	5,563	54,020
District of Columbia	2,317	R3,054	4,232	4,971	5,042	33,644
Florida	45,019	43,877	44,868	33,719	28,239	478,471
Georgia	24,082	29,290	30,048	40,351	45,217	374,882
Hawaii	207	215	226	237	239	2,672
Idaho	4,298	5,685	6,454	7,128	7,546	61,058
Illinois	64,781	89,460	117,095	132,731	171,217	1,104,972
Indiana	39,518	46,657	58,071	64,849	77,941	561,056
Iowa	15,100	20,283	25,468	28,940	38,690	260,140
Kansas	R16,282	R20,575	R24,691	R29,283	R35,302	275,508
Kentucky	12,569	15,682	19,924	23,491	31,742	207,529
Louisiana	113,669	107,263	102,673	104,512	111,149	1,382,966
Maine	434	562	702	643	778	5,722
Maryland	12,410	17,306	20,426	23,169	25,264	189,901
Massachusetts	R25,054	38,213	42,550	44,676	41,780	355,609
Michigan	70,254	87,580	111,995	120,468	135,357	980,555
Minnesota	20,146	28,959	40,103	43,694	51,447	348,671
Mississippi	13,189	13,005	14,795	17,431	18,819	216,524
Missouri	15,126	24,138	28,568	45,769	45,237	286,814
Montana	3,230	4,531	5,832	6,646	8,432	55,584
Nebraska	8,296	11,121	13,855	16,008	18,765	128,297
Nevada	10,829	9,548	11,806	9,961	11,012	122,449
New Hampshire	1,490	2,115	2,437	2,626	2,545	19,031
New Jersey	39,326	50,239	74,024	R67,837	77,588	599,810
New Mexico	8,284	7,848	11,457	13,677	16,137	113,059
New York	94,944	111,890	R134,810	148,697	139,721	1,121,742
North Carolina	15,140	17,647	19,958	25,811	25,277	205,783
North Dakota	2,260	3,140	4,558	5,115	5,328	32,670
Ohio	59,664	75,370	98,118	113,373	133,181	915,035
Oklahoma	30,523	34,088	37,995	43,503	46,790	460,373
Oregon	R9,572	11,918	14,443	15,716	18,728	160,626
Pennsylvania	44,874	60,019	73,750	84,428	92,163	684,022
Rhode Island	6,909	7,506	8,621	8,649	8,803	82,041
South Carolina	11,697	12,329	13,572	15,461	15,657	146,434
South Dakota	2,004	2,900	3,604	4,506	5,684	33,594
Tennessee	18,028	21,621	NA	34,363	33,577	256,053
Texas	263,252	251,146	285,767	269,998	314,990	3,585,201
Utah	6,869	11,451	13,240	16,675	18,897	129,651
Vermont	569	782	1,048	1,059	1,078	7,325
Virginia	16,730	20,370	21,630	27,864	29,819	230,140
Washington	18,287	16,880	23,019	24,824	27,478	231,767
West Virginia	8,410	12,384	9,734	13,142	14,271	115,622
Wisconsin	26,124	33,702	46,172	48,115	61,227	398,581
Wyoming	6,272	6,374	6,938	6,883	8,992	73,609
Total	R1,441,585	R1,634,925	R1,932,467	R2,088,235	R2,327,898	20,005,508

R = Revised Data.
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				
				July	June	May	April	March
Alabama	3.21	3.84	3.33	3.97	3.86	3.56	3.20	3.03
Alaska	1.72	1.82	1.58	1.64	1.67	1.68	1.71	1.73
Arizona	2.56	3.16	2.25	2.85	2.60	2.93	2.75	2.55
Arkansas	2.98	3.18	2.56	3.23	2.31	3.00	2.96	3.13
California	2.35	3.01	2.32	2.39	2.34	2.49	2.33	2.38
Colorado	NA	NA	2.27	NA	2.43	2.46	NA	NA
Connecticut	5.18	5.29	5.15	5.14	4.74	5.08	5.89	4.87
Delaware	2.70	3.93	3.61	2.86	4.35	1.79	2.63	2.73
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.38	3.95	3.68	3.14	2.96	3.15	3.92	3.25
Georgia	3.45	4.01	3.66	3.57	3.01	3.55	3.63	3.85
Hawaii	5.49	6.58	5.88	4.77	4.86	5.21	5.21	6.25
Idaho	1.97	2.21	2.22	2.81	2.56	1.94	1.96	1.81
Illinois	2.86	3.15	3.19	3.16	2.15	3.64	2.90	2.81
Indiana	NA	2.98	3.08	NA	NA	2.80	NA	2.32
Iowa	3.54	3.64	3.16	4.11	1.98	4.17	3.33	3.42
Kansas	3.13	3.33	2.90	4.31	3.66	3.17	2.79	2.86
Kentucky	3.30	3.70	3.24	3.57	3.12	3.33	3.99	3.23
Louisiana	2.43	2.98	3.14	2.45	2.19	2.36	2.29	2.53
Maine	NA	4.25	4.47	5.39	NA	NA	3.25	3.25
Maryland	3.91	3.89	3.89	7.62	5.94	5.58	4.37	3.44
Massachusetts	3.67	3.73	3.76	5.83	R5.52	R4.56	3.48	3.30
Michigan	2.81	2.95	2.89	2.92	2.50	2.69	2.78	2.97
Minnesota	3.07	3.41	2.89	3.31	2.88	3.24	2.95	3.00
Mississippi	NA	3.33	3.22	NA	NA	NA	NA	NA
Missouri	3.33	3.68	2.92	5.12	4.87	4.47	3.72	2.97
Montana	2.44	3.26	2.86	2.27	2.39	R2.22	2.29	2.50
Nebraska	3.39	3.62	2.81	3.65	2.98	3.73	3.29	2.98
Nevada	3.15	3.44	2.71	3.75	3.37	3.25	3.00	3.29
New Hampshire	NA	4.19	4.16	4.63	NA	R3.36	3.37	3.93
New Jersey	3.59	4.11	3.76	3.86	3.57	3.00	3.54	3.53
New Mexico	2.10	2.53	1.46	1.94	1.76	2.04	2.19	2.20
New York	NA	NA	3.40	NA	NA	NA	3.01	NA
North Carolina	3.65	3.99	3.70	3.95	3.83	3.66	3.91	3.49
North Dakota	2.80	3.29	2.74	2.57	2.34	2.74	2.86	2.91
Ohio	NA	5.44	4.06	NA	4.75	5.04	4.89	4.87
Oklahoma	2.56	3.13	2.54	2.38	2.51	2.46	2.36	2.38
Oregon	NA	2.52	2.22	4.13	3.22	2.78	NA	NA
Pennsylvania	NA	4.00	3.57	5.50	4.79	3.94	NA	5.26
Rhode Island	NA	4.41	4.15	3.68	3.61	R3.70	NA	3.38
South Carolina	3.49	3.70	3.90	4.09	3.81	3.90	3.66	3.34
South Dakota	3.39	3.68	2.84	4.27	2.91	4.42	4.37	2.60
Tennessee	NA	NA	3.91	3.12	3.39	3.90	6.62	2.42
Texas	2.97	3.63	3.08	2.91	2.65	2.97	2.94	2.84
Utah	3.18	2.55	2.16	2.64	2.73	2.62	2.89	3.23
Vermont	2.71	2.18	2.93	2.60	2.69	2.82	2.74	2.92
Virginia	3.75	4.13	3.72	4.51	4.32	4.37	3.64	3.25
Washington	NA	NA	2.25	NA	NA	NA	NA	NA
West Virginia	NA	3.09	3.26	NA	NA	NA	3.61	2.58
Wisconsin	3.41	3.57	3.16	5.17	4.51	3.63	3.54	3.33
Wyoming	NA	3.05	2.40	NA	2.53	NA	3.05	3.29
Total	3.18	3.55	3.21	3.34	2.97	R3.11	3.22	3.22

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					
	February	January	Total	December	November	October	September	August
Alabama	2.93	3.18	3.65	2.60	3.97	4.17	3.83	3.88
Alaska	1.72	1.75	1.81	1.82	1.82	1.78	1.79	1.73
Arizona	2.28	2.46	3.15	2.53	3.48	3.80	3.74	3.16
Arkansas	2.85	3.09	3.23	3.19	3.44	3.61	2.87	3.28
California	2.12	2.35	2.98	2.65	3.30	3.18	2.74	2.79
Colorado	NA	NA	NA	2.57	3.59	2.71	2.66	2.41
Connecticut	5.24	5.23	5.11	5.55	3.87	4.96	5.29	5.33
Delaware	3.02	2.71	3.57	2.40	5.73	5.23	1.44	3.17
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.20	3.81	3.97	3.85	4.45	4.64	3.82	3.31
Georgia	3.18	3.43	3.99	3.67	4.04	4.03	5.29	3.90
Hawaii	5.75	6.40	6.44	6.23	—	6.09	6.11	6.35
Idaho	1.94	1.89	2.12	1.79	2.07	2.01	2.17	2.50
Illinois	2.85	2.78	3.28	2.92	3.72	4.07	3.78	3.37
Indiana	2.48	2.49	3.02	2.64	3.21	3.88	3.15	2.87
Iowa	3.33	3.80	4.05	4.44	4.84	4.99	5.39	5.86
Kansas	2.73	3.56	R3.46	R3.60	4.29	3.61	3.47	3.11
Kentucky	3.09	3.22	3.83	4.07	4.28	3.89	3.57	3.62
Louisiana	2.25	2.81	3.05	2.85	3.73	3.43	3.01	2.56
Maine	3.25	3.25	3.84	3.10	2.72	4.11	3.79	4.43
Maryland	3.43	2.96	4.01	3.37	4.22	4.69	5.77	6.05
Massachusetts	2.89	3.40	R3.80	R3.09	4.14	4.52	4.58	4.91
Michigan	2.89	2.94	2.99	3.19	3.51	3.12	2.87	2.63
Minnesota	2.90	3.27	3.67	4.06	4.52	4.26	4.02	2.97
Mississippi	2.99	NA	NA	3.31	3.83	NA	NA	NA
Missouri	2.99	2.96	3.74	3.13	3.91	4.63	5.08	4.79
Montana	2.41	2.71	3.16	2.51	3.15	4.47	3.76	3.96
Nebraska	2.70	4.71	4.24	5.31	6.30	5.76	7.03	5.51
Nevada	3.00	3.03	3.39	2.84	3.71	3.46	4.12	3.99
New Hampshire	3.74	3.77	4.10	3.72	4.02	3.95	3.79	4.45
New Jersey	3.38	4.37	4.17	3.77	4.49	4.74	4.22	4.41
New Mexico	2.02	2.24	2.53	2.31	2.85	2.59	2.62	2.18
New York	NA	NA	NA	NA	NA	NA	3.42	3.07
North Carolina	3.47	3.65	3.97	3.72	4.09	3.95	4.13	3.96
North Dakota	2.85	2.93	3.38	3.01	4.01	3.73	3.53	3.36
Ohio	4.27	4.82	5.16	4.35	4.66	5.09	4.91	5.51
Oklahoma	2.61	2.86	3.12	3.32	3.19	3.04	2.58	2.66
Oregon	2.31	2.53	2.58	2.42	2.73	2.48	3.12	4.01
Pennsylvania	3.64	3.68	4.08	3.71	4.32	4.60	4.56	4.95
Rhode Island	3.35	3.93	4.49	4.02	4.46	4.53	5.71	6.64
South Carolina	3.05	3.37	3.81	3.72	4.13	4.15	4.03	3.86
South Dakota	3.66	3.22	3.66	3.46	3.68	3.53	4.03	4.26
Tennessee	3.84	NA	NA	3.63	4.37	3.93	2.78	2.51
Texas	2.87	3.26	3.67	3.97	3.86	3.58	3.21	3.11
Utah	3.68	3.25	2.79	3.46	3.07	2.64	2.81	3.02
Vermont	2.66	2.59	2.33	2.64	2.77	2.34	2.29	2.33
Virginia	3.63	3.97	4.13	3.65	4.15	4.83	4.69	4.47
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	3.15	3.34	3.16	2.99	3.07	3.66	3.53	3.89
Wisconsin	2.99	3.21	R3.64	R3.32	3.75	3.91	4.52	4.75
Wyoming	3.31	NA	3.13	3.20	3.61	3.02	3.35	2.90
Total	3.08	3.28	3.59	R3.41	3.92	3.90	3.57	3.39

