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Preface

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

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

The *NGM* highlights activities, events, and analyses of interest to public and private sector organizations associated with the natural gas industry. Volume and price data are presented each month for natural gas production, distribution, consumption, and interstate pipeline activities. Producer-related activities and underground storage data are also reported. From time to time, the *NGM* features articles designed to assist readers in using and interpreting natural gas information.

The data in this publication are collected on surveys conducted by the EIA to fulfill its responsibilities for gathering and reporting energy data. Some of the data are collected under the authority of the Federal Energy Regulatory Commission (FERC), an independent commission within the DOE, which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. Geographic coverage is the 50 States and the District of Columbia.

Explanatory Notes supplement the information found in tables of the report. A description of the data collection surveys that support the *NGM* is provided in the Data Sources section. A glossary of the terms used in this report is also provided to assist readers in understanding the data presented in this publication.

All natural gas volumes are reported at a pressure base of 14.73 pounds per square inch absolute (psia) and at 60 degrees Fahrenheit. Cubic feet are converted to cubic meters by applying a factor of 0.02831685.

Common Abbreviations Used in the Natural Gas Monthly

AGA	American Gas Association
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

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Retail Unbundling

This special report provides a brief summary of the status of retail unbundling programs (also known as "customer choice" programs) for residential natural gas customers in various States, as presented in the Energy Information Administration (EIA) web site at: <http://www.eia.doe.gov/oil_gas/natural_gas/restructure/restructure.html>.

State programs to allow residential natural gas users to select their gas suppliers are spreading throughout the country. However, the availability, characteristics, and participation rates of these "customer choice" programs vary widely across States. Three States (New Mexico, New York, and West Virginia) allow all residential consumers to choose their own natural gas suppliers, while eight States (California, Colorado, Georgia, Maryland, Massachusetts, New Jersey, Ohio, and Pennsylvania) have begun to implement statewide programs (Figure SR1). Another nine States (Illinois, Indiana, Michigan, Montana, Nebraska, South Dakota, Virginia, Wisconsin, and Wyoming) and the District of Columbia have pilot or partial unbundling programs in place, and Delaware will start its pilot in November 1999. An additional 11 States (Iowa, Kansas, Kentucky, Maine, Minnesota, Nevada, New Hampshire, Oklahoma, South Carolina, Texas, and Vermont) are considering action on customer choice, while the 18 other States have thus far taken no action.

Consumer reaction to these choice programs has been mixed (Table SR1). In some States, such as Nebraska, 97 percent of the eligible residential and commercial customers are electing to choose their own suppliers. In other States, such as Indiana and New York, participation is 2 percent or less of those eligible. Large commercial and industrial consumers have had the option of purchasing the natural gas commodity separately from transportation and other services for many years. State regulators and lawmakers, who are responsible for designing and implementing retail restructuring programs, have moved more slowly in implementing choice programs for residential and small-volume commercial customers, traditionally known as "core" consumers, until they could ensure reliable service. In several cases, a local distribution company has initiated the development of a choice program for its customers.

Figure SR1. Status of Retail Choice Programs for Residential Natural Gas Customers by State, July 1999

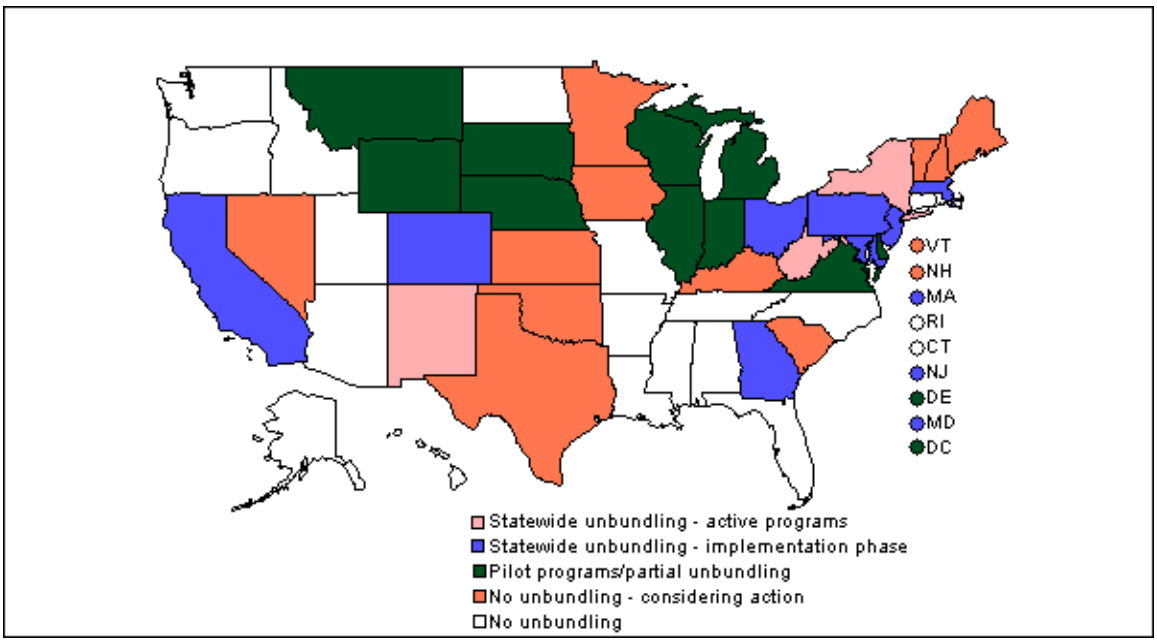


Table SR1. Status of Retail Choice Programs for Residential Customers as of July 1999

Category/State	Number of Residential Customers					
		Eligible		Participating		
	Total 1997	Total	Percent of 1997 Total	Total	Percent of Eligible	Percent of 1997 Total
Statewide Unbundling: Active Programs						
New Mexico	443,167	443,167	100	0	0	0
New York	4,077,385	4,077,385	100	58,488	1.4	1.4
West Virginia	362,432	362,432	100	58	0.02	0.02
Subtotal	4,882,984	4,882,984	100	58,546	1.2	1.2
Statewide Unbundling: Implementation Phase						
Georgia	1,553,948	1,262,505	81.2	839,000	66.5	54.0
Maryland	890,195	384,362	43.2	83,775	21.8	9.4
Massachusetts	1,204,494	83,000	6.9	18,767	22.6	1.6
New Jersey	2,193,629	54,100	2.5	54,100	100	2.5
Ohio	3,041,948	1,716,873	56.4	456,058	26.6	15.0
Subtotal	8,884,214	3,500,840	39.4	1,451,700	41.5	16.3
Pilot Programs/Partial Unbundling						
D.C.	135,000	135,000	100	7,500	5.6	5.6
Illinois	3,521,707	27,000	0.8	8,100	30.0	0.2
Indiana	1,509,142	610,000	40.4	6,004	1.0	0.4
Michigan	2,859,483	NA	--	192,660	–	6.7
Nebraska	444,970	76,716	17.2	74,000	96.5	16.6
Virginia	812,866	53,000	6.5	16,000	30.2	2.0
Wisconsin	470,045	20,000	4.3	1,526	7.6	0.3
Subtotal	9,753,213	*921,716	*13.4	305,790	*12.3	3.1
Total Programs	**23,520,411**	***9,305,540**	***45.0**	**1,816,036**	***17.5**	**7.7**
U.S. 1997 Total	**56,186,958**	--	--	--	--	--

*Excludes Michigan.

NA = Not available. -- = Not applicable.

Note: Three other States (California, Colorado, and Pennsylvania) are in the implementation phase of statewide unbundling, but eligibility and participation data are not available. Also, four other States (Delaware (pilot begins in November 1999), Montana, South Dakota, and Wyoming) have pilot programs or partial unbundling, but residential data are not available.

Sources: **Total 1997:** Energy Information Administration, *Natural Gas Annual 1997* (October 1998). **Eligibility and Participation:** State public utility commissions (June 1999).

To find out more about the status of choice programs for residential natural gas customers in each of the 50 States and the District of Columbia, visit the EIA web site at <http://www.eia.doe.gov/oil_gas/natural_gas/restructure/restructure.html>. The site also includes the most recent (1997) EIA annual price and consumption data for the residential and commercial sectors and average city gate prices. When possible, these data are compared with information obtained from the State public utility commissions or local distribution companies to provide information on the level of participation in the customer choice programs. More detailed information about the various State programs will be added to the web site at a later date.

EIA also has a web site that provides information about various aspects of the restructuring and deregulation of the electric power industry. For information on developments by State in the electric power industry, visit the EIA web site at: <http://www.eia.doe.gov/cneaf/electricity/page/restructure.html>.

Highlights

Overview

This issue of the *Natural Gas Monthly* includes the special report, "Retail Unbundling." The report summarizes information on the status of retail natural gas unbundling programs, also known as "customer choice" programs, at the State level that is now available on the Energy Information Administration's home page. Data estimates provided in this issue of the *Monthly* run through July 1999 for many natural gas data series at the national level. Estimates of natural gas prices are available through April 1999 for most series. Highlights of the most recent data contained in this issue are:

Dry natural gas production for January through July 1999 is estimated to be 108 billion cubic feet (1 percent) lower than in 1998 during the same period, but net imports are 199 billion cubic feet (12 percent) higher than last year.

End-use consumption of natural gas for January through July 1999 is estimated to be 197 billion cubic feet (2 percent) higher than in the same period of 1998.

The amount of working gas in underground storage facilities at the end of July 1999 is at the highest level for July since 1991.

The national average natural gas wellhead price for January through April 1999 is estimated to be $1.79 per thousand cubic feet, $0.28 (14 percent) lower than for the same period in 1998.

Supply

Cumulative dry natural gas production through July 1999 has been near the 1998 level while net imports have increased, thus meeting the small increase seen in demand for natural gas. Cumulative dry production for January through July 1999 is estimated to be 108 billion cubic feet (1 percent) lower than in 1998 for the same period (Table 1, Figure HI1). Estimated production during July 1999 is 1,576 billion cubic feet, the same as in July 1998. Monthly production early in 1999 was from 2 to 3 percent below the monthly levels of 1998, but has been within 0.5 percent of the 1998 levels since March. Cumulative net imports of natural gas are estimated to be 199 billion cubic feet (12 percent) higher in 1999 than in 1998. During July 1999, net imports are estimated to be 280 billion cubic feet compared with 251 billion cubic feet in July 1998 (Table 2). Thus far, net imports during 1999 have been from 10 to 13 percent higher than in 1998 each month.

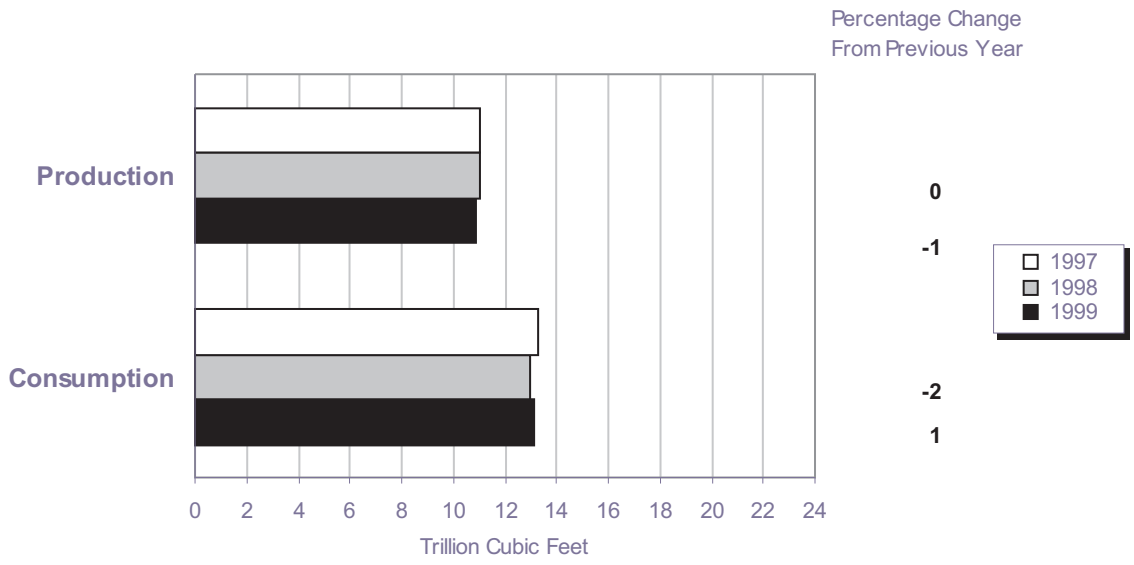
Net injections of natural gas into underground storage facilities are estimated to be 290 billion cubic feet in July 1999, which is 8 percent lower than in July 1998 (Table 10). The level of working gas at the end of July 1999 is estimated to be 2,467 billion cubic feet (Figure HI2). This is 2 percent above the level at the end of July 1998 and is the highest level of working gas for July since 1991 (2,771 billion cubic feet).

End-Use Consumption

Cumulative end-use consumption of natural gas for January through July 1999 is estimated to be higher, but within 2 percent of the level in 1998. Residential consumption has increased an estimated 91 billion cubic feet (3 percent) during the period (Figure HI3), while commercial consumption has increased 95 billion cubic feet (5 percent). Estimates for the industrial sector show that consumption for January through July 1999 is 109 billion cubic feet (2 percent) lower than in 1998. Estimates of electric utility consumption of natural gas are only available through April 1999. For the first 4 months of 1999, electric utilities have increased natural gas consumption by 104 billion cubic feet (15 percent) compared with 1998.

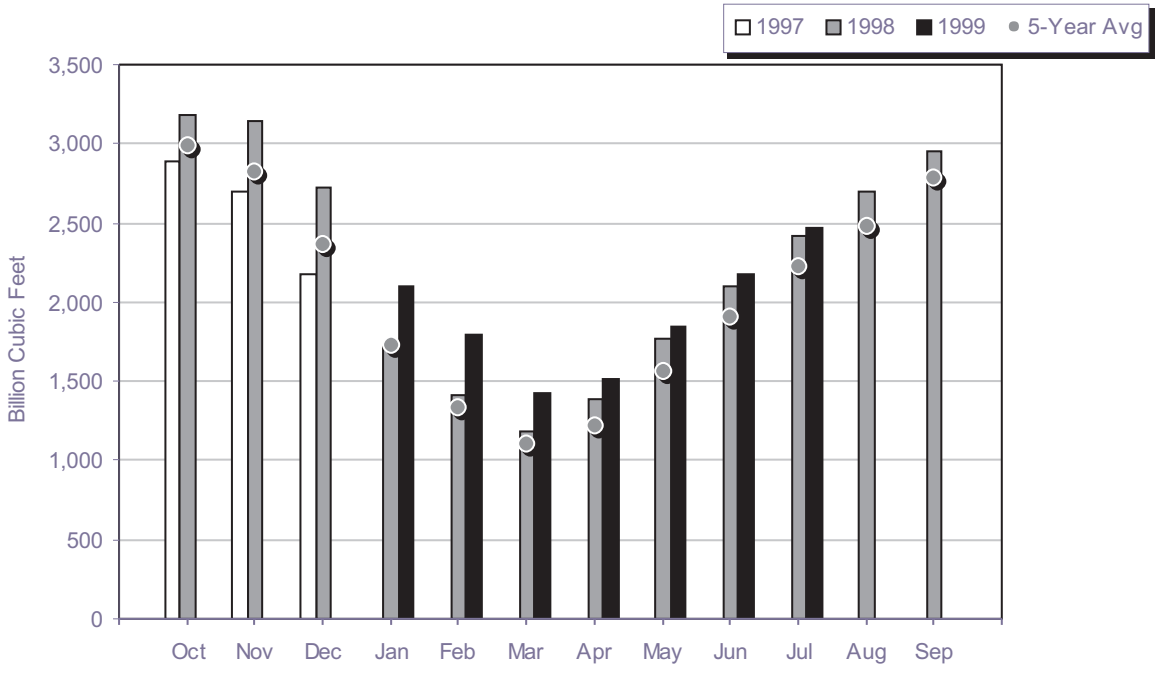
Residential consumption of natural gas during the month of July 1999 is estimated to be 104 billion cubic feet, 26 billion cubic feet (20 percent) lower than in July 1998 (Table 3). Commercial consumption is estimated to be 154 billion cubic feet, 5 billion cubic feet

Figure HI1. Natural Gas Production and Consumption, January-July, 1997-1999



Source: Table 2.

Figure HI2. Working Gas in Underground Storage in the United States, 1997-1999



Note: The 4-year average is calculated using the latest available monthly data. For example, the December average is calculated from December storage levels for 1994 to 1998 while the January average is calculated from January levels for 1995 to 1999. Data are reported as of the end of the month, thus October data represent the beginning of the heating season.

Source: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural

(3 percent) higher than in July 1998. And industrial consumption in July 1999 is estimated to be 665 billion cubic feet, 40 billion cubic feet (6 percent) lower than in July 1998. Electric utility consumption of natural gas in April 1999 is estimated to be 256 billion cubic feet, 66 billion cubic feet (35 percent) higher than in April 1998.

Prices

Estimates of cumulative average natural gas prices in 1999 continue to be below those of 1998. The average wellhead price for January through April 1999 is $1.79 per thousand cubic feet, $0.28 (14 percent) below that of the same period in 1998 (Table 4, Figure HI4). The most recent monthly wellhead price estimate is $1.93 per thousand cubic feet for April 1999. Monthly average wellhead prices have not exceeded $2.00 since July 1998.

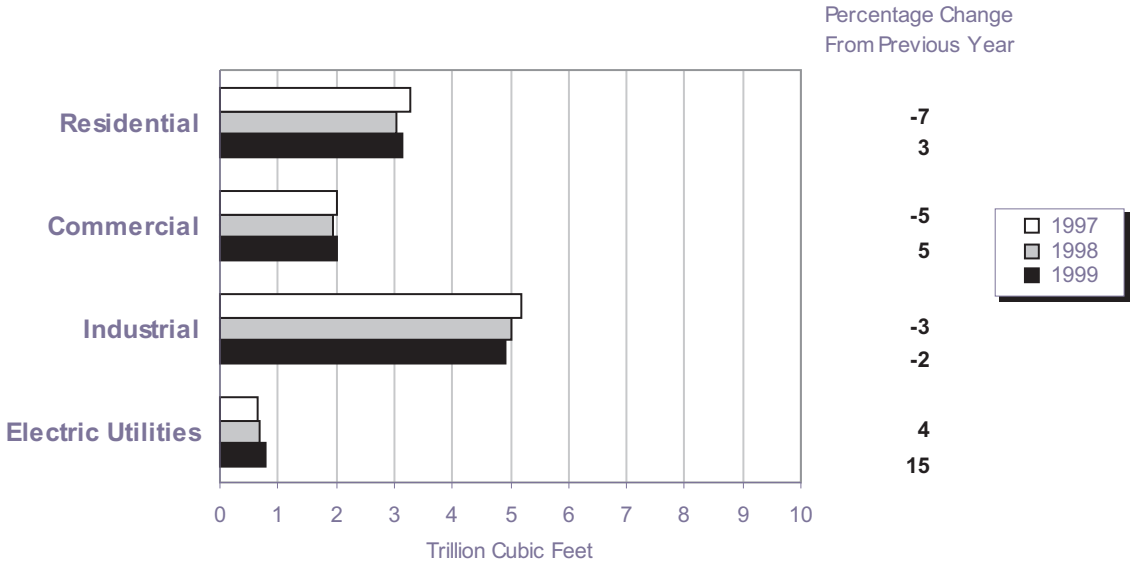
Cumulative average prices in both the residential and commercial sectors are $0.33 below those of 1998. The estimated residential price paid for natural gas for January through April 1999 is $6.12 per thousand cubic feet and the commercial price is $5.20 per thousand cubic feet.[1] An even larger decrease is estimated for the industrial sector. Cumulatively, industrial users paid an estimated $2.92 per thousand cubic feet through April 1999, $0.54 (16 percent) less than in 1998.

An estimate of the average price paid for natural gas by electric utilities is now available for the first quarter of 1999. The estimate of $2.20 per thousand cubic feet is $0.36 (14 percent) below that of the first quarter of 1998.

More recently, high temperatures in the Midwest and East during July have spurred an increase in both the average spot and futures price on the nearby month contract at the Henry Hub. Demand for natural gas can increase during periods of hot weather because many electric utilities use natural gas to satisfy peak power demands caused by the increased use of air conditioning. Both the daily average spot price and the futures settlement price (for the August contract) at the Henry Hub exceeded $2.30 per million Btu during the last days of June 1999 (Figure HI5). However, by mid July, both were below $2.20 per million Btu. By July 21, both price series had reached $2.25 and then showed strong increases the next 2 days. The futures settlement price rose $0.28 per million Btu, or 12 percent, reaching $2.53 on July 23. The average spot price rose $0.18 per million Btu, or 8 percent, reaching $2.43 on July 23.

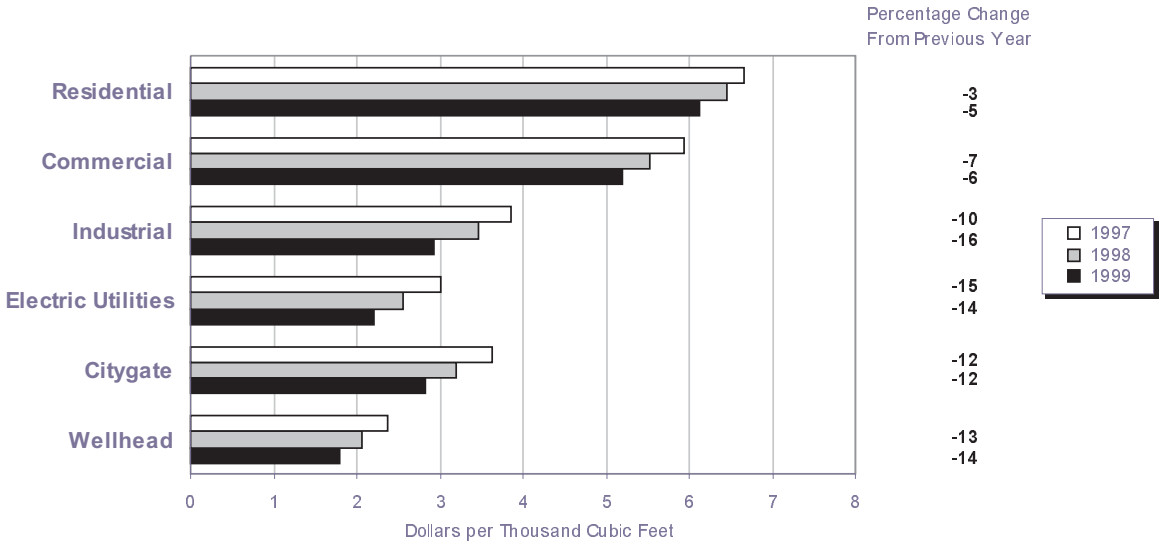
1 End-use prices in the residential, commercial, and industrial sectors are for onsystem gas sales only. While monthly onsystem sales are nearly 100 percent of residential deliveries, during 1999 they have ranged from 64 to 72 percent of commercial deliveries and only 15 to 17 percent of industrial deliveries (Table 4).

Figure HI3. Natural Gas Delivered to Consumers, January-July, 1997-1999



Note: Electric utilities reflect January-April deliveries.
Source: Table 3.

Figure HI4. Average Delivered and Wellhead Natural Gas Prices, January-April, 1997-1999



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 future 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 1is 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, 1993-1999

(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]
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 Total	**24,052**	**3,510**	**518**	**272**	**19,751**	**958**	**18,793**
1997							
January	2,089	305	50	25	1,709	83	1,626
February	1,905	289	46	22	1,549	75	1,474
March	2,103	311	51	23	1,720	83	1,636
April	1,993	285	48	22	1,639	80	1,559
May	2,041	268	50	22	1,702	83	1,619
June	1,952	275	47	18	1,612	78	1,534
July	2,020	272	51	23	1,674	81	1,593
August	2,022	279	52	21	1,671	81	1,590
September	1,988	285	50	21	1,632	79	1,553
October	2,057	307	51	20	1,678	81	1,597
November	1,999	302	52	19	1,626	79	1,547
December	2,044	314	52	22	1,655	80	1,575
Total	**24,213**	**3,492**	**599**	**256**	**19,866**	**964**	**18,902**
1998							
January	[E]2,116	[E]332	[E]46	[E]22	[E]1,717	[E]83	[E]1,633
February	[E]1,901	[E]294	[E]42	[E]18	[E]1,547	[E]75	[E]1,472
March	[E]2,083	[E]321	[E]45	[E]21	[E]1,696	[E]82	[E]1,613
April	[E]2,003	[E]306	[E]44	[E]21	[E]1,632	[E]79	[E]1,553
May	[E]2,063	[E]318	[E]43	[E]20	[E]1,682	[E]82	[E]1,600
June	[RE]1,996	[E]294	[E]44	[E]22	[RE]1,636	[E]79	[RE]1,557
July	[RE]2,019	[E]295	[E]45	[RE]23	[RE]1,656	[RE]80	[RE]1,576
August	[RE]2,038	[RE]291	[RE]45	[E]24	[RE]1,677	[RE]81	[RE]1,596
September	[RE]1,968	[RE]274	[E]44	[RE]22	[RE]1,628	[E]79	[RE]1,549
October	[RE]2,053	[RE]314	[E]44	[RE]22	[RE]1,672	[E]81	[RE]1,591
November	[RE]1,993	[RE]313	[E]45	[RE]23	[RE]1,612	[E]78	[RE]1,534
December	[RE]2,066	[RE]329	[E]44	[E]23	[RE]1,670	[E]81	[RE]1,589
Total	**[RE]24,297**	**[RE]3,682**	**[RE]531**	**[RE]261**	**[RE]19,824**	**[RE]961**	**[RE]18,862**
1999							
January	[RE]2,066	[RE]336	[E]44	[E]23	[RE]1,663	[RE]81	[RE]1,583
February	[RE]1,865	[RE]291	[E]41	[RE]20	[RE]1,512	[E]73	[RE]1,439
March	[RE]2,083	[RE]326	[RE]46	[RE]24	[RE]1,686	[E]82	[E]1,605
April	[RE]2,010	[E]318	[E]44	[RE]23	[E]1,625	[E]79	[E]1,546
May	[E]2,072	[E]325	[E]46	[E]23	[E]1,678	[E]81	[E]1,597
June(STIFS)	NA	NA	NA	NA	[E]1,629	[E]79	[E]1,550
July(STIFS)	NA	NA	NA	NA	[E]1,656	[E]80	[E]1,576
1999 YTD	NA	NA	NA	NA	**[E]11,451**	**[E]555**	**[E]10,896**
1998 YTD	**[E]14,180**	**[E]2,159**	**[E]309**	**[E]147**	**[E]11,565**	**[E]561**	**[E]11,004**
1997 YTD	**14,104**	**2,004**	**343**	**154**	**11,604**	**563**	**11,041**

[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 1993 through 1997 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: 1993-1997: Energy Information Administration (EIA), *Natural Gas Annual 1997.* January 1998 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

Table 2. Supply and Disposition of Dry Natural Gas in the United States, 1993-1999

(Billion Cubic Feet)

Year and Month	Dry Gas Production	Supplemental Gaseous Fuels[a]	Net Imports	Net Storage Withdrawals[b]	Balancing Item[c]	Consumption[d]
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 Total	**18,793**	**109**	**2,784**	**2**	**279**	**21,967**
1997						
January	1,626	12	266	709	-90	2,523
February	1,474	10	228	371	170	2,253
March	1,636	9	241	160	69	2,115
April	1,559	8	224	-61	64	1,795
May	1,619	8	232	-333	62	1,588
June	1,534	6	223	-379	67	1,451
July	1,593	7	225	-293	5	1,537
August	1,590	8	227	-334	28	1,518
September	1,553	6	226	-349	3	1,440
October	1,597	8	239	-218	-92	1,534
November	1,547	10	259	196	-116	1,895
December	1,575	11	246	553	-68	2,317
Total	**18,902**	**103**	**2,837**	**24**	**106**	**21,972**
1998						
January	[E]1,633	[E]12	267	466	36	2,414
February	[E]1,472	[E]10	237	300	92	2,110
March	[E]1,613	[E]11	244	242	22	2,132
April	[E]1,553	[E]9	235	-199	122	[R]1,721
May	[E]1,600	[E]8	240	-393	[R]62	[R]1,517
June	[RE]1,557	[E]7	236	-323	[R]1	[R]1,478
July	[RE]1,576	[E]9	251	-314	[R]70	[R]1,591
August	[RE]1,596	[E]9	244	-283	[R]13	[R]1,578
September	[RE]1,549	[E]9	255	-227	[R]-116	[R]1,470
October	[RE]1,591	[E]10	257	-255	[R]-115	[R]1,487
November	[RE]1,534	[E]11	243	34	[R]-108	[R]1,714
December	[RE]1,589	[E]12	267	435	[R]-162	[R]2,141
Total	**[RE]18,862**	**[E]117**	**2,977**	**-518**	**[R]-84**	**21,354**
1999						
January	[RE]1,583	[E]13	[R]295	623	[R]9	2,523
February	[RE]1,439	[E]10	[R]262	333	[R]66	[R]2,110
March	[E]1,605	[E]11	276	297	[R]-56	[R]2,132
April	[E]1,546	[E]10	[RE]263	-91	[R]43	1,772
May	[E]1,597	[E]9	[E]268	-337	[E]37	[E]1,574
June(STIFS)	[E]1,550	[E]9	[RE]265	[E]-330	[RE]8	[E]1,502
July(STIFS)	[E]1,576	[E]10	[E]280	[E]-290	[E]-46	[E]1,530
1999 YTD	**[E]10,896**	**[E]72**	**[E]1,909**	**[E]204**	**[E]61**	**[E]13,143**
1998 YTD	**[E]11,004**	**[E]66**	**1,710**	**-221**	**404**	**12,964**
1997 YTD	**11,041**	**61**	**1,639**	**176**	**347**	**13,263**

[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 1992 through 1997 include underground storage and liquefied natural gas storage. Data for January 1998 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.

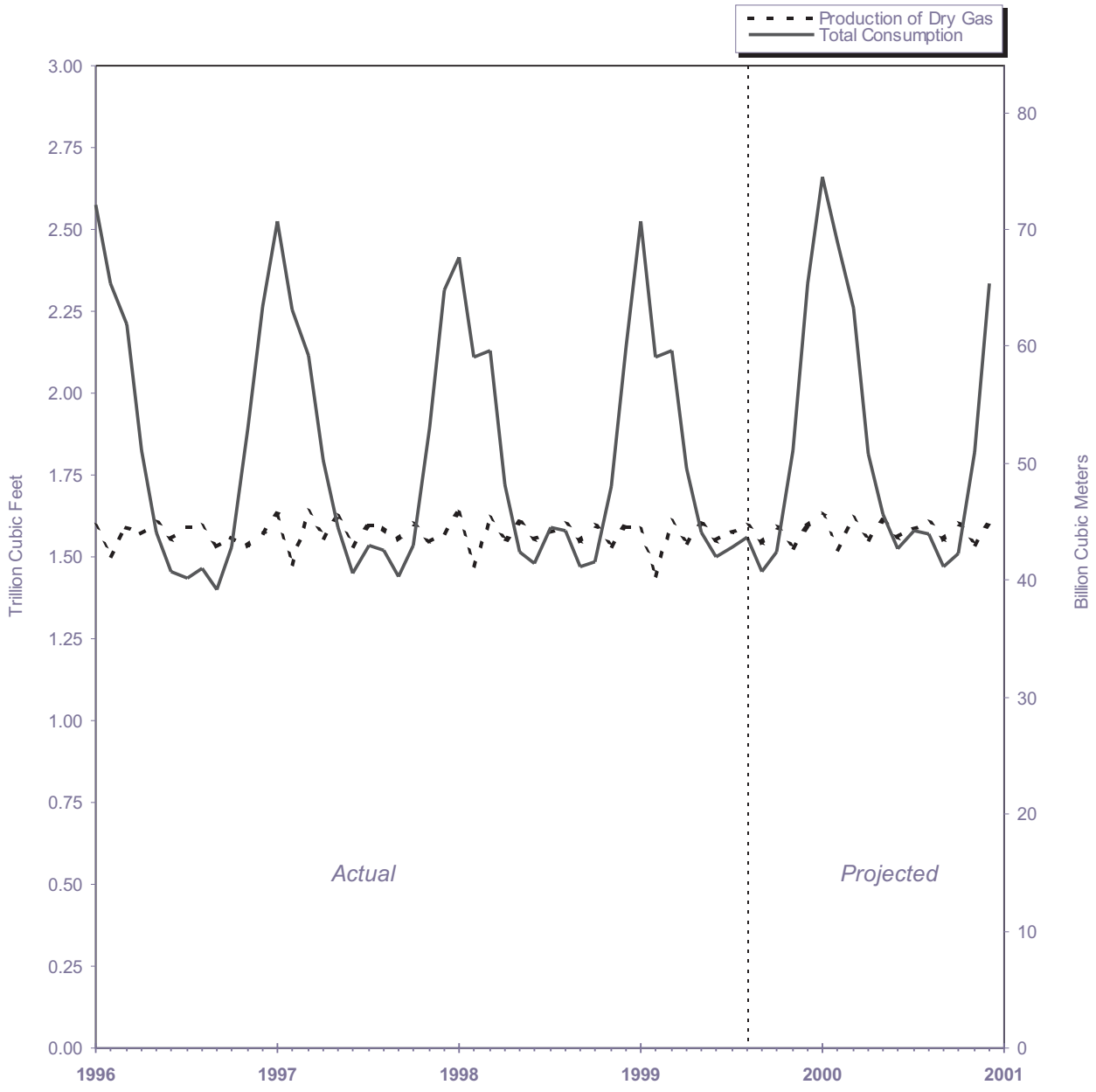
[E] Estimated Data.

[RE] Revised Estimated Data.

Notes: Data for 1993 through 1997 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: 1993-1997: Energy Information Administration (EIA), *Natural Gas Annual 1997*. 1997: EIA-895, "Monthly Quantity of Natural Gas Report," Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-191, " Monthly Underground Gas Storage Report," and Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports and EIA computations. January 1998 through current month: EIA, Form EIA-895, Form EIA-857, Form EIA-191, EIA computations, and estimates, Short-Term Integrated Forecasting System (STIFS) computations, and Office of Fossil Energy, Natural Gas Imports and Exports. See Appendix A for discussion of computation and estimation procedures and revision policies.

