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Natural Gas Monthly
August 1998

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Electric Power Monthly, updated on the 1st of the month
Monthly Energy Review, updated the last week of the month
Short Term Energy Outlook, updated 60 days after the end of the quarter

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
Special Report: "U.S. Natural Gas Imports and Exports - 1997"	vii
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, 1991-1997	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, 1991-1997	16
8. Gross Withdrawals and Marketed Production of Natural Gas by State, March 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, May 1998	29
15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1997	30
16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1997	34
17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1997	38
18. Natural Gas Deliveries to Electric Utility Consumers, by State, 1996-1997	42
19. Natural Gas Deliveries to All Consumers, by State, 1996-1997	46
20. Average City Gate Price, by State, 1996-1997	50
21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1997	53
22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1997	56
23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1997	59
24. Average Price of Natural Gas Delivered to Electric Utility Consumers, by State, 1996-1997	62

25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1997 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, April 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, 1993-1997 13
4. Average Price of Natural Gas in the United States, 1993-1997 13
5. Underground Natural Gas Storage in the United States, 1995-1998 21
6. Percentage of Total Deliveries Represented by Onsystem Sales, 1993-1997 71

U.S. Natural Gas Imports and Exports—1997

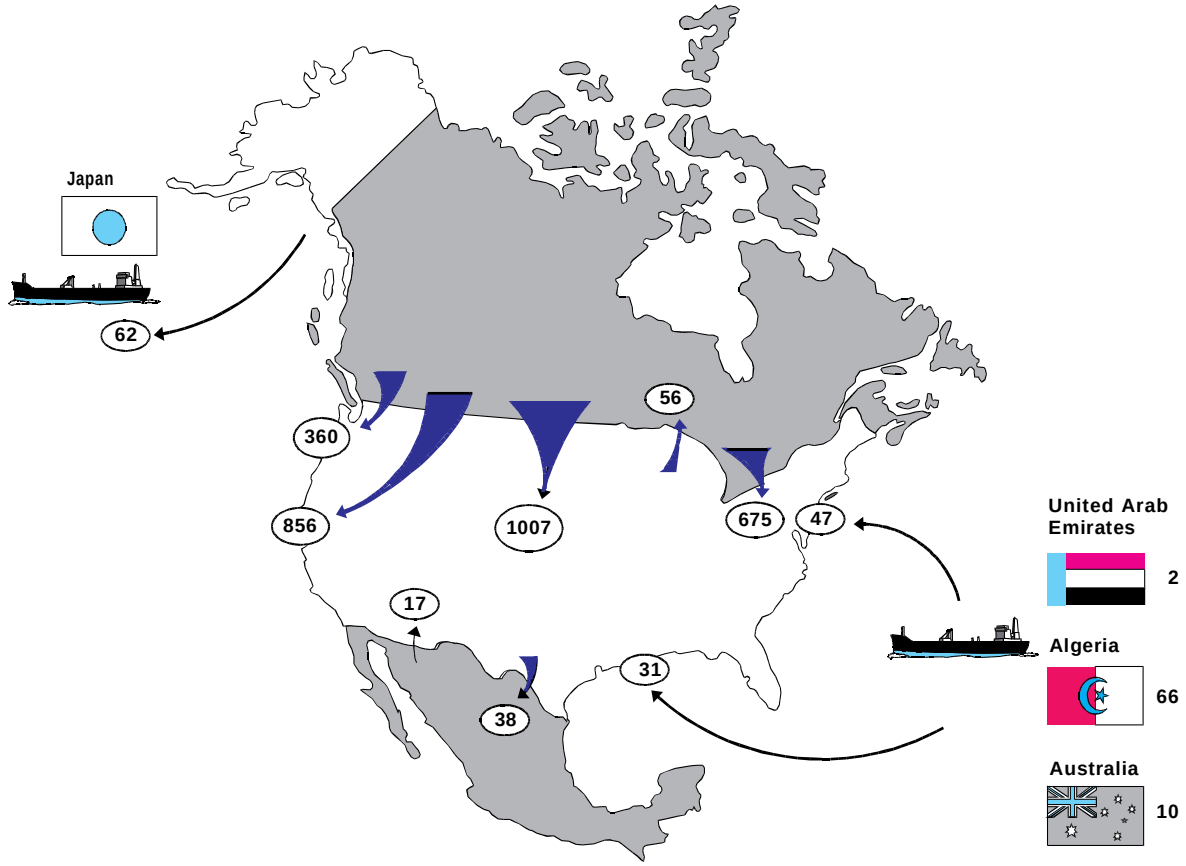
by Ann M. Ducca and Linda Cook

During 1997, Canada continued its role as the major supplier of natural gas imported into the United States (Table SR1). However, the growth rate of U.S. imports of Canadian gas was minimal because pipeline capacity utilization remained near its maximum level and capacity expanded very little during the year. Increases in pipeline capacity are under development or have been proposed for the next several years. Crossborder trade with Mexico also increased in 1997, and that nation holds substantial promise for expansion on both the supply and demand sides of the market (Tables SR2 and SR3). Spot purchases of liquefied natural gas (LNG) rose as the United States responded to LNG availability in the world marketplace (Figure SR1).

Some of the highlights of 1997 for U.S. natural gas imports and exports are:

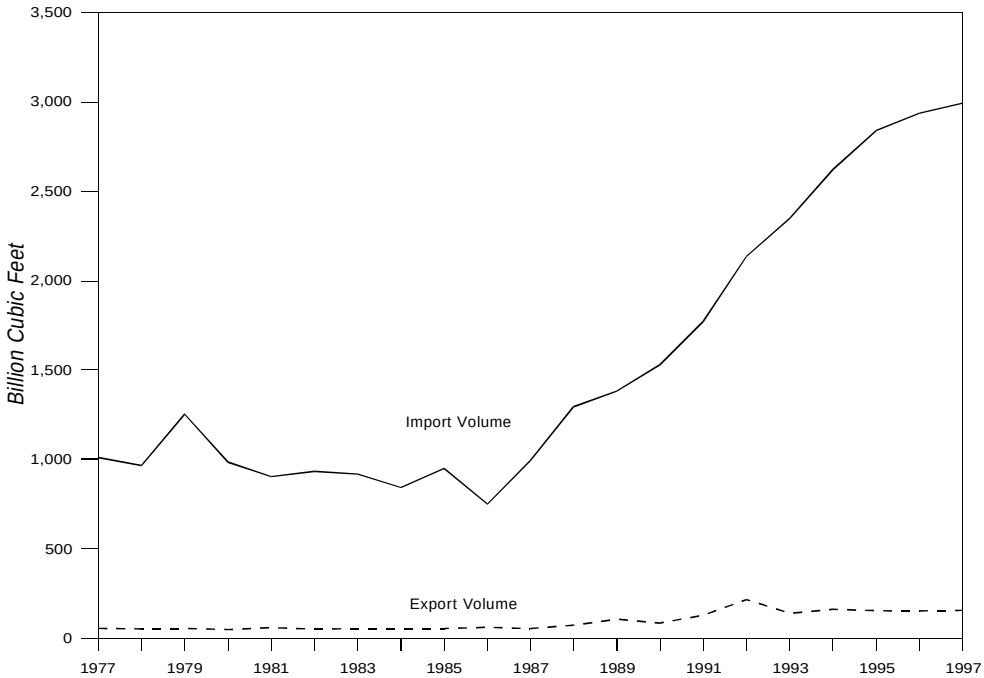
- Net imports rose for the 11th consecutive year, representing 13 percent of U.S. natural gas consumption.

Figure SR1. Flow of Natural Gas Imports and Exports, 1997
(Billion Cubic Feet)



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

Figure SR2. Total Natural Gas Imports and Exports, 1977-1997



Sources: 1994 and Earlier Years: Energy Information Administration, Form FPC-14,"Annual Report for Importers and Exporters of Natural Gas."
1995 to 1997: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*

- Pipeline imports from Canada continued to climb to a new record level of 2,899 billion cubic feet, although the growth rate slowed considerably.

- The average price of natural gas imports from Canada was $2.15 per thousand cubic feet. This is the highest average price since 1986.

- LNG imports totaled 77.8 billion cubic feet, almost double the 1996 level. This increase was primarily the result of the end of curtailments from Algeria which had been in effect since August 1994 because of a major renovation project on that nation's liquefaction plants.

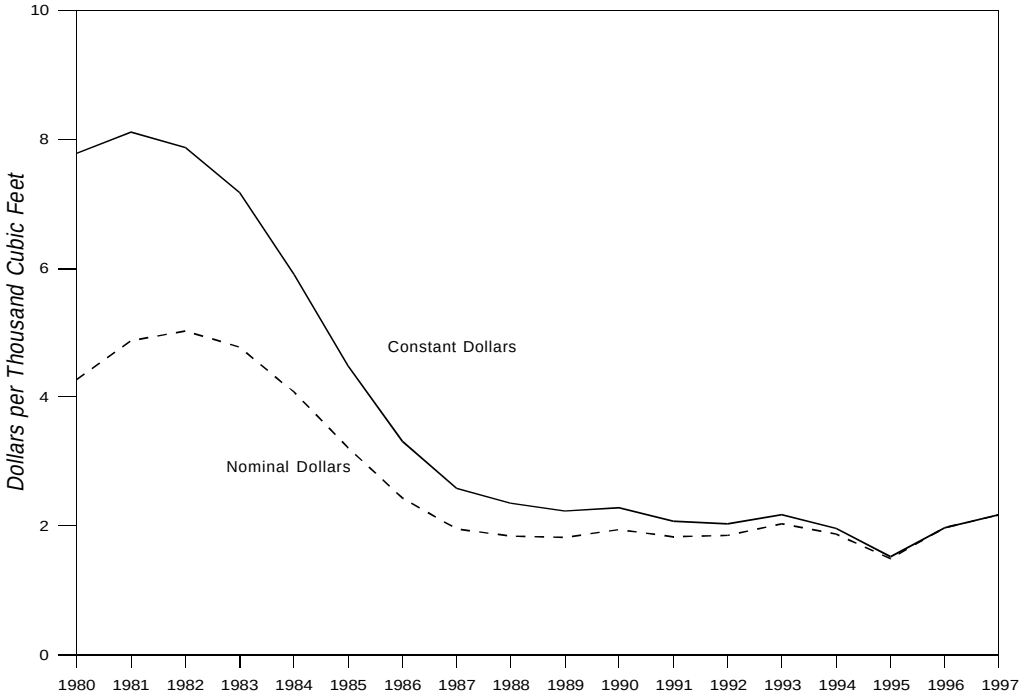
- Spot market purchases of LNG totaled 12.1 billion cubic feet, 16 percent of total LNG imports. These shipments were received from the United Arab Emirates and, for the first time, from Australia.

Trade with Canada

For the 11th consecutive year, natural gas imports from Canada increased, reaching 2,899 billion cubic feet and accounting for 97 percent of total U.S. imports of natural gas (Figure SR2 and Table SR4). Net imports continued to represent a growing share of U.S. natural gas consumption—13 percent in 1997 (Figure SR5). The average price of natural gas imports from Canada was $2.15 per thousand cubic feet, the highest average price since 1986 (Table SR7). It rose 10 percent from the 1996 price and 45 percent above 1995's 20-year record low of $1.48 per thousand cubic feet. The increases in Canadian import prices follow the trend in the U.S. wellhead prices. The 1997 U.S. wellhead price was 3 percent more than the 1996 level and 44 percent above the 1995 price. (See Table 4 in the *Natural Gas Monthly* for wellhead prices.)

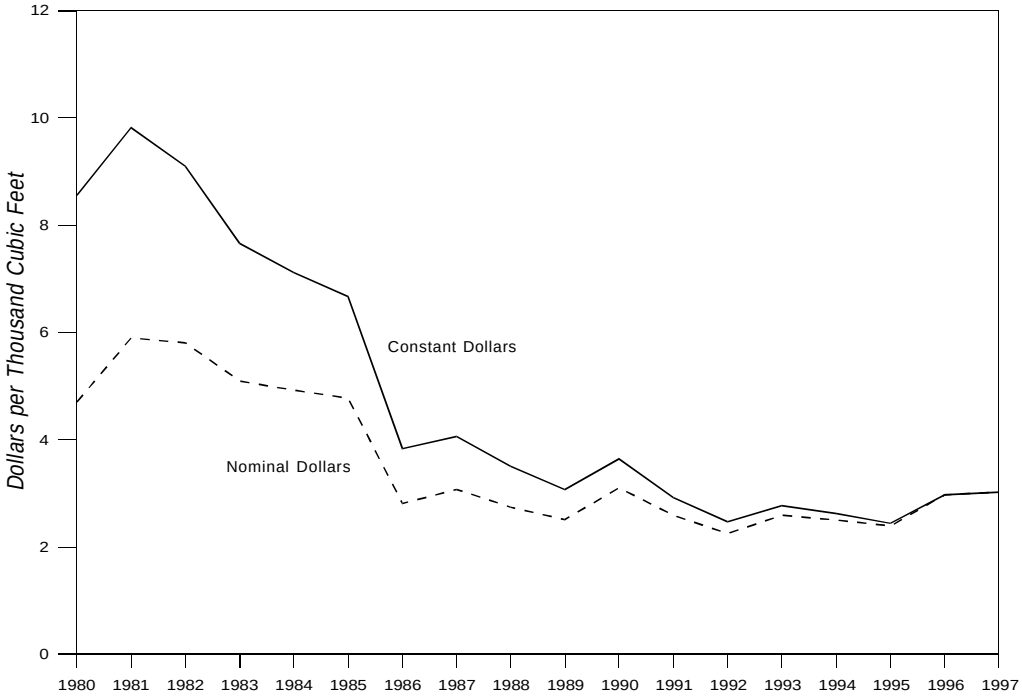
Despite the record import levels from Canada, the growth rate was minimal, less than 1 percent, in contrast to an average annual growth rate of 13 percent during the previous 10 years. The capacity of the pipelines that bring the gas across the border constrained the growth rate as current capacity is almost completely utilized and little capacity expansion occurred during 1997. More than 3 billion cubic feet per day of Canadian export capacity has been proposed over the next

Figure SR3. Average Price of U.S. Natural Gas Imports, 1980-1997



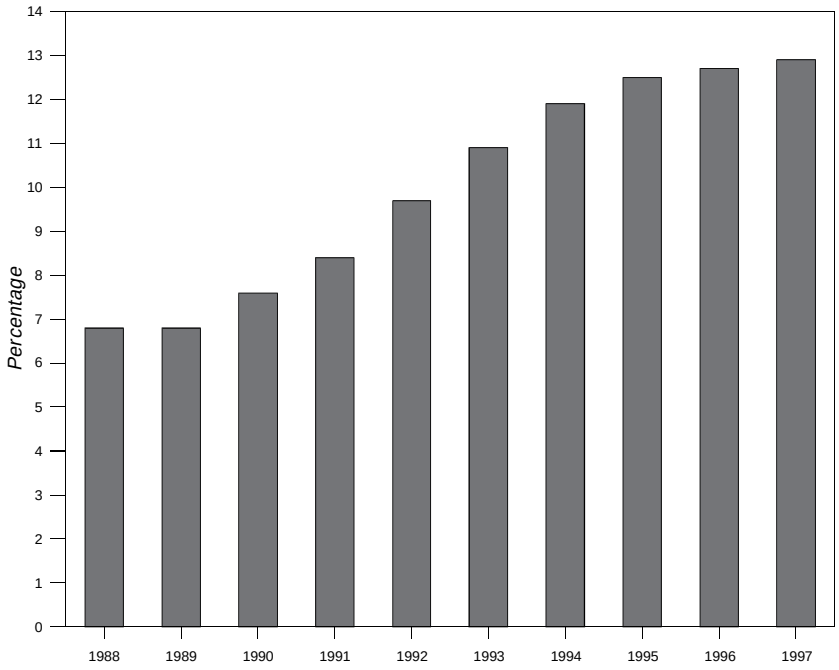
Sources: Nominal Dollars: 1994 and Earlier Years: Energy Information Administration, Form FPC-14,"Annual Report for Importers and Exporters of Natural Gas." 1995 to 1997: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*
Constant Dollars: Prices were converted to 1997 dollars using the chain-type price indexes for Gross Domestic Product (1992 = 1.0) as published by the U.S. Department of Commerce, Bureau of Economic Analysis.

Figure SR4. Average Price of U.S. Natural Gas Exports, 1980-1997



Sources: Nominal Dollars: 1994 and Earlier Years: Energy Information Administration, Form FPC-14,"Annual Report for Importers and Exporters of Natural Gas." 1995 to 1997: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*
Constant Dollars: Prices were converted to 1997 dollars using the chain-type price indexes for Gross Domestic Product (1992 = 1.0) as published by the U.S. Department of Commerce, Bureau of Economic Analysis.

Figure SR5. Net Imports as a Percentage of Total Consumption, 1988-1997



Sources: 1994 and Earlier Years: Energy Information Administration, Form FPC-14,"Annual Report for Importers and Exporters of Natural Gas." 1995 to 1997: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*

several years, principally into the U.S. Midwest and Northeast. For the most part, the proposals are driven by growing markets in the United States and by Canadian natural gas producers seeking market outlets for their expanding production capabilities. Capacity additions within the United States are also proposed for moving Canadian and domestic gas from the Midwest to the Northeast.

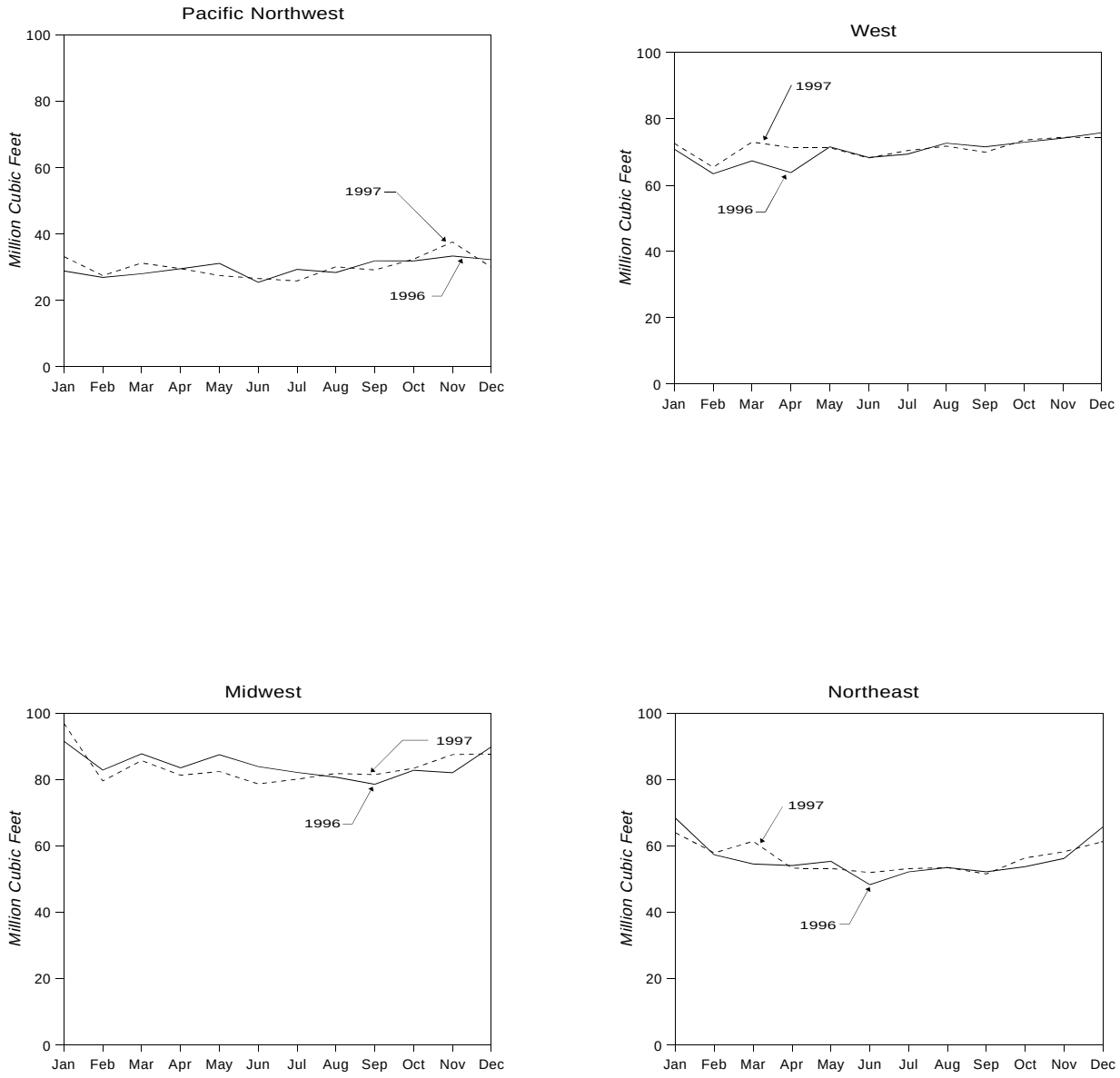
Two crossborder pipeline expansion projects, each with a projected in-service date of November 1998, will add large amounts of capacity. Northern Border's Chicago Project will increase capacity from the U.S. Canadian border at Port of Morgan, Montana into Iowa by 700 million cubic feet per day and extend the pipeline into Illinois just south of Chicago. The Portland Natural Gas Transmission System project will connect facilities at the border near East Hereford, Quebec and Pittsburg, New Hampshire with Westbrook, Maine. The Portland project will add 138 million cubic feet per day of capacity.

Import points of entry from Canada into the United States can be grouped into four regional areas: the Pacific Northwest, the West, the Midwest, and the Northeast. From 1996 to 1997, natural gas imports rose in all regional areas except the Midwest. These increases were very moderate with the largest volumetric increase occurring in the West (14.4 billion cubic feet). The price of Canadian gas imports also rose in all regions but the Northeast (Table SR6 and Figures SR6 and SR7).

The Midwest region received the greatest volume of imports—1,007 billion cubic feet in 1997, despite a 1 percent decline from the 1996 level. The average price through the Midwest entry points located in Michigan, Minnesota, Montana, and North Dakota rose 9 percent, from $2.10 to $2.28 per thousand cubic feet. Northeast imports rose by 1 percent to 675.7 billion cubic feet. Imports enter the Northeast through New York and Vermont. The Northeast paid the highest regional price, $2.90 per thousand cubic feet. This was 1 percent lower than the 1996 price in the region, but 81 percent more than the price paid in the West region.

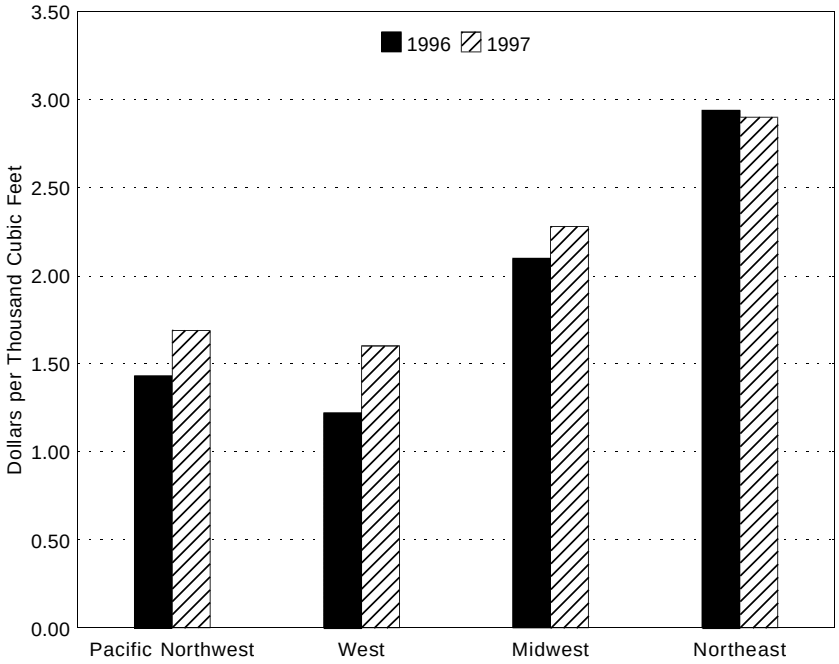
Canadian gas imports into the Pacific Northwest region reached 360 billion cubic feet in 1997, 1 percent above last year's level. There is a single entry point at Sumas, Washington. This region experienced a substantial rise in price, from $1.43 per thousand cubic feet in 1996 to $1.69 in 1997, an 18-percent increase. The West region

Figure SR6. U.S. Natural Gas Pipeline Imports from Canada by Regional Point of Entry, 1996-1997



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

Figure SR7. Average Price of U.S. Natural Gas Pipeline Imports from Canada by Regional Point of Entry, 1996-1997



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

also has only one entry point, located at Eastport, Idaho, and had the second-highest regional import volume in 1997 at 857 billion cubic feet, a 2 percent increase over the 1996 level. Most of the West imports are marketed in California. The West had the sharpest price increase above the 1996 price, 31 percent, but at $1.60 per thousand cubic feet remained the lowest regional price in 1997, only 5 percent less than the Pacific Northwest regional price.

Natural gas exports to Canada rose to 56 billion cubic feet, a 9-percent increase over 1996 levels. The average price of these exports was $2.52 per thousand cubic feet, 6 percent less than the 1996 price (Table SR3). Exports to Canada represented 36 percent of total U.S. natural gas exports during 1997.

Trade With Mexico

Exports of natural gas to Mexico rose in 1997 to 38.4 billion cubic feet, 13 percent above the 1996 level, but still well below the peak of 96.0 billion cubic feet in 1992. The price of exports to Mexico also climbed to $2.46 per thousand cubic feet, up 17 percent from 1996 and the highest price since 1988 (Table SR9). The United States imported 17.2 billion cubic feet of natural gas from Mexico in 1997, 24 percent more than during 1996. The United States did not import gas from Mexico from 1985 through November 1993. Since trade resumed in December 1993, imports from Mexico have represented less than 1 percent of total annual U.S. natural gas imports (Table SR4).

The fact that gas exports to Mexico are still less than in 1992 may reflect the increased availability of gas in Mexico because of increases in production by Petroleos Mexicanos (Pemex) during 1997. This additional production may have displaced some U.S. supplies. However, Mexico still holds substantial promise for expansion on both the supply and demand sides of the market. Extensive infrastructure development is underway that will increase crossborder flows of gas in both directions. This development includes construction in Mexico of gas-fired electric utilities as well as natural gas distribution infrastructure, which will promote expanded gas consumption. Mexican sources predict that U.S. imports from Mexico will continue to grow but that Mexico is expected to be a net importer of natural gas during the foreseeable future.

Liquefied Natural Gas

During 1997, the United States imported liquefied natural gas (LNG) from Algeria, the United Arab Emirates (Abu Dhabi), and, for the first time, from Australia. The shipments from the United Arab Emirates and Australia were spot purchases. LNG shipments totaled 77.8 billion cubic feet, almost double the 1996 level. They were received in Massachusetts and Louisiana and represented 3 percent of total natural gas imports. LNG was exported from Alaska to Japan. These exports accounted for 40 percent of total gas exports.

LNG imports from Algeria rose to 65.7 billion cubic feet in 1997, the highest level since 1993. This increase was primarily the result of the end of curtailments, which began in August 1994. Sonatrach, the state-owned oil and gas company in Algeria, curtailed exports because of a major renovation project on that nation's liquefaction plants. Those renovations have progressed so that the original capacities of its liquefaction plants have been restored. By late 1996, Algerian shipments into the United States returned to near pre-curtailment levels, measured as the average of Algerian imports during 1990 through 1993. During 1997, Algerian imports represented 84 percent of LNG imports, but only 2 percent of the total amount of natural gas imported into the United States. The price of Algerian imports was $2.67 per thousand cubic feet, 1 percent less than the 1996 price.

An LNG shipment of 2.4 billion cubic feet was imported from the United Arab Emirates in January. Shipments from Australia were received in May, September, and November, totaling 9.7 billion cubic feet. The price for the shipments from the United Arab Emirates averaged $3.74 per thousand cubic feet, and from Australia, $2.92 per thousand cubic feet (Table SR2). Purchasing of LNG on the spot market is likely to continue in the foreseeable future because of a world-wide surplus of LNG production capacity, reduced demand caused by economic problems in the Far East, and reduced costs caused by new technological developments in the liquefaction process. Spot sales into the United States will continue if the market price of gas is high enough to justify long distance sales.[1]

LNG exports from Alaska to Japan fell by 8 percent from 1996 to 1997 to 62.2 billion cubic feet (Tables SR5 and SR8). This decline may reflect the economic difficulties in the Far East that have resulted in reduced demand for energy in general and LNG in particular. The price for these exports increased by 5 percent between 1996 and 1997 to $3.83 per thousand cubic feet.

At present, there are two LNG import facilities in the United States that are not receiving LNG shipments. The Cove Point LNG facility in southern Maryland continues to be used to liquefy and store gas for later regasification during peak demand periods. Currently the facility uses domestic gas, but in the long term it expects to be a receiving terminal for LNG tankers. The Elba Island LNG facility in Georgia is not scheduled for operation through 2000.

Two LNG projects are nearing completion that may have an impact on U.S. LNG trade:

- **The Trinidad and Tobago Export Facility.** This project would develop the natural gas resources off the east coast of Trinidad. It has one of the largest project-funding agreements ever to be completed in the Caribbean/Latin American region. Construction of an LNG facility on Trinidad began in 1996 with an anticipated completion date of mid-1999. This facility will target markets in the Northeastern United States, Spain, and Puerto Rico.

- **The EcoElectrica Power Plant in Puerto Rico.** EcoElectrica began construction of a powerplant in January 1998 to be fueled by LNG supplied from Trinidad and other possible sources. EcoElectrica estimates that the facility will be completed and begin operations in 2000.

Summary

Despite record import levels from Canada during 1997, the growth rate slowed considerably as pipeline capacity utilization remained near its maximum level and new capacity additions were limited. A number of pipeline projects are underway that would add substantial export capacity from Canada into the U.S. Midwest and Northeast. Trade between the United States and Mexico continued to evolve, and Mexico holds substantial promise for expansion on both the supply and demand sides of natural gas markets. Spot market purchases of LNG totaled 12.1 billion cubic feet, 16 percent of total LNG imports. These shipments were received from the United Arab Emirates and, for the first time, from Australia.

1 U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports, Fourth Quarter Report 1997*, DOE/FE-0360-4 (March 1998).

Data Sources

Data for 1995, 1996, and 1997 are based on company filings made with the U.S. Department of Energy, Office of Fossil Energy. These filings report data on a monthly level and are received quarterly. The Office of Fossil Energy collects these data as part of its regulatory oversight responsibilities. These data are published by the Office of Fossil Energy in the quarterly report, *Natural Gas Imports and Exports* (DOE/FE-0360).

The data for 1994 and earlier years are taken from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." The Form FPC-14 was discontinued in 1995. The data reported on Form FPC-14 represented physical movements of natural gas. The data collected by the Office of Fossil Energy are reported on an equity (sales) basis. For 1994 and earlier years, comparisons of the information in this article (physical movements) with the information reported by the Office of Fossil Energy (sales) may show differences because reporting requirements were different. Efforts were made to resolve these differences. Further information about how import and export data are collected is provided in the *Natural Gas Monthly*, Appendix B, "Data Sources."

Table SR1. Historical Summary of U.S. Natural Gas Net Imports, 1955-1997
(Million Cubic Feet)

Year	Total Imports	Total Exports	Net Imports	Total Consumption	Net Imports as Percentage of Total Consumption
1955	10,888	31,029	-	8,693,657	-
1956	10,380	35,963	-	9,288,865	-
1957	37,941	41,655	-	9,846,139	-
1958	135,797	38,719	97,078	10,302,608	0.9
1959	133,990	18,413	115,577	11,321,181	1.0
1960	155,646	11,332	144,314	11,966,537	1.2
1961	218,860	10,747	208,113	12,489,268	1.7
1962	401,534	15,814	385,720	13,266,513	2.9
1963	406,204	16,957	389,247	13,970,229	2.8
1964	443,326	19,603	423,723	14,813,808	2.9
1965	456,394	26,132	430,262	15,279,716	2.8
1966	479,780	24,639	455,141	16,452,403	2.8
1967	564,226	81,614	482,612	17,388,360	2.8
1968	651,885	93,745	558,140	18,632,062	3.0
1969	726,951	51,304	675,647	20,056,240	3.4
1970	820,780	69,813	750,967	21,139,386	3.6
1971	934,548	80,212	854,336	21,793,454	3.9
1972	1,019,496	78,013	941,483	22,101,452	4.3
1973	1,032,901	77,169	955,732	22,049,363	4.3
1974	959,284	76,789	882,495	21,223,133	4.2
1975	953,008	72,675	880,333	19,537,593	4.5
1976	963,768	64,711	899,057	19,946,496	4.5
1977	1,011,002	55,626	955,376	19,520,581	4.9
1978	965,545	52,532	913,013	19,627,478	4.7
1979	1,253,383	55,673	1,197,710	20,240,761	5.9
1980	984,767	48,731	936,036	19,877,293	4.7
1981	90 3,949	59,372	844,577	19,403,858	4.4
1982	933,336	51,728	881,608	18,001,055	4.9
1983	918,407	54,639	863,768	16,834,914	5.1
1984	843,060	54,753	788,307	17,950,524	4.4
1985	949,715	55,268	894,447	17,280,943	5.2
1986	750,449	61,271	689,178	16,221,296	4.2
1987	992,532	54,020	938,512	17,210,809	5.5
1988	1,293,812	73,638	1,220,174	18,029,588	6.8
1989	1,381,520	106,871	1,274,648	18,800,830	6.8
1990	1,532,259	85,565	1,446,694	18,716,269	7.6
1991	1,773,313	129,244	1,644,068	19,035,156	8.4
1992	2,137,504	216,282	1,921,222	19,544,364	9.7
1993	2,350,115	140,183	2,209,931	20,279,095	10.9
1994	2,623,839	161,738	2,462,101	20,707,717	11.9
1995	2,841,048	154,119	2,686,929	21,580,665	12.5
1996	2,937,413	153,393	2,784,020	21,966,991	12.7
1997	2,994,173	157,006	2,837,167	[a] 21,979,661	12.9

[a] Preliminary data.
- = Not applicable.
Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska.
Source: **Total Consumption:** *Natural Gas Annual 1990 Volume 2* for 1955 through 1988; *Natural Gas Monthly* July 1995 for 1989 and 1990, August 1998 for 1991 through 1997. **All Other Data:** 1955-1971: Federal Power Commission, informally collected by letter. 1972-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." 1995 to 1997: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*

Table SR2. Summary of U.S. Natural Gas Imports, 1996-1997

Source	Volume (million cubic feet)		Percent Change	Average Btu/ Cubic Foot		Revenue (thousand dollars)		Average Price (dollars/ thousand cubic feet)		Percent Change	Average Price (dollars/ million Btu)		Percent Change
	1996	1997		1996	1997	1996	1997	1996	1997		1996	1997	
Pipeline													
Canada	2,883,277	2,899,152	0.6	1,021	1,021	5,645,578	6,243,101	1.96	2.15	9.7	1.92	2.11	9.9
Mexico	13,862	17,243	24.4	1,013	1,013	31,236	39,893	2.25	2.31	2.7	2.22	2.28	2.7
Total	2,897,138	2,916,394	0.7	1,021	1,021	5,676,814	6,282,994	1.96	2.15	9.7	1.92	2.11	9.9
LNG													
Algeria	35,325	65,675	85.9	1,100	1,100	95,522	175,618	2.70	2.67	-1.1	2.46	2.43	-1.2
Australia		9,686	-	0	1,141	0	28,315	0.00	2.92	-	0.00	2.56	-
Un. Arab Emirates	4,949	2,417	-51.2	1,115	1,115	17,102	9,028	3.46	3.74	8.1	3.10	3.35	8.1
Total	40,274	77,778	120.2	1,100	1,106	95,522	212,961	2.70	2.74	1.5	2.46	2.48	0.8
Grand Total	2,937,412	2,994,173	2.1	1,022	1,023	5,772,336	6,495,955	1.97	2.17	10.2	1.93	2.12	9.8

Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska.
Source: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*

Table SR3. Summary of U.S. Natural Gas Exports, 1996-1997

Source	Volume (million cubic feet)		Percent Change	Average Btu/ Cubic Foot		Cost (thousand dollars)		Average Price (dollars/ thousand cubic feet)		Percent Change	Average Price (dollars/ million Btu)		Percent Change
	1996	1997		1996	1997	1996	1997	1996	1997		1996	1997	
Pipeline													
Canada	51,905	56,447	8.8	1,013	1,013	138,345	142,153	2.67	2.52	-5.6	2.63	2.49	-5.3
Mexico	33,840	38,372	13.4	1,011	1,011	71,369	94,287	2.11	2.46	16.6	2.09	2.43	16.3
Total	85,745	94,818	10.6	1,012	1,012	209,714	236,440	2.45	2.49	1.6	2.42	2.46	1.7
LNG													
Japan	67,648	62,187	-8.1	1,010	1,010	246,589	238,404	3.65	3.83	4.9	3.61	3.80	5.3
Grand Total	153,393	157,006	2.4	1,011	1,011	456,303	474,844	2.97	3.02	1.7	2.94	2.99	1.7

Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska.
Source: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*

Table SR4. Historical Summary of U.S. Natural Gas Imports, 1955-1997
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year	Imports from Canada		Imports from Mexico Pipeline	Imports from Algeria LNG	Imports from Others LNG	Total Imports[a]	Average Price
	Pipeline	LNG					
1955	10,881	0	7	0	0	10,888	NA
1956	10,374	0	6	0	0	10,380	NA
1957	20,971	0	16,970	0	0	37,941	NA
1958	89,586	0	46,211	0	0	135,797	NA
1959	83,061	0	50,929	0	0	133,990	NA
1960	108,657	0	46,989	0	0	155,646	NA
1961	167,104	0	51,756	0	0	218,860	NA
1962	350,438	0	51,096	0	0	401,534	NA
1963	356,455	0	49,749	0	0	406,204	NA
1964	390,721	0	52,605	0	0	443,326	NA
1965	404,686	0	51,708	0	0	456,394	NA
1966	430,189	0	49,591	0	0	479,780	NA
1967	513,255	0	50,971	0	0	564,226	NA
1968	604,462	0	47,423	NA	0	651,885	NA
1969	680,106	0	46,845	NA	0	726,951	NA
1970	778,687	NA	41,336	757	0	820,780	NA
1971	910,926	1,500	20,689	1,433	0	934,548	NA
1972	1,009,093	230	8,140	2,032	0	1,019,496	0.31
1973	1,027,216	667	1,632	3,388	0	1,032,901	0.35
1974	959,063	0	222	0	0	959,284	0.55
1975	948,115	0	0	4,893	0	953,008	1.21
1976	953,613	0	0	10,155	0	963,768	1.72
1977	996,723	572	2,384	11,324	0	1,011,002	1.98
1978	881,123	0	0	84,422	0	965,545	2.13
1979	1,000,775	0	0	252,608	0	1,253,383	2.49
1980	796,507	0	102,410	85,850	0	984,767	4.28
1981	762,107	6	105,013	36,824	0	903,949	4.88
1982	783,407	0	94,794	55,136	0	933,336	5.03
1983	711,923	0	75,361	131,124	0	918,407	4.78
1984	755,368	0	51,502	36,191	0	843,060	4.08
1985	926,056	0	0	23,659	0	949,715	3.21
1986	748,780	0	0	0	[b] 1,669	750,449	2.43
1987	992,532	0	0	0	0	992,532	1.95
1988	1,276,322	0	0	17,490	0	1,293,812	1.84
1989	1,339,357	0	0	42,163	0	1,381,520	1.82
1990	1,448,065	0	0	84,193	0	1,532,259	1.94
1991	1,709,716	0	0	63,596	0	1,773,313	1.83
1992	2,094,387	0	0	43,116	0	2,137,504	1.85
1993	2,266,751	0	1,678	81,685	0	2,350,115	2.03
1994	2,566,049	0	7,013	50,778	0	2,623,839	1.87
1995	2,816,408	0	6,722	17,918	0	2,841,048	1.49
1996	2,883,277	0	13,862	35,325	[c] 4,949	2,937,413	1.97
1997	2,899,152	0	17,243	65,675	[d] 12,103	2,994,173	2.17

[a] Volumes reported for 1966 through 1997 are on a pressure base of 14.73 pounds per square inch absolute and 60 degrees Fahrenheit. Volumes for 1955 through 1965 are as reported.
[b] Received from Indonesia.
[c] Received from United Arab Emirates.
[d] 9,685 received from Australia and 2,417 received from United Arab Emirates.
NA = Not available.
Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska.
Source: 1955-1971: Federal Power Commission, informally collected by letter. 1972-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." 1995 to 1997: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*

Table SR5. Historical Summary of U.S. Natural Gas Exports, 1955-1997
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year	Exports to Canada Pipeline	Exports to Mexico Pipeline	Exports to Japan LNG	Total Exports[a]	Average Price
1955	11,467	19,562	0	31,029	NA
1956	16,819	19,144	0	35,963	NA
1957	30,867	10,788	0	41,655	NA
1958	32,129	6,590	0	38,719	NA
1959	11,739	6,674	0	18,413	NA
1960	5,759	5,573	0	11,332	NA
1961	5,577	5,170	0	10,747	NA
1962	5,574	10,240	0	15,814	NA
1963	6,879	10,078	0	16,957	NA
1964	9,763	9,840	0	19,603	NA
1965	17,979	8,153	0	26,132	NA
1966	20,281	4,358	0	24,639	NA
1967	70,456	11,158	0	81,614	NA
1968	81,647	12,098	0	93,745	NA
1969	34,931	13,391	2,982	51,304	NA
1970	10,878	14,678	44,257	69,813	NA
1971	14,349	15,632	50,231	80,212	NA
1972	15,553	14,579	47,882	78,013	0.51
1973	14,824	13,999	48,346	77,169	0.54
1974	13,263	13,268	50,258	76,789	0.72
1975	10,219	9,454	53,002	72,675	1.25
1976	7,506	7,425	49,779	64,711	1.55
1977	31	3,940	51,655	55,626	1.92
1978	66	4,033	48,434	52,532	2.13
1979	76	4,308	51,289	55,673	2.29
1980	113	3,886	44,732	48,731	4.70
1981	106	3,337	55,929	59,372	5.90
1982	162	1,705	49,861	51,728	5.81
1983	136	1,646	52,857	54,639	5.10
1984	127	1,786	52,840	54,753	4.92
1985	178	2,207	52,883	55,268	4.77
1986	9,203	1,896	50,172	61,271	2.81
1987	3,297	2,125	48,599	54,020	3.07
1988	19,738	2,327	51,573	73,638	2.74
1989	38,443	17,004	51,424	106,871	2.51
1990	17,359	15,659	52,546	85,565	3.10
1991	14,791	60,448	54,005	129,244	2.59
1992	67,777	95,973	52,532	216,282	2.25
1993	44,518	39,676	55,989	140,183	2.59
1994	52,556	46,500	62,682	161,738	2.50
1995	27,554	61,283	65,283	154,119	2.39
1996	51,905	33,840	67,648	153,393	2.97
1997	56,447	38,372	62,187	157,006	3.02

[a] Volumes reported for 1966 through 1997 are on a pressure base of 14.73 pounds per square inch absolute and 60 degrees Fahrenheit. Volumes for 1955 through 1965 are as reported.

NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska.

Source: 1955-1971: Federal Power Commission, informally collected by letter. 1972-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." 1995 to 1997: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*

Table SR6. U.S. Natural Gas Imports by Point of Entry, 1996-1997
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Canada (Pipeline)							
	Pacific Northwest		West		Midwest			
	Sumas, WA		Eastport, ID		Babb, MT		Detroit, MI	
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996								
January	28,846	1.32	70,890	1.14	1,717	1.13	1,094	2.99
February	26,907	1.30	63,462	1.13	1,787	1.15	1,017	2.69
March	27,998	1.20	67,378	1.07	1,515	1.13	822	2.65
April	29,522	1.02	63,802	0.97	862	1.16	1,170	2.78
May	31,119	1.02	71,599	0.96	1,149	1.14	1,374	2.54
June	25,397	1.03	68,369	0.96	2,301	1.00	1,254	2.65
July	29,278	1.14	69,350	1.06	594	1.09	1,448	2.92
August	28,358	1.19	72,691	1.17	485	1.13	1,218	2.91
September	31,892	1.12	71,589	1.09	777	1.11	1,349	2.38
October	31,846	1.24	72,952	1.15	1,055	1.08	1,010	2.53
November	33,330	2.14	74,184	1.60	1,847	1.22	1,779	2.86
December	32,217	3.16	75,849	2.20	2,458	1.40	1,366	3.05
Total	356,711	1.43	842,114	1.22	16,545	1.16	14,901	2.75
1997								
January	33,173	3.18	72,616	2.46	1,895	1.61	1,390	3.70
February	27,443	2.06	65,440	1.93	1,721	1.26	1,174	3.04
March	31,209	1.14	73,033	1.31	2,018	1.22	921	2.41
April	29,521	1.18	71,320	1.28	973	1.29	1,195	2.04
May	27,455	1.41	71,307	1.40	1,038	1.40	883	2.10
June	26,557	1.38	68,206	1.37	2,009	1.35	712	2.19
July	25,801	1.29	70,432	1.35	1,743	1.35	920	2.09
August	30,095	1.22	71,778	1.33	1,507	1.29	824	2.16
September	29,120	1.33	69,963	1.43	1,901	1.29	657	2.36
October	32,391	1.59	73,598	1.69	844	1.41	1,086	2.26
November	37,581	2.39	74,465	2.08	1,322	1.78	829	2.54
December	29,916	1.73	74,344	1.61	1,506	1.70	909	2.52
Total	360,261	1.69	856,503	1.60	18,477	1.40	11,501	2.51

See footnotes at the end of table.

Table SR6. U.S. Natural Gas Imports by Point of Entry, 1996-1997 (Continued)
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Canada (Pipeline)							
	Midwest							
	International Falls, MN		Marysville, MI		Noyes , MN		Port of Del Bonita , MT	
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996								
January	545	1.83	0	-	35,962	2.64	7	1.05
February	495	1.83	10	3.48	32,842	2.29	5	1.05
March	559	1.78	0	-	34,892	2.48	7	1.06
April	521	1.69	0	-	31,383	2.44	7	1.04
May	514	1.51	0	-	34,559	2.16	7	1.04
June	478	1.44	0	-	32,217	2.23	3	1.04
July	494	1.46	0	-	32,636	2.38	7	1.02
August	496	1.50	0	-	30,988	2.23	6	1.02
September	479	1.48	0	-	30,558	1.93	6	1.02
October	479	1.55	0	-	31,733	1.95	6	1.05
November	647	1.79	0	-	31,863	2.56	6	1.05
December	666	2.37	0	-	34,782	3.33	5	1.05
Total	6,373	1.71	10	3.48	394,415	2.40	72	1.04
1997								
January	681	2.56	0	-	41,437	3.69	5	1.05
February	594	2.75	0	-	31,710	2.82	5	1.05
March	658	1.81	0	-	33,867	1.93	5	1.05
April	520	1.67	0	-	32,291	1.91	5	1.05
May	510	1.92	0	-	32,819	2.08	5	1.05
June	478	1.85	0	-	30,238	2.22	3	1.05
July	496	1.76	0	-	30,630	2.13	5	1.05
August	420	1.65	0	-	31,340	2.09	5	1.05
September	408	1.72	0	-	32,005	2.25	5	1.05
October	512	2.02	0	-	31,377	2.71	5	1.02
November	616	2.27	0	-	34,838	2.90	5	1.01
December	652	1.99	0	-	33,099	2.43	5	1.00
Total	6,544	2.03	0	-	395,650	2.46	58	1.04

See footnotes at the end of table.

Table SR6. U.S. Natural Gas Imports by Point of Entry, 1996-1997 (Continued)
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Canada (Pipeline)							
	Midwest							
	Port of Morgan, MT		Portal, ND		St. Clair, MI		Warroad , MN	
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996								
January	49,129	1.83	313	1.18	2,015	3.66	147	2.51
February	45,015	1.72	292	1.07	660	4.22	142	2.03
March	48,752	1.79	312	1.07	191	5.05	76	1.98
April	46,255	1.97	521	1.02	2,204	2.93	50	2.15
May	47,947	1.75	535	1.00	793	2.34	32	1.63
June	45,901	1.75	606	1.00	583	2.59	5	1.67
July	45,262	1.85	657	1.11	475	2.60	14	1.99
August	44,888	1.82	630	1.13	1,471	2.43	14	1.72
September	42,447	1.44	609	1.12	1,795	2.11	17	1.21
October	45,761	1.60	630	1.16	1,504	2.54	32	1.21
November	44,399	2.25	494	1.77	378	3.35	73	1.87
December	47,318	3.10	512	2.60	2,064	4.04	83	2.96
Total	553,073	1.91	6,110	1.27	14,132	3.04	685	2.14
1997								
January	47,779	3.53	358	3.75	2,717	3.98	86	3.61
February	42,209	2.39	282	2.41	1,274	3.30	77	2.15
March	46,923	1.34	625	1.31	14	2.20	62	1.20
April	44,456	1.51	633	1.22	679	2.18	48	1.18
May	45,438	1.63	652	1.30	519	2.47	29	1.45
June	43,413	1.79	510	1.25	799	2.52	15	1.67
July	44,688	1.80	645	1.21	466	2.36	13	1.57
August	45,576	1.88	926	1.23	715	2.42	5	1.52
September	44,943	2.27	317	1.12	748	2.84	16	1.86
October	46,366	2.70	1,005	1.69	1,635	3.20	35	2.60
November	47,091	3.02	854	2.58	1,351	3.58	62	2.06
December	49,141	2.20	866	1.75	939	2.84	63	2.88
Total	548,022	2.18	7,672	1.67	11,855	3.16	512	2.22

See footnotes at the end of table.

Table SR6. U.S. Natural Gas Imports by Point of Entry, 1996-1997 (Continued)
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Canada (Pipeline)							
	Midwest				Northeast			
	Whitlash, MT		Total		Champlain, NY		Grand Island, NY	
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996								
January	616	1.14	91,544	2.18	1,454	3.26	6,875	3.59
February	569	1.25	82,835	1.96	1,377	3.27	6,347	3.50
March	625	1.21	87,753	2.06	1,459	3.26	3,134	3.29
April	578	1.11	83,550	2.16	1,337	3.26	2,988	3.13
May	556	1.01	87,465	1.91	1,372	3.27	3,180	2.82
June	542	0.93	83,889	1.92	1,317	3.27	2,092	2.96
July	557	0.93	82,143	2.07	1,378	3.27	2,317	3.08
August	504	0.99	80,700	1.99	1,387	3.28	2,236	2.94
September	520	0.98	78,557	1.65	1,330	3.27	2,097	2.82
October	553	1.02	82,761	1.75	1,305	3.25	2,122	2.74
November	565	1.21	82,050	2.35	953	3.39	3,385	3.32
December	636	1.71	89,889	3.15	1,435	3.40	6,058	4.11
Total	6,820	1.14	1,013,137	2.10	16,104	3.29	42,832	3.35
1997								
January	638	1.83	96,986	3.56	1,541	3.41	5,635	4.65
February	544	2.24	79,590	2.56	1,433	3.37	5,177	3.66
March	603	1.42	85,696	1.59	1,527	3.34	6,577	2.81
April	510	1.21	81,309	1.68	1,343	3.35	2,039	2.92
May	518	1.46	82,412	1.82	1,408	3.38	2,274	3.00
June	482	1.39	78,657	1.95	1,334	3.39	2,162	3.10
July	501	1.34	80,107	1.92	1,329	3.39	2,185	3.02
August	496	1.26	81,813	1.95	1,259	3.39	2,105	3.04
September	477	2.04	81,476	2.24	1,330	3.39	1,981	3.22
October	523	1.44	83,389	2.67	1,466	3.40	2,272	3.56
November	543	1.79	87,512	2.94	1,237	3.52	5,022	3.72
December	586	1.79	87,766	2.28	1,463	3.49	4,873	3.18
Total	6,420	1.61	1,006,712	2.28	16,669	3.40	42,302	3.42

See footnotes at the end of table.

Table SR6. U.S. Natural Gas Imports by Point of Entry, 1996-1997 (Continued)
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Canada (Pipeline)							
	Northeast							
	Highgate Springs, VT		Massena, NY		Niagara Falls, NY		North Troy, VT	
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996								
January	1,181	2.74	1,759	2.94	29,448	3.23	958	2.96
February	1,050	2.38	1,594	3.06	22,481	3.02	902	3.22
March	981	2.63	1,663	3.03	22,065	2.97	964	2.97
April	583	3.28	1,251	2.84	25,053	2.85	932	2.98
May	426	3.55	703	3.25	25,583	2.63	957	2.74
June	283	3.75	792	2.91	20,824	2.64	927	2.74
July	232	4.78	824	2.84	22,394	2.86	952	2.83
August	272	3.83	794	2.92	23,700	2.71	792	2.73
September	309	3.24	838	2.85	23,587	2.59	789	2.92
October	655	2.52	962	2.63	24,056	2.59	955	3.01
November	840	2.59	1,200	2.78	24,042	2.94	933	3.28
December	898	3.07	1,262	2.92	27,959	3.54	964	3.60
Total	7,711	2.92	13,642	2.92	291,193	2.90	11,024	3.00
1997								
January	1,159	2.97	1,430	3.22	26,740	3.74	974	3.01
February	965	2.36	1,299	3.30	23,876	3.22	880	3.28
March	1,027	2.12	1,403	2.80	24,406	2.54	974	3.60
April	682	2.26	1,049	2.85	23,945	2.38	933	2.73
May	500	2.78	973	2.98	22,969	2.56	964	2.78
June	293	3.32	786	3.15	22,585	2.58	923	2.75
July	280	3.32	837	3.10	23,781	2.55	852	2.73
August	300	3.12	770	3.16	24,305	2.58	955	2.80
September	372	2.99	845	3.08	22,885	2.76	918	2.91
October	622	2.95	988	3.00	25,753	3.02	971	3.08
November	856	3.02	1,177	3.00	23,879	3.40	898	3.13
December	1,080	2.28	1,371	2.93	23,740	2.99	964	2.70
Total	8,136	2.66	12,927	3.04	288,865	2.87	11,207	2.96

See footnotes at the end of table.

Table SR6. U.S. Natural Gas Imports by Point of Entry, 1996-1997 (Continued)
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Canada (Pipeline)						Mexico (Pipeline)			
	Northeast				Total		Texas			
	Waddington, NY		Total				Hidalgo, TX		Penitas, TX	
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996										
January	26,701	3.24	68,376	3.25	259,656	2.08	1,499	2.03	0	-
February	23,591	3.15	57,342	3.12	230,546	1.94	698	2.14	0	-
March	24,272	3.15	54,539	3.07	237,668	1.91	1,259	2.34	0	-
April	21,911	2.89	54,054	2.90	230,928	1.86	1,369	2.18	0	-
May	23,117	2.72	55,339	2.71	245,522	1.70	4,024	2.14	0	-
June	21,984	2.70	48,220	2.71	225,875	1.70	711	2.35	0	-
July	24,040	2.75	52,137	2.84	232,908	1.82	1,313	2.58	0	-
August	24,268	2.57	53,450	2.68	235,199	1.80	30	1.70	0	-
September	23,217	2.33	52,168	2.51	234,206	1.60	517	1.67	253	1.72
October	23,679	2.43	53,734	2.55	241,294	1.68	1,110	2.37	0	-
November	24,876	3.10	56,230	3.04	245,795	2.25	982	2.85	0	-
December	27,151	3.75	65,727	3.66	263,681	3.00	96	3.30	0	-
Total	288,807	2.92	671,314	2.94	2,883,277	1.96	13,609	2.26	253	1.72
1997										
January	26,502	3.82	63,980	3.81	266,756	3.27	1,555	3.09	0	-
February	24,250	3.32	57,880	3.29	230,352	2.50	2,526	2.49	0	-
March	25,475	2.56	61,390	2.62	251,328	1.70	3,127	1.83	0	-
April	23,292	2.31	53,282	2.41	235,431	1.66	189	1.92	0	-
May	24,083	2.46	53,172	2.57	234,345	1.81	2,380	2.03	0	-
June	23,864	2.58	51,946	2.64	225,366	1.87	1,692	2.20	0	-
July	23,875	2.46	53,139	2.56	229,479	1.82	1,088	1.98	0	-
August	23,760	2.46	53,455	2.58	237,142	1.81	6	2.35	0	-
September	23,200	2.67	51,530	2.76	232,090	2.00	29	2.47	0	-
October	24,292	2.96	56,364	3.03	245,742	2.32	965	2.92	0	-
November	25,155	3.36	58,224	3.40	257,782	2.71	1,874	2.82	0	-
December	27,821	2.80	61,313	2.91	253,338	2.17	1,810	2.12	0	-
Total	295,568	2.82	675,675	2.90	2,899,152	2.15	17,243	2.31	0	-

See footnotes at the end of table.

Table SR6. U.S. Natural Gas Imports by Point of Entry, 1996-1997 (Continued)
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Mexico (Pipeline)		LNG						Grand Total	
	Total		Everett, MA		Lake Charles, LA		Total			
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996										
January	1,499	2.03	2,460	2.81	0	-	2,460	2.81	263,615	2.09
February	698	2.14	2,512	2.79	0	-	2,512	2.79	233,756	1.95
March	1,259	2.34	2,599	3.06	0	-	2,599	3.06	241,526	1.92
April	1,369	2.18	2,599	2.55	1,960	2.27	4,559	2.43	236,857	1.87
May	4,024	2.14	2,612	2.58	0	-	2,612	2.58	252,158	1.72
June	711	2.35	0	-	0	-	0	-	226,587	1.70
July	1,313	2.58	2,642	3.00	0	-	2,642	3.00	236,864	1.84
August	30	1.70	2,629	2.56	0	-	2,629	2.56	237,858	1.80
September	770	1.69	[a] 2,524	3.34	0	-	2,524	3.34	237,500	1.62
October	1,110	2.37	5,116	2.96	0	-	5,116	2.96	247,520	1.71
November	982	2.85	2,504	2.94	2,527	2.25	5,031	2.59	251,807	2.26
December	96	3.30	[b] 5,033	3.20	2,556	2.16	7,589	2.85	271,366	3.00
Total	13,862	2.25	33,232	2.92	7,042	2.22	40,274	2.80	2,937,413	1.97
1997										
January	1,555	3.09	[c] 7,420	3.09	2,558	2.78	9,977	3.01	278,288	3.26
February	2,526	2.49	5,085	3.00	2,582	3.00	7,667	3.00	240,545	2.52
March	3,127	1.83	2,530	2.98	0	-	2,530	2.98	256,985	1.72
April	189	1.92	0	-	2,557	2.23	2,557	2.23	238,178	1.67
May	2,380	2.03	[d] 2,455	2.68	2,552	2.20	5,007	2.44	241,732	1.83
June	1,692	2.20	2,504	2.49	2,555	2.49	5,059	2.49	232,118	1. 88
July	1,088	1.98	2,498	2.47	2,528	2.48	5,026	2.48	235,593	1.84
August	6	2.35	4,984	2.43	2,551	2.43	7,535	2.43	244,684	1.83
September	29	2.47	[e] 4,814	2.64	2,553	2.41	7,367	2.56	239,486	2.01
October	965	2.92	2,509	2.70	2,541	2.69	5,050	2.70	251,758	2.33
November	1,874	2.82	[f] 7,359	2.95	[g] 5,076	2.98	12,435	2.96	272,091	2.72
December	1,810	2.12	5,024	2.88	2,543	2.88	7,567	2.88	262,716	2.19
Total	17,243	2.31	47,183	2.81	30,596	2.63	77,778	2.74	2,994,173	2.17

[a] Receved from United Arab Emirates.
[b] 2,608 received from Algeria and 2,425 received from United Arab Emirates.
[c] 5,003 received from Algeria and 2,417 received from United Arab Emirates.
[d] Received from Australia.
[e] 2,477 received from Algeria and 2,337 received from Australia.
[f] 4,995 received from Algeria and 2,363 received from Australia.
[g] 2,546 received from Algeria and 2,530 received from Australia.
- = Not applicable.
Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska.
Source: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*

Table SR7. Summary of U.S. Natural Gas Imports, 1977-1997
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Pipeline				Total Pipeline	
	Canada		Mexico		Volume	Average Price
	Volume	Average Price	Volume	Average Price		
1977 Total	996,722	1.99	2,384	2.25	999,106	1.99
1978 Total	881,123	2.19	0	-	881,123	2.19
1979 Total	1,000,775	2.61	0	-	1,000,775	2.61
1980 Total	796,507	4.32	102,410	4.41	898,917	4.33
1981 Total	762,107	4.83	105,013	5.01	867,120	4.85
1982 Total	783,407	4.97	94,794	5.02	878,200	4.98
1983 Total	711,923	4.49	75,361	4.70	787,284	4.51
1984 Total	755,368	4.01	51,502	4.49	806,870	4.04
1985 Total	926,056	3.17	0	-	926,056	3.17
1986 Total	748,780	2.42	0	-	748,780	2.42
1987 Total	992,532	1.95	0	-	992,532	1.95
1988 Total	1,276,322	1.83	0	-	1,276,322	1.83
1989 Total	1,339,357	1.81	0	-	1,339,357	1.81
1990 Total	1,448,065	1.91	0	-	1,448,065	1.91
1991 Total	1,709,716	1.81	0	-	1,709,716	1.81
1992 Total	2,094,387	1.84	0	-	2,094,387	1.84
1993 Total	2,266,751	2.02	1,678	1.94	2,268,429	2.02
1994 Total	2,565,364	1.86	7,013	1.99	2,572,377	1.86
1995 Total	2,816,408	1.48	6,722	1.53	2,823,130	1.48
1996						
January	259,656	2.08	1,499	2.03	261,155	2.08
February	230,546	1.94	698	2.14	231,244	1.94
March	237,668	1.91	1,259	2.34	238,927	1.91
April	230,928	1.86	1,369	2.18	232,297	1.86
May	245,522	1.70	4,024	2.14	249,546	1.71
June	225,875	1.70	711	2.35	226,587	1.70
July	232,908	1.82	1,313	2.58	234,221	1.83
August	235,199	1.80	30	1.70	235,229	1.80
September	234,206	1.60	770	1.69	234,976	1.60
October	241,294	1.68	1,110	2.37	242,403	1.68
November	245,795	2.25	982	2.85	246,776	2.25
December	263,681	3.00	96	3.30	263,777	3.00
Total	2,883,277	1.96	13,862	2.25	2,897,138	1.96
1997						
January	266,756	3.27	1,555	3.09	268,310	3.27
February	230,352	2.50	2,526	2.49	232,878	2.50
March	251,328	1.70	3,127	1.83	254,455	1.70
April	235,431	1.66	189	1.92	235,621	1.66
May	234,345	1.81	2,380	2.03	236,725	1.82
June	225,366	1.87	1,692	2.20	227,059	1.87
July	229,479	1.82	1,088	1.98	230,567	1.82
August	237,142	1.81	6	2.35	237,149	1.81
September	232,090	2.00	29	2.47	232,119	2.00
October	245,742	2.32	965	2.92	246,707	2.32
November	257,782	2.71	1,874	2.82	259,656	2.71
December	253,338	2.17	1,810	2.12	255,149	2.17
Total	2,899,152	2.15	17,243	2.31	2,916,394	2.15

See footnotes at the end of table.

Table SR7. Summary of U.S. Natural Gas Imports, 1977-1997 (Continued)
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	LNG						Grand Total	
	Algeria		Canada		Other		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price		
1977 Total	11,324	0.92	572	3.96	0	-	1,011,002	1.98
1978 Total	84,422	1.53	0	-	0	-	965,545	2.13
1979 Total	252,608	2.03	0	-	0	-	1,253,383	2.49
1980 Total	85,850	3.77	0	-	0	-	984,767	4.28
1981 Total	36,824	5.54	6	6.63	0	-	903,949	4.88
1982 Total	55,136	5.82	0	-	0	-	933,336	5.03
1983 Total	131,124	6.41	0	-	0	-	918,407	4.78
1984 Total	36,191	4.90	0	-	0	-	843,060	4.08
1985 Total	23,659	4.60	0	-	0	-	949,715	3.21
1986 Total	0	-	0	-	[a] 1,669	4.62	750,449	2.43
1987 Total	0	-	0	-	0	-	992,532	1.95
1988 Total	17,490	2.71	0	-	0	-	1,293,812	1.84
1989 Total	42,163	2.22	0	-	0	-	1,381,520	1.82
1990 Total	84,193	2.47	0	-	0	-	1,532,259	1.94
1991 Total	63,596	2.36	0	-	0	-	1,773,313	1.83
1992 Total	43,116	2.54	0	-	0	-	2,137,504	1.85
1993 Total	81,685	2.20	0	-	0	-	2,350,115	2.03
1994 Total	50,778	2.28	0	-	0	-	2,623,155	1.87
1995 Total	17,918	2.30	0	-	0	-	2,841,048	1.49
1996								
January	2,460	2.81	0	-	0	-	263,615	2.09
February	2,512	2.79	0	-	0	-	233,756	1.95
March	2,599	3.06	0	-	0	-	241,526	1.92
April	4,559	2.43	0	-	0	-	236,857	1.87
May	2,612	2.58	0	-	0	-	252,158	1.72
June	0	-	0	-	0	-	226,587	1.70
July	2,642	3.00	0	-	0	-	236,864	1.84
August	2,629	2.56	0	-	0	-	237,858	1.80
September	0	-	0	-	[b] 2,524	3.34	237,500	1.62
October	5,116	2.96	0	-	0	-	247,520	1.71
November	5,031	2.59	0	-	0	-	251,807	2.26
December	5,164	2.51	0	-	[b] 2,425	3.57	271,366	3.00
Total	35,325	2.70	0	-	4,949	3.46	2,937,413	1.97
1997								
January	7,560	2.78	0	-	[b] 2,417	3.74	278,288	3.26
February	7,667	3.00	0	-	0	-	240,545	2.52
March	2,530	2.98	0	-	0	-	256,985	1.72
April	2,557	2.23	0	-	0	-	238,178	1.67
May	2,552	2.20	0	-	[c] 2,455	2.68	241,732	1.83
June	5,059	2.49	0	-	0	-	232,118	1.88
July	5,026	2.48	0	-	0	-	235,593	1.84
August	7,535	2.43	0	-	0	-	244,684	1.83
September	5,030	2.41	0	-	[c] 2,337	2.88	239,486	2.01
October	5,050	2.70	0	-	0	-	251,758	2.33
November	7,542	2.89	0	-	[c] 4,893	3.07	272,091	2.72
December	7,567	2.88	0	-	0	-	262,716	2.19
Total	65,675	2.67	0	-	12,103	3.09	2,994,173	2.17

[a] Received from Indonesia.
[b] Received from United Arab Emirates.
[c] Received from Australia.
- = Not applicable.
Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska.
Source: 1994 and Earlier Years: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas". 1995 to 1997: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*

Table SR8. U.S. Natural Gas Exports by Point of Exit, 1996-1997
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Canada (Pipeline)							
	Sumas, WA		Babb, MT		Detroit, MI		Marysville, MI	
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996								
January	373	1.70	0	-	1,299	3.03	354	3.17
February	79	1.60	0	-	2,776	2.32	234	2.79
March	0	-	0	-	4,046	2.51	0	-
April	0	-	0	-	2,085	2.12	0	-
May	0	-	0	-	2,634	2.11	50	2.45
June	0	-	0	-	2,155	2.10	0	-
July	0	-	0	-	2,296	2.20	0	-
August	0	-	0	-	1,850	2.21	0	-
September	0	-	0	-	2,284	1.86	0	-
October	0	-	0	-	3,549	1.85	0	-
November	239	3.63	63	1.46	2,804	2.50	0	-
December	760	3.23	27	1.70	2,631	3.71	0	-
Total	1,451	2.81	91	1.53	30,410	2.36	638	2.97
1997								
January	0	-	0	-	2,569	4.00	325	4.47
February	0	-	0	-	2,397	2.88	298	2.92
March	0	-	0	-	3,396	1.88	828	1.87
April	0	-	0	-	2,923	1.78	681	1.95
May	0	-	0	-	2,719	2.03	623	2.18
June	0	-	0	-	1,950	2.25	623	2.39
July	0	-	0	-	2,025	2.07	644	2.24
August	0	-	0	-	2,641	2.09	644	2.20
September	0	-	0	-	2,195	2.46	621	2.56
October	0	-	0	-	1,860	2.97	0	-
November	0	-	0	-	3,247	3.36	0	-
December	0	-	0	-	3,158	2.84	0	-
Total	0	-	0	-	31,080	2.55	5,286	2.36

See footnotes at the end of table.

Table SR8. U.S. Natural Gas Exports by Point of Exit, 1996-1997 (Continued)
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Canada (Pipeline)				Mexico (Pipeline)			
	St. Clair, MI		Total		Clint, TX		Douglas, AZ	
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996								
January	5,019	3.25	7,044	3.13	0	-	102	1.37
February	2,117	3.25	5,207	2.71	0	-	3	1.34
March	2,570	3.22	6,616	2.79	0	-	85	1.15
April	345	2.79	2,430	2.21	0	-	166	1.31
May	126	2.94	2,809	2.15	0	-	690	1.73
June	845	2.64	3,001	2.25	0	-	718	1.56
July	1,481	2.84	3,777	2.45	0	-	239	1.47
August	347	2.78	2,197	2.30	0	-	230	2.00
September	230	2.76	2,514	1.94	0	-	220	1.55
October	762	2.52	4,311	1.97	0	-	267	1.62
November	3,671	2.95	6,776	2.77	0	-	253	2.46
December	1,803	3.82	5,222	3.67	0	-	433	3.63
Total	19,315	3.13	51,905	2.67	0	-	3,405	1.92
1997								
January	1,299	4.15	4,193	4.08	0	-	555	4.09
February	2,474	3.18	5,169	3.02	0	-	805	2.36
March	4,891	2.20	9,115	2.05	0	-	780	1.49
April	1,564	1.70	5,168	1.78	0	-	13	1.89
May	766	2.18	4,107	2.08	0	-	78	1.95
June	589	2.27	3,162	2.28	0	-	156	2.00
July	588	2.29	3,257	2.14	0	-	328	2.00
August	535	2.38	3,820	2.15	0	-	279	2.07
September	312	1.40	3,129	2.37	0	-	386	2.33
October	572	2.46	2,432	2.85	0	-	254	2.86
November	2,332	2.74	5,579	3.10	0	-	17	2.90
December	4,160	2.39	7,318	2.58	111	2.24	251	2.16
Total	20,080	2.51	56,447	2.52	111	2.24	3,901	2.38

See footnotes at the end of table.

Table SR8. U.S. Natural Gas Exports by Point of Exit, 1996-1997 (Continued)
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Mexico (Pipeline)							
	Eagle Pass, TX		El Paso, TX		Hidalgo, TX		Penitas, TX	
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996								
January	124	2.38	1,382	1.98	0	-	0	-
February	97	2.06	1,069	1.76	0	-	831	1.89
March	85	2.18	846	1.61	0	-	1,845	1.91
April	69	2.48	862	1.95	827	1.44	0	-
May	62	2.34	1,148	1.89	0	-	0	-
June	56	2.46	811	2.01	1,242	2.44	660	2.43
July	48	2.65	1,238	2.24	666	2.39	870	2.30
August	56	2.44	1,731	2.12	3,719	2.13	3,440	2.10
September	58	2.01	810	1.61	457	1.92	844	1.78
October	78	1.98	1,264	1.90	380	1.79	0	-
November	94	2.77	1,186	2.56	0	-	0	-
December	116	3.84	1,060	3.76	305	3.63	0	-
Total	942	2.52	13,406	2.14	7,597	2.16	8,489	2.05
1997								
January	144	4.05	1,525	4.08	7	2.89	0	-
February	121	2.92	672	2.17	79	2.22	0	-
March	93	1.87	611	1.57	2	1.70	0	-
April	92	1.96	2,087	1.72	853	2.10	0	-
May	81	2.23	2,018	1.95	0	-	0	-
June	75	2.45	1,810	2.14	429	2.14	109	2.19
July	79	2.31	1,298	2.09	1,418	2.29	0	-
August	64	2.35	1,984	2.22	3,776	2.46	169	2.43
September	73	2.66	1,064	2.31	2,832	2.82	1,792	2.47
October	149	3.20	2,505	2.77	783	3.01	424	3.00
November	127	3.44	580	2.88	568	3.25	398	3.21
December	163	2.59	1,626	2.26	1,288	2.30	84	2.26
Total	1,260	2.79	17,779	2.36	12,035	2.54	2,977	2.62

See footnotes at the end of table.

Table SR8. U.S. Natural Gas Exports by Point of Exit, 1996-1997 (Continued)
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Mexico (Pipeline)				Japan (LNG)		Grand Total	
	Calexico, CA		Total		Port Nikiski, AK			
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1996								
January	0	-	1,607	1.98	5,534	3.38	14,186	3.10
February	0	-	2,000	1.82	5,621	3.35	12,828	2.85
March	0	-	2,860	1.81	5,642	3.55	15,118	2.88
April	0	-	1,924	1.69	5,654	3.57	10,008	2.88
May	0	-	1,899	1.84	3,750	3.61	8,458	2.73
June	0	-	3,486	2.16	5,651	3.65	12,138	2.87
July	0	-	3,062	2.24	7,546	3.66	14,385	3.04
August	0	-	9,176	2.11	5,663	3.67	17,036	2.65
September	0	-	2,389	1.73	5,663	3.73	10,566	2.85
October	0	-	1,990	1.85	5,589	3.84	11,889	2.83
November	0	-	1,533	2.56	5,670	4.01	13,979	3.25
December	0	-	1,914	3.72	5,665	3.73	12,801	3.70
Total	0	-	33,840	2.11	67,648	3.65	153,393	2.97
1997								
January	0	-	2,231	4.08	5,604	4.25	12,028	4.16
February	0	-	1,677	2.32	5,596	4.20	12,443	3.46
March	0	-	1,486	1.55	5,675	4.16	16,276	2.74
April	0	-	3,044	1.83	5,660	4.06	13,872	2.72
May	0	-	2,177	1.96	3,812	3.83	10,097	2.72
June	0	-	2,579	2.14	3,786	3.72	9,527	2.81
July	*	2.53	3,122	2.17	3,756	3.66	10,136	2.71
August	10	2.56	6,282	2.37	7,532	3.62	17,633	2.86
September	13	2.84	6,159	2.59	3,767	3.58	13,055	2.83
October	67	3.44	4,182	2.87	5,676	3.58	12,289	3.19
November	91	3.70	1,782	3.16	5,691	3.66	13,051	3.35
December	128	2.69	3,650	2.30	5,631	3.58	16,600	2.86
Total	308	3.15	38,372	2.46	62,187	3.83	157,006	3.02

- = Not applicable.

Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska.

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

Table SR9. Summary of U.S. Natural Gas Exports, 1977-1997
(Volume in Million Cubic Feet; Average Price in Dollars per Thousand Cubic Feet)

Year and Month	Pipeline				Total Pipeline		LNG		Grand Total	
	Canada		Mexico		Volume	Average Price	Japan		Volume	Average Price
	Volume	Average Price	Volume	Average Price			Volume	Average Price		
1977 Total	31	1.54	3,940	1.41	3,971	1.41	51,655	1.96	55,626	1.92
1978 Total	66	1.79	4,003	1.65	4,098	1.66	48,434	2.17	52,532	2.13
1979 Total	76	2.04	4,308	1.97	4,384	1.97	51,289	2.32	55,673	2.29
1980 Total	113	3.31	3,886	2.47	3,999	2.50	44,732	4.90	48,731	4.70
1981 Total	106	4.79	3,337	3.37	3,443	3.41	55,929	6.05	59,372	5.90
1982 Total	162	4.95	1,705	5.17	1,867	5.15	49,861	5.83	51,728	5.81
1983 Total	136	4.60	1,646	4.79	1,782	4.78	52,857	5.11	54,639	5.10
1984 Total	127	4.19	1,786	4.48	1,913	4.46	52,840	4.93	54,753	4.83
1985 Total	178	3.06	2,207	3.99	2,385	3.92	52,883	4.81	55,268	4.77
1986 Total	9,203	2.12	1,896	3.49	11,099	2.35	50,172	2.91	61,271	2.81
1987 Total	3,297	1.81	2,125	3.18	5,421	2.35	48,599	3.15	54,020	3.07
1988 Total	19,738	2.02	2,327	3.21	22,065	2.14	51,573	2.99	73,638	2.74
1989 Total	38,443	2.00	17,004	2.14	55,447	2.05	51,424	3.01	106,871	2.51
1990 Total	17,359	2.70	15,659	1.88	33,018	2.31	52,546	3.59	85,565	3.10
1991 Total	14,791	1.91	60,448	1.76	75,239	1.79	54,005	3.71	129,244	2.59
1992 Total	67,777	1.83	95,973	1.90	163,750	1.88	52,532	3.43	216,282	2.25
1993 Total	44,518	2.14	39,676	2.02	84,195	2.08	55,989	3.34	140,183	2.59
1994 Total	52,556	2.42	46,500	1.68	99,057	2.08	62,682	3.18	161,738	2.50
1995 Total	27,554	1.96	61,283	1.50	88,836	1.64	65,283	3.41	154,119	2.39
1996										
January	7,044	3.13	1,607	1.98	8,651	2.91	5,534	3.38	14,186	3.10
February	5,207	2.71	2,000	1.82	7,206	2.46	5,621	3.35	12,828	2.85
March	6,616	2.79	2,860	1.81	9,476	2.49	5,642	3.55	15,118	2.88
April	2,430	2.21	1,924	1.69	4,354	1.98	5,654	3.57	10,008	2.88
May	2,809	2.15	1,899	1.84	4,709	2.03	3,750	3.61	8,458	2.73
June	3,001	2.25	3,486	2.16	6,487	2.20	5,651	3.65	12,138	2.87
July	3,777	2.45	3,062	2.24	6,839	2.35	7,546	3.66	14,385	3.04
August	2,197	2.30	9,176	2.11	11,373	2.15	5,663	3.67	17,036	2.65
September	2,514	1.94	2,389	1.73	4,903	1.84	5,663	3.73	10,566	2.85
October	4,311	1.97	1,990	1.85	6,301	1.93	5,589	3.84	11,889	2.83
November	6,776	2.77	1,533	2.56	8,309	2.73	5,670	4.01	13,979	3.25
December	5,222	3.67	1,914	3.72	7,136	3.68	5,665	3.73	12,801	3.70
Total	51,905	2.67	33,840	2.11	85,745	2.45	67,648	3.65	153,393	2.97
1997										
January	4,193	4.08	2,231	4.08	6,424	4.08	5,604	4.25	12,028	4.16
February	5,169	3.02	1,677	2.32	6,846	2.85	5,596	4.20	12,443	3.46
March	9,115	2.05	1,486	1.55	10,601	1.98	5,675	4.16	16,276	2.74
April	5,168	1.78	3,044	1.83	8,211	1.80	5,660	4.06	13,872	2.72
May	4,107	2.08	2,177	1.96	6,284	2.04	3,812	3.83	10,097	2.72
June	3,162	2.28	2,579	2.14	5,741	2.22	3,786	3.72	9,527	2.81
July	3,257	2.14	3,122	2.17	6,380	2.16	3,756	3.66	10,136	2.71
August	3,820	2.15	6,282	2.37	10,101	2.28	7,532	3.62	17,633	2.86
September	3,129	2.37	6,159	2.59	9,288	2.52	3,767	3.58	13,055	2.83
October	2,432	2.85	4,182	2.87	6,613	2.86	5,676	3.58	12,289	3.19
November	5,579	3.10	1,782	3.16	7,361	3.12	5,691	3.66	13,051	3.35
December	7,318	2.58	3,650	2.30	10,968	2.49	5,631	3.58	16,600	2.86
Total	56,447	2.52	38,372	2.46	94,818	2.49	62,187	3.83	157,006	3.02

Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska.