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
	July	June	May	April	March	February	January	Total
Alabama	4.10	3.86	3.54	3.16	3.20	4.02	4.44	3.48
Alaska	1.74	1.70	1.78	1.81	1.84	1.80	1.88	1.58
Arizona	2.98	3.32	3.18	2.61	2.22	2.85	4.21	2.78
Arkansas	2.78	2.77	2.59	2.48	2.46	3.16	4.18	2.76
California	3.72	2.67	2.55	2.30	2.25	3.21	4.14	2.59
Colorado	2.67	2.57	2.42	NA	2.32	NA	NA	2.70
Connecticut	4.55	4.76	4.81	4.94	4.82	6.00	5.82	5.11
Delaware	3.51	3.44	3.20	3.00	3.69	4.48	5.66	3.68
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.41	3.50	3.09	3.62	4.04	4.56	4.61	3.73
Georgia	3.96	4.37	3.20	3.08	3.31	4.15	4.80	3.77
Hawaii	6.59	5.46	6.47	7.21	6.50	7.73	6.16	6.05
Idaho	2.16	2.83	2.98	2.08	1.85	2.13	2.37	2.24
Illinois	2.81	3.11	3.06	2.48	2.43	3.30	3.79	3.27
Indiana	2.54	2.35	2.32	2.07	2.31	3.20	4.08	3.09
Iowa	6.62	4.74	3.49	2.83	3.05	3.66	3.98	3.47
Kansas	2.88	3.02	2.85	2.38	2.67	3.67	4.37	3.05
Kentucky	3.68	3.69	3.30	3.62	3.40	3.47	4.17	3.41
Louisiana	2.58	2.63	2.40	2.36	2.44	3.49	3.84	3.13
Maine	4.34	4.53	4.69	3.43	4.26	3.52	4.96	4.30
Maryland	5.81	4.34	4.15	3.15	3.32	3.75	4.14	4.02
Massachusetts	5.29	5.61	2.86	3.26	2.97	4.12	4.30	3.98
Michigan	2.54	2.69	2.60	2.56	2.66	3.28	3.98	2.90
Minnesota	3.92	3.49	2.64	2.41	2.70	3.48	4.51	3.07
Mississippi	2.87	2.95	2.43	2.89	2.82	3.48	4.25	3.27
Missouri	4.61	5.31	3.95	3.11	2.78	3.50	4.05	3.25
Montana	3.63	3.91	2.28	3.09	2.70	3.50	3.73	3.03
Nebraska	4.96	4.09	3.11	2.28	3.02	3.75	4.42	3.07
Nevada	3.87	3.64	2.72	2.81	2.96	3.37	4.13	3.10
New Hampshire	4.28	4.34	3.66	3.15	3.99	4.42	4.93	4.20
New Jersey	4.29	4.21	3.86	3.15	3.99	4.20	4.70	3.84
New Mexico	2.13	2.13	2.04	1.91	1.38	2.39	3.85	1.99
New York	2.83	2.96	NA	NA	NA	NA	NA	3.36
North Carolina	3.90	3.84	3.83	3.40	3.51	4.34	4.36	3.74
North Dakota	3.14	3.17	2.95	2.50	2.43	3.59	4.22	2.94
Ohio	7.16	6.17	5.96	5.79	5.01	5.41	5.24	4.37
Oklahoma	3.23	2.66	2.22	2.22	3.09	3.68	3.52	2.56
Oregon	3.45	3.00	3.02	1.95	1.92	2.35	2.95	2.42
Pennsylvania	4.03	4.90	4.30	3.48	3.48	4.12	4.22	3.77
Rhode Island	7.53	6.42	4.81	3.46	3.16	4.26	4.85	4.41
South Carolina	3.74	3.78	3.54	3.25	2.95	3.97	4.20	3.90
South Dakota	4.40	4.58	3.75	3.02	2.78	3.95	4.10	3.19
Tennessee	2.71	NA	2.96	2.51	NA	3.73	4.10	4.04
Texas	3.23	3.01	2.50	2.38	3.01	4.16	4.70	3.22
Utah	2.83	2.35	1.93	2.15	2.69	2.76	2.65	2.25
Vermont	2.41	2.58	2.77	2.39	2.26	2.16	1.57	2.74
Virginia	3.94	3.77	5.12	3.28	3.49	3.96	5.04	3.89
Washington	NA	NA	2.53	2.70	1.89	2.62	3.45	2.44
West Virginia	1.85	3.90	3.02	2.88	2.17	3.54	3.61	3.36
Wisconsin	3.68	4.82	3.39	3.12	2.89	3.54	4.13	3.43
Wyoming	2.94	2.85	1.64	2.48	3.19	3.61	4.22	2.36
Total	3.50	3.38	3.14	2.94	3.05	3.78	4.27	3.34

R = Revised Data.
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				
				July	June	May	April	March
Alabama	7.65	8.32	6.84	11.13	10.91	8.99	7.73	7.00
Alaska	3.74	3.78	3.40	4.71	4.02	3.83	3.66	3.71
Arizona	8.01	7.36	7.32	12.24	11.02	9.58	8.14	7.39
Arkansas	7.31	6.49	5.59	9.03	8.72	R5.83	6.86	6.41
California	6.93	6.47	6.49	7.07	7.32	7.01	6.80	6.78
Colorado	NA	4.48	4.31	NA	NA	5.24	R4.74	R4.49
Connecticut	10.41	10.42	9.91	11.62	11.11	11.57	9.78	10.18
Delaware	8.51	8.15	6.74	11.67	10.99	9.44	8.51	8.15
District of Columbia	8.78	9.14	8.93	8.87	8.50	9.70	8.86	8.62
Florida	11.25	12.05	10.20	13.79	13.30	13.08	11.34	10.51
Georgia	7.28	7.84	6.42	16.76	11.73	13.50	7.09	5.78
Hawaii	19.50	22.16	19.45	18.60	18.75	19.37	19.21	19.87
Idaho	5.27	5.01	5.17	6.26	5.86	5.59	5.38	5.18
Illinois	5.46	5.98	5.08	8.69	8.09	7.94	5.79	4.90
Indiana	NA	6.44	5.29	NA	R9.95	8.81	NA	6.13
Iowa	5.77	5.89	5.07	11.56	8.41	7.80	6.36	4.79
Kansas	6.02	6.39	5.38	8.04	7.61	6.60	5.92	5.76
Kentucky	5.82	6.34	5.15	7.87	8.15	7.15	6.56	5.25
Louisiana	6.30	7.04	6.36	8.85	8.36	8.95	6.46	5.28
Maine	8.03	8.52	7.70	9.11	R8.33	R8.66	7.90	7.90
Maryland	8.02	7.93	7.34	12.03	10.82	9.82	8.36	7.53
Massachusetts	NA	9.41	8.74	10.45	NA	NA	9.64	9.37
Michigan	5.07	5.05	4.77	7.12	6.23	5.85	5.11	4.69
Minnesota	5.41	5.73	5.20	7.57	7.15	6.45	5.60	5.18
Mississippi	NA	6.11	5.46	NA	NA	NA	NA	NA
Missouri	6.30	6.33	5.67	9.76	8.84	7.40	6.14	5.58
Montana	NA	4.77	4.74	6.70	6.44	NA	5.15	4.97
Nebraska	5.19	5.60	4.59	6.87	6.42	5.99	5.09	4.74
Nevada	6.95	6.01	6.07	8.69	7.74	7.30	6.90	6.80
New Hampshire	8.00	8.46	7.00	9.15	8.20	7.07	6.50	8.50
New Jersey	7.52	7.78	7.03	9.63	9.32	6.80	7.71	7.39
New Mexico	5.47	6.27	4.43	10.89	31.23	9.69	6.26	4.55
New York	NA	9.81	8.41	NA	NA	NA	9.26	8.54
North Carolina	8.33	9.05	7.16	12.05	11.81	9.29	7.91	7.77
North Dakota	4.99	4.49	4.57	7.09	7.03	5.96	5.12	4.79
Ohio	NA	6.80	5.47	NA	7.35	6.56	6.22	5.97
Oklahoma	5.87	6.26	5.35	8.91	8.37	6.84	5.56	5.43
Oregon	NA	5.96	6.24	8.33	7.48	7.19	NA	NA
Pennsylvania	NA	8.27	7.00	11.22	10.51	9.02	NA	8.05
Rhode Island	NA	9.48	8.10	11.94	10.94	R9.67	NA	9.03
South Carolina	8.24	8.73	7.20	10.18	9.76	8.44	7.88	8.02
South Dakota	5.53	5.42	4.90	8.90	6.54	6.88	5.88	5.31
Tennessee	NA	6.89	6.18	8.68	8.15	6.95	6.42	5.96
Texas	6.13	6.27	5.62	8.86	7.94	7.31	6.29	5.14
Utah	5.60	4.95	4.42	6.70	5.39	5.72	4.85	5.51
Vermont	6.52	6.27	6.25	8.91	8.08	7.28	6.45	6.30
Virginia	8.44	8.53	7.45	12.22	11.73	10.14	8.28	7.75
Washington	NA	NA	5.58	NA	NA	NA	NA	NA
West Virginia	NA	6.94	6.91	NA	NA	NA	7.55	6.85
Wisconsin	6.13	6.45	5.88	7.16	6.50	6.29	6.02	6.28
Wyoming	NA	3.97	4.35	NA	5.99	5.79	5.25	5.13
Total	6.73	6.84	6.12	8.99	R8.40	R7.59	R6.77	R6.27

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					
	February	January	Total	December	November	October	September	August
Alabama	7.10	7.41	8.39	7.32	7.99	11.10	11.62	11.70
Alaska	3.65	3.56	3.78	3.62	3.69	3.75	3.94	4.66
Arizona	7.40	7.23	7.80	7.59	9.17	11.33	9.10	10.54
Arkansas	6.50	9.42	6.64	6.23	6.40	8.66	9.53	9.25
California	6.49	7.28	6.82	7.20	7.49	7.81	7.42	7.57
Colorado	[R]4.57	[R]4.50	[R]4.73	[R]4.67	[R]5.11	5.88	7.07	6.86
Connecticut	10.33	10.36	10.31	9.18	10.42	11.01	11.58	11.48
Delaware	8.08	8.07	8.42	8.11	8.76	10.81	11.91	11.94
District of Columbia	8.44	9.01	9.47	9.45	11.01	11.27	11.34	8.40
Florida	10.47	10.33	12.71	12.58	13.89	14.79	14.96	15.05
Georgia	6.15	6.40	7.45	6.11	5.95	8.02	10.57	11.75
Hawaii	20.46	19.99	21.71	20.40	20.84	21.04	21.33	21.61
Idaho	5.14	5.01	5.11	4.98	5.28	5.66	6.47	6.51
Illinois	4.91	4.88	5.95	5.39	5.65	6.07	8.00	7.87
Indiana	[R]6.22	6.12	6.37	5.54	5.83	6.95	8.77	9.40
Iowa	4.97	5.49	6.27	6.09	6.52	7.80	11.19	10.25
Kansas	5.80	5.82	6.47	5.96	6.55	7.74	8.54	8.27
Kentucky	5.47	5.48	6.48	6.49	6.19	7.52	7.94	9.22
Louisiana	5.60	6.10	7.24	6.38	7.96	9.44	9.42	8.76
Maine	7.90	7.90	8.47	8.36	8.21	7.80	9.46	9.25
Maryland	7.36	7.38	8.21	7.61	8.71	9.91	10.72	11.35
Massachusetts	9.26	9.19	9.54	10.09	9.78	8.58	10.09	10.39
Michigan	4.92	4.85	5.15	4.93	5.08	5.74	6.81	7.26
Minnesota	5.11	5.07	[R]5.84	5.17	6.12	6.58	[R]8.61	[R]8.23
Mississippi	5.39	NA	6.25	5.67	6.70	8.29	[R]7.66	[R]7.78
Missouri	5.86	6.30	6.57	6.45	6.68	8.83	9.59	9.38
Montana	5.03	4.87	5.07	5.33	5.42	5.84	6.73	6.98
Nebraska	4.93	5.28	5.87	6.19	6.19	7.53	7.90	7.72
Nevada	6.79	6.53	6.29	6.20	6.74	7.67	7.95	7.99
New Hampshire	8.38	8.30	8.48	8.46	8.87	7.47	8.98	9.17
New Jersey	7.23	7.41	7.85	7.48	7.63	8.52	9.80	9.82
New Mexico	5.23	3.72	5.75	3.61	4.47	8.32	10.84	11.07
New York	8.62	NA	[R]9.98	[R]9.14	10.65	11.75	12.64	[R]11.38
North Carolina	7.93	8.33	9.00	8.05	8.23	11.20	13.11	13.15
North Dakota	4.68	4.52	[R]4.91	5.57	5.67	6.26	[R]7.41	[R]7.44
Ohio	5.75	6.25	6.75	6.20	6.31	7.40	8.29	8.46
Oklahoma	5.73	5.56	6.35	5.56	6.17	8.93	9.28	9.36
Oregon	6.44	6.09	6.05	5.89	6.15	6.68	7.07	7.26
Pennsylvania	8.03	9.60	8.34	7.76	7.94	9.01	11.12	11.69
Rhode Island	8.86	8.83	9.61	8.97	9.74	10.64	12.10	12.53
South Carolina	8.27	8.17	8.60	7.98	8.00	9.53	10.15	10.24
South Dakota	5.07	5.01	5.75	5.94	6.17	6.98	9.10	8.07
Tennessee	6.31	NA	6.99	6.81	6.89	8.33	8.81	9.00
Texas	6.58	5.42	6.41	5.67	6.50	8.07	8.67	8.91
Utah	5.73	5.83	5.10	5.25	5.66	4.62	5.55	5.94
Vermont	6.23	6.19	6.41	6.21	6.43	7.06	8.41	8.78
Virginia	8.05	8.11	8.83	8.42	9.02	11.07	12.27	12.45
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	6.78	6.81	6.76	5.83	6.58	5.98	8.89	9.58
Wisconsin	5.98	5.96	6.53	6.37	7.24	6.07	6.92	6.99
Wyoming	5.14	NA	4.54	6.24	5.19	5.54	6.09	6.31
Total	6.41	[R]6.46	[R]6.94	[R]6.52	[R]6.87	7.65	[R]8.78	[R]8.93

