

1 of 2

# **Natural Gas Monthly**

## **August 1993**

**Energy Information Administration**  
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**MASTER**

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## Preface

The *Natural Gas Monthly (NGM)* is prepared in the Data Operations Branch of the Reserves and Natural Gas Division, Office of Oil and Gas, Energy Information Administration (EIA), U.S. Department of Energy (DOE).

General questions and comments regarding the *NGM* may be referred to Kendrick E. Brown, Jr. (202) 586-6077, Audrey E. J. Corley (202) 586-4804, or Eva M. Fleming (202) 586-6113. 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.

# Common Abbreviations Used in the Natural Gas Monthly

AGA	American Gas Association	IOGCC	Interstate Oil and Gas Compact Commission
Bbl	Barrels	LNG	Liquefied Natural Gas
BLS	Bureau of Labor Statistics, U.S. Department of Labor	Mcf	Thousand Cubic Feet
Bcf	Billion Cubic Feet	MMBtu	Million British Thermal Units
BOM	Bureau of Mines, U.S. Department of the Interior	MMcf	Million Cubic Feet
Btu	British Thermal Unit	MMS	United States Minerals Management Service, U.S. Department of the Interior
DOE	U.S. Department of Energy	NGL	Natural Gas Liquids
DOI	U.S. Department of the Interior	NGPA	Natural Gas Policy Act of 1978
EIA	Energy Information Administration, U.S. Department of Energy	OCS	Outer Continental Shelf
FERC	Federal Energy Regulatory Commission	PGA	Purchased Gas Adjustment
		Tcf	Trillion Cubic Feet

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# U.S. Natural Gas Imports and Exports--1992

by Ann M. Ducca and Norman Crabtree

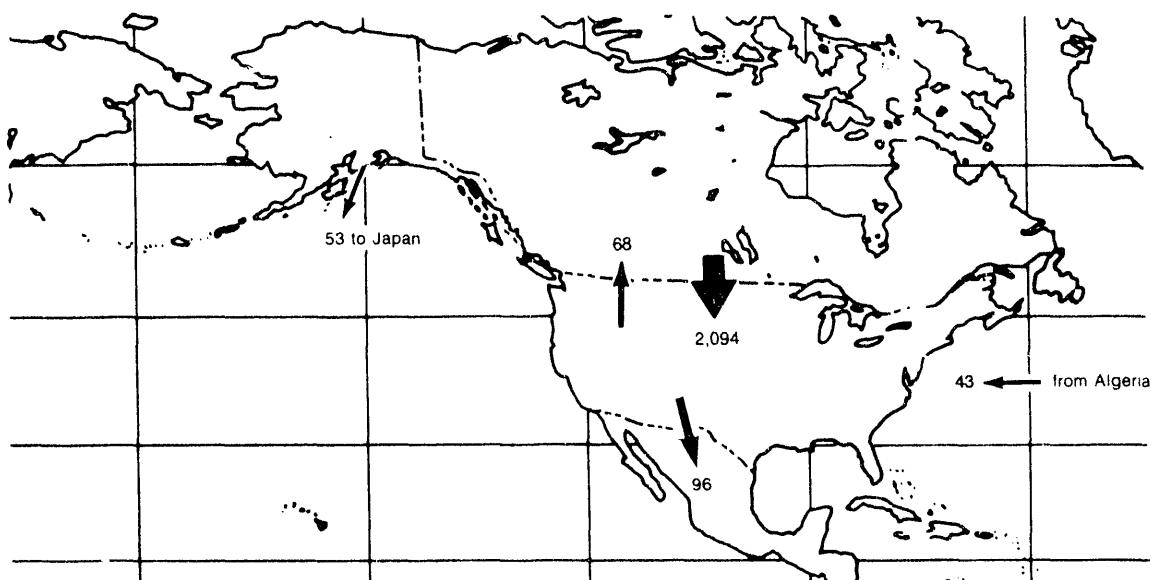
## Highlights

Natural gas import and export activity in North America during 1992 indicated the continued emergence of an integrated market for the continent. Brisk trading took place between Canada and the United States and from the United States into Mexico. Some of the highlights of the year for U.S. imports and exports were:

- The United States imported a record level of 2,094 billion cubic feet of natural gas from Canada, 23 percent higher than the previous record set in 1991.
- The proportion of U.S. natural gas consumption represented by net imports climbed again, for the sixth consecutive year, reaching 10 percent in 1992.
- Canadian imports to the Northeastern United States rose dramatically while those to California fell slightly.

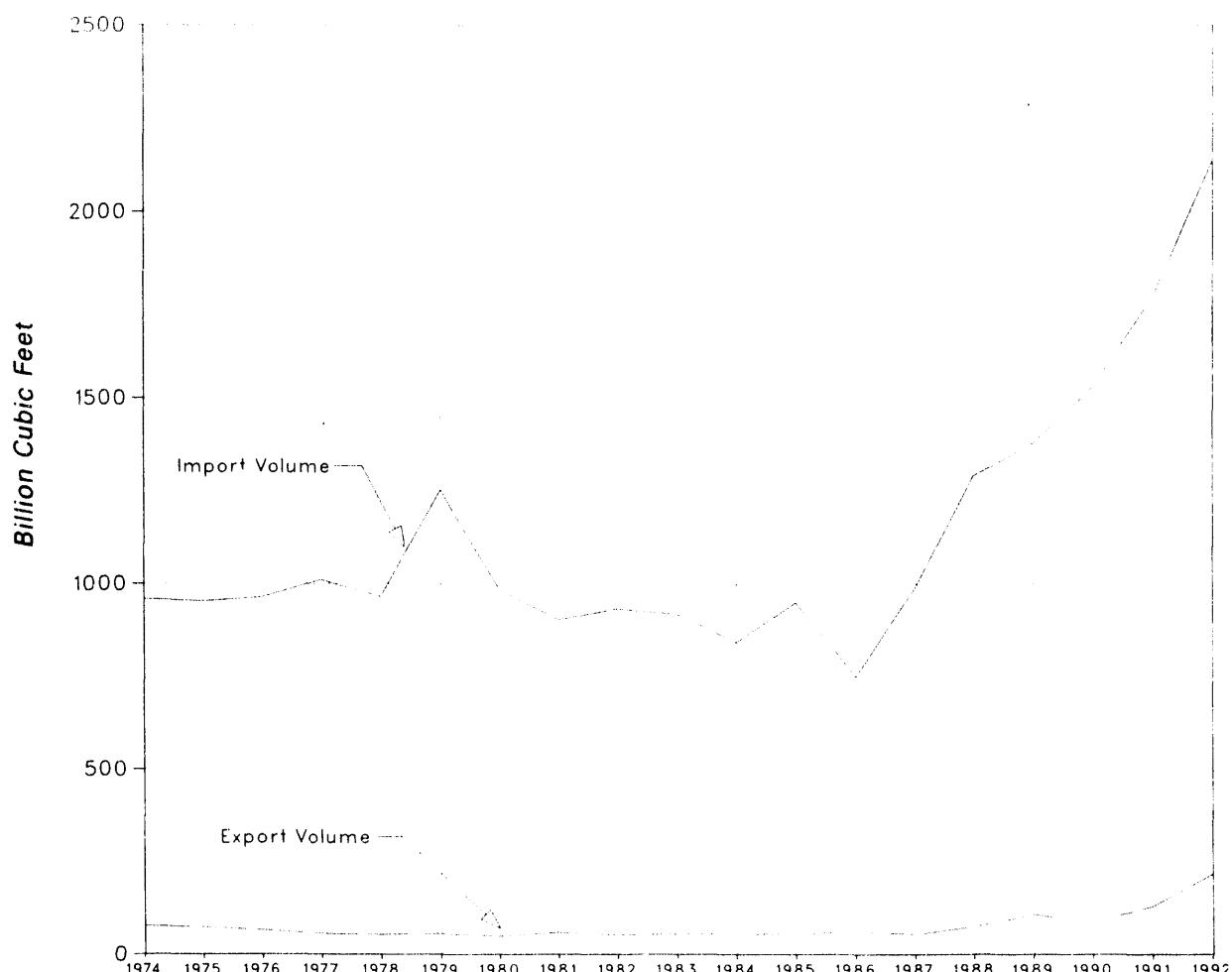
- Exports of natural gas to Mexico continued their sharp climb. They reached 96 billion cubic feet, one and one-half times higher than in 1991 and six times higher than in 1990.
- Adding to the export capacity to Mexico, Valero Pipeline began operations on August 1, 1992, on its 3.5-mile interconnect that links Valero's system near Penitas, Texas, to the Petroleos Mexicanos (Pemex) Pipeline near Reynosa, Tamaulipas.
- Exports to Canada also rose sharply to 68 billion cubic feet, more than four times higher than the 1991 level and 76 percent higher than the record level for the last 20 years set in 1989.
- As in the previous year, liquefied natural gas (LNG) was imported only from Algeria. Compared to 1991, LNG imports fell 32 percent to 43 billion cubic feet. Algeria is more interested in supplying LNG to the European market where the price is higher than the U.S. price. In Europe, LNG prices are more closely tied to oil prices.

Figure FE1. Flow of Natural Gas Imports and Exports, 1992  
(Billion Cubic Feet)



Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

**Figure FE2. Total Natural Gas Imports and Exports, 1974-1992**



Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

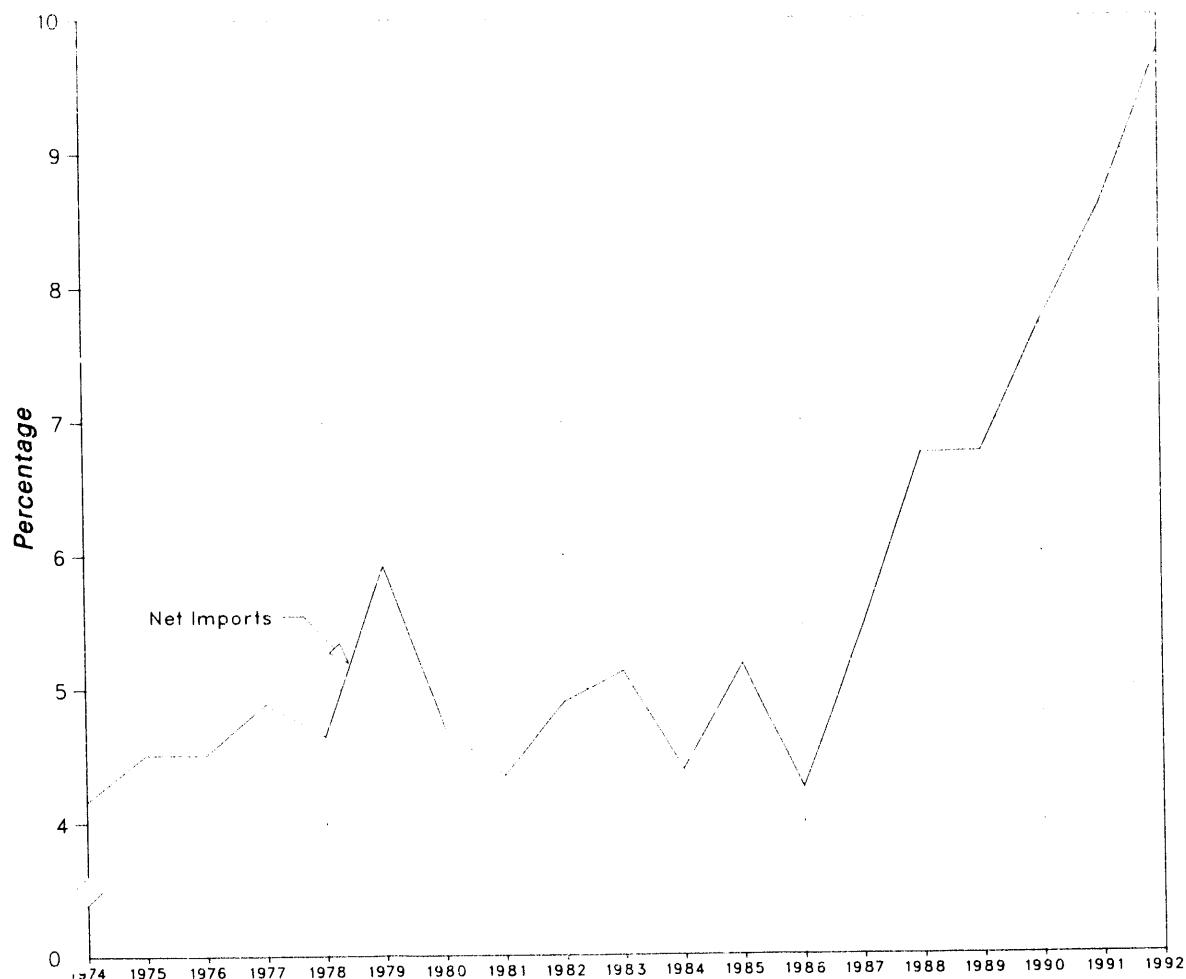
In 1992, the United States imported large volumes of natural gas from Canada and a small amount from Algeria, and exported gas to Mexico, Canada, and Japan (Figure FE1). Total U.S. natural gas imports and exports reached record levels (Table FE1 and Figure FE2). The high volume of Canadian imports, 2,094 billion cubic feet (Table FE2), contributed to the increase in the proportion of U.S. natural gas consumption represented by net imports. It rose to 10 percent in 1992 (Figure FE3). The price of natural gas imports increased by 1 percent from 1991 to \$1.85 per thousand cubic feet while the price for gas exports dropped by 13 percent (Figure FE4 and Table FE3). Prices for gas exports to Canada and Japan fell, but the price of exports to Mexico rose.

## Imports from Canada

During 1992, growing demand, competitive prices, and additional pipeline capacity resulted in increased natural gas imports from Canada. For the fifth consecutive year, they reached a record level. Canadian imports during 1992 totaled 2,094 billion cubic feet, 23 percent more than in 1991 and 45 percent higher than 1990 (Table FE4). Although the price of Canadian gas rose by 2 percent from 1991 to \$1.84 per thousand cubic feet in 1992, it remained competitive. The 1992 price was still 4 percent less than the 1990 price.

Pipeline imports from Canada represented 98 percent of total U.S. natural gas imports. The only other source

**Figure FE3. Net Imports as a Percentage of Total Consumption, 1974-1992**



Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

of natural gas imports during 1992 was liquefied natural gas (LNG) from Algeria.

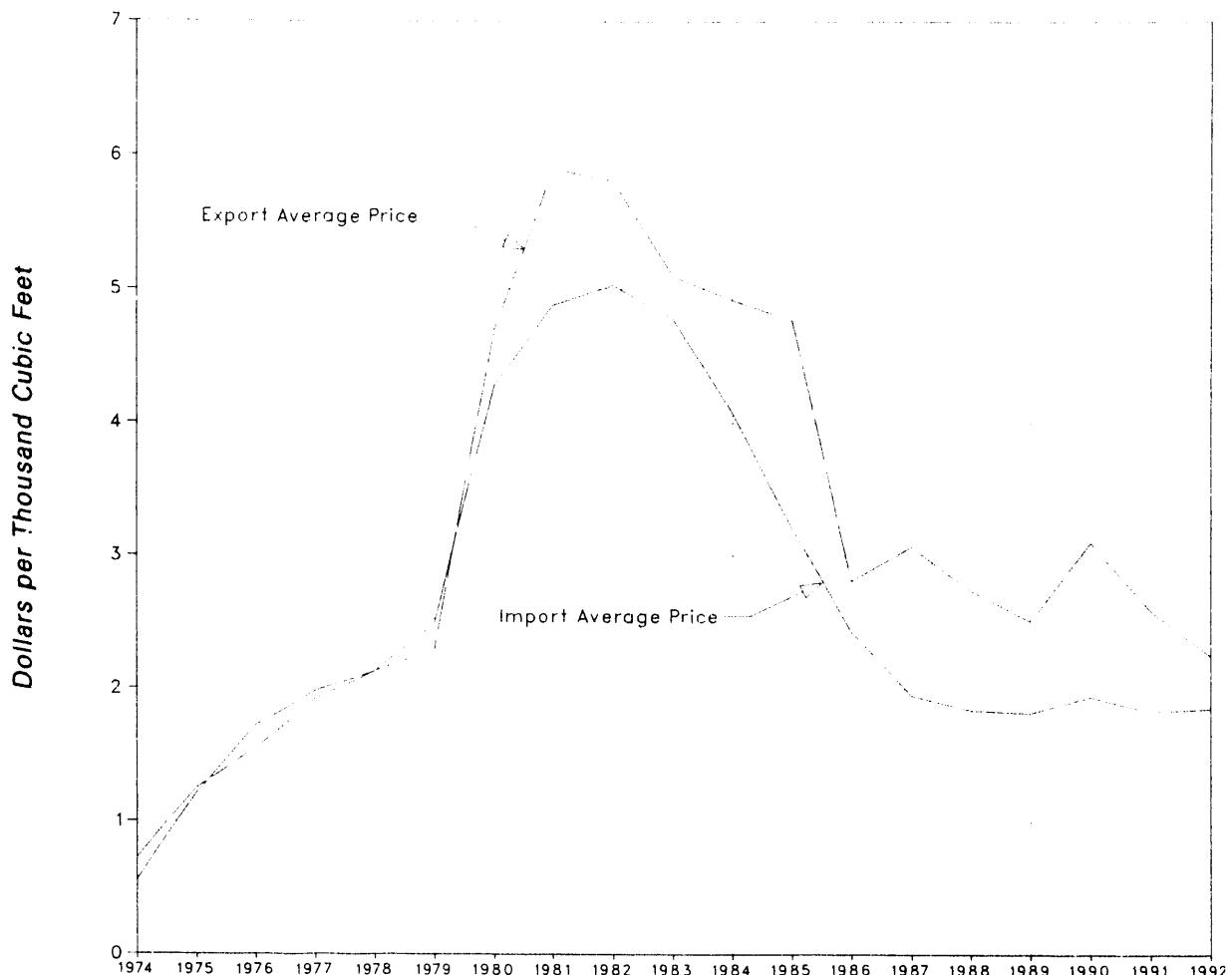
Canadian natural gas imports are marketed in the United States primarily in four geographical areas: the Northeast, the Midwest, the Pacific Northwest, and California. Import volumes increased in all areas except California.<sup>1</sup> In the Northeast, imports from Canada more than doubled. The import capacity available on the Iroquois Pipeline and demand for natural gas by nonutility generators (NUG's) contributed to the increase in the Northeast. NUG's generate electricity for their own use and for sale to electric utilities, which in turn distribute it to consumers.

The State of California's Public Utility Commission and the National Energy Board (NEB) of Canada disagreed during the past year about how to manage the transportation and sale of natural gas from Alberta, Canada, to northern California. The effect of orders issued by the NEB in June 1992 on Canadian gas and transportation services to California was to prevent the displacement of Canadian gas imported into California under long-term contracts by gas imported under short-term agreements.<sup>2</sup>

There are currently two pipeline expansion projects for transporting natural gas from Alberta, Canada, to California. The Pacific Gas Transmission (PGT)

<sup>1</sup>Energy, Mines and Resources Canada, *An Evaluation of 1991/92 Canadian Natural Gas Exports with a Mid-Term Forecast* (January 1993). 1993 Natural Gas Yearbook (New York, NY: Executive Enterprises Publications Co., Inc., 1993).

**Figure FE4. Average Price of Natural Gas Imports and Exports, 1974-1992**



Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

project, a virtual doubling of its Alberta-California gas pipeline capacity, is scheduled for completion by November 1993. Altamont Gas Transmission Company has delayed construction of its pipeline expansion project because of the falling gas demand in California and the PGT expansion. The project was originally envisioned to supply only the California market. However, new plans call for about one-third of the gas to go to California, with the remainder serving Nevada, Utah, Colorado, and possibly Mexico.<sup>3</sup>

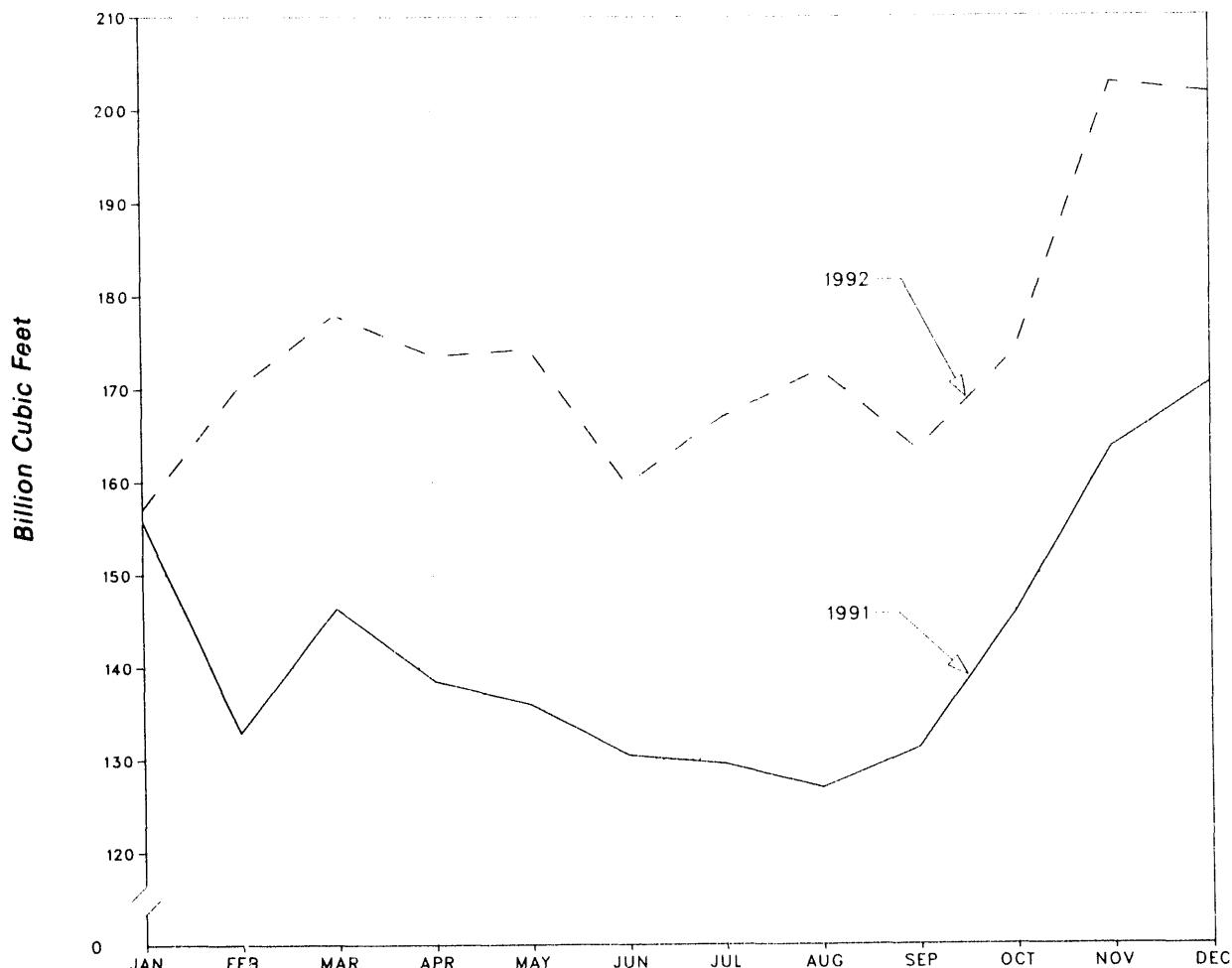
According to the Energy Information Administration publication, *Short-Term Energy Outlook, Third Quarter 1993*, the U.S. use of Canadian natural gas imports will continue to rise. The report projects that total natural

gas net imports will account for over 10 percent of total U.S. gas consumption in 1993 and over 11 percent in 1994. The steady rise in imports from Canada is possible because of the rapid expansion in gas pipeline capacity.

In 1992, 122 companies reported imports of natural gas by pipeline from Canada, compared with 105 companies in 1991 and 85 in 1990. Two companies--Northwest Alaskan Pipeline Co. with 337.0 billion cubic feet and Pacific Gas Transmission Corp. with 309.0 billion cubic feet--accounted for 31 percent of all pipeline imports (Table FE6).

<sup>3</sup> *Natural Gas Week* (May 3, 1993).

**Figure FE5. Monthly Canadian Natural Gas Imports, 1991-1992**



Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

Each month of 1992 showed an increase in Canadian gas imports when compared to imports for the same month of 1991. In January the increase was less than 1 percent. However, in every other month of 1992 the increase was much greater. From February through September and in November, the increases were 20 percent or larger (Table FE7 and Figure FE5).

## Exports to Mexico

Continuing a dramatic climb, U.S. natural gas exports to Mexico rose to 96 billion cubic feet in 1992, more

than 50 percent higher than in 1991 and 6 times greater than in 1990 (Table FE5). Economic growth along Mexico's northern border region, as well as that nation's desire to reduce air pollution, have recently created demand for natural gas.

Mexico has ample natural gas reserves but plans to continue to be a net importer of natural gas while it concentrates on developing its oil reserves.<sup>4</sup> Its refineries produce large quantities of residual fuel oil, the major source of fuel for its electric utilities.<sup>5</sup> Since 1984, Mexico has not exported any gas to the United States.

<sup>4</sup> *Natural Gas Week International* (May 3, 1993).

Under Mexico's move toward a more market-based economy, gas prices, previously set by Petroleos Mexicanos (Pemex), should follow the market. Pemex, the Mexican state-controlled oil and gas company, recently reorganized. The goal of the reorganization is to introduce competition into their oil and gas industry and to streamline management.<sup>5</sup> Each of the new Pemex subsidiaries will be required to show a profit.<sup>6</sup> These events, together with the continued availability of residual fuel oil, may dampen the growth in the Mexican gas market previously anticipated. A drop in the volume of U.S. exports to Mexico has already been observed during 1993.<sup>7</sup>

On August 1, 1992, Valero Transmission began flowing natural gas through its new pipeline which connects its existing pipeline near Penitas, Texas, to Pemex's pipeline outside of Reynosa, Mexico. The largest gas transmission interconnection between the United States and Mexico, it has a capacity of 400 million cubic feet per day. In December 1992, El Paso Natural Gas Company announced a project to construct a pipeline from the border near Clint, Texas, to the Samalayuca II power plant near Ciudad Juarez, Mexico.<sup>8</sup>

Twenty-two companies reported exports to Mexico in 1992, the same number as in the previous year. Three companies--Amoco Energy Trading Company with 12 billion cubic feet, P.M.I. Comercio International with 14 billion cubic feet, and Trinity Pipeline with 15 billion cubic feet--accounted for 42 percent of pipeline exports to Mexico (Table FE8). The average price was \$1.90 per thousand cubic feet in 1992, 8 percent more than in 1991, and 1 percent more than 1990 (Table FE9).

## Exports to Canada

U.S. natural gas exports to Canada rose sharply during 1992 to 68 billion cubic feet, more than four times the level in 1991 and 76 percent higher than the record level for the last 20 years set in 1989. Western Gas Marketing Ltd., exported about one-third of the total volume of gas delivered from the United States into Canada. This company acquired gas from U.S. sources to help TransCanada Pipeline meet its firm service requirements. TransCanada experienced an interruption in service in 1992 due to scheduled maintenance of its pipeline. It will return this gas to Western Gas Marketing over the next 2 years.<sup>10</sup>

<sup>5</sup> *Public Utilities FORTNIGHTLY* (April 1, 1993).

<sup>6</sup> *Natural Gas Intelligence* (December 28, 1992).

<sup>7</sup> *Gas Daily* (Tuesday June 23, 1992).

<sup>8</sup> *The Journal of Commerce* (Wednesday May 26, 1993).

<sup>9</sup> *Oil and Gas Journal* (February 8, 1993).

<sup>10</sup> Energy, Mines and Resources Canada, *An Evaluation of 1991/92 Canadian Natural Gas Exports with a Mid-Term Forecast* (January 1993).