Source: 1994 and Earlier Years: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." 1995 to 1997: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports.*

Highlights

Overview

This issue of the *Natural Gas Monthly* presents the most recent estimates of natural gas data from the Energy Information Administration (EIA). Estimates extend through August 1998 for many data series and through May for most price series. This issue also includes a special report, "U.S. Natural Gas Imports and Exports—1997," which presents detailed information on 1997 import and export trade with Canada and Mexico and shipments of liquefied natural gas (LNG).

Highlights of the August 1998 data contained in this issue are:

- The rate of injections into underground storage continues at a strong pace but slowed somewhat in August when net injections were estimated at 275 billion cubic feet, 15 percent less than in August 1997. Working gas in storage at the end of August 1998 was 2,726 billion cubic feet, 17 percent higher than the level a year ago.
- Thus far in 1998, monthly estimates of natural gas production are 1 percent higher than 1997 levels and estimates of net imports are 4 percent higher.
- Cumulatively for January through August 1998, total end-use consumption of natural gas is estimated to be 13,184 billion cubic feet, 2 percent lower than for the same period of 1997. Consumption declined in the residential, commercial, and industrial sectors.
- Cumulatively from January through May 1998, all natural gas prices dropped compared with levels for the same time period in 1997. The wellhead price remained virtually unchanged from March through May.

Supply

Estimates of natural gas production and net imports through August 1998 indicate a slight increase in supply compared with year-ago levels. Dry gas production in August 1998 is estimated to be 1,603 billion cubic feet or 51.7 billion cubic feet per day (Table 1). This level is nearly the same as the previous month's estimate and 1 percent higher than in August 1997. Cumulatively from January through August, dry production rose about 1 percent from 1997 to 1998 (Figure HI1).

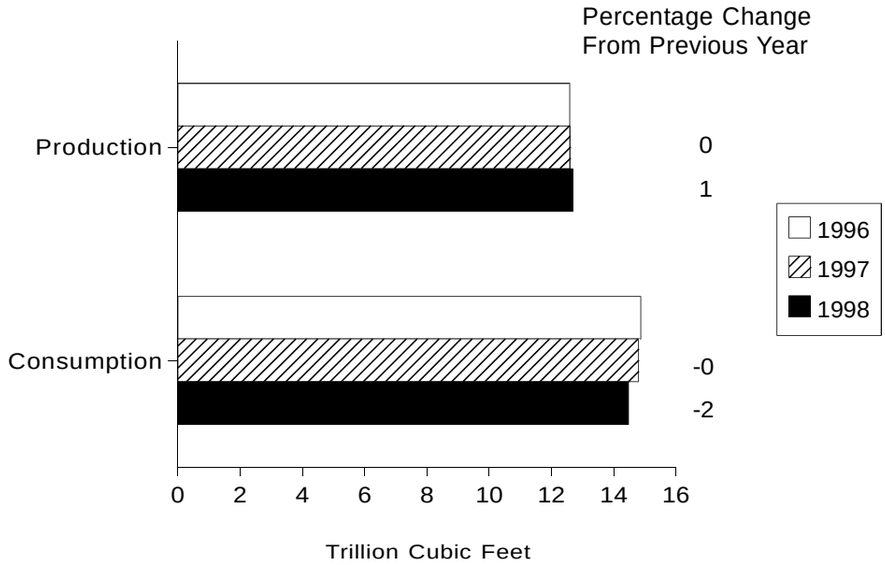
Net imports, which are an important component of the supply of natural gas in the United States, are estimated to be 244 billion cubic feet in August 1998 or 7.9 billion cubic feet per day (Table 2). The monthly estimates of net imports in 1998 have exceeded those of 1997 in every month. Cumulatively for January through August, net imports are 4 percent higher than they were 1 year ago.

Although the rate of injections into underground storage continued to be strong as the 1998 refill season proceeded, it began to slow in August when net injections were estimated at 275 billion cubic feet, 15 percent less than in August 1997. Working gas in underground storage had ended the 1997-98 heating season (November through March) at 1,184 billion cubic feet, 19 percent more than at the end of the previous heating season. Despite this higher working gas level, so far this refill season an estimated 1,539 billion cubic feet of gas has been added to underground storage, 14 percent more than during the same months last year. Working gas in storage at the end of August 1998 is estimated to be 2,726 billion cubic feet, 17 percent more than at the end of August 1997. (Figure HI2).

End-Use Consumption

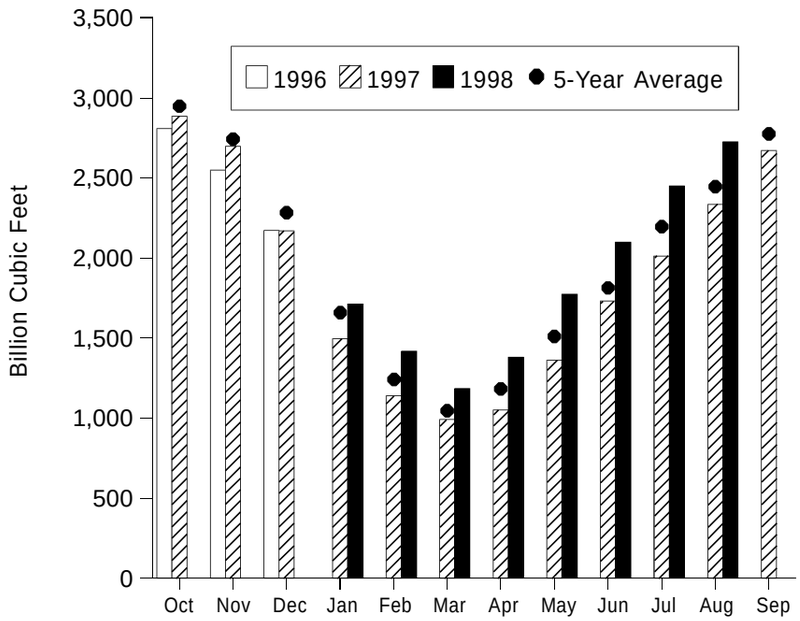
Natural gas consumption by end users in August 1998 is estimated to be 1,409 billion cubic feet , an increase of slightly more than 1 percent over the July level (Table 3). Cumulatively for January through August 1998, end-use consumption is estimated to be 13,184 billion cubic feet, 2 percent lower than for the same period of 1997. The cumulative decline occurred across the residential, commercial, and industrial sectors as respective consumption levels were estimated at 264, 136, and 87 billion cubic feet lower than during the first 8 months of 1997 (Figure H13).

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



Source: Table 2.

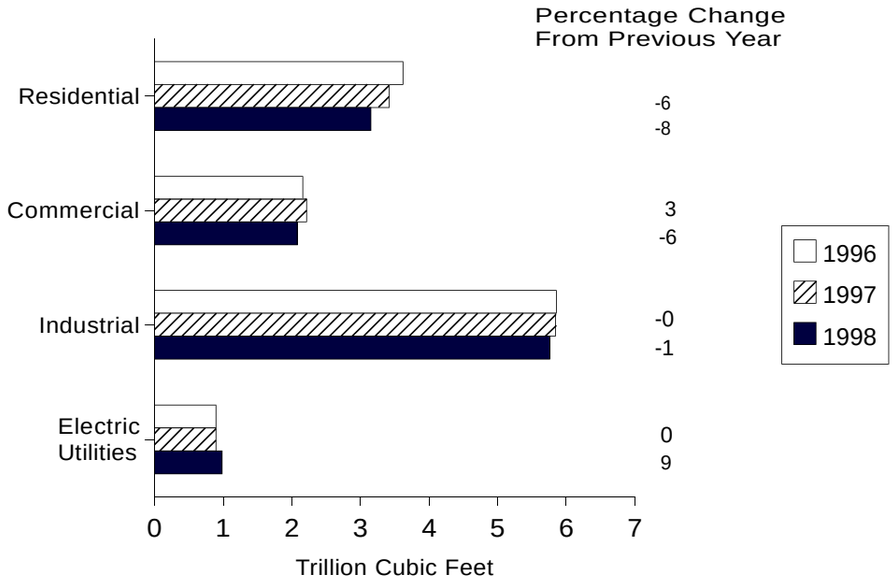
Figure HI2. Working Gas in Underground Storage in the United States, 1996-1998



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

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

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



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

Consumption estimates in the residential and commercial sectors totaled 265 billion cubic feet in August 1998. This level is virtually the same as the volume consumed in August 1997. Cumulatively, the residential and commercial sectors showed a 7-percent decline in 1998 compared with consumption for those sectors in 1997. Declines in residential and commercial consumption are attributable to both the warmer-than-normal temperatures during the 1997-98 heating season and the seasonal decline in demand for natural gas for space heating during the summer months.

Industrial sector consumption during August 1998 is estimated at 708 billion cubic feet, nearly 5 percent higher than in the previous month and about 1 percent lower than in August 1997. Industrial consumers used an estimated 5,762 billion cubic feet of natural gas during the first 8 months of 1998, down 1 percent or 87 billion cubic feet from the first 8 months of 1997.

Estimates of natural gas consumption by electric utilities are now available through May 1998. Electric utilities consumed an estimated 293 billion cubic feet in May 1998, 54 percent more than during the previous month and 27 percent more than in May a year ago. Consumption of natural gas by electric utilities typically increases during the summer months when residential and commercial space-heating requirements decline and the demand for air conditioning is greatest. Cumulatively, from January through May, electric utility consumption was 982 billion cubic feet, 9 percent higher than during the same period of 1997.

Prices

The average natural gas wellhead price in May 1998 is estimated to be $1.88 per thousand cubic feet, only 1 cent lower than the April price and 2 cents higher than the March price (Table 4). This is the third consecutive month that the price has remained virtually unchanged

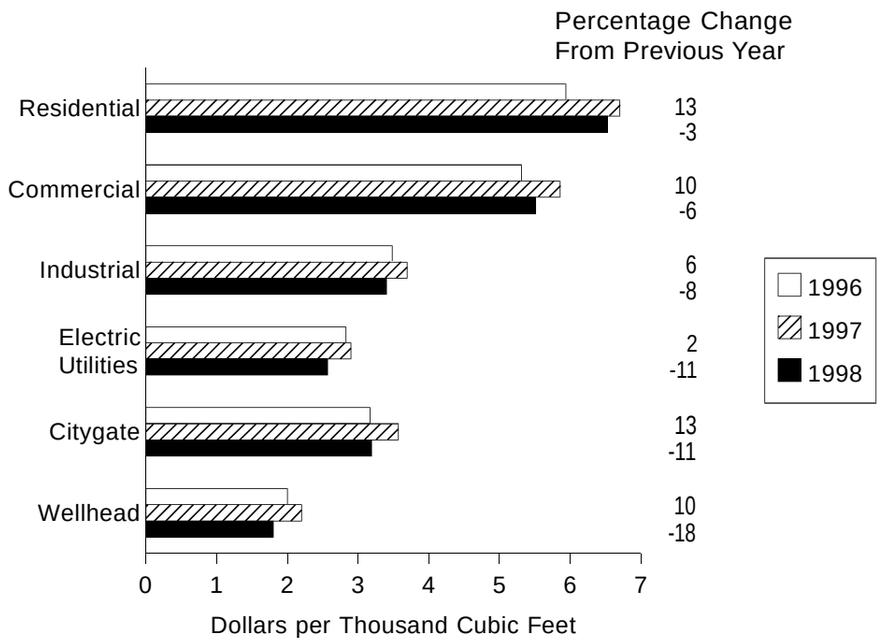
in a range between $1.86 and $1.89 per thousand cubic feet. This period of stable prices follows the first 2 months of the year which saw the wellhead price decline 21 to 24 percent from the end of last year. The sharp drop in January and February prices was the result of the unseasonably warm weather during the period.

The estimated price paid for natural gas in the residential sector increased by 13 percent between April and May to $7.60 per thousand cubic feet. Cumulatively from January through May 1998, the price averaged $6.53 per thousand cubic feet, 3 percent less than during the same period in 1997 (Figure HI4). The price for deliveries to commercial consumers increased by 7 cents per thousand cubic feet, or 1 percent, between April and May. Through the first 5 months of the year, it was 6 percent lower than during the same 5-month period of the previous year.

In the industrial sector, the price declined by 10 cents per thousand cubic feet or 3 percent in May. Cumulatively from January through May, the industrial price was 8 percent below the level for the same period in 1997. The electric utility prices are available through April 1998 in this report. Cumulatively from January through April, estimated prices in the electric utility sector are 11 percent lower in 1998 than in 1997—$2.57 versus $2.90 per thousand cubic feet.

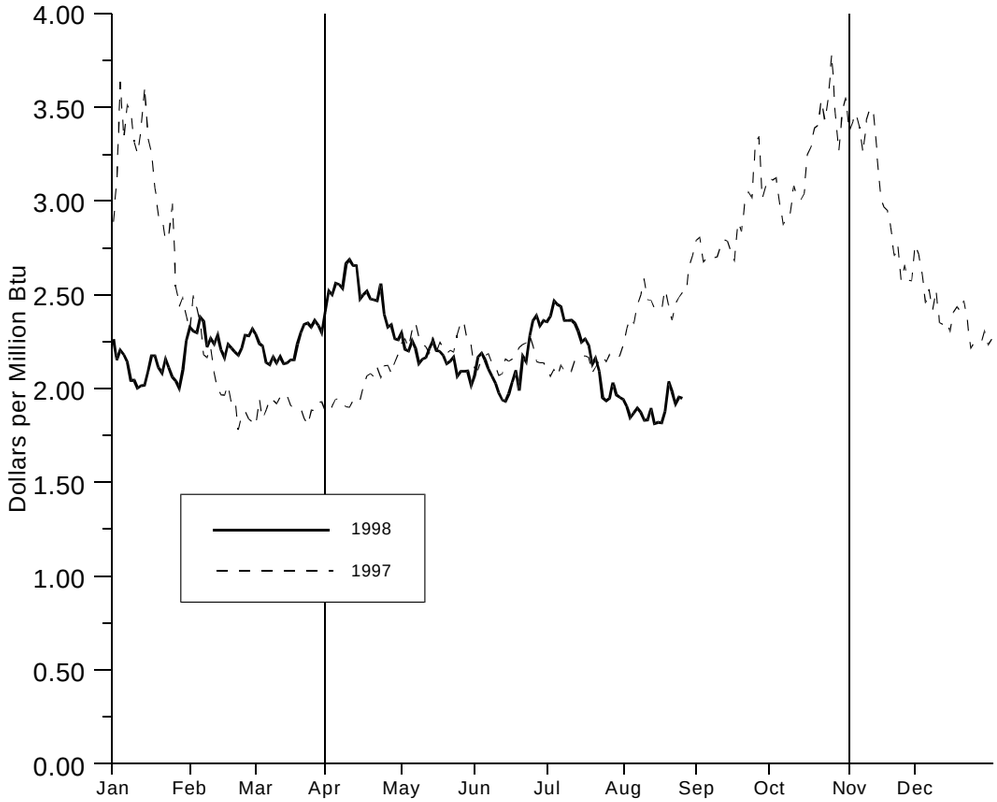
The August futures contract at the Henry Hub expired on July 26 at $1.941 per MMBtu—more than 55 cents lower than last year's price ($2.515). The September contract price continued this downward trend and on August 27, settled at $1.672 per MMBtu, almost $0.85 less than last year. Temperatures in the Southwest have moderated during the last half of August and demand for gas by electric utilities in Texas has slowed to the more moderate levels prevalent in other parts of the country. The moderate demand combined with ample supply and the elevated level of gas in storage continue to contribute to a softening in the price of gas.

Figure HI4. Average Delivered and Wellhead Natural Gas Prices, January-May 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	[RE]2,106	[E]334	[E]44	[E]24	[RE]1,704	[E]83	[RE]1,621
Total	[RE]24,342	[E]3,685	[E]503	[E]258	[RE]19,895	[E]965	[RE]18,930
1998							
January	[E]2,107	[E]331	45	[E]22	[E]1,708	[E]83	[E]1,625
February	[RE]1,923	[E]293	41	[E]19	[E]1,570	[E]76	[E]1,494
March	[RE]2,096	[E]320	[E]45	[E]22	[RE]1,709	[E]83	[RE]1,626
April	[RE]1,980	[RE]285	[E]43	[E]21	[RE]1,631	[RE]79	[RE]1,551
May	[RE]2,094	[RE]314	[E]45	[E]22	[E]1,714	[E]83	[E]1,631
June	[E]1,992	[E]297	[E]43	[E]21	[E]1,632	[E]79	[E]1,553
July(STIFS)	NA	NA	NA	NA	[E]1,693	[E]82	[E]1,611
August(STIFS)	NA	NA	NA	NA	[E]1,685	[E]82	[E]1,603
1998 YTD	NA	NA	NA	NA	[E]13,342	[E]647	[E]12,694
1997 YTD	[E]16,173	[E]2,430	[E]331	[E]169	[E]13,243	[E]642	[E]12,601
1996 YTD	16,066	2,315	338	181	13,232	642	12,591

[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	[R]266	684	[R]-68	[R]2,516
February	[E]1,477	[E]11	[R]228	358	[R]182	2,256
March	[E]1,628	[E]10	[R]241	155	[R]74	[R]2,108
April	[E]1,547	[E]9	[R]224	-58	[R]72	1,794
May	[E]1,610	[E]9	[R]232	-321	[R]70	1,601
June	[E]1,541	[E]7	[R]223	-364	[R]50	[R]1,458
July	[E]1,593	[E]8	[R]225	-281	[R]0	[R]1,546
August	[E]1,582	[E]9	[R]227	-322	[R]26	[R]1,522
September	[E]1,546	[E]7	[R]226	-336	[R]0	[R]1,445
October	[E]1,589	[E]9	[R]239	-211	[R]-93	[R]1,533
November	[E]1,574	[E]11	[R]259	189	[R]-148	1,885
December	[RE]1,621	[E]12	246	533	[R]-97	[R]2,316
Total	[RE]18,930	[E]116	[R]2,837	27	[R]70	[R]21,980
1998						
January	[E]1,625	[E]12	267	466	[R]23	[R]2,393
February	[E]1,494	[E]10	237	299	[R]63	[R]2,102
March	[RE]1,626	[E]11	244	241	-1	[R]2,122
April	[RE]1,551	[E]9	[RE]234	-198	[R]105	[R]1,700
May	[E]1,631	[E]8	[RE]241	-393	[R]100	1,589
June	[E]1,553	[E]7	[E]237	-323	-7	[E]1,467
July(STIFS)	[E]1,611	[E]9	[E]238	[RE]-350	[RE]35	[E]1,542
August(STIFS)	[E]1,603	[E]9	[E]244	[E]-275	[E]-21	[E]1,560
1998 YTD	[E]12,694	[E]76	[E]1,941	[E]-533	[E]296	[E]14,477
1997 YTD	[E]12,601	[E]77	1,866	-149	407	14,801
1996 YTD	12,591	73	1,825	-69	453	14,873

[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.

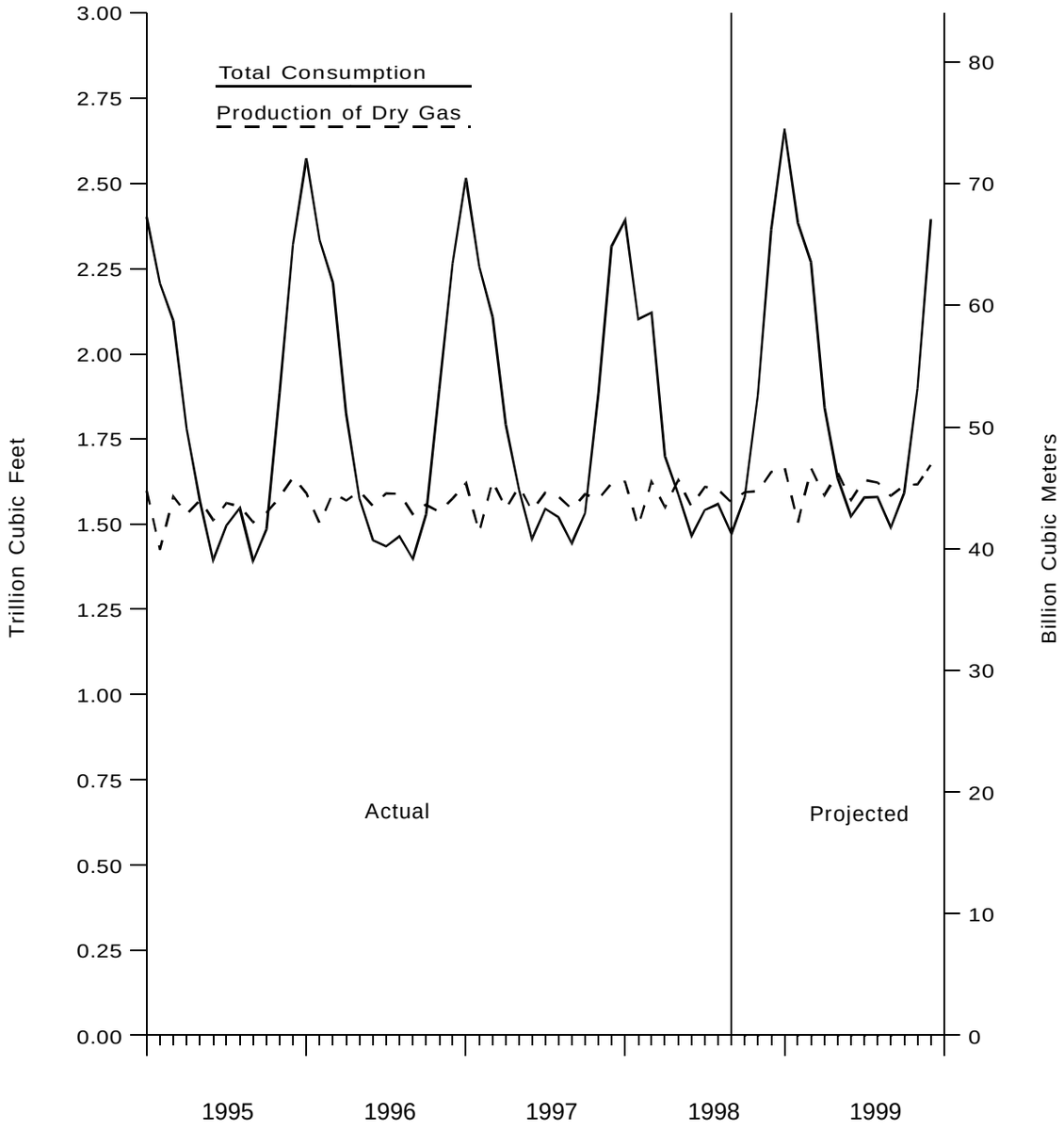
[E] = Estimated Data.

[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	82	907	478	[R]804	139	[R]2,328	[R]2,516
February	[E]97	73	767	428	748	143	2,086	2,256
March	[E]107	68	[R]609	366	768	190	[R]1,933	[R]2,108
April	[E]102	58	[R]436	273	[R]732	193	1,634	1,794
May	[E]106	52	[R]288	213	[R]712	231	1,443	1,601
June	[E]101	47	[R]165	161	[R]687	296	[R]1,309	[R]1,458
July	[E]105	50	[R]129	[R]149	[R]685	428	[R]1,391	[R]1,546
August	[E]104	49	[R]117	[R]147	[R]713	391	[R]1,368	[R]1,522
September	[E]102	47	[R]130	[R]146	687	333	[R]1,296	[R]1,445
October	[E]105	50	[R]235	[R]194	[R]704	246	[R]1,379	[R]1,533
November	[E]104	61	499	[R]318	[R]723	180	[R]1,721	1,885
December	[E]107	75	732	[R]414	790	199	[R]2,134	[R]2,316
Total	[RE]1,245	712	[R]5,014	[R]3,286	[R]8,753	2,969	[R]20,022	[R]21,980
1998								
January	[E]107	[R]78	794	445	[R]799	171	[R]2,209	[R]2,393
February	[E]98	68	[R]681	392	[R]730	134	[R]1,936	[R]2,102
March	[E]107	69	[R]635	368	[R]749	194	[R]1,946	[R]2,122
April	[RE]102	55	[R]405	[R]254	694	190	[R]1,543	[R]1,700
May	[E]107	51	219	175	744	293	1,431	1,589
June(STIFS)	[E]100	[E]46	[E]166	[E]152	[E]662	NA	[E]1,322	[E]1,467
July(STIFS)	[E]103	[E]50	[E]134	[E]148	[E]677	NA	[E]1,389	[E]1,542
August(STIFS)	[E]103	[E]48	[E]120	[E]145	[E]708	NA	[E]1,409	[E]1,560
1998 YTD[d]	[E]828	[E]466	[E]3,154	[E]2,079	[E]5,762	982	[E]13,184	[E]14,477
1997 YTD	[E]829	479	3,418	2,215	5,849	897	13,493	14,801
1996 YTD	836	482	3,620	2,159	5,857	895	13,554	14,873

[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.

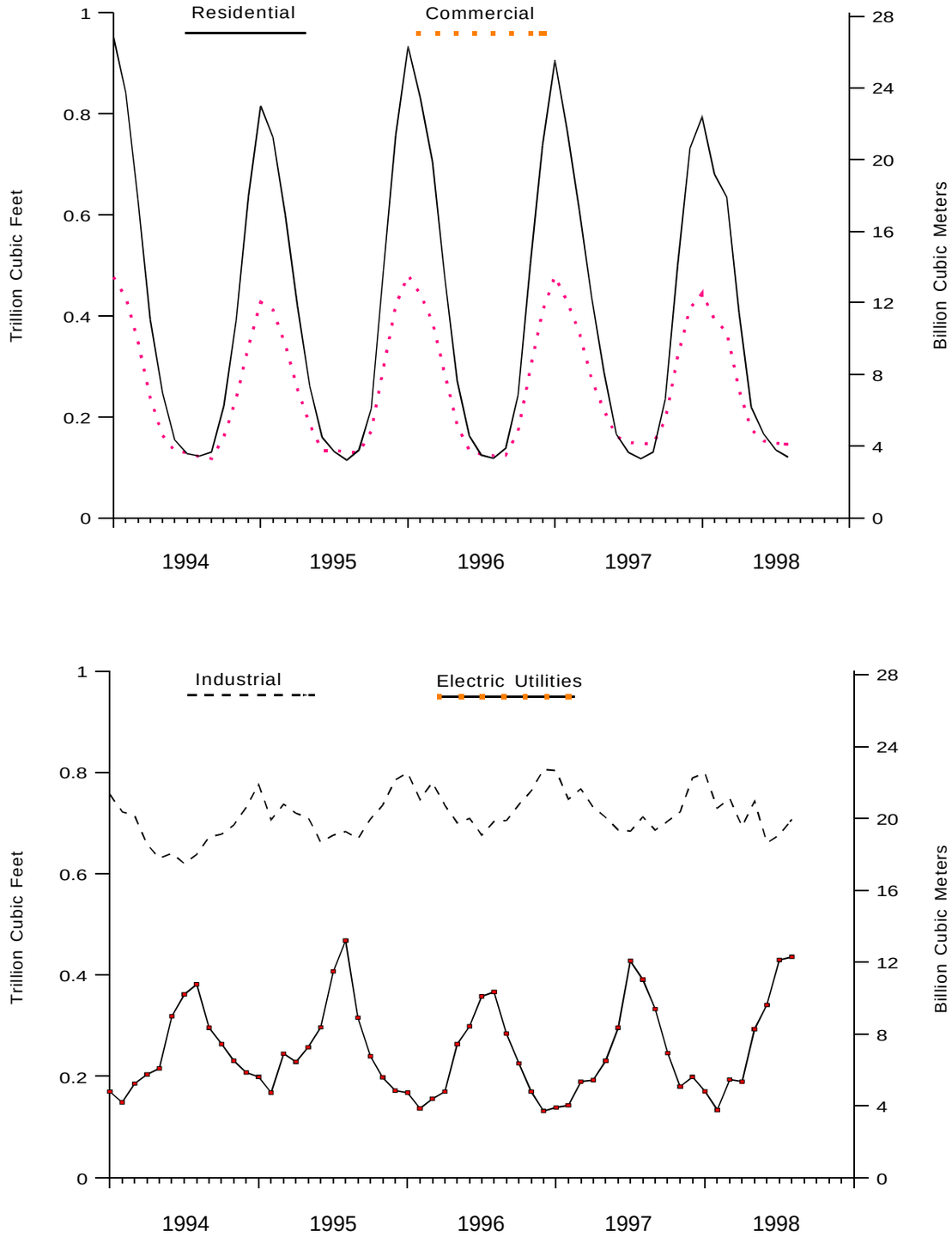
[RE] = Revised Estimated Data.

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)

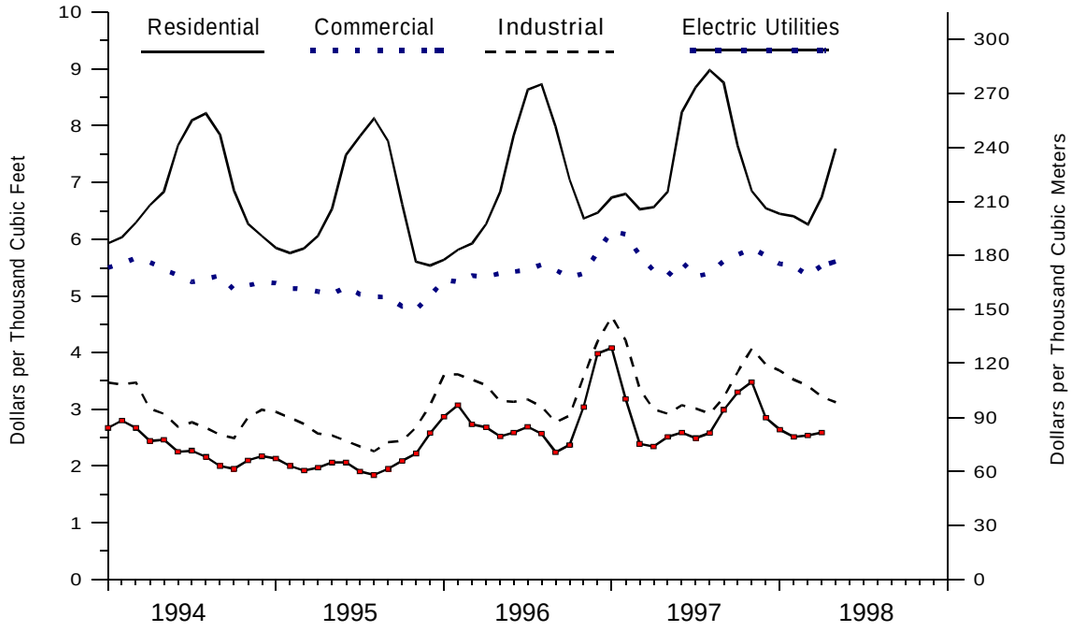
Year and Month	Wellhead Price[a]	City Gate Price	Delivered to Consumers					
			Residential Price	Commercial		Industrial		Electric Utilities Price
				Price	% of Total[b]	Price	% of Total[b]	
1992 Annual Average	1.74	3.01	5.89	4.88	83.2	2.84	30.3	2.36
1993 Annual Average	2.04	3.21	6.16	5.22	83.9	3.07	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	[E]3.42	4.27	6.74	6.15	77.9	4.64	19.4	4.08
February	[E]2.44	3.78	6.80	6.09	76.9	4.21	17.7	3.18
March	[E]1.61	[R]3.05	6.53	5.72	73.0	3.36	17.4	2.39
April	[E]1.64	2.94	6.57	5.45	70.8	3.00	16.9	2.34
May	[E]1.87	[R]3.14	[R]6.84	5.36	63.8	2.92	16.6	2.51
June	[E]2.01	[R]3.38	[R]8.24	[R]5.61	[R]60.0	3.07	15.9	2.59
July	[E]1.91	[R]3.50	[R]8.68	[R]5.35	[R]58.2	3.01	14.1	2.49
August	[E]1.95	[R]3.39	[R]8.98	[R]5.40	[R]55.8	2.92	13.9	2.58
September	[E]2.22	[R]3.57	[R]8.76	[R]5.62	[R]57.5	3.21	13.8	2.99
October	[E]2.70	[R]3.90	[R]7.65	[R]5.73	[R]61.6	3.66	15.2	3.30
November	[E]2.77	[R]3.92	6.85	5.84	[R]67.3	4.07	[R]16.2	3.48
December	[E]2.17	[R]3.47	6.55	[R]5.72	72.0	3.79	15.1	2.85
Annual Average	[E]2.23	[R]3.59	[R]6.95	[R]5.78	[R]69.3	3.54	[R]16.1	2.81
1998								
January	[RE]1.72	3.28	6.45	5.57	72.3	3.68	[R]14.9	2.64
February	[E]1.64	3.08	[R]6.41	5.54	70.5	3.52	15.3	2.51
March	[E]1.86	3.22	[R]6.26	5.36	71.6	3.41	16.5	2.54
April	[RE]1.89	3.22	[R]6.74	5.54	67.0	3.22	15.0	2.59
May	[E]1.88	3.12	7.60	5.61	60.3	3.12	12.4	[NA]
1998 YTD[c]	[E]1.80	3.19	6.53	5.51	69.6	3.40	14.8	2.57
1997 YTD	[E]2.20	3.57	6.70	5.86	73.8	3.69	17.6	2.90
1996 YTD	2.00	3.17	5.94	5.31	81.4	3.48	21.3	2.83

[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.
[RE] = Revised 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.

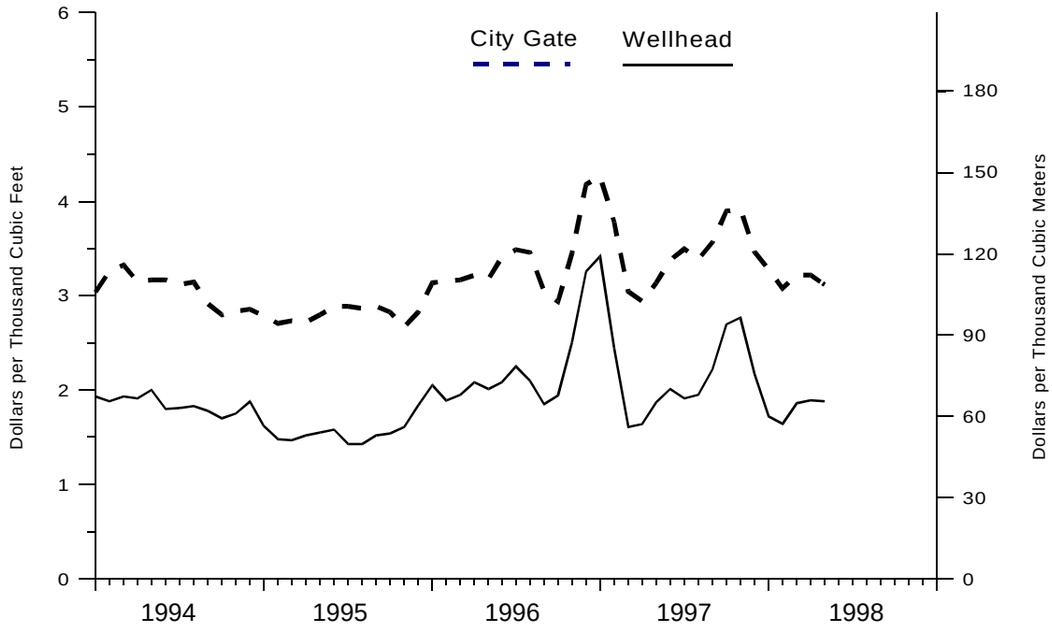
Sources: 1990-1996: Energy Information Administration (EIA) *Natural Gas Annual 1996.* 1997 forward: EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and EIA estimates. January 1997 through 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	[R]266,756	[R]3.27	[R]1,555	[R]3.09	7,560	2.78	[a]2,417	3.68	[R]278,288	[R]3.26
February	[R]230,352	[R]2.50	[R]2,526	[R]2.49	7,667	3.00	—	—	[R]240,545	[R]2.52
March	[R]251,328	[R]1.70	[R]3,127	[R]1.83	2,530	2.98	—	—	[R]256,985	[R]1.72
April	[R]235,431	[R]1.66	189	1.92	2,557	2.23	—	—	[R]238,178	[R]1.67
May	[R]234,345	[R]1.81	[R]2,380	2.03	2,552	2.20	[b]2,455	[R]2.68	[R]241,732	1.83
June	[R]225,366	[R]1.87	[R]1,692	[R]2.20	5,059	[R]2.49	—	—	[R]232,118	[R]1.88
July	[R]229,479	[R]1.82	1,088	1.98	5,026	2.48	—	—	[R]235,593	[R]1.84
August	[R]237,142	[R]1.81	6	2.35	7,535	2.43	—	—	[R]244,684	[R]1.83
September	[R]232,090	[R]2.00	29	2.47	5,030	2.41	[b]2,337	2.88	[R]239,486	[R]2.01
October	[R]245,742	2.32	965	2.92	5,050	2.70	—	—	[R]251,758	2.33
November	[R]257,782	[R]2.71	[R]1,874	2.82	7,542	2.89	[a]4,893	3.07	[R]272,091	[R]2.72
December	[R]253,338	[R]2.17	1,810	2.12	7,567	2.88	—	—	[R]262,716	[R]2.19
Total	[R]2,899,152	[R]2.15	[R]17,243	[R]2.32	65,675	2.67	12,103	[R]3.08	[R]2,994,173	2.17
1998										
January	273,189	2.02	56	2.11	10,105	2.89	—	—	283,351	2.05
February	235,288	1.95	2,824	1.97	7,607	2.78	[a]2,171	3.99	247,890	1.99
March	258,067	1.99	382	2.20	5,166	3.19	—	—	263,615	2.01
April	[R]242,191	NA	[RE]3,003	NA	2,549	NA	—	—	[RE]247,743	NA
May	[E]245,000	NA	[RE]1,020	NA	7,596	NA	—	—	[RE]253,616	NA
June	[E]245,975	NA	[E]0	—	5,125	NA	[a]2,441	NA	[E]253,541	NA
1998 YTD	[E]1,499,710	NA	[E]7,285	NA	38,149	NA	4,612	NA	[E]1,549,756	NA
1997 YTD	1,443,578	2.16	11,469	2.24	27,925	2.70	4,873	3.18	1,487,845	2.17
1996 YTD	1,430,196	1.87	9,560	2.17	14,743	2.69	0	—	1,454,498	1.88

[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	[R]2,231	[R]4.08	5,604	4.25	[R]12,028	4.16
February	5,169	3.02	[R]1,677	2.32	5,596	[R]4.20	[R]12,443	[R]3.46
March	[R]9,115	[R]2.05	[R]1,486	1.55	5,675	[R]4.16	[R]16,276	[R]2.74
April	[R]5,168	1.78	[R]3,044	1.83	5,660	4.06	[R]13,872	2.72
May	[R]4,107	[R]2.08	2,177	1.96	3,812	[R]3.83	10,097	[R]2.72
June	3,162	2.28	2,579	2.14	3,786	[R]3.72	9,527	[R]2.81
July	3,257	2.14	3,122	2.17	3,756	3.66	[R]10,136	2.71
August	3,820	[R]2.15	6,282	2.37	7,532	3.62	[R]17,633	[R]2.86
September	[R]3,129	2.37	[R]6,159	[R]2.59	3,767	[R]3.58	[R]13,055	[R]2.83
October	[R]2,432	2.85	4,182	2.87	[R]5,676	3.58	[R]12,289	3.19
November	[R]5,579	3.10	1,782	[R]3.16	5,691	3.66	[R]13,051	3.35
December	7,318	2.58	3,650	[R]2.30	5,631	3.58	[R]16,600	2.86
Total	[R]56,447	2.52	[R]38,372	2.46	62,187	[R]3.83	[R]157,006	[R]3.02
1998								
January	5,056	2.53	4,257	2.11	7,446	3.67	16,759	2.93
February	4,474	2.14	3,119	2.06	3,726	3.42	11,319	2.54
March	7,818	2.25	4,204	2.14	7,435	3.66	19,457	2.76
April	[E]5,800	NA	[RE]2,466	NA	5,702	NA	[RE]13,968	NA
May	[E]5,800	NA	[RE]5,252	NA	1,891	NA	[RE]12,943	NA
June	[E]5,800	NA	[E]5,112	NA	5,695	NA	[E]16,608	NA
1998 YTD	[E]34,748	NA	[E]24,411	NA	31,895	NA	[E]91,054	NA
1997 YTD	30,913	2.47	13,194	2.32	30,135	4.07	74,242	3.09
1996 YTD	27,107	2.68	13,776	1.91	31,853	3.51	72,736	2.90

[R] = Revised Data.
[E] = Estimated Data.
[RE] = Revised Estimated Data.
NA = Not Available.