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
	July	June	May	April	March	February	January	Total
Alabama	11.26	10.45	8.69	9.21	8.65	7.61	7.62	7.22
Alaska	4.43	4.27	3.88	3.75	3.75	3.67	3.63	3.42
Arizona	10.05	9.59	8.68	7.93	7.03	6.81	6.62	7.52
Arkansas	8.64	8.23	6.93	6.40	6.14	6.09	6.48	5.92
California	7.05	7.71	6.38	6.18	6.42	6.27	6.27	6.44
Colorado	6.82	5.86	4.85	4.65	4.32	R4.25	R3.89	4.39
Connecticut	11.35	10.71	10.71	10.07	9.66	10.96	10.41	10.08
Delaware	11.69	10.13	8.93	8.25	7.94	7.75	7.54	7.12
District of Columbia	8.46	8.28	9.18	8.74	8.57	9.36	9.81	9.19
Florida	14.65	14.15	13.36	12.89	12.12	10.69	10.57	10.74
Georgia	11.87	12.38	10.42	6.23	8.88	7.47	6.53	6.69
Hawaii	21.17	21.51	21.78	21.30	22.29	25.55	21.14	19.81
Idaho	6.16	5.81	5.26	5.10	4.95	4.80	4.81	5.20
Illinois	7.83	7.93	5.43	5.10	5.28	6.50	6.15	5.28
Indiana	10.18	8.85	7.23	6.70	6.28	6.06	5.82	5.54
Iowa	9.53	8.08	6.21	5.24	5.58	6.01	5.57	5.49
Kansas	7.54	8.03	6.24	6.04	5.98	6.58	6.33	5.59
Kentucky	9.15	7.56	6.67	6.84	6.32	6.02	5.87	5.54
Louisiana	8.41	8.45	7.52	6.09	6.28	6.85	7.34	6.76
Maine	9.69	8.39	7.95	9.05	8.65	8.66	8.10	7.84
Maryland	10.88	9.62	8.26	8.14	7.31	7.64	7.68	7.60
Massachusetts	9.86	8.32	7.49	9.90	9.70	9.62	9.55	8.88
Michigan	6.88	6.15	5.10	4.92	4.82	4.94	5.04	4.96
Minnesota	R8.04	R7.03	5.32	4.66	4.81	5.81	6.50	5.46
Mississippi	R7.54	7.36	6.91	6.42	5.49	5.61	6.17	5.72
Missouri	8.77	7.53	5.88	5.31	5.70	6.50	6.67	5.97
Montana	7.46	6.10	5.00	4.73	4.69	4.49	4.47	4.86
Nebraska	7.43	6.71	4.65	4.91	4.86	5.75	6.21	4.88
Nevada	7.58	7.31	6.63	6.16	5.78	5.76	5.54	6.19
New Hampshire	9.01	7.59	6.62	6.62	9.36	9.24	9.10	7.40
New Jersey	9.62	9.38	8.30	7.71	7.42	7.47	7.67	7.16
New Mexico	11.66	40.76	6.53	8.78	4.46	5.09	5.81	4.47
New York	12.49	10.88	9.51	9.11	R8.67	10.13	10.43	8.90
North Carolina	12.42	10.31	8.58	8.68	9.59	8.76	8.77	7.59
North Dakota	R7.24	R6.33	5.10	4.10	4.14	4.32	4.43	4.54
Ohio	8.71	7.42	6.74	6.60	6.51	6.83	6.72	5.90
Oklahoma	8.95	8.14	6.80	5.96	5.66	5.79	6.44	5.64
Oregon	7.04	6.82	6.38	6.04	5.85	5.76	5.73	6.31
Pennsylvania	11.78	10.15	8.88	8.41	8.05	8.05	7.64	7.38
Rhode Island	12.30	10.90	9.70	9.67	9.39	9.18	8.79	8.49
South Carolina	9.73	8.96	8.09	8.36	9.24	8.69	8.67	7.41
South Dakota	8.39	7.83	5.92	4.95	4.83	5.09	5.50	5.25
Tennessee	8.92	R7.43	6.49	6.39	R6.86	7.00	6.84	6.26
Texas	8.38	7.83	6.42	5.66	5.56	6.05	6.35	5.89
Utah	5.61	5.67	5.80	4.16	5.14	4.89	4.91	4.47
Vermont	8.51	7.35	6.52	6.23	6.08	6.04	6.04	6.40
Virginia	12.40	10.70	9.05	8.12	7.56	8.07	8.87	7.94
Washington	NA	NA	5.69	5.68	5.48	5.40	5.39	5.65
West Virginia	10.39	8.47	7.26	6.91	6.80	6.67	6.68	7.02
Wisconsin	6.58	6.68	5.13	6.31	5.89	6.61	7.08	6.04
Wyoming	5.83	5.25	3.23	4.73	4.01	3.91	3.51	4.26
Total	R8.71	R8.26	6.84	6.57	R6.47	6.80	6.74	6.34

R = Revised Data.
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				
				July	June	May	April	March
Alabama	6.46	7.06	6.04	7.25	7.24	6.18	6.00	6.27
Alaska	2.34	2.43	2.36	2.08	2.05	2.24	2.31	2.39
Arizona	5.80	5.14	4.99	6.25	6.19	6.14	5.79	5.50
Arkansas	NA	5.15	4.47	5.29	NA	R5.31	5.23	5.04
California	6.43	6.48	6.11	5.50	5.91	5.68	6.65	7.06
Colorado	NA	3.78	3.74	NA	4.44	4.21	R4.05	R4.04
Connecticut	7.03	7.51	7.55	4.66	5.88	7.03	6.86	7.42
Delaware	6.92	6.63	5.62	8.14	7.81	7.33	6.85	6.75
District of Columbia	7.33	7.99	7.24	6.98	6.97	6.99	7.09	7.46
Florida	6.73	6.83	6.48	6.55	6.70	6.83	6.71	6.69
Georgia	6.32	6.71	5.81	9.40	7.59	7.99	5.53	5.51
Hawaii	13.44	15.21	13.97	12.36	12.60	13.20	13.32	13.66
Idaho	4.55	4.43	4.54	4.90	4.83	4.77	4.76	4.46
Illinois	4.90	5.43	4.70	6.29	5.72	6.81	5.21	4.70
Indiana	NA	5.54	4.50	NA	NA	6.35	NA	5.44
Iowa	4.54	5.00	4.15	7.53	4.17	5.48	5.19	3.72
Kansas	5.09	5.72	4.45	5.45	5.65	5.75	6.08	3.85
Kentucky	5.51	5.74	4.74	6.14	5.57	5.33	5.67	5.44
Louisiana	NA	6.19	5.94	5.85	NA	6.10	5.49	4.94
Maine	7.32	7.81	7.01	6.81	R6.70	R7.20	7.41	7.41
Maryland	6.42	6.34	6.02	8.19	6.65	7.82	6.82	6.15
Massachusetts	7.35	7.45	6.83	6.22	6.55	6.86	7.65	7.46
Michigan	4.83	4.85	4.60	5.88	5.38	5.21	4.92	4.58
Minnesota	4.48	4.86	4.45	4.66	4.46	4.63	4.53	4.41
Mississippi	NA	5.06	5.40	NA	NA	NA	NA	NA
Missouri	5.65	5.75	5.20	5.93	5.65	5.52	5.37	5.27
Montana	NA	4.61	4.58	6.06	5.47	NA	5.05	4.91
Nebraska	4.79	4.83	4.41	3.91	3.91	4.25	4.42	6.13
Nevada	5.76	5.01	4.87	6.08	5.91	5.75	5.76	5.69
New Hampshire	NA	7.83	6.52	6.59	NA	R5.98	6.06	7.64
New Jersey	4.17	6.35	6.42	3.96	3.74	3.84	4.17	3.83
New Mexico	4.22	4.68	3.31	4.88	6.66	5.15	4.42	3.91
New York	NA	6.64	NA	NA	NA	NA	6.20	NA
North Carolina	6.58	7.18	5.98	6.45	6.16	6.18	6.09	6.45
North Dakota	4.20	4.03	4.05	4.72	4.86	4.54	4.16	4.17
Ohio	NA	6.41	5.04	NA	6.30	5.76	5.79	5.62
Oklahoma	5.30	5.60	4.58	5.39	5.24	4.97	4.57	5.27
Oregon	NA	4.60	4.84	5.75	5.52	5.51	NA	NA
Pennsylvania	NA	7.50	6.24	8.03	8.25	8.23	NA	7.33
Rhode Island	NA	8.22	7.33	8.98	8.88	NA	NA	7.88
South Carolina	6.55	6.67	6.24	5.94	6.00	5.98	6.40	6.55
South Dakota	4.41	4.44	4.01	6.23	4.33	5.07	4.69	4.37
Tennessee	NA	5.98	5.73	5.98	5.95	5.83	5.68	5.55
Texas	4.64	5.02	4.09	4.30	4.12	4.44	4.75	4.32
Utah	4.26	3.66	3.30	4.37	3.93	3.93	3.76	4.36
Vermont	5.22	5.24	5.27	4.91	5.30	5.98	5.14	5.10
Virginia	6.02	6.47	5.70	5.76	6.14	5.44	5.63	5.82
Washington	NA	NA	4.78	NA	NA	NA	NA	NA
West Virginia	NA	6.35	6.12	6.86	NA	7.34	6.60	6.32
Wisconsin	4.97	5.35	4.72	4.82	4.44	4.16	4.75	5.24
Wyoming	NA	3.43	4.00	NA	NA	4.77	4.60	4.55
Total	5.54	5.83	5.33	5.63	5.53	5.61	R5.57	R5.38

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					
	February	January	Total	December	November	October	September	August
Alabama	6.47	6.65	7.04	6.61	6.83	7.46	7.59	7.50
Alaska	2.45	2.49	2.44	2.55	2.53	2.52	2.28	2.09
Arizona	5.59	5.65	5.33	5.56	5.83	5.83	5.82	5.34
Arkansas	5.19	5.14	5.21	5.12	5.45	5.75	5.54	5.18
California	6.75	6.69	6.48	7.04	7.09	6.70	5.88	5.00
Colorado	R4.07	R4.18	R3.98	4.37	R4.33	4.65	3.95	4.63
Connecticut	7.28	7.73	7.36	7.60	7.71	6.46	6.59	5.22
Delaware	6.72	6.70	6.78	6.65	6.97	7.56	7.28	8.64
District of Columbia	7.34	7.65	8.05	8.11	8.78	8.08	8.11	7.20
Florida	6.72	6.83	6.94	7.31	7.41	7.13	6.94	6.62
Georgia	5.86	6.16	6.37	5.66	5.46	5.98	6.28	7.00
Hawaii	14.41	14.35	14.97	14.02	14.75	14.75	14.62	15.09
Idaho	4.40	4.41	4.47	4.34	4.66	4.73	4.73	4.83
Illinois	4.25	4.76	5.45	5.24	5.28	5.82	6.24	6.10
Indiana	5.97	5.52	5.38	4.97	4.92	4.93	6.05	6.07
Iowa	4.08	4.71	5.23	5.20	5.53	5.97	7.44	6.44
Kansas	5.43	5.44	5.72	5.71	6.00	5.92	5.66	4.90
Kentucky	5.63	5.32	5.79	5.92	6.03	5.42	5.90	5.95
Louisiana	5.24	5.73	6.28	5.94	7.10	7.30	6.20	5.94
Maine	7.41	7.41	7.70	7.79	7.62	6.84	7.61	7.16
Maryland	6.18	6.14	6.47	6.35	7.11	7.18	6.89	6.22
Massachusetts	7.73	7.39	7.31	8.03	7.74	5.63	5.45	5.53
Michigan	4.76	4.77	4.92	4.79	4.95	5.40	5.97	5.96
Minnesota	4.42	4.50	R4.86	4.40	5.26	5.09	R5.34	4.41
Mississippi	4.35	NA	R5.13	5.08	5.58	5.98	R4.66	R4.89
Missouri	5.63	6.08	5.83	6.16	6.01	6.13	5.70	5.19
Montana	4.97	4.85	4.69	5.24	3.81	5.39	4.39	5.73
Nebraska	4.44	4.66	4.86	5.34	5.40	5.26	4.33	3.76
Nevada	5.76	5.63	5.13	5.36	5.47	5.48	5.22	5.22
New Hampshire	7.57	7.60	7.65	7.79	7.83	6.15	6.28	6.47
New Jersey	4.13	4.85	5.87	4.93	5.30	4.91	4.27	4.43
New Mexico	4.35	3.66	4.45	3.59	3.90	4.67	5.12	5.35
New York	NA	NA	R6.48	6.76	7.01	5.89	5.35	R4.75
North Carolina	6.72	7.05	6.99	6.96	6.70	6.18	6.46	6.44
North Dakota	4.13	4.03	4.34	4.92	5.11	4.97	5.15	4.51
Ohio	5.43	5.96	6.31	5.94	6.05	6.22	6.54	6.82
Oklahoma	5.56	5.53	5.50	5.37	5.32	5.54	5.02	4.94
Oregon	5.17	4.92	4.64	4.67	4.74	4.66	4.82	4.89
Pennsylvania	7.36	7.14	7.37	6.90	6.89	7.26	7.68	8.05
Rhode Island	7.78	7.75	8.21	7.98	8.02	8.00	8.77	9.12
South Carolina	6.91	6.92	6.30	6.84	6.75	6.10	3.26	6.03
South Dakota	4.10	4.12	4.71	5.06	5.22	5.50	6.51	5.22
Tennessee	6.37	NA	6.04	6.29	6.12	6.09	6.07	5.81
Texas	5.37	4.66	5.00	5.12	5.41	4.76	4.84	4.40
Utah	4.35	4.54	3.91	4.39	4.65	3.78	3.99	4.02
Vermont	5.23	5.21	5.18	5.15	4.99	4.91	5.01	5.43
Virginia	6.33	6.41	R6.47	R6.39	6.42	6.56	6.60	6.58
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	R6.31	6.28	6.42	6.20	6.30	7.01	7.63	8.23
Wisconsin	4.96	5.12	5.41	5.52	6.04	4.88	4.85	4.71
Wyoming	4.56	NA	3.93	5.56	4.62	5.02	4.43	4.31
Total	R5.56	R5.59	R5.79	5.72	R5.87	5.73	R5.63	R5.38