Figure 1. Production and Consumption of Natural Gas in the United States, 1996-2000



Sources: 1996 through the current month: Table 2. Projected data: Energy Information Administration, *Short-Term Energy Outlook*

Table 3

Table 3. Natural Gas Consumption in the United States, 1993-1999

(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	
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 Total	**1,250**	**711**	**5,241**	**[c]3,161**	**8,870**	**2,732**	**20,006**	**21,967**
1997								
January	104	88	902	475	816	139	2,332	2,523
February	94	78	757	421	759	143	2,081	2,253
March	104	73	606	360	782	190	1,938	2,115
April	99	61	433	270	739	193	1,635	1,795
May	102	54	284	204	713	232	1,432	1,588
June	97	49	164	154	690	297	1,305	1,451
July	101	52	128	144	683	429	1,385	1,537
August	101	51	118	140	717	391	1,366	1,518
September	99	49	129	142	689	333	1,293	1,440
October	102	52	234	190	711	244	1,380	1,534
November	99	65	497	306	748	180	1,731	1,895
December	101	81	731	411	796	197	2,135	2,317
Total	**1,202**	**752**	**4,984**	**3,223**	**8,843**	**2,968**	**20,018**	**21,972**
1998								
January	[E]107	83	808	[R]449	796	171	2,224	2,414
February	[E]97	72	685	390	732	134	1,941	2,110
March	[E]106	73	641	369	749	194	1,953	2,132
April	[E]102	59	408	[R]258	704	190	[R]1,560	[R]1,721
May	[E]105	52	221	[R]175	674	290	[R]1,360	[R]1,517
June	[RE]102	51	153	[R]142	[R]651	379	[R]1,325	[R]1,478
July	[E]104	54	130	[R]149	[R]705	449	[R]1,433	[R]1,591
August	[E]105	54	115	[R]150	[R]697	457	[R]1,419	[R]1,578
September	[E]102	50	120	[R]146	[R]671	381	[R]1,318	[R]1,470
October	[E]105	51	200	[R]177	708	246	[R]1,331	[R]1,487
November	[E]101	59	390	262	[R]726	178	[R]1,554	[R]1,714
December	[E]105	73	613	[R]368	793	189	[R]1,963	[R]2,141
Total	**[RE]1,241**	**730**	**4,484**	**[R]3,035**	**[R]8,605**	**3,258**	**[R]19,383**	**21,354**
1999								
January	[E]104	86	908	[R]481	765	179	2,333	2,523
February	[E]95	72	676	396	[R]719	152	[R]1,943	[R]2,110
March	[E]106	73	657	376	[R]715	206	[R]1,954	[R]2,132
April	[E]102	61	416	262	676	256	1,609	1,772
May(STIFS)	[E]104	[E]50	[E]233	[E]201	[E]682	NA	[E]1,419	[E]1,574
June(STIFS)	[E]101	[E]43	[E]144	[E]157	[E]680	NA	[E]1,358	[E]1,502
July(STIFS)	[E]102	[E]51	[E]104	[E]154	[E]665	NA	[E]1,377	[E]1,530
1999 YTD[d]	**[E]713**	**[E]437**	**[E]3,137**	**[E]2,027**	**[E]4,902**	**793**	**[E]11,993**	**[E]13,143**
1998 YTD[d]	**[E]724**	**443**	**3,046**	**1,932**	**5,011**	**689**	**11,796**	**12,964**
1997 YTD[d]	**701**	**454**	**3,274**	**2,029**	**5,181**	**665**	**12,108**	**13,263**

[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, 2.9 in 1996 and 4.4 in 1997.

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

[R] Revised Data.

[E] Estimated Data.

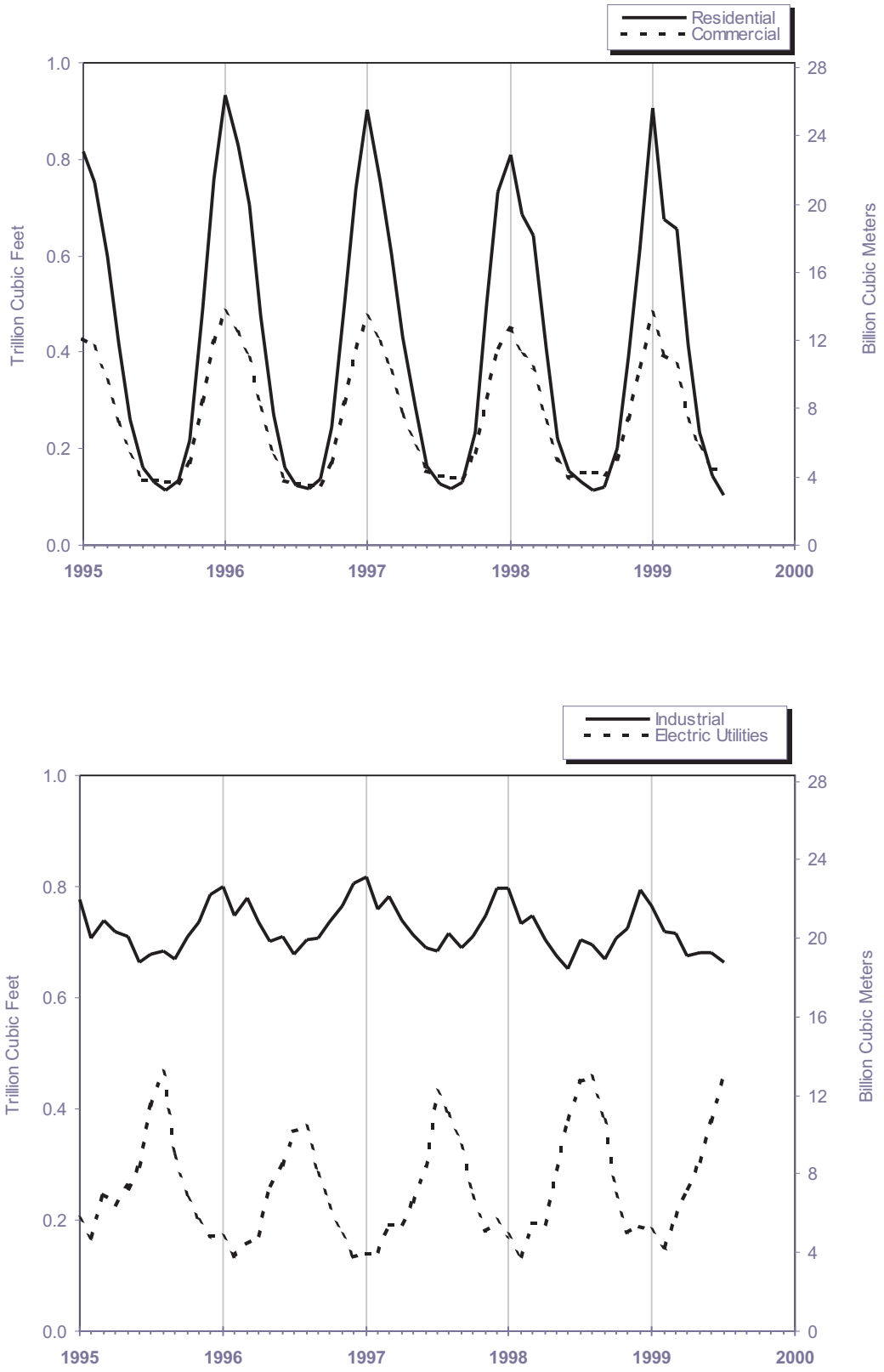
[RE] Revised Estimated Data.

[NA] Not Available.

Notes: Data for 1993 through 1997 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: 1993-1997: 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 1997*. January 1998 through the current month: EIA: Form EIA-895, 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, 1995-1999



Sources: Table 3.

Table 4

Table 4. Selected National Average Natural Gas Prices, 1993-1999

(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]	
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 Annual Average	**2.17**	**3.34**	**6.34**	**5.40**	**77.6**	**3.42**	**19.4**	**2.69**
1997								
January	3.40	4.28	6.74	6.18	78.8	4.65	21.6	4.06
February	2.49	3.76	6.79	6.13	78.4	4.20	19.7	2.97
March	1.79	3.04	6.52	5.72	74.0	3.35	18.8	2.29
April	1.81	2.92	6.53	5.46	71.8	3.02	18.4	2.30
May	2.00	3.11	6.83	5.39	65.5	2.96	18.1	2.41
June	2.08	3.41	8.30	5.64	61.7	3.10	17.4	2.52
July	2.00	3.44	8.78	5.35	59.5	3.06	15.3	2.44
August	2.08	3.34	8.99	5.43	57.9	2.90	15.6	2.53
September	2.33	3.50	8.84	5.57	59.5	3.25	15.1	2.96
October	2.68	3.86	7.69	5.73	62.9	3.69	16.8	3.24
November	2.92	3.91	6.86	5.85	70.4	4.07	18.0	3.41
December	2.28	3.42	6.54	5.70	72.8	3.79	17.2	2.77
Annual Average	**2.32**	**3.61**	**6.94**	**5.79**	**70.8**	**3.59**	**17.7**	**2.74**
1998								
January	1.99	3.28	6.45	5.59	[R]72.1	3.67	15.1	2.64
February	2.00	3.08	6.40	5.56	[R]71.1	3.51	15.4	2.51
March	2.08	3.22	6.27	[R]5.38	[R]71.8	3.40	16.7	2.53
April	2.22	[R]3.22	6.78	5.58	[R]66.7	3.22	15.0	2.59
May	2.03	[R]3.13	[R]7.60	[R]5.69	[R]60.5	3.09	[R]13.9	2.47
June	1.97	[R]3.01	8.41	[R]5.51	[R]60.1	2.96	14.0	2.40
July	2.08	[R]3.42	8.62	5.65	[R]52.2	[R]2.74	[R]13.8	2.50
August	1.84	[R]3.10	9.19	[R]5.49	[R]49.9	[R]2.75	13.5	2.21
September	1.83	[R]2.78	8.94	5.56	[R]53.1	[R]2.66	[R]14.2	2.15
October	1.84	[R]3.03	7.55	[R]5.32	[R]55.6	2.76	14.2	2.22
November	1.94	3.01	6.60	5.26	[R]62.3	2.83	15.5	2.37
December	1.73	2.44	6.36	5.22	[R]65.7	2.83	16.8	2.22
Annual Average	**1.96**	**[R]3.03**	**6.82**	**5.47**	**[R]64.7**	**[R]3.05**	**[R]14.9**	**2.37**
1999								
January	1.80	2.86	6.03	[R]5.13	71.5	3.09	15.7	2.26
February	1.73	2.94	6.25	5.18	68.3	[R]3.00	15.4	2.27
March	1.70	2.67	6.02	5.03	68.8	2.77	16.6	2.11
April	1.93	2.89	6.29	5.67	64.4	2.82	15.9	[NA]
1999 YTD[c]	**1.79**	**2.83**	**6.12**	**5.20**	**68.8**	**2.92**	**15.9**	**2.20**
1998 YTD[c]	**2.07**	**3.20**	**6.45**	**5.53**	**70.8**	**3.46**	**15.6**	**2.56**
1997 YTD[c]	**2.37**	**3.62**	**6.67**	**5.94**	**76.3**	**3.86**	**19.7**	**3.02**

[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 25 for breakdown by State.

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

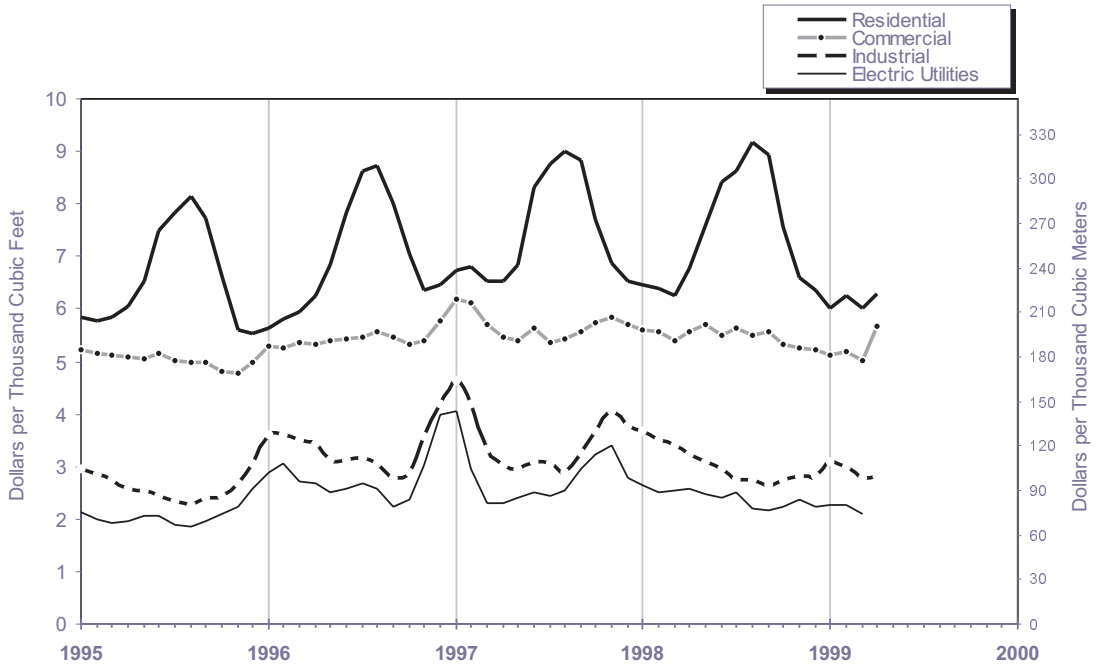
[R] Revised Data.

[NA] Not Available.

Notes: Data for 1993 through 1997 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.

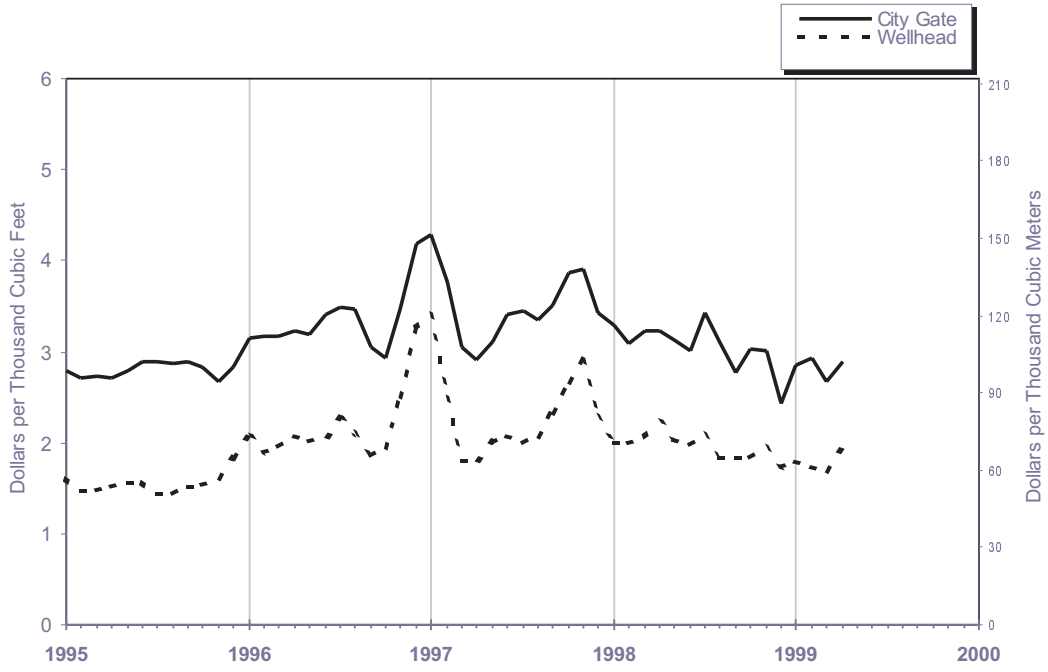
Sources: 1993-1997: Energy Information Administration (EIA) *Natural Gas Annual 1997.* 1998 forward: EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and EIA estimates. January 1998 through 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 U.S., 1995-1999



Source: Table 4

Figure 4. Average Price of Natural Gas in the United States, 1995-1999



Source: Table 4

Table 5

Table 5. U.S. Natural Gas Imports, by Country, 1993-1999

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

Year and Month	Pipeline				LNG		Other		Total	
	Canada		Mexico		Algeria					
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
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 Total	**2,883,277**	**1.96**	**13,862**	**2.25**	**35,325**	**2.70**	[a]**4,949**	**3.45**	**2,937,413**	**1.97**
1997										
January	266,756	3.27	1,555	3.09	7,560	2.78	[a]2,417	3.68	278,288	3.26
February	230,352	2.50	2,526	2.49	7,667	3.00	—	—	240,545	2.52
March	251,328	1.70	3,127	1.83	2,530	2.98	—	—	256,985	1.72
April	235,431	1.66	189	1.92	2,557	2.23	—	—	238,178	1.67
May	234,345	1.81	2,380	2.03	2,552	2.20	[b]2,455	2.68	241,732	1.83
June	225,366	1.87	1,692	2.20	5,059	2.49	—	—	232,118	1.88
July	229,479	1.82	1,088	1.98	5,026	2.48	—	—	235,593	1.84
August	237,142	1.81	6	2.35	7,535	2.43	—	—	244,684	1.83
September	232,090	2.00	29	2.47	5,030	2.41	[b]2,337	2.88	239,486	2.01
October	245,742	2.32	965	2.92	5,050	2.70	—	—	251,758	2.33
November	257,782	2.71	1,874	2.82	7,542	2.89	[b]4,893	3.07	272,091	2.72
December	253,338	2.17	1,810	2.12	7,567	2.88	—	—	262,716	2.19
Total	**2,899,152**	**2.15**	**17,243**	**2.32**	**65,675**	**2.67**	**12,103**	**3.08**	**2,994,173**	**2.17**
1998										
January	273,189	2.02	56	2.11	10,105	2.89	—	—	283,351	2.05
February	235,288	1.94	2,824	1.97	7,607	2.83	[b]2,171	3.84	247,890	1.98
March	258,067	1.98	382	2.20	5,166	3.12	—	—	263,615	2.00
April	242,191	2.00	3,251	2.37	2,549	2.20	—	—	247,991	2.01
May	242,041	1.97	846	2.15	7,596	2.52	—	—	250,483	1.99
June	243,259	1.92	5	2.21	5,125	2.39	[b]2,441	2.79	250,830	1.94
July	256,506	1.87	1,821	2.13	5,086	2.20	—	—	263,414	1.88
August	249,717	1.79	1,414	1.78	2,540	2.20	[b]2,321	2.80	255,993	1.80
September	260,599	1.75	2,256	1.86	5,133	1.73	—	—	267,988	1.75
October	263,823	1.98	906	1.64	5,025	2.56	—	—	269,753	1.99
November	246,409	2.10	—	—	5,042	2.30	[ab]5,020	3.05	256,470	2.13
December	269,687	2.11	1,418	1.77	7,572	2.49	[ab]4,933	3.10	283,609	2.14
Total	**3,040,775**	**1.95**	**15,179**	**2.02**	**68,546**	**2.52**	**16,885**	**3.09**	**3,141,386**	**1.97**
1999										
January	290,266	[R]1.98	[R]4,891	[R]1.76	12,612	[R]2.50	—	—	[R]307,769	[R]2.00
February	258,656	[R]1.89	[R]4,398	[R]1.71	7,423	[R]2.54	[bc]5,038	[R]3.13	[R]275,515	[R]1.93
March	279,161	[R]1.82	[R]751	[R]1.61	12,648	[R]2.73	—	—	[R]292,560	[R]1.86
April	[R]265,973	NA	[RE]3,347	NA	7,639	NA	—	—	[RE]276,958	NA
May	[E]269,762	NA	[E]3,347	NA	3,900	NA	[d]5,493	NA	[E]282,501	NA
1999 YTD	**[E]1,363,818**	NA	**[E]16,734**	NA	**44,221**	NA	**10,531**	NA	**[E]1,435,304**	NA
1998 YTD	**1,250,776**	**1.98**	**7,359**	**2.18**	**33,024**	**2.77**	**2,171**	**3.84**	**1,293,330**	**2.01**
1997 YTD	**1,218,212**	**2.21**	**9,777**	**2.25**	**22,866**	**2.75**	**4,873**	**3.18**	**1,255,727**	**2.23**

[a] Received from the United Arab Emirates.
[b] Received from Australia.
[ab] Received from Australia and the United Arab Emirates: November 1998 - Australia 2,353; United Arab Emirates 2,667. December 1998 - Australia 2,348; United Arab Emirates 2,585.
[bc] Received 2,557 from Australia and 2,481 from Qatar.
[d] Received 5,493 from Trinidad.
[R] Revised Data.
[E] Estimated Data.
[RE] Revised Estimated Data.
NA Not Available.
— Not Applicable.

Sources: 1993-1994: 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, 1993-1999

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

Year and Month	Pipeline				LNG				Total	
	Canada		Mexico		Japan		Mexico			
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
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 Total	**51,905**	**2.67**	**33,840**	**2.11**	**67,648**	**3.65**	—	—	**153,393**	**2.97**
1997										
January	4,193	4.08	2,231	4.08	5,604	4.25	—	—	12,028	4.16
February	5,169	3.02	1,677	2.32	5,596	4.20	—	—	12,443	3.46
March	9,115	2.05	1,486	1.55	5,675	4.16	—	—	16,276	2.74
April	5,168	1.78	3,044	1.83	5,660	4.06	—	—	13,872	2.72
May	4,107	2.08	2,177	1.96	3,812	3.83	—	—	10,097	2.72
June	3,162	2.28	2,579	2.14	3,786	3.72	—	—	9,527	2.81
July	3,257	2.14	3,122	2.17	3,756	3.66	—	—	10,136	2.71
August	3,820	2.15	6,282	2.37	7,532	3.62	—	—	17,633	2.86
September	3,129	2.37	6,159	2.59	3,767	3.58	—	—	13,055	2.83
October	2,432	2.85	4,182	2.87	5,676	3.58	—	—	12,289	3.19
November	5,579	3.10	1,782	3.16	5,691	3.66	—	—	13,051	3.35
December	7,318	2.58	3,650	2.30	5,631	3.58	—	—	16,600	2.86
Total	**56,447**	**2.52**	**38,372**	**2.46**	**62,187**	**3.83**	—	—	**157,006**	**3.02**
1998										
January	5,056	2.53	4,257	2.11	7,446	3.67	—	—	16,759	2.93
February	4,474	2.14	3,119	2.06	3,726	3.42	—	—	11,319	2.54
March	7,818	2.25	4,204	2.14	7,435	3.09	—	—	19,457	2.55
April	4,409	2.47	2,676	2.22	5,702	2.81	—	—	12,787	2.57
May	2,083	2.28	6,123	2.12	1,891	2.70	—	—	10,097	2.26
June	3,404	1.73	5,618	1.98	5,695	2.69	—	—	14,717	2.20
July	2,533	2.05	3,853	2.20	5,681	2.70	—	—	12,067	2.40
August	1,241	1.92	5,292	1.95	5,676	2.70	1	6.44	12,210	2.30
September	2,250	1.94	2,892	1.81	7,584	2.68	—	—	12,726	2.35
October	2,305	2.02	5,169	1.90	5,679	2.72	3	6.28	13,156	2.28
November	4,291	2.21	5,076	2.00	3,776	2.75	10	6.23	13,153	2.29
December	5,376	2.24	5,322	1.99	5,662	2.68	20	6.22	16,380	2.32
Total	**45,240**	**2.20**	**53,601**	**2.03**	**65,953**	**2.90**	**34**	**6.23**	**164,828**	**2.43**
1999										
January	[R]2,373	[R]1.91	[R]4,526	[R]1.83	5,587	[R]2.61	[R]24	[R]8.18	[RE]12,510	[RE]2.21
February	[R]3,360	[R]1.94	[R]4,753	[R]1.74	5,563	[R]2.49	[R]28	[R]8.16	[RE]13,704	[RE]2.11
March	[R]4,883	[R]1.80	[R]5,950	[R]1.64	5,570	[R]2.75	[R]22	[R]8.11	[RE]16,425	[RE]2.07
April	[E]4,002	NA	[E]4,113	NA	5,699	NA	NA	NA	[E]13,814	NA
May	[E]3,500	NA	[E]5,488	NA	5,586	NA	NA	NA	[E]14,574	NA
1999 YTD	**[E]18,118**	NA	**[E]24,830**	NA	**28,005**	NA	NA	NA	**[E]71,027**	NA
1998 YTD	**23,840**	**2.33**	**20,379**	**2.13**	**26,200**	**3.21**	—	—	**70,419**	**2.60**
1997 YTD	**27,751**	**2.49**	**10,615**	**2.37**	**26,349**	**4.12**	—	—	**64,715**	**3.13**

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

Sources: 1993-1994: 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

Table 7. Marketed Production of Natural Gas, by State, 1993-1999

(Million Cubic Feet)

Year and Month	Alabama[b]	Alaska	Arizona	California	Colorado	Florida	Kansas
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 Total	**530,841**	**480,828**	**463**	**286,494**	**572,071**	**6,006**	**712,796**
1997							
January	48,213	43,497	46	24,430	52,755	527	60,198
February	46,024	39,391	41	21,876	48,424	512	55,275
March	51,313	42,625	42	23,910	53,954	610	60,099
April	51,246	38,687	39	23,248	52,529	554	58,357
May	48,802	35,427	36	23,590	52,376	541	61,661
June	47,342	36,344	28	22,928	50,715	450	59,996
July	46,370	36,284	31	23,981	52,964	514	58,234
August	46,314	36,270	30	23,841	54,041	505	61,937
September	48,911	37,041	30	23,760	52,742	519	49,658
October	50,634	40,095	34	24,437	54,260	452	53,815
November	49,734	39,631	57	24,792	55,549	439	54,152
December	48,368	43,020	39	24,896	57,064	491	53,834
Total	**583,272**	**468,311**	**452**	**285,690**	**637,375**	**6,114**	**687,215**
1998							
January	32,739	43,715	43	24,810	53,025	479	52,204
February	29,230	38,016	42	21,719	51,770	436	49,283
March	33,505	41,026	53	22,869	56,834	466	50,179
April	32,406	38,188	43	21,952	55,760	480	47,405
May	33,656	35,200	38	23,889	56,151	512	46,564
June	33,257	36,116	34	24,837	54,493	428	[E]48,050
July	33,696	36,501	42	27,152	56,370	504	[E]48,048
August	33,719	36,331	36	29,717	56,841	529	[E]48,172
September	30,466	[R]36,142	32	29,096	55,501	445	41,968
October	33,344	[R]41,335	31	29,858	58,862	470	48,568
November	31,876	[R]41,517	33	29,462	51,627	533	46,402
December	32,976	[R]43,600	33	28,879	60,780	515	46,677
Total	**390,870**	**[R]467,688**	**457**	**314,240**	**668,014**	**5,796**	**[E]573,520**
1999							
January	32,035	[R]43,848	31	29,268	[E]54,000	517	41,599
February	[R]29,017	[R]39,443	27	26,541	[E]46,518	448	43,103
March	31,827	42,685	36	30,361	[E]56,043	[E]474	43,887
1999 YTD	**92,879**	**125,976**	**95**	**86,170**	**[E]156,561**	**[E]1,438**	**128,590**
1998 YTD	**95,474**	**122,758**	**137**	**69,398**	**161,629**	**1,380**	**151,667**
1997 YTD	**145,550**	**125,513**	**129**	**70,216**	**155,134**	**1,649**	**175,572**

See footnotes at end of table.

Table 7. Marketed Production of Natural Gas, by State, 1993-1999

(Million Cubic Feet) — Continued

Year and Month	Louisiana[b]	Michigan	Mississippi	Montana	New Mexico	North Dakota	Oklahoma
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 Total	**5,240,747**	**245,740**	**103,263**	**50,996**	**1,554,087**	**49,674**	**1,734,887**
1997							
January	445,257	34,940	8,253	4,654	135,263	3,952	144,608
February	405,366	16,875	7,807	4,451	122,656	3,899	134,455
March	447,802	24,790	8,470	4,836	137,830	4,453	147,098
April	431,010	12,944	8,120	4,654	132,438	4,364	136,246
May	443,269	39,819	8,611	4,561	136,553	4,539	142,336
June	425,934	19,314	8,893	3,808	125,256	4,348	138,038
July	434,326	40,026	8,636	4,114	131,806	4,427	144,769
August	438,965	18,597	9,626	4,213	134,140	4,486	147,528
September	430,599	22,451	9,162	4,199	128,915	4,381	150,488
October	445,702	20,297	10,084	3,150	134,623	4,508	145,054
November	434,908	26,013	9,683	4,706	120,856	4,416	135,537
December	446,682	29,885	9,955	5,091	118,298	4,629	137,731
Total	**5,229,821**	**305,950**	**107,300**	**52,437**	**1,558,633**	**52,401**	**1,703,888**
1998							
January	467,734	28,439	9,639	[E]5,058	142,312	4,623	159,422
February	418,165	28,259	8,574	[E]4,668	142,383	4,020	125,953
March	470,930	30,719	9,781	[E]5,018	141,671	4,337	136,396
April	456,246	17,983	8,957	[E]4,714	140,963	4,284	134,017
May	473,557	29,164	9,121	[E]4,672	140,258	4,488	136,703
June	[R]458,372	26,962	8,586	[E]3,805	139,557	4,210	[R]136,013
July	[R]461,063	26,188	9,258	[E]3,990	138,859	4,384	[R]134,510
August	[R]464,025	19,037	8,835	[E]4,242	138,165	4,499	[R]139,914
September	438,628	28,469	8,664	[E]4,332	137,474	4,427	142,267
October	462,358	21,908	8,868	[E]4,346	136,786	4,600	140,146
November	[E]440,854	12,272	8,602	[E]4,934	136,102	4,428	[E]133,360
December	[E]461,135	29,159	9,184	[E]5,280	135,422	4,536	[E]136,123
Total	**[RE]5,473,067**	**298,560**	**108,069**	**[E]55,059**	**1,669,951**	**52,834**	**[RE]1,654,824**
1999							
January	[E]466,143	20,853	9,154	[E]5,090	134,745	4,331	[E]144,408
February	425,121	8,746	8,678	[E]4,796	134,071	3,858	122,928
March	463,776	39,892	9,933	[E]5,112	[E]143,046	4,220	[E]133,354
1999 YTD	**[E]1,355,040**	**69,491**	**27,765**	**[E]14,999**	**[E]411,862**	**12,408**	**[E]400,690**
1998 YTD	**1,356,829**	**87,417**	**27,994**	**[E]14,745**	**426,366**	**12,979**	**421,771**
1997 YTD	**1,298,425**	**76,604**	**24,530**	**13,941**	**395,749**	**12,304**	**426,161**

See footnotes at end of table.

Table 7. Marketed Production of Natural Gas, by State, 1993-1999

(Million Cubic Feet) — Continued

Year and Month	Oregon	Texas[c]	Utah	Wyoming	Other[a] States	U.S. Total
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 Total	**1,439**	**6,449,022**	**250,767**	**666,036**	**814,612**	**19,750,793**
1997						
January	105	554,934	21,782	59,016	66,837	1,709,269
February	98	506,768	19,115	55,848	59,897	1,548,774
March	101	564,269	21,912	61,159	64,286	1,719,559
April	102	539,499	19,570	64,278	61,118	1,639,002
May	102	552,230	22,053	62,726	62,301	1,701,532
June	97	529,765	19,815	59,667	59,069	1,611,809
July	98	546,610	21,711	60,324	58,493	1,673,719
August	99	548,267	21,024	61,091	59,686	1,670,660
September	86	525,836	22,007	64,678	56,803	1,632,265
October	97	540,150	23,006	64,992	62,912	1,678,302
November	91	519,274	22,840	62,181	60,863	1,625,720
December	96	526,271	22,307	62,410	64,414	1,655,481
Total	**1,173**	**6,453,873**	**257,139**	**738,368**	**736,679**	**19,866,093**
1998						
January	90	542,462	21,826	66,074	[E]61,837	[E]1,716,531
February	79	491,530	21,758	53,970	[E]57,200	[E]1,547,056
March	96	541,311	23,656	65,704	[E]61,188	[E]1,695,739
April	92	525,602	23,513	61,974	[E]57,188	[E]1,631,767
May	92	550,442	24,967	54,304	[E]58,146	[E]1,681,924
June	90	[R]517,200	23,968	63,574	[E]56,699	[RE]1,636,249
July	95	[R]531,212	23,036	64,917	[E]55,998	[RE]1,655,822
August	94	[R]546,100	23,681	66,273	[E]57,217	[RE]1,677,426
September	90	529,321	21,554	63,370	[E]55,348	[RE]1,627,593
October	83	534,431	23,830	62,709	[E]59,433	[RE]1,671,967
November	85	520,580	23,045	66,979	[E]59,256	[RE]1,611,948
December	80	525,805	22,507	64,357	[E]62,674	[RE]1,669,720
Total	**1,067**	**[R]6,355,996**	**277,340**	**754,206**	**[E]702,185**	**[RE]19,823,742**
1999						
January	83	528,793	[E]22,266	[R]65,578	[E]60,748	[RE]1,663,490
February	84	483,571	[E]20,626	[R]58,426	[E]56,306	[RE]1,512,308
March	120	527,106	[E]23,654	70,358	[E]60,561	[E]1,686,445
1999 YTD	**287**	**1,539,470**	**[E]66,547**	**194,361**	**[E]177,614**	**[E]4,862,243**
1998 YTD	**265**	**1,575,303**	**67,240**	**185,748**	**[E]180,226**	**[E]4,959,326**
1997 YTD	**304**	**1,625,971**	**62,808**	**176,023**	**191,020**	**4,977,602**

[a] Includes Arkansas, Illinois, Indiana, Kentucky, Maryland, Missouri, Nebraska, Nevada, New York, Ohio, Pennsylvania, South Dakota, Tennessee, Virginia and West Virginia. The 1998 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 Louisana 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 1993 through 1997 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: 1992-1997: Energy Information Administration (EIA), *Natural Gas Annual 1997*.1998 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, March 1999

(Million Cubic Feet)

State	Gross Withdrawals			Repressuring	Nonhydrocarbon Gases Removed[a]	Vented and Flared	Marketed Production
	From Gas Wells	From Oil Wells	Total				
Alabama	34,461	620	35,081	1,041	2,113	100	31,827
Alaska	16,392	290,164	306,556	263,284	0	587	42,685
Arizona	36	0	36	0	0	0	36
California	7,536	27,222	34,758	4,155	163	79	30,361
Colorado	[E]48,831	[E]7,820	[E]56,651	[E]514	0	[E]94	[E]56,043
Florida	[E]0	[E]535	[E]535	0	[E]61	0	[E]474
Kansas	40,485	3,520	44,006	75	0	44	43,887
Louisiana	[E]408,120	[E]61,352	[E]469,472	[E]3,682	0	[E]2,014	463,776
Michigan	32,467	8,117	40,584	286	0	406	39,892
Mississippi	10,892	494	11,386	540	667	247	9,933
Montana	[E]4,523	[E]793	[E]5,316	[E]6	0	[E]197	[E]5,112
New Mexico	[E]135,025	[E]23,406	[E]158,432	[E]965	[E]14,164	[E]257	[E]143,046
North Dakota	1,283	3,188	4,471	0	7	244	4,220
Oklahoma	[E]120,305	[E]13,049	133,354	0	0	0	[E]133,354
Oregon	144	0	144	4	20	0	120
Texas	467,364	113,088	580,453	37,564	13,341	2,442	527,106
Utah	[E]22,501	[E]3,544	[E]26,045	[E]52	0	[E]2,338	[E]23,654
Wyoming	108,950	5,205	114,155	13,831	14,973	14,993	70,358
Other States	[E]57,198	[E]4,233	[E]61,431	[E]176	[E]544	[E]151	[E]60,561
Total	**[E]1,516,514**	**[E]566,351**	**[E]2,082,865**	**[E]326,175**	**[E]46,053**	**[E]24,192**	**[E]1,686,445**

[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.