<sup>11</sup> Energy, Mines and Resources Canada, *An Evaluation of 1991/92 Canadian Natural Gas Exports with a Mid-Term Forecast* (January 1993).

Ten companies exported gas to Canada in 1992, the same number as in 1991. Compared to 1991, monthly exports of gas to Canada rose sharply during the months of March through October in 1992. The average price fell to \$1.83 per thousand cubic feet in 1992, 4 percent less than in 1991.

Exports to Canada are not expected to remain at this high level in 1993, primarily due to two reasons: first, the Western Gas Marketing activity in 1992 was unusual, and second, U.S. gas has not penetrated the Canadian market under normal competitive circumstances.<sup>11</sup> The continuing deregulation of the industry and additional proposed pipeline capacity may make U.S. gas more competitive in the Canadian market in the future.

Natural gas trading between the United States and Canada frequently includes backhaul arrangements. A backhaul transaction occurs when a transporting pipeline redelivers gas at a point upstream from the point of receipt. For example, a transaction could be made by a pipeline to move gas downstream from Canada into a U.S. receipt point. Prior to completing this transaction, the pipeline could make a new arrangement to redeliver the gas in Canada before moving it down through the border. Since this type of transaction does not result in the gas actually crossing the border, gas movements arranged via backhaul are not included in the tables in this report. The reporting to the Form FPC-14 is on a custody (physical movements) basis.

The U.S. Department of Energy, Office of Fossil Energy, as part of its regulatory oversight responsibilities, also collects and reports natural gas import and export data. Data are reported to that Office on an equity (sales) basis. Their reports include natural gas sales by backhaul arrangements. U.S. exports to Canada for 1992 reported in the Office of Fossil Energy report, *Natural Gas Imports and Exports, Fourth Quarter 1992*, were 95 billion cubic feet, compared to 68 billion cubic feet in this report. It is evident from this difference that the United States and Canada traded large volumes of gas via backhaul arrangements during 1992.

## Liquefied Natural Gas

Natural gas can be transmitted in a vapor state via pipeline or in a liquid form, liquefied natural gas (LNG). Liquefaction makes overseas transportation possible. The volume of natural gas is greatly reduced

when converted from the vapor state to liquid form. A 600-to-1 volume reduction is achieved by lowering the temperature of natural gas to approximately minus 260 degrees Fahrenheit. During 1992, the United States imported LNG from Algeria and exported it to Japan. Algerian LNG imports represented 2 percent of U.S. gas imports, while LNG exports to Japan represented 24 percent of U.S. natural gas exports.

Approximately 71 percent of the LNG imported from Algeria was delivered to the Distrigas Corporation receiving terminal located in Everett, Massachusetts just north of Boston. The remaining 29 percent was delivered to the Pan National Gas Sales terminal in Lake Charles, Louisiana. LNG imports totaled 43 billion cubic feet in 1992, nearly one-third less than in 1991. Algeria is more interested in supplying LNG to the European market where the price is higher than the U.S. price. In Europe, gas prices are more closely tied to oil prices.

Another LNG receiving terminal, located at Cove Point, Maryland, and owned by Columbia Gas, has not been in operation since 1980. Currently, Columbia plans to reopen the Cove Point terminal in 1995 as a peaking facility.<sup>12</sup>

For future sources of LNG, Distrigas plans to begin importing from Nigeria in 1997.<sup>13</sup> Also, Cabot LNG Corp., the parent company of Distrigas of Massachusetts Corp., is studying the feasibility of developing a LNG export project based in the Republic of Trinidad and Tobago. The gas would come from the Republic's East Coast Marine reserves. Potential markets for this LNG are the U.S. Northeast, the Caribbean, and Western Europe.<sup>14</sup>

Phillips Alaska Natural Gas Corp. and Marathon Oil Co. exported LNG from the Kenai Peninsula in southern Alaska to Japan during 1992. These exports totaled 53 billion cubic feet, continuing the flat trend in LNG exports.

In 1993, Hondo Oil and Gas Company announced a proposal to build a pipeline to bring natural gas from the Mackenzie Delta area in Northwest Canada to the Kenai Peninsula in Alaska for liquefaction and export to Pacific Rim countries. This project would also make natural gas available to the Fairbanks, Alaska, area.<sup>15</sup> Another proposal for shipping LNG from Alaska to Pacific Rim markets is the Yukon-Pacific project which would transport natural gas from the Alaskan North Slope to Valdez, Alaska, for overseas shipment.

<sup>12</sup> *Natural Gas Intelligence* (March 8, 1993).

<sup>13</sup> *Inside F.E.R.C.* (December 14, 1992).

<sup>14</sup> *Inside F.E.R.C.'s Gas Market Report* (February 12, 1993).

<sup>15</sup> *Foster Natural Gas Report* (February 11, 1993).

**Table FE1. Historical Summary of U.S. Natural Gas Net Imports, 1955-1992**  
(Million Cubic Feet)

Year	Total Imports	Total Exports	Net Imports	Total Consumption	Net Imports as Percentage of Total Consumption
1955 .....	10,888	31,029	-	8,693,657	-
1956 .....	10,380	35,963	-	9,286,865	-
1957 .....	37,941	41,655	-	9,846,139	-
1958 .....	135,797	38,719	97,078	10,302,608	0.9
1959 .....	133,990	18,413	115,577	11,321,181	1.0
1960 .....	155,646	11,332	144,314	11,966,537	1.2
1961 .....	218,860	10,747	208,113	12,489,268	1.7
1962 .....	401,534	15,814	385,720	13,266,513	2.9
1963 .....	406,204	16,957	389,247	13,970,229	2.8
1964 .....	443,326	19,603	423,723	14,813,808	2.9
1965 .....	456,394	26,132	430,262	15,279,716	2.8
1966 .....	479,780	24,639	455,141	16,452,403	2.8
1967 .....	564,226	81,614	482,612	17,388,360	2.8
1968 .....	651,885	93,745	558,140	18,632,062	3.0
1969 .....	726,951	51,304	675,647	20,056,240	3.4
1970 .....	820,780	69,813	750,967	21,139,386	3.6
1971 .....	934,548	80,212	854,336	21,793,454	3.9
1972 .....	1,019,496	78,013	941,483	22,101,452	4.3
1973 .....	1,032,901	77,169	955,732	22,049,363	4.3
1974 .....	959,284	76,789	882,495	21,223,133	4.2
1975 .....	953,008	72,675	880,333	19,537,593	4.5
1976 .....	963,768	64,711	899,057	19,946,496	4.5
1977 .....	1,011,002	55,626	955,376	19,520,581	4.9
1978 .....	965,545	52,532	913,013	19,627,478	4.7
1979 .....	1,253,383	55,673	1,197,710	20,240,761	5.9
1980 .....	984,767	48,731	936,036	19,877,293	4.7
1981 .....	903,949	59,372	844,577	19,403,858	4.4
1982 .....	933,336	51,728	881,608	18,001,055	4.9
1983 .....	918,407	54,639	863,768	16,834,914	5.1
1984 .....	843,060	54,753	788,307	17,950,524	4.4
1985 .....	949,715	55,268	894,447	17,280,943	5.2
1986 .....	750,449	61,271	689,178	16,221,296	4.2
1987 .....	992,532	54,020	938,512	17,210,809	5.5
1988 .....	1,293,812	73,638	1,220,174	18,029,588	6.8
1989 .....	1,381,520	106,871	1,274,648	18,800,830	6.8
1990 .....	1,532,259	85,565	1,446,694	18,716,269	7.7
1991 .....	1,773,313	129,244	1,644,068	19,129,403	8.6
1992 .....	2,137,504	216,282	1,921,222	P 19,726,211	9.7

P = Preliminary data.

- = Not applicable.

Note: Geographic coverage is the continental United States including Alaska.

Source: Total Consumption: *Natural Gas Annual 1990 Volume 2* for 1955 through 1988; *Natural Gas Monthly August 1993* for 1989 through 1992. Net imports: 1955-1971: Federal Power Commission, informally collected by letter. 1972-1992: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

**Table FE2. Summary of U.S. Natural Gas Imports, 1991-1992**

Source	Volume			Average Btu/ Cubic Foot		Revenue (thousand dollars)		Average Price			Average Price		
	(million cubic feet)		Percent Change	1991	1992	1991	1992	(dollars/ thousand cubic feet)		Percent Change	(dollars/ million Btu)		Percent Change
	1991	1992		1991	1992	1991	1992	1991	1992		1991	1992	
<b>Pipeline</b>													
Canada	1,708,716	* 2,094,387	22.5	1,011	1,009	3,085,399	3,849,812	1.81	1.84	1.7	1.79	1.82	1.7
<b>LNG</b>													
Algeria	63,596	43,116	-32.2	1,096	1,099	149,994	109,596	2.36	2.54	7.6	2.15	2.31	7.4
Grand Total	1,773,313	* 2,137,504	20.5	1,014	1,011	3,235,393	3,959,408	1.83	1.85	1.1	1.80	1.83	1.7

\* During 1992, Michigan Consolidated Gas Co. imported, on an equivalent Btu basis, 507,644 thousand cubic feet of natural gas from Canada as part of an energy exchange for ethane exported to Canada. There was no cost reported. This exchange volume is excluded in calculating the average prices but included in the total volume imported.

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

Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

**Table FE3. Summary of U.S. Natural Gas Exports, 1991-1992**

Source	Volume			Average Btu/ Cubic Foot		Cost (thousand dollars)		Average Price			Average Price		
	(million cubic feet)		Percent Change	1991	1992	1991	1992	(dollars/ thousand cubic feet)		Percent Change	(dollars/ million Btu)		Percent Change
	1991	1992		1991	1992	1991	1992	1991	1992		1991	1992	
<b>Pipeline</b>													
Canada	14,791	67,777	358.2	1,008	1,011	28,233	124,343	1.91	1.83	-4.2	1.89	1.81	-4.2
Mexico	60,448	95,973	58.8	1,037	1,028	106,634	182,760	1.76	1.90	8.0	1.70	1.85	8.8
Total	75,239	163,750	117.6	1,032	1,021	134,866	307,104	1.79	1.88	5.0	1.74	1.84	5.7
<b>LNG</b>													
Japan	54,005	52,532	-2.7	1,010	1,010	200,114	180,332	3.71	3.43	-7.5	3.67	3.40	-7.4
Grand Total	129,244	216,282	67.3	1,022	1,018	334,980	487,436	2.59	2.25	-13.1	2.54	2.21	-13.0

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

Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

**Table FE4. Historical Summary of U.S. Natural Gas Imports, 1955-1992**  
 (Volume in Million Cubic Feet; Average Price in Dollars per Thousand  
 Cubic Feet)

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

<sup>a</sup> Volumes reported for 1966 through 1992 are on a pressure base of 14.73 pounds per square inch absolute and 60 degrees Fahrenheit. Volumes for 1955 through 1965 are as reported.

<sup>b</sup> During 1992, Michigan Consolidated Gas Co. imported, on an equivalent Btu basis, 507,644 thousand cubic feet of natural gas from Canada as part of an energy exchange for ethane exported to Canada. There was no cost reported. This exchange volume is excluded in calculating the average prices, but included in the total volume imported.

NA = Not available.

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

Source: 1955-1971: Federal Power Commission, informally collected by letter. 1972-1992: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

**Table FE5. Historical Summary of U.S. Natural Gas Exports, 1955-1992**  
 (Volume in Million Cubic Feet; Average Price in Dollars per Thousand  
 Cubic Feet)

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

<sup>a</sup> Volumes reported for 1966 through 1992 are on a pressure base of 14.73 pounds per square inch absolute and 60 degrees Fahrenheit. Volumes for 1955 through 1965 are as reported.

NA = Not available.

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

Source: 1955-1971: Federal Power Commission, informally collected by letter. 1972-1992: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

**Table FE6. U.S. Natural Gas Imports, 1991-1992**

Importing Companies	Docket Number	Point of Entry		Volume		
		City	State	(thousand cubic feet)		Percent Change
				1991	1992	
<b>Pipeline Imports From Canada</b>						
Access Energy Corp	FE90-81-NG	Eastport	ID	0	692,479	-
American Hunter Exploration Lt	ERA87-08-NG et al.	Eastport	ID	15,948,045	12,714,327	-20.3
	ERA87-08-NG	Niagara Falls	NY	2,728,667	0	-
	FE92-27-NG et al.	Sumas	WA	0	671,428	-
Amoco Canada Marketing Corp	FE92-33-NG	Eastport	ID	0	585,261	-
Amoco Energy Trading Co	FE90-35-NG	Eastport	ID	3,135,488	1,149,555	-63.3
	FE90-35-NG	Niagara Falls	NY	0	274,572	-
	FE92-91-NG	Port of Morgan	MT	107,076	115,554	7.9
ANR P L Co	FE90-41-NG et al.	Noyes	MN	28,058,790	58,350,941	108.0
Aquila Energy Marketing Corp.	ERA87-17-NG	Babb	MT	0	375,033	-
	ERA87-17-NG	Niagara Falls	NY	310,920	240,726	-22.6
	ERA87-17-NG	Noyes	MN	254,535	0	-
	ERA87-17-NG	Port of Morgan	MT	594,943	61,175	-89.7
Atlantic Richfield Company	FE92-57 et al.	Sumas	WA	4,515,776	3,194,280	-29.3
Bonus Gas Processors Inc	ERA88-09-NG et al.	Eastport	ID	2,914,304	0	-
Border To Border P L Co	FE91-22-NG	Port of Morgan	MT	168	0	-
Boston Gas Company	ERA86-56-NG	Eastport	ID	16,763	0	-
Boundary Gas Inc	FE89-38-NG	Waddington	NY	0	9,523,048	-
Bridgegas U.S.A.,Inc	ERA88-64-NG	Niagara Falls	NY	23,826,419	31,842,435	33.6
Brooklyn Union Gas Co	FE91-111-NG	Eastport	ID	0	92,316	-
Brooklyn Union Gas Co Et Al	FE91-111-NG	Sumas	WA	0	112,142	-
Brymore Energy Inc	ERA87-12-NG et al.	Niagara Falls	NY	2,004,982	0	-
	ERA86-48-NG	Niagara Falls	NY	610,000	3,369,453	452.4
	FE91-11-NG	Waddington	NY	1,274,100	95,000,849	7,356.3
	FE91-17-NG et al.	Eastport	ID	2,877,123	900,522	-68.7
	FE91-17-NG	Niagara Falls	NY	572,638	85,361	-85.1
	FE89-20-NG et al.	Noyes	MN	2,672,975	1,381,335	-48.3
	FE91-17-NG	St Clair River	MI	0	42,637	-
	FE91-17-NG	Sumas	WA	0	87,105	-
Canadian Hydro.Mktg.(US)	FE91-17-NG	Waddington	NY	0	16,650	-
	FE90-101-NG	Eastport	ID	1,276,454	863,732	-32.3
	FE90-101-NG	Piegan	MT	0	2,393,160	-
Canadianoxy Marketing Inc.	FE90-101-NG	Sumas	WA	10,822,168	6,430,159	-40.6
	FE90-98-NG	Babb	MT	0	134,606	-
	FE90-98-NG	Noyes	MN	5,924,561	4,227,064	-28.7
Canstates Gas Marketing	FE90-98-NG	Port of Morgan	MT	0	73,412	-
Canterra Natural Gas Inc	FE90-102-NG	Waddington	NY	25,250	172,523	583.3
Canwest Gas Supply Inc.	FE89-11-NG	Noyes	MN	1,481,764	0	-
Cascade Nat Gas Corp	FE89-11-NG	Sumas	WA	1,962,028	0	-
Chevron Nat Gas Svc Inc	FE90-95-NG	Sumas	WA	13,290,951	60,509,963	355.3
Cibola Corp.	FE90-76-NG et al.	Sumas	WA	12,173,562	19,203,084	57.7
	FE89-79-NG	Eastport	ID	191,724	702,191	266.3
	FE89-79-NG et al.	Sumas	WA	757,750	0	-
	FE91-44-NG	Piegan	MT	0	325,963	-
	FE91-44-NG	Port of Morgan	MT	0	24,902	-
	FE91-44-NG	St Clair River	MI	0	304,914	-
City of Warroad,Minnesota	FE91-44-NG	Waddington	NY	0	114,380	-
Coastal Gas Marketing Co	FE90-97-NG	Warroad	MN	88,979	62,302	-30.0
	FE90-19-NG	Babb	MT	0	76,542	-
	FE90-19-NG	Eastport	ID	0	3,998,968	-
	FE90-19-NG et al.	Niagara Falls	NY	616,920	1,626,337	163.6
	FE90-19-NG et al.	Noyes	MN	8,872,876	5,425,775	-38.8
	FE90-19-NG	St Clair River	MI	838,882	0	-
	FE90-19-NG	Sumas	WA	8,839,990	496,615	-94.4
Coenergy Ventures Inc	FE90-19-NG	Waddington	NY	0	3,930,974	-
Conoco Inc	FE91-120-NG	St Clair River	MI	0	1,251,019	-
Consol Edison Co of N Y Inc	FE89-44-NG	Sumas	WA	94,256	0	-
Consumers Power Co	FE89-24-NG	Niagara Falls	NY	4,580,581	10,882,219	137.6
Continental Energy Mktg.Ltd.	FE88-38-NG et al.	Noyes	MN	22,801,650	24,447,400	7.2
CU Energy Marketing Inc	FE91-75-NG	Niagara Falls	NY	0	1,285,793	-
Czar Gas Corp Inc	FE91-75-NG	St Clair River	MI	0	24,552	-
	FE91-75-NG	Waddington	NY	0	5,455,439	-
	ERA86-42-NG et al.	Eastport	ID	2,071,557	2,867,745	38.4
	FE90-60-NG	Sumas	WA	2,496,500	1,777,000	-28.8

See footnotes at end of table.

**Table FE6. U.S. Natural Gas Imports, 1991-1992 (Continued)**

Heating Content (million Btu)		Average Btu/ Cubic Foot		Revenue (dollars)		Average Price				Volume (barrels)	
1991	1992	1991	1992	1991	1992	(dollars/thousand cubic feet)		(dollars/million Btu)		1991	1992
						1991	1992	1991	1992		
0	703,888	-	1,016	0	1,177,672	-	1.70	-	1.67	-	-
16,185,153	12,941,477	1,015	1,018	21,055,127	18,939,072	1.32	1.49	1.30	1.46	-	-
2,741,635	0	1,005	-	3,661,635	0	1.34	-	1.34	-	-	-
0	685,381	-	1,021	0	750,563	-	1.12	-	1.10	-	-
0	599,080	-	1,024	0	1,100,592	-	1.88	-	1.84	-	-
3,186,898	1,161,151	1,016	1,010	4,595,077	1,496,742	1.47	1.30	1.44	1.29	-	-
0	277,043	-	1,009	0	423,876	-	1.54	-	1.53	-	-
108,967	117,706	1,018	1,019	177,071	181,915	1.65	1.57	1.62	1.55	-	-
27,749,782	58,093,433	989	996	25,196,377	• 57,267,263	.90	.98	.91	.99	-	-
0	382,529	-	1,020	0	422,471	-	1.13	-	1.10	-	-
311,853	247,707	1,003	1,029	717,262	448,350	2.31	1.86	2.30	1.81	-	-
255,695	0	1,005	-	355,635	0	1.40	-	1.39	-	-	-
606,603	66,680	1,020	1,090	665,051	109,705	1.12	1.79	1.10	1.65	-	-
4,696,409	3,309,275	1,040	1,036	7,551,004	4,999,896	1.67	1.57	1.61	1.51	-	-
2,953,778	0	1,014	-	4,203,871	0	1.44	-	1.42	-	-	-
172	0	1,024	-	1	0	.01	-	.01	-	-	-
16,985	0	1,013	-	21,914	0	1.31	-	1.29	-	-	-
0	9,656,235	-	1,014	0	27,396,941	-	2.88	-	2.84	-	-
23,561,763	31,697,447	989	995	71,953,650	83,835,757	3.02	2.63	3.05	2.64	-	-
0	92,316	-	1,000	0	138,208	-	1.50	-	1.50	-	-
0	112,142	-	1,000	0	114,255	-	1.02	-	1.02	-	-
2,019,045	0	1,007	-	4,309,162	0	2.15	-	2.13	-	-	-
605,730	3,349,977	993	994	1,788,386	9,020,680	2.93	2.68	2.95	2.69	-	-
1,265,181	94,357,932	993	993	3,769,917	262,487,197	2.96	2.76	2.98	2.78	-	-
2,884,052	917,101	1,002	1,018	3,321,146	1,256,312	1.15	1.40	1.15	1.37	-	-
577,083	86,130	1,008	1,009	873,110	120,582	1.52	1.41	1.51	1.40	-	-
2,690,600	1,404,651	1,007	1,017	4,012,372	1,765,486	1.50	1.28	1.49	1.26	-	-
0	43,063	-	1,010	0	102,920	-	2.41	-	2.39	-	-
0	90,107	-	1,034	0	129,927	-	1.49	-	1.44	-	-
0	16,800	-	1,009	0	23,520	-	1.41	-	1.40	-	-
1,323,018	889,673	1,036	1,030	1,512,834	1,354,248	1.19	1.57	1.14	1.52	-	-
0	2,441,954	-	1,020	0	2,526,787	-	1.06	-	1.03	-	-
11,217,243	6,623,503	1,037	1,030	14,920,292	9,400,587	1.38	1.46	1.33	1.42	-	-
0	134,606	-	1,000	0	127,872	-	.95	-	.95	-	-
5,951,053	4,270,953	1,004	1,010	10,282,474	6,210,134	1.74	1.47	1.73	1.45	-	-
0	74,879	-	1,020	0	105,918	-	1.44	-	1.41	-	-
25,250	172,965	1,000	1,003	53,025	278,384	2.10	1.61	2.10	1.61	-	-
1,484,398	0	1,002	-	1,764,927	0	1.19	-	1.19	-	-	-
2,026,405	0	1,033	-	2,685,215	0	1.37	-	1.33	-	-	-
13,782,714	62,748,833	1,037	1,037	19,174,245	74,622,897	1.44	1.23	1.39	1.19	-	-
12,538,000	19,958,851	1,030	1,039	21,649,353	31,993,232	1.78	1.67	1.73	1.60	-	-
191,724	716,937	1,000	1,021	234,939	1,072,175	1.23	1.53	1.23	1.50	-	-
759,989	0	1,003	-	1,345,093	0	1.78	-	1.77	-	-	-
0	330,503	-	1,014	0	287,454	-	.88	-	.87	-	-
0	25,168	-	1,011	0	25,420	-	1.02	-	1.01	-	-
0	308,878	-	1,013	0	475,666	-	1.56	-	1.54	-	-
0	115,181	-	1,007	0	173,923	-	1.52	-	1.51	-	-
89,534	62,985	1,006	1,011	345,676	266,631	3.88	4.28	3.86	4.23	-	-
0	76,542	-	1,000	0	91,850	-	1.20	-	1.20	-	-
0	3,998,968	-	1,000	0	5,655,595	-	1.41	-	1.41	-	-
623,090	1,626,337	1,010	1,000	788,330	2,829,685	1.28	1.74	1.27	1.74	-	-
8,872,876	5,425,775	1,000	1,000	9,551,337	7,456,176	1.08	1.37	1.08	1.37	-	-
847,271	0	1,010	-	1,493,520	0	1.78	-	1.76	-	-	-
8,937,230	496,615	1,011	1,000	10,666,934	484,803	1.21	.98	1.19	.98	-	-
0	3,930,974	-	1,000	0	6,069,128	-	1.54	-	1.54	-	-
0	1,251,019	-	1,000	0	2,831,253	-	2.26	-	2.26	-	-
94,256	0	1,000	-	165,303	0	1.75	-	1.75	-	-	-
4,602,351	11,020,999	1,005	1,013	14,388,430	28,768,614	3.14	2.64	3.13	2.61	-	-
22,939,351	24,766,650	1,006	1,013	55,180,632	53,847,707	2.42	2.20	2.41	2.17	-	-
0	1,305,671	-	1,015	0	2,624,007	-	2.04	-	2.01	-	-
0	24,945	-	1,016	0	57,698	-	2.35	-	2.31	-	-
0	5,539,087	-	1,015	0	13,082,481	-	2.40	-	2.36	-	-
2,097,021	2,911,984	1,012	1,015	2,505,676	4,264,610	1.21	1.49	1.19	1.46	-	-
2,603,714	1,845,978	1,043	1,039	2,818,074	1,801,974	1.13	1.01	1.08	.98	-	-

See footnotes at end of table.

**Table FE6. U.S. Natural Gas Imports, 1991-1992 (Continued)**

Importing Companies	Docket Number	Point of Entry		Volume		
		City	State	(thousand cubic feet)		Percent Change
				1991	1992	
<b>Pipeline Imports From Canada</b>						
Dartmouth Power Associates Ltd	FE90-80-NG	Waddington	NY	0	832,933	-
Dekalb Energy Co	FE91-13-NG et al.	Noyes	MN	6,898,729	1,215,501	-82.4
Development Associates	FE90-15-NG	Sumas	WA	6,822,904	663,785	-90.3
Direct Energy Marketing Ltd	ERA86-55-NG et al.	Eastport	ID	0	1,812,787	-
	ERA86-55-NG et al.	Niagara Falls	NY	0	1,019,951	-
	ERA86-55-NG	Noyes	MN	0	93,000	-
Dome Petro Ltd	FE89-80-NG	Eastport	ID	1,294,696	0	-
	FE89-90-NG	Niagara Falls	NY	219,803	263,567	19.9
	FE88-47-NG	Noyes	MN	4,672,592	5,346,296	14.4
	FE89-80-NG	St Clair River	MI	311,719	0	-
Elizabethtown Gas Company	FE90-25-NG	Niagara Falls	NY	0	610,000	-
Energy Marketing Exchange Inc	ERA85-39-NG et al.	Niagara Falls	NY	1,906,514	1,433,210	-24.8
	ERA85-39-NG	Noyes	MN	353,568	891,258	152.1
Enron Gas Marketing Inc	ERA85-39-NG	Waddington	NY	0	162,939	-
	FE89-57-NG	Eastport	ID	0	690,068	-
	FE89-57-NG	Noyes	MN	0	18,537	-
	FE89-57-NG et al.	Port of Morgan	MT	3,645,984	5,622,755	54.2
	FE89-57-NG et al.	Sumas	WA	0	546,600	-
	FE89-57-NG et al.	Waddington	NY	0	171,852	-
Fulton Cogeneration Assoc.	FE90-34-NG	Niagara Falls	NY	2,084,592	3,248,544	55.8
Gasmark Inc	FE91-112-NG	Eastport	ID	0	1,559,431	-
	ERA87-10-NG	Sumas	WA	713,682	0	-
Goetz Energy Corp	FE92-63-NG	Niagara Falls	NY	0	4,452	-
Grand Valley Gas Co	FE91-38-NG et al.	Eastport	ID	10,823,882	13,332,881	23.2
Granite State Gas Trans Inc	FE91-38-NG	Sumas	WA	11,768,472	36,927,198	213.8
Great Falls Gas Company	ERA87-39-00 et al.	North Troy	VT	8,650,649	9,652,677	11.6
Great Lakes Gas Trans Co	FE90-23-NG	Waddington	NY	0	2,066,123	-
Husky Gas Marketing Inc.	FE92-104-NG	Babb	MT	0	318,059	-
	ERA79-02-NG	Noyes	MN	21,364,063	0	-
	FE91-16-NG	Niagara Falls	NY	0	246,887	-
	FE91-16-NG	Noyes	MN	100,199	1,529,196	1426.2
	FE91-16-NG	Port of Morgan	MT	64,545	5,723,035	8766.7
	FE91-16-NG	Sumas	WA	349,974	3,325,870	850.3
IGI Resources Inc	FE90-50-NG	Eastport	ID	1,129,589	743,640	-34.2
	FE90-50-NG	Sumas	WA	15,526,015	15,457,817	-4
Indeck Energy Svc (Oswego) Inc	FE89-22-NG	Niagara Falls	NY	4,371,397	4,216,761	-3.5
Indeck-Yerkes Energy Svc Inc	FE89-21-NG	Niagara Falls	NY	4,414,121	4,248,394	-3.8
Intalco Aluminum Corp	FE88-71-NG	Sumas	WA	430,724	517,494	20.1
Interenergy Corporation	FE91-97-NG et al.	Babb	MT	0	45,960	-
JMC Fuel Services Inc	FE91-02-NG	Niagara Falls	NY	0	57,942	-
Jonan Gas Marketing Inc	FE91-02-NG	Waddington	NY	0	16,649	-
Kamine/Besicorp Carthage L P	FE91-36-NG	Eastport	ID	460,243	775,546	68.5
	FE89-48-NG	Niagara Falls	NY	171,351	3,217,157	1777.5
Kamine/Besicorp-S Glens Falls	FE89-48-NG	Waddington	NY	0	700,056	-
Kimball Energy Corp	FE89-47-NG	Noyes	MN	503,533	4,301,528	754.3
	FE91-114-NG	Eastport	ID	1,051,451	4,361,913	314.8
	FE91-114-NG et al.	Sumas	WA	5,215,370	4,166,483	-20.1
Ledco Inc	FE90-14-NG et al.	Noyes	MN	6,275,677	0	-
Lockport Energy Associates L P	FE91-42-NG	Niagara Falls	NY	0	473,692	-
Louis Dreyfus Energy Corp	FE92-78-NG et al.	Niagara Falls	NY	0	1,850,580	-
Megan-Racine Associates Inc	FE89-49-NG	Massena	NY	946,556	3,237,577	242.0
Michigan Consol Gas Co	FE91-94-NG	Noyes	MN	2,152,608	7,825,991	263.6
Michigan Gas Co	ERA87-58-NG	Noyes	MN	563,866	0	-
Midland Cogeneration Venture	FE88-39-NG et al.	Noyes	MN	19,207,258	26,715,301	39.1
Minngasco Inc	ERA87-106-000	Noyes	MN	2,812,973	12,551,648	346.2
Mobil Natural Gas Inc	FE91-100-NG	Babb	MT	0	20,585	-
	FE91-100-NG	Noyes	MN	0	120,046	-
	FE91-100-NG	Port of Morgan	MT	16,624	2,746,113	6419.0
Mock Resources Inc.	FE91-100-NG	Sumas	WA	8,831,298	6,662,041	-24.6
Montana Power Co	FE91-01-NG	Eastport	ID	0	2,162,467	-
	FE91-01-NG	Sumas	WA	5,270,693	2,614,480	-50.4
	FE92-139-NG	Babb	MT	1,333,789	423,649	-68.2
	ERA79-16-NG	Port of Del Bonita	MT	157,423	135,427	-14.0
	FE91-39-NG	Whitlash	MT	8,874,892	6,294,734	-29.1

See footnotes at end of table.