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
	July	June	May	April	March	February	January	Total
Alabama	7.60	7.22	6.85	7.11	7.26	6.92	6.97	6.19
Alaska	2.24	2.15	2.23	2.37	2.53	2.52	2.60	2.32
Arizona	5.22	5.21	5.19	5.09	5.27	5.11	5.01	5.01
Arkansas	5.32	5.37	5.14	4.90	4.86	5.07	5.42	4.68
California	5.90	6.32	5.33	6.10	6.71	6.98	7.18	5.94
Colorado	4.39	4.17	R4.02	R3.92	R3.91	R3.78	R3.26	3.67
Connecticut	5.63	5.76	7.00	7.24	7.66	8.45	8.09	7.41
Delaware	7.91	7.39	6.82	6.61	6.47	6.54	6.33	5.82
District of Columbia	6.92	7.03	6.87	10.06	7.61	7.97	8.24	7.37
Florida	6.98	6.93	6.89	6.74	6.96	6.84	6.56	6.45
Georgia	7.60	7.68	6.30	5.57	7.53	6.66	6.44	5.89
Hawaii	15.07	15.37	15.25	15.34	15.72	15.07	14.72	14.40
Idaho	4.76	4.78	4.66	4.62	4.36	4.29	4.30	4.56
Illinois	5.68	5.55	4.93	4.64	4.97	5.68	5.89	4.92
Indiana	6.50	6.28	6.15	5.97	5.37	5.43	5.14	4.67
Iowa	5.68	6.05	4.88	4.34	4.81	5.32	4.96	4.59
Kansas	4.95	4.90	5.25	5.17	5.46	6.25	6.12	4.61
Kentucky	6.20	6.00	5.53	5.85	5.72	5.80	5.61	5.09
Louisiana	5.39	6.19	6.08	5.08	5.83	6.48	7.08	6.08
Maine	7.12	6.94	6.67	8.28	8.10	8.12	7.75	7.09
Maryland	6.16	6.52	6.05	5.76	6.11	6.72	6.60	6.07
Massachusetts	5.34	5.04	5.44	7.94	8.14	8.28	7.97	6.74
Michigan	5.81	5.44	4.82	4.63	4.71	4.80	4.99	4.75
Minnesota	4.44	4.50	3.99	3.89	4.16	5.23	6.02	4.63
Mississippi	R4.41	4.79	5.08	4.93	4.61	5.17	5.61	5.22
Missouri	5.11	4.86	4.39	4.55	5.07	6.47	6.58	5.35
Montana	5.62	5.39	4.81	4.52	4.57	4.45	4.46	4.64
Nebraska	3.56	5.88	5.00	3.91	4.23	5.24	5.91	4.47
Nevada	5.11	5.07	5.12	5.18	4.95	4.86	4.97	4.90
New Hampshire	6.49	6.20	5.86	6.52	8.67	8.81	8.41	6.74
New Jersey	4.32	4.38	5.77	5.57	6.99	7.10	6.73	6.14
New Mexico	5.47	7.67	4.23	4.63	3.54	4.37	5.36	3.35
New York	4.22	4.99	5.84	6.20	6.85	7.53	8.13	6.88
North Carolina	6.44	5.99	6.02	6.50	7.85	7.67	7.52	6.18
North Dakota	4.96	4.54	4.25	3.66	3.65	4.09	4.24	3.91
Ohio	6.76	7.00	6.08	6.18	6.03	6.74	6.45	5.38
Oklahoma	4.93	5.15	4.97	4.81	5.26	5.75	6.40	4.70
Oregon	4.76	4.79	4.62	4.61	4.57	4.55	4.56	4.85
Pennsylvania	8.12	8.13	7.99	7.70	7.37	7.55	7.07	6.44
Rhode Island	8.96	8.77	8.07	8.46	8.17	8.20	7.88	7.50
South Carolina	5.90	5.92	5.92	6.59	7.20	6.87	7.18	6.26
South Dakota	5.44	6.09	4.77	4.04	3.96	4.28	4.61	4.20
Tennessee	5.91	R5.43	5.39	5.01	R6.05	6.19	6.51	5.72
Texas	4.51	4.80	4.60	4.29	4.42	5.28	6.00	4.27
Utah	3.82	3.60	3.37	3.09	3.81	3.75	3.81	3.38
Vermont	5.42	5.41	5.58	5.10	5.15	5.21	5.24	5.24
Virginia	6.68	6.10	6.31	6.29	5.93	6.61	6.97	5.93
Washington	NA	NA	4.83	4.21	4.71	4.72	4.65	4.80
West Virginia	8.53	7.78	6.81	6.42	6.22	6.13	6.09	6.03
Wisconsin	4.30	4.74	3.83	5.07	5.03	5.60	6.14	4.83
Wyoming	4.11	3.93	2.65	3.59	3.46	3.53	3.41	3.68
Total	R5.34	5.61	R5.39	R5.47	R5.74	R6.10	6.15	5.40

R = Revised Data.
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				
				July	June	May	April	March
Alabama	3.28	3.44	3.67	3.15	3.11	3.16	3.44	3.03
Alaska	1.43	1.53	1.45	1.22	1.40	1.43	1.42	1.45
Arizona	3.48	3.85	3.82	3.36	3.51	3.44	3.45	3.33
Arkansas	3.54	3.58	3.14	3.47	3.28	3.28	3.39	3.78
California	3.80	4.09	3.70	3.48	3.38	2.88	3.97	3.31
Colorado	NA	2.52	0.63	NA	NA	2.48	2.26	2.62
Connecticut	4.53	4.89	4.94	3.61	3.69	4.13	4.55	4.74
Delaware	4.21	4.25	4.12	4.32	4.35	4.32	4.63	3.79
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.42	4.48	4.23	4.37	4.20	4.46	4.58	4.40
Georgia	5.20	5.32	4.73	3.85	4.90	5.30	5.15	5.18
Hawaii	—	—	—	—	—	—	—	—
Idaho [a]	3.08	2.74	2.90	2.97	3.10	3.09	3.10	3.25
Illinois	4.09	4.69	4.04	3.10	4.49	4.18	4.02	4.08
Indiana	NA	4.30	3.51	NA	[R]4.53	4.51	NA	4.56
Iowa	1.60	3.93	3.49	4.14	3.18	[R]3.39	0.73	0.64
Kansas	3.14	3.53	2.88	2.44	3.11	3.31	3.56	3.61
Kentucky	3.91	4.21	3.78	3.61	3.48	3.21	3.85	3.79
Louisiana	2.53	2.88	2.89	2.30	2.43	2.62	2.19	2.89
Maine	5.33	5.66	5.37	4.17	[R]4.10	[R]4.70	6.02	6.02
Maryland	NA	4.76	5.34	6.15	NA	5.02	5.10	4.68
Massachusetts	6.17	6.31	5.65	4.83	[R]4.89	[R]4.66	6.64	6.77
Michigan	3.94	4.16	3.88	4.77	4.32	4.01	3.81	3.61
Minnesota	2.93	3.16	2.93	2.84	2.09	3.03	3.06	3.08
Mississippi	NA	3.41	3.44	NA	NA	NA	NA	NA
Missouri	4.53	4.61	4.24	3.73	4.27	4.25	4.30	4.27
Montana	4.75	4.83	4.82	6.88	3.72	[R]5.89	5.22	5.02
Nebraska	3.31	3.62	3.12	3.20	3.34	[R]3.34	3.35	3.34
Nevada	5.92	7.26	4.92	5.86	5.81	5.94	5.84	6.00
New Hampshire	4.69	4.99	4.39	3.58	[R]3.38	[R]3.90	3.77	5.47
New Jersey	3.41	3.96	3.95	3.17	3.39	3.43	3.42	3.24
New Mexico	3.47	3.26	2.99	3.13	3.45	3.77	4.00	4.09
New York	NA	5.03	5.23	NA	NA	NA	4.49	15.18
North Carolina	4.04	4.81	4.25	3.60	3.57	3.68	3.63	4.19
North Dakota	3.06	3.04	3.24	2.85	2.60	3.15	3.10	3.22
Ohio	NA	5.80	4.11	NA	5.05	4.98	5.21	5.67
Oklahoma	3.81	4.09	3.10	3.41	3.43	3.13	3.32	4.12
Oregon	NA	3.55	3.20	NA	3.77	3.75	NA	NA
Pennsylvania	4.40	4.91	4.20	3.94	4.09	4.05	4.40	4.57
Rhode Island	NA	4.35	4.54	3.59	3.58	NA	3.86	4.06
South Carolina	3.42	3.63	3.79	3.37	3.21	3.31	3.42	3.53
South Dakota	3.34	3.94	2.84	3.21	3.54	3.44	3.37	3.38
Tennessee	NA	NA	3.88	4.37	3.50	3.54	3.64	3.59
Texas	2.47	2.69	2.48	2.53	2.24	2.44	2.49	2.49
Utah	3.02	2.43	2.10	3.20	2.78	2.90	2.95	3.05
Vermont	2.91	3.09	3.59	2.78	2.78	2.87	2.86	2.94
Virginia	4.03	4.53	4.18	3.61	3.44	3.01	3.45	4.08
Washington	NA	NA	2.51	NA	NA	NA	NA	NA
West Virginia	NA	2.91	2.74	NA	NA	NA	2.97	2.79
Wisconsin	4.01	4.02	3.37	3.76	3.44	3.69	4.20	4.17
Wyoming	NA	3.37	3.10	NA	3.82	4.19	4.12	NA
Total	3.30	3.55	3.40	2.99	[R]2.95	[R]3.10	3.22	3.41

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					
	February	January	Total	December	November	October	September	August
Alabama	3.50	3.47	3.46	3.57	3.62	3.66	3.21	3.21
Alaska	1.52	1.56	1.54	1.56	1.55	1.54	1.57	1.56
Arizona	3.76	3.53	3.56	3.37	3.20	3.68	3.26	3.10
Arkansas	3.62	3.77	3.70	3.98	4.28	3.87	3.58	3.57
California	5.34	4.55	4.07	4.45	4.63	4.28	3.50	3.42
Colorado	2.58	2.69	2.65	R2.74	R3.56	2.95	2.40	2.28
Connecticut	5.13	5.12	4.72	4.81	4.96	4.29	4.07	3.86
Delaware	4.08	4.22	4.32	4.60	4.69	4.55	4.06	4.07
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.29	4.59	4.63	4.94	5.21	5.02	4.79	4.64
Georgia	5.37	5.63	5.18	4.61	5.04	4.80	6.43	4.68
Hawaii	—	—	—	—	—	—	—	—
Idaho [a]	3.02	3.06	2.73	2.77	2.74	2.72	2.69	2.68
Illinois	4.12	4.22	4.71	4.92	5.69	4.57	3.83	4.48
Indiana	4.29	4.68	4.11	4.28	3.48	3.57	4.07	3.95
Iowa	2.42	3.43	4.12	4.56	4.55	4.42	3.90	3.52
Kansas	3.67	3.91	R3.63	R3.94	4.18	4.33	3.44	3.10
Kentucky	4.51	4.59	4.36	5.01	5.39	4.35	3.99	3.87
Louisiana	2.22	2.90	2.96	3.12	3.52	3.54	2.86	2.49
Maine	6.02	6.02	5.55	7.19	5.88	4.68	4.65	4.43
Maryland	4.82	5.42	4.76	5.49	5.32	4.36	4.87	4.49
Massachusetts	6.70	6.79	R6.04	7.02	6.63	4.54	4.19	4.02
Michigan	4.11	3.90	4.19	4.19	4.24	4.51	4.16	4.53
Minnesota	3.00	3.25	3.26	3.24	3.86	3.80	3.06	2.74
Mississippi	3.22	NA	3.49	3.53	4.04	3.86	R3.26	R3.24
Missouri	4.69	5.30	4.62	5.36	5.04	4.35	3.89	3.88
Montana	4.85	4.82	4.87	4.93	4.88	4.99	4.98	4.98
Nebraska	3.27	3.30	3.74	3.97	4.32	4.15	3.48	3.38
Nevada	6.06	5.90	7.89	8.10	9.69	11.58	9.23	7.42
New Hampshire	5.84	7.08	4.94	7.42	6.53	4.54	3.47	3.46
New Jersey	3.42	3.71	R3.84	4.33	4.41	3.79	3.31	2.72
New Mexico	5.84	2.16	3.12	2.38	2.96	3.56	3.24	3.02
New York	NA	NA	R4.92	5.42	5.48	4.95	3.88	R3.71
North Carolina	4.41	4.95	R4.73	5.10	5.05	4.13	4.30	R4.22
North Dakota	3.01	3.22	3.23	3.43	3.85	4.07	3.35	3.66
Ohio	5.06	5.62	5.70	5.60	5.54	4.99	5.55	5.38
Oklahoma	4.18	4.10	4.05	4.26	4.37	4.10	3.44	3.33
Oregon	3.73	3.67	R3.50	3.91	3.65	R3.37	3.03	2.96
Pennsylvania	4.55	4.80	4.73	4.56	4.59	4.46	4.21	4.14
Rhode Island	4.25	4.59	4.33	5.04	4.59	4.28	4.08	3.66
South Carolina	3.38	3.67	3.68	3.95	4.26	3.97	3.23	3.25
South Dakota	3.25	3.30	4.01	3.71	4.36	4.64	4.16	3.96
Tennessee	3.98	NA	NA	4.47	R4.33	4.16	R3.63	3.44
Texas	2.44	2.66	NA	2.80	3.51	3.29	NA	2.34
Utah	3.19	3.06	2.62	3.11	2.98	2.81	2.61	2.81
Vermont	3.01	3.06	3.07	3.11	3.12	2.97	3.00	2.96
Virginia	4.99	4.81	4.25	4.27	3.97	3.44	3.98	3.95
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	2.75	2.81	2.87	2.75	2.68	2.89	2.93	2.84
Wisconsin	4.48	3.79	4.12	4.53	5.05	4.19	3.54	3.24
Wyoming	NA	3.29	3.39	3.55	3.55	3.32	3.32	3.34
Total	3.52	3.68	R3.55	3.79	R4.08	3.66	R3.20	R2.94