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

Table 7. Marketed Production of Natural Gas, by State, 1992-1998

(Million Cubic Feet)

Year and Month	Alabama[b]	Alaska	Arizona	California	Colorado	Florida	Kansas
1992 Total	355,099	443,597	771	365,632	323,041	6,657	658,007
1993 Total	388,024	430,350	597	315,851	400,985	7,085	686,347
1994 Total	515,272	555,402	752	309,427	453,207	7,486	712,730
1995 Total	519,661	469,550	558	279,555	523,084	6,463	721,436
1996							
January	45,653	44,655	41	20,714	48,619	518	62,976
February	42,668	40,433	42	22,910	45,504	493	62,683
March	45,334	43,738	45	24,686	47,843	460	63,027
April	43,868	39,694	36	23,988	45,293	456	60,858
May	45,160	36,348	39	24,091	46,893	483	62,194
June	43,319	37,334	45	23,281	45,212	503	56,318
July	43,257	37,272	30	24,495	45,570	500	57,095
August	43,873	37,239	43	24,547	51,269	540	55,144
September	42,834	38,039	31	23,826	45,437	537	55,563
October	42,200	41,204	34	24,261	50,245	468	57,589
November	45,395	40,706	37	24,493	49,824	517	58,460
December	47,278	44,166	40	25,203	50,363	531	60,890
Total	530,841	480,828	463	286,494	572,071	6,006	712,796
1997							
January	32,136	45,409	46	24,427	47,843	525	60,197
February	29,307	40,017	41	23,877	47,967	510	54,234
March	32,291	43,559	42	23,879	52,372	607	60,099
April	32,077	39,267	39	23,223	48,571	552	57,085
May	31,326	35,821	36	23,690	48,444	538	61,661
June	30,137	37,634	28	23,507	44,744	448	57,731
July	31,331	35,680	31	23,981	50,319	512	58,234
August	30,914	36,425	30	23,831	52,235	503	53,374
September	33,496	34,854	29	23,792	50,425	517	49,658
October	34,689	39,929	34	24,490	51,450	450	53,815
November	33,848	41,052	57	27,505	45,507	437	54,152
December	33,386	44,965	39	24,896	55,769	489	[R]53,834
Total	384,937	474,612	451	291,098	595,647	6,087	[R]674,075
1998							
January	32,739	43,715	43	24,810	53,025	479	[RE]53,542
February	29,230	38,016	42	21,719	51,770	436	[RE]50,752
March	33,505	41,026	53	22,869	[R]56,834	466	[RE]52,145
April	32,406	[E]36,111	43	21,952	55,760	480	[E]50,727
1998 YTD	127,880	[E]158,869	180	91,351	217,389	1,860	[E]207,165
1997 YTD	125,811	168,252	168	95,406	196,754	2,193	231,616
1996 YTD	177,525	168,521	164	92,297	187,258	1,927	249,543

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	[E]140,773	4,337	142,541
April	449,961	17,983	8,957	[E]4,703	[E]136,775	4,284	134,885
1998 YTD	1,803,689	105,400	36,952	[E]19,685	[E]562,244	17,263	557,599
1997 YTD	[E]1,821,432	91,878	32,486	17,947	498,511	16,445	562,018
1996 YTD	1,732,270	83,879	32,085	17,308	532,627	16,442	562,457

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	[RE]1,703,778
Total	1,173	6,431,484	257,139	[E]719,932	[E]795,764	[RE]19,895,156
1998						
January	90	542,462	21,826	66,074	[E]70,408	[RE]1,708,016
February	79	491,530	21,758	53,970	[E]65,555	[RE]1,569,822
March	96	541,311	[R]23,656	65,704	[E]70,223	[RE]1,709,401
April	92	525,602	[E]22,162	61,974	[E]65,681	[E]1,630,539
1998 YTD	357	2,100,905	[E]89,401	247,722	[E]271,867	[E]6,617,779
1997 YTD	406	2,161,575	82,378	221,947	[E]266,223	[E]6,593,448
1996 YTD	422	2,139,931	80,540	226,660	274,380	6,576,243

[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, April 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	35,025	732	35,757	1,126	2,097	128	32,406
Alaska	[E]14,354	[E]241,666	[E]256,020	[E]219,412	0	[E]497	[E]36,111
Arizona	40	3	43	0	0	0	43
California	6,488	24,644	31,131	8,962	146	71	21,952
Colorado	48,378	8,179	56,557	704	0	92	55,760
Florida	0	542	542	0	62	0	480
Kansas	[E]46,795	[E]4,069	[E]50,864	[E]86	0	[E]51	[E]50,727
Louisiana	395,963	59,525	455,487	3,572	0	1,954	449,961
Michigan	14,636	3,659	18,295	129	0	183	17,983
Mississippi	9,732	680	10,412	534	696	225	8,957
Montana	[E]4,176	[E]568	[E]4,744	[E]6	0	[E]35	[E]4,703
New Mexico	[E]129,106	[E]22,380	[E]151,486	[E]922	[E]13,543	[E]246	[E]136,775
North Dakota	1,507	3,158	4,665	0	3	378	4,284
Oklahoma	122,755	12,130	134,885	0	0	0	134,885
Oregon	108	0	108	3	13	0	92
Texas	466,031	112,766	578,796	37,456	13,303	2,435	525,602
Utah	[E]19,230	[E]3,738	[E]22,968	[E]47	0	[E]760	[E]22,162
Wyoming	95,161	5,392	100,553	12,183	13,189	13,206	61,974
Other States	[E]62,022	[E]4,508	[E]66,530	[E]194	0	[E]655	[E]65,681
Total	[E]1,471,507	[E]508,338	[E]1,979,845	[E]285,337	[E]43,051	[E]20,918	[E]1,630,539

[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)

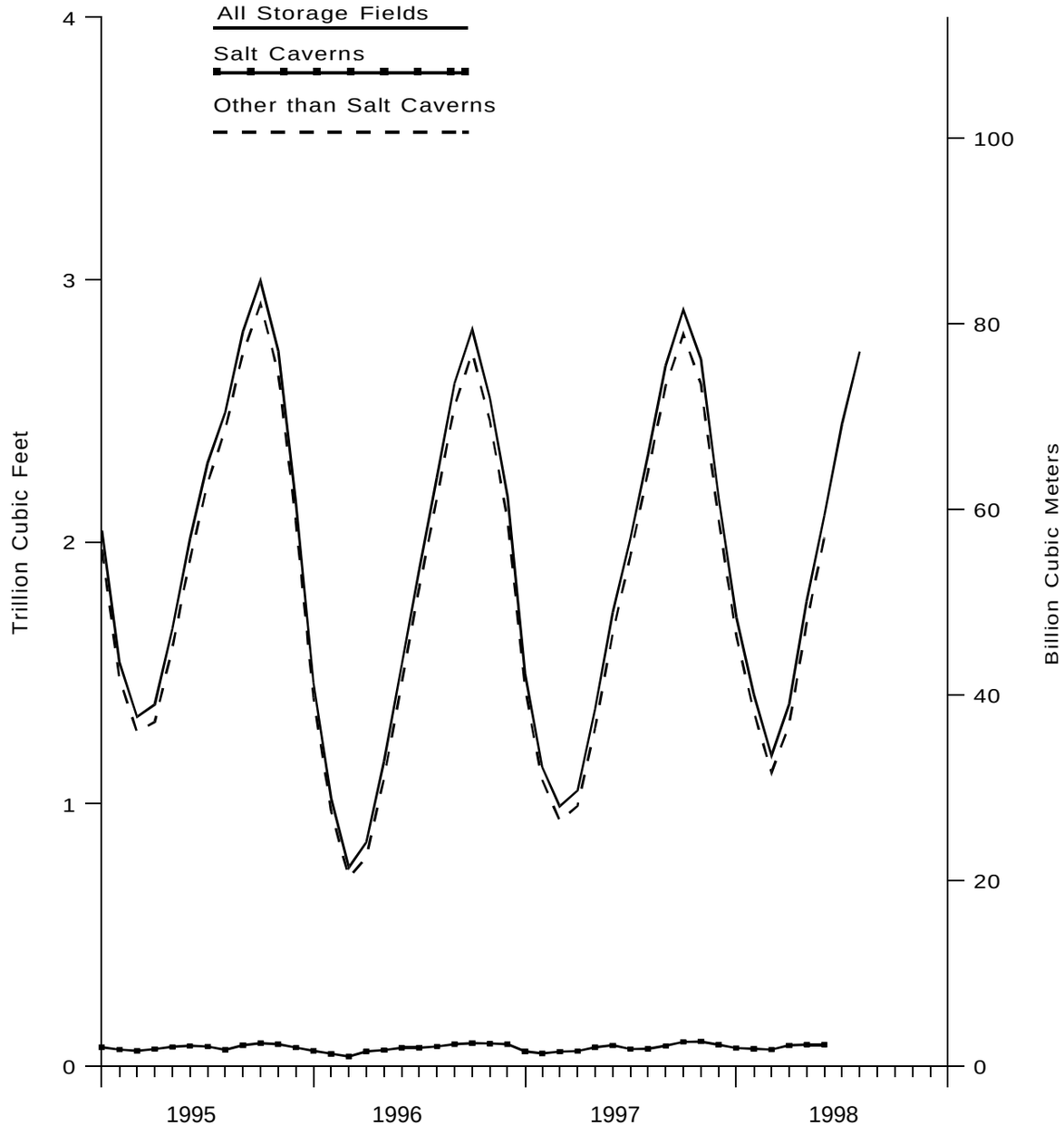
Year and Month	Natural Gas in Underground Storage at End of Period			Change In Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total[b]	Volume	Percent	Injections	Withdrawals	Net Withdrawals[c]
1992 Total[a]	4,044	2,597	6,641	-227	-8.0	2,555	2,724	168
1993 Total[a]	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(STIFS)	[RE]4,343	[RE]2,451	[RE]6,794	[RE]437	[RE]21.7	NA	NA	[RE]-350
August(STIFS)	[E]4,343	[E]2,726	[E]7,069	[E]389	[E]16.7	NA	NA	[E]-275

[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	--	--	--	--	--	375	2,698	2,323
1996 Refill Season								
April	4,312	854	5,166	-525	-38.1	227	112	-115
May	4,332	1,161	5,493	-507	-30.4	373	45	-328
June	4,341	1,529	5,870	-485	-24.1	410	35	-375
July	4,336	1,898	6,234	-404	-17.5	418	49	-370
August	4,332	2,245	6,577	-250	-10.0	400	54	-346
September	4,338	2,605	6,943	-197	-7.0	398	32	-366
October	4,335	2,810	7,145	-186	-6.2	276	73	-203
Total	--	--	--	--	--	2,502	401	-2,102
1996-97 Heating Season								
November	4,339	2,549	6,889	-179	-6.6	90	354	264
December	4,341	2,173	6,513	19	0.9	86	461	374
January	4,348	1,496	5,844	34	2.3	69	752	684
February	4,342	1,140	5,482	120	11.7	55	413	358
March	4,346	991	5,337	233	30.7	131	285	155
Total	--	--	--	--	--	431	2,266	1,835
1997 Refill Season								
April	4,342	1,051	5,393	197	23.1	205	146	-58
May	4,343	1,362	5,705	201	17.3	362	41	-321
June	4,357	1,730	6,087	201	13.2	405	41	-364
July	4,356	2,014	6,369	116	6.1	359	78	-281
August	4,357	2,336	6,693	92	4.1	378	56	-322
September	4,360	2,672	7,032	67	2.6	380	44	-336
October	4,358	2,886	7,244	75	2.7	295	84	-211
Total	--	--	--	--	--	2,384	491	-1,893
1997-98 Heating Season								
November	4,360	2,698	7,058	149	5.9	113	302	189
December	4,350	2,170	6,520	-2	-0.1	45	579	533
January	4,344	1,711	6,055	215	14.4	68	534	466
February	4,338	1,418	5,756	278	24.4	74	373	299
March	4,339	1,184	5,523	193	19.5	136	377	241
Total	--	--	--	--	--	436	2,166	1,730
1998 Refill Season								
April	4,336	1,381	5,718	330	31.4	277	78	-198
May	4,338	1,773	6,111	412	30.2	435	42	-393
June	4,343	2,101	6,444	371	21.4	375	52	-323
July(STIFS)	[RE]4,343	[RE]2,451	[RE]6,794	[RE]437	[RE]21.7	[NA]	[NA]	[RE]-350
August(STIFS)	[E]4,343	[E]2,726	[E]7,069	[E]389	[E]16.7	[NA]	[NA]	[E]-275

[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

— = 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

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

See footnotes at end of table.

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

(Volumes in Million Cubic Feet) — Continued

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

See footnotes at end of table.

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

(Volumes in Million Cubic Feet) — Continued

State	1997						1996
	June	May	April	March	February	January	Total
Alabama	-93	-271	-130	-25	184	531	-1,224
Arkansas	-1,340	-608	178	342	1,006	1,978	64
California	-23,191	-24,048	-19,220	-441	19,742	38,477	51,292
Colorado	-5,257	-5,328	5,569	2,069	4,862	5,523	-1,004
Illinois	-28,038	-23,880	-546	23,189	39,774	63,858	-15,109
Indiana	-1,914	-110	1,444	2,498	2,866	7,272	-1,801
Iowa	-8,361	-3,473	1,627	2,953	8,469	15,926	-1,229
Kansas	-12,195	-9,699	-1,605	4,096	9,102	13,633	12,118
Kentucky	-8,991	-7,821	-343	4,166	8,068	18,108	-7,530
Louisiana	-19,702	-19,500	-3,923	-18,817	21,080	48,276	10,964
Maryland	-1,657	-1,590	133	1,903	2,662	5,873	24
Michigan	-72,604	-46,126	-13,752	53,314	71,108	120,403	-31,671
Minnesota	-312	-273	-31	188	117	588	-30
Mississippi	-3,812	-5,552	442	-2,306	2,924	12,169	-12,758
Missouri	-112	-1,200	56	1,174	-252	1,126	-48
Montana	-1,633	-846	1,810	2,591	3,983	5,651	11,725
Nebraska	-797	-708	-43	-241	504	867	-1,489
New Mexico	-534	-1,228	583	501	1,527	591	5,338
New York	-10,571	-7,770	-1,700	9,210	10,116	17,636	-13,367
Ohio	-37,335	-34,081	-1,385	21,557	28,120	58,636	-10,844
Oklahoma	-8,028	-18,258	-7,130	-8,092	7,912	27,616	22,961
Oregon	-1,602	-1,239	543	920	1,078	1,341	783
Pennsylvania	-49,619	-44,272	-3,306	50,263	52,298	94,228	-59,533
Texas	-20,500	-27,751	-17,395	-21,183	24,869	55,056	63,869
Utah	-7,950	-4,255	-2,150	-2,620	2,520	8,931	12,955
Washington	-3,766	-5,880	-66	3,217	1,798	1,587	2,067
West Virginia	-31,691	-23,964	1,715	23,312	28,900	53,643	-35,844
Wyoming	-2,290	-1,119	127	1,082	2,976	4,361	5,056
AGA Regions							
Producing	-66,111	-82,596	-28,850	-45,460	68,420	159,319	102,555
Eastern Consuming	-251,783	-195,265	-16,231	193,275	252,817	458,106	-179,663
Western Consuming	-46,001	-42,987	-13,416	7,006	37,076	66,459	82,844
Total	-363,895	-320,849	-58,498	154,821	358,313	683,884	5,735

See footnotes at end of table.

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

(Volumes in Million Cubic Feet) — Continued

State	1996						
	December	November	October	September	August	July	June
Alabama	761	129	-117	-440	-395	-205	-670
Arkansas	644	562	-603	-1,153	-615	-744	-1,166
California	14,985	-2,885	-6,393	-6,822	15,439	7,028	-9,697
Colorado	2,923	92	-87	-3,828	-3,722	-5,347	-5,035
Illinois	35,109	15,523	-28,103	-36,529	-35,172	-35,480	-32,122
Indiana	3,290	-853	-2,715	-3,911	-6,115	-4,278	-2,398
Iowa	18,020	5,502	-10,555	-12,536	-13,166	-12,393	-7,677
Kansas	12,290	12,828	-6,005	-8,532	-8,265	-7,537	-12,192
Kentucky	8,039	4,853	-2,826	-8,590	-10,071	-13,358	-14,231
Louisiana	32,273	29,327	-15,704	-33,463	-32,218	-29,380	-16,986
Maryland	958	1,424	-1,553	-1,677	-1,845	-1,887	-2,621
Michigan	83,640	61,160	-49,100	-81,220	-82,649	-80,355	-78,794
Minnesota	218	30	-35	-202	-213	-287	-294
Mississippi	4,658	5,707	-3,369	-7,330	-7,868	-8,061	-6,662
Missouri	76	306	-210	-204	-206	-240	-261
Montana	5,512	4,760	336	-3,519	-3,501	-3,261	-3,577
Nebraska	1,108	479	600	-785	-1,346	-1,193	-1,924
New Mexico	-823	607	482	-1,873	363	811	48
New York	8,151	6,347	-2,750	-7,327	-12,585	-12,964	-12,079
Ohio	35,138	25,728	-13,648	-23,807	-29,581	-36,092	-37,165
Oklahoma	20,970	17,468	-10,345	-18,814	-14,973	-8,211	-10,949
Oregon	1,240	552	170	-121	-509	-1,318	-1,365
Pennsylvania	25,003	33,464	-15,621	-37,711	-52,038	-69,480	-62,061
Texas	24,153	12,557	-22,072	-34,225	-18,108	-2,670	-13,902
Utah	9,164	4,651	1,416	-2,204	-3,884	-6,821	-6,742
Washington	1,746	462	1,648	-597	-1,965	-935	-3,317
West Virginia	21,644	19,884	-15,242	-28,009	-19,913	-32,686	-29,535
Wyoming	3,529	2,903	-272	-613	-771	-2,160	-1,760
AGA Regions							
Producing	94,165	79,056	-57,617	-105,390	-81,685	-55,791	-61,809
Eastern Consuming	240,936	173,946	-141,841	-242,746	-265,082	-300,612	-281,537
Western Consuming	39,316	10,566	-3,217	-17,907	874	-13,101	-31,788
Total	374,417	263,567	-202,675	-366,042	-345,894	-369,504	-375,133

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, June 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	1,350	2,540	427	46.2	623	0
Arkansas	31,871	11,013	5,348	16,361	1,319	32.8	1,129	28
California	396,430	247,308	138,726	386,034	-9,781	-6.6	28,464	971
Colorado	99,600	48,140	22,789	70,929	-19	-0.1	4,659	752
Illinois	898,565	649,967	146,257	796,225	18,706	14.7	32,473	1,124
Indiana	113,210	73,777	18,886	92,664	-9	0.0	1,441	866
Iowa	271,200	200,700	22,820	223,520	2,954	14.9	8,715	310
Kansas	304,066	191,160	67,704	258,864	10,954	19.3	11,047	4,780
Kentucky	219,908	109,119	77,800	186,919	6,489	9.1	8,155	18
Louisiana	559,013	265,685	172,339	438,024	44,651	35.0	23,945	9,310
Maryland	62,000	46,677	8,651	55,328	3,047	54.4	1,378	126
Michigan	992,934	420,900	427,913	848,813	104,831	32.4	71,918	2,328
Minnesota	7,000	4,623	1,320	5,943	-473	-26.4	169	0
Mississippi	134,012	77,474	37,104	114,578	-4,174	-10.1	6,107	3,220
Missouri	31,274	21,600	8,825	30,425	624	7.6	0	143
Montana	342,785	167,371	40,451	207,822	-6,012	-12.9	2,677	653
Nebraska	39,469	31,507	2,331	33,838	-36	-1.5	813	285
New Mexico	96,600	29,766	7,345	37,111	2,687	57.7	1,058	878
New York	175,479	103,042	51,928	154,970	13,220	34.2	9,807	1,021
Ohio	573,434	350,885	108,289	459,173	21,137	24.3	26,625	743
Oklahoma	396,087	233,761	107,316	341,078	33,502	45.4	17,405	4,945
Oregon	11,623	4,896	4,588	9,484	662	16.9	1,411	0
Pennsylvania	684,842	354,853	264,010	618,863	65,877	33.2	38,192	3,956
Texas	683,891	255,173	213,357	468,530	49,750	30.4	35,137	14,991
Utah	121,980	63,106	23,781	86,888	787	3.4	8,313	88
Washington	37,300	22,096	8,596	30,692	-4,323	-33.5	3,082	119
West Virginia	734,158	296,487	97,007	393,494	13,573	16.3	26,747	343
Wyoming	105,869	60,729	14,393	75,122	353	2.5	3,462	56
AGA Regions								
Producing	2,205,540	1,064,032	610,514	1,674,547	138,691	29.4	95,827	38,152
Eastern Consuming	4,799,753	2,660,706	1,236,065	3,896,771	250,839	25.5	226,887	11,265
Western Consuming	1,122,586	618,270	254,644	872,914	-18,805	-6.9	52,239	2,639
Total	8,127,879	4,343,007	2,101,223	6,444,231	370,724	21.4	374,952	52,057

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		
				May	April	March
Alabama	33,336	29,532	39,436	2,335	4,610	7,480
Alaska	7,657	7,754	8,779	933	1,239	1,529
Arizona	23,816	19,136	16,513	2,092	3,694	5,323
Arkansas	21,501	26,598	30,681	1,158	2,270	6,069
California	312,708	258,146	243,735	38,118	54,072	62,006
Colorado	NA	NA	68,189	7,546	NA	NA
Connecticut	22,415	24,678	28,252	1,878	3,638	5,051
Delaware	5,311	5,924	6,756	450	846	1,248
District of Columbia	8,636	9,672	11,281	636	1,195	2,032
Florida	9,413	7,472	10,111	1,017	1,631	2,044
Georgia	66,083	58,630	75,708	3,558	8,015	16,312
Hawaii	252	229	247	47	49	49
Idaho	9,703	9,417	9,017	904	1,560	2,032
Illinois	234,063	298,080	319,565	14,790	33,014	54,697
Indiana	NA	104,457	112,980	5,270	NA	23,358
Iowa	43,083	49,887	52,969	2,807	5,821	10,634
Kansas	48,127	46,660	51,195	3,803	7,378	11,857
Kentucky	33,195	38,036	42,930	1,961	3,937	8,164
Louisiana	30,495	30,849	37,377	2,310	3,736	7,184
Maine	NA	582	570	NA	92	120
Maryland	41,925	45,893	53,421	2,992	5,696	9,577
Massachusetts	NA	68,582	73,578	NA	10,697	14,514
Michigan	198,633	240,930	254,764	13,888	31,736	47,397
Minnesota	63,948	80,874	86,810	3,836	7,148	16,337
Mississippi	NA	16,422	20,443	NA	NA	NA
Missouri	74,523	81,851	89,389	4,980	10,435	17,763
Montana	NA	12,541	12,892	NA	1,676	2,429
Nebraska	27,311	31,285	31,079	1,961	4,324	6,482
Nevada	17,695	14,904	13,059	1,884	2,826	3,809
New Hampshire	4,070	4,319	4,462	378	697	845
New Jersey	115,790	131,819	142,084	11,735	17,514	26,429
New Mexico	20,820	20,215	18,004	1,270	2,589	4,740
New York	NA	252,139	253,463	NA	R30,102	R42,752
North Carolina	35,309	32,941	40,168	2,243	5,018	7,535
North Dakota	6,378	7,780	7,854	490	953	1,464
Ohio	175,060	216,473	234,271	11,550	24,861	44,211
Oklahoma	45,205	45,693	50,531	3,094	5,854	10,832
Oregon	NA	20,641	19,797	2,135	NA	NA
Pennsylvania	NA	161,394	177,214	9,880	NA	32,526
Rhode Island	NA	11,407	12,242	NA	NA	2,402
South Carolina	18,107	15,688	20,236	1,071	2,421	4,006
South Dakota	7,238	8,483	8,599	512	1,127	1,738
Tennessee	NA	NA	47,525	2,674	5,170	9,938
Texas	114,420	122,991	139,029	8,183	13,832	25,051
Utah	30,167	30,883	29,337	2,243	4,853	6,482
Vermont	1,547	1,689	1,674	118	266	340
Virginia	39,913	44,878	48,573	2,509	5,172	9,618
Washington	NA	38,572	36,688	NA	NA	NA
West Virginia	NA	21,584	24,584	NA	2,785	4,553
Wisconsin	68,114	81,434	89,077	4,080	9,198	17,130
Wyoming	NA	7,581	7,953	704	1,182	1,566
Total	2,733,781	3,006,626	3,215,088	218,566	R405,491	R635,067

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			
	February	January	Total	December	November	October
Alabama	9,222	9,689	48,328	7,914	3,963	1,435
Alaska	1,716	2,240	15,284	2,162	1,684	1,569
Arizona	5,604	7,103	31,162	4,780	1,980	1,057
Arkansas	6,668	5,336	42,472	6,375	4,018	1,346
California	76,210	82,302	486,233	69,510	40,537	24,905
Colorado	NA	NA	NA	NA	NA	R4,146
Connecticut	5,585	6,263	39,929	5,901	3,625	1,492
Delaware	1,360	1,408	8,920	1,206	667	250
District of Columbia	2,365	2,409	15,698	2,312	1,414	553
Florida	2,251	2,470	14,538	2,038	1,192	755
Georgia	18,031	20,167	114,282	19,723	16,465	6,777
Hawaii	52	55	518	45	42	39
Idaho	2,232	2,975	15,245	2,372	1,429	639
Illinois	53,146	78,417	497,370	69,685	56,316	29,486
Indiana	20,668	26,868	170,494	26,161	17,458	8,129
Iowa	10,261	13,560	81,357	12,039	8,592	4,027
Kansas	11,594	13,494	75,968	11,319	8,812	2,419
Kentucky	8,515	10,618	65,852	11,153	8,075	3,072
Louisiana	7,953	9,311	52,364	8,007	4,321	2,085
Maine	R124	153	1,009	142	107	66
Maryland	11,052	12,609	77,109	10,927	8,296	3,543
Massachusetts	15,644	16,948	110,969	15,274	10,140	4,780
Michigan	48,977	56,636	379,431	49,980	37,898	17,835
Minnesota	15,023	21,603	132,392	17,705	15,376	6,811
Mississippi	4,564	NA	NA	4,327	2,545	896
Missouri	18,966	22,378	128,012	19,007	12,077	3,667
Montana	2,404	3,418	20,995	3,197	2,030	1,230
Nebraska	6,642	7,902	47,115	5,790	4,401	1,382
Nevada	4,149	5,025	25,154	3,867	1,917	1,019
New Hampshire	1,010	1,140	6,949	933	616	327
New Jersey	29,313	30,800	212,726	30,622	19,893	8,843
New Mexico	4,337	7,884	36,380	8,162	4,067	1,209
New York	R46,717	NA	R399,707	50,610	35,378	16,616
North Carolina	9,710	10,803	52,993	9,219	4,884	1,441
North Dakota	1,561	1,910	11,900	1,471	1,178	474
Ohio	43,910	50,527	R359,712	51,089	37,009	19,335
Oklahoma	11,652	13,774	71,745	11,053	6,181	1,966
Oregon	4,581	6,117	33,308	4,834	2,809	1,498
Pennsylvania	34,714	31,526	262,841	37,823	26,338	12,987
Rhode Island	2,720	2,781	18,162	2,509	1,464	659
South Carolina	5,177	5,432	25,475	4,634	2,399	631
South Dakota	1,666	2,196	13,225	1,734	1,329	569
Tennessee	9,546	NA	NA	11,064	6,385	1,905
Texas	30,500	36,854	211,229	33,619	19,418	8,261
Utah	8,193	8,396	58,099	10,374	6,017	4,299
Vermont	397	427	2,631	345	214	118
Virginia	11,067	11,546	73,716	11,657	7,430	3,007
Washington	NA	NA	NA	NA	NA	NA
West Virginia	4,906	5,039	36,349	6,079	4,103	1,755
Wisconsin	15,618	22,087	136,335	19,157	16,222	8,154
Wyoming	1,560	NA	12,163	1,489	1,175	646
Total	R680,533	794,124	R5,014,136	732,116	499,331	R234,624

See footnotes at end of table.

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

(Million Cubic Feet) — Continued

State	1997					
	September	August	July	June	May	April
Alabama	1,250	1,238	1,392	1,604	2,638	3,180
Alaska	743	402	463	508	789	1,177
Arizona	1,127	910	1,019	1,154	1,571	2,259
Arkansas	949	918	1,028	1,240	2,324	3,293
California	21,772	20,951	26,840	23,572	28,707	39,271
Colorado	R2,623	R2,503	R2,865	R3,991	R8,207	R10,629
Connecticut	1,001	903	949	1,380	2,332	4,378
Delaware	183	178	194	318	557	942
District of Columbia	393	372	419	562	944	1,316
Florida	699	742	785	856	944	1,013
Georgia	3,190	2,944	3,195	3,357	3,834	8,221
Hawaii	40	41	43	41	42	41
Idaho	315	294	346	433	939	1,464
Illinois	11,697	10,111	10,378	11,617	26,081	41,192
Indiana	3,491	2,989	2,852	4,958	9,482	15,219
Iowa	1,645	1,472	1,593	2,102	3,938	6,971
Kansas	1,629	1,616	1,862	1,652	3,581	6,402
Kentucky	1,448	1,077	1,419	1,572	2,954	4,883
Louisiana	1,697	1,671	1,685	2,050	2,824	3,680
Maine	30	26	21	34	56	85
Maryland	2,067	1,800	1,906	2,677	4,215	6,913
Massachusetts	2,555	2,437	2,831	4,370	6,917	12,122
Michigan	8,767	7,264	4,748	12,010	26,958	38,256
Minnesota	2,864	2,556	2,706	3,499	6,775	11,435
Mississippi	NA	NA	NA	920	1,463	1,904
Missouri	2,625	2,403	2,717	3,665	6,474	11,030
Montana	508	447	411	631	1,143	1,996
Nebraska	936	937	1,015	1,367	3,177	4,355
Nevada	802	777	887	981	1,419	2,018
New Hampshire	175	155	160	263	465	744
New Jersey	5,309	4,680	5,102	6,457	11,258	18,139
New Mexico	830	843	815	238	1,952	1,503
New York	9,976	R9,236	10,440	15,312	27,004	41,729
North Carolina	935	900	1,074	1,599	2,991	4,087
North Dakota	229	206	228	333	730	1,178
Ohio	7,228	6,202	7,533	R14,843	21,575	33,023
Oklahoma	1,548	1,519	1,679	2,105	3,857	6,160
Oregon	826	756	878	1,065	1,920	3,206
Pennsylvania	6,315	5,249	5,153	7,583	15,446	25,130
Rhode Island	473	443	480	727	1,171	1,994
South Carolina	466	444	512	701	1,230	1,776
South Dakota	261	233	248	368	784	1,250
Tennessee	1,187	1,080	1,119	NA	3,019	4,797
Texas	6,416	6,101	6,829	7,595	10,420	14,025
Utah	1,957	1,466	1,501	1,601	1,821	4,875
Vermont	59	52	57	97	189	283
Virginia	1,640	1,473	1,576	2,054	4,227	6,662
Washington	NA	NA	NA	NA	5,591	4,586
West Virginia	784	594	488	961	2,246	3,421
Wisconsin	2,974	2,550	2,878	2,965	7,456	11,112
Wyoming	330	252	294	395	1,076	1,058
Total	R130,203	R117,325	R128,887	R165,024	R287,712	R436,386

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		
	March	February	January	Total	December	November
Alabama	5,326	9,098	9,290	56,522	6,664	3,461
Alaska	1,767	1,618	2,402	16,179	2,181	1,708
Arizona	4,235	5,092	5,978	27,709	4,051	2,322
Arkansas	4,942	7,754	8,285	46,289	6,286	3,768
California	48,377	66,688	75,103	473,310	62,905	43,702
Colorado	R15,239	NA	NA	110,924	15,814	9,571
Connecticut	5,176	6,538	6,255	43,764	5,842	3,522
Delaware	1,265	1,612	1,549	9,791	1,236	648
District of Columbia	2,049	2,655	2,708	17,290	2,406	1,252
Florida	1,279	2,068	2,167	16,293	1,583	972
Georgia	9,001	16,024	21,550	127,062	18,574	14,651
Hawaii	46	49	51	540	44	41
Idaho	1,909	2,542	2,564	14,941	2,224	1,570
Illinois	61,416	69,338	100,053	538,749	80,922	63,715
Indiana	20,684	26,294	32,779	179,939	26,087	18,577
Iowa	9,528	11,881	17,568	88,078	14,138	9,782
Kansas	8,769	12,105	15,803	85,376	14,388	9,447
Kentucky	7,293	8,964	13,942	70,232	10,177	9,022
Louisiana	5,619	8,991	9,736	56,626	6,173	3,511
Maine	142	133	166	967	120	105
Maryland	8,998	12,080	13,687	85,533	11,426	7,828
Massachusetts	15,127	17,654	16,762	114,365	13,947	9,943
Michigan	51,299	57,545	66,871	399,522	52,724	38,862
Minnesota	16,959	19,966	25,740	142,319	22,152	14,959
Mississippi	3,038	4,968	5,050	30,157	3,676	1,880
Missouri	15,422	23,426	25,499	137,225	20,539	11,687
Montana	2,468	3,038	3,897	22,175	3,286	2,458
Nebraska	6,232	7,829	9,692	48,989	7,283	4,043
Nevada	3,172	3,825	4,470	22,607	3,386	2,069
New Hampshire	913	1,136	1,061	7,012	855	667
New Jersey	31,984	34,709	35,729	222,619	29,983	18,933
New Mexico	3,810	5,630	7,320	33,689	5,663	3,689
New York	52,648	63,646	67,111	403,264	NA	NA
North Carolina	5,811	10,002	10,050	58,812	8,607	4,461
North Dakota	1,576	1,984	2,313	12,591	1,894	1,256
Ohio	44,153	52,497	65,225	374,824	52,480	38,565
Oklahoma	9,070	12,687	13,920	76,629	11,298	5,722
Oregon	4,350	5,308	5,857	33,236	5,200	3,164
Pennsylvania	33,537	41,287	45,992	278,606	36,688	27,037
Rhode Island	2,462	2,891	2,890	18,839	2,350	1,416
South Carolina	2,592	4,994	5,097	29,406	4,336	2,168
South Dakota	1,625	2,089	2,735	14,085	2,243	1,414
Tennessee	NA	12,086	12,795	70,423	10,177	5,949
Texas	22,686	33,154	42,706	229,318	33,952	17,793
Utah	5,945	8,366	9,876	54,344	8,203	5,749
Vermont	383	416	419	2,523	302	208
Virginia	9,123	11,741	13,126	76,214	10,946	7,388
Washington	8,132	9,377	10,885	62,689	9,804	6,207
West Virginia	4,318	5,630	5,969	37,390	5,166	3,391
Wisconsin	17,378	19,323	26,165	147,893	21,285	16,724
Wyoming	1,544	1,660	2,243	13,534	1,744	1,334
Total	R608,818	766,614	907,096	5,241,414	737,722	502,981