**Table FE6. U.S. Natural Gas Imports, 1991-1992 (Continued)**

Heating Content (million Btu)		Average Btu/ Cubic Foot		Revenue (dollars)		Average Price				Volume (barrels)	
						(dollars/thousand cubic feet)		(dollars/million Btu)			
1991	1992	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992
0	845,784	-	1,015	0	2,296,910	-	2.76	-	2.72	-	-
6,944,750	1,227,933	1,007	1,010	9,712,482	1,504,361	1.41	1.29	1.40	1.27	-	-
7,074,688	686,159	1,037	1,034	9,901,311	844,925	1.45	1.27	1.40	1.23	-	-
0	1,844,729	-	1,018	0	2,902,829	-	1.60	-	1.57	-	-
0	1,035,621	-	1,015	0	1,835,317	-	1.80	-	1.77	-	-
0	94,695	-	1,018	0	203,594	-	2.19	-	2.15	-	-
1,322,436	0	1,021	-	1,722,473	0	1.33	-	1.30	-	-	-
221,459	265,491	1,008	1,007	398,627	481,065	1.81	1.83	1.80	1.81	-	-
4,674,272	5,414,711	1,000	1,013	8,879,750	10,217,331	1.90	1.91	1.90	1.89	-	-
311,615	0	1,000	-	467,423	0	1.50	-	1.50	-	-	-
0	609,690	-	999	0	1,472,635	-	2.41	-	2.42	-	-
1,917,956	1,441,580	1,006	1,006	3,398,023	2,692,027	1.78	1.88	1.77	1.87	-	-
353,568	891,258	1,000	1,000	504,752	1,161,581	1.43	1.30	1.43	1.30	-	-
0	165,626	-	1,016	0	378,019	-	2.32	-	2.28	-	-
0	690,068	-	1,000	0	919,933	-	1.33	-	1.33	-	-
0	18,537	-	1,000	0	21,596	-	1.17	-	1.17	-	-
3,645,984	5,622,755	1,000	1,000	3,807,619	6,675,916	1.04	1.19	1.04	1.19	-	-
0	546,600	-	1,000	0	721,788	-	1.32	-	1.32	-	-
0	171,852	-	1,000	0	271,566	-	1.58	-	1.58	-	-
2,098,559	3,288,159	1,007	1,012	5,754,886	7,456,789	2.76	2.30	2.74	2.27	-	-
0	1,590,183	-	1,020	0	2,361,445	-	1.51	-	1.49	-	-
721,534	0	1,011	-	716,889	0	1.00	-	.99	-	-	-
0	4,528	-	1,017	0	11,592	-	2.60	-	2.56	-	-
10,823,882	13,332,881	1,000	1,000	14,325,000	19,001,400	1.32	1.43	1.32	1.43	-	-
11,768,472	36,927,198	1,000	1,000	14,454,000	47,721,150	1.23	1.29	1.23	1.29	-	-
8,702,323	9,774,300	1,006	1,013	23,636,658	27,132,967	2.73	2.81	2.72	2.78	-	-
0	2,101,150	-	1,017	0	5,985,816	-	2.90	-	2.85	-	-
0	321,964	-	1,012	0	480,933	-	1.51	-	1.49	-	-
21,080,328	0	987	-	36,192,860	0	1.69	-	1.72	-	-	-
0	253,060	-	1,025	0	598,228	-	2.42	-	2.36	-	-
102,655	1,567,424	1,025	1,025	163,299	1,844,207	1.63	1.21	1.59	1.18	-	-
65,955	5,866,111	1,022	1,025	117,671	7,836,732	1.82	1.37	1.78	1.34	-	-
358,723	3,409,017	1,025	1,025	487,052	4,704,143	1.39	1.41	1.36	1.38	-	-
1,146,533	760,403	1,015	1,023	1,255,494	978,939	1.11	1.32	1.10	1.29	-	-
15,758,907	15,901,601	1,015	1,029	24,172,354	22,778,192	1.56	1.47	1.53	1.43	-	-
4,395,060	4,269,185	1,005	1,012	10,365,894	10,953,263	2.37	2.60	2.36	2.57	-	-
4,436,962	4,301,864	1,005	1,013	10,590,820	10,125,660	2.40	2.38	2.39	2.35	-	-
446,509	536,513	1,037	1,037	681,182	738,839	1.58	1.43	1.53	1.38	-	-
0	47,376	-	1,031	0	56,851	-	1.24	-	1.20	-	-
0	57,536	-	993	0	82,278	-	1.42	-	1.43	-	-
0	16,479	-	990	0	24,640	-	1.48	-	1.50	-	-
467,599	790,455	1,016	1,019	794,911	1,178,500	1.73	1.52	1.70	1.49	-	-
172,208	3,236,468	1,005	1,006	418,476	8,272,238	2.44	2.57	2.43	2.56	-	-
0	711,562	-	1,016	0	1,956,327	-	2.79	-	2.75	-	-
503,533	4,301,528	1,000	1,000	917,809	8,628,716	1.82	2.01	1.82	2.01	-	-
1,063,018	4,409,115	1,011	1,011	1,209,883	6,961,731	1.15	1.60	1.14	1.58	-	-
5,272,741	4,455,762	1,011	1,069	6,869,704	5,888,649	1.32	1.41	1.30	1.32	-	-
6,280,320	0	1,001	-	7,081,399	0	1.13	-	1.13	-	-	-
0	481,601	-	1,017	0	1,748,978	-	3.69	-	3.63	-	-
0	1,868,303	-	1,010	0	3,864,621	-	2.09	-	2.07	-	-
1,005,625	3,278,804	1,062	1,013	5,248,198	11,292,845	5.54	3.49	5.22	3.44	-	-
2,122,472	7,932,154	986	1,014	11,769,017	17,066,850	5.47	2.18	5.54	2.15	-	-
558,478	0	990	-	1,065,603	0	1.89	-	1.91	-	-	-
19,315,705	27,053,233	1,006	1,013	38,693,773	48,961,529	2.01	1.83	2.00	1.81	-	-
2,842,255	12,708,400	1,010	1,012	5,060,493	28,443,494	1.80	2.27	1.78	2.24	-	-
0	21,226	-	1,031	0	21,438	-	1.04	-	1.01	-	-
0	121,843	-	1,015	0	249,778	-	2.08	-	2.05	-	-
16,952	2,793,180	1,020	1,017	23,283	4,436,868	1.40	1.62	1.37	1.59	-	-
9,201,270	6,858,739	1,042	1,030	12,987,829	8,657,645	1.47	1.30	1.41	1.26	-	-
0	2,229,502	-	1,031	0	3,073,922	-	1.42	-	1.38	-	-
5,328,675	2,643,240	1,011	1,011	5,724,569	3,178,210	1.09	1.22	1.07	1.20	-	-
1,357,646	423,652	1,018	1,000	2,649,147	746,099	1.99	1.76	1.95	1.76	-	-
195,694	167,537	1,243	1,237	266,145	227,848	1.69	1.68	1.36	1.36	-	-
8,738,051	5,391,854	985	857	15,054,955	10,177,433	1.70	1.62	1.72	1.89	-	-

See footnotes at end of table.

**Table FE6. U.S. Natural Gas Imports, 1991-1992 (Continued)**

Importing Companies	Docket Number	Point of Entry		Volume		
		City	State	(thousand cubic feet)		Percent Change
				1991	1992	
<b>Pipeline Imports From Canada</b>						
Nat Gas Clearinghouse	FE91-50-NG	Eastport	ID	0	628,734	-
	FE91-50-NG	Noyes	MN	2,115,123	0	-
	FE91-50-NG	Sumas	WA	13,461,558	6,143,611	-54.4
Natural Gas P L Co America	FE91-91-NG	Noyes	MN	42,734,244	52,326,477	22.4
	ERA79-15-NG	Port of Morgan	MT	16,485,244	21,032,065	27.6
Niagara Mohawk Power Corp	FE89-33-NG	Waddington	NY	0	13,783,029	-
Nortech Energy Corp	FE90-30-NG et al.	Noyes	MN	187,293	0	-
	FE90-30-NG	Port of Morgan	MT	99,800	0	-
North American Resources Co	FE91-21-NG	Babb	MT	503,127	3,525,241	600.7
North Canadian Marketing Corp	FE90-37-NG	Eastport	ID	0	2,328,114	-
	FE90-37-NG	Niagara Falls	NY	1,227,091	1,807,018	47.3
	FE90-37-NG	Noyes	MN	643,089	4,607,163	616.4
	FE90-37-NG	Piegan	MT	0	56,146	-
	FE90-37-NG	Port of Morgan	MT	4,357,202	16,500,228	278.7
North Canadian Res Inc	FE90-37-NG	Noyes	MN	6,946,098	0	-
	FE90-36-NG	Port of Morgan	MT	14,340,057	0	-
North Jersey Energy Associates	FE89-26-NG	Niagara Falls	NY	1,230,400	8,168,970	563.9
Northeast Energy Associates	FE89-26-NG	Niagara Falls	NY	2,131,745	16,002,899	650.7
Northern Minnesota Util Inc.	FE90-59-NG et al.	Noyes	MN	5,325,271	4,394,058	-17.5
	FE90-16-NG et al.	Warroad	MN	7,196,226	7,275,659	1.1
Northern Nat Gas Co	ERA82-11-NG et al.	Noyes	MN	23,634,584	21,736,593	-8.0
	ERA80-11-NG	Port of Morgan	MT	39,575,704	31,129,087	-21.3
Northern States Power Co.(Wi)	FE91-69-NG et al.	Noyes	MN	0	1,771,229	-
Northridge Petro Marketing US	FE91-61-NG	Babb	MT	174,722	1,086,516	521.9
	FE91-61-NG et al.	Noyes	MN	5,709,219	5,605,342	-1.8
Northwest Alaskan P L Co	ERA84-15-NG	Eastport	ID	78,571,654	82,024,385	4.4
	ERA84-14-NG	Port of Morgan	MT	256,573,220	254,987,560	-6
Northwest Nat Gas Co	FE90-02-NG	Sumas	WA	27,489,919	25,577,749	-7.0
Northwest P L Corp	FE89-60-NG	Eastport	ID	11,477,760	10,628,562	-7.4
Ocean State Pwr	FE90-78-NG et al.	Niagara Falls	NY	19,821,654	36,900,922	86.2
Orchard Gas Corporation	FE91-87-NG	Waddington	NY	0	1,524,761	-
Oregon Natural Gas	FE92-19-NG	Eastport	ID	0	4,931,506	-
Pacific Gas Trans Co	ERA80-07-NG	Eastport	ID	337,928,768	308,991,000	-8.6
Pan-Alberta Gas (U.S)Inc.	FE91-26-NG	Babb	MT	0	53,202	-
	FE91-26-NG	Eastport	ID	0	19,215,434	-
	ERA88-57-NG	Eastport	ID	898,326	0	-
	ERA88-57-NG	Niagara Falls	NY	508,973	0	-
	FE91-26-NG	Niagara Falls	NY	0	1,473,106	-
	FE91-26-NG	Port of Morgan	MT	0	29,045,818	-
	ERA88-57-NG et al.	Port of Morgan	MT	12,959,173	0	-
		Sumas	WA	4,533,386	0	-
	FE91-26-NG	Sumas	WA	0	8,608,523	-
Pawtucket Power Associates	FE89-76-NG	Waddington	NY	0	728,118	-
Peoples Nat Gas Co Div	FE92-133-NG	Noyes	MN	918,801	1,095,835	19.3
Pepperell Pwr Assoc,L.P.	FE92-112-NG	Niagara Falls	NY	0	552,408	-
Petro Canada Hydrocarbons Inc	FE90-71-NG	Sumas	WA	12,685,872	9,927,594	-21.7
Poco Petro Inc	FE91-80-NG	Eastport	ID	16,699,741	11,665,658	-30.1
	FE91-80-NG	Noyes	MN	1,431,584	163,679	-88.6
	FE89-72-NG	Port of Morgan	MT	2,335	0	-
	FE91-80-NG	Sumas	WA	20,190,591	21,704,646	7.5
Portland Gen Electric Corp	FE91-15-NG	Eastport	ID	0	781,345	-
	ERA88-26-NG	Sumas	WA	49,943	0	-
Power City Partners,L.P.	FE90-33-NG	Massena	NY	0	676,482	-
Progas USA Inc	C189-223-001 et al.	Niagara Falls	NY	2,771,187	665,170	-76.0
	C189-223-001 et al.	Noyes	MN	10,931,385	13,861,958	26.8
	C189-223-001	Port of Morgan	MT	2,178,698	2,016,420	-7.4
	C189-223-001	Waddington	NY	0	109,391	-
Project Orange Associates L.P.	ERA88-01-NG	Niagara Falls	NY	0	3,298,532	-
Redwood Resources Inc.	FE92-105-NG	Eastport	ID	0	106,523	-
Renaissance Energy US Inc	ERA88-51-NG	Babb	MT	18,971	0	-
	ERA88-51-NG	Noyes	MN	74,910	0	-
Salmon Resources Ltd	FE89-71-NG et al.	Babb	MT	149,319	138,472	-7.3
	FE91-81-NG	Eastport	ID	231,603	53,077	-77.1
	FE89-71-NG et al.	Niagara Falls	NY	1,310,263	5,058,986	286.1

See footnotes at end of table.

**Table FE6. U.S. Natural Gas Imports, 1991-1992 (Continued)**

Heating Content (million Btu)		Average Btu/ Cubic Foot		Revenue (dollars)		Average Price				Volume (barrels)	
1991	1992	1991	1992	1991	1992	(dollars/thousand cubic feet)		(dollars/million Btu)		1991	1992
						1991	1992	1991	1992		
0	628,734	-	1,000	0	720,026	-	1.15	-	1.15	-	-
2,115,123	0	1,000	-	2,509,607	0	1.19	-	1.19	-	-	-
13,461,558	6,143,611	1,000	1,000	16,757,602	6,977,498	1.24	1.14	1.24	1.14	-	-
43,029,592	52,992,081	1,007	1,013	71,873,356	111,888,158	1.68	2.14	1.67	2.11	-	-
16,794,534	21,141,955	1,019	1,005	29,348,279	37,065,484	1.78	1.76	1.75	1.75	-	-
0	13,930,191	-	1,011	0	33,202,523	-	2.41	-	2.38	-	-
187,691	0	1,002	-	202,797	0	1.08	-	1.08	-	-	-
101,280	0	1,015	-	103,306	0	1.04	-	1.02	-	-	-
507,129	3,631,461	1,008	1,030	513,190	3,389,447	1.02	.96	1.01	.93	-	-
0	2,377,000	-	1,021	0	3,494,191	-	1.50	-	1.47	-	-
1,247,543	1,825,689	1,017	1,010	2,104,899	3,310,348	1.72	1.83	1.69	1.81	-	-
653,808	4,618,741	1,017	1,003	958,363	6,786,830	1.49	1.47	1.47	1.47	-	-
0	56,992	-	1,015	0	67,845	-	1.21	-	1.19	-	-
4,429,822	16,889,566	1,017	1,024	6,115,685	19,169,198	1.40	1.16	1.38	1.13	-	-
7,061,865	0	1,017	-	14,210,777	0	2.05	-	2.01	-	-	-
14,579,056	0	1,017	-	15,392,699	0	1.07	-	1.06	-	-	-
1,240,646	8,272,836	1,008	1,013	3,118,878	18,017,918	2.53	2.21	2.51	2.18	-	-
2,147,851	16,212,741	1,008	1,013	6,011,875	45,919,645	2.82	2.87	2.80	2.83	-	-
5,356,302	4,450,335	1,006	1,013	9,556,933	8,917,990	1.79	2.03	1.78	2.00	-	-
7,239,232	7,366,883	1,006	1,013	16,147,083	16,276,313	2.24	2.24	2.23	2.21	-	-
23,759,726	22,003,524	1,005	1,012	32,043,128	31,795,987	1.36	1.46	1.35	1.45	-	-
40,210,776	31,787,219	1,016	1,021	50,170,751	46,834,937	1.27	1.50	1.25	1.47	-	-
0	1,771,229	-	1,000	0	3,888,435	-	2.20	-	2.20	-	-
177,265	1,110,634	1,015	1,022	180,036	1,194,363	1.03	1.10	1.02	1.08	-	-
5,729,818	5,676,615	1,004	1,013	11,477,328	10,186,378	2.01	1.82	2.00	1.79	-	-
78,509,308	83,570,078	999	1,019	171,748,832	162,998,383	2.19	1.99	2.19	1.95	-	-
261,294,433	260,716,566	1,018	1,022	358,974,071	420,083,441	1.40	1.65	1.37	1.61	-	-
27,792,310	25,859,106	1,011	1,011	52,516,012	52,238,420	1.91	2.04	1.89	2.02	-	-
11,720,658	10,467,157	1,021	985	29,078,223	24,908,397	2.53	2.34	2.48	2.38	-	-
19,611,750	36,683,091	989	994	45,097,020	72,053,953	2.28	1.95	2.30	1.96	-	-
0	1,520,091	-	997	0	4,020,338	-	2.64	-	2.64	-	-
0	5,026,947	-	1,019	0	6,837,840	-	1.39	-	1.36	-	-
343,101,685	315,551,736	1,015	1,021	705,805,594	587,573,571	2.09	1.90	2.06	1.86	-	-
0	53,468	-	1,005	0	44,913	-	.84	-	.84	-	-
0	19,582,918	-	1,019	0	22,549,552	-	1.17	-	1.15	-	-
912,374	0	1,016	-	1,151,134	0	1.28	-	1.26	-	-	-
511,500	0	1,005	-	1,040,639	0	2.04	-	2.03	-	-	-
0	1,495,202	-	1,015	0	2,464,659	-	1.67	-	1.65	-	-
0	29,617,688	-	1,020	0	31,434,990	-	1.08	-	1.06	-	-
13,211,990	0	1,020	-	15,174,760	0	1.17	-	1.15	-	-	-
4,704,485	0	1,038	-	6,254,345	0	1.38	-	1.33	-	-	-
0	8,769,043	-	1,019	0	12,067,798	-	1.40	-	1.38	-	-
0	739,241	-	1,015	0	2,042,542	-	2.81	-	2.76	-	-
924,171	1,110,781	1,006	1,014	2,407,714	2,820,150	2.62	2.57	2.61	2.54	-	-
0	561,526	-	1,017	0	983,890	-	1.78	-	1.75	-	-
13,133,694	10,278,044	1,035	1,035	18,687,372	13,329,928	1.47	1.34	1.42	1.30	-	-
16,817,101	11,825,947	1,007	1,014	25,085,947	17,445,894	1.50	1.50	1.49	1.48	-	-
1,439,003	164,200	1,005	1,003	1,986,491	185,788	1.39	1.14	1.38	1.13	-	-
2,400	0	1,028	-	4,200	0	1.80	-	1.75	-	-	-
20,824,409	22,586,036	1,031	1,041	35,423,603	37,916,215	1.75	1.75	1.70	1.68	-	-
0	789,940	-	1,011	0	1,421,892	-	1.82	-	1.80	-	-
52,869	0	1,059	-	60,271	0	1.21	-	1.14	-	-	-
0	688,380	-	1,018	0	2,674,477	-	3.95	-	3.89	-	-
2,854,523	675,829	1,030	1,016	4,948,775	1,532,487	1.79	2.30	1.73	2.27	-	-
10,972,645	14,040,888	1,004	1,013	17,103,242	23,033,568	1.56	1.66	1.56	1.64	-	-
2,218,020	2,038,365	1,018	1,011	3,308,256	3,901,831	1.52	1.94	1.49	1.91	-	-
0	110,581	-	1,011	0	182,944	-	1.67	-	1.65	-	-
0	3,345,054	-	1,014	0	5,604,289	-	1.70	-	1.68	-	-
0	109,186	-	1,025	0	185,613	-	1.74	-	1.70	-	-
18,971	0	1,000	-	18,592	0	.98	-	.98	-	-	-
74,910	0	1,000	-	116,860	0	1.56	-	1.56	-	-	-
151,417	141,305	1,014	1,020	149,903	152,624	1.00	1.10	.99	1.08	-	-
234,000	54,067	1,010	1,019	236,448	83,804	1.02	1.58	1.01	1.55	-	-
1,320,729	5,123,322	1,008	1,013	3,152,281	11,666,871	2.41	2.31	2.39	2.28	-	-

See footnotes at end of table.

**Table FE6. U.S. Natural Gas Imports, 1991-1992 (Continued)**

Importing Companies	Docket Number	Point of Entry		Volume		
		City	State	(thousand cubic feet)		Percent Change
				1991	1992	
<b>Pipeline Imports From Canada</b>						
	FE91-81-NG	Noyes	MN	2,259,265	63,972	-97.2
	FE91-81-NG et al.	Port of Morgan	MT	2,938,017	10,769,828	266.6
	FE89-71-NG et al.	Sumas	WA	9,393,309	2,364,577	-74.8
Santanna Natural Gas Corp	FE90-72-NG et al.	Niagara Falls	NY	2,267,552	409,793	-81.9
	FE90-72-NG	Noyes	MN	0	381,754	-
	FE90-72-NG	Waddington	NY	0	2,981,930	-
Selkirk Cogen Partners L P	FE89-55-NG	Waddington	NY	0	1,425,320	-
Semco Energy Services Inc	ERA87-33-NG	Noyes	MN	3,488	0	-
Sierra Pacific Power Company	FE89-67-NG	Eastport	ID	380,244	0	-
	FE89-67-NG	Sumas	WA	8,211,598	10,788,492	31.4
Southeastern Michigan Gas Co	FE88-52-NG	Noyes	MN	968,115	5,866,471	506.0
Spot Market Corp	FE91-07-NG et al.	Eastport	ID	3,997,987	340,567	-91.5
St Lawrence Gas Co Inc	ERA80-11-NG	Massena	NY	7,795,339	7,987,140	2.5
Suncor Inc	FE89-52-NG	Eastport	ID	52,500	0	-
	FE91-76-NG	Port of Morgan	MT	11,266,800	20,185,600	79.2
	FE89-52-NG	Sumas	WA	936,400	0	-
Tempon Gas Marketing Ltd	ERA88-32-NG et al.	Noyes	MN	1,392,208	379,868	-72.7
Tenaska Marketing Ventures	FE91-77-NG	Port of Morgan	MT	0	459	-
Tennessee Gas P L Co	ERA87-53-NG et al.	Niagara Falls	NY	16,425,000	13,415,850	-18.3
Tennegasco Corp	ERA86-06-NG et al.	Noyes	MN	7,076,306	26,932,277	280.6
	FE91-78-NG et al.	Niagara Falls	NY	9,617,170	4,388,832	-54.4
	FE91-78-NG	Noyes	MN	661,681	139,103	-79.0
Tennegasco Exchange Corp	ERA84-19-NG	Niagara Falls	NY	200,507	0	-
Texas Eastern Trans Corp	FE89-26-NG	Niagara Falls	NY	356,143	3,799,654	966.9
	ERA87-37-NG	Noyes	MN	9,262,715	10,209,542	10.2
Texas-OHIO Gas, Inc.	FE92-46-NG et al.	Eastport	ID	0	1,917,067	-
Texpar Energy Inc	FE90-66-NG	Noyes	MN	1,167,896	1,363,359	16.7
Transco Energy Marketing Co	FE89-45-NG et al.	Niagara Falls	NY	30,286,561	50,446,344	66.6
TXG Gas Marketing Co	FE90-10-NG	Noyes	MN	172,025	0	-
Unigas Energy Inc	FE90-107-NG	Babb	MT	411,494	0	-
	FE90-107-NG	Detroit River	MI	0	2,224,872	-
	FE90-107-NG	Massena	NY	0	53,272	-
	FE90-107-NG et al.	Noyes	MN	1,844,522	1,427,594	-22.6
	FE90-107-NG	Piegan	MT	0	1,983,653	-
	FE90-107-NG	Port of Morgan	MT	1,730,580	1,778,097	2.7
	FE90-107-NG	St Clair River	MI	0	463,551	-
	FE90-107-NG	Sumas	WA	0	2,271,852	-
Universal Resources Corp.	FE92-23-NG	Sumas	WA	0	677,594	-
Vector Energy (USA) Inc	ERA87-29-NG	Niagara Falls	NY	11,350,593	11,375,817	.2
Vermont Gas Sys Inc	FE91-54-NG	Highgate	VT	7,145,066	7,595,338	6.3
Victoria Gas Corp	FE90-29-NG	Niagara Falls	NY	0	2,600,627	-
Viking Gas Transmission Co	FE90-29-NG	Waddington	NY	0	1,152,123	-
	ERA86-06-NG	Niagara Falls	NY	0	1,980	-
	FE89-25-NG	Noyes	MN	8,545,007	14,228,908	66.5
Washington Natural Gas Co	FE91-91-NG et al.	Sumas	WA	15,342,072	12,285,171	-19.9
Wes Cana Energy Mktg (US) Inc	ERA86-34-NG et al.	Niagara Falls	NY	15,243,080	30,634,731	101.0
	ERA-34-NG et al.	Piegan	MT	0	832,382	-
Westar Marketing Company	FE92-1101-NG et al.	Port of Morgan	MT	0	1,487,678	-
	ERA86-34-NG	Waddington	NY	0	1,946,242	-
	FE91-48-NG	Eastport	ID	1,680,128	0	-
Western Gas Marketing Ltd	FE91-48-NG et al.	Sumas	WA	9,125,589	3,557,488	-61.0
	FE90-55-NG	Babb	MT	298,703	1,522,630	409.7
	FE90-55-NG	Detroit River	MI	0	1,345,338	-
	FE90-55-NG	Eastport	ID	941,769	196,404	-79.1
	FE90-55-NG	Niagara Falls	NY	12,704,697	6,980,217	-45.1
	FE90-55-NG	Noyes	MN	93,787,233	34,437,212	-63.3
	FE90-55-NG	Port of Morgan	MT	13,375,304	42,761,176	219.7
	FE90-55-NG et al.	St Clair River	MI	0	32,911,462	-
	FE90-55-NG	Sumas	WA	12,595	0	-
Western Gas Processors	FE90-55-NG	Waddington	NY	2,258,799	13,220,803	485.3
	FE89-61-NG et al.	Babb	MT	1,229,491	1,158,338	-5.8
Williams Gas Marketing Co	FE89-61-NG	Sumas	WA	717,046	0	-
	FE92-29-NG et al.	Eastport	ID	915,455	1,675,176	83.0
	FE90-22-NG et al.	Niagara Falls	NY	61,700	0	-

See footnotes at end of table.