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
	July	June	May	April	March	February	January	Total
Alabama	3.08	3.20	3.19	2.96	3.15	3.91	4.57	3.64
Alaska	1.56	1.48	1.44	1.53	1.55	1.57	1.55	1.41
Arizona	3.16	3.90	3.90	4.31	4.06	3.74	4.32	3.80
Arkansas	3.42	3.37	3.17	3.19	3.31	3.78	4.45	3.28
California	3.79	4.00	2.51	3.45	4.24	5.32	5.49	3.77
Colorado	2.19	2.17	2.30	2.17	R2.29	R3.12	3.89	2.91
Connecticut	3.93	4.02	4.22	4.46	4.91	5.76	6.11	4.80
Delaware	4.04	3.99	3.62	3.62	4.35	5.03	5.29	4.32
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.32	4.40	4.34	4.41	4.42	4.68	4.69	4.21
Georgia	4.81	6.14	4.67	4.39	5.07	5.63	6.40	4.40
Hawaii	—	—	—	—	—	—	—	—
Idaho [a]	2.80	2.52	2.73	2.75	2.75	2.76	2.78	2.78
Illinois	4.15	3.16	3.00	4.10	4.80	5.86	6.49	4.12
Indiana	3.91	4.38	4.50	4.67	4.41	4.21	4.19	3.62
Iowa	4.11	3.37	3.96	3.14	4.04	4.73	3.94	3.63
Kansas	3.01	3.03	R3.47	R2.72	R2.86	R4.00	R5.27	3.09
Kentucky	3.90	3.61	3.73	3.82	3.97	4.67	4.78	3.87
Louisiana	2.76	2.71	2.39	2.34	2.09	3.49	4.19	2.84
Maine	4.40	4.45	4.10	5.77	7.08	7.10	6.95	5.22
Maryland	5.38	4.67	4.71	20.15	5.67	R1.64	5.31	5.36
Massachusetts	4.19	3.73	R5.22	6.35	7.12	8.35	7.49	5.37
Michigan	4.60	4.41	4.24	4.12	4.15	4.02	4.16	3.87
Minnesota	2.74	2.72	2.67	2.58	2.74	3.73	4.66	2.97
Mississippi	R3.17	3.21	3.06	2.98	2.93	3.80	4.45	3.43
Missouri	3.81	3.81	3.45	3.78	4.48	5.94	5.35	4.35
Montana	4.96	4.88	4.85	4.84	4.84	4.80	4.79	4.88
Nebraska	3.09	3.02	2.77	2.66	3.19	4.14	5.16	3.29
Nevada	7.08	7.50	7.77	5.80	4.67	8.34	9.50	4.90
New Hampshire	3.42	3.62	3.59	4.02	6.10	7.97	7.94	4.79
New Jersey	3.35	3.32	3.09	2.87	4.82	R5.05	4.92	3.82
New Mexico	2.92	3.71	2.96	5.10	3.40	4.02	3.01	2.90
New York	R3.84	4.32	4.49	4.58	5.22	5.72	5.93	5.04
North Carolina	4.00	3.64	4.01	4.14	4.80	5.41	5.63	4.37
North Dakota	3.14	3.02	2.42	2.37	1.60	4.94	4.39	3.02
Ohio	4.42	6.70	4.50	5.96	5.49	6.71	5.77	4.10
Oklahoma	3.34	3.32	2.75	3.08	3.90	4.53	5.41	3.26
Oregon	3.15	3.10	R3.48	3.57	3.68	3.80	3.73	3.24
Pennsylvania	4.59	4.70	4.48	4.73	4.91	5.25	5.25	4.12
Rhode Island	3.78	3.74	4.72	3.56	4.50	5.52	5.64	4.67
South Carolina	3.40	3.32	3.26	3.21	3.43	4.22	4.74	3.77
South Dakota	4.49	4.08	3.55	3.12	3.00	4.00	4.99	3.50
Tennessee	3.09	R3.47	3.19	3.40	NA	4.75	4.80	3.92
Texas	2.41	2.46	2.31	2.03	2.08	3.19	4.10	2.58
Utah	2.70	2.27	2.27	2.31	2.53	2.53	2.44	2.10
Vermont	2.97	3.01	3.05	2.98	3.10	3.14	3.32	3.44
Virginia	3.82	3.88	4.03	3.11	4.79	5.51	6.33	4.07
Washington	NA	NA	2.94	2.75	2.88	3.58	4.36	2.67
West Virginia	2.91	2.72	2.81	2.49	2.78	3.03	3.44	2.76
Wisconsin	3.20	3.28	2.98	3.89	3.55	4.41	5.06	3.48
Wyoming	3.38	3.35	3.24	3.40	3.40	3.41	3.40	3.14
Total	R3.05	3.07	R2.93	3.00	R3.37	R4.22	R4.65	3.42

R = Revised Data.
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				
				June	May	April	March	February
Alabama	2.56	2.71	2.77	2.49	2.62	2.69	2.55	2.44
Alaska	1.85	1.66	1.27	1.87	1.84	1.84	1.85	1.88
Arizona	2.85	3.38	3.15	2.79	3.20	2.82	3.07	2.56
Arkansas	2.36	2.45	2.55	2.33	2.33	2.56	2.36	2.16
California	2.83	3.11	2.66	2.70	2.94	2.71	2.85	2.79
Colorado	2.70	3.52	1.79	2.83	2.56	2.53	2.61	2.65
Connecticut	2.54	2.49	2.68	2.38	2.56	2.70	2.79	2.63
Delaware	2.74	3.09	3.70	3.27	1.34	1.41	4.15	3.21
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.41	3.08	3.18	2.31	2.31	2.68	2.64	2.49
Georgia	2.95	2.98	3.67	2.91	3.72	1.94	1.72	2.88
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.37	2.35	2.77	2.37	2.37	2.55	2.34	2.28
Indiana	3.03	3.21	3.46	2.95	2.98	3.37	3.25	2.64
Iowa	3.09	3.34	3.34	2.86	3.16	3.14	3.35	3.00
Kansas	2.24	2.33	2.22	2.14	2.20	2.40	2.36	1.97
Kentucky	3.74	3.46	3.59	3.68	3.59	5.25	4.04	3.58
Louisiana	2.51	2.70	3.09	2.40	2.52	2.66	2.51	2.47
Maine	—	—	—	—	—	—	—	—
Maryland	3.08	3.11	3.51	2.93	2.96	3.33	3.18	3.32
Massachusetts	3.03	2.94	3.64	2.24	2.86	3.66	3.64	2.95
Michigan	1.03	0.62	0.81	1.29	1.20	1.35	0.75	0.84
Minnesota	2.61	2.32	2.28	2.42	2.74	2.76	2.83	2.62
Mississippi	2.43	2.63	3.33	2.36	2.41	2.56	2.46	2.46
Missouri	2.41	2.73	2.56	2.41	2.31	2.56	2.52	2.82
Montana	6.20	5.60	7.37	2.59	5.34	1.40	12.33	8.49
Nebraska	2.39	2.18	1.85	2.37	2.40	1.98	2.72	4.47
Nevada	2.41	2.06	2.05	2.73	2.44	2.31	2.02	2.37
New Hampshire	—	2.72	—	—	—	—	—	—
New Jersey	2.81	2.94	3.12	2.73	2.77	3.05	2.88	2.83
New Mexico	2.33	2.56	2.10	2.20	2.33	2.41	2.39	2.30
New York	2.77	2.81	3.21	2.51	2.64	2.87	2.96	2.95
North Carolina	2.83	2.85	2.85	2.78	2.89	3.37	4.03	—
North Dakota	—	3.49	3.00	—	—	—	—	—
Ohio	3.15	3.57	3.41	2.79	3.06	4.01	4.14	3.16
Oklahoma	2.76	3.12	3.12	2.41	2.52	2.88	2.62	2.72
Oregon	1.24	1.70	—	1.31	1.50	1.36	1.23	1.03
Pennsylvania	3.16	3.01	3.44	2.32	5.37	5.94	2.69	2.64
Rhode Island	3.37	3.21	2.29	3.40	3.43	3.45	3.19	3.24
South Carolina	3.74	3.61	4.14	3.92	3.41	3.44	3.58	3.53
South Dakota	—	—	—	—	—	—	—	—
Tennessee	—	—	1.20	—	—	—	—	—
Texas	2.41	2.60	2.44	2.34	2.38	2.52	2.43	2.41
Utah	1.94	4.82	9.53	1.94	—	—	—	—
Vermont	2.92	3.08	3.03	2.81	3.03	3.08	2.81	2.77
Virginia	3.22	2.84	2.89	2.93	2.99	4.46	3.34	3.78
Washington	2.79	7.15	5.16	—	—	5.59	3.86	4.11
West Virginia	3.56	4.08	3.58	2.62	3.58	—	—	—
Wisconsin	2.81	2.93	2.89	2.64	2.95	3.13	2.75	2.91
Wyoming	8.52	11.54	12.75	7.66	11.70	4.77	10.42	8.72
Total	2.50	2.75	2.70	2.40	2.46	2.59	2.54	2.51

See footnotes at end of table.

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

(Dollars per Thousand Cubic Feet) — Continued

State	1998	1997						
	January	Total	December	November	October	September	August	July
Alabama	2.86	2.76	2.90	3.70	3.75	2.88	2.56	2.51
Alaska	1.85	1.74	1.84	1.84	1.85	1.88	1.69	1.87
Arizona	2.84	2.99	2.86	4.00	3.11	3.37	2.63	2.20
Arkansas	2.25	2.60	2.24	3.12	3.12	2.89	2.64	2.38
California	2.94	3.07	2.96	3.64	3.40	3.14	2.81	2.69
Colorado	3.01	3.21	2.93	3.90	2.37	2.42	2.77	4.07
Connecticut	2.74	2.55	2.74	3.38	2.76	2.37	2.35	2.33
Delaware	5.34	3.15	4.28	2.58	5.69	3.40	3.00	2.83
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.25	3.20	3.19	4.06	4.05	3.41	2.97	2.94
Georgia	2.35	2.76	4.97	3.33	3.94	3.07	2.27	2.75
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.25	2.54	2.48	3.31	3.13	2.82	2.39	2.31
Indiana	3.84	3.27	3.67	4.03	5.25	3.67	3.39	2.77
Iowa	3.36	3.27	2.99	4.16	3.81	3.28	3.12	2.70
Kansas	3.35	2.48	3.33	3.02	3.05	2.70	2.13	2.06
Kentucky	3.46	3.34	3.47	4.24	4.00	3.25	2.92	2.87
Louisiana	2.61	2.80	2.86	3.61	3.40	3.03	2.60	2.44
Maine	—	—	—	—	—	—	—	—
Maryland	3.75	2.97	3.61	4.10	3.91	3.42	2.89	2.35
Massachusetts	3.16	3.11	3.57	4.08	4.08	3.21	2.87	2.81
Michigan	0.51	0.79	0.47	1.08	1.59	0.73	0.58	0.96
Minnesota	2.63	2.54	2.99	3.72	3.67	3.56	2.43	2.43
Mississippi	2.48	2.75	2.80	3.51	3.35	3.02	2.61	2.46
Missouri	2.63	2.67	2.77	3.52	3.35	2.94	2.51	2.39
Montana	4.61	7.62	4.18	6.84	2.98	64.31	1.92	1.37
Nebraska	2.72	2.58	4.94	4.29	3.21	2.98	2.49	2.32
Nevada	2.41	2.17	2.16	2.80	2.64	2.39	2.02	1.98
New Hampshire	—	2.71	—	—	—	2.85	2.55	2.74
New Jersey	2.98	3.07	3.20	4.19	4.23	3.42	2.87	2.80
New Mexico	2.43	2.64	2.55	3.02	3.05	2.82	2.47	2.46
New York	3.00	2.89	3.38	3.83	3.39	2.89	2.60	2.58
North Carolina	3.02	3.16	3.60	4.95	3.68	3.38	3.09	3.12
North Dakota	—	3.81	—	—	—	—	—	4.00
Ohio	3.32	3.66	4.13	4.12	4.00	4.35	4.28	3.10
Oklahoma	4.47	2.97	2.89	4.05	3.46	3.20	2.48	2.37
Oregon	1.14	1.48	1.48	1.44	1.45	1.49	1.49	1.35
Pennsylvania	2.79	2.86	3.16	3.69	3.65	2.99	2.81	2.54
Rhode Island	3.48	3.39	3.78	4.05	4.02	3.32	3.04	2.98
South Carolina	4.05	4.15	4.46	4.00	4.10	4.54	4.54	4.35
South Dakota	—	—	—	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	2.49	2.70	2.74	3.33	3.15	2.85	2.50	2.39
Utah	—	2.11	—	—	2.00	2.66	1.79	1.86
Vermont	3.02	3.27	3.42	4.21	3.96	—	2.90	2.95
Virginia	3.05	2.99	2.54	4.09	4.73	3.77	2.95	2.58
Washington	1.64	5.54	5.73	5.16	4.21	8.62	0.67	4.83
West Virginia	5.59	3.87	3.31	3.00	3.29	3.41	3.71	3.79
Wisconsin	2.90	3.04	2.92	4.11	3.94	3.09	2.85	3.12
Wyoming	5.39	9.31	1.63	3.43	4.88	7.74	34.13	20.44
Total	2.64	2.81	2.85	3.48	3.30	2.99	2.58	2.49

See footnotes at end of table.