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 May	1998 April	1998 March
Alabama	18,542	15,113	17,742	3,768	R2,713	3,522
Alaska	11,069	12,707	13,192	1,684	1,911	2,251
Arizona	16,719	15,241	14,319	2,495	3,013	3,548
Arkansas	15,707	16,827	19,038	1,280	1,728	3,843
California	124,245	115,620	102,182	22,410	23,269	19,321
Colorado	NA	NA	40,933	4,768	NA	NA
Connecticut	22,714	22,576	22,119	2,124	4,294	4,999
Delaware	3,539	3,978	4,221	320	556	829
District of Columbia	9,871	9,049	8,797	1,085	1,830	2,032
Florida	18,910	17,213	20,424	3,112	3,701	3,961
Georgia	32,112	28,738	34,615	3,248	4,882	7,391
Hawaii	890	896	938	169	174	172
Idaho	6,735	6,673	6,581	689	1,077	1,423
Illinois	97,832	118,090	124,764	6,961	15,326	22,556
Indiana	NA	56,561	52,971	3,258	NA	11,063
Iowa	26,655	29,303	32,181	1,566	3,605	7,584
Kansas	27,043	28,134	31,070	2,093	3,381	8,014
Kentucky	19,352	21,586	23,993	1,505	2,490	4,636
Louisiana	18,242	12,943	14,867	1,629	2,048	5,056
Maine	NA	1,541	1,496	NA	255	332
Maryland	25,424	26,178	26,076	2,532	3,668	6,091
Massachusetts	52,789	54,642	52,317	5,789	8,771	11,570
Michigan	96,733	119,102	122,764	8,530	15,784	22,837
Minnesota	47,010	54,499	56,722	3,208	5,685	11,726
Mississippi	NA	11,163	12,671	NA	NA	NA
Missouri	38,113	42,708	44,243	2,978	5,545	8,978
Montana	NA	8,213	8,426	NA	1,029	1,527
Nebraska	17,643	20,489	19,579	1,690	2,786	4,027
Nevada	12,379	11,345	10,309	1,876	2,207	2,642
New Hampshire	4,217	4,317	4,327	420	710	869
New Jersey	80,719	81,112	87,788	10,233	11,748	19,826
New Mexico	14,769	14,651	13,646	1,525	2,281	3,211
New York	NA	173,819	NA	NA	20,716	NA
North Carolina	22,543	21,089	23,915	2,053	3,326	4,879
North Dakota	6,019	6,983	7,147	507	953	1,372
Ohio	92,824	109,692	116,167	7,134	13,211	21,443
Oklahoma	27,484	26,136	27,961	2,291	4,018	6,347
Oregon	NA	14,650	14,183	1,618	NA	NA
Pennsylvania	NA	83,337	90,827	6,114	NA	17,790
Rhode Island	NA	7,214	7,496	NA	NA	1,492
South Carolina	11,118	9,123	11,145	1,209	1,732	2,440
South Dakota	5,592	6,432	6,670	539	806	1,335
Tennessee	NA	NA	34,512	2,993	4,714	7,027
Texas	93,665	93,139	91,856	13,616	14,839	20,104
Utah	16,825	16,832	16,117	1,510	2,749	3,787
Vermont	1,701	1,806	1,716	116	281	381
Virginia	33,960	34,047	32,707	3,672	5,338	7,878
Washington	NA	27,573	26,180	NA	NA	NA
West Virginia	16,750	14,287	15,702	1,709	2,235	3,146
Wisconsin	43,985	51,714	55,222	3,801	6,632	11,019
Wyoming	NA	7,208	5,046	545	783	1,128
Total	1,633,273	1,757,759	1,776,927	174,673	R253,681	368,098

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			
	February	January	Total	December	November	October
Alabama	4,010	4,529	34,239	3,740	2,540	2,107
Alaska	2,340	2,883	26,795	3,134	2,647	2,564
Arizona	3,534	4,129	30,178	3,386	2,273	1,754
Arkansas	4,075	4,781	29,518	3,996	2,726	1,352
California	28,787	30,457	254,440	26,174	21,235	19,673
Colorado	NA	NA	NA	R9,405	NA	R2,443
Connecticut	5,540	5,757	R42,370	5,776	R3,838	2,502
Delaware	899	935	6,547	864	520	282
District of Columbia	2,382	2,542	17,034	2,293	1,354	899
Florida	3,984	4,152	37,644	3,833	3,203	2,687
Georgia	8,120	8,471	57,474	7,991	6,146	3,654
Hawaii	179	196	2,174	185	251	171
Idaho	1,570	1,977	11,435	1,657	982	585
Illinois	22,455	30,533	205,941	27,467	23,244	12,431
Indiana	10,460	12,876	98,622	13,318	9,608	5,146
Iowa	5,962	7,938	50,218	7,166	5,681	3,031
Kansas	6,177	7,378	52,331	6,777	4,780	2,508
Kentucky	5,053	5,668	39,046	6,217	4,223	2,429
Louisiana	4,998	4,511	24,451	2,987	1,988	1,330
Maine	342	422	2,713	375	289	176
Maryland	6,474	6,659	53,255	6,365	8,614	2,917
Massachusetts	12,943	13,716	105,883	11,544	8,664	7,063
Michigan	23,664	25,919	197,276	26,512	19,536	10,084
Minnesota	11,133	15,257	93,655	12,420	10,831	5,320
Mississippi	3,310	NA	NA	2,928	2,026	1,157
Missouri	9,467	11,144	70,044	9,543	6,200	2,736
Montana	1,459	2,178	13,932	2,005	1,299	793
Nebraska	4,237	4,903	42,107	4,247	3,487	2,351
Nevada	2,575	3,078	21,822	2,567	1,797	1,270
New Hampshire	1,051	1,167	7,408	1,010	703	411
New Jersey	18,713	20,200	147,228	20,186	13,739	7,215
New Mexico	3,243	4,509	26,151	3,956	2,423	1,160
New York	NA	NA	346,939	36,071	27,233	21,384
North Carolina	5,791	6,495	38,942	5,608	3,490	2,057
North Dakota	1,434	1,753	11,392	1,374	1,163	588
Ohio	23,991	27,046	184,883	25,219	17,840	9,823
Oklahoma	6,859	7,969	43,776	5,673	3,390	2,126
Oregon	3,308	3,889	25,380	3,341	2,016	1,363
Pennsylvania	19,674	21,571	147,290	20,160	14,246	9,659
Rhode Island	1,620	1,786	12,303	1,413	1,212	637
South Carolina	2,781	2,955	19,874	2,671	1,771	1,176
South Dakota	1,292	1,621	10,426	1,312	1,022	549
Tennessee	6,063	NA	NA	8,120	5,216	2,846
Texas	20,826	24,280	206,455	23,104	18,448	14,187
Utah	4,235	4,544	31,130	5,152	3,187	2,020
Vermont	436	487	3,051	403	282	184
Virginia	8,398	8,673	61,430	8,549	5,455	3,489
Washington	NA	NA	NA	NA	NA	NA
West Virginia	6,096	3,564	26,927	3,447	2,904	1,576
Wisconsin	9,845	12,688	92,418	12,954	10,586	5,664
Wyoming	1,288	NA	12,291	1,092	1,065	633
Total	391,709	445,113	R3,285,974	R414,006	R317,756	R193,542

See footnotes at end of table.

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

(Million Cubic Feet) — Continued

State	1997					
	September	August	July	June	May	April
Alabama	2,375	3,087	3,497	1,779	2,020	2,194
Alaska	1,588	1,336	1,398	1,422	1,806	2,215
Arizona	1,839	1,770	1,939	1,976	2,141	2,563
Arkansas	1,133	1,132	1,133	1,219	1,653	2,172
California	18,468	18,728	17,971	16,572	18,994	21,091
Colorado	R2,281	R2,005	R2,244	R2,860	NA	NA
Connecticut	1,560	1,754	R2,136	R2,227	2,586	4,055
Delaware	233	183	206	281	420	628
District of Columbia	852	853	783	951	1,373	842
Florida	2,561	2,651	2,578	2,917	2,902	3,017
Georgia	2,811	2,626	2,709	2,800	3,216	4,152
Hawaii	166	160	175	170	166	174
Idaho	411	356	373	399	686	1,041
Illinois	6,546	5,935	6,084	6,145	10,664	16,797
Indiana	2,667	2,551	2,428	6,344	9,965	7,610
Iowa	1,358	1,110	1,306	1,262	2,376	3,976
Kansas	2,087	2,685	3,283	2,078	2,798	4,004
Kentucky	1,268	967	1,176	1,181	1,890	2,913
Louisiana	1,250	1,195	1,350	1,408	1,492	1,837
Maine	91	78	72	92	152	231
Maryland	2,271	2,226	2,378	2,305	2,735	4,420
Massachusetts	5,488	5,776	5,555	7,151	6,266	9,068
Michigan	6,211	5,889	2,278	7,664	13,205	19,207
Minnesota	2,563	2,522	2,496	3,004	5,155	8,361
Mississippi	NA	NA	NA	1,176	1,237	1,533
Missouri	2,196	2,054	2,151	2,457	3,569	5,786
Montana	423	383	363	451	714	1,342
Nebraska	1,868	2,896	5,042	1,728	2,430	3,190
Nevada	1,192	1,145	1,097	1,409	1,666	1,896
New Hampshire	249	217	216	286	472	739
New Jersey	6,062	5,793	6,094	7,027	9,816	13,645
New Mexico	1,020	997	984	960	1,766	1,862
New York	18,287	22,102	23,940	24,103	25,257	31,231
North Carolina	1,751	1,629	1,548	1,770	2,401	2,973
North Dakota	344	291	305	343	619	1,095
Ohio	5,006	4,408	4,153	8,743	11,339	15,190
Oklahoma	1,659	1,626	1,649	1,517	2,617	3,571
Oregon	1,023	912	1,007	1,067	1,574	2,304
Pennsylvania	5,298	4,356	4,680	5,554	10,354	13,007
Rhode Island	460	399	431	537	892	1,144
South Carolina	1,904	1,019	997	1,214	1,278	1,222
South Dakota	334	250	246	283	604	940
Tennessee	2,120	2,064	2,090	NA	3,242	4,276
Texas	15,035	15,234	15,315	11,993	12,860	13,790
Utah	1,124	943	927	946	1,268	2,675
Vermont	108	80	80	108	160	296
Virginia	2,392	2,449	2,370	2,681	4,381	5,762
Washington	NA	NA	NA	NA	4,098	4,100
West Virginia	1,195	1,292	1,044	1,181	1,693	2,222
Wisconsin	2,901	2,961	2,769	2,868	5,507	7,225
Wyoming	372	345	943	633	1,065	1,445
Total	R146,067	R146,788	R149,400	R160,656	212,588	273,153

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		
	March	February	January	Total	December	November
Alabama	2,613	4,063	4,224	29,002	3,123	1,991
Alaska	2,848	2,518	3,320	27,315	3,236	2,743
Arizona	3,153	3,525	3,858	29,102	3,259	2,461
Arkansas	3,149	4,730	5,123	31,009	3,876	2,462
California	23,612	26,107	25,816	236,332	24,836	21,313
Colorado	NA	NA	NA	68,931	9,028	5,807
Connecticut	4,797	5,346	5,792	39,818	4,902	3,112
Delaware	858	1,046	1,025	6,695	821	502
District of Columbia	2,183	2,316	2,335	16,353	2,325	1,195
Florida	3,307	3,862	4,126	41,898	3,830	3,179
Georgia	4,864	7,924	8,582	61,377	7,462	5,450
Hawaii	180	188	188	2,132	176	160
Idaho	1,345	1,784	1,816	11,540	1,621	1,107
Illinois	23,444	30,059	37,125	218,086	32,425	25,216
Indiana	10,465	12,807	15,715	87,568	12,378	9,122
Iowa	5,758	7,056	10,137	54,576	8,510	5,896
Kansas	6,012	8,130	7,190	57,231	9,187	4,867
Kentucky	4,093	5,483	7,206	40,980	5,892	4,439
Louisiana	2,463	3,574	3,575	25,769	2,435	1,680
Maine	378	348	433	2,566	310	280
Maryland	5,563	6,380	7,080	45,891	5,433	4,693
Massachusetts	11,630	13,854	13,824	96,192	11,752	9,718
Michigan	25,654	28,433	32,603	201,431	26,123	19,486
Minnesota	12,000	13,403	15,580	98,580	15,009	10,756
Mississippi	2,106	3,062	3,226	22,230	2,333	1,631
Missouri	7,970	12,828	12,556	72,833	10,204	6,136
Montana	1,652	1,947	2,558	14,836	2,123	1,659
Nebraska	4,117	4,845	5,907	40,833	5,032	3,678
Nevada	2,442	2,629	2,711	20,469	2,417	1,817
New Hampshire	954	1,079	1,073	7,099	896	698
New Jersey	21,543	14,211	21,897	150,432	18,834	12,586
New Mexico	2,935	3,938	4,151	26,544	3,553	2,450
New York	36,768	41,464	39,099	253,129	NA	NA
North Carolina	3,806	5,850	6,059	40,467	5,160	3,240
North Dakota	1,408	1,879	1,982	12,165	1,726	1,286
Ohio	23,205	28,174	31,783	190,195	26,298	18,274
Oklahoma	5,041	7,183	7,724	46,284	6,014	3,273
Oregon	3,076	3,686	4,011	25,622	3,595	2,314
Pennsylvania	17,888	19,583	22,506	154,677	22,333	15,107
Rhode Island	1,740	1,744	1,694	12,301	1,290	972
South Carolina	1,816	2,409	2,397	20,329	2,447	1,644
South Dakota	1,235	1,607	2,045	11,602	1,813	1,237
Tennessee	NA	9,488	9,084	58,513	7,599	5,116
Texas	19,967	21,284	25,238	178,573	18,053	12,865
Utah	3,363	4,473	5,051	29,666	4,220	3,185
Vermont	429	444	477	2,825	348	276
Virginia	7,212	8,021	8,670	59,294	7,489	5,776
Washington	5,627	6,275	7,474	48,252	6,623	4,489
West Virginia	2,816	3,652	3,903	28,030	3,400	2,494
Wisconsin	10,989	12,071	15,922	93,868	13,368	11,029
Wyoming	1,593	1,423	1,681	9,735	1,748	1,301
Total	366,359	427,944	477,715	3,161,176	409,165	294,522

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		
				May	April	March
Alabama	87,453	86,225	84,859	17,308	17,013	18,208
Alaska	31,793	32,593	29,617	5,854	6,455	6,878
Arizona	11,766	11,132	10,972	2,313	2,281	2,413
Arkansas	63,420	62,210	59,488	11,839	12,765	13,363
California	300,297	287,275	284,704	66,080	55,492	47,185
Colorado	31,586	NA	36,315	5,649	R6,278	R6,323
Connecticut	15,061	15,819	13,046	2,546	2,782	3,183
Delaware	7,128	6,345	5,819	1,256	1,348	1,477
District of Columbia	0	0	0	0	0	0
Florida	60,317	56,592	58,716	11,765	11,608	12,960
Georgia	65,945	81,151	75,333	12,501	12,866	13,434
Hawaii	0	0	0	0	0	0
Idaho [a]	15,596	15,021	15,310	2,593	3,047	3,130
Illinois	140,352	145,973	151,398	22,462	26,752	29,211
Indiana	NA	125,031	112,721	23,136	NA	27,772
Iowa	129,644	47,919	49,702	86,355	10,660	11,792
Kansas	42,690	50,564	46,782	8,483	8,011	8,686
Kentucky	40,839	43,328	41,235	7,022	7,543	8,884
Louisiana	392,933	406,538	430,235	75,577	77,970	81,959
Maine	NA	996	853	NA	122	159
Maryland	44,106	23,730	20,380	4,047	4,407	11,276
Massachusetts	NA	49,295	40,740	NA	8,209	8,759
Michigan	149,297	153,942	161,849	25,012	26,873	32,052
Minnesota	43,704	46,287	42,410	6,901	8,548	9,039
Mississippi	NA	33,083	35,203	NA	NA	NA
Missouri	30,498	33,795	34,517	4,830	5,473	6,788
Montana	NA	7,785	7,604	NA	1,521	1,481
Nebraska	14,631	15,802	15,994	2,662	2,543	3,043
Nevada	10,654	11,524	13,394	2,455	2,453	2,174
New Hampshire	NA	2,576	1,979	NA	457	468
New Jersey	85,964	86,677	84,400	15,723	16,455	17,152
New Mexico	9,704	10,730	9,830	2,027	2,049	1,822
New York	NA	143,544	136,015	NA	22,542	26,423
North Carolina	50,807	49,707	41,124	9,439	9,366	10,846
North Dakota	4,646	5,638	3,439	773	898	1,017
Ohio	155,287	153,060	158,855	25,977	29,362	32,257
Oklahoma	78,386	89,585	83,947	13,793	14,388	16,578
Oregon	NA	34,615	32,113	7,015	NA	NA
Pennsylvania	102,594	108,962	109,732	18,161	19,808	21,699
Rhode Island	NA	11,279	7,333	NA	2,078	2,117
South Carolina	44,766	43,740	37,344	8,713	8,159	9,121
South Dakota	2,515	3,528	3,436	697	279	474
Tennessee	NA	NA	51,485	11,710	12,020	14,188
Texas	785,763	861,270	909,567	154,540	153,724	159,503
Utah	21,236	18,673	18,040	3,668	4,480	4,273
Vermont	949	1,029	809	164	164	194
Virginia	34,809	33,951	37,712	6,375	7,746	6,497
Washington	NA	44,244	46,340	NA	NA	NA
West Virginia	NA	21,968	20,679	NA	4,099	4,553
Wisconsin	65,620	73,476	70,925	9,508	11,658	14,819
Wyoming	NA	20,636	20,987	4,293	R3,344	NA
Total	3,715,408	3,763,289	3,765,287	744,024	R693,905	R748,773

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			
	February	January	Total	December	November	October
Alabama	16,441	18,483	206,129	18,755	17,910	17,161
Alaska	6,152	6,454	73,863	6,876	5,571	6,313
Arizona	2,226	2,533	27,889	2,688	2,360	2,335
Arkansas	12,114	13,339	147,046	13,202	12,751	12,471
California	67,501	64,039	731,180	63,859	61,447	60,283
Colorado	R6,388	R6,949	NA	NA	NA	R5,148
Connecticut	3,149	3,402	R34,461	3,422	R2,838	2,588
Delaware	1,443	1,604	14,841	1,580	1,327	1,202
District of Columbia	0	0	0	0	0	0
Florida	11,053	12,931	132,636	11,487	10,945	10,925
Georgia	13,335	13,808	170,988	12,800	12,468	12,817
Hawaii	0	0	0	0	0	0
Idaho [a]	3,482	3,344	35,089	3,159	3,109	3,226
Illinois	28,719	33,208	316,352	30,515	27,702	24,750
Indiana	25,847	28,857	282,466	28,684	26,650	23,332
Iowa	9,516	11,321	111,430	10,686	10,199	9,886
Kansas	7,811	9,699	115,454	10,909	8,587	8,210
Kentucky	7,550	9,839	97,555	9,442	8,835	8,625
Louisiana	74,500	82,928	983,217	81,573	80,707	84,368
Maine	164	202	2,525	216	296	243
Maryland	10,677	13,699	61,353	13,713	263	4,308
Massachusetts	8,443	9,923	110,880	9,185	8,316	8,095
Michigan	31,380	33,980	326,414	31,551	27,735	24,470
Minnesota	10,044	9,171	107,280	10,111	10,179	9,139
Mississippi	6,814	NA	NA	7,043	7,238	6,572
Missouri	6,360	7,047	69,623	6,701	6,057	5,106
Montana	1,449	1,884	18,122	2,064	1,850	1,612
Nebraska	2,902	3,481	32,514	3,723	1,923	2,697
Nevada	1,979	1,593	27,795	2,213	2,214	2,421
New Hampshire	498	481	R5,732	468	442	499
New Jersey	17,655	18,980	202,654	17,569	15,519	16,683
New Mexico	1,823	1,984	24,853	2,146	2,019	1,881
New York	NA	NA	325,392	27,393	27,674	21,794
North Carolina	10,404	10,752	116,320	10,426	9,608	9,568
North Dakota	948	1,010	11,151	929	869	812
Ohio	31,779	35,912	343,764	32,492	30,107	26,986
Oklahoma	17,131	16,497	205,823	16,600	15,704	15,473
Oregon	8,744	9,760	90,658	9,760	8,798	8,284
Pennsylvania	20,811	22,115	235,913	20,983	21,509	17,230
Rhode Island	2,011	2,173	24,470	2,179	2,148	1,509
South Carolina	9,129	9,645	103,578	9,344	8,702	8,239
South Dakota	500	565	6,961	606	618	425
Tennessee	12,628	NA	NA	12,466	8,602	11,242
Texas	148,544	169,452	NA	174,230	162,492	165,162
Utah	4,080	4,735	44,290	4,504	4,129	4,228
Vermont	205	223	2,337	235	226	224
Virginia	7,444	6,747	83,965	7,773	6,522	5,914
Washington	NA	NA	NA	NA	NA	NA
West Virginia	1,696	4,510	51,114	4,610	4,353	4,150
Wisconsin	13,298	16,337	152,545	14,848	14,202	11,931
Wyoming	NA	R5,156	R47,095	4,102	4,328	3,966
Total	R730,160	R798,548	R8,753,273	789,667	R723,347	R704,330

See footnotes at end of table.

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

(Million Cubic Feet) — Continued

State	1997					
	September	August	July	June	May	April
Alabama	16,150	16,827	16,848	16,253	17,284	18,182
Alaska	4,233	6,395	5,968	5,915	5,619	6,443
Arizona	2,582	2,375	2,246	2,170	2,332	2,089
Arkansas	11,035	11,994	11,785	11,598	11,903	12,008
California	65,816	67,815	65,810	58,874	58,119	57,480
Colorado	R4,680	R6,402	R4,907	R6,030	R6,225	R5,708
Connecticut	2,362	2,550	2,440	2,441	2,870	3,308
Delaware	1,107	1,017	1,106	1,156	1,308	1,354
District of Columbia	0	0	0	0	0	0
Florida	10,734	10,355	11,071	10,526	11,522	11,739
Georgia	12,855	13,575	12,874	12,448	16,828	16,740
Hawaii	0	0	0	0	0	0
Idaho [a]	2,756	2,371	2,723	2,724	2,673	3,180
Illinois	22,004	20,706	22,431	22,272	25,139	26,550
Indiana	21,152	20,475	19,853	17,289	19,839	23,608
Iowa	8,468	8,680	7,768	7,823	8,516	9,081
Kansas	7,655	8,324	12,351	8,854	9,443	9,903
Kentucky	7,052	7,079	6,526	6,669	7,704	7,769
Louisiana	82,780	83,946	80,979	82,324	83,780	82,622
Maine	208	191	178	197	226	247
Maryland	4,427	5,019	4,767	5,126	4,734	4,495
Massachusetts	7,625	8,946	8,930	10,487	8,389	10,392
Michigan	23,655	23,705	16,029	25,327	27,343	27,854
Minnesota	7,244	8,412	8,176	7,733	7,622	8,544
Mississippi	NA	NA	NA	6,054	5,804	6,535
Missouri	4,322	4,338	4,492	4,810	4,987	7,149
Montana	1,290	1,253	1,093	1,176	1,365	1,178
Nebraska	2,050	2,627	1,207	2,484	2,580	3,404
Nevada	2,426	2,430	2,294	2,272	2,528	2,117
New Hampshire	—	451	422	434	R553	632
New Jersey	16,219	17,715	16,450	15,822	16,773	16,587
New Mexico	1,982	1,957	2,097	2,041	2,123	1,935
New York	26,738	24,589	27,876	25,785	25,745	27,455
North Carolina	9,017	9,696	9,102	9,195	9,687	10,561
North Dakota	754	817	625	707	911	867
Ohio	24,750	24,078	22,725	29,566	26,644	27,049
Oklahoma	16,687	17,620	16,618	17,536	17,339	17,335
Oregon	8,041	8,313	7,289	5,557	6,033	6,408
Pennsylvania	16,783	17,206	16,881	16,359	18,780	21,556
Rhode Island	1,440	1,491	2,159	2,265	2,401	2,514
South Carolina	8,883	8,277	7,943	8,451	9,122	9,260
South Dakota	470	499	322	492	531	624
Tennessee	13,313	13,153	10,831	NA	11,767	12,548
Texas	NA	172,857	166,725	165,999	166,759	164,032
Utah	2,497	3,369	3,482	3,408	3,633	3,757
Vermont	176	157	144	146	218	200
Virginia	6,951	8,927	8,064	5,864	7,452	6,449
Washington	NA	NA	NA	NA	8,513	8,189
West Virginia	4,032	4,106	3,991	3,905	4,439	6,731
Wisconsin	10,069	9,521	9,041	9,458	11,310	13,597
Wyoming	R3,299	3,672	3,234	3,858	4,125	3,864
Total	R687,142	R712,947	R685,242	R687,309	R711,540	R731,827

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		
	March	February	January	Total	December	November
Alabama	16,885	16,341	17,534	201,414	17,016	16,951
Alaska	6,993	6,448	7,090	75,616	7,034	6,450
Arizona	2,351	2,132	2,228	26,979	2,536	2,436
Arkansas	12,361	12,195	13,744	141,300	12,552	12,171
California	57,065	55,756	58,855	693,539	61,618	59,107
Colorado	NA	NA	R6,691	83,640	7,861	7,271
Connecticut	3,521	3,031	3,088	32,451	3,013	3,386
Delaware	1,249	1,192	1,243	14,164	1,148	1,180
District of Columbia	0	0	0	0	0	0
Florida	11,318	10,645	11,369	136,722	11,160	11,655
Georgia	16,153	16,385	15,044	181,768	15,926	15,856
Hawaii	0	0	0	0	0	0
Idaho [a]	3,200	2,802	3,166	34,577	2,891	2,747
Illinois	29,761	31,673	32,850	322,275	35,802	30,672
Indiana	26,703	25,597	29,284	289,219	25,886	24,549
Iowa	9,800	9,785	10,738	113,995	10,955	11,178
Kansas	9,911	9,183	12,123	110,294	9,372	9,897
Kentucky	8,408	8,964	10,483	94,481	9,646	8,705
Louisiana	78,729	78,331	83,077	1,048,432	86,865	89,171
Maine	182	162	180	2,190	171	234
Maryland	5,528	4,661	4,312	50,022	4,956	3,981
Massachusetts	10,520	10,375	9,619	100,015	9,252	8,643
Michigan	32,629	32,134	33,982	347,043	32,754	29,990
Minnesota	10,448	10,202	9,471	102,471	9,903	10,656
Mississippi	6,721	6,686	7,337	80,887	6,503	6,507
Missouri	5,099	9,463	7,097	71,533	6,510	6,157
Montana	1,695	1,634	1,913	18,103	1,985	1,668
Nebraska	3,426	3,257	3,135	36,125	3,689	3,179
Nevada	2,373	2,144	2,362	32,606	2,859	2,705
New Hampshire	570	411	411	4,916	404	529
New Jersey	18,406	15,694	19,217	200,933	27,230	17,727
New Mexico	1,944	2,119	2,608	22,858	2,173	1,875
New York	30,706	31,100	28,538	322,661	31,374	26,765
North Carolina	10,341	9,950	9,168	104,124	9,413	9,964
North Dakota	1,574	1,253	1,033	7,911	924	955
Ohio	30,688	32,631	36,048	347,149	33,111	30,242
Oklahoma	17,207	18,790	18,914	201,024	19,194	15,941
Oregon	6,846	6,722	8,606	87,754	8,498	8,526
Pennsylvania	22,001	23,241	23,384	243,499	21,089	22,617
Rhode Island	2,241	1,993	2,131	25,829	2,553	2,992
South Carolina	9,152	8,054	8,152	95,493	8,646	8,699
South Dakota	705	792	877	7,182	715	694
Tennessee	NA	12,789	11,698	126,545	12,264	12,388
Texas	182,742	160,683	187,054	2,138,155	181,384	171,353
Utah	3,777	3,698	3,809	42,213	3,693	3,663
Vermont	234	197	181	1,953	191	211
Virginia	4,162	8,056	7,833	84,357	9,782	7,474
Washington	9,259	9,170	9,112	114,236	9,758	10,859
West Virginia	2,577	3,836	4,386	49,997	4,443	4,418
Wisconsin	15,650	14,948	17,970	149,517	15,456	14,652
Wyoming	3,795	3,792	5,060	50,253	4,647	4,741
Total	767,957	747,761	R804,203	8,870,422	806,805	764,387

[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		
				May	April	March
Alabama	4,042	1,317	1,302	2,844	296	383
Alaska	12,219	15,077	13,201	2,411	2,266	2,382
Arizona	4,284	4,728	4,100	674	1,127	718
Arkansas	9,843	2,264	9,876	5,479	2,283	1,521
California	100,207	118,468	90,263	13,745	18,055	23,374
Colorado	2,490	1,637	1,644	656	586	416
Connecticut	2,811	4,830	974	1,386	157	23
Delaware	2,253	8,997	7,818	900	548	475
District of Columbia	0	0	0	0	0	0
Florida	95,426	114,446	99,098	26,827	15,860	18,020
Georgia	1,187	469	1,188	746	98	183
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	23,473	13,141	7,237	7,068	4,835	4,022
Indiana	2,009	986	1,698	1,187	205	426
Iowa	1,706	1,373	1,336	697	298	245
Kansas	5,727	3,608	5,384	3,207	594	935
Kentucky	1,630	459	736	1,017	107	282
Louisiana	91,123	88,936	84,168	31,812	18,082	16,198
Maine	0	0	0	0	0	0
Maryland	2,090	2,772	1,503	932	373	371
Massachusetts	9,371	20,092	8,423	2,666	1,579	1,565
Michigan	17,307	11,681	11,919	4,212	3,602	3,758
Minnesota	1,500	2,688	1,395	804	268	204
Mississippi	22,905	16,571	23,235	8,717	4,400	3,921
Missouri	1,539	483	1,377	952	210	161
Montana	144	132	115	89	15	39
Nebraska	927	468	865	634	176	59
Nevada	15,911	15,383	15,082	3,761	3,549	2,446
New Hampshire	26	1	1	0	0	0
New Jersey	8,088	7,206	6,575	3,926	1,380	1,835
New Mexico	15,208	11,808	10,192	4,948	3,448	3,092
New York	65,398	60,612	31,337	18,926	9,076	10,397
North Carolina	1,141	97	427	1,026	12	91
North Dakota	0	0	0	0	0	0
Ohio	1,700	481	807	1,005	178	307
Oklahoma	42,896	31,485	42,662	13,893	7,944	9,394
Oregon	6,349	427	0	176	2,266	1,335
Pennsylvania	1,768	1,542	1,457	621	260	406
Rhode Island	9,651	10,587	9,302	1,943	1,606	1,889
South Carolina	874	166	216	687	37	106
South Dakota	510	255	22	366	33	42
Tennessee	432	0	44	432	0	0
Texas	384,306	307,752	392,334	117,366	83,043	80,475
Utah	725	743	562	138	135	156
Vermont	132	12	3	12	6	3
Virginia	5,384	3,536	2,785	2,158	699	1,197
Washington	784	99	150	14	152	121
West Virginia	130	100	87	30	22	29
Wisconsin	4,556	8,715	1,985	2,282	395	1,108
Wyoming	223	34	29	6	8	3
Total	982,403	896,667	894,913	293,378	190,266	194,113

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			
	February	January	Total	December	November	October
Alabama	157	362	9,996	87	296	846
Alaska	2,307	2,852	33,511	3,023	2,676	2,689
Arizona	804	962	23,384	752	400	1,544
Arkansas	272	289	24,802	294	375	2,295
California	18,278	26,755	377,967	27,218	22,372	35,085
Colorado	451	381	5,537	451	385	642
Connecticut	109	1,136	16,762	569	1,485	1,873
Delaware	74	256	16,090	700	682	356
District of Columbia	0	0	0	0	0	0
Florida	15,637	19,082	296,940	21,716	14,283	21,226
Georgia	57	102	7,341	49	124	308
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	3,535	4,014	44,606	5,019	3,906	3,796
Indiana	104	87	5,141	152	234	312
Iowa	202	264	4,123	207	251	457
Kansas	446	545	25,822	1,993	2,480	2,646
Kentucky	138	86	2,194	158	190	201
Louisiana	9,860	15,171	277,431	16,810	14,557	22,089
Maine	0	0	0	0	0	0
Maryland	223	191	11,004	209	364	750
Massachusetts	1,320	2,241	51,486	2,419	3,186	3,140
Michigan	2,496	3,239	33,288	3,028	3,135	3,243
Minnesota	105	119	6,097	112	139	382
Mississippi	2,775	3,092	73,081	4,576	4,062	5,433
Missouri	80	135	7,464	311	340	557
Montana	0	1	420	21	30	40
Nebraska	21	37	2,656	34	77	354
Nevada	3,128	3,027	51,776	3,651	1,804	4,368
New Hampshire	26	0	564	31	24	54
New Jersey	419	528	29,528	553	1,341	2,087
New Mexico	1,802	1,918	33,376	1,999	2,225	3,227
New York	10,274	16,724	217,493	14,715	12,693	16,569
North Carolina	1	11	4,511	3	25	507
North Dakota	0	0	1	0	0	0
Ohio	96	114	3,485	122	246	397
Oklahoma	5,205	6,460	128,822	11,407	8,236	10,068
Oregon	1,102	1,471	10,686	1,641	920	2,368
Pennsylvania	257	225	7,368	365	212	301
Rhode Island	1,599	2,613	27,162	2,604	2,490	2,505
South Carolina	11	33	2,731	35	112	240
South Dakota	6	63	1,730	83	90	45
Tennessee	0	0	1,635	0	0	209
Texas	49,071	54,351	1,056,582	69,623	72,461	90,971
Utah	144	153	4,079	178	174	135
Vermont	47	65	36	4	2	4
Virginia	476	853	11,571	918	381	789
Washington	5	492	2,619	187	220	164
West Virginia	29	21	219	11	2	17
Wisconsin	353	418	15,772	467	400	743
Wyoming	200	7	95	15	15	6
Total	133,700	170,946	2,968,985	198,522	180,102	246,040

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					
	September	August	July	June	May	April
Alabama	1,247	2,373	2,898	930	482	386
Alaska	2,296	2,439	2,734	2,579	2,902	2,923
Arizona	5,106	4,809	4,114	1,931	2,740	723
Arkansas	3,377	5,270	7,484	3,443	575	606
California	56,405	48,127	43,831	26,461	37,116	25,337
Colorado	667	716	703	337	393	264
Connecticut	1,769	2,362	2,474	1,400	1,169	1,260
Delaware	667	1,592	2,000	1,096	1,063	1,841
District of Columbia	0	0	0	0	0	0
Florida	26,875	33,664	33,336	31,395	29,651	28,108
Georgia	1,160	2,200	2,592	440	203	177
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	2,374	3,806	7,977	4,586	2,897	4,921
Indiana	268	530	1,863	796	232	221
Iowa	234	371	838	393	270	254
Kansas	2,113	3,491	6,349	3,142	1,237	847
Kentucky	181	312	525	170	21	117
Louisiana	30,559	34,584	39,937	29,959	25,574	19,124
Maine	0	0	0	0	0	0
Maryland	623	1,051	3,379	1,856	725	1,478
Massachusetts	4,800	5,595	6,031	6,223	3,821	6,630
Michigan	2,921	2,851	3,675	2,753	2,748	2,263
Minnesota	289	669	1,134	684	594	619
Mississippi	8,119	11,937	14,001	8,382	4,685	3,033
Missouri	749	1,212	2,789	1,022	95	173
Montana	27	46	115	8	7	15
Nebraska	263	364	878	218	108	172
Nevada	6,212	7,833	7,257	5,269	5,215	3,517
New Hampshire	54	70	11	319	0	0
New Jersey	1,349	4,239	8,143	4,610	1,478	1,868
New Mexico	2,835	4,338	4,022	2,922	2,443	2,547
New York	19,701	29,767	35,237	28,198	16,938	11,475
North Carolina	433	747	1,887	811	61	26
North Dakota	0	0	1	0	0	0
Ohio	268	304	1,073	596	106	107
Oklahoma	14,026	20,504	20,851	12,246	6,710	7,023
Oregon	2,367	2,531	306	126	3	0
Pennsylvania	418	923	2,722	886	294	326
Rhode Island	2,365	2,424	2,003	2,184	2,445	1,854
South Carolina	212	422	921	621	67	72
South Dakota	88	228	581	360	85	85
Tennessee	0	328	843	255	0	0
Texas	126,102	141,943	144,449	103,279	73,212	59,300
Utah	912	1,087	824	25	147	143
Vermont	2	4	4	3	3	3
Virginia	583	1,476	2,536	1,350	670	1,497
Washington	1,191	731	25	1	86	5
West Virginia	15	9	23	40	33	9
Wisconsin	697	895	2,168	1,686	1,851	1,768
Wyoming	5	3	4	13	6	6
Total	332,925	391,176	427,549	296,004	231,162	193,124

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		
	March	February	January	Total	December	November
Alabama	168	156	125	6,146	291	480
Alaska	3,593	2,438	3,221	31,767	3,078	2,683
Arizona	588	358	319	19,248	443	296
Arkansas	250	214	619	33,988	1,226	297
California	24,348	14,189	17,478	318,035	17,182	22,900
Colorado	326	259	395	5,511	454	319
Connecticut	967	1,238	197	10,456	131	912
Delaware	2,279	2,068	1,746	23,370	1,048	2,129
District of Columbia	0	0	0	0	0	0
Florida	28,965	17,145	10,578	283,557	13,124	17,908
Georgia	30	18	42	4,674	43	80
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	2,474	1,661	1,188	25,863	550	1,859
Indiana	220	151	162	4,330	236	256
Iowa	383	218	247	3,491	236	232
Kansas	558	413	553	22,607	672	578
Kentucky	130	80	111	1,836	82	104
Louisiana	15,862	13,616	14,761	252,139	12,921	14,958
Maine	0	0	0	0	0	0
Maryland	336	47	185	8,455	211	263
Massachusetts	5,273	2,793	1,575	45,037	1,562	3,081
Michigan	2,413	2,356	1,901	32,559	2,888	3,151
Minnesota	695	123	656	5,301	419	403
Mississippi	2,930	2,716	3,207	83,251	3,671	6,561
Missouri	77	52	85	5,223	69	238
Montana	18	27	64	470	72	85
Nebraska	81	77	31	2,351	82	94
Nevada	3,820	1,362	1,468	46,766	2,311	2,458
New Hampshire	0	0	0	3	0	1
New Jersey	2,091	1,023	746	25,825	445	1,038
New Mexico	2,768	1,990	2,059	29,969	2,244	2,423
New York	14,741	12,486	4,972	142,688	5,108	10,715
North Carolina	1	9	0	2,381	1	1
North Dakota	0	0	0	3	0	0
Ohio	71	71	125	2,867	106	259
Oklahoma	6,677	4,843	6,231	136,436	6,107	8,068
Oregon	171	0	253	14,015	334	1,289
Pennsylvania	324	316	281	7,239	282	654
Rhode Island	2,179	2,021	2,088	25,071	2,167	2,449
South Carolina	12	4	11	1,206	20	16
South Dakota	39	19	26	725	35	80
Tennessee	0	0	0	572	0	1
Texas	60,371	54,877	59,992	1,039,155	51,332	59,062
Utah	155	137	161	3,428	142	130
Vermont	3	2	2	24	3	3
Virginia	1,133	47	190	10,275	333	193
Washington	0	2	6	6,590	21	358
West Virginia	23	23	12	205	43	3
Wisconsin	2,154	1,773	1,169	7,303	702	803
Wyoming	6	7	9	87	6	6
Total	189,704	143,428	139,250	2,732,496	132,434	169,879