**Table FE6. U.S. Natural Gas Imports, 1991-1992 (Continued)**

Heating Content (million Btu)		Average Btu/ Cubic Foot		Revenue (dollars)		Average Price				Volume (barrels)	
						(dollars/thousand cubic feet)		(dollars/million Btu)			
1991	1992	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992
2,273,539	64,971	1,006	1,016	2,429,982	99,451	1.08	1.55	1.07	1.53	-	-
2,998,468	11,000,001	1,021	1,021	4,418,295	15,664,198	1.50	1.45	1.47	1.42	-	-
9,715,784	2,450,413	1,034	1,036	12,137,597	2,902,561	1.29	1.23	1.25	1.18	-	-
2,278,140	414,713	1,005	1,012	3,804,918	813,141	1.68	1.98	1.67	1.96	-	-
0	383,891	-	1,006	0	442,362	-	1.16	-	1.15	-	-
0	3,035,108	-	1,018	0	6,779,838	-	2.27	-	2.23	-	-
0	1,420,922	-	997	0	3,790,363	-	2.66	-	2.67	-	-
3,505	0	1,005	-	4,206	0	1.21	-	1.20	-	-	-
386,238	0	1,016	-	441,505	0	1.16	-	1.14	-	-	-
8,364,313	10,907,163	1,019	1,011	10,445,103	15,956,443	1.27	1.48	1.25	1.46	-	-
962,264	5,839,147	994	995	2,027,190	11,567,657	2.09	1.97	2.11	1.98	-	-
3,999,157	345,677	1,000	1,015	4,419,583	352,112	1.11	1.03	1.11	1.02	-	-
7,707,194	7,946,264	989	995	22,961,204	22,916,762	2.95	2.87	2.98	2.88	-	-
52,395	0	998	-	62,350	0	1.19	-	1.19	-	-	-
11,244,266	20,145,229	998	998	14,857,573	25,698,906	1.32	1.27	1.32	1.28	-	-
934,527	0	998	-	1,129,647	0	1.21	-	1.21	-	-	-
1,399,888	379,800	1,006	1,000	1,782,880	472,628	1.28	1.24	1.27	1.24	-	-
0	468	-	1,020	0	1,771	-	3.86	-	3.78	-	-
16,235,100	13,354,523	988	995	95,449,340	85,936,933	5.81	6.41	5.88	6.44	-	-
7,086,219	27,265,666	1,001	1,012	8,874,740	33,424,980	1.25	1.24	1.25	1.23	-	-
9,666,197	4,434,252	1,005	1,010	15,122,708	7,822,202	1.57	1.78	1.56	1.76	-	-
664,107	134,741	1,004	969	813,070	146,023	1.23	1.05	1.22	1.08	-	-
201,104	0	1,003	-	406,230	0	2.03	-	2.02	-	-	-
353,650	3,758,946	993	989	2,565,475	14,036,463	7.20	3.69	7.25	3.73	-	-
9,158,730	10,188,294	989	998	26,140,979	27,871,709	2.82	2.73	2.85	2.74	-	-
0	1,965,249	-	1,025	0	3,089,533	-	1.61	-	1.57	-	-
1,202,933	1,376,157	1,030	1,009	1,488,102	2,118,879	1.27	1.55	1.24	1.54	-	-
30,474,143	40,951,219	1,006	812	66,576,955	93,819,480	2.20	1.86	2.18	2.29	-	-
173,059	0	1,006	-	193,761	0	1.13	-	1.12	-	-	-
411,494	0	1,000	-	432,068	0	1.05	-	1.05	-	-	-
0	2,224,872	-	1,000	0	3,582,693	-	1.61	-	1.61	-	-
0	53,272	-	1,000	0	91,217	-	1.71	-	1.71	-	-
1,844,522	1,427,594	1,000	1,000	2,198,890	2,120,069	1.19	1.49	1.19	1.49	-	-
0	1,983,653	-	1,000	0	1,995,251	-	1.01	-	1.01	-	-
1,730,580	1,778,097	1,000	1,000	1,868,992	2,492,697	1.08	1.40	1.08	1.40	-	-
0	463,551	-	1,000	0	1,240,676	-	2.63	-	2.68	-	-
0	2,271,852	-	1,000	0	2,609,987	-	1.15	-	1.15	-	-
0	701,097	-	1,035	0	1,172,508	-	1.3	-	1.67	-	-
11,416,128	11,527,807	1,006	1,013	28,745,255	28,127,545	2.53	2.47	2.52	2.44	-	-
7,064,578	7,555,833	989	995	20,512,859	22,228,185	2.87	2.93	2.90	2.94	-	-
0	2,641,187	-	1,016	0	4,480,651	-	.72	-	1.70	-	-
0	1,160,301	-	1,007	0	1,977,994	-	.72	-	1.70	-	-
0	2,000	-	1,010	0	2,200	-	1.11	-	1.10	-	-
8,452,145	14,183,825	989	997	51,894,515	44,301,062	6.07	3.11	6.14	3.12	-	-
15,881,877	12,668,778	1,035	1,033	28,336,312	24,666,731	1.85	2.01	1.78	1.94	-	-
15,743,481	31,177,005	1,033	1,018	29,732,823	58,422,880	1.95	1.91	1.89	1.87	-	-
0	864,322	-	1,038	0	678,313	-	.81	-	.78	-	-
0	1,513,654	-	1,017	0	2,746,549	-	1.85	-	1.81	-	-
0	1,964,482	-	1,009	0	2,898,261	-	1.49	-	1.48	-	-
1,717,090	0	1,022	-	2,006,536	0	1.19	-	1.17	-	-	-
9,457,303	3,688,539	1,036	1,037	12,097,832	4,761,687	1.33	1.34	1.28	1.29	-	-
309,864	1,549,920	1,037	1,018	297,469	1,890,158	1.00	1.24	.96	1.22	-	-
0	1,345,742	-	1,000	0	1,805,196	-	1.34	-	1.34	-	-
956,231	199,469	1,015	1,016	1,075,842	247,513	1.14	1.26	1.13	1.24	-	-
12,777,845	7,064,826	1,006	1,012	19,759,791	13,363,276	1.56	1.91	1.55	1.89	-	-
94,298,868	34,878,683	1,005	1,013	130,114,010	48,892,152	1.39	1.42	1.38	1.40	-	-
13,686,851	43,773,744	1,023	1,024	18,331,539	57,584,226	1.37	1.35	1.34	1.32	-	-
0	33,231,170	-	1,010	0	51,448,682	-	1.56	-	1.55	-	-
13,149	0	1,044	-	23,405	0	1.86	-	1.78	-	-	-
2,270,090	13,334,203	1,005	1,009	5,145,452	22,567,397	2.28	1.71	2.27	1.69	-	-
1,254,973	1,183,060	1,021	1,021	1,273,483	1,116,633	1.04	.96	1.01	.94	-	-
745,128	0	1,039	-	787,594	0	1.10	-	1.06	-	-	-
915,455	1,675,176	1,000	1,000	1,102,977	2,131,566	1.20	1.27	1.20	1.27	-	-
61,700	0	1,000	-	115,586	0	1.87	-	1.87	-	-	-

See footnotes at end of table.

**Table FE6. U.S. Natural Gas Imports, 1991-1992 (Continued)**

Importing Companies	Docket Number	Point of Entry		Volume			Percent Change	
		City	State	(thousand cubic feet)				
				1991	1992			
<b>Pipeline Imports From Canada</b>								
Windward Energy &Mktg Co	FE92-29-NG	Piegan	MT	0	74,277	-		
Wisconsin Power and Light Co	FE92-29-NG et al.	Sumas	WA	3,581,969	3,206,365	-10.5		
Wisconsin Public Service Corp	ERA87-52-NG et al.	Eastport	ID	0	961,991	-		
	FE92-121-NG et al.	Noyes	MN	2,868,573	2,949,729	2.8		
	FE89-10-NG	Noyes	MN	3,681,063	2,908,374	-21.0		
Total Canada (excluding exchange)				1,707,823,320	2,093,879,542	22.6		
Michigan Consol Gas Co (exchange) <sup>d</sup>	FE91-88-NG	Noyes	MN	1,893,120	507,644	-73.2		
Total Canada (including exchange)				1,709,716,440	2,094,387,286	22.5		
Total Pipeline Imports				1,709,716,440	2,094,387,286	22.5		
<b>Liquefied Natural Gas (LNG) Imports From Algeria</b>								
Distrigas Corp	ERA88-37-LNG	Everett	MA	30,312,222	30,479,229	.6		
Pan Natl Gas Sales Inc	FE89-77-LNG	Lake Charles	LA	33,284,012	12,637,191	-62.0		
Total LNG Imports				63,596,234	43,116,420	-32.2		
Grand Total				1,773,312,674	2,137,503,706	20.5		

<sup>a</sup> Includes "take-or-pay" deficiency payments and adjustments for prior overpayments.

<sup>b</sup> In addition, 471,010,130 thousand cubic feet were received from TransCanada Pipelines Ltd. for transportation, all of which was delivered to TransCanada at St. Clair and Sault Ste. Marie, Michigan.

<sup>c</sup> Northern Natural Gas Co. delivered 14,554,398 thousand cubic feet of gas to Consolidated Natural Gas Co. - Willow Creek, Saskatchewan, for transportation and received 14,554,398 thousand cubic feet of gas at Noyes, Minnesota.

**Table FE6. U.S. Natural Gas Imports, 1991-1992 (Continued)**

	Heating Content (million Btu)		Average Btu/ Cubic Foot		Revenue (dollars)		Average Price				Volume (barrels)	
	1991	1992	1991	1992	1991	1992	(dollars/thousand cubic feet)		(dollars/million Btu)		1991	1992
							1991	1992	1991	1992		
0	74,277	-	1,000	0	64,235	-	0.86	-	0.86	-	-	-
3,581,969	3,206,365	1,000	1,000	4,466,026	3,322,772	1.25	1.04	1.25	1.04	-	-	-
0	982,130	-	1,021	0	1,501,445	-	1.56	-	1.53	-	-	-
2,863,573	2,985,816	1,000	1,012	4,236,576	4,866,902	1.48	1.65	1.48	1.63	-	-	-
3,702,281	2,945,165	1,006	1,013	6,666,425	6,078,194	1.81	2.09	1.80	2.06	-	-	-
1,727,376,311	2,113,532,944	1,011	1,009	3,085,398,597	3,849,812,462	1.81	1.84	1.79	1.82	-	-	-
1,891,274	514,392	999	1,013	0	0	-	-	-	-	-	-	-
1,729,267,585	2,114,047,336	1,011	1,009	3,085,398,597	3,849,812,462	1.81	1.84	1.79	1.82	-	-	-
1,729,267,585	2,114,047,336	1,011	1,009	3,085,398,597	3,849,812,462	1.81	1.84	1.79	1.82	-	-	-
33,051,182	33,380,163	1,090	1,095	93,433,125	87,781,910	3.08	2.88	2.83	2.63	8,927,145	8,988,416	
36,648,299	14,020,727	1,101	1,109	56,561,279	21,813,977	1.70	1.73	1.54	1.56	9,561,498	3,630,286	
69,699,481	47,400,890	1,096	1,099	149,994,404	109,595,887	2.36	2.54	2.15	2.31	18,488,643	12,618,702	
1,798,967,066	2,161,448,226	1,014	1,011	3,235,393,001	3,959,408,349	1.83	1.85	1.80	1.83	-	-	-

<sup>a</sup> During 1992, Michigan Consolidated Gas Co. imported, on an equivalent Btu basis, 507,644 thousand cubic feet of natural gas from Canada as part of an energy exchange for ethane exported to Canada. There was no cost reported. This exchange volume is excluded in calculating the average prices but included in the total volume imported.

- = Not applicable.

Note: Geographic coverage is the continental United States including Alaska.

Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

**Table FE7. Summary of U.S. Natural Gas Imports, 1977-1992**  
 (Volume in Million Cubic Feet; Average Price in Dollars per Thousand  
 Cubic Feet)

Year and Month	Pipeline				Total Pipeline	
	Canada		Mexico		Volume	Average Price
	Volume	Average Price	Volume	Average Price		
<b>1977 Total</b>	996,722	1.99	2,384	2.25	999,106	1.99
<b>1978 Total</b>	881,123	2.19	0	-	881,123	2.19
<b>1979 Total</b>	1,000,775	2.61	0	-	1,000,775	2.61
<b>1980 Total</b>	796,507	4.32	102,410	4.41	898,917	4.33
<b>1981 Total</b>	762,107	4.83	105,013	5.01	867,120	4.85
<b>1982 Total</b>	783,407	4.97	94,794	5.02	878,200	4.98
<b>1983 Total</b>	711,923	4.49	75,361	4.70	787,284	4.51
<b>1984 Total</b>	755,368	4.01	51,502	4.49	806,870	4.04
<b>1985 Total</b>	926,056	3.17	0	-	926,056	3.17
<b>1986 Total</b>	748,780	2.42	0	-	748,780	2.42
<b>1987 Total</b>	992,532	1.95	0	-	992,532	1.95
<b>1988 Total</b>	1,276,322	1.83	0	-	1,276,322	1.83
<b>1989 Total</b>	1,339,357	1.81	0	-	1,339,357	1.81
<b>1990 Total</b>	1,448,065	1.91	0	-	1,448,065	1.91
<b>1991</b>						
January	155,805	2.06	0	-	155,805	2.06
February	132,962	1.89	0	-	132,962	1.89
March	146,383	1.83	0	-	146,383	1.83
April	138,833	1.79	0	-	138,833	1.78
May	136,202	1.74	0	-	136,202	1.74
June	130,701	1.72	0	-	130,701	1.72
July	129,768	1.67	0	-	129,768	1.67
August	127,139	1.60	0	-	127,139	1.59
September	131,345	1.67	0	-	131,345	1.67
October	146,489	1.76	0	-	146,489	1.75
November	163,605	1.89	0	-	163,605	1.89
December	170,485	1.94	0	-	170,485	1.94
<b>Total</b>	1,709,716	1.81	0	-	1,709,716	1.81
<b>1992</b>						
January	157,026	1.95	0	-	157,026	1.95
February	170,167	1.64	0	-	170,167	1.64
March	177,978	1.63	0	-	177,978	1.63
April	173,615	1.62	0	-	173,615	1.62
May	174,312	1.66	0	-	174,312	1.66
June	159,743	1.77	0	-	159,743	1.77
July	167,216	1.70	0	-	167,216	1.70
August	172,240	1.81	0	-	172,240	1.80
September	163,584	1.96	0	-	163,584	1.96
October	173,904	2.21	0	-	173,904	2.21
November	202,846	1.94	0	-	202,846	1.94
December	201,756	2.13	0	-	201,756	2.13
<b>Total</b>	* 2,094,387	1.84	0	-	* 2,094,387	1.84

See footnotes at end of table.

**Table FE7. Summary of U.S. Natural Gas Imports, 1977-1992 (Continued)**  
 (Volume in Million Cubic Feet; Average Price in Dollars per Thousand  
 Cubic Feet)

Year and Month	LNG						Grand Total	
	Algeria		Canada		Indonesia		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price		
<b>1977 Total</b>	11,324	0.92	572	3.96	0	-	1,011,002	1.98
<b>1978 Total</b>	84,422	1.53	0	-	0	-	965,545	2.13
<b>1979 Total</b>	252,608	2.03	0	-	0	-	1,253,383	2.49
<b>1980 Total</b>	85,850	3.77	0	-	0	-	984,767	4.28
<b>1981 Total</b>	36,824	5.54	6	6.63	0	-	903,949	4.88
<b>1982 Total</b>	55,136	5.82	0	-	0	-	933,336	5.03
<b>1983 Total</b>	131,124	6.41	0	-	0	-	918,407	4.78
<b>1984 Total</b>	36,191	4.90	0	-	0	-	843,060	4.08
<b>1985 Total</b>	23,659	4.60	0	-	0	-	949,715	3.21
<b>1986 Total</b>	0	-	0	-	1,669	4.62	750,449	2.43
<b>1987 Total</b>	0	-	0	-	0	-	992,532	1.95
<b>1988 Total</b>	17,490	2.71	0	-	0	-	1,293,812	1.84
<b>1989 Total</b>	42,163	2.22	0	-	0	-	1,381,520	1.82
<b>1990 Total</b>	84,193	2.47	0	-	0	-	1,532,259	1.94
<b>1991</b>								
January	7,643	2.94	0	-	0	-	163,448	2.11
February	5,035	2.49	0	-	0	-	137,998	1.92
March	5,105	2.91	0	-	0	-	151,487	1.86
April	5,122	1.93	0	-	0	-	143,955	1.79
May	5,091	1.66	0	-	0	-	141,292	1.74
June	2,562	1.68	0	-	0	-	133,264	1.72
July	5,091	1.86	0	-	0	-	134,859	1.68
August	0	.00	0	-	0	-	127,139	1.60
September	2,589	1.66	0	-	0	-	133,934	1.67
October	10,146	2.41	0	-	0	-	156,635	1.80
November	5,113	2.48	0	-	0	-	168,718	1.91
December	10,099	2.63	0	-	0	-	180,585	1.98
<b>Total</b>	63,596	2.36	0	-	0	-	1,773,313	1.83
<b>1992</b>								
January	7,610	2.49	0	-	0	-	164,636	1.98
February	5,076	2.91	0	-	0	-	175,243	1.68
March	2,503	3.32	0	-	0	-	180,482	1.65
April	2,531	2.12	0	-	0	-	176,146	1.63
May	0	.00	0	-	0	-	174,312	1.66
June	2,505	2.09	0	-	0	-	162,249	1.77
July	0	.00	0	-	0	-	167,216	1.70
August	2,492	3.15	0	-	0	-	174,733	1.83
September	2,533	1.83	0	-	0	-	166,117	1.96
October	2,563	3.19	0	-	0	-	176,466	2.22
November	7,633	2.57	0	-	0	-	210,479	1.96
December	7,670	2.17	0	-	0	-	209,426	2.13
<b>Total</b>	43,116	2.54	0	-	0	-	2,137,504	1.85

\* During 1992, Michigan Consolidated Gas Co. imported, on an equivalent Btu basis, 507,644 thousand cubic feet of natural gas from Canada as part of an energy exchange for ethane exported to Canada. There was no cost reported. This exchange volume is excluded in calculating the average prices, but included in the total volume imported.

- = Not Applicable.

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

Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

**Table FE8. U.S. Natural Gas Exports, 1991-1992**

Exporting Companies	Docket Number	Point of Exit		Volume		Percent Change	
		City	State	(thousand cubic feet)			
				1991	1992		
<b>Pipeline Exports to Canada</b>							
Brymore Energy Inc	FE89-20-NG et al.	Detroit River	MI	0	388,883	-	
	FE89-20-NG et al.	St Clair River	MI	0	246,468	-	
	FE89-20-NG	St Clair River	MI	113,061	0	-	
Coenergy Ventures Inc	FE90-113-NG et al.	St Clair River	MI	0	4,088,485	-	
	FE90-113-NG	St Clair River	MI	270,753	0	-	
Consumers Gas Co Ltd The	FE90-111-NG	Detroit River	MI	1,645,586	0	-	
	FE90-111-NG et al.	St Clair River	MI	0	609,983	-	
Dynasty Gas Marketing Inc	FE89-85-NG	Detroit River	MI	811,900	0	-	
JMC Fuel Services Inc	FE90-69-NG	St Clair River	MI	684,338	0	-	
Montana Power Co	CP-66-102	Sweetgrass	MT	40,664	14,278	-64.9	
North Canadian Marketing Corp	FE90-37-NG	Detroit River	MI	0	83,222	-	
Tarpon Gas Marketing Ltd	FE91-62-NG	Detroit River	MI	0	1,077,562	-	
Tennessee Gas P L Co	FE90-64-NG et al.	St Clair River	MI	0	24,422,201	-	
	FE90-64-NG et al.	St Clair River	MI	6,645,832	0	-	
Unigas Energy Inc	FE89-84-NG	Detroit River	MI	896,295	0	-	
	FE92-03-NG et al.	Detroit River	MI	0	1,181,339	-	
	FE89-89-NG	St Clair River	MI	1,548,400	0	-	
Union Gas Ltd	FE90-31-NG	Detroit River	MI	1,205,782	7,156,014	493.5	
Western Gas Marketing Ltd	FE90-31-NG	St Clair River	MI	898,669	5,163,328	474.6	
	FE90-55-NG	Detroit River	MI	30,000	11,125,103	6,983.7	
	FE90-55-NG et al.	St Clair River	MI	0	12,220,582	-	
<b>Total Canada</b>				14,791,280	67,777,448	358.2	
<b>Pipeline Exports to Mexico</b>							
Access Energy Corp	FE90-75-NG	Hidalgo	TX	0	384,167	-	
American Central Gas Cos Inc	FE91-06-NG	Hidalgo	TX	460,675	0	-	
Amoco Energy Trading Co	FE89-59-NG	El Paso	TX	0	1,145,458	-	
	FE89-59-NG et al.	Hidalgo	TX	1,399,743	10,042,752	617.5	
	FE89-59-NG	Naco	AZ	0	242,922	-	
Anadarko Trading Company	FE92-32-NG	Hidalgo	TX	0	1,411,129	-	
Aquila Southwest Marketing Co.	FE90-94-NG et al.	Hidalgo	TX	0	8,607,609	-	
Catex Energy Inc.	FE90-109-NG	Hidalgo	TX	203,558	0	-	
Chevron Nat Gas Svc Inc	FE89-07-NG	Hidalgo	TX	3,314,141	1,463,717	-55.8	
Clajon Marketing L.P.	FE90-94-NG	Hidalgo	TX	2,760,965	0	-	
Coastal Gas Marketing Co	FE90-19-NG	Hidalgo	TX	513,404	0	-	
Conoco Inc	FE91-32-NG	Hidalgo	TX	4,346,294	7,430,834	71.0	
Cornerstone Natural Gas Co	FE89-02-NG	Hidalgo	TX	1,000,861	0	-	
El Paso Nat Gas Co	ERA78-15-NG	Naco	AZ	416,173	1,756,915	322.2	
Enron Gas Marketing Inc	FE91-74-NG et al.	El Paso	TX	0	297,018	-	
	FE89-57-NG	Hidalgo	TX	691,239	527,309	-23.7	
Libra Marketing, Inc	ERA87-35-NG	Hidalgo	TX	4,147,392	0	-	
Marathon Oil Co	FE91-90-NG	Hidalgo	TX	0	111,904	-	
Markwest Hydrocarbon Partners	FE92-01-NG	Hidalgo	TX	0	134,276	-	
Meridian Oil Transportation	FE91-109-NG	El Paso	TX	0	2,323,868	-	
Midcon Marketing Corp	FE91-56-NG	Hidalgo	TX	176,851	0	-	
Mobil Natural Gas Inc	FE91-12-NG	El Paso	TX	417,145	4,726,000	1032.9	
	FE91-12-NG	Hidalgo	TX	4,623,077	1,743,000	-62.3	
	FE91-12-NG	Penitas	TX	0	3,159,000	-	
Nat Gas Clearinghouse	F291-50-NG et al.	E' do	TX	0	189,731	-	
	FE91-50-NG	Hidalgo	TX	0	1,032,809	-	
	FE91-50-NG et al.	Naco	AZ	0	161,684	-	
Oryx Gas Marketing L.P.	FE91-73-NG	Hidalgo	TX	0	260,000	-	
P.M.I. Commercio International	FE92-61-NG	Eagle Pass	TX	0	135,350	-	
	FE92-61-NG	El Paso	TX	0	2,896,244	-	
	FE92-61-NG	Hidalgo	TX	0	1,277,462	-	
	FE92-61-NG	Naco	AZ	0	403,559	-	
	FE92-61-NG	Penitas	TX	0	9,305,327	-	
Phillips Gas Marketing Co	FE91-118-NG	Hidalgo	TX	0	250,000	-	
Tennegasco Corp	FE89-01-NG	Hidalgo	TX	1,590,124	0	-	
Texaco Gas Marketing Inc	FE91-20-NG	El Paso	TX	0	1,395,000	-	
	FE91-20-NG et al.	Hidalgo	TX	4,936,200	7,374,862	49.4	
Texas Intl Gas &Oil Co	FE89-19-NG	El Paso	TX	312,742	218,102	-30.3	

See footnotes at end of table.