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

(Dollars per Thousand Cubic Feet) — Continued

State	1997						1996	
	June	May	April	March	February	January	Total	December
Alabama	2.65	2.44	3.21	2.12	2.04	4.37	2.95	4.32
Alaska	1.79	1.64	1.63	1.55	1.69	1.68	1.45	1.64
Arizona	3.03	3.11	4.47	2.85	4.01	5.70	3.03	7.53
Arkansas	2.40	1.92	1.98	1.60	1.92	4.18	2.52	3.88
California	2.75	2.60	2.63	3.04	4.14	4.67	2.75	4.55
Colorado	2.31	6.20	2.47	2.26	3.32	3.76	2.09	4.30
Connecticut	2.26	2.22	2.22	2.45	3.08	3.97	2.76	4.97
Delaware	1.95	3.68	2.53	2.61	2.90	4.87	3.13	4.06
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.03	2.87	2.58	2.62	3.80	5.18	3.12	4.75
Georgia	3.13	2.64	2.64	3.34	8.15	2.08	2.88	6.28
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.37	2.29	2.12	2.00	2.93	3.34	2.62	3.82
Indiana	2.99	3.06	2.88	2.74	3.74	5.04	3.48	4.80
Iowa	3.28	2.89	2.79	2.73	3.74	5.11	3.23	3.77
Kansas	2.11	2.14	2.00	1.80	2.92	4.56	2.25	4.10
Kentucky	2.96	2.83	3.13	3.20	3.69	4.85	3.49	4.64
Louisiana	2.65	2.45	2.18	2.10	2.93	4.35	2.94	4.37
Maine	—	—	—	—	—	—	—	—
Maryland	2.69	2.98	3.14	4.18	5.75	5.04	3.11	5.92
Massachusetts	2.92	2.84	2.54	2.64	3.29	5.37	3.07	4.85
Michigan	0.84	0.42	0.61	0.69	0.59	0.56	0.74	0.55
Minnesota	2.34	2.30	2.34	2.17	3.35	2.26	2.18	2.32
Mississippi	2.52	2.37	2.27	2.08	2.61	4.15	2.78	4.27
Missouri	2.44	2.74	2.77	2.26	4.62	5.41	2.58	4.90
Montana	9.35	13.57	2.87	4.08	9.68	3.54	2.89	1.81
Nebraska	2.00	1.89	1.89	2.29	3.20	3.22	2.07	4.37
Nevada	2.09	1.99	2.02	2.05	2.33	2.14	2.12	2.19
New Hampshire	2.72	2.68	—	—	—	—	—	—
New Jersey	2.85	2.76	2.69	2.57	3.60	4.65	2.96	4.39
New Mexico	2.38	2.39	2.07	2.01	2.85	4.07	2.31	3.80
New York	2.65	2.62	2.53	2.56	3.35	4.36	2.96	4.22
North Carolina	2.87	2.64	2.79	—	—	6.89	3.11	4.41
North Dakota	—	4.14	3.98	2.93	—	—	2.93	2.81
Ohio	3.20	4.13	4.06	4.03	4.16	3.87	3.44	4.27
Oklahoma	2.63	2.91	2.57	2.88	4.36	4.21	2.98	4.43
Oregon	1.57	—	—	1.40	—	1.96	1.33	2.01
Pennsylvania	3.04	2.57	2.31	2.72	2.91	4.65	2.85	4.57
Rhode Island	3.21	3.09	2.82	2.90	4.09	3.18	2.29	3.14
South Carolina	3.51	3.84	3.87	2.84	4.22	6.95	4.56	5.08
South Dakota	—	—	—	—	—	—	2.36	—
Tennessee	—	—	—	—	—	—	2.61	—
Texas	2.46	2.34	2.14	2.12	2.85	3.89	2.51	3.80
Utah	4.82	—	—	—	—	—	1.83	—
Vermont	—	2.83	2.27	2.61	3.60	5.05	3.22	4.42
Virginia	2.93	3.05	2.71	2.76	1.80	3.13	2.98	3.42
Washington	3.83	7.21	5.93	65.04	4.50	5.11	4.98	4.75
West Virginia	3.23	3.22	3.63	3.82	7.68	3.15	2.99	2.94
Wisconsin	2.81	2.58	2.46	2.33	3.42	4.74	3.04	4.29
Wyoming	4.00	11.82	24.02	22.85	2.47	13.99	12.59	26.41
Total	2.59	2.51	2.34	2.39	3.18	4.08	2.69	3.98

[a] 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 July	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	70.1	16.0	61.9	18.1	83.6	23.6	71.8	14.5
Alaska	57.8	99.5	56.5	97.4	68.2	62.6	56.0	96.5
Arizona	85.8	32.7	85.4	21.3	86.5	21.0	84.1	32.8
Arkansas	NA	9.3	94.6	11.3	95.6	13.4	48.8	7.7
California	52.1	11.2	53.0	10.6	57.9	10.7	31.4	9.5
Colorado	NA	NA	95.2	23.8	93.7	18.4	NA	NA
Connecticut	71.6	57.2	86.1	68.4	89.5	92.3	62.4	57.1
Delaware	100.0	23.7	100.0	31.8	100.0	42.8	100.0	17.8
District of Columbia	54.6	—	57.5	—	78.2	—	40.4	—
Florida	96.4	4.0	97.0	7.2	97.2	14.1	96.0	4.2
Georgia	85.7	14.3	89.0	16.7	95.7	33.9	68.9	5.1
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	87.8	2.4	87.4	2.6	88.0	1.3	83.9	2.7
Illinois	49.4	8.5	55.4	10.8	55.0	14.2	35.4	4.9
Indiana	NA	NA	76.5	13.7	97.1	18.2	NA	NA
Iowa	81.6	11.3	88.6	6.9	88.8	7.4	69.6	5.3
Kansas	71.0	8.0	66.1	5.2	73.6	7.4	58.8	13.4
Kentucky	87.2	14.3	89.7	16.8	91.6	31.4	76.4	15.2
Louisiana	NA	7.1	98.3	8.8	98.3	10.1	69.7	6.9
Maine	100.0	92.5	100.0	92.7	100.0	91.7	100.0	84.1
Maryland	49.2	NA	76.0	8.7	92.7	15.4	29.0	2.5
Massachusetts	59.7	NA	64.4	20.0	80.8	29.0	48.4	16.8
Michigan	60.5	7.2	65.2	7.5	69.1	10.3	38.1	4.4
Minnesota	94.6	40.3	98.5	40.0	97.2	41.3	97.2	34.8
Mississippi	NA	NA	95.5	36.6	97.6	41.7	NA	NA
Missouri	81.9	19.2	81.2	21.7	84.7	26.6	65.6	16.4
Montana	NA	3.2	91.1	3.5	92.2	3.7	69.1	0.7
Nebraska	75.9	17.5	73.5	22.1	74.2	21.0	65.6	5.7
Nevada	74.6	1.8	73.4	2.1	76.7	1.8	66.3	4.0
New Hampshire	NA	37.2	95.2	54.7	97.9	57.2	89.1	34.9
New Jersey	57.2	47.0	69.4	47.6	76.3	56.9	47.4	25.6
New Mexico	62.3	11.4	66.7	12.0	63.1	2.1	46.7	17.9
New York	NA	NA	60.0	6.2	NA	10.9	NA	NA
North Carolina	90.7	27.2	94.0	37.4	98.5	70.3	83.3	26.4
North Dakota	85.0	27.8	90.1	44.4	89.3	18.7	80.8	22.9
Ohio	NA	NA	66.1	4.5	72.3	8.1	NA	NA
Oklahoma	76.7	4.1	87.6	5.2	86.3	7.1	55.4	2.1
Oregon	NA	NA	98.7	18.7	98.4	21.2	98.9	NA
Pennsylvania	NA	14.0	63.8	14.6	74.8	19.9	51.4	12.3
Rhode Island	NA	NA	85.3	18.2	97.9	18.9	48.5	31.2
South Carolina	98.1	86.4	97.7	83.9	99.5	86.0	97.4	87.5
South Dakota	84.1	34.0	85.4	23.7	85.0	29.9	75.4	22.5
Tennessee	NA	NA	90.1	NA	96.0	51.6	63.7	20.3
Texas	62.0	14.1	61.8	17.8	84.2	20.8	48.8	12.1
Utah	82.8	8.3	83.9	9.1	82.4	9.0	70.7	7.5
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	72.9	12.8	77.4	11.0	87.7	19.3	69.4	8.4
Washington	NA	NA	NA	NA	86.6	27.8	NA	NA
West Virginia	NA	NA	56.0	12.1	57.0	14.9	7.6	NA
Wisconsin	74.0	20.5	83.5	30.2	92.7	40.1	45.1	12.6
Wyoming	NA	NA	69.5	1.8	93.1	3.3	NA	NA
Total	67.6	14.7	71.6	16.9	79.8	20.3	51.2	12.6

See footnotes at end of table.

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

State	1998							
	June		May		April		March	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	74.7	14.5	35.4	13.3	80.2	14.8	77.8	17.4
Alaska	53.6	100.0	55.9	100.0	57.4	100.0	57.6	100.0
Arizona	86.2	33.8	83.3	35.8	84.9	32.7	86.7	34.0
Arkansas	NA	9.0	R88.7	9.0	89.5	9.1	93.9	10.2
California	52.9	11.2	48.3	11.7	52.7	10.9	71.1	16.5
Colorado	91.8	NA	95.0	1.0	R95.8	0.8	R96.0	1.2
Connecticut	61.2	52.9	76.3	55.7	62.3	61.9	71.2	59.4
Delaware	100.0	19.3	100.0	19.5	100.0	23.3	100.0	27.9
District of Columbia	41.9	—	47.7	—	52.5	—	60.1	—
Florida	96.6	4.3	96.7	3.5	96.8	4.5	96.2	4.4
Georgia	79.0	15.1	82.0	15.7	85.5	13.4	87.5	17.2
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	85.3	1.8	85.4	2.2	86.4	2.2	88.1	2.0
Illinois	45.8	5.2	34.8	6.8	44.3	9.1	55.3	10.6
Indiana	NA	R4.2	76.7	6.2	NA	NA	88.6	12.3
Iowa	70.3	4.5	87.3	R5.4	82.8	19.9	72.1	22.8
Kansas	54.2	10.7	68.5	8.1	69.5	5.6	76.9	5.5
Kentucky	82.6	13.8	84.2	14.7	85.7	14.7	90.0	13.1
Louisiana	NA	7.0	96.5	7.3	98.1	7.2	58.2	9.8
Maine	R100.0	R87.9	R100.0	R84.1	100.0	97.9	100.0	97.9
Maryland	33.3	NA	29.7	9.0	42.9	1.6	50.9	5.1
Massachusetts	46.3	NA	52.8	R28.8	60.0	27.5	65.5	29.0
Michigan	40.8	4.8	42.2	5.9	58.3	9.6	64.3	12.1
Minnesota	98.2	40.7	98.5	35.1	96.1	38.9	96.2	48.8
Mississippi	NA	NA	NA	NA	NA	NA	NA	NA
Missouri	69.4	13.0	75.7	14.0	82.0	17.4	83.3	21.5
Montana	75.3	4.4	NA	R1.2	79.4	2.2	83.1	3.5
Nebraska	66.3	13.5	74.0	14.8	71.5	21.3	77.3	24.0
Nevada	70.9	4.6	71.9	4.8	73.2	5.8	75.9	7.1
New Hampshire	NA	R32.7	R94.3	R38.9	96.2	47.0	96.1	39.1
New Jersey	51.5	27.7	46.0	26.4	55.2	29.2	62.4	29.5
New Mexico	39.7	13.9	49.8	9.6	58.2	6.3	67.3	1.5
New York	NA	NA	NA	NA	58.1	10.1	NA	10.1
North Carolina	82.5	24.3	86.7	26.9	90.6	31.2	91.1	26.6
North Dakota	82.1	24.3	79.2	15.4	80.0	25.3	87.0	32.1
Ohio	44.7	1.3	41.4	1.5	53.9	2.7	60.1	3.2
Oklahoma	63.6	2.2	70.4	2.9	75.0	4.9	77.7	5.2
Oregon	98.9	14.9	98.8	15.0	NA	NA	NA	NA
Pennsylvania	54.9	12.7	59.4	13.2	NA	13.3	57.7	14.2
Rhode Island	53.3	33.4	NA	NA	NA	41.2	64.7	49.9
South Carolina	97.4	88.2	98.2	87.7	98.4	86.0	98.2	84.9
South Dakota	72.8	24.9	65.9	15.8	93.7	56.2	85.6	37.9
Tennessee	66.6	23.3	77.4	23.9	75.8	29.3	93.1	28.1
Texas	63.8	15.2	55.9	14.1	59.8	14.5	61.3	15.2
Utah	75.6	9.1	73.7	8.9	82.5	7.9	81.2	8.6
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	66.8	9.3	70.0	13.0	70.9	11.2	73.4	19.2
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	NA	NA	29.0	NA	50.3	5.8	51.9	6.2
Wisconsin	52.4	15.5	53.8	15.1	72.9	19.3	77.6	23.4
Wyoming	NA	2.3	89.8	1.8	91.3	3.4	87.4	NA
Total	60.0	R14.0	60.3	R13.9	67.0	15.0	R71.7	16.5

See footnotes at end of table.