[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		
				May	April	March
Alabama	143,372	132,188	143,339	26,256	R24,632	29,592
Alaska	62,738	68,130	64,788	10,881	11,872	13,040
Arizona	56,584	50,236	45,903	7,574	10,115	12,001
Arkansas	110,471	107,900	119,083	19,755	19,046	24,796
California	837,456	779,509	720,884	140,353	150,888	151,886
Colorado	141,818	NA	147,081	18,619	R24,655	R29,769
Connecticut	63,001	67,904	64,392	7,933	10,871	13,255
Delaware	18,231	25,243	24,613	2,925	3,298	4,030
District of Columbia	18,507	18,721	20,078	1,720	3,025	4,064
Florida	184,066	195,723	188,350	42,720	32,801	36,986
Georgia	165,327	168,988	186,844	20,054	25,861	37,321
Hawaii	1,143	1,124	1,184	216	223	221
Idaho	32,035	31,110	30,908	4,186	5,684	6,585
Illinois	495,720	575,284	602,964	51,280	79,927	110,485
Indiana	NA	287,036	280,370	32,851	NA	62,620
Iowa	201,089	128,481	136,189	91,425	20,383	30,256
Kansas	123,586	128,965	134,431	17,585	19,364	29,491
Kentucky	95,016	103,408	108,894	11,505	14,076	21,967
Louisiana	532,792	539,266	566,647	111,328	101,836	110,398
Maine	NA	3,120	2,919	NA	470	610
Maryland	113,546	98,574	101,381	10,503	14,145	27,315
Massachusetts	NA	192,611	175,058	NA	29,256	36,408
Michigan	461,971	525,655	551,296	51,642	77,995	106,043
Minnesota	156,161	184,348	187,337	14,749	21,649	37,306
Mississippi	NA	77,239	91,551	NA	NA	NA
Missouri	144,673	158,837	169,526	13,741	21,664	33,690
Montana	NA	28,671	29,036	NA	4,240	5,477
Nebraska	60,511	68,044	67,517	6,946	9,830	13,612
Nevada	56,638	53,156	51,844	9,976	11,035	11,071
New Hampshire	NA	11,213	10,769	NA	1,864	2,183
New Jersey	290,561	306,814	320,848	41,616	47,096	65,242
New Mexico	60,501	57,404	51,672	9,770	10,367	12,865
New York	NA	630,114	NA	NA	R82,436	R107,969
North Carolina	109,801	103,834	105,634	14,761	17,721	23,352
North Dakota	17,043	20,402	18,440	1,770	2,804	3,853
Ohio	424,871	479,706	510,100	45,665	67,612	98,218
Oklahoma	193,971	192,899	205,100	33,071	32,204	43,151
Oregon	NA	70,334	66,093	10,944	NA	NA
Pennsylvania	NA	355,235	379,230	34,776	NA	72,421
Rhode Island	NA	40,488	36,373	NA	NA	7,900
South Carolina	74,865	68,716	68,942	11,680	12,349	15,673
South Dakota	15,856	18,697	18,726	2,114	2,244	3,588
Tennessee	NA	NA	133,566	17,809	21,904	31,153
Texas	1,378,154	1,385,152	1,532,787	293,705	265,438	285,133
Utah	68,952	67,132	64,055	7,559	12,218	14,697
Vermont	4,329	4,537	4,202	409	716	918
Virginia	114,066	116,412	121,777	14,715	18,956	25,191
Washington	NA	110,488	109,359	NA	NA	NA
West Virginia	NA	57,940	61,052	NA	9,140	12,281
Wisconsin	182,275	215,340	217,208	19,671	27,884	44,076
Wyoming	NA	35,459	34,016	5,547	R5,317	NA
Total	9,064,866	9,424,341	9,652,216	1,430,640	R1,543,343	R1,946,051

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			
	February	January	Total	December	November	October
Alabama	29,830	33,062	298,692	30,497	24,708	21,550
Alaska	12,516	14,428	149,454	15,194	12,577	13,135
Arizona	12,168	14,726	112,612	11,607	7,012	6,690
Arkansas	23,129	23,745	243,839	23,868	19,870	17,463
California	190,777	203,553	1,849,819	186,761	145,591	139,946
Colorado	R32,868	R35,907	NA	R33,483	NA	R12,378
Connecticut	14,383	16,558	R133,522	15,668	R11,787	8,456
Delaware	3,776	4,203	46,397	4,350	3,196	2,090
District of Columbia	4,747	4,951	32,732	4,605	2,768	1,452
Florida	32,925	38,634	481,758	39,073	29,623	35,594
Georgia	39,542	42,548	350,085	40,563	35,202	23,556
Hawaii	232	252	2,692	230	293	209
Idaho	7,284	8,295	61,769	7,188	5,520	4,450
Illinois	107,855	146,173	1,064,270	132,686	111,168	70,463
Indiana	57,078	68,688	556,723	68,314	53,950	36,918
Iowa	25,941	33,082	247,128	30,098	24,723	17,401
Kansas	26,029	31,116	269,575	30,998	24,659	15,783
Kentucky	21,257	26,211	204,648	26,970	21,324	14,326
Louisiana	97,310	111,920	1,337,463	109,377	101,574	109,871
Maine	R629	777	6,247	733	692	486
Maryland	28,426	33,158	202,721	31,215	17,537	11,517
Massachusetts	38,350	42,828	379,218	38,422	30,307	23,079
Michigan	106,517	119,774	936,410	111,072	88,305	55,632
Minnesota	36,306	46,151	339,424	40,348	36,525	21,652
Mississippi	17,463	NA	NA	18,874	15,871	14,057
Missouri	34,874	40,704	275,142	35,563	24,674	12,066
Montana	5,313	7,480	53,469	7,288	5,208	3,676
Nebraska	13,802	16,322	124,391	13,794	9,888	6,785
Nevada	11,832	12,723	126,547	12,298	7,731	9,078
New Hampshire	2,585	2,788	R20,653	2,442	1,785	1,291
New Jersey	66,099	70,507	592,136	68,929	50,492	34,828
New Mexico	11,205	16,294	120,759	16,263	10,735	7,477
New York	R115,160	NA	R1,289,532	128,789	102,978	76,363
North Carolina	25,906	28,061	212,766	25,256	18,008	13,573
North Dakota	3,944	4,673	34,445	3,774	3,211	1,875
Ohio	99,776	113,599	R891,844	108,921	85,201	56,541
Oklahoma	40,846	44,699	450,167	44,734	33,511	29,633
Oregon	17,736	21,237	160,032	19,576	14,544	13,513
Pennsylvania	75,456	75,437	653,412	79,331	62,304	40,177
Rhode Island	7,949	9,352	82,097	8,705	7,313	5,310
South Carolina	17,097	18,065	151,658	16,684	12,984	10,286
South Dakota	3,464	4,445	32,342	3,736	3,059	1,587
Tennessee	28,238	NA	NA	31,651	20,204	16,202
Texas	248,941	284,937	NA	300,576	272,820	278,581
Utah	16,652	17,827	137,598	20,208	13,507	10,682
Vermont	1,085	1,202	8,055	988	724	529
Virginia	27,386	27,819	230,682	28,898	19,787	13,199
Washington	NA	NA	NA	NA	NA	NA
West Virginia	12,727	13,133	114,609	14,147	11,362	7,498
Wisconsin	39,114	51,531	397,071	47,427	41,410	26,493
Wyoming	NA	R8,805	R71,643	6,697	6,583	5,250
Total	R1,936,101	R2,208,730	R20,022,368	R2,134,311	R1,720,536	R1,378,536

See footnotes at end of table.

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

(Million Cubic Feet) — Continued

State	1997					
	September	August	July	June	May	April
Alabama	21,022	23,525	24,635	20,567	22,424	23,941
Alaska	8,860	10,572	10,563	10,423	11,115	12,759
Arizona	10,654	9,864	9,318	7,231	8,784	7,634
Arkansas	16,495	19,314	21,430	17,499	16,456	18,079
California	162,462	155,621	154,451	125,478	142,936	143,180
Colorado	R10,250	R11,625	R10,720	R13,218	R19,870	R22,723
Connecticut	6,691	7,568	R7,999	R7,448	8,957	13,002
Delaware	2,190	2,970	3,505	2,852	3,347	4,765
District of Columbia	1,245	1,226	1,202	1,513	2,317	2,158
Florida	40,869	47,412	47,771	45,693	45,019	43,877
Georgia	20,016	21,344	21,371	19,045	24,082	29,290
Hawaii	206	201	218	211	207	215
Idaho	3,482	3,021	3,441	3,556	4,298	5,685
Illinois	42,621	40,557	46,870	44,620	64,781	89,460
Indiana	27,578	26,544	26,996	29,386	39,518	46,657
Iowa	11,705	11,634	11,505	11,581	15,100	20,283
Kansas	13,484	16,116	23,844	15,726	17,059	21,157
Kentucky	9,949	9,434	9,646	9,592	12,569	15,682
Louisiana	116,287	121,396	123,951	115,741	113,669	107,263
Maine	329	294	271	323	434	562
Maryland	9,389	10,095	12,430	11,965	12,410	17,306
Massachusetts	20,467	22,754	23,347	28,231	25,392	38,213
Michigan	41,554	39,709	26,729	47,754	70,254	87,580
Minnesota	12,960	14,158	14,512	14,920	20,146	28,959
Mississippi	NA	NA	NA	16,531	13,189	13,005
Missouri	9,892	10,007	12,149	11,954	15,126	24,138
Montana	2,248	2,129	1,983	2,266	3,230	4,531
Nebraska	5,118	6,824	8,142	5,797	8,296	11,121
Nevada	10,632	12,185	11,535	9,932	10,829	9,548
New Hampshire	918	893	810	1,302	R1,490	2,115
New Jersey	28,939	32,427	35,789	33,917	39,326	50,239
New Mexico	6,667	8,136	7,917	6,160	8,284	7,848
New York	74,703	R85,694	97,493	93,399	94,944	111,890
North Carolina	12,137	12,973	13,611	13,375	15,140	17,647
North Dakota	1,327	1,314	1,159	1,384	2,260	3,140
Ohio	37,252	34,992	35,483	R53,748	59,664	75,370
Oklahoma	33,919	41,269	40,796	33,405	30,523	34,088
Oregon	12,257	12,512	9,480	7,816	9,529	11,918
Pennsylvania	28,814	27,734	29,436	30,381	44,874	60,019
Rhode Island	4,739	4,757	5,072	5,713	6,909	7,506
South Carolina	11,465	10,162	10,374	10,987	11,697	12,329
South Dakota	1,153	1,210	1,397	1,503	2,004	2,900
Tennessee	16,619	16,625	14,883	NA	18,028	21,621
Texas	NA	336,135	333,317	288,867	263,252	251,146
Utah	6,491	6,865	6,734	5,981	6,869	11,451
Vermont	345	293	285	354	569	782
Virginia	11,565	14,326	14,545	11,949	16,730	20,370
Washington	NA	NA	NA	NA	18,287	16,880
West Virginia	6,025	6,001	5,547	6,088	8,410	12,384
Wisconsin	16,641	15,927	16,856	16,978	26,124	33,702
Wyoming	R4,006	4,271	4,475	4,900	6,272	6,374
Total	R1,296,337	R1,368,236	R1,391,078	R1,308,992	R1,443,002	R1,634,490

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		
	March	February	January	Total	December	November
Alabama	24,993	29,657	31,172	293,084	27,094	22,883
Alaska	15,201	13,022	16,033	150,877	15,528	13,584
Arizona	10,327	11,108	12,383	103,037	10,289	7,516
Arkansas	20,701	24,893	27,771	252,585	23,939	18,699
California	153,401	162,740	177,251	1,721,217	166,541	147,022
Colorado	R31,268	NA	R35,247	269,006	33,157	22,968
Connecticut	14,461	16,153	15,331	126,488	13,888	10,932
Delaware	5,651	5,917	5,563	54,020	4,253	4,459
District of Columbia	4,232	4,971	5,042	33,644	4,731	2,448
Florida	44,868	33,719	28,239	478,471	29,697	33,713
Georgia	30,048	40,351	45,217	374,882	42,005	36,037
Hawaii	226	237	239	2,672	220	200
Idaho	6,454	7,128	7,546	61,058	6,736	5,424
Illinois	117,095	132,731	171,217	1,104,972	149,698	121,461
Indiana	58,071	64,849	77,941	561,056	64,588	52,504
Iowa	25,468	28,940	38,690	260,140	33,840	27,088
Kansas	25,250	29,831	35,669	275,508	33,619	24,789
Kentucky	19,924	23,491	31,742	207,529	25,797	22,270
Louisiana	102,673	104,512	111,149	1,382,966	108,393	NA
Maine	702	643	778	5,722	601	619
Maryland	20,426	23,169	25,264	189,901	22,026	16,766
Massachusetts	42,550	44,676	41,780	355,609	36,513	31,385
Michigan	111,995	120,468	135,357	980,555	114,489	91,489
Minnesota	40,103	43,694	51,447	348,671	47,484	36,773
Mississippi	14,795	17,431	18,819	216,524	16,183	16,579
Missouri	28,568	45,769	45,237	286,814	37,323	24,218
Montana	5,832	6,646	8,432	55,584	7,466	5,870
Nebraska	13,855	16,008	18,765	128,297	16,087	10,994
Nevada	11,806	9,961	11,012	122,449	10,973	9,050
New Hampshire	2,437	2,626	2,545	19,031	2,155	1,895
New Jersey	74,024	65,637	77,588	599,810	76,491	50,284
New Mexico	11,457	13,677	16,137	113,059	13,633	10,437
New York	134,862	148,697	139,721	1,121,742	NA	NA
North Carolina	19,958	25,811	25,277	205,783	23,182	17,666
North Dakota	4,558	5,115	5,328	32,670	4,544	3,497
Ohio	98,118	113,373	133,181	915,035	111,994	87,340
Oklahoma	37,995	43,503	46,790	460,373	42,614	33,004
Oregon	14,443	15,716	18,728	160,626	17,626	15,293
Pennsylvania	73,750	84,428	92,163	684,022	80,392	65,415
Rhode Island	8,621	8,649	8,803	82,041	8,359	7,830
South Carolina	13,572	15,461	15,657	146,434	15,449	12,527
South Dakota	3,604	4,506	5,684	33,594	4,805	3,425
Tennessee	NA	34,363	33,577	256,053	30,041	23,454
Texas	285,767	269,998	314,990	3,585,201	284,720	261,074
Utah	13,240	16,675	18,897	129,651	16,258	12,727
Vermont	1,048	1,059	1,078	7,325	844	698
Virginia	21,630	27,864	29,819	230,140	28,550	20,832
Washington	23,019	24,824	27,478	231,767	26,206	21,913
West Virginia	9,734	13,142	14,271	115,622	13,051	10,306
Wisconsin	46,172	48,115	61,227	398,581	50,811	43,208
Wyoming	6,938	6,883	8,992	73,609	8,146	7,382
Total	R1,932,838	2,085,746	R2,328,265	20,005,508	2,086,126	1,731,770

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				
				May	April	March	February	January
Alabama	3.12	3.82	3.25	3.56	3.20	3.03	2.93	3.18
Alaska	1.73	1.83	1.58	1.68	1.71	1.73	1.72	1.75
Arizona	2.53	3.16	2.16	2.93	2.75	2.55	2.28	2.46
Arkansas	3.02	3.24	2.53	3.00	2.96	3.13	2.85	3.09
California	2.34	2.97	2.26	2.49	2.33	2.38	2.12	2.35
Colorado	NA	NA	2.26	2.46	NA	NA	NA	NA
Connecticut	5.23	5.39	5.19	5.08	5.89	4.87	5.24	5.23
Delaware	2.57	4.06	3.55	1.79	2.63	2.73	3.02	2.71
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.47	4.08	3.74	3.15	3.92	3.25	3.20	3.81
Georgia	3.49	3.99	3.62	3.55	3.63	3.85	3.18	3.43
Hawaii	5.77	6.80	5.72	5.21	5.21	6.25	5.75	6.40
Idaho	1.90	2.19	2.09	1.94	1.96	1.81	1.94	1.89
Illinois	2.91	3.17	3.16	3.64	2.90	2.81	2.85	2.78
Indiana	NA	3.05	3.06	2.80	NA	2.32	2.48	2.49
Iowa	3.56	3.50	2.93	4.17	3.33	3.42	3.33	3.80
Kansas	3.02	3.41	2.82	3.17	2.79	2.86	2.73	3.56
Kentucky	3.29	3.71	3.26	3.33	3.99	3.23	3.09	3.22
Louisiana	2.46	3.10	3.23	2.36	2.29	2.53	2.25	2.81
Maine	NA	4.22	4.34	NA	3.25	3.25	3.25	3.25
Maryland	3.59	3.73	3.70	5.58	4.37	3.44	3.43	2.96
Massachusetts	3.44	3.47	3.52	5.18	3.48	3.30	2.89	3.40
Michigan	2.85	3.05	2.95	2.69	2.78	2.97	2.89	2.94
Minnesota	3.06	3.37	2.81	3.24	2.95	3.00	2.90	3.27
Mississippi	NA	3.41	3.26	NA	NA	NA	2.99	NA
Missouri	3.16	3.55	2.75	4.47	3.72	2.97	2.99	2.96
Montana	NA	3.22	2.83	NA	2.29	2.50	2.41	2.71
Nebraska	3.40	3.54	2.72	3.73	3.29	2.98	2.70	4.71
Nevada	3.09	3.39	2.59	3.25	3.00	3.29	3.00	3.03
New Hampshire	3.73	4.18	4.08	3.75	3.37	3.93	3.74	3.77
New Jersey	3.55	4.08	3.73	3.00	3.54	3.53	3.38	4.37
New Mexico	2.15	2.58	1.46	2.04	2.19	2.20	2.02	2.24
New York	NA	NA	3.44	NA	3.01	NA	NA	NA
North Carolina	3.61	4.01	3.69	3.66	3.91	3.49	3.47	3.65
North Dakota	2.87	3.31	2.72	2.74	2.86	2.91	2.85	2.93
Ohio	4.71	5.37	3.94	5.04	4.89	4.87	4.27	4.82
Oklahoma	2.57	3.15	2.55	2.46	2.36	2.38	2.61	2.86
Oregon	NA	2.41	2.13	2.78	NA	NA	2.31	2.53
Pennsylvania	NA	3.93	3.41	3.94	NA	5.26	3.64	3.68
Rhode Island	NA	4.08	3.79	NA	NA	3.38	3.35	3.93
South Carolina	3.39	3.68	3.93	3.90	3.66	3.34	3.05	3.37
South Dakota	3.37	3.61	2.72	4.42	4.37	2.60	3.66	3.22
Tennessee	NA	NA	3.98	3.90	6.62	2.42	3.84	NA
Texas	3.01	3.73	3.10	2.97	2.94	2.84	2.87	3.26
Utah	3.24	2.55	2.17	2.62	2.89	3.23	3.68	3.25
Vermont	2.72	2.13	2.88	2.82	2.74	2.92	2.66	2.59
Virginia	3.69	4.18	3.61	4.37	3.64	3.25	3.63	3.97
Washington	NA	2.68	2.09	NA	NA	NA	NA	NA
West Virginia	NA	3.12	3.20	NA	3.61	2.58	3.15	3.34
Wisconsin	3.27	3.51	2.99	3.63	3.54	3.33	2.99	3.21
Wyoming	NA	3.07	2.39	1.21	3.05	3.29	3.31	NA
Total	3.19	3.57	3.17	3.12	3.22	3.22	3.08	3.28

See footnotes at end of table.

Table 20. Average City Gate Price, by State, 1996-1998

(Dollars per Thousand Cubic Feet) — Continued

State	1997							
	Total	December	November	October	September	August	July	June
Alabama	3.65	2.60	3.97	4.17	3.83	3.88	4.10	3.86
Alaska	1.81	1.82	1.82	1.78	1.79	1.73	1.74	1.70
Arizona	3.15	2.53	3.48	3.80	3.74	3.16	2.98	3.32
Arkansas	3.23	3.19	3.44	3.61	2.87	3.28	2.78	2.77
California	2.98	2.65	3.30	3.18	2.74	2.79	3.72	2.67
Colorado	NA	R2.57	R3.59	R2.71	R2.66	R2.41	R2.67	R2.57
Connecticut	5.11	5.55	3.87	4.96	5.29	5.33	4.55	4.76
Delaware	3.57	2.40	5.73	5.23	1.44	3.17	3.51	3.44
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.97	3.85	4.45	4.64	3.82	3.31	3.41	3.50
Georgia	3.99	3.67	4.04	4.03	5.29	3.90	3.96	4.37
Hawaii	6.44	6.23	—	6.09	6.11	6.35	6.59	5.46
Idaho	2.12	1.79	2.07	2.01	2.17	2.50	2.16	2.83
Illinois	3.28	2.92	3.72	4.07	3.78	3.37	2.81	3.11
Indiana	3.02	2.64	3.21	3.88	3.15	2.87	2.54	2.35
Iowa	4.05	4.44	4.84	4.99	5.39	5.86	6.62	4.74
Kansas	NA	NA	4.29	3.61	3.47	3.11	2.88	3.02
Kentucky	3.83	4.07	4.28	3.89	3.57	3.62	3.68	3.69
Louisiana	3.05	2.85	3.73	3.43	3.01	2.56	2.58	2.63
Maine	3.84	3.10	2.72	4.11	3.79	4.43	4.34	4.53
Maryland	4.01	3.37	4.22	4.69	5.77	6.05	5.81	4.34
Massachusetts	3.95	4.03	4.14	4.52	4.58	4.91	5.29	5.61
Michigan	2.99	3.19	3.51	3.12	2.87	2.63	2.54	2.69
Minnesota	3.67	4.06	4.52	4.26	4.02	2.97	3.92	3.49
Mississippi	NA	3.31	3.83	NA	NA	NA	R2.87	2.95
Missouri	3.74	3.13	3.91	4.63	5.08	4.79	4.61	5.31
Montana	3.16	2.51	3.15	4.47	3.76	3.96	3.63	3.91
Nebraska	4.24	5.31	6.30	5.76	7.03	5.51	4.96	4.09
Nevada	3.39	2.84	3.71	3.46	4.12	3.99	3.87	3.64
New Hampshire	4.10	3.72	4.02	3.95	3.79	4.45	4.28	4.34
New Jersey	4.17	3.77	4.49	4.74	4.22	4.41	4.29	4.21
New Mexico	2.53	2.31	2.85	2.59	2.62	2.18	2.13	2.13
New York	NA	NA	NA	NA	3.42	3.07	2.83	2.96
North Carolina	3.97	3.72	4.09	3.95	4.13	3.96	3.90	3.84
North Dakota	3.38	3.01	4.01	3.73	3.53	3.36	3.14	3.17
Ohio	5.16	4.35	4.66	5.09	4.91	5.51	7.16	6.17
Oklahoma	3.12	3.32	3.19	3.04	2.58	2.66	3.23	2.66
Oregon	2.58	2.42	2.73	2.48	3.12	4.01	3.45	3.00
Pennsylvania	4.08	3.71	4.32	4.60	4.56	4.95	4.03	4.90
Rhode Island	4.49	4.02	4.46	4.53	5.71	6.64	7.53	6.42
South Carolina	3.81	3.72	4.13	4.15	4.03	3.86	3.74	3.78
South Dakota	3.66	3.46	3.68	3.53	4.03	4.26	4.40	4.58
Tennessee	NA	3.63	4.37	3.93	2.78	2.51	2.71	NA
Texas	3.67	3.97	3.86	3.58	3.21	3.11	3.23	3.01
Utah	2.79	3.46	3.07	2.64	2.81	3.02	2.83	2.35
Vermont	2.33	2.64	2.77	2.34	2.29	2.33	2.41	2.58
Virginia	4.13	3.65	4.15	4.83	4.69	4.47	3.94	3.77
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	3.16	2.99	3.07	3.66	3.53	3.89	1.85	3.90
Wisconsin	3.80	4.93	3.75	3.91	4.52	4.75	3.68	4.82
Wyoming	3.13	3.20	3.61	3.02	3.35	2.90	2.94	2.85
Total	R3.59	R3.47	R3.92	R3.90	R3.57	R3.39	R3.50	R3.38

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		
	May	April	March	February	January	Total	December	November
Alabama	3.54	3.16	3.20	4.02	4.44	3.48	4.07	3.61
Alaska	1.78	1.81	1.84	1.80	1.88	1.58	1.59	1.60
Arizona	3.18	2.61	2.22	2.85	4.21	2.78	4.14	3.32
Arkansas	2.59	2.48	2.46	3.16	4.18	2.76	3.68	3.04
California	2.55	2.30	2.25	3.21	4.14	2.59	3.81	3.00
Colorado	R2.42	NA	R2.32	NA	NA	2.70	4.91	3.13
Connecticut	4.81	4.94	4.82	6.00	5.82	5.11	6.15	4.60
Delaware	3.20	3.00	3.69	4.48	5.66	3.68	4.96	3.66
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.09	3.62	4.04	4.56	4.61	3.73	4.80	3.90
Georgia	3.20	3.08	3.31	4.15	4.80	3.77	4.65	3.71
Hawaii	6.47	7.21	6.50	7.73	6.16	6.05	6.67	6.30
Idaho	2.98	2.08	1.85	2.13	2.37	2.24	2.30	2.10
Illinois	3.06	2.48	2.43	3.30	3.79	3.27	4.05	3.25
Indiana	2.32	2.07	2.31	3.20	4.08	3.09	3.83	3.16
Iowa	3.49	2.83	3.05	3.66	3.98	3.47	4.09	3.46
Kansas	2.85	2.38	2.67	3.67	4.37	3.05	3.77	3.38
Kentucky	3.30	3.62	3.40	3.47	4.17	3.41	4.40	3.59
Louisiana	2.40	2.36	2.44	3.49	3.84	3.13	4.30	3.24
Maine	4.69	3.43	4.26	3.52	4.96	4.30	4.34	3.64
Maryland	4.15	3.15	3.32	3.75	4.14	4.02	4.65	3.75
Massachusetts	2.86	3.26	2.97	4.12	4.30	3.98	4.82	3.72
Michigan	2.60	2.56	2.66	3.28	3.98	2.90	3.73	3.07
Minnesota	2.64	2.41	2.70	3.48	4.51	3.07	3.78	3.19
Mississippi	2.43	2.89	2.82	3.48	4.25	3.27	4.34	3.14
Missouri	3.95	3.11	2.78	3.50	4.05	3.25	4.03	3.20
Montana	2.28	3.09	2.70	3.50	3.73	3.03	3.46	3.04
Nebraska	3.11	2.28	3.02	3.75	4.42	3.07	3.99	3.11
Nevada	2.72	2.81	2.96	3.37	4.13	3.10	3.97	3.46
New Hampshire	3.66	3.15	3.99	4.42	4.93	4.20	5.01	4.15
New Jersey	3.86	3.15	3.99	4.20	4.70	3.84	4.82	3.83
New Mexico	2.04	1.91	1.38	2.39	3.85	1.99	3.60	2.68
New York	NA	NA	NA	NA	NA	3.36	4.38	3.03
North Carolina	3.83	3.40	3.51	4.34	4.36	3.74	4.26	3.48
North Dakota	2.95	2.50	2.43	3.59	4.22	2.94	3.80	3.10
Ohio	5.96	5.79	5.01	5.41	5.24	4.37	4.79	4.95
Oklahoma	2.22	2.22	3.09	3.68	3.52	2.56	2.84	2.44
Oregon	3.02	1.95	1.92	2.35	2.95	2.42	2.95	2.41
Pennsylvania	4.30	3.48	3.48	4.12	4.22	3.77	4.24	3.92
Rhode Island	4.81	3.46	3.16	4.26	4.85	4.41	5.20	4.04
South Carolina	3.54	3.25	2.95	3.97	4.20	3.90	4.60	3.76
South Dakota	3.75	3.02	2.78	3.95	4.10	3.19	3.98	3.37
Tennessee	2.96	2.51	NA	3.73	4.10	4.04	6.64	3.71
Texas	2.50	2.38	3.01	4.16	4.70	3.22	4.21	3.49
Utah	1.93	2.15	2.69	2.76	2.65	2.25	2.39	3.32
Vermont	2.77	2.39	2.26	2.16	1.57	2.74	2.67	2.49
Virginia	5.12	3.28	3.49	3.96	5.04	3.89	5.13	3.69
Washington	2.53	2.70	1.89	2.62	3.45	2.44	3.14	2.50
West Virginia	3.02	2.88	2.17	3.54	3.61	3.36	3.53	3.25
Wisconsin	3.39	3.12	2.89	3.54	4.13	3.43	4.12	3.61
Wyoming	1.64	2.48	3.19	3.61	4.22	2.36	2.55	2.18
Total	R3.14	2.94	R3.05	3.78	4.27	3.34	4.18	3.46

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				
				May	April	March	February	January
Alabama	7.39	8.07	6.57	8.99	7.73	7.00	7.10	7.41
Alaska	3.66	3.71	3.36	3.83	3.66	3.71	3.65	3.56
Arizona	7.65	7.08	7.04	9.58	8.14	7.39	7.40	7.23
Arkansas	7.34	6.33	5.42	8.43	6.86	6.41	6.50	9.42
California	6.87	6.30	6.30	7.01	6.80	6.78	6.49	7.28
Colorado	NA	NA	4.17	5.24	NA	NA	NA	NA
Connecticut	10.32	10.36	9.90	11.57	9.78	10.18	10.33	10.36
Delaware	8.28	7.92	6.53	9.44	8.51	8.15	8.08	8.07
District of Columbia	8.79	9.22	8.93	9.70	8.86	8.62	8.44	9.01
Florida	10.88	11.54	9.79	13.08	11.34	10.51	10.47	10.33
Georgia	6.64	7.36	6.02	13.50	7.09	5.78	6.15	6.40
Hawaii	19.80	22.46	19.09	19.37	19.21	19.87	20.46	19.99
Idaho	5.19	4.93	5.09	5.59	5.38	5.18	5.14	5.01
Illinois	5.20	5.85	4.85	7.94	5.79	4.90	4.91	4.88
Indiana	NA	6.23	5.10	8.81	NA	6.13	7.04	6.12
Iowa	5.46	5.68	4.83	7.80	6.36	4.79	4.97	5.49
Kansas	5.88	6.28	5.24	6.60	5.92	5.76	5.80	5.82
Kentucky	5.65	6.18	5.01	7.15	6.56	5.25	5.47	5.48
Louisiana	6.04	6.87	6.10	8.95	6.46	5.28	5.60	6.10
Maine	NA	8.49	7.65	NA	7.90	7.90	7.90	7.90
Maryland	7.71	7.72	7.08	9.82	8.36	7.53	7.36	7.38
Massachusetts	NA	9.46	8.77	NA	9.64	9.37	9.26	9.19
Michigan	4.94	4.96	4.63	5.85	5.11	4.69	4.92	4.85
Minnesota	5.25	5.62	5.06	6.45	5.60	5.18	5.11	5.07
Mississippi	NA	5.97	5.38	NA	NA	NA	5.39	NA
Missouri	6.07	6.19	5.45	7.40	6.14	5.58	5.86	6.30
Montana	NA	4.61	4.65	NA	5.15	4.97	5.03	4.87
Nebraska	5.09	5.49	4.46	5.99	5.09	4.74	4.93	5.28
Nevada	6.79	5.83	5.90	7.30	6.90	6.80	6.79	6.53
New Hampshire	7.94	8.50	6.93	7.07	6.50	8.50	8.38	8.30
New Jersey	7.34	7.62	6.88	6.80	7.71	7.39	7.23	7.41
New Mexico	4.90	5.65	4.41	9.69	6.26	4.55	5.23	3.72
New York	NA	9.89	8.23	NA	R9.26	R8.54	R8.62	NA
North Carolina	8.10	8.88	6.94	9.29	7.91	7.77	7.93	8.33
North Dakota	4.82	4.36	4.40	5.96	5.12	4.79	4.68	4.52
Ohio	6.07	6.69	5.32	6.56	6.22	5.97	5.75	6.25
Oklahoma	5.66	6.07	5.09	6.84	5.56	5.43	5.73	5.56
Oregon	NA	5.87	6.12	7.19	NA	NA	6.44	6.09
Pennsylvania	NA	8.07	6.80	9.02	NA	8.05	8.03	9.60
Rhode Island	NA	9.27	7.89	NA	NA	9.03	8.86	8.83
South Carolina	8.14	8.69	7.10	8.44	7.88	8.02	8.27	8.17
South Dakota	5.36	5.23	4.71	6.88	5.88	5.31	5.07	5.01
Tennessee	NA	NA	6.06	6.95	6.42	5.96	6.31	NA
Texas	5.91	6.05	5.40	7.31	6.29	5.14	6.58	5.42
Utah	5.57	4.88	4.34	5.72	4.85	5.51	5.73	5.83
Vermont	6.35	6.13	6.12	7.28	6.45	6.30	6.23	6.19
Virginia	8.16	8.30	7.15	10.14	8.28	7.75	8.05	8.11
Washington	NA	5.49	5.49	NA	NA	NA	NA	NA
West Virginia	NA	6.80	6.77	NA	7.55	6.85	6.78	6.81
Wisconsin	6.07	6.43	5.85	6.29	6.02	6.28	5.98	5.96
Wyoming	NA	3.83	4.26	5.79	5.25	5.13	5.14	NA
Total	6.53	6.70	5.94	7.60	R6.74	R6.26	R6.41	6.45

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							
	Total	December	November	October	September	August	July	June
Alabama	8.39	7.32	7.99	11.10	11.62	11.70	11.26	10.45
Alaska	3.78	3.62	3.69	3.75	3.94	4.66	4.43	4.27
Arizona	7.80	7.59	9.17	11.33	9.10	10.54	10.05	9.59
Arkansas	6.64	6.23	6.40	8.66	9.53	9.25	8.64	8.23
California	6.82	7.20	7.49	7.81	7.42	7.57	7.05	7.71
Colorado	NA	NA	NA	[R]5.88	[R]7.07	[R]6.86	[R]6.82	[R]5.86
Connecticut	10.31	9.18	10.42	11.01	11.58	11.48	11.35	10.71
Delaware	8.42	8.11	8.76	10.81	11.91	11.94	11.69	10.13
District of Columbia	9.47	9.45	11.01	11.27	11.34	8.40	8.46	8.28
Florida	12.71	12.58	13.89	14.79	14.96	15.05	14.65	14.15
Georgia	7.45	6.11	5.95	8.02	10.57	11.75	11.87	12.38
Hawaii	21.71	20.40	20.84	21.04	21.33	21.61	21.17	21.51
Idaho	5.11	4.98	5.28	5.66	6.47	6.51	6.16	5.81
Illinois	5.95	5.39	5.65	6.07	8.00	7.87	7.83	7.93
Indiana	6.37	5.54	5.83	6.95	8.77	9.40	10.18	8.85
Iowa	6.27	6.09	6.52	7.80	11.19	10.25	9.53	8.08
Kansas	6.47	5.96	6.55	7.74	8.54	8.27	7.54	8.03
Kentucky	6.48	6.49	6.19	7.52	7.94	9.22	9.15	7.56
Louisiana	7.24	6.38	7.96	9.44	9.42	8.76	8.41	8.45
Maine	8.47	8.36	8.21	7.80	9.46	9.25	9.69	8.39
Maryland	8.21	7.61	8.71	9.91	10.72	11.35	10.88	9.62
Massachusetts	9.54	10.09	9.78	8.58	10.09	10.39	9.86	8.32
Michigan	5.15	4.93	5.08	5.74	6.81	7.26	6.88	6.15
Minnesota	5.79	5.17	6.12	6.58	7.62	7.17	7.06	6.36
Mississippi	NA	5.67	6.70	8.29	NA	NA	NA	7.36
Missouri	6.57	6.45	6.68	8.83	9.59	9.38	8.77	7.53
Montana	5.07	5.33	5.42	5.84	6.73	6.98	7.46	6.10
Nebraska	5.87	6.19	6.19	7.53	7.90	7.72	7.43	6.71
Nevada	6.29	6.20	6.74	7.67	7.95	7.99	7.58	7.31
New Hampshire	8.48	8.46	8.87	7.47	8.98	9.17	9.01	7.59
New Jersey	7.85	7.48	7.63	8.52	9.80	9.82	9.62	9.38
New Mexico	5.75	3.61	4.47	8.32	10.84	11.07	11.66	40.76
New York	10.32	10.22	10.65	11.75	12.64	[R]12.76	12.49	10.88
North Carolina	9.00	8.05	8.23	11.20	13.11	13.15	12.42	10.31
North Dakota	4.93	5.57	5.67	6.26	7.54	7.02	7.05	6.37
Ohio	6.75	6.20	6.31	7.40	8.29	8.46	8.71	[R]7.42
Oklahoma	6.35	5.56	6.17	8.93	9.28	9.36	8.95	8.14
Oregon	6.05	5.89	6.15	6.68	7.07	7.26	7.04	6.82
Pennsylvania	8.34	7.76	7.94	9.01	11.12	11.69	11.78	10.15
Rhode Island	9.61	8.97	9.74	10.64	12.10	12.53	12.30	10.90
South Carolina	8.60	7.98	8.00	9.53	10.15	10.24	9.73	8.96
South Dakota	5.75	5.94	6.17	6.98	9.10	8.07	8.39	7.83
Tennessee	NA	6.81	6.89	8.33	8.81	9.00	8.92	NA
Texas	6.41	5.67	6.50	8.07	8.67	8.91	8.38	7.83
Utah	5.10	5.25	5.66	4.62	5.55	5.94	5.61	5.67
Vermont	6.41	6.21	6.43	7.06	8.41	8.78	8.51	7.35
Virginia	8.83	8.42	9.02	11.07	12.27	12.45	12.40	10.70
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	6.76	5.83	6.58	5.98	8.89	9.58	10.39	8.47
Wisconsin	6.53	6.37	7.24	6.07	6.92	6.99	6.58	6.68
Wyoming	4.54	6.24	5.19	5.54	6.09	6.31	5.83	5.25
Total	[R]6.95	6.55	6.85	[R]7.65	[R]8.76	[R]8.98	[R]8.68	[R]8.24