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

Table 9

Table 9. Underground Natural Gas Storage - All Operators, 1993-1999

(Volumes in Billion Cubic Feet)

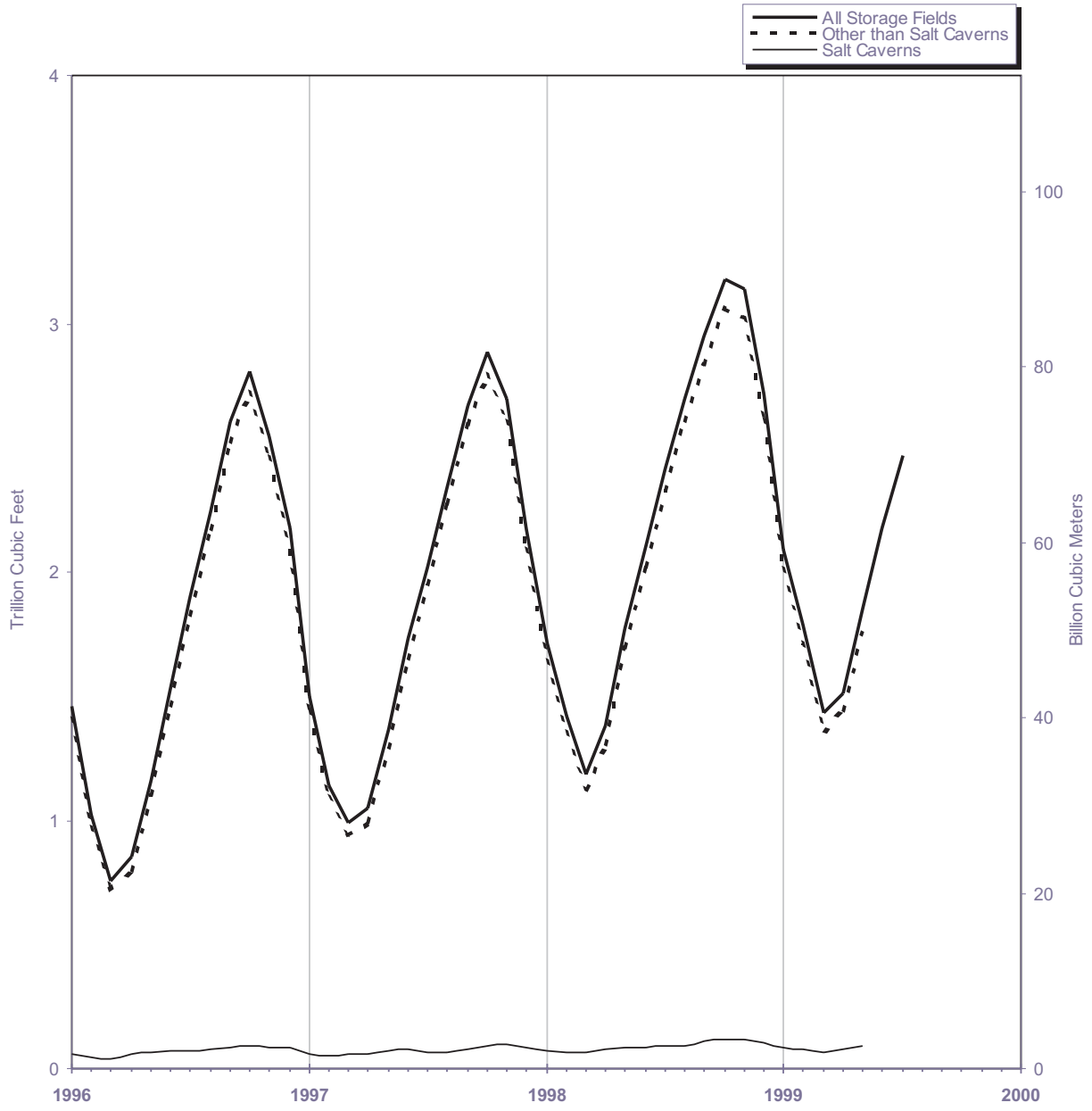
Year and Month	Natural Gas in Underground Storage at End of Period			Change In Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total[b]	Volume	Percent	Injections	Withdrawals	Net Withdrawals[c]
1993 Total[a]	**4,327**	**2,322**	**6,649**	**-275**	**-10.6**	**2,760**	**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 Total[a]	**4,341**	**2,173**	**6,513**	**19**	**0.9**	**2,906**	**2,911**	**6**
1997								
January	4,347	1,496	5,843	32	2.3	68	753	684
February	4,342	1,139	5,481	118	11.6	55	413	358
March	4,345	990	5,336	232	30.7	131	285	155
April	4,342	1,051	5,393	196	23.1	205	146	-59
May	4,340	1,365	5,704	202	17.5	362	41	-321
June	4,357	1,731	6,088	202	13.2	407	42	-365
July	4,356	2,017	6,372	119	6.3	361	78	-282
August	4,357	2,338	6,695	93	4.2	378	56	-322
September	4,360	2,672	7,033	67	2.6	380	44	-336
October	4,358	2,886	7,244	75	2.7	294	84	-210
November	4,359	2,699	7,058	150	5.9	113	302	189
December	4,350	2,175	6,525	2	0.1	45	579	533
Total	—	—	—	—	—	**2,800**	**2,824**	**24**
1998								
January	4,347	1,713	6,060	218	14.5	68	535	466
February	4,341	1,419	5,760	280	24.6	74	373	300
March	4,342	1,185	5,527	194	19.6	136	378	242
April	4,339	1,382	5,721	331	31.5	277	78	-199
May	4,340	1,775	6,115	410	30.0	435	42	-393
June	4,346	2,103	6,448	372	21.5	375	52	-323
July	4,340	2,417	6,757	401	19.9	366	52	-314
August	4,336	2,697	7,033	359	15.4	342	58	-283
September	4,340	2,949	7,289	277	10.4	305	78	-227
October	4,342	3,176	7,517	290	10.0	301	46	-255
November	4,340	3,143	7,483	444	16.5	131	165	34
December	4,326	2,718	7,044	543	25.0	94	530	435
Total	—	—	—	—	—	**2,905**	**2,386**	**-518**
1999								
January	4,327	2,094	6,421	381	22.2	55	678	623
February	4,312	1,792	6,104	372	26.2	62	395	333
March	[d]4,361	[d]1,430	5,792	246	20.7	84	381	297
April	4,355	1,514	5,869	131	9.5	203	112	-91
May	4,346	1,847	6,192	72	4.0	380	43	-337
June(STIFS)	[RE]4,346	[RE]2,177	[R]6,523	[RE]74	[RE]3.5	NA	NA	[E]-330
July(STIFS)	[E]4,346	[E]2,467	[E]6,813	[E]50	[E]2.1	NA	NA	[E]-290

[a] Total as of December 31.
[b] Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1991 - 7,993; 1992 - 7,932; 1993 - 7,989; 1994 - 8,043; 1995 - 7,927; 1996 - 8,159; and 1997 - 8,128.
[c] Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.
[d] Reflects one respondent's reclassification of natural gas in underground storage from working gas to base gas.
[R] Revised Data.
[E] Estimated Data.
[RE] Revised Estimated Data.
NA Not Available.
— Not Applicable.

Notes: Data for 1993 through 1997 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. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.

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 U.S., 1996-1999



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

Table 10. Underground Natural Gas Storage - by Season, 1996-1999

(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 1996	4,335	2,810	7,145	--	--	--	--	--
1996-1997 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	4,347	1,496	5,843	32	2.3	68	753	684
February	4,342	1,139	5,481	118	11.6	55	413	358
March	4,345	990	5,336	232	30.7	131	285	155
Total	—	—	—	—	—	**430**	**2,266**	**1,835**
1997 Refill Season								
April	4,342	1,051	5,393	196	23.1	205	146	-59
May	4,340	1,365	5,704	202	17.5	362	41	-321
June	4,357	1,731	6,088	202	13.2	407	42	-365
July	4,356	2,017	6,372	119	6.3	361	78	-282
August	4,357	2,338	6,695	93	4.2	378	56	-322
September	4,360	2,672	7,033	67	2.6	380	44	-336
October	4,358	2,886	7,244	75	2.7	294	84	-210
Total	—	—	—	—	—	**2,388**	**492**	**-1,896**
1997-1998 Heating Season								
November	4,359	2,699	7,058	150	5.9	113	302	189
December	4,350	2,175	6,525	2	0.1	45	579	533
January	4,347	1,713	6,060	218	14.5	68	535	466
February	4,341	1,419	5,760	280	24.6	74	373	300
March	4,342	1,185	5,527	194	19.6	136	378	242
Total	—	—	—	—	—	**436**	**2,167**	**1,730**
1998 Refill Season								
April	4,339	1,382	5,721	331	31.5	277	78	-199
May	4,340	1,775	6,115	410	30.0	435	42	-393
June	4,346	2,103	6,448	372	21.5	375	52	-323
July	4,340	2,417	6,757	401	19.9	366	52	-314
August	4,336	2,697	7,033	359	15.4	342	58	-283
September	4,340	2,949	7,289	277	10.4	305	78	-227
October	4,342	3,176	7,517	290	10.0	301	46	-255
Total	—	—	—	—	—	**2,402**	**407**	**-1,995**
1998-1999 Heating Season								
November	4,340	3,143	7,483	444	16.5	131	165	34
December	4,326	2,718	7,044	543	25.0	94	530	435
January	4,327	2,094	6,421	381	22.2	55	678	623
February	4,312	1,792	6,104	372	26.2	62	395	333
March	[b]4,361	[b]1,430	5,792	246	20.7	84	381	297
Total	—	—	—	—	—	**427**	**2,148**	**1,721**
1999 Refill Season								
April	4,355	1,514	5,869	131	9.5	203	112	-91
May	4,346	1,847	6,192	72	4.0	380	43	-337
June(STIFS)	[RE]4,346	[RE]2,177	[R]6,523	[RE]74	[RE]3.5	NA	NA	[E]-330
July(STIFS)	[E]4,346	[E]2,467	[E]6,813	[E]50	[E]2.1	NA	NA	[E]-290

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

[b] Reflects one respondent's reclassification of natural gas in underground storage from working gas to base gas.

[R] Revised Data.

[E] Estimated Data.

[RE] Revised Estimated Data.

NA Not Available.

— Not Applicable.

Notes: Data for 1996 and 1997 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.

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, 1994 - 1999

(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
1994 Total[c]	**44**	**70**	**113**	—	—	**142**	**123**	**-19**
1995 Total[c]	**60**	**72**	**131**	**2**	**2.9**	**194**	**200**	**5**
1996 Total[c]	**64**	**85**	**149**	**14**	**18.8**	**258**	**246**	**-13**
1997								
January	65	57	122	-2	-3.1	21	51	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	22	19	-2
May	65	73	138	10	17.3	27	13	-14
June	66	80	145	8	11.7	22	16	-7
July	65	66	131	-6	-7.5	15	30	15
August	65	67	132	-11	-12.4	23	22	0
September	65	78	143	-9	-8.7	27	14	-12
October	66	93	159	4	5.6	30	14	-16
November	67	95	162	7	9.4	25	24	-2
December	67	83	150	-4	-3.0	19	31	12
Total	—	—	—	—	—	**267**	**274**	**6**
1998								
January	66	70	136	13	23.0	17	31	14
February	65	68	133	18	36.4	17	21	3
March	68	64	132	8	14.6	23	29	6
April	68	80	148	22	38.1	29	11	-17
May	68	83	151	10	13.0	26	22	-3
June	66	83	149	3	4.3	21	23	2
July	66	92	158	26	39.6	26	18	-8
August	66	93	159	27	40.0	24	21	-3
September	67	112	180	35	44.9	22	30	8
October	67	116	183	23	24.4	44	12	-32
November	67	119	187	24	25.5	22	17	-5
December	67	104	171	22	26.4	17	32	14
Total	—	—	—	—	—	**288**	**267**	**-21**
1999								
January	69	84	153	14	19.6	19	41	22
February	67	77	144	10	14.3	15	20	5
March	67	68	135	4	6.0	18	26	8
April	67	77	144	-3	-3.8	27	18	-9
May	67	94	161	11	13.4	29	12	-17

[c] Total as of December 31.
— Not Applicable.

Notes: Data for 1994 through 1997 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

Table 12. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 1994-1999

(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
1994 Total[c]	**4,317**	**2,536**	**6,853**	—	—	**2,654**	**2,385**	**-269**
1995 Total[c]	**4,290**	**2,082**	**6,371**	**-455**	**-17.9**	**2,372**	**2,774**	**403**
1996 Total[c]	**4,277**	**2,087**	**6,364**	**6**	**0.3**	**2,647**	**2,665**	**18**
1997								
January	4,282	1,439	5,721	34	2.5	47	702	654
February	4,283	1,090	5,372	116	12.0	40	390	350
March	4,280	935	5,215	214	29.8	109	269	160
April	4,277	993	5,270	195	24.6	184	127	-56
May	4,275	1,292	5,566	191	17.6	335	28	-307
June	4,291	1,651	5,942	194	13.3	385	26	-358
July	4,290	1,951	6,241	124	6.8	346	49	-297
August	4,291	2,271	6,563	103	4.7	356	34	-322
September	4,295	2,595	6,890	75	3.0	353	29	-324
October	4,292	2,793	7,085	70	2.6	265	70	-195
November	4,292	2,604	6,896	142	5.8	88	278	191
December	4,283	2,092	6,375	4	0.2	27	548	521
Total	—	—	—	—	—	**2,533**	**2,551**	**18**
1998								
January	4,281	1,643	5,923	204	14.2	51	504	453
February	4,275	1,352	5,627	262	24.0	56	353	296
March	4,274	1,121	5,394	186	19.9	113	349	236
April	4,271	1,302	5,573	309	31.1	248	67	-181
May	4,272	1,692	5,964	400	31.0	410	20	-390
June	4,279	2,020	6,299	368	22.3	354	29	-325
July	4,274	2,326	6,600	375	19.2	340	34	-306
August	4,270	2,604	6,875	333	14.7	318	37	-281
September	4,273	2,837	7,109	242	9.3	284	48	-236
October	4,274	3,060	7,334	267	9.6	257	34	-223
November	4,272	3,024	7,296	420	16.1	108	147	39
December	4,259	2,614	6,873	522	24.9	77	498	421
Total	—	—	—	—	—	**2,617**	**2,120**	**-497**
1999								
January	4,257	2,010	6,268	367	22.4	37	638	601
February	4,245	1,714	5,960	363	26.8	47	375	328
March	4,294	1,363	5,657	242	21.6	67	355	289
April	4,288	1,437	5,725	134	10.3	175	94	-81
May	4,279	1,753	6,031	61	3.6	351	31	-320

[c] Total as of December 31.

— Not Applicable.

Notes: Data for 1994 through 1997 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, 1997-1999

(Volumes in Million Cubic Feet)

State	1999					1998	
	May	April	March	February	January	Total	December
Alabama	-471	-137	312	114	813	-447	139
Arkansas	-1,045	-667	690	1,049	2,066	-1,774	1,245
California	-27,111	-911	9,782	18,491	23,789	-44,006	29,749
Colorado	-307	8,881	3,319	3,684	3,990	-4,885	7,416
Illinois	-27,851	7,599	27,580	41,907	56,407	-11,545	26,858
Indiana	-758	921	3,622	2,942	5,558	1,424	4,038
Iowa	-4,596	86	5,170	11,814	20,553	-3,131	20,547
Kansas	-12,144	5,085	13,977	9,273	22,470	-20,440	14,055
Kentucky	-8,328	-2,297	6,081	7,825	12,241	-12,142	10,397
Louisiana	-22,324	-16,632	10,263	15,966	43,591	-70,560	38,892
Maryland	-2,551	-667	1,208	1,982	3,399	237	2,068
Michigan	-49,536	-23,148	53,123	57,189	112,276	-77,044	60,725
Minnesota	0	214	167	238	287	442	438
Mississippi	-5,105	-2,240	6,840	3,303	9,981	-8,781	5,256
Missouri	-697	-27	150	343	170	174	573
Montana	-568	1,329	2,410	3,375	4,860	-401	3,962
Nebraska	-701	1,168	1,338	442	698	298	1,215
New Mexico	-1,371	1,025	943	83	1,364	-6,247	-619
New York	-9,935	-5,300	10,688	10,057	15,534	-10,575	6,448
Ohio	-33,732	-5,317	33,698	33,362	53,448	-26,542	35,311
Oklahoma	-14,068	-8,791	8,079	-881	31,284	-34,004	40,863
Oregon	168	735	1,185	1,717	1,979	829	1,888
Pennsylvania	-44,102	-24,525	44,023	50,445	83,851	-30,915	46,400
Tennessee	-143	3	80	131	130	-60	131
Texas	-30,819	-15,510	14,152	9,654	43,297	-108,737	36,143
Utah	-3,772	1,667	5,738	6,185	10,569	-16,395	8,751
Virginia	-273	-184	325	449	317	-709	359
Washington	-786	1,852	1,113	3,144	603	-509	3,226
West Virginia	-32,000	-13,958	30,271	36,278	53,983	-28,894	26,188
Wyoming	-2,132	-990	352	2,050	3,464	-2,837	2,621
AGA Regions							
Producing	-86,875	-37,730	54,944	38,447	154,055	-250,543	135,835
Eastern Consuming	-215,674	-65,782	217,668	255,282	419,379	-199,871	241,397
Western Consuming	-34,509	12,778	24,066	38,885	49,540	-67,763	58,052
Total	**-337,059**	**-90,735**	**296,678**	**332,615**	**622,974**	**-518,177**	**435,284**

See footnotes at end of table.

Table 13. Net Withdrawals from Underground Storage, by State, 1997-1999

(Volumes in Million Cubic Feet) — Continued

State	1998						
	November	October	September	August	July	June	May
Alabama	-1	-613	401	-200	9	-623	-144
Arkansas	63	-580	-817	-1,005	-1,034	-1,100	-1,046
California	-10,022	-23,926	-9,990	-7,283	-9,435	-27,493	-29,210
Colorado	-1,764	-2,043	-5,919	-5,877	-4,060	-3,907	-6,040
Illinois	9,641	-27,923	-28,122	-31,634	-25,062	-31,348	-25,967
Indiana	-618	-2,904	-4,534	-3,695	-2,476	-575	-446
Iowa	-68	-7,108	-12,149	-12,102	-11,525	-8,405	-3,600
Kansas	3,658	-8,737	-9,284	-12,200	-13,108	-6,267	-19,324
Kentucky	1,776	-5,237	-8,821	-4,533	-10,622	-8,137	-11,793
Louisiana	1,326	-30,831	-9,708	-20,159	-25,597	-14,635	-22,794
Maryland	124	-1,267	-783	-1,407	-2,924	-1,251	-808
Michigan	18,548	-27,089	-31,023	-52,128	-60,857	-69,589	-69,296
Minnesota	-84	-187	-275	-214	-289	-169	0
Mississippi	701	-9,800	156	-4,139	-5,961	-2,887	-3,438
Missouri	-204	-208	-414	-203	8	143	-460
Montana	2,606	-1,532	-4,239	-4,524	-2,295	-2,024	-2,571
Nebraska	536	-363	-864	-616	-796	-528	-860
New Mexico	-1,243	-1,903	-1,185	-208	-191	-180	-1,120
New York	1,054	-4,464	-5,640	-5,247	-8,108	-8,786	-11,267
Ohio	7,921	-12,746	-19,259	-27,246	-31,220	-25,882	-35,968
Oklahoma	-473	-19,520	-12,146	-7,189	-7,554	-12,460	-23,277
Oregon	28	4	-818	-819	-852	-1,411	0
Pennsylvania	30	-20,091	-27,252	-19,657	-31,998	-34,236	-57,800
Tennessee	0	-103	-102	-112	-134	0	0
Texas	-3,908	-34,137	-5,040	-18,629	-18,872	-20,145	-27,286
Utah	2,231	-3,879	-8,260	-7,385	-7,265	-8,225	-7,364
Virginia	0	-229	-272	-341	-190	-309	-313
Washington	-730	719	-1,822	-3,640	-312	-2,963	-3,932
West Virginia	3,337	-7,094	-16,425	-29,075	-28,560	-26,404	-26,003
Wyoming	-614	-1,425	-2,602	-2,008	-2,807	-3,406	-1,344
AGA Regions							
Producing	124	-105,507	-38,023	-63,530	-72,318	-57,675	-98,285
Eastern Consuming	42,077	-117,437	-155,259	-188,197	-214,455	-215,931	-244,724
Western Consuming	-8,349	-32,268	-33,925	-31,751	-27,316	-49,599	-50,461
Total	**33,852**	**-255,212**	**-227,207**	**-283,478**	**-314,088**	**-323,205**	**-393,470**

See footnotes at end of table.

Table 13. Net Withdrawals from Underground Storage, by State, 1997-1999

(Volumes in Million Cubic Feet) — Continued

State	1998				1997		
	April	March	February	January	Total	December	November
Alabama	-245	248	187	396	-162	243	243
Arkansas	-471	1,039	875	1,057	250	1,526	651
California	-10,710	-2,257	26,766	29,805	16,340	58,418	2,846
Colorado	3,534	3,928	6,337	3,510	-525	5,026	2,503
Illinois	-293	28,186	36,082	58,036	-10,153	44,906	2,805
Indiana	917	4,249	3,322	4,144	984	4,193	-879
Iowa	348	6,692	5,335	18,905	-6,255	17,041	505
Kansas	-6,954	14,438	8,180	15,103	-11,372	12,277	8,384
Kentucky	-2,480	7,768	9,981	9,559	3,013	10,773	4,035
Louisiana	-21,191	7,400	5,164	21,574	-9,248	43,644	20,997
Maryland	-1,127	1,631	2,745	3,236	-544	1,298	33
Michigan	-31,779	55,388	45,886	84,170	-3,388	78,027	53,016
Minnesota	159	416	203	444	-373	4	4
Mississippi	-2,757	2,405	4,251	7,431	3,763	8,484	1,089
Missouri	48	423	10	458	-453	228	-207
Montana	224	3,017	2,554	4,421	11,962	3,169	2,760
Nebraska	754	1,090	355	376	-1,590	944	124
New Mexico	287	658	-130	-412	2,065	2,500	25
New York	-3,673	7,977	9,548	11,582	304	10,735	4,857
Ohio	-14,906	28,619	34,023	34,810	-7,336	40,530	15,502
Oklahoma	-21,343	7,159	737	21,199	-9,482	25,362	13,995
Oregon	81	934	1,253	540	-1,316	1,036	-262
Pennsylvania	-32,842	38,957	49,786	57,788	28,381	53,825	26,061
Tennessee	0	83	60	116	0	0	0
Texas	-40,395	-9,062	-3,341	35,935	10,035	53,619	18,531
Utah	-596	1,199	6,783	7,613	-7,571	13,169	2,721
Virginia	-209	312	437	46	0	0	0
Washington	1,544	3,329	4,131	-58	-1,003	3,159	83
West Virginia	-14,607	22,818	36,285	30,647	16,716	36,318	6,615
Wyoming	89	2,611	2,059	3,990	908	3,019	1,906
AGA Regions							
Producing	-92,824	24,038	15,735	101,887	-13,990	147,412	63,672
Eastern Consuming	-100,092	204,441	234,042	314,267	19,518	299,061	112,710
Western Consuming	-5,674	13,177	50,086	50,266	18,423	87,001	12,560
Total	**-198,591**	**241,655**	**299,863**	**466,420**	**23,950**	**533,474**	**188,941**

See footnotes at end of table.

Table 13

Table 13. Net Withdrawals from Underground Storage, by State, 1997-1999

(Volumes in Million Cubic Feet) — Continued

State	1997					
	October	September	August	July	June	May
Alabama	-251	-262	-286	-43	-93	-271
Arkansas	271	-1,048	-1,234	-1,472	-1,340	-608
California	-11,717	-6,637	-7,805	-11,213	-22,886	-23,687
Colorado	359	-5,203	-4,559	-5,592	-5,293	-5,375
Illinois	-28,399	-35,655	-35,387	-32,161	-27,571	-23,526
Indiana	-3,088	-4,559	-3,722	-3,299	-1,913	-110
Iowa	-8,412	-12,825	-11,001	-8,818	-8,375	-3,470
Kansas	-7,782	-13,351	-11,129	-3,488	-11,777	-9,463
Kentucky	-2,926	-7,983	-6,520	-7,430	-8,997	-7,828
Louisiana	-24,035	-29,291	-15,446	-11,847	-19,809	-19,573
Maryland	-2,346	-2,838	-2,353	-1,536	-1,700	-1,632
Michigan	-32,466	-65,209	-73,230	-75,558	-73,547	-46,757
Minnesota	0	-130	-142	-321	-312	-273
Mississippi	-2,126	-5,224	-3,109	741	-3,797	-5,573
Missouri	-215	-240	-379	-433	-112	-1,200
Montana	1,015	-1,490	-2,339	-2,710	-1,633	-846
Nebraska	-69	-1,099	-971	-76	-803	-714
New Mexico	-1,305	-853	-328	587	-534	-1,228
New York	-2,211	-6,455	-11,606	-11,663	-11,184	-7,589
Ohio	-8,809	-23,499	-32,174	-34,224	-37,483	-34,205
Oklahoma	-19,663	-14,556	-8,393	-811	-7,984	-18,407
Oregon	-97	-410	-1,178	-1,301	-1,681	-1,300
Pennsylvania	-15,914	-48,745	-44,878	-42,074	-50,051	-43,897
Tennessee	0	0	0	0	0	0
Texas	-30,600	-21,731	-12,881	10,561	-20,379	-28,071
Utah	-1,301	-3,235	-5,284	-8,117	-7,950	-4,255
Virginia	0	0	0	0	0	0
Washington	702	-2,268	982	-495	-3,766	-5,881
West Virginia	-8,145	-19,091	-24,119	-26,183	-31,856	-24,165
Wyoming	-591	-2,454	-2,727	-3,411	-2,304	-1,127
AGA Regions						
Producing	-85,240	-86,054	-52,520	-5,729	-65,620	-82,922
Eastern Consuming	-113,251	-228,461	-246,626	-243,499	-253,685	-195,364
Western Consuming	-11,630	-21,826	-23,050	-33,161	-45,825	-42,743
Total	**-210,121**	**-336,341**	**-322,196**	**-282,389**	**-365,130**	**-321,030**

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 1997 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, May 1999

(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	983	2,173	257	35.3	547	76
Arkansas	24,191	7,460	5,401	12,861	1,180	28.0	1,053	8
California	388,370	246,825	143,806	390,630	32,625	29.3	28,620	1,508
Colorado	99,600	48,229	15,356	63,585	-3,481	-18.5	2,678	2,371
Illinois	898,565	651,392	108,179	759,571	-10,860	-9.1	28,584	733
Indiana	113,210	73,802	19,335	93,137	948	5.2	1,260	502
Iowa	271,200	200,300	12,586	212,886	-2,659	-17.4	5,328	732
Kansas	290,602	179,609	55,031	234,640	-6,533	-10.6	13,261	1,117
Kentucky	219,908	109,121	77,574	186,695	9,031	13.2	8,670	342
Louisiana	559,013	265,600	188,916	454,516	31,729	20.2	30,095	7,771
Maryland	62,000	46,677	9,469	56,146	2,069	28.0	2,887	336
Michigan	992,934	460,561	316,970	777,532	-40,934	-11.4	53,835	4,299
Minnesota	7,000	4,623	1,024	5,647	-127	-11.0	0	0
Mississippi	134,012	77,613	38,599	116,213	4,374	12.8	6,264	1,159
Missouri	31,274	21,600	9,332	30,932	364	4.1	703	6
Montana	371,510	167,359	35,080	202,438	-3,346	-8.7	2,127	1,558
Nebraska	39,469	31,507	274	31,781	-1,529	-84.8	797	96
New Mexico	96,600	27,527	7,257	34,785	325	4.7	1,978	607
New York	175,479	103,063	44,175	147,238	893	2.1	10,393	458
Ohio	573,434	350,934	73,478	424,412	-8,891	-10.8	34,379	647
Oklahoma	395,586	217,527	113,721	331,248	16,619	17.1	16,665	2,597
Oregon	11,623	6,834	1,373	8,207	-1,804	-56.8	13	181
Pennsylvania	684,842	354,029	201,383	555,411	-21,505	-9.6	48,366	4,264
Tennessee	1,200	340	318	658	119	59.6	143	0
Texas	672,906	251,574	244,066	495,640	55,024	29.1	39,815	8,997
Utah	121,980	64,601	17,759	82,360	1,114	6.7	5,039	1,267
Virginia	4,669	2,464	1,202	3,666	147	13.9	279	6
Washington	37,300	21,825	5,544	27,369	-102	-1.8	1,628	842
West Virginia	734,158	290,727	79,771	370,498	9,168	13.0	32,303	303
Wyoming	105,869	60,721	18,591	79,312	7,604	69.2	2,151	18
AGA Regions								
Producing	2,172,909	1,026,909	652,993	1,679,902	102,717	18.7	109,130	22,255
Eastern Consuming	4,805,622	2,697,706	955,029	3,652,735	-62,129	-6.1	228,475	12,800
Western Consuming	1,143,251	621,018	238,532	859,549	32,484	15.8	42,255	7,746
Total	**8,121,782**	**4,345,633**	**1,846,553**	**6,192,187**	**71,817**	**4.0**	**379,860**	**42,802**

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

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1997-1999

(Million Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999		
				April	March	February
Alabama	26,304	31,001	26,987	4,021	6,604	6,364
Alaska	8,282	6,724	6,811	1,315	2,075	2,223
Arizona	18,675	21,724	17,505	3,290	3,662	5,368
Arkansas	23,234	22,755	24,248	3,732	5,156	5,259
California	295,893	274,590	225,911	62,123	67,414	77,987
Colorado	64,358	61,724	62,793	13,088	13,675	15,399
Connecticut	22,589	20,537	22,635	3,623	5,780	6,082
Delaware	5,591	4,862	5,399	989	1,574	1,469
District of Columbia	8,817	8,000	8,727	1,269	2,324	2,309
Florida	6,631	8,396	5,890	1,236	1,676	1,555
Georgia	45,282	62,524	54,879	4,884	10,625	13,082
Hawaii	187	206	187	46	44	48
Idaho	9,855	8,799	8,472	1,875	2,257	2,633
Illinois	247,889	219,274	271,931	31,250	61,415	61,438
Indiana	NA	NA	94,325	14,558	NA	NA
Iowa	42,191	40,276	46,220	5,545	9,863	10,656
Kansas	NA	51,289	39,289	6,996	NA	NA
Kentucky	34,172	31,234	35,147	4,103	9,239	8,779
Louisiana	25,577	28,185	28,412	3,837	5,570	5,999
Maine	505	467	526	76	131	133
Maryland	NA	38,933	42,268	4,831	NA	NA
Massachusetts	NA	57,803	62,513	14,930	NA	17,828
Michigan	206,338	184,746	214,211	31,612	53,871	52,119
Minnesota	66,430	60,111	73,029	8,565	15,346	17,096
Mississippi	NA	NA	15,055	2,353	3,709	4,022
Missouri	70,970	69,542	74,981	9,667	16,580	18,523
Montana	10,054	9,927	11,370	1,917	2,138	2,519
Nebraska	23,969	25,351	28,095	3,732	5,721	5,949
Nevada	15,360	15,810	13,546	2,718	3,349	4,332
New Hampshire	3,946	3,692	3,854	672	991	1,036
New Jersey	NA	104,056	122,892	14,789	NA	NA
New Mexico	24,038	19,550	18,386	2,866	6,478	4,896
New York	NA	172,893	206,832	29,466	NA	NA
North Carolina	33,542	33,066	29,893	5,348	9,468	7,495
North Dakota	6,187	5,889	6,850	984	1,318	1,565
Ohio	186,552	163,510	192,110	26,857	51,339	49,194
Oklahoma	39,110	42,112	41,867	6,241	8,415	9,465
Oregon	20,715	NA	18,170	3,888	5,047	5,445
Pennsylvania	133,539	NA	145,668	20,516	34,931	34,404
Rhode Island	10,150	NA	10,236	1,702	2,704	2,662
South Carolina	15,892	17,036	14,609	2,228	4,380	3,591
South Dakota	6,861	6,726	7,698	1,140	1,486	1,719
Tennessee	35,702	NA	36,156	4,022	7,577	8,917
Texas	102,505	118,763	125,267	15,467	20,018	23,882
Utah	26,637	27,924	29,067	5,267	5,425	7,725
Vermont	1,544	1,430	1,501	284	377	387
Virginia	40,529	37,404	40,408	5,112	11,307	11,220
Washington	NA	NA	26,465	7,603	NA	NA
West Virginia	NA	17,282	19,141	2,833	NA	4,936
Wisconsin	68,749	64,034	73,826	9,109	16,251	16,833
Wyoming	6,138	NA	6,529	1,217	1,317	1,674
Total	**2,656,141**	**2,541,787**	**2,698,786**	**415,788**	**656,556**	**676,073**

See footnotes at end of table.

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999	1998				
	January	Total	December	November	October	September
Alabama	9,316	46,655	4,534	2,493	1,324	1,196
Alaska	2,668	15,617	2,183	1,858	1,346	818
Arizona	6,355	35,815	4,624	1,990	1,122	932
Arkansas	9,087	R38,158	4,917	2,957	1,366	1,067
California	88,370	549,885	68,820	40,193	26,155	22,034
Colorado	22,196	NA	14,198	8,454	4,185	2,690
Connecticut	7,104	35,704	4,490	3,259	1,532	937
Delaware	1,560	7,810	901	575	232	177
District of Columbia	2,915	13,189	1,541	1,084	457	338
Florida	2,163	15,252	1,397	935	718	626
Georgia	16,692	106,238	14,775	9,306	4,268	2,851
Hawaii	49	R545	44	40	40	41
Idaho	3,090	15,975	2,434	1,507	656	316
Illinois	93,786	405,461	64,039	43,854	21,530	10,513
Indiana	32,211	NA	NA	13,244	6,355	NA
Iowa	16,128	68,912	10,511	6,343	3,029	1,435
Kansas	NA	84,208	10,495	6,968	2,780	1,771
Kentucky	12,050	55,894	9,366	6,142	2,239	1,167
Louisiana	10,171	NA	4,941	2,678	NA	1,703
Maine	165	R907	132	95	62	27
Maryland	14,660	NA	9,252	6,554	NA	NA
Massachusetts	12,564	NA	NA	NA	4,257	NA
Michigan	68,737	317,329	42,050	29,476	15,851	7,533
Minnesota	25,424	110,578	18,670	12,214	5,328	2,683
Mississippi	NA	NA	2,509	1,545	815	711
Missouri	26,201	110,375	13,831	8,075	3,345	2,619
Montana	3,479	NA	2,942	2,079	1,272	484
Nebraska	8,568	40,703	4,223	3,404	1,632	885
Nevada	4,962	30,023	4,335	2,526	1,367	824
New Hampshire	1,246	NA	739	597	294	159
New Jersey	NA	NA	NA	NA	8,124	NA
New Mexico	9,799	35,614	7,289	3,545	1,169	840
New York	NA	NA	NA	NA	NA	NA
North Carolina	11,230	50,318	5,679	4,022	1,205	963
North Dakota	2,320	10,290	1,455	1,036	484	202
Ohio	59,162	NA	42,817	29,741	16,127	5,905
Oklahoma	14,989	65,403	7,678	4,327	1,780	1,494
Oregon	6,336	NA	5,504	3,150	1,431	760
Pennsylvania	43,687	NA	27,675	19,152	10,155	NA
Rhode Island	3,083	NA	1,883	1,408	645	436
South Carolina	5,693	25,316	2,858	1,754	606	491
South Dakota	2,516	11,649	1,669	1,157	533	248
Tennessee	15,186	NA	8,358	4,525	1,492	1,172
Texas	43,138	200,728	28,481	13,025	7,370	5,930
Utah	8,220	56,731	9,826	5,808	4,463	1,913
Vermont	496	2,454	289	213	102	114
Virginia	12,891	63,029	8,989	5,980	2,478	1,443
Washington	NA	NA	NA	NA	NA	NA
West Virginia	6,204	NA	3,895	NA	1,302	NA
Wisconsin	26,556	116,373	18,698	11,803	6,382	2,723
Wyoming	1,929	NA	1,578	NA	745	388
Total	**907,724**	**R4,483,876**	**613,452**	**389,640**	**200,270**	**119,590**

See footnotes at end of table.