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

State	1998				1997			
	February		January		Total		December	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	80.1	17.8	76.7	19.4	56.8	R18.5	75.3	21.8
Alaska	60.0	100.0	59.9	100.0	54.3	97.8	54.1	100.0
Arizona	87.2	27.7	86.9	32.3	84.5	25.8	85.2	33.8
Arkansas	95.3	10.9	95.5	10.5	93.9	10.6	95.7	10.5
California	54.3	8.7	58.1	11.0	50.2	9.8	54.4	9.9
Colorado	R95.2	1.2	R95.4	2.5	94.2	24.8	94.5	R24.8
Connecticut	78.2	57.8	78.4	61.0	81.8	66.5	76.9	62.9
Delaware	100.0	28.6	100.0	26.4	100.0	29.7	100.0	25.8
District of Columbia	59.0	—	60.2	—	R55.5	—	60.8	—
Florida	96.3	4.0	96.3	4.5	96.6	6.6	94.7	5.7
Georgia	90.3	16.7	88.7	16.5	88.0	16.9	90.6	22.7
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	88.7	3.0	90.0	2.5	86.1	2.2	86.6	2.0
Illinois	50.4	9.8	53.7	10.7	53.3	9.9	51.1	10.7
Indiana	84.6	11.1	85.7	11.2	79.7	13.3	85.7	14.2
Iowa	88.7	7.1	87.4	7.4	87.2	7.7	88.8	8.4
Kansas	73.1	5.3	71.5	5.1	62.2	R5.4	55.9	R4.6
Kentucky	86.5	17.2	90.0	12.3	89.3	15.5	90.6	14.2
Louisiana	60.9	6.0	74.1	5.4	98.3	8.1	98.0	6.3
Maine	100.0	97.9	100.0	97.9	100.0	91.4	100.0	89.7
Maryland	54.7	3.7	65.6	0.7	64.5	6.1	61.1	0.9
Massachusetts	61.4	32.5	64.3	30.3	60.4	R18.4	66.2	31.6
Michigan	65.2	12.6	69.5	13.5	62.8	6.4	64.7	11.8
Minnesota	93.3	37.4	91.9	45.0	98.5	39.7	98.4	40.0
Mississippi	94.8	38.5	NA	NA	94.4	36.8	94.4	38.3
Missouri	85.4	24.0	85.2	23.7	79.9	21.3	82.7	22.9
Montana	83.1	4.3	88.3	4.7	90.8	3.1	92.7	3.8
Nebraska	78.0	23.2	79.9	30.1	70.4	21.5	74.1	20.4
Nevada	79.8	15.3	77.3	7.2	71.3	1.9	72.6	6.9
New Hampshire	96.2	37.2	96.4	30.4	93.4	49.3	94.0	32.4
New Jersey	62.1	34.6	59.4	31.7	66.1	R48.4	62.6	32.9
New Mexico	64.4	1.8	71.5	8.3	66.9	14.2	75.5	16.3
New York	NA	NA	NA	NA	R57.9	R5.8	59.8	8.3
North Carolina	93.1	27.3	93.4	27.6	94.1	R40.0	95.5	30.7
North Dakota	84.9	33.3	89.1	36.1	88.2	38.9	84.8	37.3
Ohio	60.2	4.7	60.5	4.5	64.6	3.9	66.3	5.1
Oklahoma	83.2	5.2	81.1	6.3	85.1	4.6	85.5	5.4
Oregon	99.2	15.3	99.3	19.7	98.5	16.5	98.4	16.0
Pennsylvania	57.2	15.2	58.7	16.3	61.9	13.8	62.4	12.3
Rhode Island	71.6	38.5	64.5	39.7	80.5	17.4	64.0	36.0
South Carolina	98.4	85.4	98.1	85.8	98.0	84.1	97.6	81.5
South Dakota	85.7	45.9	86.5	45.2	83.3	24.0	86.1	34.2
Tennessee	87.8	25.5	NA	NA	89.6	NA	90.8	24.2
Texas	71.6	15.5	68.3	12.3	60.4	NA	66.3	12.9
Utah	89.1	8.5	85.7	7.8	83.2	9.2	86.1	8.5
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	76.7	14.6	74.4	18.7	R75.6	11.8	R68.3	14.4
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	R55.5	14.9	56.0	6.3	51.3	12.1	55.6	11.1
Wisconsin	80.3	23.8	85.4	26.0	80.8	28.5	82.1	27.9
Wyoming	80.3	NA	NA	1.5	73.4	1.8	92.7	1.9
Total	R71.0	15.3	R72.4	14.9	69.3	R16.0	R71.9	15.1

See footnotes at end of table.

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

State	1997							
	November		October		September		August	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	61.7	20.2	42.8	18.2	33.1	17.6	25.1	17.4
Alaska	51.7	100.0	52.1	100.0	49.7	100.0	44.8	92.8
Arizona	83.2	32.0	81.1	31.0	83.9	30.3	78.7	30.1
Arkansas	89.9	11.2	92.2	10.0	90.9	8.7	91.4	7.9
California	49.1	7.9	41.6	6.1	40.9	9.9	41.5	7.7
Colorado	R91.8	R26.7	89.4	29.9	92.1	26.1	86.3	25.1
Connecticut	71.0	67.0	68.5	66.5	74.9	65.5	80.1	62.1
Delaware	100.0	26.3	100.0	29.0	100.0	25.7	100.0	27.5
District of Columbia	60.4	—	44.5	—	35.5	—	38.8	—
Florida	95.2	5.5	96.7	6.0	96.9	6.1	97.3	6.9
Georgia	87.3	18.3	84.5	20.6	81.6	9.1	80.1	15.7
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	83.2	1.9	76.4	1.6	82.5	1.7	82.9	1.4
Illinois	51.5	8.2	49.1	7.1	46.7	10.4	39.4	5.3
Indiana	91.5	19.2	87.4	12.2	75.4	8.4	74.7	7.8
Iowa	84.3	12.0	79.4	10.3	77.2	5.9	84.5	6.5
Kansas	56.7	5.5	66.3	5.5	50.3	6.1	44.9	6.7
Kentucky	89.2	14.4	89.3	14.9	83.9	13.0	79.1	11.5
Louisiana	97.4	7.4	98.4	7.0	98.1	7.1	99.2	8.0
Maine	100.0	92.2	100.0	89.4	100.0	87.8	100.0	88.6
Maryland	37.4	41.7	50.5	5.5	49.0	2.0	54.3	4.9
Massachusetts	60.0	32.2	46.0	25.9	41.4	28.0	39.1	22.4
Michigan	63.9	9.3	53.3	4.2	38.8	3.1	39.8	3.9
Minnesota	99.1	42.0	98.6	38.0	97.7	41.5	98.3	34.2
Mississippi	93.3	35.4	89.5	37.5	R90.8	R39.6	R91.3	R35.4
Missouri	78.3	19.9	68.6	19.6	68.4	22.5	68.7	16.7
Montana	90.4	2.8	87.9	2.3	85.5	1.9	87.4	2.0
Nebraska	68.9	34.2	46.6	17.4	59.0	21.0	64.8	14.4
Nevada	67.9	5.9	65.9	5.5	62.9	4.6	63.1	7.0
New Hampshire	89.1	34.2	85.7	44.2	86.9	48.4	88.1	47.1
New Jersey	58.9	32.2	57.7	27.7	58.1	28.1	59.0	44.0
New Mexico	70.9	14.1	57.2	9.5	52.9	14.6	53.2	18.3
New York	56.6	7.7	49.3	8.1	49.8	6.2	R50.0	R9.9
North Carolina	99.4	78.1	98.2	68.8	86.4	21.2	84.4	R17.6
North Dakota	90.8	35.6	84.0	26.1	74.7	19.4	68.8	28.1
Ohio	66.5	4.2	54.1	1.8	49.5	1.5	48.4	2.0
Oklahoma	78.5	4.3	75.7	3.1	75.5	3.2	73.6	3.0
Oregon	98.4	14.5	97.5	R14.1	98.0	13.2	98.3	12.4
Pennsylvania	61.9	13.9	48.6	12.7	54.6	12.1	56.7	12.5
Rhode Island	80.7	41.2	71.1	39.9	68.7	33.6	67.9	39.6
South Carolina	100.0	86.6	99.9	87.5	98.5	84.8	96.4	82.2
South Dakota	84.0	37.5	68.3	17.8	59.9	14.0	72.1	12.7
Tennessee	92.5	R30.0	86.4	26.8	82.4	R24.3	80.4	19.8
Texas	61.5	12.1	59.4	13.9	47.0	NA	52.3	14.1
Utah	83.1	9.8	80.2	9.2	74.8	12.0	71.7	7.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	88.7	21.2	68.1	13.5	67.6	7.4	64.6	4.9
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	50.3	13.8	35.6	13.2	29.8	11.8	21.6	11.2
Wisconsin	84.7	28.9	67.9	25.7	60.9	22.8	53.8	21.3
Wyoming	79.4	1.3	79.7	2.0	79.2	2.3	75.8	2.1
Total	67.3	R16.1	61.6	15.2	57.5	R13.9	R56.8	R13.8

See footnotes at end of table.

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

State	1997							
	July		June		May		April	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	22.8	R19.7	49.5	17.2	55.5	18.0	59.3	17.3
Alaska	49.7	91.4	50.3	99.0	54.6	99.0	56.9	98.8
Arizona	79.7	31.3	82.7	18.7	86.1	18.1	83.8	20.2
Arkansas	89.9	9.3	90.7	10.2	91.4	11.3	93.5	10.9
California	45.6	7.8	48.2	8.9	49.5	13.0	51.6	10.6
Colorado	88.9	35.1	94.4	27.2	R95.0	25.5	R95.1	30.1
Connecticut	75.9	63.5	79.6	63.7	79.7	65.6	87.1	68.2
Delaware	100.0	27.5	100.0	28.2	100.0	34.4	100.0	35.6
District of Columbia	43.9	—	46.7	—	53.7	—	R48.4	—
Florida	96.9	6.3	97.6	7.5	97.7	6.9	97.8	7.3
Georgia	79.1	17.4	82.7	13.4	83.9	12.9	87.2	15.9
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	83.2	5.2	83.3	2.3	86.5	2.5	86.1	2.1
Illinois	45.8	3.4	54.8	14.7	47.4	13.8	53.1	8.4
Indiana	72.4	9.0	39.6	9.2	38.3	9.6	82.1	10.6
Iowa	75.0	5.3	90.1	5.1	83.2	5.4	90.3	7.2
Kansas	46.8	5.1	56.1	4.6	58.3	R5.3	66.1	R5.3
Kentucky	82.9	12.4	87.7	14.1	85.3	15.7	88.2	14.9
Louisiana	98.8	7.9	98.6	8.3	98.5	9.0	98.1	7.6
Maine	100.0	100.0	100.0	88.5	100.0	91.2	100.0	91.3
Maryland	57.5	3.4	56.5	6.7	62.3	12.5	76.8	1.6
Massachusetts	43.6	23.6	46.1	32.3	67.1	R34.4	72.2	38.5
Michigan	54.7	5.8	44.8	5.4	57.7	7.8	65.3	10.4
Minnesota	98.4	35.6	97.0	37.4	97.8	39.0	98.0	41.6
Mississippi	R95.6	R33.0	91.5	35.9	96.7	39.8	92.4	35.4
Missouri	68.9	18.6	71.5	18.5	76.9	24.1	80.7	16.7
Montana	90.4	1.7	88.7	2.2	90.2	2.1	91.1	4.5
Nebraska	64.4	34.1	61.4	16.1	68.2	20.5	72.3	17.1
Nevada	73.2	10.2	61.0	9.9	65.7	7.4	69.2	8.0
New Hampshire	87.0	51.4	90.7	55.4	91.6	59.1	92.0	62.3
New Jersey	55.6	26.5	60.8	26.3	56.5	28.5	64.0	36.9
New Mexico	53.5	18.5	43.1	8.1	59.5	10.9	58.1	2.8
New York	49.6	R7.5	49.9	7.2	54.9	8.5	60.6	9.1
North Carolina	84.6	20.4	97.5	40.8	89.3	21.7	87.5	22.4
North Dakota	46.5	34.6	80.8	28.9	88.7	36.5	91.9	39.4
Ohio	46.5	2.0	49.2	1.9	58.0	3.2	64.8	3.3
Oklahoma	79.0	3.8	79.2	2.1	82.0	4.1	86.3	3.7
Oregon	98.3	13.8	98.1	17.3	98.5	R17.3	98.5	20.3
Pennsylvania	54.5	10.8	54.7	13.1	48.0	13.3	64.7	14.1
Rhode Island	71.1	41.7	72.4	48.1	80.8	48.5	88.5	55.8
South Carolina	99.9	89.1	91.0	89.0	100.0	87.0	95.2	77.7
South Dakota	78.3	12.0	83.7	10.7	80.7	17.3	85.7	22.6
Tennessee	80.7	24.4	R82.0	R26.3	86.7	29.6	90.4	28.1
Texas	50.6	14.2	56.6	19.1	56.5	18.1	59.2	20.1
Utah	72.8	8.2	77.0	9.4	78.8	9.0	83.8	9.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	62.9	5.5	65.3	8.1	72.2	6.5	72.6	12.2
Washington	NA	NA	NA	NA	80.7	21.0	83.1	26.8
West Virginia	23.2	11.8	29.1	11.3	43.8	11.4	49.6	7.1
Wisconsin	66.1	20.4	58.8	19.9	75.5	27.6	81.8	25.6
Wyoming	28.8	2.1	52.1	1.9	77.8	1.8	62.1	1.9
Total	58.2	R13.9	60.0	15.9	R63.7	R16.5	R70.6	R16.8

See footnotes at end of table.