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		
	May	April	March	February	January	Total	December	November
Alabama	8.69	9.21	8.65	7.61	7.62	7.22	7.36	7.83
Alaska	3.88	3.75	3.75	3.67	3.63	3.42	3.32	3.37
Arizona	8.68	7.93	7.03	6.81	6.62	7.52	6.85	7.43
Arkansas	6.93	6.40	6.14	6.09	6.48	5.92	6.64	6.05
California	6.38	6.18	6.42	6.27	6.27	6.44	6.20	6.41
Colorado	R4.85	R4.65	R4.32	NA	NA	4.39	3.94	4.31
Connecticut	10.71	10.07	9.66	10.96	10.41	10.08	10.49	10.26
Delaware	8.93	8.25	7.94	7.75	7.54	7.12	7.59	7.90
District of Columbia	9.18	8.74	8.57	9.36	9.81	9.19	10.22	9.18
Florida	13.36	12.89	12.12	10.69	10.57	10.74	10.47	11.98
Georgia	10.42	6.23	8.88	7.47	6.53	6.69	6.75	5.83
Hawaii	21.78	21.30	22.29	25.55	21.14	19.81	19.51	20.71
Idaho	5.26	5.10	4.95	4.80	4.81	5.20	4.89	5.22
Illinois	5.43	5.10	5.28	6.50	6.15	5.28	5.13	5.05
Indiana	7.23	6.70	6.28	6.06	5.82	5.54	5.65	5.52
Iowa	6.21	5.24	5.58	6.01	5.57	5.49	5.71	5.30
Kansas	6.24	6.04	5.98	6.58	6.33	5.59	5.75	5.47
Kentucky	6.67	6.84	6.32	6.02	5.87	5.54	6.10	5.73
Louisiana	7.52	6.09	6.28	6.85	7.34	6.76	7.30	7.75
Maine	7.95	9.05	8.65	8.66	8.10	7.84	8.53	8.05
Maryland	8.26	8.14	7.31	7.64	7.68	7.60	7.81	7.30
Massachusetts	7.49	9.90	9.70	9.62	9.55	8.88	9.53	9.52
Michigan	5.10	4.92	4.82	4.94	5.04	4.96	5.07	5.01
Minnesota	5.32	4.66	4.81	5.81	6.50	5.46	6.18	5.47
Mississippi	6.91	6.42	5.49	5.61	6.17	5.72	6.58	6.28
Missouri	5.88	5.31	5.70	6.50	6.67	5.97	6.02	5.94
Montana	5.00	4.73	4.69	4.49	4.47	4.86	4.59	4.89
Nebraska	4.65	4.91	4.86	5.75	6.21	4.88	5.35	5.01
Nevada	6.63	6.16	5.78	5.76	5.54	6.19	5.69	6.05
New Hampshire	6.62	6.62	9.36	9.24	9.10	7.40	8.41	8.67
New Jersey	8.30	7.71	7.42	7.47	7.67	7.16	7.02	7.29
New Mexico	6.53	8.78	4.46	5.09	5.81	4.47	3.72	3.80
New York	9.51	9.11	9.73	10.13	10.43	8.90	NA	NA
North Carolina	8.58	8.68	9.59	8.76	8.77	7.59	7.90	8.21
North Dakota	5.10	4.10	4.14	4.32	4.43	4.54	4.34	3.84
Ohio	6.74	6.60	6.51	6.83	6.72	5.90	6.29	6.56
Oklahoma	6.80	5.96	5.66	5.79	6.44	5.64	5.32	5.99
Oregon	6.38	6.04	5.85	5.76	5.73	6.31	5.95	6.30
Pennsylvania	8.88	8.41	8.05	8.05	7.64	7.38	7.60	7.80
Rhode Island	9.70	9.67	9.39	9.18	8.79	8.49	8.68	9.36
South Carolina	8.09	8.36	9.24	8.69	8.67	7.41	7.85	7.50
South Dakota	5.92	4.95	4.83	5.09	5.50	5.25	5.39	5.41
Tennessee	6.49	6.39	NA	7.00	6.84	6.26	6.17	5.93
Texas	6.42	5.66	5.56	6.05	6.35	5.89	6.14	5.34
Utah	5.80	4.16	5.14	4.89	4.91	4.47	4.75	4.81
Vermont	6.52	6.23	6.08	6.04	6.04	6.40	6.19	6.42
Virginia	9.05	8.12	7.56	8.07	8.87	7.94	8.48	8.26
Washington	5.69	5.68	5.48	5.40	5.39	5.65	5.44	5.60
West Virginia	7.26	6.91	6.80	6.67	6.68	7.02	6.80	7.01
Wisconsin	5.13	6.31	5.89	6.61	7.08	6.04	6.87	6.25
Wyoming	3.23	4.73	4.01	3.91	3.51	4.26	3.97	3.75
Total	R6.84	6.57	6.53	6.80	6.74	6.34	6.47	6.37

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				
				May	April	March	February	January
Alabama	6.37	7.01	5.94	6.18	R6.00	6.27	6.47	6.65
Alaska	2.39	2.48	2.38	2.24	2.31	2.39	2.45	2.49
Arizona	5.70	5.12	4.97	6.14	5.79	5.50	5.59	5.65
Arkansas	5.14	5.12	4.41	5.16	5.23	5.04	5.19	5.14
California	6.61	6.58	6.28	5.68	6.65	7.06	6.75	6.69
Colorado	NA	NA	3.72	4.21	NA	NA	NA	NA
Connecticut	7.34	7.82	7.75	7.03	6.86	7.42	7.28	7.73
Delaware	6.80	6.51	5.49	7.33	6.85	6.75	6.72	6.70
District of Columbia	7.38	8.12	7.42	6.99	7.09	7.46	7.34	7.65
Florida	6.75	6.79	6.47	6.83	6.71	6.69	6.72	6.83
Georgia	6.01	6.55	5.67	7.99	5.53	5.51	5.86	6.16
Hawaii	13.81	15.21	13.58	13.20	13.32	13.66	14.41	14.35
Idaho	4.51	4.40	4.51	4.77	4.76	4.46	4.40	4.41
Illinois	4.79	5.42	4.56	6.81	5.21	4.70	4.25	4.76
Indiana	NA	5.46	4.40	6.35	NA	5.44	5.97	5.52
Iowa	4.42	4.93	4.04	5.48	5.19	3.72	4.08	4.71
Kansas	5.04	5.83	4.48	5.75	6.08	3.85	5.43	5.44
Kentucky	5.47	5.70	4.66	5.33	5.67	5.44	5.63	5.32
Louisiana	5.45	6.28	5.86	6.10	5.49	4.94	5.24	5.73
Maine	NA	7.89	6.99	NA	7.41	7.41	7.41	7.41
Maryland	6.33	6.35	5.98	7.82	6.82	6.15	6.18	6.14
Massachusetts	7.48	7.80	7.07	6.86	7.65	7.46	7.73	7.39
Michigan	4.77	4.81	4.53	5.21	4.92	4.58	4.76	4.77
Minnesota	4.47	4.90	4.42	4.63	4.53	4.41	4.42	4.50
Mississippi	NA	5.15	5.58	NA	NA	NA	4.35	NA
Missouri	5.63	5.82	5.15	5.52	5.37	5.27	5.63	6.08
Montana	NA	4.52	4.54	NA	5.05	4.91	4.97	4.85
Nebraska	4.87	5.03	4.45	4.25	4.42	6.13	4.44	4.66
Nevada	5.71	4.99	4.86	5.75	5.76	5.69	5.76	5.63
New Hampshire	NA	7.99	6.56	NA	6.06	7.64	7.57	7.60
New Jersey	4.21	6.61	6.61	3.84	4.17	3.83	4.13	4.85
New Mexico	4.09	4.51	3.44	5.15	4.42	3.91	4.35	3.66
New York	NA	7.08	NA	NA	6.20	NA	NA	NA
North Carolina	6.62	7.33	5.93	6.18	6.09	6.45	6.72	7.05
North Dakota	4.14	3.99	3.90	4.54	4.16	4.17	4.13	4.03
Ohio	5.70	6.37	4.97	5.76	5.79	5.62	5.43	5.96
Oklahoma	5.30	5.66	4.55	4.97	4.57	5.27	5.56	5.53
Oregon	NA	4.57	4.83	5.51	NA	NA	5.17	4.92
Pennsylvania	NA	7.44	6.15	8.23	NA	7.33	7.36	7.14
Rhode Island	NA	8.14	7.28	NA	NA	7.88	7.78	7.75
South Carolina	6.65	6.85	6.32	5.98	6.40	6.55	6.91	6.92
South Dakota	4.34	4.33	3.88	5.07	4.69	4.37	4.10	4.12
Tennessee	NA	NA	5.70	5.83	5.68	5.55	6.37	NA
Texas	4.75	5.12	4.16	4.44	4.75	4.32	5.37	4.66
Utah	4.28	3.65	3.30	3.93	3.76	4.36	4.35	4.54
Vermont	5.23	5.22	5.25	5.98	5.14	5.10	5.23	5.21
Virginia	6.04	6.49	5.60	5.44	5.63	5.82	6.33	6.41
Washington	NA	4.64	4.76	NA	NA	NA	NA	NA
West Virginia	6.41	6.23	6.14	7.34	6.60	6.32	6.26	6.28
Wisconsin	5.00	5.41	4.74	4.16	4.75	5.24	4.96	5.12
Wyoming	NA	3.36	3.98	4.77	4.60	4.55	4.56	NA
Total	5.51	5.86	5.31	5.61	5.54	5.36	5.54	5.57

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							
	Total	December	November	October	September	August	July	June
Alabama	7.04	6.61	6.83	7.46	7.59	7.50	7.60	7.22
Alaska	2.44	2.55	2.53	2.52	2.28	2.09	2.24	2.15
Arizona	5.33	5.56	5.83	5.83	5.82	5.34	5.22	5.21
Arkansas	5.21	5.12	5.45	5.75	5.54	5.18	5.32	5.37
California	6.48	7.04	7.09	6.70	5.88	5.00	5.90	6.32
Colorado	NA	R4.37	NA	R4.65	R3.95	R4.63	R4.39	R4.17
Connecticut	R7.36	7.60	R7.71	6.46	6.59	5.22	R5.63	R5.76
Delaware	6.78	6.65	6.97	7.56	7.28	8.64	7.91	7.39
District of Columbia	8.05	8.11	8.78	8.08	8.11	7.20	6.92	7.03
Florida	6.94	7.31	7.41	7.13	6.94	6.62	6.98	6.93
Georgia	6.37	5.66	5.46	5.98	6.28	7.00	7.60	7.68
Hawaii	14.97	14.02	14.75	14.75	14.62	15.09	15.07	15.37
Idaho	4.47	4.34	4.66	4.73	4.73	4.83	4.76	4.78
Illinois	5.45	5.24	5.28	5.82	6.24	6.10	5.68	5.55
Indiana	5.38	4.97	4.92	4.93	6.05	6.07	6.50	6.28
Iowa	5.23	5.20	5.53	5.97	7.44	6.44	5.68	6.05
Kansas	5.72	5.71	6.00	5.92	5.66	4.90	4.95	4.90
Kentucky	5.79	5.92	6.03	5.42	5.90	5.95	6.20	6.00
Louisiana	6.28	5.94	7.10	7.30	6.20	5.94	5.39	6.19
Maine	7.70	7.79	7.62	6.84	7.61	7.16	7.12	6.94
Maryland	6.47	6.35	7.11	7.18	6.89	6.22	6.16	6.52
Massachusetts	7.31	8.03	7.74	5.63	5.45	5.53	5.34	5.04
Michigan	4.92	4.79	4.95	5.40	5.97	5.96	5.81	5.44
Minnesota	4.85	4.40	5.26	5.09	4.99	4.41	4.44	4.50
Mississippi	NA	5.08	5.58	5.98	NA	NA	NA	4.79
Missouri	5.83	6.16	6.01	6.13	5.70	5.19	5.11	4.86
Montana	4.69	5.24	3.81	5.39	4.39	5.73	5.62	5.39
Nebraska	4.86	5.34	5.40	5.26	4.33	3.76	3.56	5.88
Nevada	5.13	5.36	5.47	5.48	5.22	5.22	5.11	5.07
New Hampshire	7.65	7.79	7.83	6.15	6.28	6.47	6.49	6.20
New Jersey	5.87	4.93	5.30	4.91	4.27	4.43	4.32	4.38
New Mexico	4.45	3.59	3.90	4.67	5.12	5.35	5.47	7.67
New York	6.49	6.76	7.01	5.89	5.35	4.78	4.22	4.99
North Carolina	6.99	6.96	6.70	6.18	6.46	6.44	6.44	5.99
North Dakota	4.34	4.92	5.11	4.97	5.15	4.51	4.96	4.54
Ohio	6.31	5.94	6.05	6.22	6.54	6.82	6.76	7.00
Oklahoma	5.50	5.37	5.32	5.54	5.02	4.94	4.93	5.15
Oregon	4.64	4.67	4.74	4.66	4.82	4.89	4.76	4.79
Pennsylvania	7.37	6.90	6.89	7.26	7.68	8.05	8.12	8.13
Rhode Island	8.21	7.98	8.02	8.00	8.77	9.12	8.96	8.77
South Carolina	6.30	6.84	6.75	6.10	3.26	6.03	5.90	5.92
South Dakota	4.71	5.06	5.22	5.50	6.51	5.22	5.44	6.09
Tennessee	NA	6.29	6.12	6.09	6.07	5.81	5.91	NA
Texas	5.00	5.12	5.41	4.76	4.84	4.40	4.51	4.80
Utah	3.91	4.39	4.65	3.78	3.99	4.02	3.82	3.60
Vermont	5.18	5.15	4.99	4.91	5.01	5.43	5.42	5.41
Virginia	6.49	6.53	6.42	6.56	6.60	6.58	6.68	6.10
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	6.42	6.20	6.30	7.01	7.63	8.23	8.53	7.78
Wisconsin	5.41	5.52	6.04	4.88	4.85	4.71	4.30	4.74
Wyoming	3.93	5.56	4.62	5.02	4.43	4.31	4.11	3.93
Total	R5.78	R5.72	5.84	R5.73	R5.62	R5.40	R5.35	R5.61

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		
	May	April	March	February	January	Total	December	November
Alabama	6.85	7.11	7.26	6.92	6.97	6.19	6.52	6.31
Alaska	2.23	2.37	2.53	2.52	2.60	2.32	2.39	2.34
Arizona	5.19	5.09	5.27	5.11	5.01	5.01	4.99	5.02
Arkansas	5.14	4.90	4.86	5.07	5.42	4.68	5.59	5.02
California	5.33	6.10	6.71	6.98	7.18	5.94	6.36	5.49
Colorado	NA	NA	NA	NA	NA	3.67	3.32	3.41
Connecticut	7.00	7.24	7.66	8.45	8.09	7.41	7.90	7.84
Delaware	6.82	6.61	6.47	6.54	6.33	5.82	6.19	5.96
District of Columbia	6.87	10.06	7.61	7.97	8.24	7.37	8.01	8.02
Florida	6.89	6.74	6.96	6.84	6.56	6.45	6.47	6.43
Georgia	6.30	5.57	7.53	6.66	6.44	5.89	6.33	5.72
Hawaii	15.25	15.34	15.72	15.07	14.72	14.40	15.13	15.31
Idaho	4.66	4.62	4.36	4.29	4.30	4.56	4.34	4.63
Illinois	4.93	4.64	4.97	5.68	5.89	4.92	5.20	4.83
Indiana	6.15	5.97	5.37	5.43	5.14	4.67	4.98	4.66
Iowa	4.88	4.34	4.81	5.32	4.96	4.59	5.16	5.09
Kansas	5.25	5.17	5.46	6.25	6.12	4.61	4.90	4.56
Kentucky	5.53	5.85	5.72	5.80	5.61	5.09	5.67	5.50
Louisiana	6.08	5.08	5.83	6.48	7.08	6.08	6.87	6.58
Maine	6.67	8.28	8.10	8.12	7.75	7.09	7.87	7.58
Maryland	6.05	5.76	6.11	6.72	6.60	6.07	6.61	5.69
Massachusetts	5.44	7.94	8.14	8.28	7.97	6.74	7.91	7.30
Michigan	4.82	4.63	4.71	4.80	4.99	4.75	4.97	4.85
Minnesota	3.99	3.89	4.16	5.23	6.02	4.63	5.66	4.61
Mississippi	5.08	4.93	4.61	5.17	5.61	5.22	5.73	4.86
Missouri	4.39	4.55	5.07	6.47	6.58	5.35	5.83	5.32
Montana	4.81	4.52	4.57	4.45	4.46	4.64	4.49	4.68
Nebraska	5.00	3.91	4.23	5.24	5.91	4.47	5.38	4.03
Nevada	5.12	5.18	4.95	4.86	4.97	4.90	4.88	4.89
New Hampshire	5.86	6.52	8.67	8.81	8.41	6.74	7.75	7.78
New Jersey	5.77	5.57	6.99	7.10	6.73	6.14	6.31	5.71
New Mexico	4.23	4.63	3.54	4.37	5.36	3.35	3.34	3.20
New York	5.84	6.20	6.85	7.53	8.13	6.88	NA	NA
North Carolina	6.02	6.50	7.85	7.67	7.52	6.18	6.78	6.67
North Dakota	4.25	3.66	3.65	4.09	4.24	3.91	4.06	3.06
Ohio	6.08	6.18	6.03	6.74	6.45	5.38	5.82	6.15
Oklahoma	4.97	4.81	5.26	5.75	6.40	4.70	5.04	4.80
Oregon	4.62	4.61	4.57	4.55	4.56	4.85	4.65	4.82
Pennsylvania	7.99	7.70	7.37	7.55	7.07	6.44	6.86	6.61
Rhode Island	8.07	8.46	8.17	8.20	7.88	7.50	7.89	7.78
South Carolina	5.92	6.59	7.20	6.87	7.18	6.26	7.01	6.37
South Dakota	4.77	4.04	3.96	4.28	4.61	4.20	4.34	4.20
Tennessee	5.39	5.01	NA	6.19	6.51	5.72	5.78	5.32
Texas	4.60	4.29	4.42	5.28	6.00	4.27	5.38	4.58
Utah	3.37	3.09	3.81	3.75	3.81	3.38	3.69	3.80
Vermont	5.58	5.10	5.15	5.21	5.24	5.24	5.20	5.11
Virginia	6.31	6.29	5.93	6.61	6.97	5.93	6.74	5.94
Washington	4.83	4.21	4.71	4.72	4.65	4.80	4.76	4.79
West Virginia	6.81	6.42	6.22	6.13	6.09	6.03	5.85	6.26
Wisconsin	3.83	5.07	5.03	5.60	6.14	4.83	5.73	4.99
Wyoming	2.65	3.59	3.46	3.53	3.41	3.68	3.08	2.60
Total	5.36	5.45	5.72	6.09	6.15	5.40	5.78	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				
				May	April	March	February	January
Alabama	3.33	3.56	3.74	3.16	3.44	3.03	3.50	3.47
Alaska	1.48	1.53	1.45	1.43	1.42	1.45	1.52	1.56
Arizona	3.49	4.05	3.85	3.44	3.45	3.33	3.76	3.53
Arkansas	3.59	3.63	3.14	3.28	3.39	3.78	3.62	3.77
California	3.93	4.15	3.77	2.88	3.97	3.31	5.34	4.55
Colorado	2.53	NA	0.78	2.48	R2.26	R2.62	2.58	2.69
Connecticut	4.78	5.14	5.24	4.13	4.55	4.74	5.13	5.12
Delaware	4.18	4.32	4.03	4.32	4.63	3.79	4.08	4.22
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.47	4.52	4.26	4.46	4.58	4.40	4.29	4.59
Georgia	5.34	5.31	4.48	5.30	5.15	5.18	5.37	5.63
Hawaii	—	—	—	—	—	—	—	—
Idaho [a]	3.09	2.75	2.92	3.09	3.10	3.25	3.02	3.06
Illinois	4.13	5.02	3.95	4.18	4.02	4.08	4.12	4.22
Indiana	NA	4.33	3.47	4.51	NA	4.56	4.29	4.68
Iowa	1.37	3.97	3.31	3.39	0.73	0.64	2.42	3.43
Kansas	3.59	2.97	3.03	3.31	3.56	3.61	3.67	3.91
Kentucky	4.03	4.31	3.80	3.21	3.85	3.79	4.51	4.59
Louisiana	2.59	2.94	2.93	2.62	2.19	2.89	2.22	2.90
Maine	NA	6.09	5.86	NA	6.02	6.02	6.02	6.02
Maryland	4.86	NA	5.20	5.02	5.10	4.68	4.82	5.42
Massachusetts	NA	6.87	6.11	NA	6.64	6.77	6.70	6.79
Michigan	3.88	4.13	3.92	4.01	3.81	3.61	4.11	3.90
Minnesota	3.09	3.29	2.98	3.03	3.06	3.08	3.00	3.25
Mississippi	NA	3.48	3.47	NA	NA	NA	3.22	NA
Missouri	4.65	4.79	4.28	4.25	4.30	4.27	4.69	5.30
Montana	NA	4.82	4.79	NA	5.22	5.02	4.85	4.82
Nebraska	3.61	3.75	3.12	5.81	3.35	3.34	3.27	3.30
Nevada	5.95	7.25	4.94	5.94	5.84	6.00	6.06	5.90
New Hampshire	NA	5.46	4.73	NA	3.77	5.47	5.84	7.08
New Jersey	3.45	4.16	4.19	3.43	3.42	3.24	3.42	3.71
New Mexico	3.65	3.31	3.13	3.77	4.00	4.09	5.84	2.16
New York	NA	5.27	5.37	NA	4.49	15.18	NA	NA
North Carolina	4.19	5.10	4.39	3.68	3.63	4.19	4.41	4.95
North Dakota	3.14	3.04	3.25	3.15	3.10	3.22	3.01	3.22
Ohio	5.36	5.81	4.08	4.98	5.21	5.67	5.06	5.62
Oklahoma	3.88	4.23	3.04	3.13	3.32	4.12	4.18	4.10
Oregon	NA	3.62	3.19	3.75	NA	NA	3.73	3.67
Pennsylvania	4.51	4.97	4.30	4.05	4.40	4.57	4.55	4.80
Rhode Island	NA	4.56	4.73	NA	3.86	4.06	4.25	4.59
South Carolina	3.47	3.74	3.93	3.31	3.42	3.53	3.38	3.67
South Dakota	3.33	3.91	2.69	3.44	3.37	3.38	3.25	3.30
Tennessee	NA	NA	3.95	3.54	3.64	3.59	3.98	NA
Texas	2.50	2.77	2.45	2.44	2.49	2.49	2.44	2.66
Utah	3.03	2.42	2.13	2.90	2.95	3.05	3.19	3.06
Vermont	2.96	3.11	3.63	2.87	2.86	2.94	3.01	3.06
Virginia	4.17	4.72	4.19	3.01	3.45	4.08	4.99	4.81
Washington	NA	3.33	2.50	NA	NA	NA	NA	NA
West Virginia	NA	2.94	2.76	NA	2.97	2.79	2.75	2.81
Wisconsin	4.08	4.14	3.40	3.69	4.20	4.17	4.48	3.79
Wyoming	NA	3.37	3.13	4.19	4.12	NA	NA	R3.29
Total	3.40	3.69	3.48	3.12	3.22	3.41	3.52	3.68

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							
	Total	December	November	October	September	August	July	June
Alabama	3.46	3.57	3.62	3.66	3.21	3.21	3.08	3.20
Alaska	1.54	1.56	1.55	1.54	1.57	1.56	1.56	1.48
Arizona	3.56	3.37	3.20	3.68	3.26	3.10	3.16	3.90
Arkansas	3.70	3.98	4.28	3.87	3.58	3.57	3.42	3.37
California	4.07	4.45	4.63	4.28	3.50	3.42	3.79	4.00
Colorado	NA	NA	NA	2.95	2.40	R2.28	2.19	2.17
Connecticut	4.72	4.81	4.96	4.29	4.07	3.86	3.93	4.02
Delaware	4.32	4.60	4.69	4.55	4.06	4.07	4.04	3.99
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.63	4.94	5.21	5.02	4.79	4.64	4.32	4.40
Georgia	5.18	4.61	5.04	4.80	6.43	4.68	4.81	6.14
Hawaii	—	—	—	—	—	—	—	—
Idaho [a]	2.73	2.77	2.74	2.72	2.69	2.68	2.80	2.52
Illinois	4.71	4.92	5.69	4.57	3.83	4.48	4.15	3.16
Indiana	4.11	4.28	3.48	3.57	4.07	3.95	3.91	4.38
Iowa	4.12	4.56	4.55	4.42	3.90	3.52	4.11	3.37
Kansas	3.27	5.41	4.18	4.33	3.44	3.10	3.01	3.03
Kentucky	4.36	5.01	5.39	4.35	3.99	3.87	3.90	3.61
Louisiana	2.96	3.12	3.52	3.54	2.86	2.49	2.76	2.71
Maine	5.55	7.19	5.88	4.68	4.65	4.43	4.40	4.45
Maryland	NA	5.49	5.32	4.36	4.87	4.49	5.38	4.67
Massachusetts	5.97	7.02	6.63	4.54	4.19	4.02	4.19	3.73
Michigan	4.19	4.19	4.24	4.51	4.16	4.53	4.60	4.41
Minnesota	3.26	3.24	3.86	3.80	3.06	2.74	2.74	2.72
Mississippi	NA	3.53	4.04	3.86	NA	NA	NA	3.21
Missouri	4.62	5.36	5.04	4.35	3.89	3.88	3.81	3.81
Montana	4.87	4.93	4.88	4.99	4.98	4.98	4.96	4.88
Nebraska	3.74	3.97	4.32	4.15	3.48	3.38	3.09	3.02
Nevada	7.89	8.10	9.69	11.58	9.23	7.42	7.08	7.50
New Hampshire	R4.94	7.42	6.53	4.54	3.47	3.46	3.42	3.62
New Jersey	3.83	4.33	4.41	3.79	3.31	2.72	3.35	3.32
New Mexico	3.12	2.38	2.96	3.56	3.24	3.02	2.92	3.71
New York	4.50	5.42	5.48	4.95	3.88	4.20	1.56	4.32
North Carolina	4.65	5.10	5.05	4.13	4.30	2.83	4.00	3.64
North Dakota	3.23	3.43	3.85	4.07	3.35	3.66	3.14	3.02
Ohio	5.70	5.60	5.54	4.99	5.55	5.38	4.42	6.70
Oklahoma	4.05	4.26	4.37	4.10	3.44	3.33	3.34	3.32
Oregon	3.45	3.91	3.65	3.04	3.03	2.96	3.15	3.10
Pennsylvania	4.73	4.56	4.59	4.46	4.21	4.14	4.59	4.70
Rhode Island	4.33	5.04	4.59	4.28	4.08	3.66	3.78	3.74
South Carolina	3.68	3.95	4.26	3.97	3.23	3.25	3.40	3.32
South Dakota	4.01	3.71	4.36	4.64	4.16	3.96	4.49	4.08
Tennessee	NA	4.47	4.17	4.16	3.89	3.44	3.09	NA
Texas	NA	2.80	3.51	3.29	NA	2.34	2.41	2.46
Utah	2.62	3.11	2.98	2.81	2.61	2.81	2.70	2.27
Vermont	3.07	3.11	3.12	2.97	3.00	2.96	2.97	3.01
Virginia	4.25	4.27	3.97	3.44	3.98	3.95	3.82	3.88
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	2.87	2.75	2.68	2.89	2.93	2.84	2.91	2.72
Wisconsin	4.12	4.53	5.05	4.19	3.54	3.24	3.20	3.28
Wyoming	3.39	3.55	3.55	3.32	3.32	3.34	3.38	3.35
Total	3.54	3.79	4.07	3.66	3.21	2.92	3.01	3.07

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		
	May	April	March	February	January	Total	December	November
Alabama	3.19	2.96	3.15	3.91	4.57	3.64	4.61	3.72
Alaska	1.44	1.53	1.55	1.57	1.55	1.41	1.35	1.35
Arizona	3.90	4.31	4.06	3.74	4.32	3.80	3.81	3.80
Arkansas	3.17	3.19	3.31	3.78	4.45	3.28	4.33	3.72
California	2.51	3.45	4.24	5.32	5.49	3.77	4.40	4.01
Colorado	2.30	2.17	NA	NA	3.89	2.91	1.01	0.94
Connecticut	4.22	4.46	4.91	5.76	6.11	4.80	5.81	4.95
Delaware	3.62	3.62	4.35	5.03	5.29	4.32	5.00	4.62
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.34	4.41	4.42	4.68	4.69	4.21	4.52	4.29
Georgia	4.67	4.39	5.07	5.63	6.40	4.40	4.87	3.76
Hawaii	—	—	—	—	—	—	—	—
Idaho [a]	2.73	2.75	2.75	2.76	2.78	2.78	2.42	2.51
Illinois	3.00	4.10	4.80	5.86	6.49	4.12	4.15	4.09
Indiana	4.50	4.67	4.41	4.21	4.19	3.62	4.16	3.52
Iowa	3.96	3.14	4.04	4.73	3.94	3.63	3.96	3.82
Kansas	2.57	2.32	2.34	3.45	4.33	3.09	4.85	3.37
Kentucky	3.73	3.82	3.97	4.67	4.78	3.87	4.64	3.92
Louisiana	2.39	2.34	2.09	3.49	4.19	2.84	4.07	3.05
Maine	4.10	5.77	7.08	7.10	6.95	5.22	6.60	6.56
Maryland	4.71	20.15	5.67	NA	5.31	5.36	4.63	6.00
Massachusetts	4.63	6.35	7.12	8.35	7.49	5.37	6.98	5.52
Michigan	4.24	4.12	4.15	4.02	4.16	3.87	4.06	3.97
Minnesota	2.67	2.58	2.74	3.73	4.66	2.97	4.18	3.09
Mississippi	3.06	2.98	2.93	3.80	4.45	3.43	4.47	3.59
Missouri	3.45	3.78	4.48	5.94	5.35	4.35	4.84	4.02
Montana	4.85	4.84	4.84	4.80	4.79	4.88	4.87	4.95
Nebraska	2.77	2.66	3.19	4.14	5.16	3.29	4.30	3.62
Nevada	7.77	5.80	4.67	8.34	9.50	4.90	4.67	4.68
New Hampshire	R3.59	4.02	6.10	7.97	7.94	4.79	6.84	5.13
New Jersey	3.09	2.87	4.82	5.03	4.92	3.82	4.62	3.70
New Mexico	2.96	5.10	3.40	4.02	3.01	2.90	2.63	2.78
New York	4.49	4.58	5.22	5.72	5.93	5.04	5.17	4.79
North Carolina	4.01	4.14	4.80	5.41	5.63	4.37	5.14	4.65
North Dakota	2.42	2.37	1.60	4.94	4.39	3.02	3.89	2.36
Ohio	4.50	5.96	5.49	6.71	5.77	4.10	2.79	5.14
Oklahoma	2.75	3.08	3.90	4.53	5.41	3.26	3.87	3.33
Oregon	3.15	3.57	3.68	3.80	3.73	3.24	3.29	3.36
Pennsylvania	4.48	4.73	4.91	5.25	5.25	4.12	3.87	4.15
Rhode Island	4.72	3.56	4.50	5.52	5.64	4.67	9.64	4.62
South Carolina	3.26	3.21	3.43	4.22	4.74	3.77	4.58	4.03
South Dakota	3.55	3.12	3.00	4.00	4.99	3.50	6.16	4.81
Tennessee	3.19	3.40	NA	4.75	4.80	3.92	4.52	3.95
Texas	2.31	2.03	2.08	3.19	4.10	2.58	3.82	2.89
Utah	2.27	2.31	2.53	2.53	2.44	2.10	2.28	2.22
Vermont	3.05	2.98	3.10	3.14	3.32	3.44	3.18	3.20
Virginia	4.03	3.11	4.79	5.51	6.33	4.07	3.91	3.53
Washington	2.94	2.75	2.88	3.58	4.36	2.67	3.81	2.78
West Virginia	2.81	2.49	2.78	3.03	3.44	2.76	2.96	3.06
Wisconsin	2.98	3.89	3.55	4.41	5.06	3.48	4.79	4.10
Wyoming	3.24	3.40	3.40	3.41	3.40	3.14	3.25	3.32
Total	2.92	3.00	3.36	4.21	4.64	3.42	4.20	3.57

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				1997
				April	March	February	January	Total
Alabama	2.66	2.95	3.20	2.69	2.55	2.44	2.86	2.76
Alaska	1.85	1.63	1.27	1.84	1.85	1.88	1.85	1.74
Arizona	2.82	4.11	2.60	2.82	3.07	2.56	2.84	2.99
Arkansas	2.44	2.72	2.91	2.56	2.36	2.16	2.25	2.60
California	2.84	3.45	2.77	2.71	2.85	2.79	2.94	3.07
Colorado	2.68	3.00	1.87	2.53	2.61	2.65	3.01	3.21
Connecticut	2.73	2.67	2.79	2.70	2.79	2.63	2.74	2.55
Delaware	3.21	3.16	4.08	1.41	4.15	3.21	5.34	3.15
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.51	3.16	3.35	2.68	2.64	2.49	2.25	3.20
Georgia	2.06	3.00	5.26	1.94	1.72	2.88	2.35	2.76
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.37	2.36	3.11	2.55	2.34	2.28	2.25	2.54
Indiana	3.27	3.48	3.65	3.37	3.25	2.64	3.84	3.27
Iowa	3.22	3.48	4.16	3.14	3.35	3.00	3.36	3.27
Kansas	2.51	2.71	2.33	2.40	2.36	1.97	3.35	2.48
Kentucky	4.07	3.69	3.70	5.25	4.04	3.58	3.46	3.34
Louisiana	2.57	2.83	3.50	2.66	2.51	2.47	2.61	2.80
Maine	—	—	—	—	—	—	—	—
Maryland	3.35	3.54	5.15	3.33	3.18	3.32	3.75	2.97
Massachusetts	3.35	2.98	4.23	3.66	3.64	2.95	3.16	3.11
Michigan	0.87	0.62	0.76	1.35	0.75	0.84	0.51	0.79
Minnesota	2.74	2.32	2.37	2.76	2.83	2.62	2.63	2.54
Mississippi	2.50	2.81	4.37	2.56	2.46	2.46	2.48	2.75
Missouri	2.60	3.50	2.87	2.56	2.52	2.82	2.63	2.67
Montana	9.33	4.89	8.78	1.40	12.33	8.49	4.61	7.62
Nebraska	2.40	2.37	2.10	1.98	2.72	4.47	2.72	2.58
Nevada	2.29	2.09	2.10	2.31	2.02	2.37	2.41	2.17
New Hampshire	—	—	—	—	—	—	—	2.71
New Jersey	2.94	3.06	2.99	3.05	2.88	2.83	2.98	3.07
New Mexico	2.39	2.66	2.16	2.41	2.39	2.30	2.43	2.64
New York	2.95	2.98	3.79	2.87	2.96	2.95	3.00	2.89
North Carolina	3.86	2.84	3.08	3.37	4.03	—	3.02	3.16
North Dakota	—	3.31	3.58	—	—	—	—	3.81
Ohio	3.84	4.01	3.76	4.01	4.14	3.16	3.32	3.66
Oklahoma	3.12	3.42	3.42	2.88	2.62	2.72	4.47	2.97
Oregon	1.22	1.73	—	1.36	1.23	1.03	1.14	1.48
Pennsylvania	3.43	3.10	3.92	5.94	2.69	2.64	2.79	2.86
Rhode Island	3.35	3.25	2.39	3.45	3.19	3.24	3.48	3.39
South Carolina	3.63	4.10	4.48	3.44	3.58	3.53	4.05	4.15
South Dakota	—	—	—	—	—	—	—	—
Tennessee	—	—	1.20	—	—	—	—	—
Texas	2.47	2.75	2.47	2.52	2.43	2.41	2.49	2.70
Utah	—	—	20.25	—	—	—	—	2.11
Vermont	2.92	3.15	2.81	3.08	2.81	2.77	3.02	3.27
Virginia	3.57	2.74	2.36	4.46	3.34	3.78	3.05	2.99
Washington	2.79	6.99	5.17	5.59	3.86	4.11	1.64	5.54
West Virginia	5.59	5.00	3.74	—	—	—	5.59	3.87
Wisconsin	2.87	3.06	3.18	3.13	2.75	2.91	2.90	3.04
Wyoming	8.48	15.06	18.37	4.77	10.42	8.72	5.39	9.31
Total	2.57	2.90	2.83	2.59	2.54	2.51	2.64	2.81