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998					
	August	July	June	May	April	March
Alabama	1,183	1,202	1,386	2,335	4,610	7,480
Alaska	648	479	628	933	1,239	1,529
Arizona	894	1,062	1,375	2,092	3,694	5,323
Arkansas	1,058	1,146	1,171	R1,722	2,270	6,069
California	21,621	25,147	33,207	38,118	54,072	62,006
Colorado	2,480	NA	1,592	7,546	11,118	15,570
Connecticut	848	1,028	1,195	1,878	3,638	5,051
Delaware	165	197	252	450	846	1,248
District of Columbia	327	371	435	636	1,195	2,032
Florida	639	707	817	1,017	1,631	2,044
Georgia	2,814	2,956	3,186	3,558	8,015	16,312
Hawaii	41	45	47	R41	49	49
Idaho	292	402	666	904	1,560	2,032
Illinois	10,437	9,497	11,529	14,790	33,014	54,697
Indiana	NA	NA	3,291	5,270	NA	23,358
Iowa	1,453	1,622	1,435	2,807	5,821	10,634
Kansas	1,851	2,090	2,512	4,451	8,389	13,482
Kentucky	1,104	1,321	1,360	1,961	3,937	8,164
Louisiana	1,574	1,774	1,814	2,310	3,736	7,184
Maine	25	22	31	45	R71	120
Maryland	1,854	1,828	2,087	2,992	5,696	9,577
Massachusetts	2,347	2,842	NA	NA	10,697	14,514
Michigan	6,740	7,275	9,771	13,888	31,736	47,397
Minnesota	2,465	2,537	2,735	3,836	7,148	16,337
Mississippi	705	714	796	1,231	2,243	NA
Missouri	2,185	2,670	3,128	4,980	10,435	17,763
Montana	488	481	1,086	NA	1,676	2,429
Nebraska	1,036	1,014	1,199	1,961	4,324	6,482
Nevada	813	977	1,487	1,884	2,826	3,809
New Hampshire	NA	169	238	378	697	845
New Jersey	4,528	4,845	5,736	11,735	17,514	26,429
New Mexico	845	822	284	1,270	2,589	4,740
New York	7,468	15,038	NA	NA	30,102	42,752
North Carolina	905	1,044	1,192	2,243	5,018	7,535
North Dakota	208	235	292	490	953	1,464
Ohio	7,246	NA	8,509	11,550	24,861	44,211
Oklahoma	1,430	1,633	1,855	3,094	5,854	10,832
Oregon	679	944	1,641	2,135	NA	NA
Pennsylvania	NA	5,283	6,505	9,880	NA	32,526
Rhode Island	438	462	622	1,001	NA	2,402
South Carolina	463	474	562	1,071	2,421	4,006
South Dakota	227	274	302	512	1,127	1,738
Tennessee	1,111	1,186	1,410	2,674	5,170	9,938
Texas	5,810	6,077	6,125	9,148	15,463	28,005
Utah	1,332	1,264	1,958	2,243	4,853	6,482
Vermont	57	56	77	118	266	340
Virginia	1,064	1,425	1,737	2,509	5,172	9,618
Washington	NA	NA	NA	NA	NA	NA
West Virginia	NA	NA	NA	NA	2,785	4,553
Wisconsin	2,768	2,415	3,470	4,080	9,198	17,130
Wyoming	298	NA	503	704	1,182	1,566
Total	**115,277**	**130,370**	**152,827**	**R220,663**	**R407,740**	**640,684**

See footnotes at end of table.

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998		1997			
	February	January	Total	December	November	October
Alabama	9,222	9,689	48,496	7,942	3,977	1,440
Alaska	1,716	2,240	15,146	2,162	1,684	1,569
Arizona	5,604	7,103	31,057	4,764	1,973	1,053
Arkansas	6,668	7,747	42,428	6,369	4,013	1,345
California	76,210	82,302	478,904	68,486	39,940	24,538
Colorado	16,176	18,860	115,583	17,463	10,147	4,290
Connecticut	5,585	6,263	40,562	5,977	3,672	1,629
Delaware	1,360	1,408	8,972	1,213	671	252
District of Columbia	2,365	2,409	15,807	2,421	1,414	553
Florida	2,251	2,470	13,117	1,837	1,074	681
Georgia	18,031	20,167	114,383	19,892	16,495	6,693
Hawaii	52	55	517	45	42	39
Idaho	2,232	2,975	15,239	2,371	1,427	638
Illinois	53,146	78,417	497,230	69,718	56,299	29,455
Indiana	20,668	26,868	169,140	25,914	17,338	7,954
Iowa	10,261	13,560	81,696	12,051	8,606	4,048
Kansas	13,593	15,826	69,415	10,323	8,236	2,153
Kentucky	8,515	10,618	66,033	11,175	8,091	3,063
Louisiana	7,953	9,311	52,709	7,960	4,176	2,016
Maine	124	153	1,009	142	107	66
Maryland	11,052	12,609	77,500	11,130	7,894	3,543
Massachusetts	15,644	16,948	112,308	15,677	10,149	4,784
Michigan	48,977	56,636	379,838	50,037	37,942	17,853
Minnesota	15,023	21,603	128,873	17,435	15,098	6,504
Mississippi	4,564	NA	27,626	4,355	2,561	902
Missouri	18,966	22,378	127,625	19,041	12,090	3,656
Montana	2,404	3,418	21,002	3,207	2,038	1,234
Nebraska	6,642	7,902	47,105	5,787	4,399	1,382
Nevada	4,149	5,025	25,243	3,884	1,925	1,024
New Hampshire	1,010	1,140	6,939	933	616	327
New Jersey	29,313	30,800	216,925	31,134	20,208	9,250
New Mexico	4,337	7,884	36,623	8,217	4,095	1,217
New York	46,717	53,322	375,641	48,074	34,936	17,385
North Carolina	9,710	10,803	52,894	9,202	4,875	1,438
North Dakota	1,561	1,910	11,370	1,423	1,133	434
Ohio	43,910	50,527	354,543	50,352	36,474	19,056
Oklahoma	11,652	13,774	71,762	11,025	6,186	1,968
Oregon	4,581	6,117	32,522	4,684	2,713	1,536
Pennsylvania	34,714	31,526	262,494	37,709	26,561	12,927
Rhode Island	2,720	2,781	18,162	2,509	1,464	659
South Carolina	5,177	5,432	25,741	4,683	2,424	637
South Dakota	1,666	2,196	13,203	1,734	1,339	537
Tennessee	9,546	NA	64,130	11,511	6,602	1,829
Texas	34,096	41,199	234,988	37,410	21,561	9,175
Utah	8,193	8,396	58,108	10,376	6,018	4,299
Vermont	397	427	2,631	345	214	118
Virginia	11,067	11,546	73,905	12,127	7,452	2,989
Washington	NA	NA	61,813	11,405	7,594	3,623
West Virginia	4,906	5,039	35,996	6,017	4,061	1,737
Wisconsin	15,618	22,087	135,819	19,045	16,127	8,106
Wyoming	1,560	NA	12,999	2,337	1,179	617
Total	**685,125**	**808,238**	**4,983,772**	**731,030**	**497,310**	**234,223**

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, 1997-1999

(Million Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999		
				April	March	February
Alabama	12,080	14,330	13,090	2,093	3,097	3,007
Alaska	10,805	10,816	10,951	1,967	2,822	2,894
Arizona	13,587	14,223	13,081	2,980	3,158	3,569
Arkansas	14,922	15,235	15,148	2,503	3,384	3,503
California	125,108	101,835	95,932	27,184	29,895	31,671
Colorado	33,741	35,412	35,976	6,260	7,527	8,906
Connecticut	22,187	20,590	20,089	3,724	5,831	6,038
Delaware	3,617	3,219	3,612	637	998	944
District of Columbia	9,343	8,787	8,573	1,976	2,333	2,549
Florida	15,231	15,798	13,960	3,414	3,969	3,797
Georgia	21,392	28,863	25,538	2,970	5,497	5,786
Hawaii	599	604	651	147	R142	R158
Idaho	6,575	6,046	5,985	1,233	1,532	1,734
Illinois	99,939	90,871	105,889	14,054	24,499	26,221
Indiana	NA	42,819	41,527	7,753	NA	12,406
Iowa	25,029	25,089	26,841	3,783	6,201	6,162
Kansas	NA	28,983	20,416	3,588	NA	NA
Kentucky	18,946	17,847	19,496	2,550	5,102	4,940
Louisiana	10,819	11,971	11,798	2,059	2,485	2,692
Maine	1,351	1,291	1,389	199	357	341
Maryland	NA	27,237	23,815	6,792	NA	NA
Massachusetts	NA	47,000	49,166	5,940	NA	NA
Michigan	97,330	88,204	103,404	14,919	25,951	25,441
Minnesota	47,138	43,802	49,144	7,091	11,097	12,605
Mississippi	NA	11,229	9,965	1,842	2,676	2,934
Missouri	35,924	35,135	38,907	5,222	8,515	9,713
Montana	6,179	6,193	7,447	1,168	1,346	1,550
Nebraska	15,836	15,953	14,490	2,309	3,484	4,246
Nevada	9,737	10,502	9,730	1,977	2,372	2,486
New Hampshire	4,066	3,710	3,924	658	1,026	1,070
New Jersey	NA	70,486	80,370	13,186	NA	NA
New Mexico	17,134	15,710	15,464	3,148	3,836	4,322
New York	NA	NA	138,155	20,034	NA	NA
North Carolina	26,060	20,491	18,352	3,576	9,796	6,309
North Dakota	5,802	5,512	6,216	909	1,253	1,558
Ohio	93,964	85,690	97,978	15,152	24,032	26,480
Oklahoma	22,572	25,193	23,877	3,917	4,745	5,832
Oregon	14,594	NA	13,121	2,699	3,462	3,880
Pennsylvania	73,728	NA	71,672	12,458	19,237	20,975
Rhode Island	6,395	NA	6,323	1,085	1,731	1,686
South Carolina	10,312	9,908	7,755	1,945	3,183	2,232
South Dakota	5,280	5,054	5,825	914	1,149	1,343
Tennessee	26,512	NA	28,063	3,860	6,399	6,648
Texas	80,446	80,049	85,228	16,114	18,021	18,878
Utah	14,766	15,315	15,563	2,920	3,068	4,198
Vermont	1,344	1,585	1,646	227	334	321
Virginia	29,873	30,288	29,512	5,237	7,611	8,062
Washington	NA	NA	18,558	5,271	NA	NA
West Virginia	12,741	12,255	12,355	2,184	3,390	3,286
Wisconsin	47,894	40,184	44,539	7,263	11,763	11,927
Wyoming	4,492	NA	5,478	935	1,077	1,124
Total	**1,514,987**	**1,465,822**	**1,525,982**	**262,024**	**R375,605**	**R396,144**

See footnotes at end of table.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999	1998				
	January	Total	December	November	October	September
Alabama	3,884	R25,165	2,355	1,676	1,228	1,053
Alaska	3,122	R27,155	R3,382	R2,676	R2,324	R1,624
Arizona	3,880	31,754	3,376	2,343	1,902	1,730
Arkansas	5,531	R28,002	R3,160	R1,993	R1,356	R1,140
California	36,358	319,553	35,388	30,954	26,720	26,660
Colorado	11,048	NA	7,986	5,059	3,413	2,714
Connecticut	6,594	42,471	4,991	3,256	2,686	2,039
Delaware	1,038	5,624	626	446	243	179
District of Columbia	2,486	17,184	1,752	1,209	883	837
Florida	R4,051	38,240	3,369	2,852	2,656	2,501
Georgia	7,139	55,578	5,541	4,110	3,073	2,612
Hawaii	R153	R1,747	R151	R143	R132	R140
Idaho	2,076	11,718	1,642	1,047	581	388
Illinois	35,165	175,082	24,720	17,234	10,112	6,559
Indiana	16,957	NA	NA	7,162	4,358	NA
Iowa	8,883	44,299	5,999	4,257	2,406	1,194
Kansas	NA	50,545	5,585	3,672	1,929	1,626
Kentucky	6,354	33,883	4,924	3,368	1,705	1,143
Louisiana	3,584	24,670	2,259	1,747	1,533	1,317
Maine	454	NA	337	NA	165	78
Maryland	9,129	56,238	6,716	3,487	3,296	2,827
Massachusetts	6,643	NA	NA	NA	5,288	NA
Michigan	31,019	164,836	20,702	15,353	8,819	5,790
Minnesota	16,345	84,104	12,694	8,931	5,382	2,747
Mississippi	NA	23,170	2,318	1,624	1,242	1,445
Missouri	12,474	61,869	7,156	4,410	2,395	2,195
Montana	2,115	NA	1,819	1,262	789	407
Nebraska	5,798	28,465	3,910	2,186	1,018	935
Nevada	2,903	23,049	2,528	1,822	1,288	1,090
New Hampshire	1,312	NA	810	323	371	222
New Jersey	NA	NA	NA	NA	NA	NA
New Mexico	5,827	30,824	4,613	2,533	1,410	1,242
New York	NA	NA	NA	NA	NA	NA
North Carolina	6,380	37,774	4,006	2,870	1,867	1,678
North Dakota	2,083	10,290	1,390	1,042	558	329
Ohio	28,299	NA	21,958	14,908	6,698	4,919
Oklahoma	8,077	R44,821	5,604	2,911	1,813	1,756
Oregon	4,554	NA	3,630	2,689	1,296	1,028
Pennsylvania	21,058	NA	15,512	11,849	6,876	4,436
Rhode Island	1,892	NA	1,308	996	613	472
South Carolina	2,952	19,887	1,940	1,531	1,148	1,055
South Dakota	1,873	9,274	1,306	914	363	269
Tennessee	9,606	NA	6,190	4,239	2,688	2,527
Texas	27,433	R215,939	26,376	18,725	14,888	16,529
Utah	4,580	30,853	4,903	3,182	2,078	1,026
Vermont	462	2,979	401	276	165	125
Virginia	8,962	59,729	7,141	5,371	3,304	2,561
Washington	NA	NA	NA	NA	NA	NA
West Virginia	3,882	NA	2,880	2,667	1,933	1,622
Wisconsin	16,941	81,410	11,696	8,101	4,339	3,346
Wyoming	1,356	NA	1,708	NA	461	324
Total	**R481,214**	**R3,035,106**	**R368,470**	**R261,611**	**R177,061**	**R145,768**

See footnotes at end of table.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998					
	August	July	June	May	April	March
Alabama	981	1,030	1,118	R1,393	R2,269	3,522
Alaska	R1,418	R1,419	R1,516	R1,981	R2,229	R2,612
Arizona	1,721	1,890	2,073	2,495	3,013	3,548
Arkansas	R1,202	R1,273	R1,210	1,432	R2,536	3,843
California	30,322	27,131	18,132	22,410	23,269	19,321
Colorado	2,329	NA	3,415	4,768	6,738	9,008
Connecticut	2,178	2,456	2,151	2,124	4,294	4,999
Delaware	176	190	226	320	556	829
District of Columbia	847	871	913	1,085	1,830	2,032
Florida	2,575	2,630	2,748	3,112	3,701	3,961
Georgia	2,649	2,757	2,725	3,248	4,882	7,391
Hawaii	R155	R134	R148	R140	R145	R140
Idaho	381	407	537	689	1,077	1,423
Illinois	6,672	5,252	6,702	6,961	15,326	22,556
Indiana	2,446	NA	NA	3,258	8,420	11,063
Iowa	1,199	1,353	1,237	1,566	3,605	7,584
Kansas	2,077	2,201	1,980	2,493	3,888	9,214
Kentucky	1,134	1,061	1,195	1,505	2,490	4,636
Louisiana	1,398	1,321	1,496	1,629	2,048	3,079
Maine	74	75	90	122	R195	332
Maryland	3,079	2,927	3,155	3,514	4,885	7,125
Massachusetts	3,407	4,054	5,209	5,789	8,771	11,570
Michigan	5,841	5,301	6,297	8,530	15,784	22,837
Minnesota	2,311	2,026	3,003	3,208	5,685	11,726
Mississippi	1,304	1,371	1,298	1,339	1,789	2,866
Missouri	3,039	2,210	2,352	2,978	5,545	8,978
Montana	405	400	R447	NA	1,029	1,527
Nebraska	848	1,070	856	1,690	2,786	4,027
Nevada	1,052	1,304	1,587	1,876	2,207	2,642
New Hampshire	NA	228	NA	375	623	869
New Jersey	6,079	6,385	6,873	10,233	11,748	19,826
New Mexico	1,214	1,174	1,096	1,832	2,727	3,814
New York	15,604	12,007	13,919	NA	20,716	NA
North Carolina	1,650	1,502	1,658	2,053	3,326	4,879
North Dakota	354	285	312	507	953	1,372
Ohio	4,070	NA	5,165	7,134	13,211	21,443
Oklahoma	1,812	R1,614	1,826	2,291	4,018	6,347
Oregon	905	1,047	1,428	1,618	NA	NA
Pennsylvania	NA	4,607	4,906	6,114	NA	17,790
Rhode Island	195	484	495	680	NA	1,492
South Carolina	1,019	1,013	1,063	1,209	1,732	2,440
South Dakota	263	283	285	539	806	1,335
Tennessee	2,366	2,507	2,646	2,993	4,714	7,027
Texas	16,063	18,195	11,161	R13,951	14,839	20,104
Utah	840	845	1,154	1,510	2,749	3,787
Vermont	100	102	110	116	281	381
Virginia	1,971	2,739	2,682	3,672	5,338	7,878
Washington	NA	NA	NA	NA	NA	NA
West Virginia	1,575	2,423	NA	1,709	2,235	3,146
Wisconsin	3,410	3,063	3,471	3,801	6,632	11,019
Wyoming	232	NA	R428	545	861	1,128
Total	**R150,490**	**R148,854**	**R142,190**	**R174,840**	**R257,525**	**R369,359**

See footnotes at end of table.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998		1997			
	February	January	Total	December	November	October
Alabama	4,010	4,529	32,362	3,743	2,437	1,903
Alaska	R2,681	R3,295	26,908	3,147	2,658	2,574
Arizona	3,534	4,129	30,284	3,381	2,269	1,751
Arkansas	4,075	4,781	29,443	3,989	2,713	1,347
California	28,787	30,457	256,044	26,978	21,157	19,602
Colorado	9,159	10,507	69,088	9,717	6,177	2,558
Connecticut	5,540	5,757	42,680	5,801	3,854	2,512
Delaware	899	935	6,610	845	513	286
District of Columbia	2,382	2,542	18,018	2,374	1,354	899
Florida	3,984	4,152	36,765	3,719	3,112	2,621
Georgia	8,120	8,471	57,227	8,027	6,140	3,554
Hawaii	R150	R168	1,751	165	37	152
Idaho	1,570	1,977	11,469	1,657	982	585
Illinois	22,455	30,533	202,871	27,076	22,863	12,292
Indiana	10,460	12,876	81,813	10,689	8,637	4,518
Iowa	5,962	7,938	50,194	7,208	5,707	3,037
Kansas	7,252	8,630	41,238	5,532	3,673	1,936
Kentucky	5,053	5,668	38,632	6,154	4,176	2,417
Louisiana	3,315	3,527	25,629	3,073	2,048	1,414
Maine	342	422	2,713	375	289	176
Maryland	7,365	7,862	49,859	6,536	4,962	2,839
Massachusetts	12,943	13,716	105,818	11,523	8,546	6,898
Michigan	23,664	25,919	192,300	25,857	19,047	9,791
Minnesota	11,133	15,257	92,263	12,318	10,721	5,179
Mississippi	3,310	3,264	22,073	2,934	2,028	1,224
Missouri	9,467	11,144	69,869	9,547	6,192	2,741
Montana	1,459	2,178	13,926	2,014	1,306	797
Nebraska	4,237	4,903	33,853	3,454	2,812	1,855
Nevada	2,575	3,078	22,024	2,580	1,806	1,276
New Hampshire	1,051	1,167	7,489	1,010	703	411
New Jersey	18,713	20,200	168,761	23,161	16,022	8,454
New Mexico	3,839	5,330	31,501	4,831	2,949	1,384
New York	NA	NA	321,447	34,705	27,141	21,151
North Carolina	5,791	6,495	38,021	5,508	3,434	1,908
North Dakota	1,434	1,753	10,875	1,339	1,129	559
Ohio	23,991	27,046	184,103	25,092	17,752	9,727
Oklahoma	6,859	7,969	45,195	6,049	3,675	2,064
Oregon	3,308	3,889	25,500	3,352	2,023	1,367
Pennsylvania	19,674	21,571	144,134	19,731	14,064	9,348
Rhode Island	1,620	1,786	12,306	1,413	1,212	637
South Carolina	2,781	2,955	19,561	2,638	1,757	1,167
South Dakota	1,292	1,621	10,426	1,311	1,021	549
Tennessee	6,063	NA	55,130	7,939	5,015	2,653
Texas	20,826	24,280	216,347	24,323	19,327	14,189
Utah	4,235	4,544	31,257	5,152	3,187	2,020
Vermont	436	487	3,051	403	282	184
Virginia	8,398	8,673	61,932	9,233	5,543	3,397
Washington	NA	NA	46,802	6,666	7,903	2,660
West Virginia	3,310	3,564	25,918	3,386	2,809	1,500
Wisconsin	9,845	12,688	88,783	12,473	10,180	5,408
Wyoming	1,288	NA	10,767	1,077	967	555
Total	**R390,421**	**R448,516**	**3,223,030**	**411,204**	**306,311**	**190,027**

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 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, 1997-1999

(Million Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999		
				April	March	February
Alabama	73,401	79,421	68,826	18,047	20,820	17,325
Alaska	24,339	25,939	26,877	6,244	6,270	5,521
Arizona	9,433	9,452	8,811	2,545	2,237	2,291
Arkansas	49,046	51,581	50,630	11,728	12,581	11,668
California	234,403	234,217	230,845	54,328	52,152	65,298
Colorado	25,895	25,937	26,589	7,703	6,418	7,170
Connecticut	11,237	12,515	12,956	2,504	2,790	2,957
Delaware	7,485	5,872	5,016	1,767	1,952	1,878
District of Columbia	0	0	0	0	0	0
Florida	46,595	48,552	44,327	12,497	12,588	10,403
Georgia	45,410	53,444	66,730	9,427	12,217	11,713
Hawaii	0	0	0	0	0	0
Idaho [a]	12,264	13,003	12,347	3,167	3,214	3,081
Illinois	119,158	117,890	121,422	25,818	29,733	29,448
Indiana	NA	107,600	109,528	24,258	NA	R26,890
Iowa	41,255	43,288	38,021	10,191	9,569	9,611
Kansas	NA	45,526	38,537	8,493	R8,912	R7,969
Kentucky	34,356	33,817	35,172	7,600	9,276	8,168
Louisiana	321,718	317,356	329,913	80,246	82,473	74,099
Maine	747	746	775	161	189	104
Maryland	NA	12,534	19,369	3,983	NA	R3,238
Massachusetts	NA	35,334	40,304	9,318	NA	8,668
Michigan	109,181	124,285	133,288	24,992	28,348	26,741
Minnesota	40,106	36,802	38,736	8,307	9,720	11,213
Mississippi	NA	NA	29,268	6,772	7,546	6,900
Missouri	NA	25,669	29,559	5,446	5,175	NA
Montana	6,503	6,335	6,748	1,481	1,619	1,614
Nebraska	9,588	11,969	18,114	953	2,508	2,695
Nevada	11,141	8,199	9,404	2,635	2,816	2,674
New Hampshire	2,093	1,958	2,069	578	505	484
New Jersey	NA	70,241	75,428	12,807	NA	NA
New Mexico	NA	12,230	14,147	5,549	5,497	4,870
New York	NA	NA	111,460	25,623	NA	NA
North Carolina	36,029	41,369	38,913	8,837	9,200	8,025
North Dakota	7,794	7,693	7,831	1,479	2,037	2,844
Ohio	127,014	129,310	124,692	29,080	32,561	31,901
Oklahoma	54,273	64,593	72,482	13,018	12,381	14,203
Oregon	42,127	NA	28,557	8,923	15,206	R8,595
Pennsylvania	89,580	84,433	90,313	20,822	23,081	23,816
Rhode Island	7,643	8,378	8,880	2,164	1,717	1,728
South Carolina	36,827	36,053	34,117	9,982	9,684	8,284
South Dakota	1,893	1,818	2,996	446	439	463
Tennessee	51,349	NA	49,306	11,615	13,948	12,593
Texas	594,415	631,223	706,797	131,317	136,528	157,475
Utah	14,580	17,568	14,997	3,809	3,718	3,350
Vermont	1,076	785	810	243	301	312
Virginia	32,427	28,328	25,806	10,718	8,714	7,364
Washington	NA	NA	34,429	9,082	NA	NA
West Virginia	NA	19,389	19,721	3,462	NA	3,705
Wisconsin	59,688	56,112	63,363	12,033	15,029	14,720
Wyoming	NA	17,987	16,412	3,616	3,832	NA
Total	**2,875,182**	**2,980,734**	**3,095,637**	**675,811**	**R715,288**	**R719,087**

See footnotes at end of table.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999	1998				
	January	Total	December	November	October	September
Alabama	17,209	225,062	15,857	17,492	18,337	17,335
Alaska	6,304	NA	NA	NA	NA	5,699
Arizona	2,360	28,209	2,609	2,384	2,522	2,078
Arkansas	13,070	152,073	13,073	12,033	12,433	13,055
California	62,625	729,514	64,279	60,200	61,870	65,490
Colorado	4,603	NA	6,739	5,399	4,683	4,230
Connecticut	2,985	32,455	2,815	2,641	2,571	2,417
Delaware	1,887	16,137	1,522	1,415	1,412	1,182
District of Columbia	0	0	0	0	0	0
Florida	11,107	138,914	11,116	11,473	10,774	11,553
Georgia	12,054	151,146	12,615	13,015	11,895	8,274
Hawaii	0	0	0	0	0	0
Idaho [a]	2,802	34,263	2,632	2,799	2,712	2,701
Illinois	34,159	306,290	29,103	28,080	25,507	21,840
Indiana	NA	NA	28,078	NA	NA	NA
Iowa	11,884	110,576	9,466	9,960	9,295	7,469
Kansas	NA	NA	NA	13,258	12,280	9,502
Kentucky	9,312	R91,562	R8,151	R7,945	7,705	6,695
Louisiana	84,900	NA	95,190	71,246	NA	84,209
Maine	293	NA	201	NA	224	190
Maryland	2,727	37,610	3,483	2,959	3,650	3,040
Massachusetts	8,789	NA	NA	8,152	8,006	NA
Michigan	29,100	301,398	26,840	25,540	22,636	18,483
Minnesota	10,867	R102,614	9,222	9,226	8,990	R7,579
Mississippi	NA	NA	6,841	6,278	6,419	R6,052
Missouri	6,624	R64,976	5,897	4,744	5,194	4,581
Montana	1,790	R17,137	1,771	1,563	1,400	1,206
Nebraska	3,432	R37,472	2,255	R2,620	2,673	R2,315
Nevada	3,016	28,532	2,986	2,730	2,836	1,793
New Hampshire	526	NA	484	NA	555	476
New Jersey	NA	NA	NA	NA	NA	NA
New Mexico	NA	40,139	3,636	3,439	3,627	3,805
New York	NA	NA	NA	NA	NA	NA
North Carolina	9,967	115,082	9,524	9,456	9,423	8,986
North Dakota	1,434	20,912	1,840	1,712	1,110	1,655
Ohio	33,472	NA	31,615	28,292	27,630	24,368
Oklahoma	14,670	191,012	12,040	12,518	17,337	19,543
Oregon	9,403	NA	9,024	8,625	8,988	8,452
Pennsylvania	21,860	231,500	21,066	18,945	18,082	17,892
Rhode Island	2,033	NA	2,179	2,165	2,196	1,963
South Carolina	8,877	104,878	9,241	9,092	8,837	8,475
South Dakota	545	5,510	573	554	294	411
Tennessee	13,193	NA	12,892	12,705	13,618	12,499
Texas	169,095	NA	210,615	187,889	NA	151,722
Utah	3,703	45,366	3,830	3,533	3,432	3,192
Vermont	220	2,105	202	181	179	154
Virginia	5,632	R93,999	7,488	7,847	8,947	8,135
Washington	NA	NA	NA	NA	NA	NA
West Virginia	4,141	NA	4,262	NA	2,618	NA
Wisconsin	17,907	140,446	14,588	12,952	11,284	9,610
Wyoming	4,359	R51,702	R4,597	R4,480	R4,320	R3,888
Total	**764,996**	**R8,605,488**	**R793,009**	**R725,574**	**R707,698**	**R671,446**

See footnotes at end of table.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998					
	August	July	June	May	April	March
Alabama	19,366	18,324	19,075	19,854	19,308	20,569
Alaska	NA	6,542	6,251	5,854	6,455	6,878
Arizona	2,508	2,307	2,034	2,313	2,281	2,413
Arkansas	13,027	12,613	12,419	11,839	12,765	13,363
California	64,310	59,188	53,880	66,080	55,492	47,185
Colorado	5,294	NA	NA	5,649	6,278	6,323
Connecticut	2,455	2,271	2,225	2,546	2,782	3,183
Delaware	1,221	1,097	1,160	1,256	1,348	1,477
District of Columbia	0	0	0	0	0	0
Florida	10,827	11,384	11,469	11,765	11,608	12,960
Georgia	13,484	12,768	13,149	12,501	12,866	13,434
Hawaii	0	0	0	0	0	0
Idaho [a]	2,530	2,620	2,672	2,593	3,047	3,130
Illinois	20,413	20,256	20,738	22,462	26,752	29,211
Indiana	NA	NA	23,465	23,136	25,124	27,772
Iowa	7,741	7,647	7,613	8,097	10,660	11,792
Kansas	13,725	15,481	12,763	11,091	10,661	11,559
Kentucky	6,702	6,738	6,787	7,022	7,543	8,884
Louisiana	85,378	80,693	73,666	75,577	77,970	81,959
Maine	179	153	184	168	[R]180	182
Maryland	3,017	2,988	2,935	3,002	3,094	3,607
Massachusetts	8,134	7,812	NA	7,635	8,209	8,759
Michigan	17,707	18,191	22,705	25,012	26,873	32,052
Minnesota	[R]8,236	7,803	7,855	6,901	8,548	9,039
Mississippi	NA	[R]14,775	NA	NA	NA	NA
Missouri	[R]4,658	[R]4,632	[R]4,773	4,830	5,473	6,788
Montana	1,126	1,215	[R]1,276	1,244	1,521	1,481
Nebraska	4,050	5,853	3,076	2,662	2,543	3,043
Nevada	2,739	2,458	2,337	2,455	2,453	2,174
New Hampshire	NA	438	431	473	457	523
New Jersey	15,840	15,601	14,727	15,723	16,455	17,152
New Mexico	3,556	3,536	3,179	3,131	3,190	2,891
New York	NA	NA	21,404	NA	22,542	26,423
North Carolina	9,283	8,561	9,042	9,439	9,366	10,846
North Dakota	1,625	1,522	1,794	1,961	1,853	1,924
Ohio	23,492	NA	24,008	25,977	29,362	32,257
Oklahoma	18,236	16,672	16,280	13,793	14,388	16,578
Oregon	8,883	8,185	6,767	7,015	NA	NA
Pennsylvania	17,882	17,111	17,926	18,161	19,808	21,699
Rhode Island	2,126	2,121	2,042	NA	2,078	2,117
South Carolina	8,389	7,613	8,464	8,713	8,159	9,121
South Dakota	440	416	307	697	279	474
Tennessee	12,815	11,939	11,714	11,710	12,020	14,188
Texas	164,970	181,812	150,210	154,540	153,724	159,503
Utah	3,040	3,424	3,678	3,668	4,480	4,273
Vermont	135	153	152	164	164	194
Virginia	9,453	[R]9,435	[R]8,103	[R]6,263	7,746	[R]6,391
Washington	NA	NA	NA	NA	NA	NA
West Virginia	NA	2,713	2,734	2,753	4,584	5,091
Wisconsin	9,221	7,967	9,204	9,508	11,658	14,819
Wyoming	[R]4,005	[R]3,983	[R]4,162	[R]4,281	[R]3,305	[R]4,068
Total	**[R]696,504**	**[R]704,815**	**[R]651,483**	**[R]674,225**	**[R]704,131**	**[R]748,515**

See footnotes at end of table.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998		1997			
	February	January	Total	December	November	October
Alabama	18,609	20,935	201,240	19,049	17,956	16,677
Alaska	6,152	6,454	73,599	6,851	5,551	6,290
Arizona	2,226	2,533	27,864	2,678	2,352	2,329
Arkansas	12,114	13,339	147,969	13,294	12,753	12,551
California	67,501	64,039	737,354	64,122	63,615	58,363
Colorado	6,388	6,949	73,781	7,037	6,542	5,174
Connecticut	3,149	3,402	34,554	3,438	2,840	2,627
Delaware	1,443	1,604	14,805	1,599	1,331	1,193
District of Columbia	0	0	0	0	0	0
Florida	11,053	12,931	130,816	11,157	10,619	10,628
Georgia	13,335	13,808	174,747	13,568	12,922	13,369
Hawaii	0	0	342	342	0	0
Idaho [a]	3,482	3,344	34,999	3,158	3,109	3,226
Illinois	28,719	33,208	317,755	30,894	27,921	24,667
Indiana	25,847	28,857	290,723	27,648	28,003	24,659
Iowa	9,516	11,321	107,463	10,549	9,896	9,571
Kansas	10,398	12,908	112,089	11,682	8,483	8,107
Kentucky	7,550	9,839	95,724	9,220	8,729	8,508
Louisiana	74,500	82,928	1,004,383	84,522	82,180	87,977
Maine	182	202	2,525	218	299	246
Maryland	2,764	3,069	65,954	13,535	4,361	4,427
Massachusetts	8,443	9,923	108,295	8,984	8,165	7,916
Michigan	31,380	33,980	338,456	33,117	28,965	25,006
Minnesota	10,044	9,171	107,338	10,132	10,200	9,130
Mississippi	6,814	NA	83,967	7,562	7,751	7,063
Missouri	6,360	7,047	71,164	6,842	6,397	5,161
Montana	1,449	1,884	18,766	2,120	1,900	1,656
Nebraska	2,902	3,481	44,418	5,064	2,736	3,638
Nevada	1,979	1,593	28,925	2,330	2,316	2,512
New Hampshire	498	481	5,830	468	442	499
New Jersey	17,655	18,980	202,418	18,335	15,921	15,505
New Mexico	2,895	3,254	40,854	3,528	3,319	3,092
New York	NA	NA	305,521	26,822	26,731	20,891
North Carolina	10,404	10,752	111,513	9,830	10,055	9,948
North Dakota	1,844	2,072	20,580	1,975	1,525	1,556
Ohio	31,779	35,912	335,993	31,923	29,457	26,118
Oklahoma	17,131	16,497	206,677	16,693	15,943	15,546
Oregon	8,744	9,760	90,403	9,751	8,789	8,242
Pennsylvania	20,811	22,115	238,220	21,967	21,958	17,472
Rhode Island	2,011	2,173	24,472	2,179	2,148	1,509
South Carolina	9,129	9,645	102,929	9,226	8,685	8,238
South Dakota	500	565	6,928	606	618	424
Tennessee	12,628	NA	138,877	12,776	11,768	11,228
Texas	148,544	169,452	2,058,755	169,958	167,175	167,787
Utah	4,080	4,735	44,162	4,492	4,116	4,216
Vermont	205	223	2,334	235	226	223
Virginia	7,444	6,747	85,264	8,128	7,094	5,989
Washington	NA	NA	111,159	12,255	10,247	9,459
West Virginia	4,659	5,054	57,380	5,201	4,824	4,640
Wisconsin	13,298	16,337	155,677	15,154	14,492	12,184
Wyoming	[R]5,457	5,156	46,936	4,066	4,296	3,889
Total	**[R]731,632**	**796,456**	**8,842,896**	**796,281**	**747,720**	**711,325**

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

[R] Revised Data.