**Table FE8. U.S. Natural Gas Exports, 1991-1992 (Continued)**

Heating Content (million Btu)		Average Btu/ Cubic Foot		Cost (dollars)		Average Price				Volume (barrels)	
						(dollars/thousand cubic feet)		(dollars/million Btu)			
1991	1992	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992
0	415,435	-	1,068	0	628,758	-	1.62	-	1.51	-	-
0	248,981	-	1,010	0	436,216	-	1.77	-	1.75	-	-
113,287	0	1,002	-	213,399	0	1.89	-	1.88	-	-	-
0	4,088,485	-	1,000	0	8,127,466	-	1.99	-	1.99	-	-
270,753	0	1,000	-	568,581	0	2.10	-	2.10	-	-	-
1,645,586	0	1,000	-	3,801,304	0	2.31	-	2.31	-	-	-
0	631,014	-	1,034	0	1,488,735	-	2.44	-	2.36	-	-
811,900	0	1,000	-	1,391,868	0	1.71	-	1.71	-	-	-
683,800	0	999	-	1,753,947	0	2.56	-	2.57	-	-	-
40,399	14,213	993	995	69,939	23,806	1.72	1.67	1.73	1.67	-	-
0	83,783	-	1,007	0	105,535	-	1.27	-	1.26	-	-
0	1,077,562	-	1,000	0	2,510,719	-	2.33	-	2.33	-	-
0	24,738,415	-	1,013	0	33,881,089	-	1.39	-	1.37	-	-
6,724,197	0	1,012	-	10,426,190	0	1.57	-	1.55	-	-	-
896,295	0	1,000	-	1,448,396	0	1.62	-	1.62	-	-	-
0	1,181,339	-	1,000	0	2,191,922	-	1.86	-	1.86	-	-
1,548,400	0	1,000	-	3,408,763	0	2.20	-	2.20	-	-	-
1,220,095	7,212,588	1,012	1,008	3,159,583	16,289,968	2.62	2.28	2.59	2.26	-	-
927,078	5,295,283	1,032	1,026	1,945,634	10,713,865	2.17	2.07	2.10	2.02	-	-
30,060	11,184,881	1,002	1,005	45,090	23,461,888	1.50	2.11	1.50	2.10	-	-
0	12,377,614	-	1,013	0	24,483,513	-	2.00	-	1.98	-	-
14,911,850	68,549,593	1,008	1,011	28,232,694	124,343,480	1.91	1.83	1.89	1.81	-	-
0	384,167	-	1,000	0	675,860	-	1.76	-	1.76	-	-
460,675	0	1,000	-	935,170	0	2.03	-	2.03	-	-	-
0	1,191,947	-	1,041	0	2,241,341	-	1.96	-	1.88	-	-
1,463,776	10,324,498	1,046	1,028	3,017,435	20,070,319	2.16	2.00	2.06	1.94	-	-
0	242,922	-	1,000	0	316,407	-	1.30	-	1.30	-	-
0	1,437,872	-	1,019	0	3,071,455	-	2.18	-	2.14	-	-
0	8,607,609	-	1,000	0	15,111,718	-	1.76	-	1.76	-	-
203,958	0	1,000	-	440,549	0	2.16	-	2.16	-	-	-
3,413,566	1,566,920	1,030	1,071	4,664,079	3,148,644	1.41	2.15	1.37	2.01	-	-
2,799,965	0	1,014	-	4,407,431	0	1.60	-	1.57	-	-	-
527,420	0	1,027	-	772,211	0	1.50	-	1.46	-	-	-
4,552,888	7,706,161	1,048	1,037	7,964,449	12,923,140	1.83	1.74	1.75	1.68	-	-
1,030,888	0	1,030	-	1,945,559	0	1.94	-	1.89	-	-	-
433,597	1,810,080	1,042	1,030	1,029,310	1,957,394	2.47	1.11	2.37	1.08	-	-
0	297,018	-	1,000	0	626,662	-	2.11	-	2.11	-	-
691,239	527,309	1,000	1,000	1,091,268	968,889	1.58	1.84	1.58	1.84	-	-
4,320,626	0	1,042	-	6,708,682	0	1.62	-	1.55	-	-	-
0	116,156	-	1,038	0	214,794	-	1.92	-	1.85	-	-
0	139,744	-	1,041	0	215,206	-	1.60	-	1.54	-	-
0	2,397,282	-	1,032	0	5,379,864	-	2.32	-	2.24	-	-
184,102	0	1,041	-	378,398	0	2.14	-	2.06	-	-	-
427,068	4,837,687	1,024	1,024	965,174	8,990,081	2.31	1.90	2.26	1.86	-	-
4,808,000	1,823,480	1,040	1,046	8,907,170	3,978,109	1.93	2.28	1.85	2.18	-	-
0	3,296,000	-	1,043	0	6,938,080	-	2.20	-	2.11	-	-
0	189,731	-	1,000	0	379,026	-	2.00	-	2.00	-	-
0	1,032,809	-	1,000	0	2,535,204	-	2.45	-	2.45	-	-
0	161,684	-	1,000	0	334,787	-	2.07	-	2.07	-	-
0	283,400	-	1,090	0	714,168	-	2.75	-	2.52	-	-
0	154,137	-	1,139	0	426,461	-	3.15	-	2.77	-	-
0	2,978,631	-	1,028	0	6,272,460	-	2.17	-	2.11	-	-
0	1,331,819	-	1,043	0	2,948,647	-	2.31	-	2.21	-	-
0	415,085	-	1,029	0	1,029,805	-	2.55	-	2.48	-	-
0	9,775,404	-	1,051	0	20,862,908	-	2.24	-	2.13	-	-
0	256,445	-	1,026	0	418,005	-	1.67	-	1.63	-	-
1,650,133	0	1,038	-	2,711,537	0	1.71	-	1.64	-	-	-
0	1,395,000	-	1,000	0	2,626,010	-	1.88	-	1.88	-	-
5,088,150	7,374,862	1,031	1,000	8,318,758	12,415,681	1.69	1.68	1.63	1.68	-	-
332,040	225,377	1,062	1,033	760,292	405,679	2.43	1.86	2.29	1.80	-	-

See footnotes at end of table.

**Table FE8. U.S. Natural Gas Exports, 1991-1992 (Continued)**

Exporting Companies	Docket Number	Point of Exit		Volume		
		City	State	(thousand cubic feet)		Percent Change
				1991	1992	
Pipeline Exports to Mexico						
Transamerican Natural Gas Corp	FE89-14-NG	Hidalgo	TX	1,952,486	0	-
Transco Energy Marketing Co	FE90-27-NG	Hidalgo	TX	1,674,298	746,782	-55.4
Trinity Pipeline	FE89-34-NG	El Paso	TX	652,628	2,644,016	305.1
	FE89-34-NG	Hidalgo	TX	9,297,724	12,508,641	34.5
	FE89-34-NG	Naco	AZ	825,102	0	-
Valero Industrial Gas L P	FE91-53-NG	Eagle Pass	TX	657,473	547,191	-16.8
	FE91-53-NG	El Paso	TX	0	686,750	-
	FE91-53-NG et al.	Hidalgo	TX	9,606,472	3,332,776	-65.3
	FE91-53-NG	Naco	AZ	355,844	0	-
Victoria Gas Corp	FE90-29-NG et al.	Hidalgo	TX	3,990,067	5,098,718	27.8
Yuma Gas Corp	FE89-81-NG	Hidalgo	TX	125,000	0	-
Total Mexico				60,448,078	95,972,882	58.8
Total Pipeline Exports				75,239,358	163,750,330	117.6
Liquefied Natural Gas (LNG) Exports to Japan						
Marathon Oil Co	CI67-1226	Port Nikiski	AK	16,196,157	15,762,639	-2.7
Phillips Alaska Nat.Gas Corp.	CI67-1226	Port Nikiski	AK	37,808,937	36,768,866	-2.8
Total LNG Exports				54,005,094	52,531,505	-2.7
Grand Total				129,244,452	216,281,835	67.3

See footnotes at end of table.

**Table FE8. U.S. Natural Gas Exports, 1991-1992 (Continued)**

Heating Content (million Btu)		Average Btu/ Cubic Foot		Cost (dollars)		Average Price				Volume (barrels)	
1991	1992	1991	1992	1991	1992	(dollars/thousand cubic feet)		(dollars/million Btu)		1991	1992
						1991	1992	1991	1992		
2,049,797	0	1,050	-	3,638,184	0	1.86	-	1.77	-	-	-
1,750,412	772,919	1,045	1,035	3,538,265	1,422,171	2.11	1.90	2.02	1.84	-	-
674,188	2,719,750	1,033	1,029	1,512,908	4,561,352	2.32	1.73	2.24	1.68	-	-
9,634,759	12,836,961	1,036	1,026	15,667,017	21,541,088	1.69	1.72	1.63	1.68	-	-
848,064	0	1,028	-	1,775,701	0	2.15	-	2.09	-	-	-
732,349	618,773	1,114	1,131	1,573,116	1,356,986	2.39	2.48	2.15	2.19	-	-
0	705,980	-	1,028	0	983,218	-	1.43	-	1.39	-	-
10,003,188	3,415,956	1,041	1,025	16,007,840	6,554,371	1.67	1.97	1.60	1.92	-	-
366,073	0	1,029	-	737,353	0	2.07	-	2.01	-	-	-
4,128,184	5,278,875	1,035	1,035	6,929,429	8,144,270	1.74	1.60	1.68	1.54	-	-
125,000	0	1,000	-	236,488	0	1.89	-	1.89	-	-	-
62,700,105	98,630,450	1,037	1,028	106,633,773	182,760,260	1.76	1.90	1.70	1.85	-	-
77,611,955	167,180,043	1,032	1,021	134,866,467	307,103,740	1.79	1.88	1.74	1.84	-	-
16,350,022	15,912,386	1,010	1,010	60,056,323	54,104,410	3.71	3.43	3.67	3.40	4,657,011	4,550,628
38,168,123	37,118,171	1,010	1,010	140,057,543	126,227,584	3.70	3.43	3.67	3.40	10,871,370	10,573,140
54,518,145	53,030,557	1,010	1,010	200,113,866	180,331,994	3.71	3.43	3.67	3.40	15,528,381	15,123,768
132,130,100	102,210,600	1,022	1,018	334,980,333	487,435,734	2.59	2.25	2.54	2.21	-	-

- = Not applicable.

Note: The base price of LNG to Japan is adjusted by a formula indexing the base price to the weighted average price of crude oils imported into Japan. Geographic coverage is the continental United States including Alaska.

Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

**Table FE9. Summary of U.S. Natural Gas Exports, 1977-1992**  
 (Volume in Million Cubic Feet; Average Price in Dollars per Thousand  
 Cubic Feet)

Year and Month	Pipeline				Total Pipeline		LNG		Grand Total	
	Canada		Mexico		Volume	Average Price	Japan		Volume	Average Price
	Volume	Average Price	Volume	Average Price			Volume	Average Price		
1977 Total	31	1.54	3,940	1.41	3,971	1.41	51,655	1.96	55,626	1.92
1978 Total	66	1.79	4,033	1.65	4,098	1.66	48,434	2.17	52,532	2.13
1979 Total	76	2.04	4,308	1.97	4,384	1.97	51,289	2.32	55,673	2.29
1980 Total	113	3.31	3,886	2.47	3,999	2.50	44,732	4.90	48,731	4.70
1981 Total	106	4.79	3,337	3.37	3,443	3.41	55,929	6.05	59,372	5.90
1982 Total	162	4.95	1,705	5.17	1,867	5.15	49,861	5.83	51,728	5.81
1983 Total	136	4.60	1,646	4.79	1,782	4.78	52,857	5.11	54,639	5.10
1984 Total	127	4.19	1,786	4.48	1,913	4.46	52,840	4.93	54,753	4.83
1985 Total	178	3.06	2,207	3.99	2,385	3.92	52,883	4.81	55,268	4.77
1986 Total	9,203	2.12	1,896	3.49	11,099	2.35	50,172	2.91	61,271	2.81
1987 Total	3,297	1.81	2,125	3.18	5,421	2.35	48,599	3.15	54,020	3.07
1988 Total	19,738	2.02	2,327	3.21	22,065	2.14	51,573	2.99	73,638	2.74
1989 Total	38,443	2.00	17,004	2.14	55,447	2.05	51,424	3.01	106,871	2.51
1990 Total	17,359	2.70	15,659	1.88	33,018	2.31	52,546	3.59	85,565	3.10
<b>1991</b>										
January	1,710	2.47	3,477	2.19	5,187	2.28	4,375	5.19	9,562	3.61
February	3,343	2.02	2,853	1.70	6,196	1.87	4,370	4.79	10,566	3.08
March	1,228	2.04	4,404	1.61	5,632	1.70	4,369	4.13	10,001	2.76
April	2	1.71	3,208	1.56	3,210	1.56	5,829	3.59	9,039	2.87
May	36	1.73	4,762	1.46	4,798	1.46	2,947	3.23	7,744	2.14
June	31	1.51	3,759	1.43	3,790	1.43	2,915	3.18	6,706	2.19
July	195	1.24	3,235	1.28	3,430	1.28	4,400	3.20	7,830	2.36
August	540	1.21	3,117	1.40	3,658	1.37	5,869	3.25	9,526	2.53
September	446	1.30	5,921	1.68	6,367	1.65	4,370	3.31	10,737	2.32
October	2,245	1.57	7,776	1.84	10,021	1.78	4,371	3.39	14,393	2.27
November	2,385	1.87	8,349	2.00	10,734	1.97	4,371	3.50	15,105	2.41
December	2,630	1.97	9,586	2.12	12,216	2.09	5,820	3.61	18,036	2.58
<b>Total</b>	14,791	1.91	60,448	1.76	75,239	1.79	54,005	3.71	129,244	2.59
<b>1992</b>										
January	2,377	1.87	9,687	1.83	12,064	1.84	4,368	3.58	16,432	2.30
February	3,654	1.43	5,963	1.24	9,617	1.31	4,369	3.44	13,986	1.98
March	11,437	1.95	6,707	1.37	18,144	1.74	4,367	3.27	22,511	2.03
April	5,980	1.35	7,371	1.52	13,351	1.44	4,403	3.21	17,754	1.88
May	5,919	1.56	7,285	1.69	13,204	1.63	5,827	3.23	19,030	2.12
June	6,172	1.81	7,262	1.78	13,435	1.80	4,378	3.31	17,812	2.17
July	5,230	1.67	6,258	1.68	11,489	1.68	4,379	3.44	15,868	2.16
August	5,074	1.84	8,778	1.97	13,852	1.92	4,377	3.56	18,229	2.31
September	5,547	1.91	8,181	2.00	13,728	1.96	4,408	3.61	18,136	2.36
October	6,290	2.19	10,063	2.66	16,353	2.48	2,920	3.59	19,272	2.65
November	3,487	2.04	10,674	2.26	14,161	2.20	4,366	3.56	18,527	2.52
December	6,611	2.18	7,743	2.18	14,354	2.18	4,370	3.52	18,724	2.49
<b>Total</b>	67,777	1.83	95,973	1.90	163,750	1.88	52,532	3.43	216,282	2.25

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

Source: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

## Form FPC-14

### ***Survey Design and Data Collection Operations***

The data for "U.S. Natural Gas Imports and Exports" are taken from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Prior to 1972, the Federal Power Commission (FPC) collected import and export natural gas data informally by letter. Since 1973, the data have been collected annually on Form FPC-14 on a mandatory basis.

The information in this report is required by the U.S. Department of Energy's Office of Fossil Energy and the Federal Energy Regulatory Commission in carrying out their regulatory responsibilities under the Natural Gas Act of 1938. Each person having authorization to import and export natural gas is required to file Form FPC-14 annually, regardless of whether that privilege has been exercised during the reporting year.

The respondent list for Form FPC-14 is updated at the beginning of each year. All new respondents with authorization to import or export natural gas are added to the list, and respondents whose licenses have expired are deleted. A total of 375 companies had authorization to import or export natural gas in 1992, but only 143 reported activity during the year.

Five copies of Form FPC-14 are mailed in February to all companies authorized to import or export natural gas. The completed original and three copies are to be filed on or before March 31 of each year, for the preceding calendar year. Companies that have not filed by March 31 are contacted.

Respondents are required to certify the accuracy of all data reported. The survey forms are checked for reasonableness and accuracy. If errors are found the companies are required to file corrected data. The data are processed and published as reported.

Michigan Consolidated Gas Company imports natural gas from Canada as part of an energy exchange for ethane exported to Canada. In 1992 this exchange gas totaled 507,644 thousand cubic feet, on an equivalent Btu basis. This information appears in the appropriate table footnotes. Information about similar exchanges in previous years appears in feature articles for those years.

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 prices are in U.S. dollars and import and export prices are those paid at the U.S. border (except exports of LNG which are the prices paid at the point of sale and delivery in Yokohama, Japan).

### ***Data Reporting Requirements***

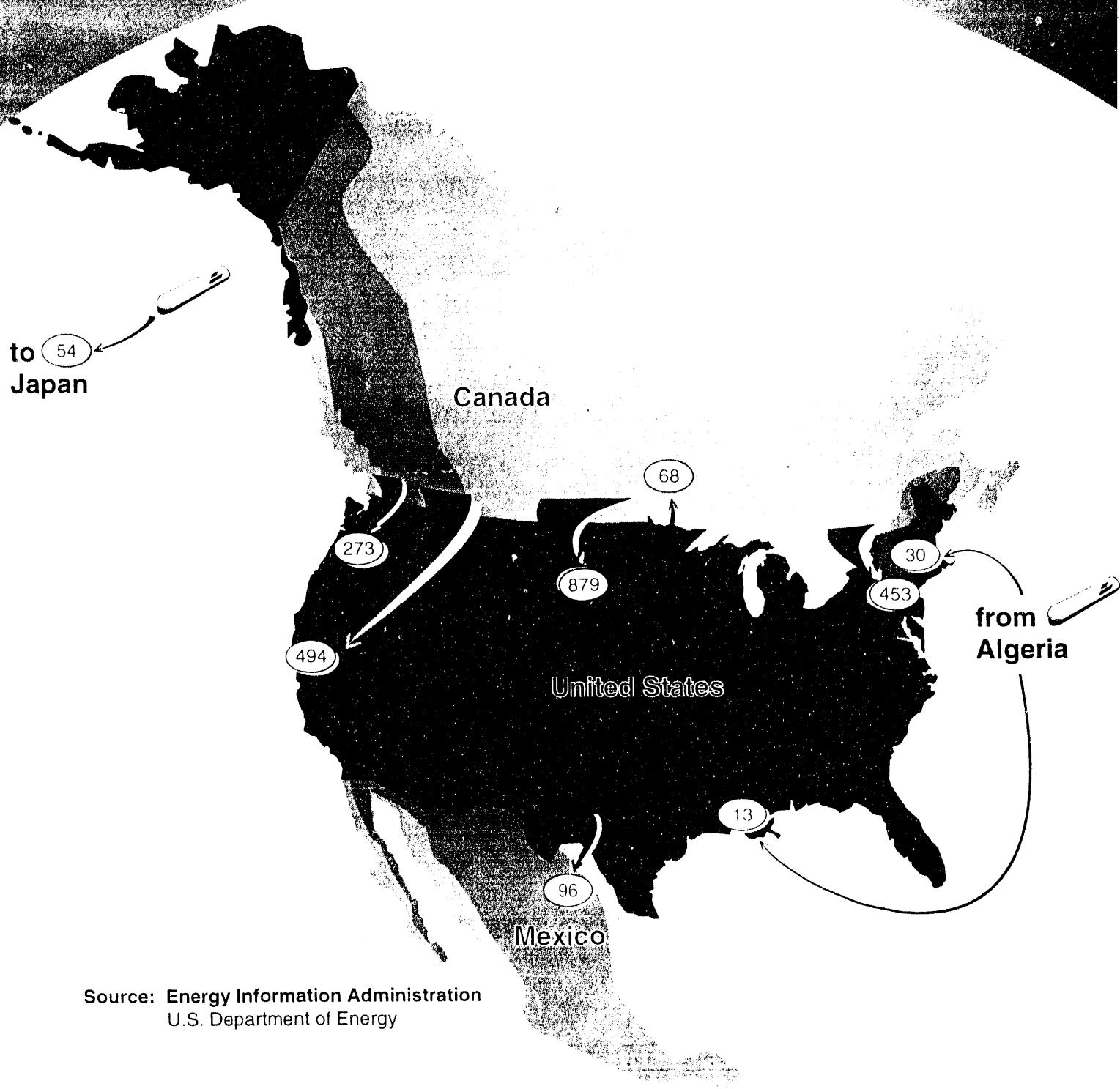
The Form FPC-14 is a two-page form. The top of the form lists the name and address of the respondent and the reporting year. Schedule I, "Gaseous Phase Natural Gas," page 1, and Schedule II, "Liquefied Natural Gas," page 2, request the names of the foreign seller or buyer, transporter, U.S. entry or exit point, docket number, and whether gas was imported or exported. The main sections of Schedule I and Schedule II are for reporting, by month, the quantity imported or exported and the amount paid or received at the entry or exit point. See Appendix B, "Data Sources," of this report for a copy of the Form FPC-14.

### ***Comparison with Other Data Sources***

Import and export data submitted on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," are compared with the data reported on the Form FPC-14. Any reporting discrepancies between the two surveys are resolved.

# U.S. NATURAL GAS IMPORTS & EXPORTS, 1992

(Billion Cubic Feet)



Source: Energy Information Administration  
U.S. Department of Energy

# Overview

## Supply and Disposition

The Energy Information Administration estimates that marketed production (gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations) totaled 1,567 billion cubic feet in June 1993 (Table 1). This is 3 percent higher than in June 1992.

The total gas supply available for disposition in June 1993 was an estimated 1,572 billion cubic feet, 5 percent less than in June 1992 (Table 2). The June 1993 total includes 43 billion cubic feet withdrawn from storage, 9 billion cubic feet of supplemental fuel supplies, and 193 billion cubic feet of imported gas.

On the disposition side, the consumption of 1,144 billion cubic feet was 10 percent less than in May 1993 and 10 percent less than in June 1992 (Table 2). Total disposition included 415 billion cubic feet of gas injected into underground storage reservoirs and exports of 13 billion cubic feet.

## Consumption

Data for the four major end-use sectors indicate that the total amount of gas delivered to all consumers decreased to 1,126 billion cubic feet in May 1993, from 1,508 billion cubic feet in April 1993 (Table 3). Consumption in the industrial sector decreased from 621 billion cubic feet in April 1993 to 575 billion cubic feet in May 1993, a decrease of 9 percent.

The electric utility sector consumed 167 billion cubic feet in May 1993, which is 4 percent less than in April 1993 and a 29-percent decrease from May 1992.

The residential sector consumed 230 billion cubic feet in May 1993, 8 percent less than in May 1992. The commercial sector consumed 153 billion cubic feet in May 1993, 7 percent higher than in May 1992.

## Prices

In May 1993, major interstate pipeline companies paid an average of \$2.81 per thousand cubic feet for gas purchased from domestic producers, 20 percent higher than April's \$2.34 price and a 41-percent increase from the \$1.99 paid in May 1992 (Table 4). In May 1993, these pipeline companies paid \$2.13 per thousand cubic feet for imported gas.

Distributors paid an average \$3.57 per thousand cubic feet for gas at the city gate in May 1993. This is 10 percent higher than what these distributors paid in April 1993 and 23 percent greater than they paid in May 1992. Residential consumers paid \$6.70 per thousand cubic feet in May 1993, 9 percent higher than what they paid in May 1992. Commercial consumers paid \$5.20 per thousand cubic feet in May 1993, 2 percent greater than the \$5.11 paid in April 1993 and 13 percent higher than what they paid in May 1992.

Industrial consumers paid \$3.24 per thousand cubic feet in May 1993, a 4-percent increase from the April 1993 price of \$3.13 and 33 percent greater than in May 1992. Electric utilities paid an average of \$2.75 per thousand cubic feet in April 1993, an increase of 5 percent from the \$2.61 per thousand cubic feet paid in March 1993.

**Table 1. Summary of Natural Gas Production in the United States, 1987-1993**  
(Billion Cubic Feet)

Year and Month	Gross Withdrawals	Repressuring	Nonhydrocarbon Gases Removed <sup>a</sup>	Vented and Flared	Marketed Production (Wet)	Extraction Loss <sup>b</sup>	Total Dry Gas Production <sup>c</sup>
<b>1987 Total .....</b>	20,140	2,208	376	124	17,433	812	16,621
<b>1988 Total .....</b>	20,999	2,478	460	143	17,918	816	17,103
<b>1989 Total .....</b>	21,074	2,475	362	142	18,095	785	17,311
<b>1990 Total .....</b>	21,523	2,489	289	150	18,594	784	17,810
<b>1991</b>							
January .....	1,963	235	24	13	1,692	76	1,616
February .....	1,741	221	22	12	1,487	67	1,420
March .....	1,894	245	24	13	1,612	72	1,539
April .....	1,804	234	21	14	1,546	69	1,467
May .....	1,791	227	23	15	1,526	69	1,458
June .....	1,717	226	22	14	1,455	65	1,389
July .....	1,744	236	23	16	1,469	66	1,403
August .....	1,744	231	23	15	1,474	66	1,408
September .....	1,720	214	24	14	1,468	66	1,402
October .....	1,868	245	23	15	1,585	71	1,513
November .....	1,869	226	23	15	1,605	72	1,533
December .....	1,948	231	24	15	1,678	75	1,603
<b>Total .....</b>	21,803	2,772	276	170	18,586	835	17,751
<b>1992</b>							
January .....	1,941	248	24	16	1,653	75	1,578
February .....	1,741	242	22	13	1,464	66	1,398
March .....	1,835	261	22	14	1,537	69	1,468
April .....	1,790	248	23	14	1,505	68	1,437
May .....	1,829	249	22	14	1,544	70	1,475
June .....	1,794	242	22	14	1,515	68	1,447
July .....	1,827	242	23	15	1,547	70	1,477
August .....	1,790	242	22	14	1,510	68	1,442
September .....	1,774	252	20	15	1,487	67	1,420
October .....	1,891	261	23	14	1,593	72	1,521
November .....	1,905	259	23	15	1,608	73	1,536
December .....	1,962	273	23	15	1,651	74	1,577
<b>Total .....</b>	22,078	3,019	269	174	18,617	840	17,777
<b>1993</b>							
January .....	1,992	269	22	15	1,686	76	1,610
February .....	1,774	245	22	14	1,493	67	1,426
March .....	R 1,938	265	R 21	R 14	R 1,638	74	R 1,564
April .....	R 1,899	R 255	R 23	R 16	R 1,605	R 72	R 1,532
May .....	RE 1,881	RE 259	RE 22	RE 15	E 1,585	E 71	E 1,514
June .....	E 1,859	E 256	E 22	E 14	E 1,567	E 71	E 1,496
<b>1993 YTD .....</b>	11,343	1,549	132	87	9,575	432	9,143
<b>1992 YTD .....</b>	10,930	1,490	135	85	9,220	416	8,804
<b>1991 YTD .....</b>	10,910	1,388	135	80	9,306	418	8,888

<sup>a</sup> See Appendix A, Explanatory Note 1 for a discussion of data on Nonhydrocarbon Gases Removed.

<sup>b</sup> 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.

<sup>c</sup> Equal to marketed production (wet) minus extraction loss.

E = Estimated Data.

R = Revised Data.

RE = Revised Estimated Data.

Notes: Data for 1987 through 1991 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: EIA, *Natural Gas Annual 1991*, Table 7 and EIA estimates, January 1992 through current month. See Appendix A, Explanatory Notes 1, 3, and 6 for discussion of computation, estimating procedures, and revision policy.

**Table 2. Supply and Disposition of Dry Natural Gas in the United States, 1987-1993**  
(Billion Cubic Feet)

Year and Month	Supply					Total Supply/Disposition <sup>d</sup>	Disposition		
	Total Dry Gas Production	Withdrawals from Storage <sup>a</sup>	Supplemental Gaseous Fuels <sup>b</sup>	Imports	Balancing Item <sup>c</sup>		Additions to Storage <sup>a</sup>	Exports	Consumption <sup>a</sup>
<b>1987 Total</b>	16,621	1,905	101	993	-444	19,176	1,911	54	17,211
<b>1988 Total</b>	17,103	2,270	101	1,294	-453	20,315	2,211	74	18,030
<b>1989 Total</b>	17,311	2,854	107	1,382	-218	21,435	2,528	107	18,801
<b>1990 Total</b>	17,810	1,986	123	1,532	-149	21,302	2,499	86	18,716
<b>1991</b>									
January	1,616	682	11	163	-39	2,433	115	10	2,308
February	1,420	409	10	138	67	2,044	112	11	1,920
March	1,539	297	11	151	-11	1,987	129	10	1,848
April	1,467	104	10	144	69	1,793	234	9	1,550
May	1,458	58	9	141	17	1,683	331	8	1,344
June	1,389	42	8	133	-34	1,538	326	7	1,206
July	1,403	75	9	135	-25	1,597	299	8	1,291
August	1,408	82	9	127	-44	1,582	290	10	1,281
September	1,402	78	8	134	-69	1,552	304	11	1,238
October	1,513	103	10	157	-85	1,698	258	14	1,426
November	1,533	360	9	169	-207	1,864	150	15	1,699
December	1,603	461	10	181	-95	2,160	125	18	2,018
<b>Total</b>	17,751	2,752	113	1,773	-457	21,932	2,672	129	19,129
<b>1992</b>									
January	1,578	572	12	R 165	R -4	R 2,323	57	R 16	R 2,249
February	1,398	436	11	R 175	R 92	R 2,112	53	14	R 2,045
March	1,468	370	11	R 180	R 21	2,050	73	R 23	R 1,955
April	1,437	140	10	R 176	R 121	R 1,885	159	18	R 1,708
May	1,475	50	9	R 174	R 71	R 1,779	321	R 19	R 1,439
June	1,447	40	8	R 162	R -7	R 1,650	358	R 18	R 1,275
July	1,477	52	8	R 167	R -9	R 1,696	352	R 16	R 1,328
August	1,442	62	9	R 175	R -33	R 1,655	358	R 18	R 1,279
September	1,420	52	9	R 166	R -23	R 1,624	336	R 18	1,270
October	1,521	80	10	R 176	R -121	R 1,667	262	R 19	1,385
November	1,536	267	11	R 210	R -224	R 1,800	94	19	R 1,688
December	1,577	535	12	R 209	R -133	R 2,201	57	19	R 2,125
<b>Total</b>	17,777	2,656	120	R 2,138	R -249	R 22,442	2,479	R 216	R 19,747
<b>1993</b>									
January	1,610	600	13	198	R -75	R 2,346	45	E 18	R 2,283
February	1,426	581	11	183	R -8	R 2,193	30	E 15	R 2,147
March	R 1,564	385	12	199	R 52	R 2,212	81	E 18	R 2,113
April	R 1,532	109	10	RE 185	R 63	R 1,899	222	R 11	R 1,666
May	E 1,514	25	E 8	RE 148	R 35	R 1,730	448	RE 13	R 1,269
June	E 1,496	43	E 9	E 193	-169	1,572	415	E 13	E 1,144
<b>1993 YTD</b>	9,143	1,743	62	1,106	-101	11,954	1,242	90	10,622
<b>1992 YTD</b>	8,804	1,608	61	1,033	293	11,799	1,021	108	10,671
<b>1991 YTD</b>	8,888	1,593	58	871	69	11,478	1,246	54	10,176

<sup>a</sup> Monthly and annual data for 1987 through 1991 include underground storage and liquefied natural gas storage. Data for January 1992 forward include underground storage only. See Appendix A, Explanatory Note 7 for discussion of computation procedures.