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							
	December	November	October	September	August	July	June	May
Alabama	2.90	3.70	3.75	2.88	2.56	2.51	2.65	2.44
Alaska	1.84	1.84	1.85	1.88	1.69	1.87	1.79	1.64
Arizona	2.86	4.00	3.11	3.37	2.63	2.20	3.03	3.11
Arkansas	2.24	3.12	3.12	2.89	2.64	2.38	2.40	1.92
California	2.96	3.64	3.40	3.14	2.81	2.69	2.75	2.60
Colorado	2.93	3.90	2.37	2.42	2.77	4.07	2.31	6.20
Connecticut	2.74	3.38	2.76	2.37	2.35	2.33	2.26	2.22
Delaware	4.28	2.58	5.69	3.40	3.00	2.83	1.95	3.68
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.19	4.06	4.05	3.41	2.97	2.94	3.03	2.87
Georgia	4.97	3.33	3.94	3.07	2.27	2.75	3.13	2.64
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.48	3.31	3.13	2.82	2.39	2.31	2.37	2.29
Indiana	3.67	4.03	5.25	3.67	3.39	2.77	2.99	3.06
Iowa	2.99	4.16	3.81	3.28	3.12	2.70	3.28	2.89
Kansas	3.33	3.02	3.05	2.70	2.13	2.06	2.11	2.14
Kentucky	3.47	4.24	4.00	3.25	2.92	2.87	2.96	2.83
Louisiana	2.86	3.61	3.40	3.03	2.60	2.44	2.65	2.45
Maine	—	—	—	—	—	—	—	—
Maryland	3.61	4.10	3.91	3.42	2.89	2.35	2.69	2.98
Massachusetts	3.57	4.08	4.08	3.21	2.87	2.81	2.92	2.84
Michigan	0.47	1.08	1.59	0.73	0.58	0.96	0.84	0.42
Minnesota	2.99	3.72	3.67	3.56	2.43	2.43	2.34	2.30
Mississippi	2.80	3.51	3.35	3.02	2.61	2.46	2.52	2.37
Missouri	2.77	3.52	3.35	2.94	2.51	2.39	2.44	2.74
Montana	4.18	6.84	2.98	64.31	1.92	1.37	9.35	13.57
Nebraska	4.94	4.29	3.21	2.98	2.49	2.32	2.00	1.89
Nevada	2.16	2.80	2.64	2.39	2.02	1.98	2.09	1.99
New Hampshire	—	—	—	2.85	2.55	2.74	2.72	2.68
New Jersey	3.20	4.19	4.23	3.42	2.87	2.80	2.85	2.76
New Mexico	2.55	3.02	3.05	2.82	2.47	2.46	2.38	2.39
New York	3.38	3.83	3.39	2.89	2.60	2.58	2.65	2.62
North Carolina	3.60	4.95	3.68	3.38	3.09	3.12	2.87	2.64
North Dakota	—	—	—	—	—	4.00	—	4.14
Ohio	4.13	4.12	4.00	4.35	4.28	3.10	3.20	4.13
Oklahoma	2.89	4.05	3.46	3.20	2.48	2.37	2.63	2.91
Oregon	1.48	1.44	1.45	1.49	1.49	1.35	1.57	—
Pennsylvania	3.16	3.69	3.65	2.99	2.81	2.54	3.04	2.57
Rhode Island	3.78	4.05	4.02	3.32	3.04	2.98	3.21	3.09
South Carolina	4.46	4.00	4.10	4.54	4.54	4.35	3.51	3.84
South Dakota	—	—	—	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	2.74	3.33	3.15	2.85	2.50	2.39	2.46	2.34
Utah	—	—	2.00	2.66	1.79	1.86	4.82	—
Vermont	3.42	4.21	3.96	—	2.90	2.95	—	2.83
Virginia	2.54	4.09	4.73	3.77	2.95	2.58	2.93	3.05
Washington	5.73	5.16	4.21	8.62	0.67	4.83	3.83	7.21
West Virginia	3.31	3.00	3.29	3.41	3.71	3.79	3.23	3.22
Wisconsin	2.92	4.11	3.94	3.09	2.85	3.12	2.81	2.58
Wyoming	1.63	3.43	4.88	7.74	34.13	20.44	4.00	11.82
Total	2.85	3.48	3.30	2.99	2.58	2.49	2.59	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	1997				1996			
	April	March	February	January	Total	December	November	October
Alabama	3.21	2.12	2.04	4.37	2.95	4.32	3.16	2.27
Alaska	1.63	1.55	1.69	1.68	1.45	1.64	1.63	1.73
Arizona	4.47	2.85	4.01	5.70	3.03	7.53	4.76	2.53
Arkansas	1.98	1.60	1.92	4.18	2.52	3.88	2.62	1.36
California	2.63	3.04	4.14	4.67	2.75	4.55	3.40	2.60
Colorado	2.47	2.26	3.32	3.76	2.09	4.30	2.93	2.47
Connecticut	2.22	2.45	3.08	3.97	2.76	4.97	3.26	2.78
Delaware	2.53	2.61	2.90	4.87	3.13	4.06	3.65	2.32
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.58	2.62	3.80	5.18	3.12	4.75	3.38	2.56
Georgia	2.64	3.34	8.15	2.08	2.88	6.28	2.50	3.08
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.12	2.00	2.93	3.34	2.62	3.82	3.10	2.12
Indiana	2.88	2.74	3.74	5.04	3.48	4.80	3.86	3.38
Iowa	2.79	2.73	3.74	5.11	3.23	3.77	3.45	2.95
Kansas	2.00	1.80	2.92	4.56	2.25	4.10	2.62	1.88
Kentucky	3.13	3.20	3.69	4.85	3.49	4.64	3.51	2.82
Louisiana	2.18	2.10	2.93	4.35	2.94	4.37	3.12	2.25
Maine	—	—	—	—	—	—	—	—
Maryland	3.14	4.18	5.75	5.04	3.11	5.92	4.02	2.65
Massachusetts	2.54	2.64	3.29	5.37	3.07	4.85	3.85	2.69
Michigan	0.61	0.69	0.59	0.56	0.74	0.55	0.73	0.55
Minnesota	2.34	2.17	3.35	2.26	2.18	2.32	2.19	2.14
Mississippi	2.27	2.08	2.61	4.15	2.78	4.27	3.23	2.10
Missouri	2.77	2.26	4.62	5.41	2.58	4.90	2.61	2.38
Montana	2.87	4.08	9.68	3.54	2.89	1.81	1.66	0.65
Nebraska	1.89	2.29	3.20	3.22	2.07	4.37	2.85	1.85
Nevada	2.02	2.05	2.33	2.14	2.12	2.19	2.37	2.71
New Hampshire	—	—	—	—	—	—	—	—
New Jersey	2.69	2.57	3.60	4.65	2.96	4.39	3.16	2.36
New Mexico	2.07	2.01	2.85	4.07	2.31	3.80	2.94	2.17
New York	2.53	2.56	3.35	4.36	2.96	4.22	3.39	2.37
North Carolina	2.79	—	—	6.89	3.11	4.41	4.20	2.55
North Dakota	3.98	2.93	—	—	2.93	2.81	3.92	2.94
Ohio	4.06	4.03	4.16	3.87	3.44	4.27	3.92	2.96
Oklahoma	2.57	2.88	4.36	4.21	2.98	4.43	3.61	2.93
Oregon	—	1.40	—	1.96	1.33	2.01	1.42	1.42
Pennsylvania	2.31	2.72	2.91	4.65	2.85	4.57	3.31	2.70
Rhode Island	2.82	2.90	4.09	3.18	2.29	3.14	2.34	1.81
South Carolina	3.87	2.84	4.22	6.95	4.56	5.08	4.47	5.32
South Dakota	—	—	—	—	2.36	—	—	—
Tennessee	—	—	—	—	2.61	—	1.20	—
Texas	2.14	2.12	2.85	3.89	2.51	3.80	2.82	2.23
Utah	—	—	—	—	1.83	—	—	—
Vermont	2.27	2.61	3.60	5.05	3.22	4.42	3.37	2.68
Virginia	2.71	2.76	1.80	3.13	2.98	3.42	2.04	3.77
Washington	5.93	65.04	4.50	5.11	4.98	4.75	5.03	4.35
West Virginia	3.63	3.82	7.68	3.15	2.99	2.94	2.87	3.69
Wisconsin	2.46	2.33	3.42	4.74	3.04	4.29	3.48	2.55
Wyoming	24.02	22.85	2.47	13.99	12.59	26.41	17.57	17.64
Total	2.34	2.39	3.18	4.08	2.69	3.98	3.04	2.37

[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 May	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	69.7	16.6	72.4	18.0	84.9	24.6	35.4	13.3
Alaska	58.4	100.0	57.9	98.2	71.4	65.0	55.9	100.0
Arizona	86.0	32.5	86.5	19.8	87.4	22.2	83.3	35.8
Arkansas	93.7	9.7	95.2	12.1	96.0	14.4	87.3	9.0
California	56.5	11.5	54.8	11.5	60.2	10.9	48.3	11.7
Colorado	NA	7.4	NA	NA	94.1	14.8	95.0	1.0
Connecticut	73.5	58.2	87.7	70.2	91.1	95.0	76.3	55.7
Delaware	100.0	25.3	100.0	33.2	100.0	47.0	100.0	19.5
District of Columbia	57.1	—	65.5	—	81.1	—	47.7	—
Florida	96.4	4.0	96.9	7.4	97.1	15.1	96.7	3.5
Georgia	87.7	15.9	90.6	17.0	96.7	38.5	82.0	15.7
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	88.2	2.4	87.9	2.2	88.4	1.3	85.4	2.2
Illinois	50.5	9.5	55.9	11.4	56.2	16.6	34.8	6.8
Indiana	NA	NA	80.9	15.0	97.7	24.7	76.7	6.2
Iowa	82.7	5.2	89.2	7.5	89.3	8.1	87.3	0.5
Kansas	73.0	5.9	69.0	10.7	77.4	7.8	68.5	8.1
Kentucky	88.1	14.2	90.1	17.8	91.8	35.3	84.2	14.7
Louisiana	70.8	7.2	98.3	9.1	98.1	10.0	96.5	7.3
Maine	NA	NA	100.0	94.4	100.0	92.7	NA	NA
Maryland	52.5	3.4	79.4	10.2	93.8	18.7	29.7	9.0
Massachusetts	61.8	NA	68.9	22.1	82.5	31.5	52.8	NA
Michigan	63.0	8.3	66.7	8.7	71.4	12.1	42.2	5.9
Minnesota	94.3	41.3	98.5	41.2	97.4	42.3	98.5	35.1
Mississippi	NA	NA	95.9	37.4	97.7	42.5	NA	NA
Missouri	83.6	20.6	82.4	22.6	86.6	27.9	75.7	14.0
Montana	NA	NA	91.3	3.9	92.5	4.3	NA	NA
Nebraska	76.9	23.1	76.7	22.1	78.9	22.5	74.0	14.8
Nevada	76.0	2.0	74.9	2.2	78.1	1.9	71.9	4.8
New Hampshire	NA	NA	95.9	55.2	98.2	58.3	NA	NA
New Jersey	58.5	47.1	71.2	49.5	78.0	58.7	46.0	26.4
New Mexico	64.8	8.5	69.1	10.7	62.6	1.8	49.8	9.6
New York	NA	NA	62.9	6.7	NA	11.9	NA	NA
North Carolina	91.8	27.9	94.3	39.8	99.1	76.0	86.7	26.9
North Dakota	85.3	29.1	92.5	47.5	90.4	21.5	79.2	15.4
Ohio	57.9	3.4	68.2	5.4	74.9	9.6	41.4	1.5
Oklahoma	79.0	5.0	88.6	6.0	87.9	7.9	70.4	2.9
Oregon	NA	NA	98.7	19.9	98.5	24.0	98.8	15.0
Pennsylvania	NA	14.5	65.0	15.4	75.9	21.6	59.4	13.2
Rhode Island	NA	NA	87.1	18.7	99.0	21.0	NA	NA
South Carolina	98.3	85.9	98.3	82.0	99.7	86.0	98.2	87.7
South Dakota	85.1	37.0	85.7	26.6	86.4	35.6	65.9	15.8
Tennessee	NA	NA	NA	NA	96.4	52.4	77.4	23.9
Texas	64.4	14.3	64.4	18.3	85.1	20.5	55.9	14.1
Utah	84.0	8.3	84.9	9.2	83.4	9.3	73.7	8.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	73.7	15.2	79.4	12.2	91.0	21.3	70.0	13.0
Washington	NA	NA	85.4	25.7	87.6	29.8	NA	NA
West Virginia	42.2	NA	60.6	12.2	60.2	15.7	29.0	NA
Wisconsin	77.7	22.2	85.8	32.7	93.5	43.5	53.8	15.1
Wyoming	NA	NA	76.3	1.8	92.6	3.2	89.8	1.8
Total	69.6	14.8	73.8	17.6	81.4	21.3	60.3	12.4

See footnotes at end of table.

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

State	1998							
	April		March		February		January	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	R80.2	14.8	77.8	17.4	80.1	17.8	76.7	19.4
Alaska	57.4	100.0	57.6	100.0	60.0	100.0	59.9	100.0
Arizona	84.9	32.7	86.7	34.0	87.2	27.7	86.9	32.3
Arkansas	89.5	9.1	93.9	10.2	95.3	10.9	95.5	10.5
California	52.7	10.9	71.1	16.5	54.3	8.7	58.1	11.0
Colorado	NA	R0.8	NA	R1.2	NA	R1.2	NA	R2.5
Connecticut	62.3	61.9	71.2	59.4	78.2	57.8	78.4	61.0
Delaware	100.0	23.3	100.0	27.9	100.0	28.6	100.0	26.4
District of Columbia	52.5	—	60.1	—	59.0	—	60.2	—
Florida	96.8	4.5	96.2	4.4	96.3	4.0	96.3	4.5
Georgia	85.5	13.4	87.5	17.2	90.3	16.7	88.7	16.5
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	86.4	2.2	88.1	2.0	88.7	3.0	90.0	2.5
Illinois	44.3	9.1	55.3	10.6	50.4	9.8	53.7	10.7
Indiana	NA	NA	88.6	12.3	84.6	11.1	85.7	11.2
Iowa	82.8	19.9	72.1	22.8	88.7	7.1	87.4	7.4
Kansas	69.5	5.6	76.9	5.5	73.1	5.3	71.5	5.1
Kentucky	85.7	14.7	90.0	13.1	86.5	17.2	90.0	12.3
Louisiana	98.1	7.2	58.2	9.8	60.9	6.0	74.1	5.4
Maine	100.0	97.9	100.0	97.9	100.0	97.9	100.0	97.9
Maryland	42.9	1.6	50.9	5.1	54.7	3.7	65.6	0.7
Massachusetts	60.0	27.5	65.5	29.0	61.4	32.5	64.3	30.3
Michigan	58.3	9.6	64.3	12.1	65.2	12.6	69.5	13.5
Minnesota	96.1	38.9	96.2	48.8	93.3	37.4	91.9	45.0
Mississippi	NA	NA	NA	NA	94.8	38.5	NA	NA
Missouri	82.0	17.4	83.3	21.5	85.4	24.0	85.2	23.7
Montana	79.4	2.2	83.1	3.5	83.1	4.3	88.3	4.7
Nebraska	71.5	21.3	77.3	24.0	78.0	23.2	79.9	30.1
Nevada	73.2	5.8	75.9	7.1	79.8	15.3	77.3	7.2
New Hampshire	96.2	47.0	96.1	39.1	96.2	37.2	96.4	30.4
New Jersey	55.2	29.2	62.4	29.5	62.1	34.6	59.4	31.7
New Mexico	58.2	6.3	67.3	1.5	64.4	1.8	71.5	8.3
New York	58.1	10.1	NA	10.1	NA	NA	NA	NA
North Carolina	90.6	31.2	91.1	26.6	93.1	27.3	93.4	27.6
North Dakota	80.0	25.3	87.0	32.1	84.9	33.3	89.1	36.1
Ohio	53.9	2.7	60.1	3.2	60.2	4.7	60.5	4.5
Oklahoma	75.0	4.9	77.7	5.2	83.2	5.2	81.1	6.3
Oregon	NA	NA	NA	NA	99.2	15.3	99.3	19.7
Pennsylvania	NA	13.3	57.7	14.2	57.2	15.2	58.7	16.3
Rhode Island	NA	41.2	64.7	49.9	71.6	38.5	64.5	39.7
South Carolina	98.4	86.0	98.2	84.9	98.4	85.4	98.1	85.8
South Dakota	93.7	56.2	85.6	37.9	85.7	45.9	86.5	45.2
Tennessee	75.8	29.3	93.1	28.1	87.8	25.5	NA	NA
Texas	59.8	14.5	61.3	15.2	71.6	15.5	68.3	12.3
Utah	82.5	7.9	81.2	8.6	89.1	8.5	85.7	7.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	70.9	11.2	73.4	19.2	76.7	14.6	74.4	18.7
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	50.3	5.8	51.9	6.2	29.9	14.9	56.0	6.3
Wisconsin	72.9	19.3	77.6	23.4	80.3	23.8	85.4	26.0
Wyoming	91.3	R3.4	87.4	NA	80.3	NA	NA	R1.5
Total	67.0	15.0	71.6	16.5	70.5	15.3	72.3	R14.9

See footnotes at end of table.

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

State	1997							
	Total		December		November		October	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	R56.8	R18.4	75.3	21.8	61.7	20.2	42.8	18.2
Alaska	R54.3	R97.8	54.1	100.0	51.7	100.0	52.1	100.0
Arizona	R84.5	R25.8	85.2	33.8	83.2	32.0	81.1	31.0
Arkansas	R93.9	R10.6	95.7	10.5	89.9	11.2	92.2	10.0
California	R50.2	R9.8	54.4	9.9	49.1	7.9	41.6	6.1
Colorado	NA	NA	R94.5	NA	NA	NA	R89.4	R29.9
Connecticut	R81.8	R66.5	76.9	62.9	R71.0	R67.0	68.5	66.5
Delaware	R100.0	R29.7	100.0	25.8	100.0	26.3	100.0	29.0
District of Columbia	R58.5	—	60.8	—	60.4	—	44.5	—
Florida	R96.6	R6.6	94.7	5.7	95.2	5.5	96.7	6.0
Georgia	R88.0	R16.9	90.6	22.7	87.3	18.3	84.5	20.6
Hawaii	R100.0	—	100.0	—	100.0	—	100.0	—
Idaho	R86.1	R2.2	86.6	2.0	83.2	1.9	76.4	1.6
Illinois	R53.3	R9.9	51.1	10.7	51.5	8.2	49.1	7.1
Indiana	R79.7	R13.3	85.7	14.2	91.5	19.2	87.4	12.2
Iowa	R87.2	R7.7	88.8	8.4	84.3	12.0	79.4	10.3
Kansas	R62.2	R7.7	55.9	4.3	56.7	5.5	66.3	5.5
Kentucky	R89.3	R15.5	90.6	14.2	89.2	14.4	89.3	14.9
Louisiana	R98.3	R8.1	98.0	6.3	97.4	7.4	98.4	7.0
Maine	R100.0	R91.4	100.0	89.7	100.0	92.2	100.0	89.4
Maryland	R64.5	R6.1	61.1	0.9	37.4	41.7	50.5	5.5
Massachusetts	R60.4	R18.7	66.2	31.6	60.0	32.2	46.0	25.9
Michigan	R62.8	R6.4	64.7	11.8	63.9	9.3	53.3	4.2
Minnesota	R98.5	R39.7	98.4	40.0	99.1	42.0	98.6	38.0
Mississippi	NA	NA	94.4	38.3	93.3	35.4	89.5	37.5
Missouri	R79.9	R21.3	82.7	22.9	78.3	19.9	68.6	19.6
Montana	R90.8	R3.1	92.7	3.8	90.4	2.8	87.9	2.3
Nebraska	R70.4	R21.5	74.1	20.4	68.9	34.2	46.6	17.4
Nevada	R71.3	R1.9	72.6	6.9	67.9	5.9	65.9	5.5
New Hampshire	R93.4	R49.3	94.0	32.4	89.1	34.2	85.7	44.2
New Jersey	R66.1	R48.8	62.6	32.9	58.9	32.2	57.7	27.7
New Mexico	R66.9	R14.2	75.5	16.3	70.9	14.1	57.2	9.5
New York	R57.5	R6.3	59.8	8.3	56.6	7.7	49.3	8.1
North Carolina	R94.1	R40.4	95.5	30.7	99.4	78.1	98.2	68.8
North Dakota	R88.2	R38.9	84.8	37.3	90.8	35.6	84.0	26.1
Ohio	R64.6	R3.9	66.3	5.1	66.5	4.2	54.1	1.8
Oklahoma	R85.1	R4.6	85.5	5.4	78.5	4.3	75.7	3.1
Oregon	R98.5	R16.5	98.4	16.0	98.4	14.5	97.5	14.5
Pennsylvania	R61.9	R13.8	62.4	12.3	61.9	13.9	48.6	12.7
Rhode Island	R80.5	R17.4	64.0	36.0	80.7	41.2	71.1	39.9
South Carolina	R98.0	R84.1	97.6	81.5	100.0	86.6	99.9	87.5
South Dakota	R83.3	R24.0	86.1	34.2	84.0	37.5	68.3	17.8
Tennessee	NA	NA	90.8	24.2	92.5	38.9	86.4	26.8
Texas	R60.4	NA	66.3	12.9	61.5	12.1	59.4	13.9
Utah	R83.2	R9.2	86.1	8.5	83.1	9.8	80.2	9.2
Vermont	R100.0	R100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	R76.9	R11.8	76.7	14.4	88.7	21.2	68.1	13.5
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	R51.3	R12.1	55.6	11.1	50.3	13.8	35.6	13.2
Wisconsin	R80.8	R28.5	82.1	27.9	84.7	28.9	67.9	25.7
Wyoming	R73.4	R1.8	92.7	1.9	79.4	1.3	79.7	2.0
Total	R69.3	R16.1	72.0	15.1	R67.3	R16.2	R61.6	15.2

See footnotes at end of table.

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

State	1997							
	September		August		July		June	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	33.1	17.6	25.1	17.4	22.8	17.3	49.5	17.2
Alaska	49.7	100.0	44.8	92.8	49.7	91.4	50.3	99.0
Arizona	83.9	30.3	78.7	30.1	79.7	31.3	82.7	18.7
Arkansas	90.9	8.7	91.4	7.9	89.9	9.3	90.7	10.2
California	40.9	9.9	41.5	7.7	45.6	7.8	48.2	8.9
Colorado	R92.1	R26.1	R86.3	R25.1	R88.9	R35.1	R94.4	R27.2
Connecticut	74.9	65.5	80.1	62.1	R75.9	63.5	R79.6	63.7
Delaware	100.0	25.7	100.0	27.5	100.0	27.5	100.0	28.2
District of Columbia	35.5	—	38.8	—	43.9	—	46.7	—
Florida	96.9	6.1	97.3	6.9	96.9	6.3	97.6	7.5
Georgia	81.6	9.1	80.1	15.7	79.1	17.4	82.7	13.4
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	82.5	1.7	82.9	1.4	83.2	5.2	83.3	2.3
Illinois	46.7	10.4	39.4	5.3	45.8	3.4	54.8	14.7
Indiana	75.4	8.4	74.7	7.8	72.4	9.0	39.6	9.2
Iowa	77.2	5.9	84.5	6.5	75.0	5.3	90.1	5.1
Kansas	50.3	6.1	44.9	6.7	46.8	5.1	56.1	4.6
Kentucky	83.9	13.0	79.1	11.5	82.9	12.4	87.7	14.1
Louisiana	98.1	7.1	99.2	8.0	98.8	7.9	98.6	8.3
Maine	100.0	87.8	100.0	88.6	100.0	100.0	100.0	88.5
Maryland	49.0	2.0	54.3	4.9	57.5	3.4	56.5	6.7
Massachusetts	41.4	28.0	39.1	22.4	43.6	23.6	46.1	32.3
Michigan	38.8	3.1	39.8	3.9	54.7	5.8	44.8	5.4
Minnesota	97.7	41.5	98.3	34.2	98.4	35.6	97.0	37.4
Mississippi	NA	NA	NA	NA	NA	NA	91.5	35.9
Missouri	68.4	22.5	68.7	16.7	68.9	18.6	71.5	18.5
Montana	85.5	1.9	87.4	2.0	90.4	1.7	88.7	2.2
Nebraska	59.0	21.0	64.8	14.4	64.4	34.1	61.4	16.1
Nevada	62.9	4.6	63.1	7.0	73.2	10.2	61.0	9.9
New Hampshire	86.9	48.4	88.1	47.1	87.0	51.4	90.7	55.4
New Jersey	58.1	28.1	59.0	44.0	55.6	26.5	60.8	26.3
New Mexico	52.9	14.6	53.2	18.3	53.5	18.5	43.1	8.1
New York	49.8	6.2	44.0	7.8	49.6	17.7	49.9	7.2
North Carolina	86.4	21.2	84.4	24.2	84.6	20.4	97.5	40.8
North Dakota	74.7	19.4	68.8	28.1	46.5	34.6	80.8	28.9
Ohio	49.5	1.5	48.4	2.0	46.5	2.0	49.2	1.9
Oklahoma	75.5	3.2	73.6	3.0	79.0	3.8	79.2	2.1
Oregon	98.0	13.2	98.3	12.4	98.3	13.8	98.1	17.3
Pennsylvania	54.6	12.1	56.7	12.5	54.5	10.8	54.7	13.1
Rhode Island	68.7	33.6	67.9	39.6	71.1	41.7	72.4	48.1
South Carolina	98.5	84.8	96.4	82.2	99.9	89.1	91.0	89.0
South Dakota	59.9	14.0	72.1	12.7	78.3	12.0	83.7	10.7
Tennessee	82.4	18.2	80.4	19.8	80.7	24.4	NA	NA
Texas	47.0	NA	52.3	14.1	50.6	14.2	56.6	19.1
Utah	74.8	12.0	71.7	7.9	72.8	8.2	77.0	9.4
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	67.6	7.4	64.6	4.9	62.9	5.5	65.3	8.1
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	29.8	11.8	21.6	11.2	23.2	11.8	29.1	11.3
Wisconsin	60.9	22.8	53.8	21.3	66.1	20.4	58.8	19.9
Wyoming	79.2	R2.3	75.8	2.1	28.8	2.1	52.1	1.9
Total	R57.5	13.8	R55.8	13.9	R58.2	14.1	R60.0	15.9

See footnotes at end of table.

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

State	1997							
	May		April		March		February	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	55.5	18.0	59.3	17.3	76.2	17.9	79.7	19.5
Alaska	54.6	99.0	56.9	98.8	57.5	98.6	58.8	97.9
Arizona	86.1	18.1	83.8	20.2	86.5	20.1	87.8	22.6
Arkansas	91.4	11.3	93.5	10.9	94.9	12.1	96.6	13.6
California	49.5	13.0	51.6	10.6	54.5	11.0	58.5	11.3
Colorado	NA	R25.5	NA	R30.1	NA	NA	NA	NA
Connecticut	79.7	65.6	87.1	68.2	87.0	68.2	90.2	78.8
Delaware	100.0	34.4	100.0	35.6	100.0	32.7	100.0	34.0
District of Columbia	53.7	—	100.0	—	59.9	—	62.8	—
Florida	97.7	6.9	97.8	7.3	97.0	7.1	96.6	8.7
Georgia	83.9	12.9	87.2	15.9	88.9	15.7	92.7	21.1
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	86.5	2.5	86.1	2.1	87.8	2.1	89.7	2.2
Illinois	47.4	13.8	53.1	8.4	54.4	10.3	54.3	9.8
Indiana	38.3	9.6	82.1	10.6	86.5	12.7	93.0	19.8
Iowa	83.2	5.4	90.3	7.2	88.5	7.4	89.4	7.2
Kansas	58.3	13.1	66.1	10.8	60.1	10.7	65.7	11.6
Kentucky	85.3	15.7	88.2	14.9	89.6	15.5	90.8	19.4
Louisiana	98.5	9.0	98.1	7.6	98.6	10.7	98.4	8.6
Maine	100.0	91.2	100.0	91.3	100.0	91.8	100.0	100.0
Maryland	62.3	12.5	76.8	1.6	79.8	17.3	82.8	14.7
Massachusetts	67.1	41.7	72.2	38.5	70.9	34.4	67.3	36.8
Michigan	57.7	7.8	65.3	10.4	66.4	12.8	69.4	14.2
Minnesota	97.8	39.0	98.0	41.6	99.0	42.2	98.7	45.0
Mississippi	96.7	39.8	92.4	35.4	95.8	36.5	96.3	37.6
Missouri	76.9	24.1	80.7	16.7	83.9	27.3	79.9	19.5
Montana	90.2	2.1	91.1	4.5	90.4	4.1	93.0	4.1
Nebraska	68.2	20.5	72.3	17.1	70.8	20.2	87.9	25.6
Nevada	65.7	7.4	69.2	8.0	78.1	7.3	79.7	9.1
New Hampshire	91.6	R59.1	92.0	62.3	94.0	53.6	99.1	52.1
New Jersey	56.5	28.5	64.0	36.9	68.5	30.3	93.5	36.0
New Mexico	59.5	10.9	58.1	2.8	70.5	3.9	72.5	2.1
New York	54.9	8.5	60.6	9.1	63.4	9.9	65.8	10.0
North Carolina	89.3	21.7	87.5	22.4	91.6	30.2	95.9	39.6
North Dakota	88.7	36.5	91.9	39.4	91.4	59.4	93.9	49.5
Ohio	58.0	3.2	64.8	3.3	69.2	5.5	68.5	5.6
Oklahoma	82.0	4.1	86.3	3.7	88.1	5.9	90.5	8.7
Oregon	98.5	16.7	98.5	20.3	98.8	21.0	98.9	22.5
Pennsylvania	48.0	13.3	64.7	14.1	64.3	15.4	69.8	14.9
Rhode Island	80.8	48.5	88.5	55.8	82.2	61.7	91.7	45.9
South Carolina	100.0	87.0	95.2	77.7	97.4	80.3	97.9	78.2
South Dakota	80.7	17.3	85.7	22.6	86.3	26.7	85.7	30.4
Tennessee	86.7	29.6	90.4	28.1	NA	NA	92.5	28.7
Texas	56.5	18.1	59.2	20.1	60.5	17.3	68.1	17.1
Utah	78.8	9.0	83.8	9.2	83.0	6.7	87.2	10.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	72.2	6.5	72.6	12.2	77.0	13.2	81.6	6.8
Washington	80.7	21.0	83.1	26.8	86.0	27.3	86.7	26.8
West Virginia	43.8	11.4	49.6	7.1	60.3	19.7	67.8	14.8
Wisconsin	75.5	27.6	81.8	25.6	87.4	34.0	87.3	35.9
Wyoming	77.8	1.8	62.1	1.9	74.0	1.8	82.1	1.9
Total	63.8	16.6	70.8	16.9	73.0	17.4	76.9	17.7

See footnotes at end of table.

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

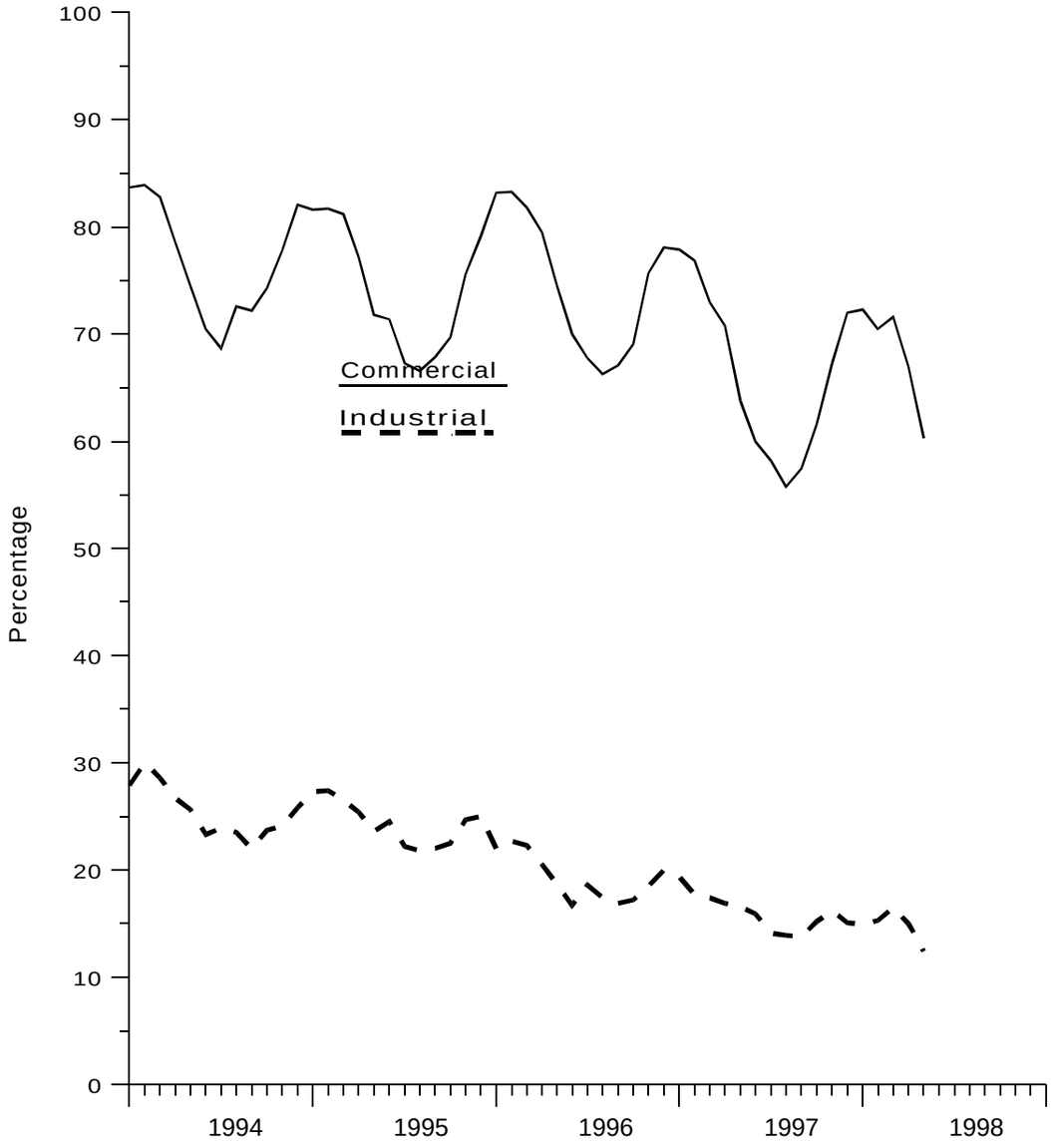
State	1997		1996					
	January		Total		December		November	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	77.7	17.7	81.1	22.6	80.7	22.4	73.2	22.6
Alaska	60.2	97.1	63.4	64.3	61.8	68.0	58.2	71.3
Arizona	87.4	18.2	85.2	19.7	84.1	19.9	84.1	18.2
Arkansas	96.1	12.9	95.0	13.3	95.7	13.8	94.1	13.6
California	58.0	11.3	54.9	11.2	56.1	9.9	57.9	10.8
Colorado	NA	R19.6	93.2	7.4	94.3	7.1	92.8	8.3
Connecticut	90.1	76.0	87.0	84.6	87.9	80.1	84.0	74.8
Delaware	100.0	28.8	100.0	37.3	100.0	30.8	100.0	32.5
District of Columbia	67.9	—	70.5	—	65.3	—	55.1	—
Florida	96.1	9.1	97.1	13.4	96.1	12.5	97.0	11.1
Georgia	93.7	20.0	94.1	32.2	93.2	31.6	92.2	26.7
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	87.8	1.9	86.6	1.4	87.6	2.6	84.9	0.5
Illinois	62.0	14.6	53.9	13.7	56.1	22.5	53.0	13.7
Indiana	93.7	20.1	96.3	16.6	97.4	21.4	96.1	16.3
Iowa	90.3	9.6	87.7	9.0	87.2	11.7	86.6	18.4
Kansas	86.2	8.1	71.7	7.7	71.6	8.3	82.4	6.9
Kentucky	91.9	22.1	90.8	27.1	91.9	24.1	88.9	21.5
Louisiana	97.9	9.5	98.3	10.6	98.0	11.3	98.3	NA
Maine	100.0	100.0	100.0	91.0	100.0	90.2	100.0	91.5
Maryland	84.5	2.8	91.9	11.7	93.2	19.7	92.2	2.1
Massachusetts	67.3	34.3	74.7	41.9	68.9	33.8	62.5	45.3
Michigan	69.2	14.0	66.9	12.5	70.2	15.8	67.2	12.7
Minnesota	98.6	37.3	96.2	41.3	95.6	44.5	94.8	44.1
Mississippi	96.9	38.4	97.4	41.7	96.9	44.1	96.7	44.8
Missouri	86.3	28.3	82.2	24.7	84.6	33.1	78.6	27.7
Montana	90.9	4.4	91.5	3.4	92.7	4.3	91.6	4.4
Nebraska	77.6	27.3	70.0	20.4	76.6	23.5	68.6	23.3
Nevada	77.2	8.3	74.2	7.2	74.9	7.8	70.8	7.4
New Hampshire	98.8	44.2	96.9	55.4	96.1	45.4	93.6	59.3
New Jersey	70.6	35.9	73.3	53.6	70.2	35.5	69.4	52.7
New Mexico	74.0	19.4	64.7	3.5	71.8	13.3	68.5	4.8
New York	66.3	11.8	77.0	14.7	NA	13.1	NA	11.4
North Carolina	100.0	90.1	96.5	59.4	99.0	91.6	92.0	49.7
North Dakota	93.4	43.3	88.0	26.5	91.0	43.9	89.7	49.6
Ohio	72.5	8.4	71.8	7.4	74.0	10.0	72.4	7.8
Oklahoma	90.7	7.4	84.5	6.6	87.6	7.1	82.1	7.6
Oregon	98.8	19.0	98.3	18.0	98.6	16.0	98.3	14.4
Pennsylvania	69.3	18.9	70.4	18.5	61.0	22.3	63.3	16.6
Rhode Island	89.6	38.1	91.8	16.9	89.1	12.4	87.3	17.4
South Carolina	100.0	86.8	99.0	85.8	100.0	89.3	97.4	85.8
South Dakota	86.9	31.4	82.7	24.6	82.8	23.5	80.6	24.2
Tennessee	94.0	35.9	94.3	47.0	95.3	42.8	92.8	40.6
Texas	71.1	19.2	83.5	20.2	87.1	17.5	84.2	16.5
Utah	86.2	10.2	81.9	9.0	84.4	9.7	81.2	9.3
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	87.5	7.9	85.3	18.0	88.1	22.1	84.8	21.4
Washington	87.8	26.7	85.9	24.4	87.4	27.2	84.6	22.2
West Virginia	67.8	14.4	56.3	14.3	71.3	14.4	54.5	14.8
Wisconsin	88.8	37.6	91.6	36.4	91.8	34.5	90.9	34.6
Wyoming	85.0	1.5	85.9	2.9	69.0	3.1	81.1	0.8
Total	77.9	19.4	77.6	19.4	78.1	20.0	75.7	18.5

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.

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

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

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 Mex ico, 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, May 1998

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	97	958	3,818	3,938	0.60	0.33	0.67
Alaska	0	0	0	0	—	—	—
Arizona	48	45	0	66	0.17	0.09	—
Arkansas	0	0	0	0	—	—	—
California	307	82	2,590	2,610	0.05	0.09	0.53
Colorado	2,877	1,630	376	3,328	0.62	0.70	2.86
Connecticut	0	0	0	0	—	—	—
Delaware	0	0	0	0	—	—	—
District of Columbia	0	0	0	0	—	—	—
Florida	131	366	1,225	1,285	1.15	0.10	0.24
Georgia	427	280	1,974	2,039	1.30	0.60	2.01
Hawaii	0	0	0	0	—	—	—
Idaho	0	0	0	0	—	—	—
Illinois	1,437	719	1,472	2,180	0.85	3.25	0.67
Indiana	323	761	1,515	1,726	0.30	0.09	0.42
Iowa	92	541	2,789	2,842	0.25	0.60	0.09
Kansas	6,884	6,722	19,677	21,903	1.48	9.21	13.23
Kentucky	285	243	1,176	1,234	0.30	0.36	4.27
Louisiana	249	2,646	3,140	4,113	0.69	8.81	0.02
Maine	NA	NA	NA	NA	NA	NA	NA
Maryland	6	12	83	84	—	0.03	0.30
Massachusetts	NA	168	NA	NA	NA	0.18	NA
Michigan	0	0	0	0	—	—	—
Minnesota	1,719	382	628	1,870	1.50	0.20	0.13
Mississippi	NA	NA	NA	NA	NA	NA	NA
Missouri	124	226	338	425	0.11	0.21	2.96
Montana	NA	NA	NA	NA	NA	NA	NA
Nebraska	39	33	1,472	1,473	0.09	0.13	0.93
Nevada	0	0	0	0	—	—	—
New Hampshire	0	NA	NA	NA	—	NA	NA
New Jersey	0	0	0	0	—	—	—
New Mexico	393	322	737	895	2.68	1.75	—
New York	NA	NA	NA	NA	NA	NA	NA
North Carolina	140	85	260	307	0.02	0.01	0.05
North Dakota	0	0	0	0	—	—	—
Ohio	954	322	1,632	1,917	0.44	0.27	2.12
Oklahoma	458	36	880	992	0.76	0.72	0.23
Oregon	0	0	0	0	—	—	—
Pennsylvania	823	63	1,445	1,664	0.16	0.07	0.11
Rhode Island	NA	NA	NA	NA	NA	NA	NA
South Carolina	127	64	486	507	0.33	0.31	0.09
South Dakota	0	0	0	0	—	—	—
Tennessee	1,090	1,069	1,495	2,136	2.89	2.61	1.50
Texas	84	3,584	10,146	10,760	0.06	0.96	0.31
Utah	0	0	0	0	—	—	—
Vermont	0	0	0	0	—	—	—
Virginia	179	209	211	347	0.50	0.16	0.71
Washington	NA	NA	NA	NA	NA	NA	NA
West Virginia	NA	654	NA	NA	NA	4.30	NA
Wisconsin	1,073	722	403	1,354	0.22	0.52	0.17
Wyoming	6	83	22	86	0.28	0.36	1.37
Total	8,155	8,655	23,697	26,514	0.21	0.30	0.34

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

July 1995

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

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.)

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

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

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

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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.