NA Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 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

Table 18. Natural Gas Deliveries to Electric Utility[a] Consumers, by State, 1997-1999

(Million Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999		
				April	March	February
Alabama	3,283	1,197	835	1,247	925	550
Alaska	10,032	9,842	12,228	2,282	2,499	2,519
Arizona	10,703	3,608	1,988	4,483	2,013	1,783
Arkansas	6,553	4,325	1,686	2,579	2,034	1,376
California	78,215	86,434	81,522	18,722	19,915	19,517
Colorado	3,685	1,816	1,242	1,125	1,141	981
Connecticut	237	1,425	3,591	84	123	1
Delaware	4,404	1,352	7,934	673	1,687	912
District of Columbia	0	0	0	0	0	0
Florida	75,722	68,564	84,253	28,221	18,961	13,119
Georgia	3,301	349	266	3,046	220	20
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	11,984	16,253	10,225	5,295	2,863	1,357
Indiana	1,400	902	701	403	332	147
Iowa	875	974	1,087	348	189	193
Kansas	8,417	2,413	2,376	3,740	2,451	1,042
Kentucky	866	613	438	196	142	90
Louisiana	85,775	59,278	63,322	25,149	21,653	17,481
Maine	0	0	0	0	0	0
Maryland	2,253	1,158	2,047	1,382	289	138
Massachusetts	1,348	6,686	16,248	763	412	51
Michigan	14,632	13,016	8,920	4,041	3,881	3,061
Minnesota	1,319	688	2,092	438	437	151
Mississippi	24,799	14,181	11,887	10,077	4,296	4,678
Missouri	2,558	585	388	1,436	279	310
Montana	72	55	125	9	4	5
Nebraska	546	288	359	344	118	44
Nevada	17,363	13,761	10,168	4,813	4,274	3,699
New Hampshire	49	26	1	0	16	0
New Jersey	2,708	4,029	5,728	658	686	343
New Mexico	10,777	10,255	9,365	3,104	2,789	2,322
New York	43,352	46,505	44,028	14,099	12,815	8,397
North Carolina	483	115	36	421	25	3
North Dakota	0	0	0	0	0	0
Ohio	2,774	696	376	1,158	971	333
Oklahoma	43,785	28,858	24,751	13,186	12,492	7,519
Oregon	3,756	6,170	468	1,069	219	936
Pennsylvania	964	1,149	1,248	284	315	105
Rhode Island	0	7,704	8,142	0	0	0
South Carolina	192	186	99	109	48	21
South Dakota	756	144	170	279	232	120
Tennessee	141	0	0	141	0	0
Texas	300,639	266,395	234,557	97,047	81,573	55,651
Utah	1,401	668	618	341	392	337
Vermont	16	120	10	2	6	2
Virginia	7,489	3,223	2,734	1,812	2,093	1,918
Washington	578	771	14	503	6	40
West Virginia	115	100	67	29	35	24
Wisconsin	2,319	2,270	6,860	553	568	648
Wyoming	40	218	28	4	13	14
Total	**792,673**	**689,365**	**665,226**	**255,694**	**206,430**	**151,958**

See footnotes at end of table.

Table 18. Natural Gas Deliveries to Electric Utility[a] Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999	1998				
	January	Total	December	November	October	September
Alabama	561	25,546	789	568	973	4,213
Alaska	2,733	28,784	2,957	2,669	2,190	2,402
Arizona	2,424	38,674	3,738	2,716	4,777	6,200
Arkansas	564	40,576	367	122	1,753	6,764
California	20,060	271,154	17,740	20,126	25,310	31,816
Colorado	438	10,627	918	1,046	684	1,378
Connecticut	29	10,719	123	9	209	1,605
Delaware	1,131	11,135	911	1,152	985	1,319
District of Columbia	0	0	0	0	0	0
Florida	15,422	281,346	17,667	18,413	28,024	27,465
Georgia	16	22,371	259	337	741	3,350
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	2,470	56,337	1,469	1,465	1,426	6,084
Indiana	517	9,096	237	172	389	957
Iowa	145	5,947	144	147	177	1,099
Kansas	1,184	36,896	1,679	2,097	1,602	6,109
Kentucky	438	5,760	136	151	206	978
Louisiana	21,493	318,395	18,345	20,877	24,381	36,591
Maine	0	0	0	0	0	0
Maryland	444	12,303	499	188	232	2,565
Massachusetts	122	18,427	725	777	918	1,127
Michigan	3,649	48,321	3,449	3,163	3,934	5,415
Minnesota	294	7,738	120	268	504	1,538
Mississippi	5,748	76,362	4,126	3,553	4,004	9,141
Missouri	533	16,035	515	521	228	3,067
Montana	53	522	36	33	48	69
Nebraska	40	5,044	106	35	154	955
Nevada	4,578	60,937	5,362	4,649	5,732	6,460
New Hampshire	32	149	0	25	0	0
New Jersey	1,022	30,996	792	804	376	3,446
New Mexico	2,563	39,034	2,876	2,246	2,708	3,782
New York	8,041	208,348	10,911	8,116	15,872	20,464
North Carolina	34	12,418	36	29	136	2,132
North Dakota	0	0	0	0	0	0
Ohio	312	7,663	351	170	272	1,333
Oklahoma	10,588	174,577	13,066	11,482	11,983	21,106
Oregon	1,532	28,883	3,009	4,188	3,701	4,014
Pennsylvania	261	6,890	357	98	220	561
Rhode Island	0	15,589	0	0	0	0
South Carolina	14	5,893	42	97	72	919
South Dakota	125	2,865	189	190	61	366
Tennessee	0	6,213	0	0	190	1,860
Texas	66,368	1,242,574	71,865	61,712	95,036	143,064
Utah	331	5,945	493	165	648	1,206
Vermont	5	188	4	3	7	11
Virginia	1,666	20,386	757	625	1,435	3,323
Washington	28	13,352	635	1,742	3,318	2,749
West Virginia	27	417	25	56	52	20
Wisconsin	550	16,348	730	589	486	2,044
Wyoming	9	271	5	6	13	9
Total	**178,592**	**3,258,054**	**188,557**	**177,596**	**246,171**	**381,075**

See footnotes at end of table.

Table 18. Natural Gas Deliveries to Electric Utility[a] Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998					
	August	July	June	May	April	March
Alabama	5,129	5,071	4,763	2,843	296	382
Alaska	2,038	2,163	2,102	2,420	2,274	2,391
Arizona	8,185	6,791	1,986	674	1,127	718
Arkansas	8,176	7,022	6,618	5,431	2,262	1,507
California	34,624	26,020	15,338	13,746	18,053	23,365
Colorado	1,419	1,763	914	690	581	412
Connecticut	2,672	1,582	1,708	1,385	157	23
Delaware	1,672	1,648	1,196	900	548	475
District of Columbia	0	0	0	0	0	0
Florida	29,246	31,965	33,183	26,818	15,852	18,011
Georgia	5,027	5,457	4,959	1,891	41	149
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	7,669	7,640	7,325	7,006	4,790	3,985
Indiana	1,695	1,911	1,732	1,102	231	427
Iowa	1,049	933	749	674	288	237
Kansas	7,062	7,713	5,133	3,088	575	891
Kentucky	1,060	649	950	1,017	107	282
Louisiana	44,636	43,677	38,806	31,804	18,072	16,190
Maine	0	0	0	0	0	0
Maryland	3,146	2,186	1,396	932	373	371
Massachusetts	1,965	1,404	2,164	2,661	1,575	1,561
Michigan	5,520	4,553	5,074	4,196	3,582	3,735
Minnesota	1,461	1,389	979	792	264	202
Mississippi	11,125	10,887	10,629	8,715	4,398	3,920
Missouri	3,997	3,750	2,425	947	208	160
Montana	83	80	26	89	15	39
Nebraska	1,161	1,022	702	621	173	58
Nevada	8,818	8,189	4,036	3,932	3,926	2,925
New Hampshire	26	37	35	0	0	0
New Jersey	6,216	7,105	4,303	3,925	1,248	1,835
New Mexico	4,850	5,283	4,019	3,015	3,446	3,091
New York	34,201	29,277	24,080	18,922	9,089	10,407
North Carolina	3,116	2,041	3,788	1,026	12	91
North Dakota	0	0	0	0	0	0
Ohio	1,426	1,307	1,103	1,005	179	307
Oklahoma	26,807	26,740	20,703	13,832	7,905	9,348
Oregon	3,781	3,008	835	176	2,265	1,334
Pennsylvania	455	1,411	2,017	622	260	406
Rhode Island	2,251	2,238	1,453	1,943	1,606	1,888
South Carolina	1,237	1,239	1,413	687	37	105
South Dakota	608	627	315	366	33	42
Tennessee	1,123	1,407	1,202	432	0	0
Texas	161,408	174,322	153,383	115,390	82,922	80,353
Utah	1,323	1,126	160	157	153	177
Vermont	8	15	7	12	6	3
Virginia	3,645	2,969	2,253	2,157	698	1,196
Washington	3,470	621	33	14	152	121
West Virginia	34	53	46	30	22	29
Wisconsin	2,338	3,059	2,554	2,279	394	1,106
Wyoming	1	5	10	6	8	3
Total	**456,960**	**449,354**	**378,607**	**290,368**	**190,201**	**194,258**

See footnotes at end of table.

Table 18. Natural Gas Deliveries to Electric Utility[a] Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998		1997			
	February	January	Total	December	November	October
Alabama	157	362	9,997	87	295	846
Alaska	2,316	2,862	33,510	3,013	2,668	2,680
Arizona	803	961	23,385	752	399	1,542
Arkansas	269	286	24,805	294	375	2,293
California	18,272	26,743	377,946	26,274	22,422	35,151
Colorado	446	377	5,536	450	385	641
Connecticut	109	1,135	16,761	554	1,446	2,234
Delaware	74	255	16,092	699	681	356
District of Columbia	0	0	0	0	0	0
Florida	15,630	19,071	296,903	21,491	14,278	21,229
Georgia	57	102	7,342	49	124	308
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	3,502	3,977	44,607	5,018	3,906	3,795
Indiana	129	115	4,661	137	211	281
Iowa	195	255	4,124	208	252	459
Kansas	426	521	25,822	1,991	2,478	2,643
Kentucky	138	86	2,194	158	190	200
Louisiana	9,854	15,161	277,438	16,781	14,535	22,047
Maine	0	0	0	0	0	0
Maryland	222	191	11,007	209	364	749
Massachusetts	1,316	2,235	51,490	2,411	3,176	3,245
Michigan	2,480	3,218	33,287	3,028	3,135	3,242
Minnesota	104	118	6,098	112	139	382
Mississippi	2,774	3,090	73,083	4,573	4,060	5,428
Missouri	80	137	7,465	310	340	557
Montana	0	1	420	21	30	40
Nebraska	21	36	2,656	34	77	354
Nevada	3,377	3,532	51,777	3,648	1,803	4,364
New Hampshire	26	0	564	34	26	0
New Jersey	419	528	29,534	552	1,340	2,085
New Mexico	1,801	1,917	33,375	1,998	2,224	3,224
New York	10,285	16,724	217,504	14,287	12,326	16,084
North Carolina	1	11	4,512	3	25	507
North Dakota	0	0	1	0	0	0
Ohio	96	114	3,486	122	245	396
Oklahoma	5,179	6,427	128,818	11,401	8,233	10,061
Oregon	1,101	1,470	10,680	1,917	1,075	990
Pennsylvania	257	225	7,370	365	212	301
Rhode Island	1,599	2,612	27,160	2,602	2,488	2,503
South Carolina	11	33	2,731	35	112	240
South Dakota	6	63	1,731	83	90	45
Tennessee	0	0	1,636	0	0	209
Texas	48,953	54,167	1,056,550	69,566	72,391	90,883
Utah	164	174	4,078	177	173	134
Vermont	47	65	36	4	2	4
Virginia	476	852	11,572	851	353	732
Washington	5	492	2,618	187	220	164
West Virginia	29	21	219	11	2	17
Wisconsin	352	418	15,776	467	400	743
Wyoming	200	7	95	15	15	5
Total	**133,757**	**171,149**	**2,968,453**	**196,980**	**179,723**	**244,394**

[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, 1997-1999

(Million Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999		
				April	March	February
Alabama	115,069	125,949	109,737	25,408	31,445	27,246
Alaska	53,457	53,321	56,868	11,807	13,666	13,158
Arizona	52,398	49,008	41,385	13,298	11,069	13,011
Arkansas	93,755	93,895	91,712	20,542	23,155	21,807
California	733,619	697,076	634,209	162,356	169,377	194,473
Colorado	127,679	124,888	126,600	28,176	28,762	32,456
Connecticut	56,250	55,067	59,271	9,935	14,524	15,078
Delaware	21,096	15,306	21,961	4,066	6,212	5,203
District of Columbia	18,160	16,787	17,300	3,245	4,658	4,857
Florida	144,178	141,311	148,429	45,367	37,194	28,874
Georgia	115,385	145,181	147,413	20,327	28,558	30,600
Hawaii	786	810	838	193	R186	R205
Idaho	28,694	27,848	26,804	6,275	7,004	7,448
Illinois	478,971	444,288	509,467	76,416	118,510	118,464
Indiana	NA	NA	246,080	46,973	NA	R60,327
Iowa	109,350	109,629	112,170	19,867	25,822	26,622
Kansas	NA	128,211	100,618	22,816	R28,740	R28,075
Kentucky	88,340	83,511	90,253	14,449	23,759	21,978
Louisiana	443,890	416,789	433,444	111,290	112,180	100,272
Maine	2,603	2,504	2,689	435	676	578
Maryland	NA	79,862	87,499	16,988	NA	R22,274
Massachusetts	NA	146,823	168,232	30,951	NA	34,771
Michigan	427,480	410,250	459,822	75,564	112,050	107,362
Minnesota	154,993	141,403	163,001	24,400	36,599	41,064
Mississippi	NA	NA	66,174	21,044	18,227	18,533
Missouri	NA	130,930	143,835	21,771	30,549	NA
Montana	22,808	22,511	25,689	4,575	5,108	5,688
Nebraska	49,940	53,561	61,057	7,337	11,831	12,934
Nevada	53,601	48,272	42,848	12,142	12,810	13,191
New Hampshire	10,153	9,387	9,848	1,909	2,539	2,590
New Jersey	NA	248,812	284,419	41,440	NA	NA
New Mexico	NA	57,745	57,361	14,667	18,599	16,409
New York	NA	NA	500,475	89,223	NA	NA
North Carolina	96,114	95,040	87,194	18,182	28,489	21,832
North Dakota	19,784	19,093	20,897	3,371	4,608	5,967
Ohio	410,304	379,206	415,156	72,247	108,903	107,908
Oklahoma	159,739	160,757	162,977	36,362	38,033	37,020
Oregon	81,193	NA	60,316	16,579	23,934	R18,855
Pennsylvania	297,810	NA	308,901	54,080	77,564	79,300
Rhode Island	24,188	NA	33,581	4,950	6,152	6,077
South Carolina	63,223	63,184	56,581	14,264	17,294	14,128
South Dakota	14,790	13,742	16,690	2,779	3,307	3,646
Tennessee	113,704	NA	113,525	19,638	27,924	28,158
Texas	1,078,004	1,096,430	1,151,849	259,945	256,140	255,885
Utah	57,384	61,475	60,244	12,336	12,602	15,610
Vermont	3,980	3,921	3,967	756	1,017	1,023
Virginia	110,318	99,242	98,460	22,879	29,725	28,564
Washington	NA	NA	79,466	22,459	NA	NA
West Virginia	NA	49,026	51,284	8,508	NA	11,950
Wisconsin	178,650	162,600	188,587	28,958	43,610	44,128
Wyoming	NA	NA	28,448	5,772	6,239	NA
Total	**7,838,984**	**7,677,708**	**7,985,631**	**1,609,317**	**R1,953,880**	**R1,943,262**

See footnotes at end of table.

Table 19. Natural Gas Deliveries to All Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1999	1998				
	January	Total	December	November	October	September
Alabama	30,970	R322,428	23,534	22,229	21,862	23,797
Alaska	14,826	R147,720	R14,986	R13,057	R12,401	R10,543
Arizona	15,019	134,452	14,346	9,433	10,323	10,941
Arkansas	28,252	R258,810	R21,517	R17,104	R16,907	R22,026
California	207,412	1,870,106	186,227	151,474	140,054	146,001
Colorado	38,285	NA	29,840	19,959	12,965	11,011
Connecticut	16,712	121,350	12,418	9,164	6,999	6,999
Delaware	5,616	40,707	3,961	3,589	2,871	2,857
District of Columbia	5,400	30,373	3,293	2,293	1,340	1,176
Florida	R32,743	473,751	33,549	33,673	42,172	42,145
Georgia	35,900	335,333	33,189	26,768	19,977	17,087
Hawaii	R202	R2,291	R195	R183	R172	R181
Idaho	7,967	61,955	6,707	5,353	3,948	3,405
Illinois	165,581	943,171	119,331	90,632	58,574	44,996
Indiana	80,594	NA	NA	NA	NA	NA
Iowa	37,039	229,735	26,120	20,707	14,907	11,196
Kansas	NA	NA	NA	25,994	18,590	19,008
Kentucky	28,154	R187,099	R22,577	R17,607	11,855	9,983
Louisiana	120,148	1,352,234	120,734	96,548	106,790	123,820
Maine	913	NA	670	NA	452	295
Maryland	26,960	NA	19,949	13,189	NA	NA
Massachusetts	28,117	NA	NA	NA	18,469	NA
Michigan	132,504	831,885	93,042	73,532	51,240	37,220
Minnesota	52,930	R305,034	40,705	30,638	20,204	R14,547
Mississippi	NA	NA	15,794	13,000	12,479	R17,349
Missouri	45,831	R253,255	27,398	17,749	11,162	12,462
Montana	7,437	NA	6,569	4,937	3,509	2,167
Nebraska	17,838	R111,685	10,494	R8,245	5,476	R5,090
Nevada	15,458	142,541	15,210	11,727	11,223	10,166
New Hampshire	3,115	NA	2,033	NA	1,219	857
New Jersey	NA	NA	NA	NA	NA	NA
New Mexico	NA	145,612	18,414	11,763	8,914	9,670
New York	NA	NA	NA	NA	NA	NA
North Carolina	27,610	215,593	19,245	16,376	12,630	13,759
North Dakota	5,837	41,491	4,685	3,789	2,153	2,186
Ohio	121,245	NA	96,741	73,111	50,727	36,525
Oklahoma	48,324	R475,813	38,388	31,239	32,913	43,899
Oregon	21,825	NA	21,167	18,653	15,418	14,253
Pennsylvania	86,866	NA	64,611	50,045	35,333	NA
Rhode Island	7,008	NA	5,371	4,569	3,454	2,871
South Carolina	17,536	155,973	14,080	12,475	10,663	10,940
South Dakota	5,058	29,298	3,736	2,814	1,250	1,294
Tennessee	37,984	NA	27,441	21,469	17,987	18,058
Texas	306,033	NA	337,337	281,351	NA	317,245
Utah	16,835	138,895	19,052	12,689	10,621	7,336
Vermont	1,184	7,726	895	673	453	403
Virginia	29,151	NA	24,374	NA	16,165	15,462
Washington	NA	NA	NA	NA	NA	NA
West Virginia	14,254	NA	11,062	NA	5,905	NA
Wisconsin	61,954	354,578	45,711	33,445	22,491	17,723
Wyoming	7,653	NA	R7,888	R6,622	R5,539	R4,608
Total	**R2,332,525**	**R19,382,524**	**R1,963,489**	**R1,554,421**	**R1,331,199**	**R1,317,879**

See footnotes at end of table.

Table 19. Natural Gas Deliveries to All Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998					
	August	July	June	May	April	March
Alabama	26,659	25,628	26,343	R26,426	R26,483	31,953
Alaska	R11,125	R10,602	R10,497	R11,188	R12,197	R13,409
Arizona	13,309	12,050	7,467	7,574	10,115	12,000
Arkansas	R23,462	R22,054	R21,418	R20,424	R19,833	24,783
California	150,877	137,487	120,557	140,354	150,887	151,877
Colorado	11,521	NA	NA	18,653	24,714	31,312
Connecticut	8,154	7,337	7,280	7,933	10,871	13,255
Delaware	3,234	3,131	2,833	2,924	3,298	4,029
District of Columbia	1,174	1,242	1,348	1,720	3,025	4,064
Florida	43,287	46,686	48,216	42,712	32,793	36,977
Georgia	23,974	23,938	24,020	21,199	25,805	37,286
Hawaii	R195	R179	R195	R181	R194	R189
Idaho	3,203	3,429	3,876	4,186	5,684	6,585
Illinois	45,191	42,646	46,294	51,218	79,882	110,448
Indiana	NA	NA	NA	32,766	NA	62,621
Iowa	11,442	11,556	11,035	13,144	20,373	30,248
Kansas	24,716	27,485	22,388	21,123	23,512	35,146
Kentucky	10,000	9,770	10,292	11,505	14,076	21,967
Louisiana	132,986	127,464	115,782	111,320	101,827	108,413
Maine	278	251	305	335	R447	633
Maryland	11,097	9,929	9,573	10,440	14,048	20,680
Massachusetts	15,853	16,112	NA	NA	29,252	36,404
Michigan	35,808	35,320	43,847	51,625	77,976	106,021
Minnesota	R14,473	13,755	14,572	14,737	21,645	37,304
Mississippi	NA	R27,747	NA	NA	NA	NA
Missouri	R13,878	R13,262	R12,678	13,736	21,662	33,689
Montana	2,102	2,176	R2,835	NA	4,240	5,477
Nebraska	7,095	8,959	5,832	6,933	9,827	13,611
Nevada	13,421	12,929	9,447	10,147	11,412	11,550
New Hampshire	NA	871	NA	1,226	1,776	2,238
New Jersey	32,663	33,936	31,639	41,615	46,964	65,242
New Mexico	10,465	10,814	8,579	9,248	11,952	14,536
New York	NA	NA	NA	NA	82,450	NA
North Carolina	14,953	13,148	15,680	14,761	17,721	23,352
North Dakota	2,187	2,043	2,397	2,958	3,759	4,760
Ohio	36,235	NA	NA	45,666	67,612	98,219
Oklahoma	48,285	R46,660	40,664	33,009	32,165	43,105
Oregon	14,248	13,185	10,671	10,944	NA	NA
Pennsylvania	NA	28,412	31,355	34,777	NA	72,422
Rhode Island	5,009	5,305	4,612	NA	NA	7,899
South Carolina	11,109	10,338	11,503	11,680	12,349	15,673
South Dakota	1,538	1,600	1,209	2,114	2,244	3,588
Tennessee	17,415	17,040	16,972	17,809	21,904	31,153
Texas	348,252	380,407	320,879	R293,029	266,948	287,964
Utah	6,535	6,659	6,949	7,578	12,236	14,719
Vermont	301	325	347	409	716	918
Virginia	16,133	R16,568	R14,775	R14,601	18,955	R25,084
Washington	NA	NA	NA	NA	NA	NA
West Virginia	NA	5,737	NA	NA	9,625	12,819
Wisconsin	17,737	16,504	18,699	19,667	27,883	44,074
Wyoming	R4,536	R4,661	R5,103	R5,536	R5,357	R6,765
Total	**R1,419,231**	**R1,433,393**	**R1,325,107**	**R1,360,097**	**R1,559,597**	**R1,952,816**

See footnotes at end of table.

Table 19. Natural Gas Deliveries to All Consumers, by State, 1997-1999

(Million Cubic Feet) — Continued

State	1998		1997			
	February	January	Total	December	November	October
Alabama	31,998	35,514	292,094	30,822	24,666	20,865
Alaska	R12,865	R14,850	149,164	15,172	12,560	13,113
Arizona	12,168	14,725	112,590	11,575	6,994	6,675
Arkansas	23,126	26,153	244,644	23,947	19,854	17,536
California	190,770	203,541	1,850,248	185,860	147,134	137,655
Colorado	32,169	36,693	263,988	34,668	23,250	12,664
Connecticut	14,383	16,557	134,557	15,769	11,812	9,002
Delaware	3,776	4,203	46,480	4,356	3,196	2,086
District of Columbia	4,747	4,951	33,824	4,795	2,768	1,452
Florida	32,918	38,623	477,601	38,205	29,083	35,159
Georgia	39,542	42,548	353,700	41,536	35,681	23,924
Hawaii	R203	R224	2,611	552	78	191
Idaho	7,284	8,295	61,707	7,186	5,519	4,449
Illinois	107,822	146,135	1,062,463	132,707	110,989	70,209
Indiana	57,103	68,716	546,337	64,388	54,190	37,412
Iowa	25,934	33,073	243,476	30,016	24,461	17,115
Kansas	31,669	37,884	248,563	29,528	22,869	14,839
Kentucky	21,257	26,211	202,583	26,707	21,185	14,189
Louisiana	95,623	110,927	1,360,160	112,335	102,939	113,454
Maine	647	777	6,247	735	694	488
Maryland	21,403	23,731	204,319	31,410	17,582	11,557
Massachusetts	38,346	42,821	377,911	38,594	30,037	22,843
Michigan	106,501	119,753	943,881	112,039	89,089	55,893
Minnesota	36,305	46,150	334,572	39,996	36,158	21,195
Mississippi	17,461	NA	206,749	19,424	16,400	14,616
Missouri	34,873	40,706	276,124	35,740	25,019	12,114
Montana	5,313	7,480	54,114	7,361	5,273	3,728
Nebraska	13,802	16,321	128,031	14,339	10,024	7,229
Nevada	12,082	13,229	127,969	12,443	7,850	9,176
New Hampshire	2,585	2,788	20,822	2,445	1,788	1,237
New Jersey	66,099	70,507	617,638	73,183	53,491	35,294
New Mexico	12,873	18,385	142,353	18,573	12,587	8,917
New York	NA	NA	1,220,113	123,888	101,134	75,512
North Carolina	25,906	28,061	206,940	24,543	18,390	13,802
North Dakota	4,840	5,735	42,826	4,737	3,787	2,549
Ohio	99,777	113,599	878,124	107,489	83,928	55,298
Oklahoma	40,820	44,667	452,453	45,168	34,038	29,638
Oregon	17,735	21,237	159,105	19,704	14,600	12,135
Pennsylvania	75,456	75,438	652,219	79,772	62,794	40,047
Rhode Island	7,949	9,351	82,100	8,703	7,312	5,308
South Carolina	17,097	18,065	150,962	16,582	12,978	10,282
South Dakota	3,464	4,445	32,289	3,735	3,069	1,556
Tennessee	28,238	NA	259,773	32,226	23,385	15,919
Texas	252,419	289,099	3,566,640	301,259	280,454	282,035
Utah	16,672	17,848	137,605	20,196	13,494	10,669
Vermont	1,085	1,202	8,052	988	723	529
Virginia	27,386	27,818	232,674	30,339	20,442	13,107
Washington	NA	NA	222,391	30,513	25,964	15,906
West Virginia	12,904	13,678	119,512	14,615	11,696	7,894
Wisconsin	39,113	51,530	396,055	47,139	41,199	26,442
Wyoming	R8,505	NA	70,797	7,494	6,457	5,066
Total	**R1,940,935**	**R2,224,359**	**20,018,151**	**2,135,495**	**1,731,064**	**1,379,970**

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, 1997-1999

(Dollars per Thousand Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999				1998
				April	March	February	January	Total
Alabama	2.68	3.08	3.86	2.70	2.65	2.79	2.62	3.26
Alaska	1.33	1.73	1.84	1.32	1.33	1.34	1.32	NA
Arizona	2.22	2.48	3.16	2.39	2.18	2.19	2.17	2.55
Arkansas	2.85	3.02	3.31	2.71	2.58	3.40	2.69	2.94
California	2.19	2.30	3.05	2.17	2.07	2.25	2.23	2.38
Colorado	1.86	NA	3.17	1.14	1.84	2.07	2.21	NA
Connecticut	4.61	5.24	5.46	4.87	4.57	4.74	4.44	5.06
Delaware	3.46	2.76	4.10	3.12	3.33	3.68	3.63	3.01
District of Columbia	0.00	0.00	0.00	—	—	—	—	0.00
Florida	3.17	3.52	4.27	2.99	3.11	3.24	3.30	3.36
Georgia	3.74	3.48	4.09	3.11	3.33	3.47	4.61	3.51
Hawaii	4.69	5.90	6.88	4.68	4.53	4.47	5.07	5.33
Idaho	1.84	1.90	2.14	1.94	1.82	1.92	1.76	1.96
Illinois	2.54	2.82	3.19	2.63	2.51	2.59	2.49	2.75
Indiana	NA	NA	3.14	2.11	NA	2.26	2.11	NA
Iowa	2.81	3.52	3.51	3.03	2.77	3.02	2.62	3.48
Kansas	NA	3.00	3.48	2.54	NA	NA	NA	3.05
Kentucky	3.14	3.28	3.75	3.73	2.79	3.10	3.35	3.22
Louisiana	2.18	2.48	3.20	2.14	2.16	2.19	2.20	NA
Maine	3.48	3.25	4.17	5.48	3.05	2.84	3.27	NA
Maryland	NA	3.46	3.78	3.48	NA	NA	2.82	NA
Massachusetts	NA	3.47	3.71	4.56	NA	NA	NA	NA
Michigan	2.83	2.90	3.17	2.75	2.79	3.02	2.79	2.80
Minnesota	2.67	3.05	3.47	2.49	2.70	2.84	2.60	3.02
Mississippi	NA	NA	3.54	2.85	2.97	2.92	NA	NA
Missouri	2.76	3.06	3.53	3.43	2.75	2.89	2.49	3.32
Montana	2.73	2.50	3.34	2.39	2.98	2.70	2.75	R2.39
Nebraska	2.97	3.38	3.59	2.94	2.90	3.11	2.90	3.23
Nevada	2.37	3.07	3.48	2.13	2.31	2.54	2.42	3.02
New Hampshire	3.54	3.73	4.24	3.59	3.24	3.56	3.73	NA
New Jersey	NA	3.70	4.11	4.26	NA	NA	NA	NA
New Mexico	2.02	2.16	2.63	1.81	1.98	2.08	2.13	2.07
New York	NA	NA	3.47	2.47	NA	NA	NA	NA
North Carolina	2.99	3.60	4.03	3.25	2.73	3.00	3.11	3.49
North Dakota	2.74	2.89	3.34	2.57	2.58	2.84	2.85	R2.81
Ohio	4.74	4.69	5.32	7.73	4.43	4.62	4.22	4.66
Oklahoma	2.89	2.58	3.27	2.35	2.36	5.21	2.41	2.55
Oregon	2.58	NA	2.35	2.66	2.59	2.68	2.43	NA
Pennsylvania	3.31	NA	3.89	3.62	3.26	3.41	3.15	NA
Rhode Island	3.31	NA	4.00	4.09	3.06	3.20	3.32	NA
South Carolina	3.08	3.32	3.71	3.43	2.86	3.09	3.14	0.82
South Dakota	3.27	3.29	3.60	3.37	3.25	3.37	3.18	3.23
Tennessee	2.76	NA	3.39	2.59	2.80	2.72	2.85	NA
Texas	2.65	3.01	3.87	2.45	2.38	2.61	2.95	2.92
Utah	2.80	3.30	2.60	2.31	2.76	3.11	2.86	3.22
Vermont	2.95	2.71	2.04	3.07	2.92	3.01	2.85	2.58
Virginia	3.27	3.63	4.09	3.70	3.35	2.97	3.32	3.69
Washington	NA	NA	2.71	2.60	NA	NA	NA	NA
West Virginia	NA	3.06	3.14	3.23	NA	4.00	6.98	NA
Wisconsin	2.69	3.24	3.52	3.11	2.64	2.77	2.52	3.36
Wyoming	3.21	NA	3.25	3.40	2.91	3.49	3.07	NA
Total	**2.83**	**3.20**	**3.62**	**2.89**	**2.67**	**2.94**	**2.86**	**R3.03**

See footnotes at end of table.

Table 20. Average City Gate Price, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998							
	December	November	October	September	August	July	June	May
Alabama	3.16	3.26	3.64	3.43	3.82	3.97	3.86	3.56
Alaska	1.73	NA	1.73	1.71	1.71	1.64	1.67	1.68
Arizona	2.31	2.67	2.61	2.76	2.84	2.85	2.60	2.93
Arkansas	3.13	3.03	2.93	1.88	2.38	3.23	2.31	3.00
California	2.76	2.49	2.22	1.95	2.46	2.39	2.34	2.49
Colorado	2.74	2.18	2.24	NA	2.26	NA	2.43	2.46
Connecticut	5.51	4.54	4.28	4.69	4.87	5.14	4.74	5.08
Delaware	4.10	3.83	3.75	3.76	2.70	2.86	4.35	1.79
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.36	3.66	3.48	2.99	3.10	3.14	2.96	3.15
Georgia	4.34	3.24	3.08	3.37	3.45	3.57	3.01	3.55
Hawaii	5.17	5.14	4.95	5.12	5.06	4.77	4.86	5.21
Idaho	1.86	1.99	1.95	2.38	2.14	2.81	2.18	1.94
Illinois	2.74	2.65	2.43	2.24	2.49	3.16	2.15	3.64
Indiana	2.75	NA	NA	NA	2.53	NA	1.04	2.80
Iowa	2.79	3.05	4.98	4.00	4.29	4.11	1.98	4.17
Kansas	2.79	3.20	2.97	2.83	3.03	3.87	3.66	3.17
Kentucky	3.08	3.19	2.94	3.58	2.85	3.57	3.12	3.33
Louisiana	2.48	2.20	NA	2.01	2.05	2.45	2.19	2.36
Maine	3.10	NA	3.37	2.69	3.21	5.39	NA	NA
Maryland	3.19	3.42	NA	NA	5.86	7.62	5.94	5.58
Massachusetts	NA	3.49	R4.46	R5.82	R5.75	R7.56	R6.87	R5.44
Michigan	3.05	2.86	2.61	2.69	2.79	2.92	2.50	2.69
Minnesota	3.04	3.04	2.74	2.78	3.06	3.31	2.88	3.24
Mississippi	3.14	3.16	R2.91	2.65	R2.67	3.09	2.86	NA
Missouri	2.77	3.12	4.06	4.50	4.61	5.12	4.87	4.47
Montana	2.40	2.57	2.29	2.20	1.87	R2.51	R2.08	2.22
Nebraska	3.10	2.84	3.03	2.90	3.01	3.65	2.98	3.73
Nevada	2.65	2.60	2.48	3.79	4.43	3.75	3.37	3.25
New Hampshire	3.63	3.41	NA	3.34	3.80	4.63	NA	3.36
New Jersey	NA	NA	4.08	5.83	3.75	3.86	3.57	3.00
New Mexico	2.18	2.16	1.75	1.64	1.86	1.94	1.76	2.04
New York	NA	NA	NA	NA	NA	3.34	2.88	NA
North Carolina	3.09	3.16	3.46	3.20	3.43	3.95	3.83	3.66
North Dakota	3.01	3.10	R3.05	2.11	2.49	2.57	2.34	2.74
Ohio	4.32	4.23	6.02	3.55	4.70	5.16	4.75	5.04
Oklahoma	2.54	2.52	2.16	2.73	2.61	2.38	2.51	2.46
Oregon	2.50	2.61	2.72	2.93	3.60	4.13	3.22	2.78
Pennsylvania	3.45	3.48	3.74	5.18	NA	5.50	4.79	3.94
Rhode Island	1.25	4.04	4.02	4.23	R4.66	R4.82	R4.69	R4.68
South Carolina	0.12	3.34	3.49	3.48	3.57	4.09	3.81	3.90
South Dakota	2.69	3.07	2.76	3.91	4.68	4.27	2.91	4.42
Tennessee	3.68	3.57	3.06	2.42	2.77	3.12	3.39	3.40
Texas	3.03	2.85	2.73	2.46	2.70	2.91	2.65	2.97
Utah	3.58	3.07	2.94	3.37	3.48	2.64	2.73	2.62
Vermont	2.52	2.67	1.99	2.26	2.34	2.60	2.69	2.82
Virginia	3.25	3.31	3.80	4.52	5.14	4.51	4.32	4.37
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	3.79	NA	3.48	3.59	NA	NA	NA	NA
Wisconsin	2.84	3.35	3.24	4.97	4.38	4.36	3.82	3.63
Wyoming	4.14	NA	2.88	2.46	2.93	NA	2.53	NA
Total	**2.44**	**3.01**	**R3.03**	**R2.78**	**R3.10**	**R3.42**	**R3.01**	**R3.13**

See footnotes at end of table.