<sup>b</sup> Supplemental gaseous fuels data are only collected on an annual basis except for the Dakota Gasification Inc. coal gasification facility where they are gathered 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 .0028 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.

<sup>c</sup> Represents quantities lost and imbalances in data due to differences among data sources. See Appendix A, Explanatory Note 10 for full discussion.

<sup>d</sup> "Total" data for 1987 through 1991 do not equal equivalent data in Table 1 of the *Natural Gas Annual 1991* due to the exclusion of intransit receipts and deliveries in the *NGM*.

\* Consists of pipeline fuel use, lease and plant fuel use, and deliveries to consuming sectors as shown in Table 3.

E = Estimated Data.

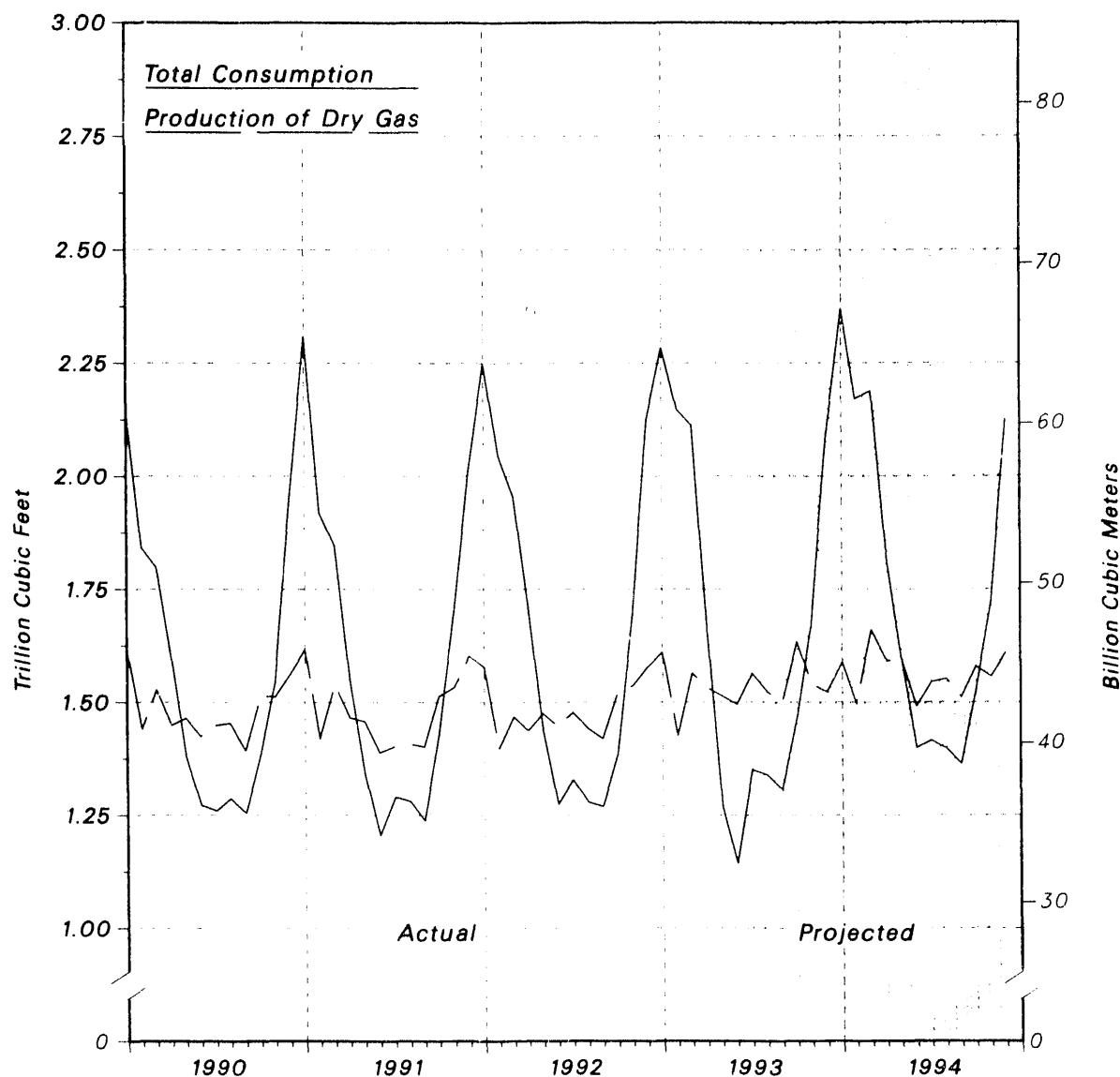
R = Revised Data.

RE = Revised Estimated Data.

Notes: Data for 1987 through 1991 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: •Total Dry Gas Production: EIA *Natural Gas Annual 1991*, 1987 through 1991; IOGCC, MMS reporting, and EIA estimates, January 1992 through current month. See Appendix A, Explanatory Note 3 for estimation procedures and revision policy. •Withdrawals from and Additions to Storage: EIA *Natural Gas Annual 1991*, 1987 through 1991; Form EIA-191, January 1992 through current month. •Supplemental Gaseous Fuels: EIA *Natural Gas Annual 1991* 1987 through 1991; and EIA computations, January 1992 through current month. See Appendix A, Explanatory Note 2 for discussion of computation procedures and revision policy. •Imports and Exports: Form FPC-14, 1987 through 1991; and EIA estimates, January 1992 through the current month. See Appendix A, Explanatory Note 4 for discussion of procedures and revision policy. •Consumption and Balancing Item: EIA *Natural Gas Annual 1991*, 1987 through 1991; and EIA computations, January 1992 through current month. See Appendix A, Explanatory Notes 5 and 10 for discussion of computation procedures and revision policy.

Figure 1. Production and Consumption of Natural Gas in the United States, 1990-1994



Source: *Natural Gas Annual* and the *Short Term Energy Outlook*.

**Table 3. Natural Gas Consumption in the United States, 1987-1993**  
(Billion Cubic Feet)

Year and Month	Lease and Plant Fuel <sup>a</sup>	Pipeline Fuel <sup>b</sup>	Delivered to Consumers					Total Consumption
			Residential	Commercial	Industrial	Electric Utilities	Total	
<b>1987 Total</b>	1,149	519	4,315	2,430	5,953	2,844	15,542	17,211
<b>1988 Total</b>	1,096	614	4,630	2,670	6,383	2,636	16,320	18,030
<b>1989 Total</b>	1,070	629	4,781	2,718	6,816	2,787	17,102	18,801
<b>1990 Total</b>	1,236	660	4,391	2,623	7,018	2,787	16,820	18,716
<b>1991</b>								
January	104	81	844	434	672	173	2,123	2,308
February	92	68	664	359	591	146	1,761	1,920
March	100	65	573	311	607	193	1,683	1,848
April	95	55	373	226	586	216	1,400	1,550
May	94	47	229	154	571	249	1,202	1,344
June	90	4	148	119	546	260	1,073	1,206
July	92	45	126	125	572	330	1,153	1,291
August	92	45	118	113	586	328	1,144	1,281
September	91	44	138	121	582	263	1,104	1,238
October	98	50	225	163	626	263	1,278	1,426
November	99	60	459	256	627	198	1,540	1,699
December	103	71	658	350	665	170	1,844	2,018
<b>Total</b>	1,150	674	4,556	2,730	7,231	2,789	17,305	19,129
<b>1992</b>								
January	102	79	787	405	R 707	169	R 2,067	R 2,249
February	91	72	695	362	R 655	170	R 1,882	R 2,045
March	95	69	578	313	R 692	208	R 1,791	R 1,955
April	93	60	431	247	R 648	229	R 1,554	R 1,708
May	96	51	251	168	R 637	236	R 1,293	R 1,439
June	94	45	162	123	R 585	266	R 1,136	R 1,275
July	96	47	132	121	R 599	334	R 1,186	R 1,328
August	94	45	126	120	R 593	303	R 1,141	R 1,279
September	92	45	137	119	603	274	1,133	1,270
October	99	49	241	164	620	213	1,238	1,385
November	100	59	439	252	R 647	189	R 1,528	R 1,688
December	102	75	719	374	R 679	176	R 1,948	R 2,125
<b>Total</b>	1,154	R 696	4,699	2,767	R 7,665	2,766	R 17,896	R 19,747
<b>1993</b>								
January	105	80	R 834	R 419	680	164	R 2,098	R 2,283
February	93	76	R 766	R 406	645	162	R 1,979	R 2,147
March	102	R 74	702	372	669	194	1,937	R 2,113
April	R 99	59	454	259	R 621	174	R 1,508	R 1,666
May	98	45	230	153	575	167	1,126	1,269
<b>1993 YTD</b>	496	334	2,987	1,609	3,191	861	8,648	9,478
<b>1992 YTD</b>	478	331	2,743	1,494	3,338	1,012	8,587	9,396
<b>1991 YTD</b>	485	316	2,683	1,483	3,027	977	8,169	8,971

<sup>a</sup> 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.

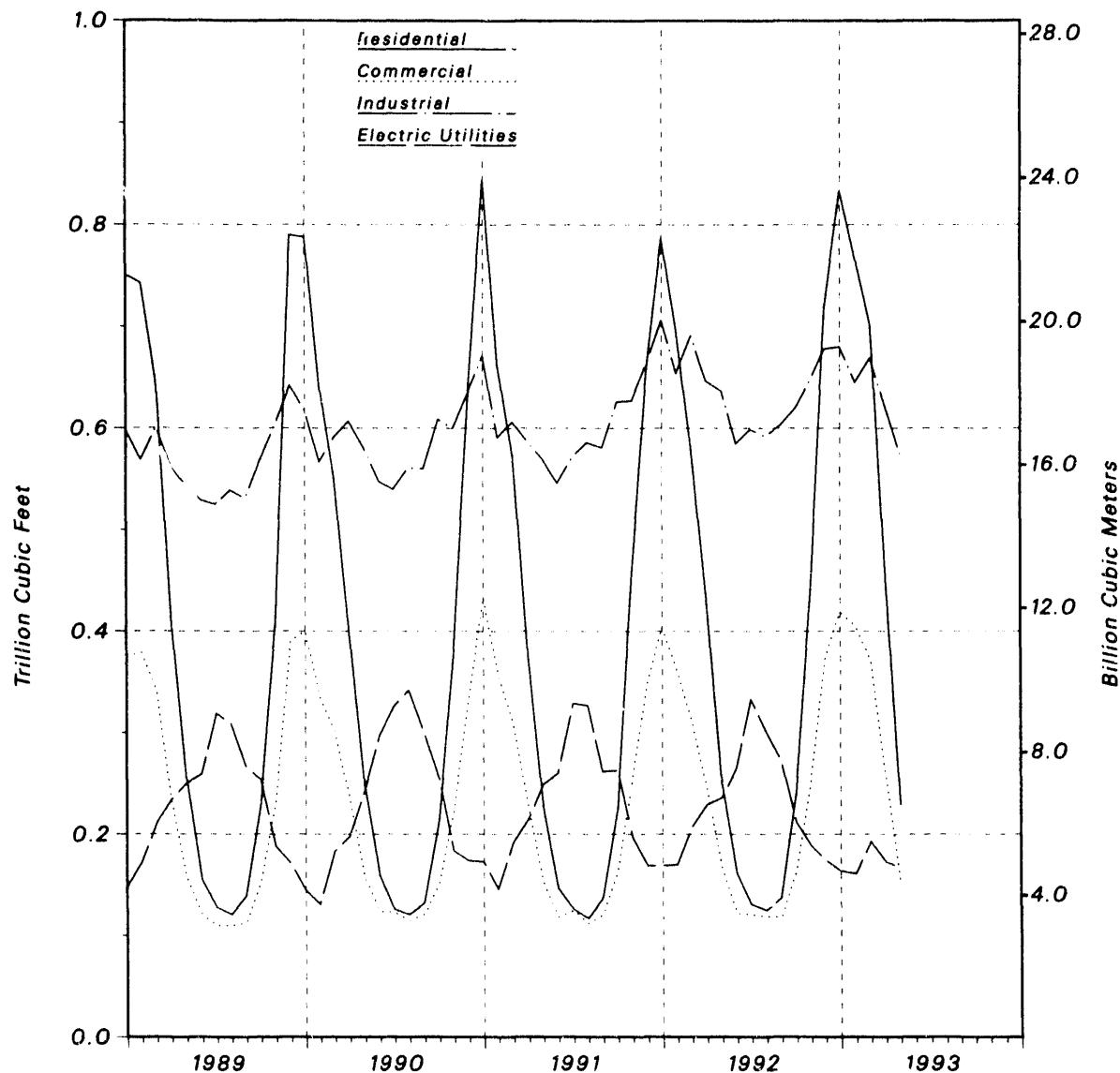
<sup>b</sup> Pipeline fuel use is only collected on an annual basis. Annually it is between 3 and 4 percent of total consumption. Monthly pipeline fuel data are estimated from monthly total consumption (excluding pipeline fuel) by assuming that the preceding annual percentage remains constant for the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

R = Revised Data.

Notes: Data for 1987 through 1991 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: All data except electric utility: EIA *Natural Gas Annual 1991*, 1987 through 1991; and Form EIA-857 and computations January 1992 through the current month. See Appendix A, Explanatory Note 5 for computation procedures and revision policy. Electric utility data: Form EIA-759, "Monthly Power Plant Report" (formerly Form FPC-4).

**Figure 2. Natural Gas Deliveries to Consumers in the United States, 1989-1993**



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

**Table 4. Selected National Average Natural Gas Prices, 1987-1993**  
(Dollars per Thousand Cubic Feet)

Year and Month	Wellhead Price <sup>a</sup>	Major Interstate Pipeline Companies		City Gate	Delivered to Consumers			
		Imports <sup>b</sup>	Purchased from Producers <sup>b</sup>		Residential	Commercial	Industrial	Electric Utilities <sup>c</sup>
<b>1987 Annual Average</b>	1.67	2.17	2.10	2.87	5.54	4.77	2.94	2.32
<b>1988 Annual Average</b>	1.69	2.00	2.13	2.92	5.47	4.63	2.95	2.33
<b>1989 Annual Average</b>	1.69	2.04	2.18	3.01	5.64	4.74	2.96	2.43
<b>1990 Annual Average</b>	1.71	2.03	2.19	3.03	5.80	4.83	2.93	2.39
<b>1991</b>								
January	1.96	2.20	2.19	3.08	5.54	4.94	3.25	2.70
February	1.62	2.10	1.93	2.94	5.56	4.94	2.97	2.35
March	1.49	1.92	2.02	2.78	5.60	4.89	2.75	2.21
April	1.50	2.03	1.87	2.74	5.90	4.87	2.68	2.10
May	1.48	1.99	1.96	2.76	6.28	4.65	2.40	2.01
June	1.43	2.03	1.75	2.86	6.98	4.80	2.34	1.94
July	1.34	2.11	1.79	2.74	7.23	4.50	2.23	1.88
August	1.43	1.71	1.71	2.78	7.36	4.73	2.29	1.96
September	1.59	1.84	1.76	2.91	6.92	4.57	2.40	2.19
October	1.82	2.00	1.94	2.92	6.20	4.58	2.69	2.35
November	1.89	2.20	2.02	2.92	5.51	4.71	2.84	2.43
December	2.00	2.09	2.11	3.05	5.51	4.84	3.09	2.64
<b>Annual Average</b>	1.64	2.02	1.92	2.90	5.82	4.81	2.69	2.18
<b>1992</b>								
January	1.73	2.20	2.10	2.90	5.53	4.85	3.05	2.49
February	1.31	1.98	1.70	2.71	5.53	5.04	2.79	2.03
March	1.40	1.45	1.90	2.62	5.48	4.77	2.58	1.99
April	1.47	2.01	1.73	2.75	5.61	4.78	2.53	2.07
May	1.57	1.79	1.99	2.90	6.14	4.59	2.44	2.11
June	1.68	2.03	2.16	3.01	6.82	4.72	2.52	2.18
July	1.61	1.89	1.86	3.01	7.23	4.63	2.50	2.15
August	1.91	1.82	2.14	3.18	7.40	4.72	2.68	2.42
September	1.99	2.05	2.13	3.24	7.11	4.69	2.78	2.51
October	2.46	2.13	2.69	3.49	6.20	4.64	2.98	3.04
November	2.20	2.32	2.37	3.33	5.99	5.11	3.24	2.87
December	2.14	1.92	2.40	3.17	5.71	5.11	3.34	2.81
<b>Annual Average</b>	1.80	1.97	2.10	3.01	5.86	4.87	2.81	2.37
<b>1993</b>								
January	2.05	2.02	2.17	3.10	5.71	5.17	3.25	2.70
February	1.79	1.91	1.94	2.94	5.71	5.08	3.12	2.55
March	1.97	1.78	2.20	3.06	5.67	5.06	3.09	2.61
April	R 2.11	2.15	2.34	3.24	5.98	5.11	3.13	2.75
May	E 2.02	2.13	2.81	3.57	6.70	5.20	3.24	NA
<b>1993 YTD</b>	1.99	2.00	2.29	3.13	5.82	5.11	3.16	1.96
<b>1992 YTD</b>	1.50	1.89	1.88	2.77	5.59	4.84	2.69	2.13
<b>1991 YTD</b>	1.61	2.05	2.00	2.90	5.67	4.89	2.84	2.32

<sup>a</sup> See Appendix A, Explanatory Note 8 for discussion of wellhead price.

<sup>b</sup> See Appendix A, Explanatory Note 9 for discussion of major interstate pipeline company data.

<sup>c</sup> Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

NA = Not Available.

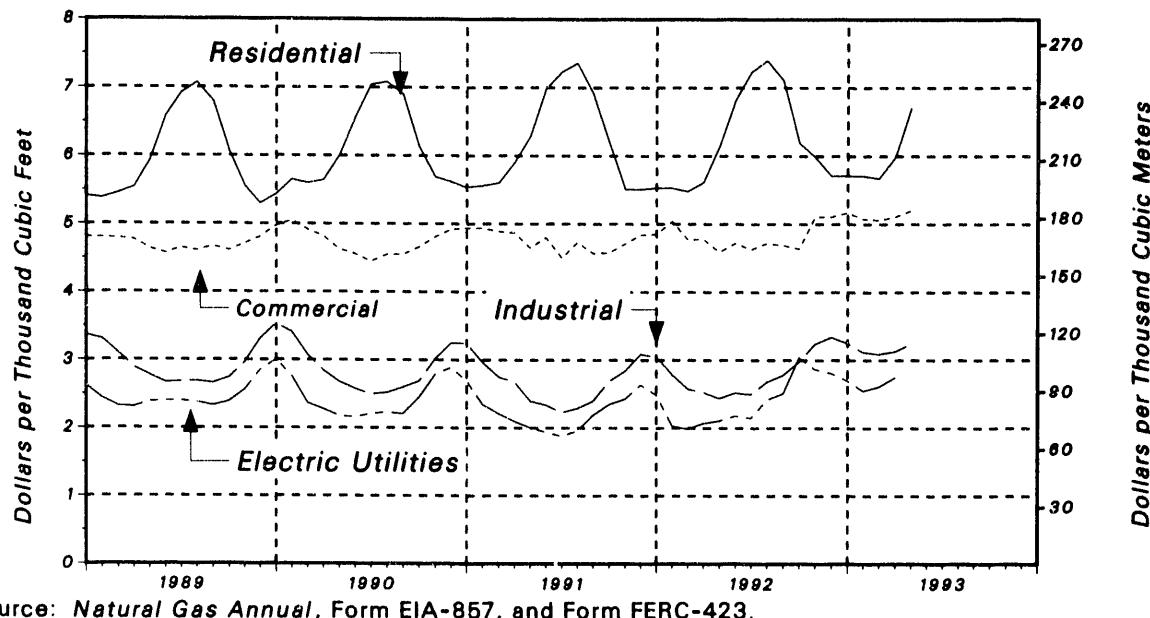
R = Revised Data.

E = Estimated Data.

Notes: Data for 1987 through 1991 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Prices for gas delivered to industrial consumers for 1987 include imputed averages for volumes of gas delivered for the account of others. From 1988 on, prices reflect on-system sales prices only. The change in series in 1988 affects the commercial and industrial sector prices.

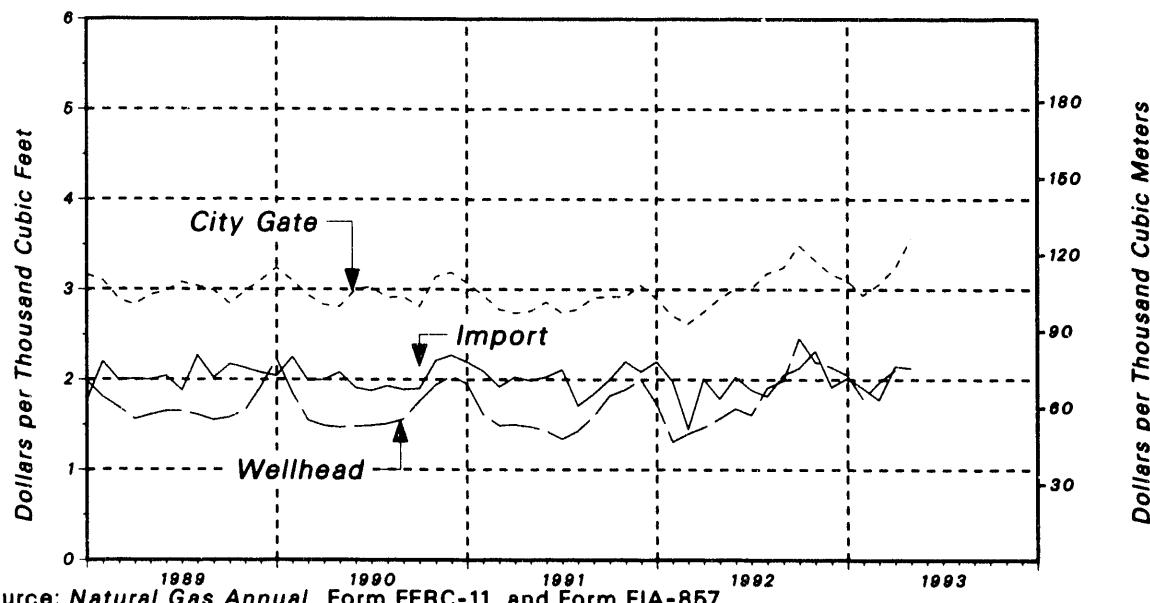
Sources: \*Average wellhead price: EIA *Natural Gas Annual 1991*, 1987 through 1991; and EIA estimates, January 1992 through current month. See Appendix A, Explanatory Note 8 for estimation procedures and revision policy. \*Imports and Interstate Pipeline Company Purchases: Form FERC-11. \*Average City Gate, Residential, Commercial and Industrial average prices for 1987 through current month from Form EIA-857. See Appendix A, Explanatory Note 5 for discussion of revision policy. \*Earlier prices from EIA *Natural Gas Annual 1991*. Electric Utilities average prices from Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

**Figure 3. Average Price of Natural Gas Delivered to Consumers in the United States, 1989-1993**



Source: *Natural Gas Annual*, Form EIA-857, and Form FERC-423.

**Figure 4. Average Price of Natural Gas in the United States, 1989-1993**



Source: *Natural Gas Annual*, Form FERC-11, and Form EIA-857.

**Table 5. U.S. Natural Gas Imports by Country, 1987-1993**  
 (Volumes in Million Cubic Feet, Prices in Dollars per Thousand  
 Cubic Feet)

Year and Month	Pipeline		LNG		Total	
	Canada		Algeria		Volume	Average Price
	Volume	Average Price	Volume	Average Price		
<b>1987 Total</b>	992,532	1.95	0	--	992,532	1.95
<b>1988 Total</b>	1,276,322	1.83	17,490	2.71	1,293,812	1.84
<b>1989 Total</b>	1,399,357	1.81	42,163	2.22	1,381,520	1.82
<b>1990 Total</b>	1,448,065	1.91	84,193	2.47	1,532,259	1.94
<b>1991</b>						
January	155,805	2.06	7,643	2.94	163,448	2.11
February	132,962	1.89	5,035	2.49	137,998	1.92
March	146,383	1.83	5,105	2.91	151,487	1.86
April	138,833	1.79	5,122	1.93	143,955	1.79
May	136,202	1.74	5,091	1.66	141,292	1.74
June	130,701	1.72	2,562	1.68	133,264	1.72
July	129,768	1.67	5,091	1.86	134,859	1.68
August	127,139	1.60	0	--	127,139	1.60
September	131,345	1.67	2,589	1.66	133,934	1.67
October	146,489	1.76	10,146	2.41	156,635	1.80
November	163,605	1.89	5,113	2.48	168,718	1.91
December	170,485	1.94	10,099	2.63	180,585	1.98
<b>Total</b>	1,709,716	1.81	63,596	2.36	1,773,313	1.83
<b>1992</b>						
January	R 157,026	R 1.95	R 7,610	R 2.49	R 164,636	R 1.98
February	R 170,167	R 1.64	5,076	R 2.91	R 175,243	R 1.68
March	R 177,978	R 1.63	2,503	R 3.32	R 180,482	R 1.65
April	R 173,615	R 1.62	2,531	R 2.12	R 176,146	R 1.63
May	R 174,312	R 1.66	0	--	R 174,312	R 1.66
June	R 159,743	R 1.77	2,505	R 2.09	R 162,249	R 1.77
July	R 167,216	R 1.70	0	--	R 167,216	R 1.70
August	R 172,240	R 1.81	2,492	R 3.15	R 174,733	R 1.83
September	R 163,584	R 1.96	2,533	R 1.83	R 166,117	R 1.96
October	R 173,904	R 2.21	2,563	R 3.19	R 176,466	R 2.22
November	R 202,846	R 1.94	R 7,633	R 2.57	R 210,479	R 1.96
December	R 201,756	R 2.13	R 7,670	R 2.17	R 209,426	R 2.13
<b>Total</b>	R 2,094,387	R 1.84	R 43,116	R 2.54	R 2,137,504	R 1.85
<b>1993</b>						
January	192,899	NA	5,141	NA	198,039	NA
February	175,444	NA	7,654	NA	183,097	NA
March	193,830	NA	5,146	NA	198,976	NA
April	RE 177,552	NA	7,720	NA	RE 185,272	NA
May	RE 143,092	NA	5,236	NA	RE 148,327	NA
June	E 185,029	NA	7,563	NA	E 192,593	NA
<b>1993 YTD</b>	1,067,846	NA	38,459	NA	1,106,305	NA
<b>1992 YTD</b>	1,012,842	1.71	20,226	2.60	1,033,067	1.72
<b>1991 YTD</b>	840,886	1.84	30,558	2.37	871,444	1.86

NA = Not Available.