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

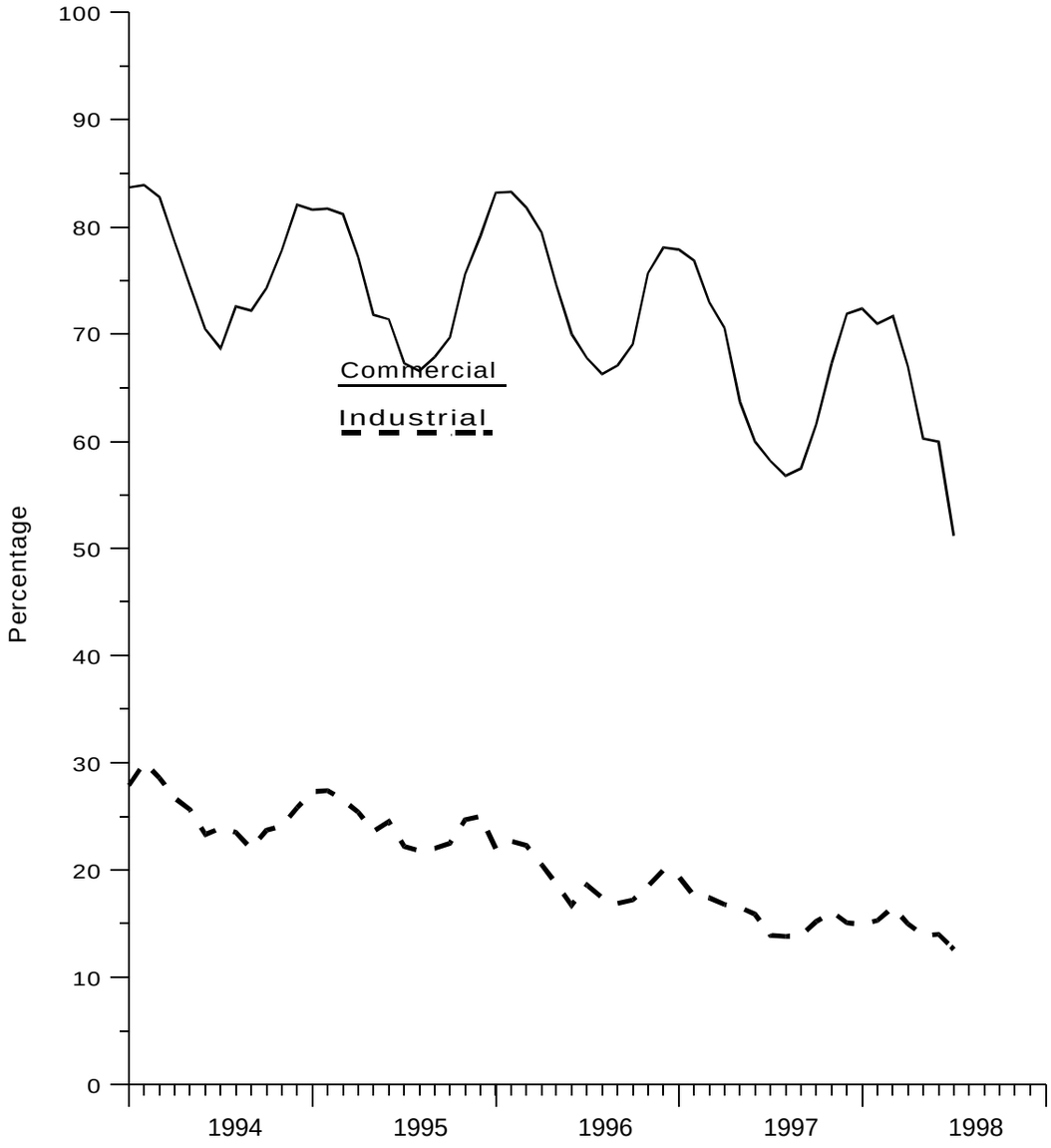
State	1997						1996	
	March		February		January		Total	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	76.2	17.9	79.7	19.5	77.7	17.7	81.1	22.6
Alaska	57.5	98.6	58.8	97.9	60.2	97.1	63.4	64.3
Arizona	86.5	20.1	87.8	22.6	87.4	18.2	85.2	19.7
Arkansas	94.9	12.1	96.6	13.6	96.1	12.9	95.0	13.3
California	54.5	11.0	58.5	11.3	58.0	11.3	54.9	11.2
Colorado	R95.6	R17.9	R96.4	R16.7	R95.5	19.6	93.2	7.4
Connecticut	87.0	68.2	90.2	78.8	90.1	76.0	87.0	84.6
Delaware	100.0	32.7	100.0	34.0	100.0	28.8	100.0	37.3
District of Columbia	59.9	—	62.8	—	67.9	—	70.5	—
Florida	97.0	7.1	96.6	8.7	96.1	9.1	97.1	13.4
Georgia	88.9	15.7	92.7	21.1	93.7	20.0	94.1	32.2
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	87.8	2.1	89.7	2.2	87.8	1.9	86.6	1.4
Illinois	54.4	10.3	54.3	9.8	62.0	14.6	53.9	13.7
Indiana	86.5	12.7	93.0	19.8	93.7	20.1	96.3	16.6
Iowa	88.5	7.4	89.4	7.2	90.3	9.6	87.7	9.0
Kansas	60.1	R5.3	65.7	R6.0	86.2	R5.2	71.7	7.7
Kentucky	89.6	15.5	90.8	19.4	91.9	22.1	90.8	27.1
Louisiana	98.6	10.7	98.4	8.6	97.9	9.5	98.3	10.6
Maine	100.0	91.8	100.0	100.0	100.0	100.0	100.0	91.0
Maryland	79.8	17.3	82.8	14.7	84.5	2.8	91.9	11.7
Massachusetts	70.9	34.4	67.3	36.8	67.3	34.3	74.7	41.9
Michigan	66.4	12.8	69.4	14.2	69.2	14.0	66.9	12.5
Minnesota	99.0	42.2	98.7	45.0	98.6	37.3	96.2	41.3
Mississippi	95.8	36.5	96.3	37.6	96.9	38.4	97.4	41.7
Missouri	83.9	27.3	79.9	19.5	86.3	28.3	82.2	24.7
Montana	90.4	4.1	93.0	4.1	90.9	4.4	91.5	3.4
Nebraska	70.8	20.2	87.9	25.6	77.6	27.3	70.0	20.4
Nevada	78.1	7.3	79.7	9.1	77.2	8.3	74.2	7.2
New Hampshire	94.0	53.6	99.1	52.1	98.8	44.2	96.9	55.4
New Jersey	68.5	30.3	93.5	R30.7	70.6	35.9	73.3	53.6
New Mexico	70.5	3.9	72.5	2.1	74.0	19.4	64.7	3.5
New York	63.4	9.9	65.8	10.0	66.3	11.8	77.0	14.7
North Carolina	91.6	30.2	95.9	39.6	100.0	90.1	96.5	59.4
North Dakota	91.4	59.4	93.9	49.5	93.4	43.3	88.0	26.5
Ohio	69.2	5.5	68.5	5.6	72.5	8.4	71.8	7.4
Oklahoma	88.1	5.9	90.5	8.7	90.7	7.4	84.5	6.6
Oregon	98.8	21.0	98.9	22.5	98.8	19.0	98.3	18.0
Pennsylvania	64.3	15.4	69.8	14.9	69.3	18.9	70.4	18.5
Rhode Island	82.2	61.7	91.7	45.9	89.6	38.1	91.8	16.9
South Carolina	97.4	80.3	97.9	78.2	100.0	86.8	99.0	85.8
South Dakota	86.3	26.7	85.7	30.4	86.9	31.4	82.7	24.6
Tennessee	R88.9	NA	92.5	28.7	94.0	35.9	94.3	47.0
Texas	60.5	17.3	68.1	17.1	71.1	19.2	83.5	20.2
Utah	83.0	6.7	87.2	10.8	86.2	10.2	81.9	9.0
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	77.0	13.2	81.6	6.8	87.5	7.9	85.3	18.0
Washington	86.0	27.3	86.7	26.8	87.8	26.7	85.9	24.4
West Virginia	60.3	19.7	67.8	14.8	67.8	14.4	56.3	14.3
Wisconsin	87.4	34.0	87.3	35.9	88.8	37.6	91.6	36.4
Wyoming	74.0	1.8	82.1	1.9	85.0	1.5	85.9	2.9
Total	73.0	17.4	76.9	R17.6	77.9	19.4	77.6	19.4

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 l, 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 non-hydrocarbon 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 non-hydrocarbon 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 Enery, U.S. Department of Energy, *Natural Gas Imports and Exports*, which requires data to be reported each quarter by month for the calendar year.

Pr*eliminary 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 off 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 Atmpospheric 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 arond the country. The temperature information recorded at these weather stations is used to calculate Statewide degree-day averages weighted by gas home cutomers. 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:

$$C_{.j} = \frac{X_{.j}}{2n} \qquad (1)$$

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:

$$m = n\frac{X2}{X_{..}} \qquad (2)$$

where:
m = the sample size for the noncertainty stratum within a State,
X2 = 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 ($I = \frac{X2}{m}$). 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 X2 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:

$$E_{vj} = \frac{Y_{.j}}{Y'_{.j}} \qquad (3)$$

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:

$$V_j = y_{.j} \times E_{vj} \qquad (4)$$

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:

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

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,

$y_{.j}t-1$ = 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:

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

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:

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

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 nonsampling errors for monthly data.

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

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

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

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, July 1998

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	132	73	3,792	3,795	0.81	0.31	0.29
Alaska	0	0	0	0	—	—	—
Arizona	5	97	0	97	0.19	0.05	—
Arkansas	0	0	0	0	—	—	—
California	159	449	4,292	4,318	0.05	0.08	0.31
Colorado	NA	NA	NA	NA	NA	NA	NA
Connecticut	0	0	0	0	—	—	—
Delaware	0	0	0	0	—	—	—
District of Columbia	0	0	0	0	—	—	—
Florida	110	258	867	911	1.48	0.51	0.21
Georgia	48	165	1,517	1,527	0.69	0.97	2.67
Hawaii	0	0	0	0	—	—	—
Idaho	0	0	0	0	—	—	—
Illinois	906	347	1,799	2,044	1.60	4.20	1.12
Indiana	NA	NA	NA	NA	NA	NA	NA
Iowa	15	369	156	401	0.74	0.46	0.34
Kansas	3,550	4,585	67,259	67,509	6.93	0.88	7.11
Kentucky	560	756	563	1,096	3.43	6.12	3.03
Louisiana	91	77	3,547	3,549	0.18	0.30	0.02
Maine	0	0	0	0	—	—	—
Maryland	3	12	78	79	0.02	0.04	0.42
Massachusetts	162	96	1,201	1,216	0.63	0.19	0.45
Michigan	0	0	0	0	—	—	—
Minnesota	141	79	1,690	1,697	0.09	0.12	0.25
Mississippi	NA	NA	NA	NA	NA	NA	NA
Missouri	993	482	3,107	3,297	3.42	1.74	8.22
Montana	2	1	0	2	0.01	0.06	—
Nebraska	1	5	913	913	0.25	0.19	0.05
Nevada	0	0	0	0	—	—	—
New Hampshire	0	0	0	0	—	—	—
New Jersey	0	0	0	0	—	—	—
New Mexico	27	96	637	645	1.07	1.48	—
New York	NA	NA	NA	NA	NA	NA	NA
North Carolina	66	92	206	235	0.02	0.03	0.05
North Dakota	0	0	0	0	—	—	—
Ohio	NA	NA	NA	NA	NA	NA	NA
Oklahoma	147	226	138	303	0.57	0.11	0.54
Oregon	0	0	NA	NA	—	—	NA
Pennsylvania	73	142	1,026	1,038	0.28	0.21	0.12
Rhode Island	0	0	0	0	—	—	—
South Carolina	87	115	235	276	1.07	0.35	0.12
South Dakota	0	0	0	0	—	—	—
Tennessee	415	818	1,643	1,882	3.14	2.54	2.32
Texas	68	1,331	8,435	8,539	0.05	0.25	0.21
Utah	0	0	0	0	—	—	—
Vermont	0	0	0	0	—	—	—
Virginia	27	327	729	799	0.30	0.24	0.36
Washington	NA	NA	NA	NA	NA	NA	NA
West Virginia	NA	2,548	NA	NA	NA	9.77	NA
Wisconsin	317	475	251	624	0.65	0.88	0.21
Wyoming	NA	NA	NA	NA	NA	NA	NA
Total	4,028	5,944	68,415	68,791	0.25	0.24	0.63

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 l998

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

Appendix F

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 representations 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 Admi- nistration's Fax on Demand System; and (5) diskettes.

	Internet	Dial-In	Infodisk	E-Mail	Diskette
ANNUAL PUBLICATIONS					
Natural Gas Annual, 1997 Provides information on supply and disposition of natural gas in the United States. Information is provided nationally, regionally, and by State for 1997.	V P		V P		P
Historical Natural Gas Annual, 1930 through 1997 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 1996: Issues and Trends Examines how industry restructuring continues to expand choices, and challenges, for industry, participants, and natural gas customers.	V		V		
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		
U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves Annual Report, 1996 1996 national and State estimates of reserves, reserve changes, and production, plus industry highlights.	V		V		

V = Viewable P = Post-Processable E = Automatic E-Mail Updates

	Internet	Dial-In	Infodisk	E-Mail	Diskette
Natural Gas Productive Capacity for the Lower 48 States 1986-1998 Analysis of monthly natural gas wellhead productive capacity.	V		V		
MONTHLY PUBLICATIONS					
Natural Gas Monthly, from the previous 12 months Entire Publication in viewable format.	V		V		
OTHER PUBLICATIONS					
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				
Deliverability on the Interstate Natural Pipeline System This publication chronicles and analyzes pipeline growth from the perspective of the natural gas shipper and pipeline transporter.	V				
Natural Gas 1997: Preliminary Highlights This Special Focus, which was featured in the April 1998 issue of the *Natural Gas Monthly*, presents events that affected the natural gas industry during 1997.	V	P			
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 1988 through 1994.	V		V		
Oil Production Capacity Extension 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 Fields Equipment and Production Operations 1993-1996 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 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		
Oil and Gas Field Code Master List Comprehensive listing of U.S. oil and gas field names as of October 1997.	V		V		
Oil and Gas Resources of the Fergana Basin (Uzbekistan, Tadzhikistan, and Kyrgysztan) Reservoir level assessments of oil and gas ultimate recovery in the former Soviet Union area.	V		V		

V = Viewable P = Post-Processable E = Automatic E-Mail Updates

	Internet	Dial-In	InfoDisk	E-Mail	Diskette
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 1900'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 1997	V P	V P			
Natural Gas Summary, United States by Year 1990-1997	V P	V P			
Natural Gas Annual 1997 data Self-extracting file containing data (in comma-delimited format) that appear in the tables in the 1997 *Natural Gas Annual*.	P		P		P
Historical Natural Gas Annual 1997 data Self-extracting file containing historical information (in comma-delimited format) found in the tables in Volume 2 of the 1997 *Natural Gas Annual.* Annual historical data at the national level are presented for 1930-1997. Annual information by State and region is presented for 1967-1997.	P		P		P
1997 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 1997.	P				P
1996 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 1996.	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. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves* from 1977 forward.	P				P
MONTHLY DATA					
Natural Gas Production, United States by Month 1989-forward	P	P			
Natural Gas Supply and Disposition 1989-forward	P	P		E	
Natural Gas Imports and Exports 1989-forward	P	P			
Natural Gas Underground Storage: United States Total by Month 1989-forward	P	P		E	
Natural Gas Prices: United States Total by Month 1989-forward	P	P		E	
Natural Gas Consumption by Sector: United States Total by Month 1989-forward	P	P		E	
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 1984-1995	P	P			

V = Viewable P = Post-Processable E = Automatic E-Mail Updates

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 termperature 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 oi1 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 certificated 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.