Table 20. Average City Gate Price, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998				1997			
	April	March	February	January	Total	December	November	October
Alabama	3.20	3.03	2.93	3.18	3.65	2.60	3.97	4.17
Alaska	1.71	1.73	1.72	1.75	1.81	1.82	1.82	1.78
Arizona	2.75	2.55	2.28	2.46	3.15	2.53	3.48	3.80
Arkansas	2.96	3.13	2.85	3.09	3.23	3.19	3.44	3.61
California	2.33	2.38	2.12	2.35	2.98	2.65	3.30	3.18
Colorado	NA	NA	NA	NA	2.92	2.57	3.59	2.71
Connecticut	5.89	4.87	5.24	5.23	5.11	5.55	3.87	4.96
Delaware	2.63	2.73	3.02	2.71	3.53	2.43	5.78	5.23
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.92	3.25	3.20	3.81	3.97	3.85	4.45	4.64
Georgia	3.63	3.85	3.18	3.43	3.98	3.65	4.01	4.05
Hawaii	5.21	6.25	5.75	6.40	6.42	6.23	6.22	6.09
Idaho	1.96	1.81	1.94	1.89	2.12	1.79	2.07	2.01
Illinois	2.90	2.81	2.85	2.78	3.28	2.92	3.72	4.00
Indiana	NA	2.32	2.48	2.49	3.03	2.79	3.21	3.64
Iowa	3.33	3.42	3.33	3.80	4.06	4.45	4.85	4.98
Kansas	2.79	2.86	2.73	3.56	3.47	3.60	4.28	3.67
Kentucky	3.99	3.23	3.09	3.22	3.83	4.07	4.28	3.83
Louisiana	2.29	2.53	2.25	2.81	3.04	2.86	3.75	3.44
Maine	3.25	3.25	3.25	3.25	3.84	3.10	2.72	4.11
Maryland	4.37	3.44	3.43	2.96	4.02	3.57	4.22	4.69
Massachusetts	R3.98	R3.64	2.89	3.40	3.85	3.09	4.14	4.52
Michigan	2.78	2.97	2.89	2.94	2.99	3.19	3.51	3.12
Minnesota	2.95	3.00	2.90	3.27	3.67	4.06	4.52	4.26
Mississippi	NA	NA	2.99	NA	3.39	3.31	3.83	3.86
Missouri	3.72	2.97	2.99	2.96	3.75	3.13	3.92	4.66
Montana	2.29	2.50	2.41	2.71	3.16	2.51	3.15	4.47
Nebraska	3.29	2.98	2.70	4.71	4.24	5.31	6.30	5.76
Nevada	3.00	3.29	3.00	3.03	3.39	2.84	3.71	3.46
New Hampshire	3.37	3.93	3.74	3.77	4.10	3.72	4.02	3.95
New Jersey	3.54	3.53	3.38	4.37	4.19	3.77	4.49	4.84
New Mexico	2.19	2.20	2.02	2.24	2.53	2.31	2.85	2.59
New York	3.01	NA	NA	NA	3.51	3.33	4.00	3.68
North Carolina	3.91	3.49	3.47	3.65	3.97	3.72	4.09	3.95
North Dakota	2.86	2.91	2.85	2.93	3.38	3.01	4.01	3.73
Ohio	4.89	4.87	4.27	4.82	5.18	4.35	4.66	5.09
Oklahoma	2.36	2.38	2.61	2.86	3.12	3.33	3.19	3.04
Oregon	NA	NA	2.31	2.53	2.58	2.42	2.73	2.48
Pennsylvania	NA	5.26	3.64	3.68	4.09	3.84	4.20	4.60
Rhode Island	NA	3.38	3.35	3.93	4.49	4.02	4.46	4.53
South Carolina	3.66	3.34	3.05	3.37	3.81	3.72	4.13	4.15
South Dakota	4.37	2.60	3.66	3.22	3.65	3.46	3.68	3.43
Tennessee	6.62	2.42	3.84	NA	3.36	3.66	4.37	3.93
Texas	2.94	2.84	2.87	3.26	3.66	3.97	3.86	3.57
Utah	2.89	3.23	3.68	3.25	2.79	3.46	3.07	2.64
Vermont	2.74	2.92	2.66	2.59	2.33	2.64	2.77	2.34
Virginia	3.64	3.25	3.63	3.97	4.14	3.69	4.11	4.71
Washington	NA	NA	NA	NA	2.62	2.39	2.82	2.27
West Virginia	3.61	2.58	3.15	3.34	3.17	3.11	3.07	3.62
Wisconsin	3.54	3.33	2.99	3.21	3.67	3.32	3.75	3.91
Wyoming	1.28	3.29	3.31	NA	3.11	2.93	3.61	3.25
Total	**R3.22**	**3.22**	**3.08**	**3.28**	**3.61**	**3.42**	**3.91**	**3.86**

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, 1997-1999

(Dollars per Thousand Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999				1998
				April	March	February	January	Total
Alabama	7.49	7.27	7.97	7.83	7.03	8.29	7.13	8.15
Alaska	3.56	3.64	3.69	3.65	3.59	3.53	3.53	3.67
Arizona	8.30	7.47	6.96	8.75	8.57	8.17	8.03	8.56
Arkansas	6.23	6.50	6.30	6.70	6.16	6.94	5.66	R6.91
California	6.43	6.85	6.28	5.98	6.22	6.54	6.82	6.93
Colorado	4.62	4.56	4.31	4.11	4.86	4.75	4.68	NA
Connecticut	10.02	10.20	10.21	10.29	10.08	10.18	9.71	10.59
Delaware	8.12	8.17	7.77	8.39	8.05	8.10	8.05	8.86
District of Columbia	8.20	8.72	9.22	7.96	7.76	8.25	8.61	8.97
Florida	10.77	10.61	10.56	11.46	10.58	11.10	10.29	11.54
Georgia	2.48	6.25	7.09	4.12	2.44	2.38	2.12	6.74
Hawaii	18.34	19.90	22.65	18.04	18.15	18.34	18.79	R19.31
Idaho	5.13	5.15	4.89	5.31	5.10	5.13	5.03	5.34
Illinois	4.64	5.03	5.89	5.27	4.63	4.62	4.46	5.46
Indiana	NA	NA	6.15	5.66	NA	NA	5.36	NA
Iowa	5.13	5.30	5.55	6.00	5.26	5.07	4.79	5.91
Kansas	NA	5.80	6.25	5.64	NA	NA	NA	6.08
Kentucky	5.10	5.55	6.04	5.46	4.82	5.27	5.08	5.94
Louisiana	5.82	5.81	6.77	6.19	5.98	5.86	5.56	NA
Maine	7.32	8.03	8.54	7.85	7.38	7.34	7.00	R8.00
Maryland	NA	7.55	8.00	10.18	NA	NA	7.37	NA
Massachusetts	NA	9.34	9.56	6.24	NA	9.19	9.39	NA
Michigan	4.79	4.87	4.99	5.10	4.78	4.76	4.68	5.12
Minnesota	5.05	5.17	5.54	5.21	5.08	5.06	4.96	5.47
Mississippi	NA	NA	5.95	5.38	5.20	5.41	NA	NA
Missouri	5.69	5.97	6.25	6.06	5.41	5.70	5.71	6.56
Montana	4.87	4.98	4.55	4.95	4.94	4.93	4.75	NA
Nebraska	4.44	5.02	5.42	4.70	4.47	4.38	4.37	5.19
Nevada	6.82	6.73	5.73	7.00	6.94	6.75	6.70	7.11
New Hampshire	7.38	8.03	8.72	5.67	8.23	7.60	7.44	NA
New Jersey	NA	7.40	7.60	9.06	NA	NA	NA	NA
New Mexico	3.36	4.59	5.66	4.97	3.09	4.25	2.63	5.20
New York	NA	8.75	9.29	8.45	NA	NA	NA	NA
North Carolina	7.42	8.02	8.89	7.92	6.20	8.40	7.56	8.71
North Dakota	4.68	4.73	4.34	4.71	4.76	4.67	4.62	5.19
Ohio	5.75	6.03	6.68	5.83	5.63	5.69	5.87	NA
Oklahoma	5.07	5.57	5.89	5.59	5.33	5.48	4.45	6.10
Oregon	6.83	NA	5.97	7.04	6.91	6.79	6.68	NA
Pennsylvania	7.82	NA	7.99	7.64	7.82	7.86	7.88	NA
Rhode Island	8.93	NA	9.21	9.48	8.88	8.90	8.71	NA
South Carolina	8.32	8.13	8.51	8.17	7.81	9.14	8.25	8.50
South Dakota	5.05	5.25	5.16	5.43	5.00	5.09	4.89	5.59
Tennessee	6.13	NA	6.78	6.49	6.37	6.05	5.97	NA
Texas	5.23	5.80	5.93	6.00	5.18	5.20	4.97	6.31
Utah	5.21	5.55	4.86	4.19	5.59	5.33	5.51	5.61
Vermont	6.59	6.28	6.08	6.83	6.68	6.29	6.64	6.54
Virginia	7.90	8.03	8.07	8.72	7.34	7.98	8.01	8.66
Washington	NA	NA	5.48	5.78	NA	NA	NA	NA
West Virginia	NA	6.93	6.80	7.17	NA	6.96	6.89	NA
Wisconsin	6.12	6.06	6.47	6.10	6.05	6.28	6.07	6.08
Wyoming	5.04	NA	3.98	5.02	5.18	5.03	4.98	NA
Total	**6.12**	**6.45**	**6.67**	**6.29**	**6.02**	**6.25**	**6.03**	**6.82**

See footnotes at end of table.

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998							
	December	November	October	September	August	July	June	May
Alabama	8.99	9.94	10.92	10.71	10.78	11.13	10.91	8.99
Alaska	3.51	3.70	3.74	3.01	3.75	4.71	4.02	3.83
Arizona	8.39	9.91	12.07	13.01	13.19	12.24	11.02	9.58
Arkansas	6.83	6.79	8.13	8.81	8.99	9.03	8.72	R7.59
California	6.89	6.80	6.88	7.01	7.21	7.07	7.32	7.01
Colorado	4.86	5.18	5.75	8.36	7.44	NA	NA	5.24
Connecticut	10.96	10.51	11.13	11.73	11.80	11.62	11.11	11.57
Delaware	8.56	9.38	11.62	12.78	12.61	11.67	10.99	9.44
District of Columbia	8.96	9.29	10.65	11.22	8.59	8.87	8.50	9.70
Florida	10.05	12.19	14.12	13.56	13.59	13.79	13.30	13.08
Georgia	2.41	3.43	7.99	15.53	15.94	16.76	11.73	13.50
Hawaii	18.88	19.41	19.27	19.41	18.31	18.60	18.75	R19.02
Idaho	5.16	5.43	5.80	6.55	6.71	6.26	5.86	5.59
Illinois	4.77	5.01	5.97	8.06	8.16	8.69	8.09	7.94
Indiana	NA	5.77	6.67	NA	NA	NA	9.95	8.81
Iowa	4.91	5.69	7.32	10.97	10.78	11.56	8.41	7.80
Kansas	5.60	5.98	7.54	8.07	7.98	7.88	7.49	6.41
Kentucky	5.24	5.67	7.83	9.19	9.75	7.87	8.15	7.15
Louisiana	7.00	7.93	NA	8.91	8.84	8.85	8.36	8.95
Maine	7.59	7.40	7.61	8.88	9.13	9.11	8.33	8.66
Maryland	8.13	7.86	NA	NA	11.52	12.03	10.82	9.82
Massachusetts	NA	NA	9.55	NA	11.36	10.45	NA	NA
Michigan	4.82	4.80	5.38	6.96	7.35	7.12	6.23	5.85
Minnesota	5.21	5.30	6.01	7.04	7.32	7.57	7.15	6.45
Mississippi	6.22	4.33	7.48	7.55	7.59	7.60	7.32	6.44
Missouri	6.19	6.62	8.84	9.86	10.94	9.76	8.84	7.40
Montana	5.05	5.27	5.90	7.04	6.89	6.70	6.44	NA
Nebraska	4.63	4.77	5.74	6.91	7.12	6.87	6.42	5.99
Nevada	6.74	7.14	8.00	9.25	9.27	8.69	7.74	7.30
New Hampshire	8.09	8.27	7.39	9.03	NA	9.15	8.20	7.07
New Jersey	NA	NA	9.33	NA	9.93	9.63	9.32	6.80
New Mexico	3.21	4.22	7.96	10.19	10.57	10.89	31.23	9.69
New York	NA	NA	NA	NA	13.55	7.01	NA	NA
North Carolina	9.48	8.33	11.73	12.56	13.29	12.05	11.81	9.29
North Dakota	5.04	5.08	5.69	7.69	9.87	7.09	7.03	5.96
Ohio	6.08	6.15	7.82	9.30	9.89	NA	7.35	6.56
Oklahoma	5.66	6.31	8.64	9.50	9.33	8.91	8.37	6.84
Oregon	6.72	6.88	7.62	8.78	9.04	8.33	7.48	7.19
Pennsylvania	7.89	8.18	9.23	NA	NA	11.22	10.51	9.02
Rhode Island	9.39	9.79	10.78	12.15	12.14	11.94	10.94	9.67
South Carolina	9.16	8.96	9.57	10.10	10.32	10.18	9.76	8.44
South Dakota	4.99	5.35	6.34	8.38	8.63	8.90	6.54	6.88
Tennessee	6.30	6.62	8.09	8.51	9.03	8.68	8.15	6.95
Texas	5.52	6.58	8.16	8.79	8.97	8.86	7.94	7.31
Utah	5.66	5.77	4.78	6.13	7.01	6.70	5.39	5.72
Vermont	6.38	6.64	7.46	5.12	8.77	8.91	8.08	7.28
Virginia	8.18	8.52	10.97	12.22	12.28	12.22	11.73	10.14
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	7.13	NA	7.64	NA	NA	NA	NA	NA
Wisconsin	5.97	6.06	5.42	6.49	6.66	7.16	6.50	6.29
Wyoming	5.10	NA	5.26	5.20	7.30	NA	5.99	5.79
Total	**6.36**	**6.60**	**7.55**	**8.94**	**9.19**	**8.62**	**8.41**	**R7.60**

See footnotes at end of table.

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998				1997			
	April	March	February	January	Total	December	November	October
Alabama	7.73	7.00	7.10	7.41	8.35	7.28	7.95	11.05
Alaska	3.66	3.71	3.65	3.56	3.77	3.62	3.69	3.75
Arizona	8.14	7.39	7.40	7.23	7.83	7.61	9.20	11.36
Arkansas	6.86	6.41	6.50	6.46	6.67	6.26	6.43	8.70
California	6.80	6.78	6.49	7.28	6.81	7.20	7.48	7.80
Colorado	4.74	4.49	4.57	4.50	4.81	4.73	5.18	5.96
Connecticut	9.78	10.18	10.33	10.36	10.33	10.15	10.30	10.27
Delaware	8.51	8.15	8.08	8.07	8.36	8.04	8.69	10.74
District of Columbia	8.86	8.62	8.44	9.01	9.39	8.97	11.01	11.27
Florida	11.34	10.51	10.47	10.33	11.90	11.78	13.01	13.85
Georgia	7.09	5.78	6.15	6.40	7.41	6.05	5.91	8.08
Hawaii	19.21	19.87	20.46	19.99	21.74	20.43	20.87	21.07
Idaho	5.38	5.18	5.14	5.01	5.12	4.98	5.28	5.66
Illinois	5.79	4.90	4.91	4.88	5.95	5.38	5.65	6.05
Indiana	NA	6.13	6.22	6.12	6.37	5.51	5.85	6.65
Iowa	6.36	4.79	4.97	5.49	6.17	6.02	6.41	7.69
Kansas	5.92	5.76	5.77	5.81	6.42	5.92	6.42	7.68
Kentucky	6.56	5.25	5.47	5.48	6.37	6.39	6.09	7.41
Louisiana	6.46	5.28	5.60	6.10	7.16	6.34	7.88	9.43
Maine	R8.75	7.90	7.90	7.90	8.47	8.36	8.21	7.80
Maryland	8.36	7.53	7.36	7.38	8.36	7.38	8.71	9.91
Massachusetts	9.64	9.37	9.26	9.19	9.43	9.94	9.70	8.51
Michigan	5.11	4.69	4.92	4.85	5.20	4.98	5.13	5.80
Minnesota	5.60	5.18	5.11	5.07	5.76	5.09	6.04	6.67
Mississippi	5.88	NA	5.39	NA	6.35	5.74	6.79	8.40
Missouri	6.14	5.58	5.86	6.30	6.61	6.46	6.70	8.86
Montana	5.15	4.97	5.03	4.87	5.05	5.31	5.39	5.81
Nebraska	5.09	4.74	4.93	5.28	5.69	6.01	6.01	7.31
Nevada	6.90	6.80	6.79	6.53	6.27	6.18	6.72	7.64
New Hampshire	6.50	8.50	8.38	8.30	8.48	8.46	8.87	7.47
New Jersey	7.71	7.39	7.23	7.41	7.93	7.62	7.77	8.53
New Mexico	6.26	4.55	5.23	3.72	5.87	3.68	4.56	8.48
New York	9.26	8.54	8.62	8.75	9.73	9.34	9.93	11.38
North Carolina	7.91	7.77	7.93	8.33	8.98	8.03	8.21	11.17
North Dakota	5.12	4.79	4.68	4.52	4.99	5.67	5.81	6.50
Ohio	6.22	5.97	5.75	6.25	6.75	6.20	6.31	7.40
Oklahoma	5.56	5.43	5.73	5.56	6.23	5.44	6.06	8.77
Oregon	NA	NA	6.44	6.09	6.21	6.01	6.28	6.59
Pennsylvania	NA	8.05	8.03	9.60	8.33	7.75	7.87	8.98
Rhode Island	NA	9.03	8.86	8.83	9.61	8.97	9.74	10.64
South Carolina	7.88	8.02	8.27	8.17	8.37	7.77	7.79	9.28
South Dakota	5.88	5.31	5.07	5.01	5.75	5.94	6.16	7.07
Tennessee	6.42	5.96	6.31	NA	6.91	6.66	6.68	8.26
Texas	6.29	5.14	6.58	5.42	6.32	5.59	6.40	8.00
Utah	4.85	5.51	5.73	5.83	5.13	5.29	5.70	4.65
Vermont	6.45	6.30	6.23	6.19	6.41	6.21	6.43	7.06
Virginia	8.28	7.75	8.05	8.11	8.60	7.90	8.80	10.85
Washington	NA	NA	NA	NA	5.64	5.68	5.75	5.83
West Virginia	7.55	6.85	6.78	6.81	6.81	5.87	6.63	6.02
Wisconsin	6.02	6.28	5.98	5.96	6.43	6.28	7.13	5.98
Wyoming	5.25	5.13	5.14	NA	4.58	6.16	5.26	5.54
Total	**6.78**	**6.27**	**6.40**	**6.45**	**6.94**	**6.54**	**6.86**	**7.69**

R Revised Data.
NA Not Available.

Notes: Data for 1997 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

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999				1998
				April	March	February	January	Total
Alabama	6.41	6.49	6.97	6.26	6.10	6.93	6.33	R6.75
Alaska	2.37	2.42	2.52	2.28	2.34	2.38	2.44	2.41
Arizona	6.14	5.62	5.11	6.11	6.12	6.18	6.15	5.95
Arkansas	4.96	5.14	5.14	5.24	4.85	5.27	4.70	5.15
California	5.71	6.78	6.74	5.57	5.17	6.28	5.82	6.26
Colorado	4.14	4.09	3.80	4.14	4.14	4.12	4.16	NA
Connecticut	6.82	7.37	7.79	6.68	6.93	7.03	6.63	6.85
Delaware	6.69	6.74	6.40	6.82	6.69	6.59	6.68	7.07
District of Columbia	7.10	7.42	8.29	6.70	6.92	7.06	7.53	7.37
Florida	6.30	6.74	6.68	6.19	6.22	6.38	R6.41	6.59
Georgia	2.94	5.81	6.61	3.43	2.17	2.35	3.78	5.93
Hawaii	13.38	14.90	15.04	13.08	R13.19	R13.41	R13.79	R14.15
Idaho	4.57	4.48	4.38	4.83	4.49	4.59	4.46	4.62
Illinois	4.52	4.69	5.44	4.83	4.46	4.48	4.47	4.97
Indiana	NA	5.65	5.44	4.65	NA	4.52	4.39	NA
Iowa	4.24	4.35	4.88	4.67	4.11	4.30	4.12	4.56
Kansas	NA	4.97	5.56	4.94	NA	NA	NA	5.14
Kentucky	4.85	5.48	5.72	5.03	4.39	4.92	5.09	5.41
Louisiana	5.26	5.35	6.33	5.24	5.29	5.22	5.29	5.63
Maine	6.72	7.48	8.03	7.01	6.81	6.79	6.48	NA
Maryland	NA	6.34	6.60	5.75	NA	NA	6.94	6.63
Massachusetts	NA	7.54	8.14	7.69	NA	NA	8.08	NA
Michigan	4.71	4.74	4.89	4.94	4.69	4.68	4.65	4.84
Minnesota	4.23	4.46	4.88	4.01	4.20	4.25	4.33	4.40
Mississippi	NA	4.74	5.32	4.43	4.53	4.23	NA	4.47
Missouri	5.35	5.64	6.00	5.19	5.06	5.43	5.55	5.66
Montana	4.86	4.92	4.62	4.87	4.90	4.91	4.80	NA
Nebraska	4.01	4.93	5.04	3.77	3.98	4.00	4.14	4.53
Nevada	5.92	5.71	4.93	6.10	5.89	5.92	5.85	5.94
New Hampshire	6.74	7.37	8.22	5.40	6.97	7.15	6.89	NA
New Jersey	NA	4.25	6.65	3.09	NA	NA	NA	NA
New Mexico	3.14	4.00	4.12	4.08	3.53	3.40	2.45	3.95
New York	NA	NA	7.28	5.63	NA	NA	NA	NA
North Carolina	6.08	6.66	7.48	5.62	5.87	6.44	6.25	6.62
North Dakota	4.09	4.11	3.96	3.94	4.09	4.04	4.19	4.33
Ohio	5.44	5.70	6.31	5.37	5.26	5.33	5.67	NA
Oklahoma	4.84	5.33	5.56	4.70	5.09	5.23	4.49	5.23
Oregon	5.58	NA	4.55	5.65	5.63	5.56	5.51	NA
Pennsylvania	9.20	NA	7.37	19.98	7.03	7.25	7.30	NA
Rhode Island	7.79	NA	8.15	8.03	7.73	7.75	7.74	NA
South Carolina	6.65	6.74	7.49	6.45	6.40	6.94	6.75	6.45
South Dakota	4.03	4.28	4.29	4.23	3.90	4.16	3.92	4.42
Tennessee	5.73	NA	6.09	5.68	5.68	5.72	5.77	NA
Texas	4.27	4.79	5.04	4.36	3.96	4.28	4.44	R4.58
Utah	4.00	4.31	3.67	3.24	4.25	4.14	4.20	4.35
Vermont	5.30	5.18	5.18	5.50	5.49	5.23	5.12	5.08
Virginia	5.87	6.10	6.49	5.82	5.67	6.04	5.90	6.08
Washington	NA	NA	4.58	4.93	NA	NA	NA	NA
West Virginia	6.11	6.35	6.10	5.44	6.19	6.23	6.30	NA
Wisconsin	4.88	5.06	5.52	4.43	4.78	4.90	5.09	4.89
Wyoming	4.50	NA	3.49	4.44	4.51	4.47	4.55	NA
Total	**5.20**	**5.53**	**5.94**	**5.67**	**5.03**	**5.18**	**R5.13**	**5.47**

See footnotes at end of table.

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998							
	December	November	October	September	August	July	June	May
Alabama	7.18	7.53	7.06	6.92	6.96	7.25	7.24	R6.80
Alaska	2.45	2.47	2.32	3.22	2.15	2.08	2.05	2.24
Arizona	6.25	6.38	6.45	5.78	6.30	6.25	6.19	6.14
Arkansas	5.27	5.16	4.90	5.02	4.99	5.29	R5.16	5.31
California	6.28	5.98	5.64	5.83	5.88	5.50	5.91	5.68
Colorado	4.08	3.83	4.01	4.44	4.16	NA	4.44	4.21
Connecticut	7.54	6.74	5.49	5.44	5.53	4.66	5.88	7.03
Delaware	6.93	6.93	8.05	8.72	8.40	8.14	7.81	7.33
District of Columbia	7.43	7.69	7.49	7.35	7.14	6.98	6.97	6.99
Florida	6.39	6.47	6.38	6.27	6.22	6.55	6.70	6.83
Georgia	2.75	3.34	4.90	9.08	8.96	9.40	7.59	7.99
Hawaii	R13.81	R14.00	R14.04	R16.65	R10.88	R13.40	R13.53	R14.07
Idaho	4.58	4.83	4.91	4.94	4.88	4.90	4.83	4.77
Illinois	4.68	4.84	5.20	6.08	5.99	8.15	5.72	6.81
Indiana	NA	4.85	5.28	NA	6.92	NA	NA	6.35
Iowa	3.95	4.41	5.02	6.38	6.27	7.53	4.17	5.48
Kansas	5.24	5.84	5.45	5.64	4.42	5.45	5.65	5.63
Kentucky	5.06	5.05	5.58	5.69	5.69	6.14	5.57	5.33
Louisiana	6.06	6.19	5.79	5.82	5.68	5.85	5.58	6.10
Maine	6.96	NA	6.55	6.89	6.89	6.81	6.70	7.20
Maryland	7.03	6.07	7.74	7.27	7.40	7.88	7.02	7.35
Massachusetts	NA	7.10	6.06	NA	6.45	6.22	6.55	6.86
Michigan	4.72	4.64	5.05	5.35	5.70	5.88	5.38	5.21
Minnesota	4.38	4.27	4.23	3.93	4.44	4.66	4.46	4.63
Mississippi	4.69	3.52	4.52	3.64	4.11	4.25	4.23	4.67
Missouri	5.60	5.50	6.17	5.71	6.04	5.93	5.65	5.52
Montana	5.05	5.24	5.73	6.23	5.86	6.06	R5.84	NA
Nebraska	4.01	3.97	3.72	3.52	3.73	3.91	3.91	4.25
Nevada	5.88	6.33	6.61	6.92	6.90	6.08	5.91	5.75
New Hampshire	7.38	NA	5.94	6.40	NA	6.59	NA	5.98
New Jersey	NA	NA	NA	NA	2.87	3.96	3.74	3.84
New Mexico	3.05	3.34	4.11	4.49	4.71	4.88	6.66	5.15
New York	NA	NA	NA	NA	4.68	5.67	5.01	NA
North Carolina	7.15	6.89	6.23	6.26	6.28	6.45	6.16	6.18
North Dakota	4.29	4.31	4.39	4.73	7.28	4.72	4.86	4.54
Ohio	5.73	5.74	6.97	7.19	7.81	NA	6.30	5.76
Oklahoma	4.23	6.24	5.34	5.39	5.34	5.39	5.24	4.97
Oregon	6.01	4.43	5.53	5.55	5.89	5.75	5.52	5.51
Pennsylvania	6.75	6.63	7.33	7.92	NA	8.03	8.25	8.23
Rhode Island	8.02	8.11	8.65	9.14	9.35	8.98	8.88	8.37
South Carolina	6.73	6.58	5.73	5.89	5.91	5.94	6.00	5.98
South Dakota	3.97	4.24	4.84	5.65	5.60	6.23	4.33	5.07
Tennessee	5.94	5.97	6.65	5.79	6.24	5.98	5.95	5.83
Texas	4.43	4.40	4.33	4.33	4.19	4.30	4.12	R5.38
Utah	4.54	4.69	4.00	4.43	4.81	4.37	3.93	3.93
Vermont	4.72	4.95	4.81	4.63	5.17	4.91	5.30	5.98
Virginia	6.14	6.19	6.44	6.06	6.21	5.76	6.14	5.44
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	6.18	6.12	6.21	6.22	6.55	6.87	NA	7.34
Wisconsin	4.94	4.97	4.08	4.64	4.37	4.82	4.44	4.16
Wyoming	2.76	NA	4.70	4.69	5.84	NA	R5.06	4.77
Total	**5.22**	**5.26**	**R5.32**	**5.56**	**R5.49**	**5.65**	**R5.51**	**R5.69**

See footnotes at end of table.

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998				1997			
	April	March	February	January	Total	December	November	October
Alabama	R6.52	6.27	6.47	6.65	6.98	6.56	6.77	7.40
Alaska	2.31	2.39	2.45	2.49	2.44	2.55	2.53	2.52
Arizona	5.79	5.50	5.59	5.65	5.31	5.55	5.82	5.82
Arkansas	R5.19	5.04	5.19	5.14	5.23	5.13	5.47	5.77
California	6.65	7.06	6.75	6.69	6.41	6.99	7.04	6.65
Colorado	4.05	4.04	4.07	4.18	4.06	4.43	4.39	4.72
Connecticut	6.86	7.42	7.28	7.73	7.23	7.48	7.59	6.36
Delaware	6.85	6.75	6.72	6.70	6.70	6.60	6.88	7.46
District of Columbia	7.09	7.46	7.34	7.65	7.37	3.15	8.77	8.07
Florida	6.71	6.69	6.72	6.83	6.85	7.22	7.32	7.04
Georgia	5.53	5.51	5.86	6.16	6.43	5.73	5.53	6.22
Hawaii	R14.19	R14.48	R15.61	R15.21	15.77	13.87	59.38	14.59
Idaho	4.76	4.46	4.40	4.41	4.49	4.35	4.68	4.75
Illinois	5.21	4.70	4.25	4.76	5.43	5.21	5.26	5.79
Indiana	5.74	5.44	5.97	5.52	5.44	5.11	4.96	4.97
Iowa	5.19	3.72	4.08	4.71	5.18	5.16	5.46	5.91
Kansas	6.08	3.85	5.39	5.41	5.38	5.14	5.72	5.63
Kentucky	5.67	5.44	5.63	5.32	5.79	5.92	6.03	5.42
Louisiana	5.49	4.94	5.19	5.73	6.22	5.91	7.00	7.14
Maine	R7.89	7.41	7.41	7.41	7.70	7.79	7.62	6.84
Maryland	7.06	6.16	6.08	6.43	6.52	5.61	7.12	7.19
Massachusetts	7.65	7.46	7.73	7.39	7.34	8.03	7.74	5.63
Michigan	4.92	4.58	4.76	4.77	5.00	4.87	5.03	5.49
Minnesota	4.53	4.41	4.42	4.50	4.80	4.34	5.20	5.11
Mississippi	4.90	4.69	4.35	5.11	5.26	5.23	5.75	5.77
Missouri	5.37	5.27	5.63	6.08	5.88	6.23	6.08	6.16
Montana	5.05	4.91	4.97	4.85	4.83	5.39	3.92	5.54
Nebraska	4.42	6.13	4.44	4.66	4.88	5.35	5.41	5.27
Nevada	5.76	5.69	5.76	5.63	5.08	5.32	5.42	5.43
New Hampshire	6.18	7.64	7.57	7.60	7.63	7.77	7.81	6.14
New Jersey	4.17	3.83	4.13	4.85	5.88	4.97	5.34	4.92
New Mexico	4.42	3.91	4.35	3.66	4.01	3.25	3.52	4.14
New York	6.20	NA	NA	NA	6.49	6.80	6.58	5.62
North Carolina	6.09	6.45	6.72	7.05	7.00	6.96	6.70	6.29
North Dakota	4.16	4.17	4.13	4.03	4.35	4.94	5.14	5.15
Ohio	5.79	5.62	5.43	5.96	6.23	5.86	5.97	6.14
Oklahoma	4.57	5.27	5.56	5.53	5.34	5.23	5.17	5.38
Oregon	NA	NA	5.17	4.92	4.63	4.66	4.73	4.65
Pennsylvania	NA	7.33	7.36	7.14	7.35	6.89	6.83	7.25
Rhode Island	NA	7.88	7.78	7.75	8.21	7.98	8.02	8.00
South Carolina	6.40	6.55	6.91	6.92	6.74	7.31	7.22	6.52
South Dakota	4.69	4.37	4.10	4.12	4.71	5.06	5.22	5.50
Tennessee	5.68	5.55	6.37	NA	6.11	6.36	6.27	6.33
Texas	4.75	4.32	5.37	4.66	4.91	4.99	5.27	4.96
Utah	3.76	4.36	4.35	4.54	3.92	4.39	4.65	3.78
Vermont	5.14	5.10	5.23	5.21	5.18	5.15	4.99	4.91
Virginia	5.63	5.82	6.33	6.41	6.45	6.37	6.42	6.55
Washington	NA	NA	NA	NA	4.73	4.78	4.81	4.87
West Virginia	6.60	6.32	6.31	6.28	6.34	6.18	6.24	6.76
Wisconsin	4.75	5.24	4.96	5.12	5.35	5.46	5.98	4.83
Wyoming	4.62	4.55	4.56	NA	3.93	5.52	4.62	5.08
Total	**5.58**	**R5.38**	**5.56**	**5.59**	**5.79**	**5.70**	**5.85**	**5.73**

R Revised Data.
NA Not Available.