-- = Not Applicable.

R = Revised Data.

E = Estimated Data.

RE = Revised Estimated data.

Source: 1987-1991: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," January 1992 through the current month; Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports, Fourth Quarter Report 1992*. Monthly data (for the most current months). Pipeline Fuel: data shown with an E are taken from data from the National Energy Board of Canada plus EIA estimates. LNG: industry reports.

**Table 6. U.S. Natural Gas Exports by Country, 1987-1993**  
 (Volumes in Million Cubic Feet, Prices in Dollars per Thousand  
 Cubic Feet)

Year and Month	Pipeline				LNG		Total	
	Canada		Mexico		Japan		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price		
<b>1987 Total</b>	3,297	1.81	2,125	3.18	48,599	3.15	54,020	3.07
<b>1988 Total</b>	19,738	2.02	2,327	3.21	51,573	2.99	73,638	2.74
<b>1989 Total</b>	38,443	2.00	17,004	2.14	51,424	3.01	106,871	2.51
<b>1990 Total</b>	17,359	2.70	15,659	1.88	52,546	3.59	85,565	3.10
<b>1991</b>								
January	1,710	2.47	3,477	2.19	4,375	5.19	9,562	3.61
February	3,343	2.02	2,853	1.70	4,370	4.79	10,566	3.08
March	1,228	2.04	4,404	1.61	4,369	4.13	10,001	2.76
April	2	1.71	3,208	1.56	5,829	3.59	9,039	2.87
May	36	1.73	4,762	1.46	2,947	3.23	7,744	2.14
June	31	1.51	3,759	1.43	2,915	3.18	6,706	2.19
July	195	1.24	3,235	1.28	4,400	3.20	7,830	2.36
August	540	1.21	3,117	1.40	5,869	3.25	9,526	2.53
September	446	1.30	5,921	1.68	4,370	3.31	10,737	2.32
October	2,245	1.57	7,776	1.84	4,371	3.39	14,393	2.27
November	2,385	1.87	8,349	2.00	4,371	3.50	15,105	2.41
December	2,630	1.97	9,586	2.12	5,820	3.61	18,036	2.58
<b>Total</b>	14,791	1.91	60,448	1.76	54,005	3.71	129,244	2.59
<b>1992</b>								
January	R 2,377	R 1.87	R 9,687	R 1.83	4,368	R 3.58	R 16,432	R 2.30
February	R 3,654	R 1.43	R 5,963	R 1.24	R 4,369	R 3.44	R 13,986	R 1.98
March	R 11,437	R 1.95	R 6,707	R 1.37	4,367	R 3.27	R 22,511	R 2.03
April	R 5,980	R 1.35	R 7,371	R 1.52	R 4,403	R 3.21	R 17,754	R 1.88
May	R 5,919	R 1.56	R 7,285	R 1.69	R 5,827	R 3.23	R 19,030	R 2.12
June	R 6,172	R 1.81	R 7,262	1.78	R 4,378	R 3.31	R 17,812	R 2.17
July	R 5,230	R 1.67	R 6,258	R 1.68	R 4,379	R 3.44	R 15,868	R 2.16
August	R 5,074	R 1.84	R 8,778	1.97	4,377	R 3.56	R 18,229	R 2.31
September	R 5,547	R 1.91	R 8,181	R 2.00	R 4,408	R 3.61	R 18,136	R 2.36
October	R 6,290	R 2.19	R 10,063	R 2.66	2,920	R 3.59	R 19,272	R 2.65
November	R 3,487	R 2.04	R 10,674	R 2.26	R 4,366	R 3.56	R 18,527	R 2.52
December	R 6,611	R 2.18	R 7,743	R 2.18	R 4,370	R 3.52	R 18,724	R 2.49
<b>Total</b>	R 67,777	R 1.83	R 95,973	1.90	R 52,532	R 3.43	R 216,282	R 2.25
<b>1993</b>								
January	E 5,000	NA	E 9,000	NA	4,367	NA	E 18,367	NA
February	E 5,000	NA	E 6,000	NA	4,355	NA	E 15,355	NA
March	E 5,000	NA	E 7,500	NA	5,812	NA	E 18,312	NA
April	E 4,000	NA	RE 3,000	NA	4,373	NA	RE 11,373	NA
May	E 5,000	NA	RE 4,000	NA	4,381	NA	RE 13,381	NA
June	E 5,000	NA	E 5,000	NA	2,950	NA	E 12,950	NA
<b>1993 YTD</b>	29,000	NA	34,500	NA	26,239	NA	89,739	NA
<b>1992 YTD</b>	35,539	1.70	44,275	1.60	27,712	3.33	107,526	2.08
<b>1991 YTD</b>	6,350	2.14	22,464	1.64	24,804	4.08	53,618	2.83

NA = Not Available.

R = Revised Data.

E = Estimated Data.

RE = Revised Estimated Data.

Source: 1987-1991: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," January 1992 through the current month; Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports, Fourth Quarter Report 1992*. Monthly data (for the most current months). Pipeline Fuel: data shown with an E are EIA estimates. LNG: industry reports.

**Table 7. Marketed Production of Natural Gas by State, 1987-1993**  
 (Million Cubic Feet)

Year and Month	Alabama	Alaska	California	Colorado	Florida	Kansas
<b>1987 Total</b>	117,241	359,837	424,621	164,557	8,281	472,752
<b>1988 Total</b>	129,524	378,638	399,663	191,541	7,484	592,845
<b>1989 Total</b>	128,411	393,729	362,860	216,737	7,534	601,196
<b>1990 Total</b>	135,276	402,907	362,748	242,997	6,483	573,603
<b>1991</b>						
January	13,267	40,203	30,159	20,110	290	63,891
February	11,866	36,265	27,015	23,344	285	54,601
March	13,131	38,847	32,268	23,648	325	57,863
April	13,020	34,664	30,902	24,673	412	51,936
May	13,906	32,434	31,072	22,724	301	50,733
June	13,174	33,065	29,259	23,034	94	46,685
July	14,400	33,840	32,169	23,088	381	44,912
August	15,273	33,448	31,021	23,659	465	42,777
September	11,850	41,609	31,944	22,546	543	43,491
October	15,207	36,384	35,427	23,868	602	50,386
November	15,502	38,363	34,194	24,349	591	57,959
December	20,250	38,700	32,953	30,918	594	63,225
<b>Total</b>	170,847	437,821	378,384	285,961	4,884	628,459
<b>1992</b>						
January	21,500	40,822	31,214	27,414	590	61,006
February	21,725	37,412	28,599	25,451	543	56,379
March	21,965	38,566	30,382	24,568	514	52,470
April	22,044	37,247	30,176	25,138	502	47,019
May	20,938	37,143	30,712	26,318	534	50,327
June	22,824	34,258	28,051	26,270	600	50,321
July	24,148	35,055	29,379	25,501	568	48,577
August	23,567	32,864	28,522	27,256	568	47,713
September	23,640	32,330	27,729	26,275	567	45,487
October	25,150	39,173	28,844	27,556	662	53,782
November	24,387	38,519	26,646	28,460	600	62,632
December	24,854	40,928	26,828	£ 32,046	599	68,404
<b>Total</b>	276,742	444,317	347,082	322,253	6,847	644,117
<b>1993</b>						
January	24,591	41,375	26,936	£ 29,601	637	64,279
February	22,157	35,689	24,005	£ 29,041	573	57,258
March	RE 23,492	41,674	£ 27,133	£ 28,775	R 603	R 61,084
April	£ 32,014	39,226	26,453	£ 28,910	601	£ 53,822
<b>1993 YTD</b>	102,254	157,964	104,527	116,327	2,414	236,443
<b>1992 YTD</b>	87,234	154,047	120,371	102,571	2,149	216,874
<b>1991 YTD</b>	51,284	149,979	120,345	91,775	1,313	228,291

See footnotes at end of table.

**Table 7. Marketed Production of Natural Gas by State, 1987-1993 (Continued)**  
 (Million Cubic Feet)

Year and Month	Louisiana	Michigan	Mississippi	Montana	New Mexico	North Dakota
<b>1987 Total</b>	5,122,509	146,996	139,727	46,456	823,773	62,258
<b>1988 Total</b>	5,180,267	146,145	124,053	51,654	791,819	57,747
<b>1989 Total</b>	5,078,125	155,988	102,645	51,307	854,615	51,174
<b>1990 Total</b>	5,241,989	172,151	94,616	50,429	965,104	52,169
<b>1991</b>						
January	468,582	15,493	9,113	5,235	96,319	4,640
February	408,976	13,850	7,601	4,433	79,943	4,162
March	440,392	17,320	9,021	4,779	89,186	4,588
April	421,648	18,019	9,345	4,786	86,221	4,351
May	415,252	19,521	9,745	4,516	86,029	4,419
June	388,441	15,994	9,498	3,467	81,862	4,481
July	387,062	16,468	9,467	3,501	77,279	4,787
August	392,981	15,697	8,866	4,081	83,204	4,625
September	394,189	16,040	8,183	3,940	83,766	4,054
October	430,727	15,055	8,615	4,393	91,254	4,253
November	430,549	15,344	9,217	4,166	90,101	4,482
December	455,548	16,948	9,359	4,702	93,119	4,638
<b>Total</b>	5,034,347	195,749	108,031	51,999	1,038,282	53,479
<b>1992</b>						
January	455,526	13,589	8,635	4,821	92,625	4,179
February	403,984	12,208	7,601	4,800	84,455	3,802
March	422,854	15,539	7,728	5,199	92,897	4,378
April	413,831	14,654	7,521	4,563	99,043	3,826
May	433,964	12,540	7,579	4,387	105,375	3,822
June	418,752	20,196	7,423	3,641	98,615	3,788
July	429,576	15,735	7,507	3,822	109,411	3,910
August	383,921	16,728	7,527	3,714	111,769	3,960
September	£ 378,742	18,738	7,005	3,741	106,324	3,763
October	£ 413,140	17,142	7,591	4,499	108,619	4,100
November	£ 424,498	13,805	7,668	5,096	110,716	3,982
December	£ 444,516	18,376	7,565	5,158	116,724	3,905
<b>Total</b>	5,023,304	189,250	91,350	53,441	1,236,573	47,415
<b>1993</b>						
January	£ 449,393	18,622	7,657	5,205	116,697	4,167
February	£ 400,231	9,728	7,249	4,729	108,459	3,644
March	£ 425,024	24,098	7,166	£ 5,054	118,515	4,369
April	£ 415,982	19,700	7,047	4,304	£ 117,806	4,336
<b>1993 YTD</b>	1,690,630	72,148	29,119	19,292	461,477	16,516
<b>1992 YTD</b>	1,696,195	55,990	31,485	19,383	369,020	16,185
<b>1991 YTD</b>	1,739,598	64,682	35,081	19,233	351,669	17,741

See footnotes at end of table.

**Table 7. Marketed Production of Natural Gas by State, 1987-1993 (Continued)**  
 (Million Cubic Feet)

Year and Month	Oklahoma	Texas	Utah	Wyoming	Other* States	U.S. Total
<b>1987 Total</b>	2,073,461	6,126,315	87,158	497,980	758,979	17,432,901
<b>1988 Total</b>	2,167,050	6,286,029	101,372	509,058	803,573	17,918,465
<b>1989 Total</b>	2,237,037	6,241,425	120,089	665,699	826,576	18,095,147
<b>1990 Total</b>	2,258,471	6,343,146	145,875	735,728	810,100	18,593,792
<b>1991</b>						
January	194,179	573,117	13,995	68,011	74,942	1,691,546
February	176,577	500,163	11,573	60,587	65,519	1,486,761
March	189,362	538,160	12,789	70,023	69,824	1,611,528
April	182,592	511,425	11,468	66,126	64,097	1,535,684
May	181,866	517,003	11,206	62,086	63,281	1,526,095
June	168,292	504,443	10,567	61,837	60,584	1,454,778
July	176,757	509,407	11,021	62,410	62,247	1,469,195
August	171,545	507,636	12,009	65,429	61,743	1,474,459
September	167,684	504,853	11,131	62,169	60,125	1,468,116
October	180,504	544,201	13,869	63,623	66,206	1,584,573
November	179,976	549,557	14,091	68,055	66,392	1,604,890
December	184,515	574,064	11,098	66,172	71,366	1,678,170
<b>Total</b>	2,153,849	6,334,030	144,817	776,528	788,328	18,585,795
<b>1992</b>						
January	182,220	551,727	11,797	69,316	E 75,741	1,652,721
February	164,317	483,622	11,312	49,958	E 68,113	1,464,282
March	164,117	508,378	12,727	65,119	E 70,062	1,537,464
April	166,322	493,548	11,852	62,708	E 65,307	1,505,299
May	163,402	510,858	13,378	59,063	E 64,003	1,544,342
June	164,646	495,744	13,310	63,318	E 63,716	1,515,474
July	159,166	508,172	13,930	70,253	E 62,498	1,547,207
August	157,543	516,628	14,425	69,635	E 64,118	1,510,457
September	158,603	512,557	15,250	66,021	E 60,626	1,487,396
October	169,089	541,550	17,177	69,072	E 65,451	1,592,597
November	E 171,039	537,072	16,718	70,146	E 66,445	1,608,429
December	E 176,390	524,547	19,417	69,495	E 71,210	1,650,962
<b>Total</b>	1,996,854	6,184,403	171,293	784,104	797,290	18,616,630
<b>1993</b>						
January	E 181,847	553,029	19,774	67,413	E 75,313	1,686,336
February	E 162,327	490,478	19,304	51,199	E 67,368	1,493,439
March	E 167,673	554,949	22,763	R 56,178	E 69,816	R 1,638,366
April	E 165,335	538,617	18,986	65,860	E 65,653	1,604,652
<b>1993 YTD</b>	676,982	2,137,073	80,827	240,650	278,150	6,422,793
<b>1992 YTD</b>	676,976	2,037,275	47,688	247,101	279,223	6,159,766
<b>1991 YTD</b>	742,709	2,122,866	49,825	264,747	274,382	6,325,519

\* Includes Arizona, Arkansas, Illinois, Indiana, Kentucky, Maryland, Missouri, Nebraska, New York, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, Virginia and West Virginia. The 1993 monthly values for these States are estimated.

E Estimated Data.

R Revised Data.

RE Revised Estimated Data.

Notes: Data for 1987 through 1992 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: •EIA *Natural Gas Annual 1991*, 1987 through 1991. •IOGCC, MMS reports, and EIA computations, January 1992 through current month.

**Table 8. Revenues, Expenses, and Income of Major Interstate Natural Gas Pipeline Companies, 1987-1993**  
(Million Dollars)

Year and Month	Total Sales Volume <sup>a</sup> (Bcf)	Gas Operating Revenues	Gas Operating Expenses				Total Operating Income	Total Income Before Interest Charges and Extraordinary Expenses	Net Income <sup>c</sup>
			Operation and Maintenance	Depreciation, Depletion, and Amortization	Taxes <sup>b</sup>	Total Gas Operating Expenses			
<b>1987 Total</b>	6,758	27,469	21,871	1,520	552	25,151	2,333	3,493	1,414
<b>1988 Total</b>	6,414	26,637	22,640	1,579	582	24,940	1,803	3,350	1,366
<b>1989 Total</b>	5,652	26,703	21,522	1,451	596	24,168	2,575	4,595	2,311
<b>1990 Total</b>	4,877	24,275	18,980	1,483	648	21,686	2,590	4,227	2,319
<b>1991</b>									
January	686	3,126	2,395	116	61	2,729	397	448	303
February	415	2,095	1,541	116	58	1,809	286	355	222
March	384	1,960	1,445	117	53	1,699	261	273	151
April	289	1,548	1,224	118	53	1,412	137	200	68
May	227	1,386	1,045	118	56	1,229	157	215	74
June	184	1,263	1,870	118	52	1,759	-496	-422	-540
July	212	1,295	989	117	53	1,133	162	194	41
August	251	1,396	1,068	117	55	1,235	162	128	-11
September	229	1,387	1,268	118	46	1,364	23	-398	-545
October	304	1,613	1,232	37	49	1,361	252	276	120
November	439	2,127	1,615	116	50	1,863	264	312	166
December	433	2,452	2,304	101	42	2,565	-113	277	130
<b>Total</b>	4,052	21,649	17,996	1,311	627	20,158	1,492	1,857	179
<b>1992</b>									
January	413	2,240	1,647	117	64	1,954	286	382	241
February	347	1,800	1,281	42	59	1,514	285	378	253
March	348	1,832	1,314	118	56	1,586	246	380	246
April	276	1,526	1,112	119	56	1,339	187	279	135
May	269	1,476	1,084	123	58	1,311	165	368	R 232
June	215	1,441	1,056	113	52	1,253	188	314	171
July	234	1,417	1,020	124	55	1,237	181	298	147
August	264	1,564	1,157	131	54	1,412	152	268	124
September	254	1,957	1,552	-24	49	1,628	329	378	252
October	268	1,739	1,363	68	55	1,533	206	314	168
November	364	2,139	1,584	126	54	1,895	244	359	220
December	435	2,430	1,892	76	51	2,252	178	341	206
<b>Total</b>	R 3,686	21,562	16,063	1,133	664	18,914	2,648	4,057	R 2,394
<b>1993</b>									
January	366	2,070	1,434	121	57	1,703	367	398	267
February	395	2,001	1,395	120	59	1,696	305	393	272
March	401	2,013	1,396	118	55	1,705	308	404	268
April	278	1,617	1,161	216	55	1,516	101	295	168
May	185	1,420	1,062	105	54	1,251	168	108	-39

<sup>a</sup> Includes sales for resale and sales to ultimate consumers.

<sup>b</sup> Excludes income taxes.

<sup>c</sup> Total Income before Interest Charges and Extraordinary Expenses and Investment Tax Credits minus Income Taxes, Interest Charges, and Extraordinary Items.

R = Revised Data.

Notes: (1) Data up to the current month of the prior year are final. All other data are preliminary unless otherwise indicated. See Appendix A, Explanatory Note 9 for discussion of major interstate pipeline companies. Totals may not equal sum of components because of independent rounding. This table shows selected items only and therefore does not balance mathematically.

(2) As of January 1993, Arkla, Inc. does not meet the filing requirements for the FERC-11. Arkla Energy Resources Company (A.E.R. Co.) is a subsidiary of Arkla, Inc.. Data submitted on the FERC-11 for A.E.R. Co. will indicate less sales volumes and revenues than previous years reported by Arkla, Inc..

Source: Form FERC-11.

**Table 9. Volumes and Prices of Natural Gas Sold by Major Interstate Natural Gas Pipeline Companies, 1987-1993**  
 (Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	To Industrial Users		To Other Ultimate Consumers		Total Sales to Ultimate Consumers		Sales For Resale		Total Sales of Natural Gas		Number of Companies
	Volume	Price <sup>a</sup>	Volume	Price <sup>a</sup>	Volume	Price <sup>a</sup>	Volume	Price <sup>a</sup>	Volume	Price <sup>a</sup>	
<b>1987 Total</b>	442,041	3.07	301,567	5.06	743,608	3.91	5,213,629	3.37	5,957,237	3.44	47
<b>1988 Total</b>	294,821	2.65	440,683	4.99	735,504	4.05	4,866,193	3.47	5,601,697	3.55	46
<b>1989 Total</b>	392,843	2.58	465,592	5.02	858,435	3.91	4,324,349	3.51	5,182,784	3.58	50
<b>1990 Total</b>	229,662	2.80	374,166	5.18	603,828	4.28	3,849,486	3.40	4,453,314	3.52	51
<b>1991</b>											
January	17,703	2.95	68,692	4.71	86,395	4.35	549,376	3.54	635,771	3.65	50
February	11,731	2.62	43,492	4.51	55,223	4.11	325,749	3.65	380,972	3.72	50
March	9,786	2.73	36,250	4.56	46,036	4.17	328,651	3.30	374,687	3.40	50
April	9,047	2.70	21,575	4.82	30,622	4.19	246,762	3.31	277,384	3.41	50
May	11,951	2.38	16,004	5.20	27,955	4.00	188,041	3.58	215,996	3.63	50
June	12,894	2.10	13,048	5.42	25,942	3.77	144,958	3.93	170,900	3.91	50
July	12,018	2.05	18,288	4.83	30,306	3.72	169,807	3.61	200,113	3.62	50
August	15,449	1.94	16,466	4.93	31,915	3.48	205,892	3.33	237,807	3.35	50
September	12,293	2.32	14,785	5.18	27,078	3.88	185,285	3.37	212,363	3.44	50
October	15,654	2.38	20,363	5.11	36,017	3.92	253,721	3.30	289,738	3.38	49
November	14,778	2.70	44,862	4.63	59,640	4.15	363,264	3.27	422,904	3.39	49
December	13,908	2.83	50,253	4.72	64,161	4.31	348,207	4.00	412,368	4.05	49
<b>Total</b>	157,212	2.48	364,078	4.77	521,290	4.08	3,309,713	3.51	3,831,003	3.59	50
<b>1992</b>											
January	12,270	2.58	59,297	4.53	71,567	4.19	333,807	3.58	405,374	3.68	48
February	10,489	2.09	42,699	4.42	53,188	3.97	287,148	3.32	340,336	3.42	49
March	11,460	2.14	35,898	4.42	47,358	3.87	290,133	3.14	337,491	3.24	49
April	14,176	2.15	26,940	4.79	41,116	3.88	221,838	3.32	262,954	3.40	50
May	R 14,610	R 1.82	16,500	R 5.12	R 31,110	R 3.57	R 224,480	R 3.27	R 255,590	R 3.31	50
June	10,064	2.45	13,421	5.45	23,485	4.17	179,992	2.62	203,477	2.80	50
July	13,135	1.97	14,070	5.25	27,205	3.67	185,106	3.02	212,311	3.10	50
August	16,163	2.29	13,924	5.28	30,087	3.67	213,459	3.12	243,546	3.19	50
September	12,827	2.56	13,914	5.36	26,741	4.01	207,782	3.30	234,523	3.38	50
October	12,632	2.88	20,116	5.53	32,748	4.50	222,784	3.46	255,532	3.59	50
November	13,234	2.99	40,209	4.91	53,443	4.43	294,374	3.32	347,817	3.49	50
December	12,300	2.89	55,691	5.00	67,991	4.62	353,866	3.35	421,857	3.56	50
<b>Total</b>	R 153,360	R 2.39	352,679	4.85	R 506,039	R 4.11	R 3,014,769	R 3.27	R 3,520,808	R 3.39	50
<b>1993</b>											
January	4,623	2.62	6,747	4.44	11,370	3.70	344,821	3.38	356,191	3.39	51
February	6,494	2.24	5,221	4.47	11,715	3.23	369,081	2.98	380,796	2.99	51
March	5,762	2.42	5,078	4.48	10,840	3.38	369,600	2.96	380,440	2.98	51
April	7,415	2.30	3,626	4.54	11,041	3.04	260,533	3.06	271,574	3.06	51
May	7,609	2.43	2,026	4.92	9,635	2.95	168,359	3.19	177,994	3.17	51

<sup>a</sup> All prices are weighted averages

R = Revised Data.

Notes: (1) The summaries presented in this table are exclusive of transactions between major pipeline companies in the computation of total pipeline activities to eliminate double-counting. Data up to the current month of the prior year are final. All other data are preliminary unless otherwise indicated. See Appendix A, Explanatory Note 9 for discussion of major interstate pipeline companies. Totals may not equal sum of components because of independent rounding.

(2) As of January 1993, Arkla, Inc. does not meet the filing requirements for the FERC-11. Arkla Energy Resources Company (A.E.R. Co.) is a subsidiary of Arkla, Inc. Data submitted on the FERC-11 for A.E.R. Co. will indicate less sales volumes and revenues than previous years reported by Arkla, Inc..

Source: Form FERC-11.

**Table 10. Volumes and Prices of Natural Gas Sold by Major Interstate Natural Gas Pipeline Companies, by Company, May 1993**  
 (Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Pipeline Company	To Industrial Users		To Other Ultimate Consumers		Total Sales To Ultimate Consumers		Sales For Resale		Total Sales Of Natural Gas	
	Volume	Price*	Volume	Price*	Volume	Price*	Volume	Price*	Volume	Price*
Algonquin Gas	0	--	0	--	0	--	13	3.85	13	3.85
ANR	0	--	0	--	0	--	15,752	3.15	15,752	3.15
Arkla Energy Resources Co	1	5.00	0	--	1	5.00	2,906	5.05	2,907	5.05
Bear Creek Storage	0	--	0	--	0	--	0	--	0	--
Colorado Interstate	69	2.36	0	--	69	2.36	4,917	1.88	4,986	1.88
Columbia Gas Transm	0	--	0	--	0	--	1,481	3.67	1,481	3.67
Columbia Gulf	0	--	3	3.00	3	3.00	0	--	3	3.00
Consolidated Gas	0	--	0	--	0	--	1,008	2.46	1,008	2.46
East Tennessee	481	4.07	0	--	481	4.07	2,215	3.06	2,696	3.24
El Paso	2,276	1.89	0	--	2,276	1.89	7,481	2.10	9,757	2.05
Equitrans	75	3.25	0	--	75	3.25	614	3.14	689	3.15
Florida Gas	495	4.28	0	--	495	4.28	449	6.08	944	5.14
Great Lakes Gas	0	--	0	--	0	--	0	--	0	--
High Island Offshore	0	--	0	--	0	--	0	--	0	--
Iroquois Gas Transm. Sys.	0	--	0	--	0	--	0	--	0	--
K N Energy Inc	17	3.06	1,985	4.93	2,002	4.92	1,344	3.13	3,346	4.20
Kern River Gas Trans.	0	--	0	--	0	--	0	--	0	--
Michigan Gas Storage	0	--	0	--	0	--	74	3.11	74	3.11
Midwestern	0	--	0	--	0	--	758	7.30	758	7.30
Mississippi River	29	3.38	0	--	29	3.38	277	3.81	306	3.77
Mojave Pipeline Co.	0	--	0	--	0	--	0	--	0	--
Mountain Fuel Res	0	--	0	--	0	--	802	5.80	802	5.80
National Fuel	0	--	0	--	0	--	4,688	5.77	4,688	5.77
Natural Gas Pipeline	2	.50	0	--	2	.50	11,227	5.20	11,229	5.20
Northern Border	0	--	0	--	0	--	0	--	0	--
Northern Natural	0	--	0	--	0	--	3,530	5.36	3,530	5.36
Northwest Alaskan	0	--	0	--	0	--	22,430	2.13	22,430	2.13
Northwest Pipeline	0	--	0	--	0	--	2,973	2.45	2,973	2.45
Overthrust Pipeline	0	--	0	--	0	--	0	--	0	--
Pacific Gas Transm	0	--	0	--	0	--	23,847	2.15	23,847	2.15
Pacific Interstate	0	--	0	--	0	--	7,102	2.78	7,102	2.78
Panhandle Eastern	44	2.61	23	2.43	67	2.55	0	--	67	2.55
Sabine Pipeline Co	0	--	0	--	0	--	0	--	0	--
Sea Robin Pipeline	0	--	0	--	0	--	0	--	0	--
Southern Natural	3	4.00	0	--	3	4.00	1,327	2.99	1,330	2.99
Stingray Pipeline	0	--	0	--	0	--	0	--	0	--
Tenneco, Inc	1,913	1.63	0	--	1,913	1.63	2,531	7.78	4,444	5.13
Texas Eastern	0	--	0	--	0	--	25,907	4.03	25,907	4.03
Texas Gas Transm	0	--	0	--	0	--	1,938	4.13	1,938	4.13
Trailblazer Pipeline	0	--	0	--	0	--	0	--	0	--
Transcontinental	0	--	0	--	0	--	14,387	4.25	14,387	4.26
Transwestern Pipeline	0	--	13	2.31	13	2.31	1,013	2.08	1,026	2.08
Trunkline Gas Co	2	2.50	2	2.00	4	2.25	8,318	2.92	8,322	2.92
Trunkline LNG	0	--	0	--	0	--	0	--	0	--
U-T Offshore	0	--	0	--	0	--	0	--	0	--
United Gas Pipeline	2,107	2.74	0	--	2,107	2.77	1,221	5.96	3,326	3.94
Valero Interstate Transm	0	--	0	--	0	--	1,094	1.95	1,094	1.95
Viking Gas Company	0	--	0	--	0	--	0	--	0	--
Williams Natural	95	3.69	0	--	95	3.69	940	3.53	1,035	3.54
Williston Basin	0	--	0	--	0	--	340	3.48	340	3.48
Wyoming Interstate	0	--	0	--	0	--	0	--	0	--
Total/Average Price*	7,609	2.43	2,026	4.92	9,635	2.95	174,904	3.39	184,539	3.36
Sales to Other Major Companies	--	--	--	--	--	--	6,545	8.52	6,545	8.52
Sales Excluding Sales to Major Companies	--	--	--	--	--	--	168,359	3.19	177,994	3.17

\* All prices are computed weighted averages based on dollar and volume amounts reported, which may include or reflect out-of-period dollar or volume adjustments, restatements or revisions, or account reclassifications or provisions for pending regulatory adjustments. See Appendix A, Explanatory Note 9 for discussion of apparent anomalies.