Notes: Data for 1997 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 25 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, 1997-1999

(Dollars per Thousand Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999				1998
				April	March	February	January	Total
Alabama	3.21	3.16	3.86	3.24	3.05	3.34	3.24	3.08
Alaska	1.18	1.49	1.55	1.18	1.17	1.18	1.20	NA
Arizona	3.45	3.51	4.13	3.26	3.71	3.42	3.48	3.39
Arkansas	3.41	3.65	3.76	3.35	3.42	3.48	3.40	3.44
California	NA	4.23	4.69	3.34	3.09	NA	4.02	3.59
Colorado	2.24	2.55	3.86	2.28	2.16	2.32	2.20	NA
Connecticut	4.29	4.90	5.30	3.98	4.23	4.39	4.49	4.32
Delaware	4.10	4.15	4.57	4.27	4.00	3.93	4.33	4.13
District of Columbia	0.00	0.00	0.00	—	—	—	—	0.00
Florida	3.79	4.47	4.34	3.82	3.66	3.93	3.81	4.30
Georgia	2.82	5.34	4.69	3.39	2.76	2.83	2.63	4.75
Hawaii	8.02	0.00	0.00	—	—	—	—	0.00
Idaho [a]	3.20	3.09	2.76	3.26	3.14	3.23	3.19	3.09
Illinois	3.57	4.12	4.68	3.17	3.50	3.71	3.81	3.93
Indiana	NA	4.58	4.54	3.93	NA	R3.01	NA	NA
Iowa	3.36	1.23	3.97	3.27	3.33	3.52	3.32	2.15
Kansas	NA	3.68	3.48	3.16	R3.10	R3.41	NA	NA
Kentucky	3.14	4.20	4.29	2.90	3.10	3.34	3.17	R3.79
Louisiana	1.96	2.59	3.01	1.89	1.88	1.95	2.12	NA
Maine	5.63	6.19	6.65	6.11	5.76	6.05	5.20	NA
Maryland	NA	5.91	3.24	6.50	NA	R6.65	6.18	5.31
Massachusetts	NA	6.73	7.02	6.27	NA	6.88	4.62	NA
Michigan	3.76	3.86	3.94	3.69	3.76	3.66	3.92	3.99
Minnesota	2.73	3.10	3.42	2.52	2.67	2.81	2.86	R2.93
Mississippi	NA	NA	3.65	3.14	2.99	3.11	NA	NA
Missouri	NA	4.70	5.14	3.97	4.00	NA	4.74	4.44
Montana	4.31	4.93	4.74	4.79	4.79	4.78	3.40	R5.35
Nebraska	3.19	3.32	4.04	3.05	3.21	3.12	3.35	3.20
Nevada	4.49	5.95	7.03	4.51	4.45	4.50	4.50	4.74
New Hampshire	5.14	5.45	5.97	2.06	6.42	6.73	6.51	NA
New Jersey	NA	3.45	4.47	2.85	NA	NA	NA	NA
New Mexico	NA	3.59	3.21	3.07	3.60	R3.58	NA	3.15
New York	NA	NA	5.82	4.46	NA	NA	NA	NA
North Carolina	3.54	4.30	5.16	3.09	3.79	3.60	3.63	3.95
North Dakota	2.52	3.14	2.96	2.37	2.47	2.53	2.66	2.88
Ohio	5.17	5.40	5.15	5.17	4.90	5.13	5.42	NA
Oklahoma	3.44	3.97	4.59	3.28	3.50	3.50	3.45	3.71
Oregon	2.01	NA	3.14	3.89	0.81	R4.37	3.87	NA
Pennsylvania	4.44	4.60	4.93	4.21	4.42	4.45	4.60	4.27
Rhode Island	4.24	4.16	2.14	3.52	4.32	4.77	5.00	NA
South Carolina	2.96	3.51	3.93	2.79	2.93	3.15	3.00	3.24
South Dakota	3.08	3.32	3.96	3.02	3.03	3.12	3.13	3.27
Tennessee	3.56	NA	4.46	3.44	3.35	3.54	3.85	NA
Texas	2.04	2.51	2.89	2.10	1.91	2.02	2.10	NA
Utah	3.06	3.06	2.38	2.99	3.31	3.16	2.85	3.09
Vermont	2.79	2.98	3.13	2.74	2.72	2.75	3.00	2.80
Virginia	4.09	4.50	4.96	3.13	3.76	3.88	5.31	R4.24
Washington	NA	NA	3.51	2.33	NA	NA	NA	NA
West Virginia	NA	2.88	2.98	2.95	NA	2.82	2.68	NA
Wisconsin	3.84	4.13	4.29	3.87	3.73	3.82	3.92	3.92
Wyoming	NA	3.31	3.51	4.05	3.87	NA	3.74	R3.28
Total	**2.92**	**3.46**	**3.86**	**2.82**	**2.77**	**R3.00**	**3.09**	**R3.05**

See footnotes at end of table.

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998							
	December	November	October	September	August	July	June	May
Alabama	3.35	3.10	3.06	2.85	2.95	3.01	2.98	2.99
Alaska	NA	NA	NA	1.21	NA	1.22	1.40	1.43
Arizona	3.52	3.37	3.11	3.22	3.20	3.36	3.51	3.44
Arkansas	3.76	3.32	3.24	3.04	3.09	3.47	3.28	3.28
California	3.45	3.48	2.77	3.46	3.28	3.48	3.38	2.88
Colorado	2.31	2.41	2.12	1.90	2.27	NA	NA	2.48
Connecticut	4.55	4.19	3.85	3.46	3.63	3.61	3.69	4.13
Delaware	3.71	3.85	3.75	4.39	5.12	4.32	4.35	4.32
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.97	4.18	4.47	4.05	4.02	4.37	4.20	4.46
Georgia	2.61	3.01	3.86	4.51	5.06	3.85	4.90	5.30
Hawaii	—	—	—	—	—	—	—	—
Idaho [a]	3.08	3.16	3.02	2.94	3.32	2.97	3.10	3.09
Illinois	3.78	3.61	3.32	3.71	4.38	3.10	4.49	4.18
Indiana	4.21	NA	NA	NA	NA	NA	4.53	4.51
Iowa	3.28	3.51	3.40	3.31	3.65	4.14	2.25	3.39
Kansas	NA	NA	2.76	2.35	2.71	2.78	3.05	3.53
Kentucky	R3.83	R3.30	3.71	3.66	3.71	3.61	3.48	3.21
Louisiana	1.20	1.26	NA	1.85	1.98	2.30	2.43	2.62
Maine	6.07	NA	4.22	3.92	3.80	4.17	4.10	4.70
Maryland	5.31	4.76	4.21	5.86	4.57	8.24	5.60	4.54
Massachusetts	NA	NA	4.34	NA	4.36	4.83	4.89	4.66
Michigan	3.96	3.60	4.29	4.67	5.21	4.77	4.32	4.01
Minnesota	3.01	2.82	2.67	R2.68	R2.91	2.84	2.58	3.03
Mississippi	3.30	2.84	3.02	R3.03	NA	R0.63	NA	NA
Missouri	4.27	4.46	4.16	4.13	R4.27	R3.73	R4.27	4.25
Montana	4.82	5.31	5.54	11.14	7.57	6.88	R6.44	5.89
Nebraska	3.30	3.28	2.86	2.56	2.72	3.20	3.34	3.34
Nevada	4.59	4.53	4.39	4.35	4.46	5.86	5.81	5.94
New Hampshire	4.95	NA	2.82	3.67	NA	3.58	3.38	3.90
New Jersey	NA	NA	NA	NA	2.88	3.17	3.39	3.43
New Mexico	1.54	2.60	2.95	2.99	3.19	3.13	3.45	3.77
New York	NA	NA	NA	NA	NA	NA	3.92	NA
North Carolina	4.12	3.90	3.63	3.55	3.62	3.60	3.57	3.68
North Dakota	3.14	2.64	2.51	2.11	2.53	2.85	2.60	3.15
Ohio	5.76	4.69	5.78	5.78	7.46	NA	5.05	4.98
Oklahoma	3.49	3.39	3.64	3.40	3.44	3.41	3.43	3.13
Oregon	4.25	3.50	3.96	3.57	3.74	3.80	3.77	3.75
Pennsylvania	4.26	4.10	3.98	4.04	3.88	3.94	4.09	4.05
Rhode Island	3.85	3.68	3.93	3.08	2.98	3.59	3.58	NA
South Carolina	3.25	3.17	3.11	2.93	2.47	3.37	3.21	3.31
South Dakota	3.10	3.12	3.27	3.38	3.17	3.21	3.54	3.44
Tennessee	3.88	3.79	3.30	3.34	3.38	4.37	3.50	3.54
Texas	2.30	2.18	NA	1.87	2.15	2.53	2.24	2.44
Utah	3.29	3.24	3.03	3.08	3.36	3.20	2.78	2.90
Vermont	2.61	2.30	2.84	2.74	2.77	2.78	2.78	2.87
Virginia	5.50	4.62	4.00	3.16	3.33	R4.21	R3.79	R3.45
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	2.86	NA	2.93	NA	NA	3.02	2.88	2.96
Wisconsin	4.01	4.17	3.40	3.13	3.56	3.76	3.44	3.69
Wyoming	R3.29	R3.28	R3.20	R3.23	R3.27	R3.26	R3.23	R3.40
Total	**2.83**	**2.83**	**2.76**	**R2.66**	**R2.75**	**R2.74**	**2.96**	**3.09**

See footnotes at end of table.

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998				1997			
	April	March	February	January	Total	December	November	October
Alabama	3.26	2.75	3.34	3.35	3.65	3.79	3.81	3.85
Alaska	1.42	1.45	1.52	1.56	1.54	1.56	1.55	1.54
Arizona	3.45	3.33	3.76	3.53	3.60	3.40	3.23	3.71
Arkansas	3.39	3.78	3.62	3.77	3.71	4.01	4.31	3.90
California	3.97	3.31	5.34	4.55	4.18	4.51	4.58	4.36
Colorado	2.26	2.62	2.58	2.69	3.66	3.79	4.91	4.07
Connecticut	4.55	4.74	5.13	5.12	4.73	5.10	4.94	4.33
Delaware	4.63	3.79	4.08	4.22	4.40	4.72	4.87	4.63
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.58	4.40	4.29	4.59	4.41	4.70	4.96	4.78
Georgia	5.15	5.18	5.37	5.63	4.56	4.22	4.63	4.52
Hawaii	—	—	—	—	10.79	—	—	—
Idaho [a]	3.10	3.25	3.02	3.06	2.76	2.77	2.74	2.72
Illinois	4.02	4.08	4.12	4.22	3.97	4.17	4.80	3.77
Indiana	4.77	4.56	4.29	4.68	4.33	4.73	3.67	3.59
Iowa	0.73	0.64	2.42	3.43	4.11	4.55	4.53	4.41
Kansas	3.56	3.61	3.65	3.89	3.32	3.61	3.81	3.96
Kentucky	3.85	3.79	4.51	4.59	4.19	4.85	4.91	3.97
Louisiana	2.19	2.89	2.22	2.90	2.87	2.91	3.42	3.27
Maine	R6.13	6.02	6.62	6.02	5.55	7.19	5.88	4.68
Maryland	5.10	5.88	5.59	7.46	3.25	3.76	3.64	2.99
Massachusetts	6.64	6.77	6.70	6.79	5.78	6.72	6.34	4.34
Michigan	3.81	3.61	4.11	3.90	4.02	4.02	4.07	4.33
Minnesota	3.06	3.08	3.00	3.25	3.28	3.24	3.87	3.83
Mississippi	NA	NA	3.22	NA	3.55	3.60	4.12	3.93
Missouri	4.30	4.27	4.69	5.30	4.78	5.48	4.23	4.51
Montana	5.22	5.02	4.85	4.82	4.79	4.85	4.80	4.91
Nebraska	3.35	3.34	3.27	3.30	3.85	4.08	4.44	4.28
Nevada	5.84	6.00	6.06	5.90	7.77	7.98	9.55	11.41
New Hampshire	3.77	5.72	5.84	7.08	4.90	7.36	6.48	4.50
New Jersey	3.42	3.24	3.42	3.71	3.78	3.99	4.24	3.79
New Mexico	4.00	4.09	5.69	2.18	2.99	2.14	2.81	3.57
New York	4.49	15.18	NA	NA	5.05	5.56	5.29	4.69
North Carolina	3.63	4.19	4.41	4.95	4.66	5.03	4.98	4.07
North Dakota	3.10	3.22	3.01	3.22	3.05	3.24	3.64	3.84
Ohio	5.21	5.67	5.06	5.62	4.93	4.84	4.79	4.31
Oklahoma	3.32	4.12	4.18	4.10	4.18	4.39	4.50	4.22
Oregon	NA	NA	3.73	3.67	3.03	3.32	3.10	2.86
Pennsylvania	4.40	4.57	4.55	4.80	4.61	4.62	4.32	4.36
Rhode Island	3.86	4.06	4.25	4.59	4.33	3.77	2.92	2.49
South Carolina	3.42	3.53	3.38	3.67	3.72	4.00	4.31	4.02
South Dakota	3.37	3.38	3.25	3.30	4.02	3.72	4.37	4.65
Tennessee	3.64	3.59	3.98	NA	4.18	4.81	4.72	4.47
Texas	2.49	2.49	2.44	2.66	2.82	2.76	3.54	3.33
Utah	2.95	3.05	3.19	3.06	2.55	3.02	2.90	2.73
Vermont	2.86	2.94	3.01	3.06	3.07	3.11	3.12	2.97
Virginia	3.45	R4.49	4.99	4.81	4.68	5.20	4.73	3.92
Washington	NA	NA	NA	NA	3.16	3.08	3.38	2.86
West Virginia	2.97	2.90	2.87	2.78	2.91	2.87	2.88	2.97
Wisconsin	4.20	4.17	4.48	3.79	4.13	4.53	5.05	4.23
Wyoming	R3.29	R3.31	R3.33	3.29	3.49	3.65	3.66	3.42
Total	**3.22**	**3.40**	**3.51**	**3.67**	**3.59**	**3.79**	**4.07**	**3.69**

R Revised Data.
NA Not Available.
— Not Applicable.

Notes: Data for 1997 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 25 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, 1997-1999

(Dollars per Thousand Cubic Feet)

State	YTD 1999	YTD 1998	YTD 1997	1999			1998	
				March	February	January	Total	December
Alabama	2.19	2.66	2.72	2.25	2.07	2.22	2.55	2.68
Alaska	1.70	1.86	1.63	1.72	1.70	1.68	1.80	1.72
Arizona	2.25	2.82	3.90	2.13	2.29	2.32	2.43	2.38
Arkansas	1.92	2.32	3.14	1.88	1.94	2.04	2.28	2.35
California	2.67	2.87	3.87	2.75	2.55	2.70	2.79	2.96
Colorado	2.39	2.75	3.15	2.18	2.24	3.26	2.91	3.33
Connecticut	2.12	2.73	2.89	2.12	2.02	2.11	2.42	1.90
Delaware	2.85	4.44	3.36	2.46	2.98	3.34	2.89	3.34
District of Columbia	0.00	0.00	0.00	—	—	—	0.00	—
Florida	2.27	2.45	2.55	2.01	2.86	2.08	2.27	1.39
Georgia	1.64	2.14	3.71	1.37	2.15	4.83	3.19	2.11
Hawaii	0.00	0.00	0.00	—	—	—	0.00	—
Idaho	0.00	0.00	0.00	—	—	—	0.00	—
Illinois	2.00	2.29	2.62	1.86	1.81	2.27	2.25	2.12
Indiana	2.87	3.23	3.68	2.71	2.78	2.99	2.88	3.36
Iowa	3.38	3.25	3.71	3.13	3.45	3.62	3.00	3.38
Kansas	1.95	2.55	3.10	1.80	1.96	2.24	2.13	2.21
Kentucky	2.75	3.82	3.89	3.33	2.99	2.51	3.11	2.90
Louisiana	2.07	2.54	3.11	2.01	2.08	2.13	2.38	2.16
Maine	0.00	0.00	0.00	—	—	—	0.00	—
Maryland	3.21	3.36	4.59	2.60	3.46	3.52	2.77	2.64
Massachusetts	2.16	3.25	3.27	2.10	2.13	2.43	2.78	2.26
Michigan	1.40	0.69	0.62	0.88	1.33	2.07	1.23	1.25
Minnesota	2.87	2.72	2.31	2.56	3.49	3.02	2.42	3.43
Mississippi	1.98	2.47	2.99	1.91	1.95	2.05	2.32	1.97
Missouri	2.30	2.62	4.09	2.16	2.29	2.34	2.23	2.31
Montana	2.63	12.18	5.17	7.37	5.20	2.04	3.65	1.48
Nebraska	1.86	3.04	2.82	1.37	2.79	2.28	2.38	2.92
Nevada	2.21	2.28	2.13	2.07	2.40	2.20	2.37	2.01
New Hampshire	0.00	0.00	0.00	—	—	—	0.00	—
New Jersey	2.75	2.89	3.24	2.46	2.76	2.95	2.74	2.44
New Mexico	1.87	2.38	2.88	1.79	1.89	2.03	2.22	2.14
New York	2.54	2.98	3.14	2.37	2.55	2.80	2.56	2.43
North Carolina	3.33	3.92	6.89	3.32	3.33	3.34	2.73	3.93
North Dakota	0.00	0.00	2.93	—	—	—	0.00	—
Ohio	3.23	3.78	4.23	2.99	3.32	3.88	3.51	3.88
Oklahoma	2.34	3.21	3.64	2.28	2.48	2.32	2.47	2.28
Oregon	1.92	1.14	1.75	1.67	1.83	2.01	1.55	1.92
Pennsylvania	2.98	2.70	3.20	3.02	2.98	2.94	3.30	4.88
Rhode Island	0.00	3.33	3.38	—	—	—	3.38	—
South Carolina	2.98	3.68	4.71	3.02	2.86	3.00	3.60	4.05
South Dakota	0.00	0.00	0.00	—	—	—	1.77	—
Tennessee	0.00	0.00	0.00	—	—	—	0.00	—
Texas	2.06	2.44	2.95	1.99	2.09	2.10	2.30	2.24
Utah	2.34	0.00	0.00	2.56	2.19	2.24	2.11	2.45
Vermont	2.49	2.91	3.57	2.44	2.47	2.55	2.90	2.87
Virginia	3.13	3.33	2.78	3.09	3.12	3.18	3.04	4.03
Washington	0.00	2.10	NA	—	—	—	2.79	—
West Virginia	3.02	5.59	5.21	2.96	2.93	3.19	3.53	3.02
Wisconsin	2.65	2.81	3.26	2.51	2.79	2.64	2.68	2.73
Wyoming	5.78	8.62	12.45	6.02	4.83	6.92	8.61	11.18
Total	**2.20**	**2.56**	**3.02**	**2.11**	**2.27**	**2.26**	**2.37**	**2.22**

See footnotes at end of table.

Table 24. Average Price of Natural Gas Delivered to Electric Utility[a] Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998							
	November	October	September	August	July	June	May	April
Alabama	2.47	2.62	2.46	2.50	2.63	2.49	2.62	2.69
Alaska	1.74	1.72	1.73	1.76	1.80	1.87	1.84	1.84
Arizona	2.77	2.11	2.33	2.28	2.41	2.79	3.20	2.82
Arkansas	—	2.25	2.15	2.05	2.49	2.33	2.33	2.56
California	2.86	2.56	2.50	2.83	2.92	2.70	2.94	2.71
Colorado	3.15	2.71	2.82	3.31	2.77	2.83	2.56	2.53
Connecticut	2.45	2.07	2.22	2.34	2.46	2.38	2.56	2.70
Delaware	3.24	2.66	2.41	2.66	3.47	3.27	1.34	1.41
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.30	2.30	2.18	2.18	2.27	2.31	2.31	2.68
Georgia	2.67	3.80	4.00	2.82	3.18	2.91	3.72	1.94
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.31	2.20	2.01	1.95	2.27	2.37	2.37	2.55
Indiana	2.86	3.23	2.74	2.58	2.80	2.95	2.98	3.37
Iowa	3.11	2.93	2.91	2.80	3.01	2.86	3.16	3.14
Kansas	2.25	2.03	1.87	1.99	2.28	2.14	2.20	2.40
Kentucky	3.11	2.85	2.42	2.43	2.86	3.68	3.59	5.25
Louisiana	2.32	2.25	2.12	2.17	2.59	2.40	2.52	2.66
Maine	—	—	—	—	—	—	—	—
Maryland	3.85	3.13	2.53	2.49	2.84	2.93	2.96	3.33
Massachusetts	2.44	2.28	2.13	2.35	2.62	2.24	2.86	3.66
Michigan	1.10	1.46	1.67	1.38	1.34	1.29	1.20	1.35
Minnesota	2.69	2.32	2.00	2.41	2.48	2.42	2.74	2.76
Mississippi	2.28	2.21	2.16	2.16	2.47	2.36	2.41	2.56
Missouri	2.32	2.14	2.13	1.95	2.39	2.41	2.31	2.56
Montana	1.37	1.30	1.02	4.99	2.47	2.59	5.34	1.40
Nebraska	2.81	2.10	1.93	2.49	2.62	2.37	2.40	1.98
Nevada	2.61	2.33	2.42	2.42	2.34	2.73	2.44	2.31
New Hampshire	—	—	—	—	—	—	—	—
New Jersey	3.11	2.74	2.56	2.46	2.92	2.73	2.77	3.05
New Mexico	2.34	2.02	1.90	2.03	2.32	2.20	2.33	2.41
New York	2.80	2.30	2.21	2.29	2.63	2.51	2.64	2.87
North Carolina	3.59	3.00	2.53	2.55	2.92	2.78	2.89	3.37
North Dakota	—	—	—	—	—	—	—	—
Ohio	4.36	3.88	4.09	3.93	2.98	2.79	3.06	4.01
Oklahoma	2.50	2.41	2.16	2.07	2.52	2.41	2.52	2.88
Oregon	1.88	1.63	1.48	1.56	1.46	1.31	1.50	1.36
Pennsylvania	6.91	2.50	3.74	2.63	3.18	2.32	5.37	5.94
Rhode Island	—	—	—	3.40	3.38	3.40	3.43	3.45
South Carolina	3.71	3.21	3.37	3.53	3.58	3.92	3.41	3.44
South Dakota	—	—	1.77	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	2.25	2.16	2.05	2.11	2.46	2.34	2.38	2.52
Utah	2.42	2.20	1.95	2.04	2.15	1.94	—	—
Vermont	2.84	2.86	2.54	2.67	3.09	2.81	3.03	3.08
Virginia	3.72	3.09	2.76	2.60	3.02	2.93	2.99	4.46
Washington	—	—	—	—	—	—	—	5.59
West Virginia	3.25	1.20	2.94	3.85	6.31	2.62	3.58	—
Wisconsin	2.63	2.42	2.31	2.49	2.80	2.64	2.95	3.13
Wyoming	14.27	5.33	6.64	67.70	8.23	7.66	11.70	4.77
Total	**2.37**	**2.22**	**2.15**	**2.21**	**2.50**	**2.40**	**2.47**	**2.59**

See footnotes at end of table.

Table 24. Average Price of Natural Gas Delivered to Electric Utility[a] Consumers, by State, 1997-1999

(Dollars per Thousand Cubic Feet) — Continued

State	1998			1997				
	March	February	January	Total	December	November	October	September
Alabama	2.55	2.44	2.86	2.86	2.90	3.70	3.75	2.88
Alaska	1.85	1.88	1.85	1.74	1.84	1.84	1.85	1.88
Arizona	3.07	2.56	2.84	2.99	2.86	4.00	3.11	3.37
Arkansas	2.36	2.16	2.25	2.69	2.24	3.12	3.12	2.89
California	2.85	2.79	2.94	3.08	2.96	3.64	3.40	3.14
Colorado	2.61	2.65	3.01	3.16	2.93	3.90	2.37	2.42
Connecticut	2.79	2.63	2.74	2.47	2.74	3.38	2.76	2.37
Delaware	4.15	3.21	5.34	3.15	4.28	2.58	5.69	3.40
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.64	2.49	2.25	2.51	2.52	3.29	3.21	3.03
Georgia	1.72	2.88	2.35	2.72	4.97	3.33	3.94	3.07
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.34	2.28	2.25	2.55	2.48	3.31	3.13	2.82
Indiana	3.25	2.64	3.84	3.23	3.67	4.03	5.25	3.67
Iowa	3.35	3.00	3.36	3.41	2.99	4.16	3.81	3.28
Kansas	2.36	1.97	3.35	2.53	3.33	3.02	3.06	2.70
Kentucky	4.04	3.58	3.46	3.45	3.47	4.24	4.00	3.25
Louisiana	2.51	2.47	2.61	2.79	2.86	3.61	3.40	3.03
Maine	—	—	—	—	—	—	—	—
Maryland	3.18	3.32	3.75	2.97	3.61	4.10	3.91	3.42
Massachusetts	3.64	2.95	3.16	3.11	3.57	4.08	4.10	3.21
Michigan	0.75	0.84	0.51	0.79	0.47	1.08	1.58	0.73
Minnesota	2.83	2.62	2.63	2.44	2.99	3.72	3.67	3.56
Mississippi	2.46	2.46	2.48	2.72	2.80	3.51	3.35	3.02
Missouri	2.52	2.82	2.63	2.81	2.77	3.52	3.35	2.94
Montana	12.33	8.49	4.61	NA	4.18	6.84	2.98	64.31
Nebraska	2.72	4.47	2.72	2.86	4.94	4.29	3.21	2.98
Nevada	2.02	2.37	2.41	2.18	2.16	2.80	2.64	2.39
New Hampshire	—	—	—	2.71	—	—	—	2.85
New Jersey	2.88	2.83	2.98	3.06	3.20	4.19	4.23	3.42
New Mexico	2.39	2.30	2.43	2.64	2.55	3.02	3.05	2.82
New York	2.96	2.95	3.00	2.88	3.38	3.83	3.37	2.89
North Carolina	4.03	—	3.02	3.22	3.60	4.95	3.68	3.38
North Dakota	—	—	—	3.43	—	—	—	—
Ohio	4.14	3.16	3.32	3.72	4.13	4.12	4.00	4.35
Oklahoma	2.62	2.72	4.47	2.97	2.89	4.05	3.46	3.20
Oregon	1.23	1.03	1.14	1.49	1.48	1.44	1.45	1.49
Pennsylvania	2.69	2.64	2.79	3.02	3.16	3.69	3.65	2.99
Rhode Island	3.19	3.24	3.48	3.35	3.78	4.05	4.02	3.32
South Carolina	3.58	3.53	4.05	4.07	4.46	4.00	4.10	4.54
South Dakota	—	—	—	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	2.43	2.41	2.49	2.69	2.74	3.33	3.15	2.85
Utah	—	—	—	2.09	—	—	2.00	2.66
Vermont	2.81	2.77	3.02	3.16	3.42	4.21	3.96	3.23
Virginia	3.34	3.78	3.05	2.93	2.54	4.09	4.73	3.77
Washington	3.86	4.11	1.64	NA	5.73	5.16	4.21	8.62
West Virginia	—	—	5.59	3.35	3.31	3.00	3.29	3.41
Wisconsin	2.75	2.91	2.90	3.17	2.92	4.11	3.94	3.09
Wyoming	10.42	8.72	5.39	NA	1.63	3.43	4.88	7.74
Total	**2.53**	**2.51**	**2.64**	**2.74**	**2.77**	**3.41**	**3.24**	**2.96**

[a] Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.
NA Not Available.
— Not Applicable.
Notes: Data for 1997 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, 1997-1999

State	YTD 1999		YTD 1998		YTD 1997		1999 April	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	78.0	16.2	78.0	20.4	80.6	23.6	76.0	15.2
Alaska	56.5	99.9	51.3	100.0	58.7	98.1	53.5	99.9
Arizona	84.6	30.8	86.5	31.7	86.6	19.6	82.5	30.5
Arkansas	91.5	9.8	94.6	10.1	95.8	12.3	89.6	8.7
California	54.8	13.2	58.3	11.5	56.4	10.4	51.1	12.7
Colorado	95.6	5.8	95.6	7.0	94.7	19.8	94.9	0.8
Connecticut	69.6	60.4	73.3	58.9	88.8	71.5	72.9	64.0
Delaware	100.0	20.7	100.0	26.6	100.0	33.9	100.0	17.6
District of Columbia	52.4	—	58.2	—	60.5	—	43.5	—
Florida	91.1	3.5	96.4	4.2	97.6	11.6	92.0	3.4
Georgia	83.3	10.1	88.3	15.9	92.3	28.5	82.0	6.0
Hawaii	100.0	—	100.0	—	100.0	—	100.0	100.0
Idaho	88.4	3.0	88.6	2.4	88.1	2.1	87.0	2.6
Illinois	46.1	10.1	51.7	10.1	57.8	12.6	40.9	10.3
Indiana	NA	NA	86.6	11.4	95.2	19.3	77.8	6.6
Iowa	84.9	7.8	82.4	14.6	90.9	8.9	77.2	6.2
Kansas	NA	NA	73.6	5.4	76.2	9.7	69.1	4.9
Kentucky	88.7	16.9	88.4	14.1	91.2	22.4	83.9	16.3
Louisiana	96.3	7.4	95.5	7.1	96.6	10.8	97.2	7.0
Maine	100.0	87.0	100.0	89.9	100.0	94.8	100.0	75.1
Maryland	NA	NA	44.7	6.1	79.7	12.4	29.8	4.5
Massachusetts	NA	NA	63.0	18.3	70.6	24.2	72.1	27.2
Michigan	64.1	13.1	65.0	9.1	68.7	12.9	58.0	14.2
Minnesota	95.8	37.1	94.0	42.4	99.0	42.4	91.7	38.0
Mississippi	NA	NA	93.4	NA	96.3	39.7	90.5	36.8
Missouri	82.7	24.7	84.2	21.8	82.9	22.6	81.4	17.2
Montana	80.3	2.8	84.3	3.7	92.6	4.1	77.3	2.4
Nebraska	63.3	29.1	77.3	25.0	82.2	28.1	65.0	64.6
Nevada	68.6	11.1	76.7	2.2	76.6	2.2	63.2	25.4
New Hampshire	95.0	23.9	96.1	37.5	94.4	52.9	94.2	27.2
New Jersey	NA	NA	60.3	47.7	64.7	48.2	50.9	39.7
New Mexico	56.5	NA	65.8	7.7	77.3	20.1	40.8	4.9
New York	NA	NA	NA	NA	71.2	9.8	56.3	7.3
North Carolina	74.7	42.6	92.3	28.1	95.2	49.8	90.7	42.0
North Dakota	88.6	14.7	85.9	16.0	92.7	26.2	86.8	14.5
Ohio	49.1	3.3	59.3	3.8	70.2	8.4	38.7	2.0
Oklahoma	79.9	5.0	79.8	5.4	86.8	6.6	75.7	4.3
Oregon	98.9	27.3	NA	NA	98.8	20.6	98.7	15.1
Pennsylvania	60.6	12.3	NA	14.8	68.8	15.9	56.1	11.1
Rhode Island	59.7	10.5	NA	14.5	87.9	18.7	56.2	38.8
South Carolina	89.2	80.7	98.3	85.5	98.4	83.9	85.3	72.8
South Dakota	84.8	48.0	87.2	45.2	86.2	28.2	83.2	41.8
Tennessee	85.8	23.3	NA	NA	94.2	40.5	81.4	21.8
Texas	76.3	15.5	65.8	14.4	67.0	19.5	77.2	20.5
Utah	84.6	9.8	85.0	8.2	85.4	8.9	83.0	8.0
Vermont	100.0	80.5	100.0	100.0	100.0	100.0	100.0	76.3
Virginia	67.9	13.2	74.2	15.3	82.6	12.4	55.7	7.4
Washington	NA	NA	NA	NA	91.4	27.7	81.6	26.2
West Virginia	52.5	NA	53.8	6.1	65.2	12.7	51.4	11.5
Wisconsin	77.7	23.0	79.9	23.4	88.0	32.4	70.9	21.3
Wyoming	93.0	3.1	NA	1.6	86.0	2.4	88.6	2.4
Total	**68.8**	**15.9**	**70.8**	**15.6**	**76.3**	**19.7**	**64.4**	**15.9**

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999 — Continued

State	1999						1998	
	March		February		January		Total	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	76.3	15.5	77.4	16.1	81.0	18.4	R74.5	18.4
Alaska	57.5	99.9	53.8	99.9	59.8	99.9	R49.5	NA
Arizona	84.6	26.3	84.6	34.0	86.3	32.3	84.7	33.4
Arkansas	90.1	9.6	91.4	10.6	93.3	11.7	R90.7	9.0
California	59.5	13.4	52.6	14.4	55.7	11.8	43.1	10.8
Colorado	96.7	0.4	93.2	0.3	97.1	0.1	NA	NA
Connecticut	67.4	58.6	69.7	67.0	69.6	60.4	68.8	56.6
Delaware	100.0	22.7	100.0	24.0	100.0	18.1	100.0	21.8
District of Columbia	53.8	—	52.4	—	58.2	—	51.4	—
Florida	90.3	4.2	90.9	3.4	R91.5	3.6	96.1	4.0
Georgia	83.0	13.5	81.6	9.7	85.4	10.1	81.9	12.5
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	87.8	2.8	88.8	3.1	89.4	3.6	86.1	2.6
Illinois	47.7	9.1	46.1	10.0	46.9	10.9	46.5	8.5
Indiana	NA	NA	79.3	R9.2	79.9	NA	NA	NA
Iowa	87.3	7.5	84.7	8.0	86.7	9.2	82.1	10.0
Kansas	NA	R5.0	NA	R5.4	NA	NA	67.6	NA
Kentucky	88.8	16.6	89.2	18.0	90.3	16.9	86.6	14.5
Louisiana	96.2	7.5	95.9	7.8	96.2	7.5	95.5	NA
Maine	100.0	80.7	100.0	97.3	100.0	93.8	NA	NA
Maryland	NA	NA	NA	R6.5	39.3	7.5	37.6	6.3
Massachusetts	NA	NA	NA	32.3	78.5	28.3	NA	NA
Michigan	63.3	16.2	64.5	17.3	67.3	16.2	58.2	6.5
Minnesota	96.5	39.3	96.5	33.8	96.6	37.9	95.4	R38.5
Mississippi	88.4	35.1	96.9	38.2	NA	NA	94.1	NA
Missouri	83.3	24.6	79.1	33.9	85.5	26.3	77.9	R17.7
Montana	78.1	2.4	80.1	2.7	83.5	3.5	NA	R2.3
Nebraska	67.6	23.8	63.5	28.7	59.8	23.5	71.9	R17.1
Nevada	67.7	28.0	69.2	30.9	72.6	31.4	71.1	5.5
New Hampshire	94.5	19.6	95.3	24.1	95.5	24.2	NA	NA
New Jersey	NA	NA	NA	NA	NA	NA	NA	NA
New Mexico	58.1	4.2	52.8	3.6	66.7	NA	62.5	12.6
New York	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina	55.1	44.4	73.8	43.2	97.0	41.1	88.8	25.4
North Dakota	89.7	13.7	83.6	13.6	92.4	18.4	84.2	14.2
Ohio	48.5	3.6	47.1	3.6	57.0	4.1	NA	NA
Oklahoma	79.2	5.0	78.9	5.1	83.2	5.7	R73.5	3.5
Oregon	98.7	47.4	99.0	R15.8	99.1	16.9	NA	NA
Pennsylvania	61.4	12.5	56.4	11.1	66.5	14.6	NA	13.4
Rhode Island	60.4	50.1	61.5	30.8	59.4	24.4	NA	NA
South Carolina	78.0	83.3	97.8	83.0	97.6	84.8	97.6	86.8
South Dakota	84.3	47.4	84.1	50.0	86.6	51.8	84.1	34.0
Tennessee	83.9	22.5	84.8	23.3	89.7	25.4	NA	NA
Texas	78.2	16.3	81.3	13.0	71.0	13.8	R60.2	14.1
Utah	82.8	8.3	85.7	10.8	85.8	12.2	82.5	8.9
Vermont	100.0	82.2	100.0	81.5	100.0	81.4	100.0	100.0
Virginia	65.8	15.2	68.2	13.6	76.4	20.7	70.8	R12.2
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	54.2	NA	54.8	10.1	49.9	5.5	NA	NA
Wisconsin	76.6	21.9	78.8	22.5	80.6	25.4	71.1	19.4
Wyoming	88.1	2.9	97.3	4.2	96.5	4.3	NA	R1.7
Total	**68.8**	**16.6**	**68.3**	**15.4**	**71.5**	**15.7**	**R64.7**	**R14.9**

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999 — Continued

State	1998							
	December		November		October		September	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	68.2	16.7	66.0	19.1	63.6	17.6	69.1	17.0
Alaska	R48.8	NA	R51.0	NA	R48.6	100.0	R47.2	100.0
Arizona	83.7	33.5	82.6	35.2	79.5	36.6	83.4	33.3
Arkansas	R88.9	8.8	R86.0	10.0	R81.4	10.1	R82.3	9.4
California	43.6	12.0	33.6	10.8	32.4	11.6	28.4	9.3
Colorado	93.0	—	94.9	0.1	85.2	0.2	85.8	—
Connecticut	62.8	63.5	76.2	58.2	61.4	54.1	55.3	59.6
Delaware	100.0	24.4	100.0	22.7	100.0	17.8	100.0	17.5
District of Columbia	53.1	—	49.8	—	37.5	—	36.5	—
Florida	95.0	3.7	94.6	3.3	95.1	3.2	96.5	3.9
Georgia	77.6	10.7	75.3	9.5	72.2	9.4	71.1	14.4
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	85.8	3.6	83.7	2.2	74.9	2.6	80.3	2.5
Illinois	44.0	11.4	44.1	9.1	40.5	8.2	36.4	7.0
Indiana	NA	8.7	75.5	NA	70.1	NA	NA	NA
Iowa	88.3	10.4	82.9	10.1	76.2	7.2	76.8	6.4
Kansas	58.9	NA	59.9	NA	58.5	5.4	55.4	10.9
Kentucky	88.4	R19.2	87.0	R16.9	82.3	13.0	81.6	12.0
Louisiana	94.1	23.9	95.5	15.5	95.5	NA	95.4	8.8
Maine	100.0	84.2	NA	NA	100.0	86.8	100.0	87.1
Maryland	36.7	9.8	54.1	8.7	25.6	8.3	23.1	3.5
Massachusetts	NA	NA	59.7	NA	47.6	26.5	NA	NA
Michigan	63.6	9.6	56.3	8.7	45.9	5.1	41.1	5.0
Minnesota	96.5	38.3	95.6	37.2	97.5	35.5	98.3	R35.1
Mississippi	95.8	34.8	94.7	34.8	94.3	33.8	93.8	R32.7
Missouri	78.6	21.2	73.7	17.7	65.7	12.3	69.2	12.7
Montana	79.9	2.4	78.1	2.3	73.9	1.6	68.2	0.9
Nebraska	50.7	26.9	66.0	R18.9	80.1	15.9	75.1	R13.9
Nevada	70.9	35.4	64.6	29.5	63.7	27.4	56.6	20.7
New Hampshire	95.3	24.4	NA	NA	93.1	21.5	91.9	21.5
New Jersey	NA	NA	NA	NA	NA	NA	NA	NA
New Mexico	75.9	4.1	66.6	11.0	52.4	7.9	45.9	12.9
New York	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina	88.4	25.9	85.2	27.1	80.3	21.1	82.3	18.0
North Dakota	87.5	18.9	86.5	19.3	81.1	21.5	68.6	13.4
Ohio	49.3	3.1	49.7	2.5	55.4	1.5	41.7	1.2
Oklahoma	72.5	5.0	65.2	3.6	57.4	1.8	57.9	1.8
Oregon	99.1	14.8	99.0	15.6	98.4	12.2	98.7	12.0
Pennsylvania	64.1	13.4	61.0	13.5	54.4	11.4	57.4	12.1
Rhode Island	53.7	38.3	53.4	41.9	49.2	34.6	49.3	33.7
South Carolina	96.7	86.7	96.4	86.6	96.4	87.5	96.7	88.3
South Dakota	84.6	46.2	84.4	45.0	95.7	33.9	73.5	20.8
Tennessee	85.2	26.0	81.5	25.0	68.2	14.9	66.7	19.9
Texas	61.7	12.8	64.0	13.5	47.7	15.1	57.7	15.8
Utah	85.2	10.0	82.2	10.9	80.2	10.2	77.6	9.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	74.2	14.8	69.6	15.7	61.6	8.7	57.6	8.5
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	50.9	7.1	38.6	NA	29.7	8.1	28.9	NA
Wisconsin	76.7	20.9	69.9	20.5	67.7	16.5	40.0	15.5
Wyoming	97.7	R2.0	NA	R1.9	82.5	R2.1	83.8	R2.2
Total	**R65.7**	**16.8**	**R62.3**	**15.5**	**R55.6**	**14.2**	**R53.1**	**R14.2**

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999 — Continued

State	1998							
	August		July		June		May	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	72.0	15.6	71.8	17.6	74.7	17.9	R75.7	17.5
Alaska	R48.6	NA	R47.1	96.5	R45.3	100.0	R47.7	100.0
Arizona	82.7	32.6	84.1	32.8	86.2	33.8	83.3	35.8
Arkansas	R84.8	7.8	R86.0	7.0	R86.7	8.1	88.7	9.0
California	24.6	8.2	31.4	9.5	52.9	11.2	48.3	11.7
Colorado	91.3	1.1	NA	NA	91.8	NA	95.0	1.0
Connecticut	58.1	51.5	62.4	57.1	61.2	52.9	76.3	55.7
Delaware	100.0	11.3	100.0	17.8	100.0	19.3	100.0	19.5
District of Columbia	35.4	—	40.4	—	41.9	—	47.7	—
Florida	96.3	6.1	96.0	4.2	96.6	4.3	96.7	3.5
Georgia	68.9	7.0	68.9	5.1	79.0	15.1	82.0	15.7
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	83.1	3.5	83.9	2.7	85.3	1.8	85.4	2.2
Illinois	37.9	6.0	27.0	4.9	45.8	5.2	34.8	6.8
Indiana	60.2	NA	NA	NA	NA	4.2	76.7	6.2
Iowa	79.7	5.2	69.6	5.3	70.3	4.9	87.3	5.4
Kansas	59.9	11.2	58.8	13.5	54.2	10.8	67.5	7.7
Kentucky	78.9	11.6	76.4	15.2	82.6	13.8	84.2	14.7
Louisiana	95.5	7.5	95.3	6.9	96.2	7.0	96.5	7.3
Maine	100.0	85.7	100.0	84.1	100.0	87.9	100.0	84.1
Maryland	22.7	7.2	22.2	2.7	25.2	3.8	27.8	6.7
Massachusetts	51.3	18.1	48.4	16.8	46.3	NA	52.8	28.8
Michigan	35.9	3.8	38.1	4.4	40.8	4.8	42.2	5.9
Minnesota	98.1	R33.5	97.2	34.8	98.2	41.1	98.5	35.1
Mississippi	96.2	NA	94.3	R73.2	94.9	NA	93.6	NA
Missouri	43.6	R12.2	65.6	R16.4	69.4	R12.6	75.7	14.0
Montana	73.4	1.2	69.1	0.7	R70.5	R0.7	NA	1.2
Nebraska	81.5	10.4	65.6	5.7	66.3	13.5	74.0	14.8
Nevada	56.4	19.1	66.3	4.0	70.9	4.6	71.9	4.8
New Hampshire	NA	NA	89.1	34.9	NA	32.7	94.3	38.9
New Jersey	50.0	33.4	47.4	25.6	51.5	27.7	46.0	26.4
New Mexico	45.9	15.1	46.7	17.9	39.7	13.9	48.8	10.0
New York	45.7	NA	49.6	NA	47.4	6.9	NA	NA
North Carolina	83.8	21.3	83.3	26.4	82.5	24.3	86.7	26.9
North Dakota	67.7	8.3	80.8	11.0	82.1	10.4	79.2	6.1
Ohio	35.3	0.8	NA	NA	44.7	1.3	41.4	1.5
Oklahoma	56.4	1.8	R63.5	2.1	63.6	2.2	70.4	2.9
Oregon	98.7	12.2	98.9	12.8	98.9	14.9	98.8	15.0
Pennsylvania	NA	11.6	51.4	12.3	54.9	12.7	59.4	13.2
Rhode Island	100.0	34.2	48.5	31.2	53.3	33.4	58.6	NA
South Carolina	96.8	88.1	97.4	87.5	97.4	88.2	98.2	87.7
South Dakota	74.8	17.1	75.4	22.5	72.8	24.9	65.9	15.8
Tennessee	63.0	21.3	63.7	20.3	66.6	23.3	77.4	23.9
Texas	54.4	14.7	48.8	12.1	63.8	15.2	R55.8	14.1
Utah	71.6	8.7	70.7	7.5	75.6	9.1	73.7	8.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	50.8	13.2	69.4	R8.0	66.8	R8.7	70.0	R11.5
Washington	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia	25.6	NA	15.5	8.3	NA	8.2	29.0	8.5
Wisconsin	48.0	12.8	45.1	12.6	52.4	15.5	53.8	15.1
Wyoming	91.8	R2.4	NA	R2.2	R85.6	R2.2	89.8	R1.4
Total	**R49.9**	**13.5**	**R52.2**	**R13.8**	**R60.1**	**14.0**	**R60.5**	**R13.9**

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999 — Continued

State	1998							
	April		March		February		January	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	R77.4	18.6	77.8	21.4	80.1	20.7	76.7	20.7
Alaska	R49.5	100.0	R49.9	100.0	R52.6	100.0	R52.6	100.0
Arizona	84.9	32.7	86.7	34.0	87.2	27.7	86.9	32.3
Arkansas	R92.9	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	95.8	0.8	96.0	1.2	95.2	1.2	95.4	2.5
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	87.9	11.4	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	73.6	5.3	71.9	5.1
Kentucky	85.7	14.7	90.0	13.1	86.5	17.2	90.0	12.3
Louisiana	98.1	7.2	96.0	9.8	93.8	6.0	95.2	5.4
Maine	100.0	R83.8	100.0	85.5	100.0	91.4	100.0	97.9
Maryland	32.2	2.3	45.7	8.3	49.5	10.6	47.1	3.4
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	93.3	NA	89.6	NA	94.8	38.5	95.3	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	95.5	47.0	96.1	36.1	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	57.3	6.5	66.7	1.5	63.8	1.8	71.1	8.2
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	12.3	87.0	17.0	84.9	17.1	89.1	17.6
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	R17.8	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	6.1	55.5	6.1	56.0	6.4
Wisconsin	72.9	19.3	77.6	23.4	80.3	23.8	85.4	26.0
Wyoming	92.1	R2.2	87.4	R1.8	80.3	R1.4	NA	1.5
Total	**R66.7**	**15.0**	**R71.8**	**16.7**	**R71.1**	**15.4**	**R72.1**	**15.1**

See footnotes at end of table.

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1997-1999 — Continued

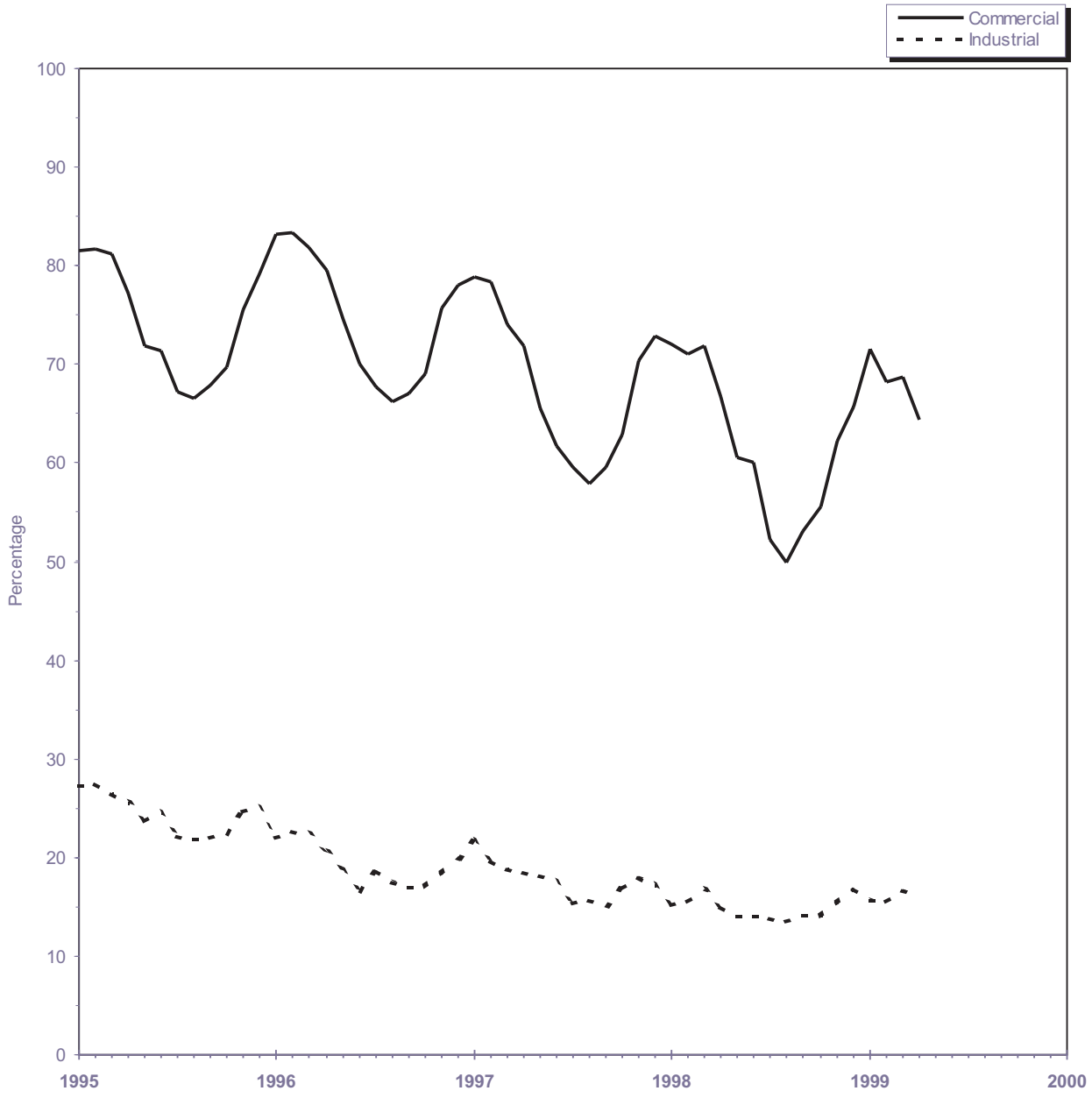
State	1997							
	Total		December		November		October	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	64.7	24.6	80.9	27.9	69.1	26.4	51.0	24.5
Alaska	54.5	97.8	54.2	100.0	51.9	100.0	52.2	100.0
Arizona	84.6	25.1	85.2	33.0	83.2	31.2	81.1	30.2
Arkansas	94.2	10.5	95.9	10.4	90.4	11.2	92.6	9.7
California	50.7	8.9	52.9	9.3	49.4	7.4	41.9	6.1
Colorado	92.8	23.6	93.0	23.7	89.8	25.1	86.9	28.3
Connecticut	81.9	66.4	77.0	61.7	71.1	65.9	68.6	65.9
Delaware	100.0	31.0	100.0	28.1	100.0	28.0	100.0	29.9
District of Columbia	54.9	100.0	55.9	100.0	60.4	100.0	44.5	100.0
Florida	97.5	10.0	96.0	8.4	96.4	8.1	97.5	8.8
Georgia	89.1	26.7	91.6	32.7	88.6	27.6	85.6	30.8
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	86.1	2.0	86.6	2.0	83.2	1.8	76.4	1.5
Illinois	54.3	11.5	52.1	11.9	52.5	9.4	50.4	9.1
Indiana	89.8	16.0	94.1	15.4	96.0	22.6	93.9	16.1
Iowa	88.2	8.6	89.3	9.3	85.0	13.4	80.1	11.5
Kansas	70.7	9.5	73.3	7.5	66.0	9.9	73.6	9.9
Kentucky	90.0	19.2	91.3	17.6	89.9	18.7	89.9	19.5
Louisiana	95.9	10.1	96.5	7.9	95.1	9.3	94.7	9.9
Maine	100.0	91.4	100.0	88.7	100.0	91.4	100.0	88.4
Maryland	67.1	7.4	52.7	1.1	64.7	3.3	51.8	7.0
Massachusetts	62.6	20.2	68.5	19.2	62.9	21.0	48.7	16.8
Michigan	63.7	9.0	65.6	11.8	64.8	9.5	54.2	4.0
Minnesota	98.8	40.4	98.5	40.9	99.1	42.9	98.6	38.7
Mississippi	94.8	39.6	95.0	41.1	94.0	38.0	91.2	40.2
Missouri	79.9	21.8	82.6	23.3	78.3	23.8	68.6	19.7
Montana	91.4	3.1	92.8	3.7	90.5	2.8	88.1	2.3
Nebraska	74.2	27.0	77.2	25.6	72.3	41.2	50.0	22.2
Nevada	71.4	1.8	72.7	2.1	67.9	1.6	65.9	1.2
New Hampshire	92.4	48.8	93.9	32.4	89.1	34.2	85.7	44.2
New Jersey	56.2	47.0	52.0	49.0	48.2	48.3	47.0	42.8
New Mexico	74.6	5.7	81.5	7.8	78.0	6.8	67.0	4.6
New York	64.7	8.5	67.8	10.3	65.7	10.0	59.3	7.6
North Carolina	94.4	45.5	95.7	35.7	99.4	81.7	98.2	73.8
North Dakota	88.9	18.5	84.4	15.3	90.5	17.7	83.2	11.9
Ohio	65.6	5.7	67.1	7.3	67.3	6.1	55.1	2.7
Oklahoma	81.8	4.7	81.8	5.4	71.4	4.3	76.9	3.1
Oregon	98.5	16.3	98.4	16.0	98.4	14.5	97.5	14.1
Pennsylvania	63.6	14.2	63.9	15.3	63.8	14.8	50.1	12.6
Rhode Island	80.5	17.5	64.0	11.4	80.7	13.5	71.1	21.1
South Carolina	98.8	86.9	98.0	84.7	100.0	89.1	99.9	89.8
South Dakota	83.3	24.1	86.0	34.2	84.0	37.4	68.3	17.8
Tennessee	92.2	38.3	92.9	35.3	95.0	39.8	89.9	37.3
Texas	61.4	17.3	68.3	14.6	63.7	14.1	55.0	14.7
Utah	83.3	8.9	86.1	8.2	83.1	9.5	80.2	8.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	77.9	13.0	71.3	19.4	90.2	28.8	71.2	18.6
Washington	84.1	23.5	93.4	19.3	54.5	24.0	90.6	25.0
West Virginia	54.6	12.2	58.9	11.7	53.4	12.7	38.7	12.8
Wisconsin	82.1	27.1	83.1	26.6	85.9	27.6	69.3	24.3
Wyoming	84.2	2.5	96.2	2.7	88.2	1.8	87.9	2.7
Total	**70.8**	**17.7**	**72.8**	**17.2**	**70.4**	**18.0**	**62.9**	**16.8**

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, 1995-1999



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

Appendix A

Explanatory Notes

The Energy Information Administration (EIA) publishes monthly data for the supply and disposition of natural gas in the United States in the *Natural Gas Monthly* (NGM). The information in this Appendix is provided to assist users in evaluating the monthly data. There is a brief description of what data are estimated and what data are taken from submitted reports, followed by ten technical notes that provide important information for individual data series.

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

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

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

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

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

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

Note 1. Nonhydrocarbon Gases Removed

Annual Data

Data on nonhydrocarbon gases removed from marketed productioncarbon dioxide, helium, hydrogen sulfide, and nitrogenare reported by State agencies on the voluntary Form EIA-895. For 1995, of the 33 producing States, 22 reported data on nonhydrocarbon gases removed. The 22 States accounted for 60 percent of total 1995 gross withdrawals. Of the 22 States reporting nonhydrocarbon gases removed, 11 reported zero values: Alaska, Arizona, Arkansas, Colorado, Illinois, Maryland, Missouri, Nevada, New York, South Dakota, and Virginia. The ten States reporting volumes greater than zero are Alabama, California, Florida, Kentucky, Mississippi, Nebraska, New Mexico, North Dakota, Texas, and Wyoming. In addition, Kansas, Louisiana, Montana, and Oklahoma, which together accounted for 40 percent of gross withdrawals, did not report nonhydrocarbon gases removed separately. However, their gross withdrawal data excluded all or most of the nonhydrocarbon gases removed on leases. No estimates are made for States not reporting nonhydrocarbon gases removed.

Preliminary Monthly Data

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

Final Monthly Data

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

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

Note 2. Supplemental Gaseous Fuels

Annual Data

Annual data are published from Form EIA-176.

Preliminary Monthly Data

All monthly data are considered preliminary until after the publication of the *Natural Gas Annual* for the year in which the report month falls. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a monthly supplemental gaseous fuels figure.

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly data are estimated based on the revised annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the revised monthly sum of these three elements to compute final monthly data.

Note 3. Production

Annual Data

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

Estimated Monthly Data

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

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

Preliminary Monthly Data

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

Final Monthly Data

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

Note 4. Imports and Exports

Annual Data and Final Monthly Data

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

Preliminary Monthly Data - Imports

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

Preliminary Monthly Data - Exports

Preliminary monthly export data are based on historical data from the Office of Fossil Energy, U.S. De-

partment 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

Preliminary values for the monthly U.S. Natural gas wellhead price are estimated from the prevailing cash market prices at 5 major trading hubs: Henry Hub, LA; Carthage, TX; Katy, TX; Waha, TX; and Blanco, NM. These prices appear initially in the trade publication, *Natural Gas Week* , and they reflect the spot delivered-to-pipeline, volume-weighted average prices for natural gas bought and sold at the specified trading hubs. Prices include processing, gathering, and transportation fees to the hubs. The estimated wellhead prices are derived with a statistical procedure based on analysis of monthly time series data for the period 1995 through 1997. The preliminary estimates are replaced when annual survey data become available. This procedure was adopted beginning with publication of the February 1999 issue of the *Natural Gas Monthly* and it affects price estimates from January 1998 to the present.

Final Monthly Data

The Form EIA-895 requests State agencies to report monthly values of marketed production. Preliminary monthly gas price data are replaced by these final monthly data.

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

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

The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at these weather stations is used to calculate Statewide degree-day averages weighted by gas home customers. The State figures are then aggregated into Census Divisions and into the national average.

Appendix B

Data Sources

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

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

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

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

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

Survey Design

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

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

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

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

form was approved for use beginning with report year 1990.

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

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

Survey Universe and Response Statistics

The Form EIA-176 is mailed to all identified interstate and intrastate natural gas pipeline companies, investor and municipally owned natural gas distributors, underground natural gas storage operators, synthetic natural gas plant operators, and field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities) and / or that transport gas to, across, or from a State border through field or gathering facilities.

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

Following the original mailing, second request mailing, and nonrespondents follow-up, 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 annual-ly 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 Xi. 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.

A uniform random number R was selected between zero and $\left(I = \frac{X2}{m}\right)$. 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:

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

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:

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

(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, April 1999

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	396	326	4,144	4,176	0.57	0.26	0.75
Alaska	0	0	0	0	—	—	—
Arizona	126	68	0	143	0.15	0.15	—
Arkansas	13	6	814	814	0.01	—	0.04
California	276	22	3,395	3,407	0.07	0.09	0.77
Colorado	NA	NA	929	NA	NA	NA	0.78
Connecticut	0	0	0	0	—	—	—
Delaware	0	0	0	0	—	—	—
District of Columbia	0	0	0	0	—	—	—
Florida	58	1,188	1,774	2,136	0.55	0.39	0.24
Georgia	512	350	4,823	4,862	0.47	0.98	12.07
Hawaii	0	0	0	0	—	—	—
Idaho	0	0	0	0	—	—	—
Illinois	480	675	3,801	3,890	0.07	0.74	1.99
Indiana	NA	NA	NA	NA	NA	NA	NA
Iowa	36	48	59	84	0.03	0.01	0.06
Kansas	6,447	4,943	3,878	9,002	1.84	0.52	0.91
Kentucky	488	334	349	686	0.11	0.19	2.41
Louisiana	5	59	5,384	5,384	0.05	0.05	0.04
Maine	0	0	0	0	—	—	—
Maryland	NA	NA	NA	NA	NA	NA	NA
Massachusetts	NA	NA	NA	NA	NA	NA	NA
Michigan	527	264	3,398	3,449	0.06	—	0.21
Minnesota	621	345	624	945	0.10	0.13	0.18
Mississippi	NA	NA	NA	NA	NA	NA	NA
Missouri	424	156	331	560	0.15	0.18	2.96
Montana	3	2	0	4	0.02	0.03	—
Nebraska	31	26	208	212	0.09	0.07	0.11
Nevada	0	0	0	0	—	—	—
New Hampshire	0	0	0	0	—	—	—
New Jersey	NA	NA	NA	NA	NA	NA	NA
New Mexico	485	26	NA	NA	1.17	2.87	NA
New York	NA	NA	NA	NA	NA	NA	NA
North Carolina	18	250	245	350	0.05	0.10	0.13
North Dakota	0	0	0	0	—	—	—
Ohio	1,986	72	1,373	2,416	0.53	0.20	0.11
Oklahoma	706	442	784	1,144	1.24	1.38	0.19
Oregon	0	0	0	0	—	—	—
Pennsylvania	374	68	1,867	1,906	0.01	0.37	0.17
Rhode Island	0	0	0	0	—	—	—
South Carolina	242	46	1,051	1,079	0.14	0.08	0.08
South Dakota	0	0	0	0	—	—	—
Tennessee	NA	NA	NA	NA	NA	NA	NA
Texas	35	1,222	0	1,222	—	0.31	—
Utah	0	0	0	0	—	—	—
Vermont	0	0	0	0	—	—	—
Virginia	444	185	307	571	0.11	0.38	0.93
Washington	NA	NA	NA	NA	NA	NA	NA
West Virginia	NA	NA	NA	NA	NA	NA	NA
Wisconsin	345	761	302	888	0.64	0.28	0.36
Wyoming	28	153	59	167	0.31	0.33	0.93
Total	**7,384**	**5,748**	**14,647**	**17,381**	**0.08**	**0.09**	**0.17**

NA Not Available.
— Not Applicable.

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

Appendix D

Natural Gas Reports and Feature Articles

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

Natural Gas Annual 1995, DOE/EIA-0131(95), November 1996.

Natural Gas Annual 1993 Supplement: Company Profiles, DOE/EIA-0131(93/S), February 1995.

Natural Gas 1996 Issues and Trends, DOE 0560(96), December 1996.

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

Monthly Energy Review, DOE/EIA-0035. Published monthly. Provides national aggregate data for natural gas, natural gas liquids, and other energy sources.

Short-Term Energy Outlook, DOE/EIA-0202. Published quarterly. Provides forecasts for next six quarters for natural gas and other energy sources.

Natural Gas 1995: Issues and Trends, DOE/EIA-0560(95), November 1995.

U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves - 1995 Annual Report, DOE/EIA-0216(95)/Advance Summary, October 1996.

Annual Energy Review 1995, DOE/ EIA-0384(95), July 1996. Published annually.

Annual Report to Congress 1995 DOE/ EIA-01733(95), July 1996. Published annually.

Annual Energy Outlook 1996, DOE/ EIA-0383(96), January 1996. Published annually.

Selected One-Time Natural Gas and Related Reports

The Value of Underground Storage in Today's Natural Gas Industry, DOE/EIA-0591, March 1995.

Natural Gas Productive Capacity for the Lower 48 States, 1980 through 1995, DOE/EIA-0542(95), July 1994.

Largest U.S. Oil and Gas Fields, DOE/EIA-TR-0567, August 1993.

Energy Policy Act Transportation Rate Study, DOE/EIA-0571, October 1993.

Energy Policy Act Transportation Study: Interim Report of Natural Gas Flows and Rates, DOE/EIA-0602, October 1995.

Selected and Recurring Natural Gas and Related Data Reference Reports

Directory of Energy Data Collection Forms, DOE/EIA-0249(95), January 1996.

Oil and Gas Field Code Master List, 1995, EIA-0370(95), December 1996.

Feature Articles

June 1996

Natural Gas Industry Restructuring and Data Collection

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

July 1996

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

November 1996

U.S. Natural Gas Imports and Exports - 1995

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

December 1996

Crosswell Seismology — A View from Aside

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

May 1997

Restructuring Energy Industries: Lessons from Natural Gas

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

July 1997

Intricate Puzzle of Oil and Gas "Reserves Growth"

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

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

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.)

July 1998

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

April 1999

Natural Gas 1998: Issues and Trends - Executive Summary

(Examines the current natural marketplace from a series of vantage points.)

Special Focuses

January 1997

Natural Gas Productive Capacity

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

Outlook for Natural Gas Through 2015

(Presents an outlook for natural gas through 2015.)

August 1997

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

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

September 1997

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

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

May 1998

Deliverability on the Interstate Natural Gas Pipeline System

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

Special Reports

March 1997

Natural Gas Analysis and Geographic Information Systems

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

April 1997

Natural Gas Pipeline and System Expansions

(Examines recent expansions to the North American natural gas)

Natural Gas 1996: Highlights

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

July 1997

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

August 1997

U.S. Natural gas Imports and Exports - 1996

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

September 1997

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

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

October 1997

Comparison of Natural Gas Storage Estimates from the EIA and AGA

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

April 1998

Natural Gas 1997: A Preliminary Summary

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

July l998

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

August 1998

U.S Natural Gas Imports and Exports - 1997

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

April 1999

Natural Gas 1998: A Preliminary Summary

(Reviews data for 1998 based on Energy Information Administration surveys.)

Appendix E

Technical Contacts

Section	Tables		Principal Data Sources	Technical Contact
Summary Statistics: Natural Gas Production	1,2,3	Monthly: Annual:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202)586-6119
		Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202)586-4790
Extraction Loss	1	Monthly: Annual:	EIA computations Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"	Margo Natof (202)586-6303
Supplemental Gaseous Fuels	2	Monthly: Annual:	EIA computations Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"	Margo Natof (202)586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Import and Exports"	Linda Cook (202)586-6306
Price: City Gate, Residential, Commercial, and Industrial	4	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202)586-4790
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-895, "Monthly Quantity and Value of Natural Gas Report"	Sylvia Norris (202)586-6106
Electric Utility	4	Monthly:	Form FPC-423, "Cost and Quality of Fuels for Electric Power Plants"	Roy Kass (202)586-4790
Summary of Natural Gas Imports and Exports	5,6	Monthly:	Quarterly Natural Gas Import and Export Sales and Price Report	Linda Cook (202)586-6306
Producer Related Activities: Natural Gas Production	7,8	Monthly:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202)586-6119
Underground Storage:	9,10,11, 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 Onsystem Sales	20 21 22 23 24 25	Monthly: 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" Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202)586-4790 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 (InfoDisk); (4) The Energy Information Administration's Fax on Demand System; and (5) diskettes.

	Internet	Dial-In	Infodisk	E-Mail	Diskette
ANNUAL PUBLICATIONS					
Natural Gas Annual, 1997 Provides information on supply and disposition of natural gas in the United States. Information is provided nationally, regionally, and by State for 1997.	V P		V P		P
Historical Natural Gas Annual, 1930 through 1997 Contains historical information about supply and disposition of natural gas at the national, regional, and State level, as well as prices at selected points in the flow of gas from wellhead to burnertip.	P		P		P
Natural Gas 1996: Issues and Trends Examines how industry restructuring continues to expand choices, and challenges, for industry, participants, and natural gas customers.	V		V		
Natural Gas 1995: Issues and Trends Addresses current issues affecting the natural gas industry and markets, and analyzes trends in the most recent natural gas data.	V		V		
Natural Gas 1994: Issues and Trends Provides an overview of the natural gas industry in 1993 and early 1994, focusing on the overall ability to deliver gas under the new regulatory mandates of the Federal Energy Regulatory Commission's Order 636.	V		V		
U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves Annual Report, 1996 1996 national and State estimates of reserves, reserve changes, and production, plus industry highlights.	V		V		

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

	Internet	Dial-In	Infodisk	E-Mail	Diskette
Natural Gas Productive Capacity for the Lower 48 States 1986-1998 Analysis of monthly natural gas wellhead productive capacity.	V		V		
MONTHLY PUBLICATIONS					
Natural Gas Monthly, from the previous 12 months Entire Publication in viewable format.	V		V		
OTHER PUBLICATIONS					
Natural Gas Weekly Market Update Analysis of current price, supply and storage data along with a two week snapshot of the weather in four distinct metropolitan areas.	V				
Deliverability on the Interstate Natural Pipeline System This publication chronicles and analyzes pipeline growth from the perspective of the natural gas shipper and pipeline transporter.	V				
Natural Gas 1997: Preliminary Highlights This Special Focus, which was featured in the April 1998 issue of the *Natural Gas Monthly*, presents events that affected the natural gas industry during 1997.	V	P			
Energy Policy Act Transportation Study: Interim Report on Natural Gas Flow and Rates (EPACT) Analysis of natural gas transportation rates and distribution patterns for the period 1988 through 1994.	V		V		
Oil Production Capacity Extension Cost for the Persian Gulf Quantifies the cost of expanding oil production capacity for the Persian Gulf based on geologic plays and fields rather than country-level economics. Development costs and volumes are estimated for the next 15 years.	V		V		
Costs and Indices for Domestic Oil and Gas Fields Equipment and Production Operations 1993-1996 Cost of equipment and operation of oil and gas wells in the lower 48 States.	V		V		
Drilling Sideways- A Review of Horizontal Well Technology and the Domestic Application Salient aspects of current and near-future horizontal drilling and completion technology.	V		V		
International Oil and Gas Exploration and Development Compilation of country-level data and assessment of regional trends relating to upstream aspects of global oil and gas supply.	V		V		
Oil and Gas Field Code Master List Comprehensive listing of U.S. oil and gas field names as of October 1997.	V		V		
Oil and Gas Resources of the Fergana Basin (Uzbekistan, Tadzhikistan, and Kyrgysztan) Reservoir level assessments of oil and gas ultimate recovery in the former Soviet Union area.	V		V		

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The Value of Underground Storage in Today's Natural Gas Industry. Explores the significant and changing role of storage in the industry.	V		V		
U.S. Oil and Gas Development in the Early 1900's Analyses of the growing prominence of smaller energy companies in U.S. oil and gas production	V		V		
ANNUAL DATA					
Natural Gas Supply and Disposition, by State 1997	V P	V P			
Natural Gas Summary, United States by Year 1990-1997	V P	V P			
Natural Gas Annual 1997 data Self-extracting file containing data (in comma-delimited format) that appear in the tables in the 1997 *Natural Gas Annual*.	P		P		P
Historical Natural Gas Annual 1997 data Self-extracting file containing historical information (in comma-delimited format) found in the tables in Volume 2 of the 1997 *Natural Gas Annual*. Annual historical data at the national level are presented for 1930-1997. Annual information by State and region is presented for 1967-1997.	P		P		P
1997 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for 1997.	P				P
1996 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for 1996.	P				P
Data archive of historical reserves estimates for U.S. Crude Oil, Natural Gas, and Natural Gas Liquids National, State, and State subregion data published in the reserves balance tables of *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves* from 1977 forward.	P				P
MONTHLY DATA					
Natural Gas Production, United States by Month 1989-forward	P	P			
Natural Gas Supply and Disposition 1989-forward	P	P		E	
Natural Gas Imports and Exports 1989-forward	P	P			
Natural Gas Underground Storage: United States Total by Month 1989-forward	P	P		E	
Natural Gas Prices: United States Total by Month 1989-forward	P	P		E	
Natural Gas Consumption by Sector: United States Total by Month 1989-forward	P	P		E	
SELF-EXTRACTING COMPRESSED DATA FILE ARCHIVES					
Natural Gas Consumption and Prices, for most recent 2-3 years	P	P			
Natural Gas Consumption and Prices, for 1984-1995	P	P			

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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.