-- Not Applicable.

Notes: (1) Two lines have been added to this table to explicitly differentiate transactions between major and nonmajor pipeline companies. Totals may not equal sum of components due to independent rounding and provisions for pending regulatory adjustments.

(2) As of January 1993, Arkla, Inc. does not meet the filing requirements for the FERC-11. Arkla Energy Resources Company (A.E.R. Co.) is a subsidiary of Arkla, Inc.. Data submitted on the FERC-11 for A.E.R. Co. will indicate less sales volumes and revenues than previous years reported by Arkla, Inc..

Source: Form FERC-11.

**Table 11. Natural and Other Gases Produced and Purchased by Major Interstate Natural Gas Pipeline Companies, 1987-1993 (Million Cubic Feet)**

Year and Month	Transported Gas*	Natural Gas Production	Manufactured Gas, Liquefied Natural Gas, Gasified Coal, and Synthetic Gas Production	Purchased Natural Gas				
				From Producers	Intracompany Transfers	Imports	From Others	Total
<b>1987 Total</b>	13,479,989	152,039	22,905	4,848,577	124,572	759,345	400,134	6,132,828
<b>1988 Total</b>	15,950,507	139,621	23,960	4,516,120	66,879	962,383	374,983	5,920,365
<b>1989 Total</b>	18,698,398	108,036	24,609	3,532,588	74,058	903,488	411,997	4,922,131
<b>1990 Total</b>	21,681,372	93,386	24,163	3,601,690	72,986	965,859	355,273	4,995,806
<b>1991</b>								
January	2,098,858	8,065	1,588	372,884	7,194	79,076	40,958	500,112
February	1,839,900	6,242	2,157	262,740	5,669	68,257	21,918	358,584
March	1,865,092	5,837	2,120	222,064	5,388	78,343	19,280	325,075
April	1,792,255	5,603	1,114	193,804	4,453	64,319	19,803	282,379
May	1,723,696	5,534	2,202	174,738	4,808	61,258	14,697	255,501
June	1,579,146	5,353	2,121	160,553	4,294	52,828	22,143	239,818
July	1,610,413	5,571	2,295	155,126	5,186	49,545	15,099	224,956
August	1,735,157	6,213	2,030	149,415	5,253	73,437	22,469	250,574
September	1,691,806	5,998	1,880	169,800	5,586	60,109	14,208	249,703
October	1,856,527	5,473	2,192	210,115	5,329	71,899	18,976	306,119
November	2,103,022	6,378	1,708	261,011	11,226	73,042	33,149	378,428
December	2,135,449	6,798	1,969	298,819	7,732	74,645	31,468	412,664
<b>Total</b>	22,031,321	73,065	23,376	2,631,069	72,118	806,558	274,168	3,783,913
<b>1992</b>								
January	2,309,478	6,645	1,855	251,382	8,000	64,855	38,728	362,965
February	2,159,190	6,079	2,070	205,682	7,942	63,868	24,895	302,187
March	2,183,665	6,156	2,303	148,181	8,643	68,723	19,804	245,351
April	2,107,984	6,796	2,208	164,991	5,813	59,849	21,858	252,511
May	1,979,257	6,969	2,304	170,687	5,935	67,619	19,859	264,100
June	1,888,212	5,243	2,076	155,643	4,803	56,782	20,169	237,397
July	1,897,266	5,675	1,989	156,145	5,106	65,557	23,342	250,150
August	1,888,726	6,146	2,045	166,766	5,429	84,829	18,715	275,739
September	1,807,555	6,249	2,006	175,857	5,288	74,569	6,869	262,563
October	1,985,780	6,352	2,209	192,808	5,380	71,677	20,536	290,401
November	2,144,328	6,503	2,195	218,189	9,938	71,100	24,967	324,194
December	2,194,128	6,604	2,633	247,161	10,494	79,706	45,325	382,686
<b>Total</b>	24,545,579	75,417	25,893	2,253,492	82,751	829,134	284,867	3,450,244
<b>1993</b>								
January	2,334,905	6,430	2,335	203,273	5,475	76,801	7,912	293,461
February	2,163,229	6,047	2,102	160,616	5,238	70,472	9,394	245,720
March	2,214,880	6,310	2,460	171,111	5,563	71,018	11,065	258,757
April	1,976,998	5,532	2,233	164,581	4,796	75,589	1,134	246,100
May	1,934,569	5,578	894	162,910	5,037	63,140	5,158	236,245

\* Gas transported for other companies through the production, transmission, or distribution lines or compressor stations of the reporting pipelines.

† Includes out-of-period adjustments to correct data in prior month.

R = Revised Data.

NA = Not Available.

Notes: (1) Previously published manufactured gas is now summarized with liquefied natural gas, gasified coal, and synthetic gas production. Also, the summaries presented in this table are exclusive of transactions between major pipeline companies in the computation of total pipeline activities to eliminate double counting. See Appendix A, Explanatory Note 9 for discussion of major interstate pipeline companies. Totals may not equal sum of components because of independent rounding.

(2) As of January 1993, Arkla, Inc. does not meet the filing requirements for the FERC-11. Arkla Energy Resources Company (A.E.R. Co.) is a subsidiary of Arkla, Inc.. Data submitted on the FERC-11 for A.E.R. Co. will indicate less sales volumes and revenues than previous years reported by Arkla, Inc.

Source: Form FERC-11.

**Table 12. Natural and Other Gases Produced and Purchased by Major Interstate Natural Gas Pipeline Companies, May 1993**  
(Million Cubic Feet)

Pipeline Company	Transported Gas	Natural Gas Production	Manufactured Gas, Liquefied Natural Gas, Gasified Coal and Synthetic Gas Production	Purchased Natural Gas				
				From Producers	Intracompany Transfers	Imports	From Others	Total
Algonquin Gas	13,895	0	0	0	0	388	0	388
ANR	78,390	0	981	8,586	0	8,386	0	16,972
Arka Energy Resources Co.	43,122	0	0	3,141	0	0	177	3,318
Bear Creek Storage	0	0	0	0	0	0	0	0
Colorado Interstate	40,355	4,364	0	2,946	4,364	0	0	7,310
Columbia Gas Transm	64,525	0	0	29,082	0	0	• -82	29,000
Columbia Gulf	99,705	0	0	0	0	0	999	999
Consolidated Gas	37,725	902	0	9,891	4	0	• -24	9,871
East Tennessee	5,433	0	• -10	3,319	0	0	0	3,319
El Paso	100,670	0	0	6,530	0	0	24	6,554
Equitrans	4,326	0	0	3,727	0	0	8	3,735
Florida Gas	29,262	0	0	17	0	0	830	847
Great Lakes Gas	67,916	0	0	0	0	13	0	13
High Island Offshore	27,654	0	0	0	0	0	0	0
Iroquois Gas Transm. Sys.	20,414	0	0	0	0	0	0	0
K N Energy Inc.	8,334	0	0	4,320	0	0	1,948	6,288
Kern River Gas Trans.	20,793	0	0	0	0	0	0	0
Michigan Gas Storage	30,302	0	0	0	0	0	73	73
Midwestern	12,255	0	0	2,376	0	0	0	2,376
Mississippi River	22,162	0	0	2,995	0	0	0	2,995
Mojave Pipeline Co.	6,112	0	0	0	0	0	0	0
Mountain Fuel Res.	20,239	0	0	1,663	0	0	488	2,151
National Fuel	8,438	312	0	7,732	312	0	73	8,117
Natural Gas Pipeline	127,967	0	• -77	21,594	0	3,379	3	24,976
Northern Border	37,171	0	0	0	0	0	0	0
Northern Natural	140,374	0	0	1,216	0	0	8,810	10,026
Northwest Alaskan	0	0	0	0	0	22,430	0	22,430
Northwest Pipeline	43,788	0	0	20	0	2,871	0	2,891
Overthrust Pipeline	1,226	0	0	0	0	0	0	0
Pacific Gas Transm	11,937	0	0	0	0	23,681	0	23,681
Pacific Interstate	0	0	0	0	0	0	7,323	7,323
Panhandle Eastern	52,579	0	0	35	0	0	0	35
Sabine Pipeline Co.	22,913	0	0	0	0	0	0	0
Sea Robin Pipeline	25,156	0	0	0	0	0	0	0
Southern Natural	36,345	0	0	8,256	0	0	2	8,258
Stingray Pipeline	20,824	0	0	0	0	0	0	0
Tenneco, Inc.	120,051	0	0	9,896	0	2,380	• -408	11,868
Texas Eastern	78,316	0	0	534	0	0	• -80	454
Texas Gas Transm	54,642	0	0	4,364	0	0	62	4,426
Tribulblazer Pipeline	12,657	0	0	0	0	0	0	0
Transcontinental	173,606	0	0	13,906	0	0	1,902	15,808
Transwestern Pipeline	52,068	0	0	1,087	0	0	0	1,087
Trunkline Gas Co.	46,615	0	0	8,215	0	0	0	8,215
Trunkline LNG	0	0	0	0	0	0	0	0
U-T Offshore	10,667	0	0	0	0	0	0	0
United Gas Pipeline	45,937	0	0	0	0	0	0	0
Valero Interstate Transm	4,835	0	0	0	0	0	1,094	1,094
Viking Gas Company	8,909	0	0	0	0	0	0	0
Williams Natural	23,297	0	0	6,928	0	0	2,727	9,655
Williston Basin	5,379	0	0	534	357	0	0	881
Wyoming Interstate	15,283	0	0	0	0	0	0	0
<b>Total</b>	<b>1,934,569</b>	<b>5,578</b>	<b>894</b>	<b>162,910</b>	<b>5,037</b>	<b>63,140</b>	<b>26,337</b>	<b>257,424</b>
Purchases from Other Major Companies	--	--	--	0	0	0	21,179	21,179
Purchases Excluding Purchases from Other Major Companies	--	--	--	162,910	5,037	63,140	5,158	236,245

\* Includes out-of-period adjustments to correct data in prior month.

-- Not Applicable.

Notes: (1) Previously published manufactured gas is now summarized with liquefied natural gas, gasified coal, and synthetic gas production. Two lines have been added to this table that explicitly differentiate transactions between major and nonmajor pipeline companies. See Appendix A, Explanatory Note 9 for discussion of major interstate pipeline companies. Totals may not equal sum of components because of independent rounding.

(2) As of January 1993, Arkla, Inc. does not meet the filing requirements for the FERC-11. Arkla Energy Resources Company (A.E.R. Co.) is a subsidiary of Arkla, Inc.. Data submitted on the FERC-11 for A.E.R. Co. will indicate less sales volumes and revenues than previous years reported by Arkla, Inc..

Source: Form FERC-11.

**Table 13. Underground Natural Gas Storage - All Operators,  
1987-1993**  
(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 <sup>b</sup>	Volume	Percent	Injections	Withdrawals	Net <sup>c</sup>
<b>1987 Total<sup>a</sup></b>	3,792	2,756	6,548	7	0.3	1,887	1,881	6
<b>1988 Total<sup>a</sup></b>	3,800	2,850	6,650	94	3.4	2,174	2,244	-69
<b>1989 Total<sup>a</sup></b>	3,812	2,513	6,325	-337	-11.8	2,491	2,804	-313
<b>1990 Total<sup>a</sup></b>	3,868	3,068	6,936	555	22.1	2,433	1,934	499
<b>1991</b>								
January	3,911	2,362	6,273	92	4.1	115	659	-545
February	3,908	2,063	5,972	59	2.9	112	397	-285
March	3,895	1,912	5,806	37	2.0	129	291	-162
April	3,898	2,037	5,935	91	4.7	228	104	124
May	3,931	2,273	6,204	93	4.3	319	58	261
June	3,939	2,553	6,492	68	2.7	314	42	272
July	3,942	2,771	6,713	-20	-7	289	75	214
August	3,949	2,978	6,927	-93	-3.0	282	82	200
September	3,950	3,201	7,151	-120	-3.6	294	78	216
October	3,961	3,369	7,330	-98	-2.8	251	103	148
November	3,952	3,148	7,100	-324	-9.3	150	352	-202
December	3,954	2,824	6,778	-244	-8.0	125	448	-323
<b>Total</b>	--	--	--	--	--	2,608	2,689	-80
<b>1992</b>								
January	4,060	2,215	6,275	-147	-6.2	57	572	-515
February	4,056	1,843	5,898	-220	-10.7	53	436	-383
March	4,045	1,545	5,591	-367	-19.2	73	370	-297
April	4,037	1,572	5,609	-465	-22.8	159	140	19
May	4,043	1,847	5,889	-426	-18.8	321	50	271
June	4,049	2,151	6,200	-402	-15.7	358	40	318
July	4,063	2,458	6,521	-313	-11.3	352	52	299
August	4,060	2,759	6,820	-219	-7.3	358	62	296
September	4,055	3,046	7,101	-155	-4.8	336	52	285
October	4,063	3,220	7,283	-149	-4.4	262	80	182
November	4,059	3,052	7,111	-96	-3.1	94	267	-173
December	4,042	2,596	6,638	-228	-8.1	57	535	-478
<b>Total</b>	--	--	--	--	--	2,479	2,656	-177
<b>1993</b>								
January	4,044	2,041	6,085	-174	-7.9	45	600	-555
February	4,012	1,520	5,532	-323	-17.5	30	581	-550
March	3,991	1,235	5,226	-311	-20.1	81	385	-304
April	4,008	1,339	5,346	-233	-14.9	222	109	113
May	4,016	1,740	5,756	-107	-5.8	440	25	423
June	4,021	2,097	6,117	-55	-2.5	415	43	373

<sup>a</sup> Total as of December 31.

<sup>b</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1987, 1988, and 1989 - 8,124; 1990 - 8,125; 1991 - 7,993; and 1992 - 7,932.

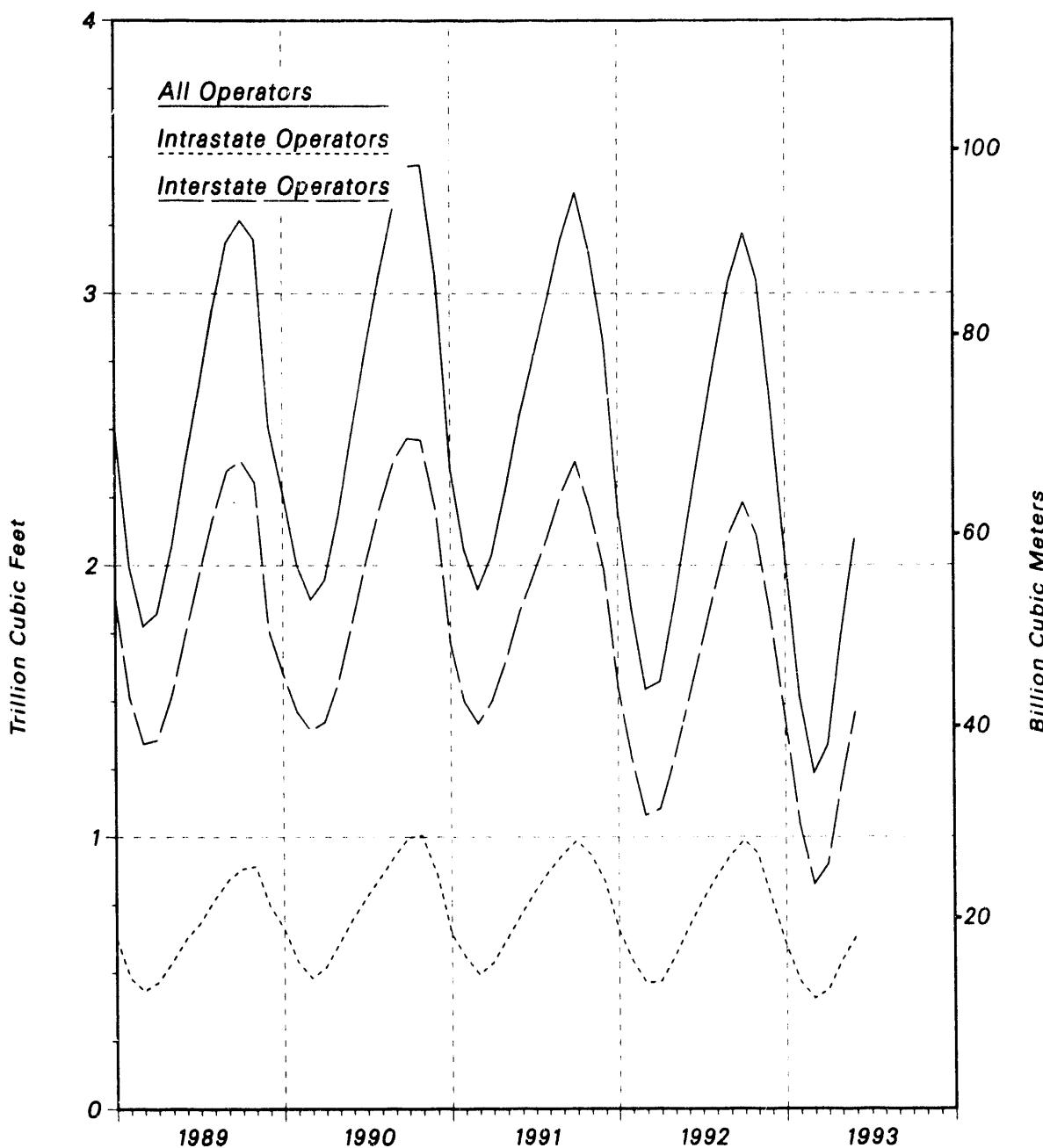
<sup>c</sup> Positive numbers indicate the volume of injections in excess of withdrawals. Negative numbers indicate the volume of withdrawals in excess of injections.

-- = Not Applicable.

Notes: Data for 1987 through 1991 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 7 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, Form FERC-8, and Form EIA-176.

Figure 5. Underground Natural Gas Storage in the United States, 1989-1993



Source: Form EIA-191, Form FERC-8, and Form EIA-176.

**Table 14. Underground Natural Gas Storage - Interstate Operators of Storage Fields, 1987-1993**  
 (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 <sup>b</sup>	Volume	Percent	Injections	Withdrawals	Net <sup>c</sup>
<b>1987 Total<sup>a</sup></b> .....	2,461	2,024	4,485	14	0.7	1,365	1,348	17
<b>1988 Total<sup>a</sup></b> .....	2,469	2,092	4,561	68	3.3	1,587	1,532	55
<b>1989 Total<sup>a</sup></b> .....	2,478	1,764	4,242	-328	-15.7	1,788	2,072	-285
<b>1990 Total<sup>a</sup></b> .....	2,496	2,203	4,699	439	24.9	1,705	1,284	421
<b>1991</b>								
January .....	2,542	1,718	4,261	114	7.1	105	481	-376
February .....	2,546	1,502	4,048	40	2.7	93	292	-199
March .....	2,535	1,418	3,952	26	1.9	109	200	-91
April .....	2,537	1,500	4,037	76	5.3	165	82	83
May .....	2,569	1,647	4,216	78	5.0	218	47	171
June .....	2,575	1,834	4,409	51	2.9	213	35	178
July .....	2,576	1,970	4,546	-39	-1.9	192	62	130
August .....	2,577	2,105	4,682	-109	-4.9	186	65	121
September .....	2,571	2,265	4,836	-122	-5.1	211	64	147
October .....	2,571	2,382	4,953	-86	-3.5	181	83	98
November .....	2,572	2,210	4,782	-253	-10.3	117	274	-157
December .....	2,571	1,985	4,556	-218	-9.9	112	328	-216
<b>Total</b> .....	--	--	--	--	--	1,902	2,013	-111
<b>1992</b>								
January .....	2,675	1,556	4,231	-162	-9.5	49	385	-335
February .....	2,671	1,295	3,966	-207	-13.8	36	306	-270
March .....	2,661	1,081	3,743	-337	-23.7	56	269	-213
April .....	2,653	1,104	3,757	-396	-26.4	111	98	14
May .....	2,659	1,285	3,945	-362	-22.0	228	40	188
June .....	2,665	1,486	4,151	-348	-19.0	243	28	215
July .....	2,678	1,695	4,375	-275	-13.9	249	36	213
August .....	2,676	1,908	4,584	-197	-9.3	254	43	210
September .....	2,670	2,115	4,785	-150	-6.6	230	29	201
October .....	2,677	2,231	4,908	-151	-6.3	181	57	123
November .....	2,673	2,111	4,784	-99	-4.5	72	197	-124
December .....	2,652	1,819	4,471	-166	-8.4	46	359	-313
<b>Total</b> .....	--	--	--	--	--	1,754	1,847	-93
<b>1993</b>								
January .....	2,654	1,438	4,092	-117	-7.5	38	416	-378
February .....	2,632	1,050	3,683	-245	-18.9	20	428	-408
March .....	2,615	827	3,442	-254	-23.5	50	285	-236
April .....	2,631	900	3,531	-203	-18.4	149	76	73
May .....	2,637	1,193	3,830	-92	-7.2	328	16	312
June .....	2,648	1,461	4,109	-25	-1.7	307	26	281

<sup>a</sup> Total as of December 31.

<sup>b</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1987, 1988, 1989, and 1990 - 5,622; 1991 - 5,512; and 1992 - 5,524.

<sup>c</sup> Positive numbers indicate the volume of injections in excess of withdrawals. Negative numbers indicate the volume of withdrawals in excess of injections.

-- = Not Applicable.

Notes: Data for 1987 through 1991 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 7 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, Form FERC-8, and EIA-176.

**Table 15. Underground Natural Gas Storage - Intrastate Operators and Independent Producers, 1987-1993**  
(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 <sup>b</sup>	Volume	Percent	Injections	Withdrawals	Net <sup>c</sup>
<b>1987 Total<sup>a</sup></b>	1,331	732	2,063	-7	0.1	522	533	-11
<b>1988 Total<sup>a</sup></b>	1,331	758	2,089	26	3.8	587	711	-124
<b>1989 Total<sup>a</sup></b>	1,335	749	2,083	-9	-1.2	705	732	-26
<b>1990 Total<sup>a</sup></b>	1,372	864	2,236	115	15.4	728	650	78
<b>1991</b>								
January	1,369	644	2,012	-21	-3.2	10	178	-168
February	1,362	562	1,924	21	3.9	19	105	-86
March	1,360	494	1,854	13	2.7	20	91	-71
April	1,361	537	1,898	16	3.1	63	22	41
May	1,362	626	1,988	16	2.6	101	11	90
June	1,364	719	2,083	18	2.6	101	7	94
July	1,366	802	2,168	21	2.7	97	13	84
August	1,372	873	2,245	17	2.0	96	17	79
September	1,379	936	2,315	3	.3	83	14	69
October	1,390	987	2,377	-11	-1.1	70	20	50
November	1,380	937	2,317	-70	-7.0	33	78	-45
December	1,383	839	2,221	-25	-2.9	13	120	-107
<b>Total</b>	--	--	--	--	--	706	675	30
<b>1992</b>								
January	1,384	660	2,044	16	2.5	8	187	-180
February	1,385	547	1,932	-15	-2.6	16	129	-113
March	1,384	464	1,848	-30	-6.1	18	101	-83
April	1,383	469	1,852	-68	-12.7	48	43	5
May	1,384	561	1,945	-65	-10.4	93	11	82
June	1,384	665	2,049	-54	-7.5	115	12	103
July	1,384	763	2,146	-39	-4.9	103	16	87
August	1,385	851	2,236	-22	-2.5	104	19	85
September	1,385	931	2,316	-5	-.5	106	23	84
October	1,386	989	2,375	2	2	81	23	58
November	1,386	941	2,327	4	.4	22	70	-48
December	1,391	776	2,167	-63	-7.5	11	176	-165
<b>Total</b>	--	--	--	--	--	725	809	-85
<b>1993</b>								
January	1,390	603	1,993	-57	-8.6	7	184	-177
February	1,380	469	1,849	-78	-14.3	10	152	-142
March	1,376	407	1,784	-57	-12.2	31	100	-68
April	1,377	438	1,815	-30	-6.5	72	33	40
May	1,380	546	1,926	-15	-2.7	120	10	110
June	1,373	635	2,008	-30	-4.5	108	17	91

<sup>a</sup> Total as of December 31.

<sup>b</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1987, 1988, and 1989 - 2,502; 1990 - 2,503; 1991 - 2,481; and 1992 - 2,407.

<sup>c</sup> Positive numbers indicate the volume of injections in excess of withdrawals. Negative numbers indicate the volume of withdrawals in excess of injections.

-- : Not Applicable.

Notes: Data for 1987 through 1991 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 7 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, Form FERC-8, and EIA-176.

**Table 16. Net Withdrawals from Underground Storage, by State, 1991-1993**  
 (Volume in Million Cubic Feet)

States	June 1993	May 1993	April 1993	March 1993	February 1993	January 1993	Total 1992
Arkansas .....	-14	824	121	478	872	633	514
California .....	-13,993	-28,519	-15,646	-6,478	17,346	37,972	38,779
Colorado .....	-4,791	-2,666	3,335	2,411	4,759	3,144	5,279
Illinois .....	-32,718	-33,698	-2,905	25,016	49,397	59,625	12,534
Indiana .....	-2,089	-1,257	-400	2,558	5,026	5,572	896
Iowa .....	-8,100	-6,824	-5,491	2,650	10,799	18,971	3,951
Kansas .....	-11,755	-24,845	-3,339	4,697	15,602	18,299	20,573
Kentucky .....	-7,842	-6,426	726	9,515	10,958	5,114	-6,415
Louisiana .....	-33,949	-28,839	-2,542	23,512	43,798	47,855	19,089
Maryland .....	-1,175	-2,217	456	1,859	4,290	3,272	-2,727
Michigan .....	-85,151	-75,304	-21,799	66,220	103,067	97,623	12,554
Minnesota .....	-344	-318	49	418	418	396	30
Mississippi .....	-4,556	-7,012	-2,489	6,098	8,450	5,963	-7,884
Missouri .....	-451	-1,049	-1,551	1,085	1,811	1,091	13
Montana .....	685	1,157	1,710	2,759	4,420	5,100	12,534
Nebraska .....	-4,278	-2,958	-975	1,010	2,009	3,344	-536
New Mexico .....	-1,221	-2,705	2,927	792	4,164	2,613	2,478
New York .....	-10,768	-10,921	-4,109	10,080	16,122	13,106	-1,972
Ohio .....	-31,681	-29,556	-3,399	38,442	45,095	38,465	15,432
Oklahoma .....	-17,825	-20,586	-12,860	8,856	21,531	23,966	12,068
Oregon .....	-1,298	-1,645	26	728	1,397	1,918	872
Pennsylvania .....	-53,535	-57,981	-18,784	56,156	100,956	71,301	-9,570
Texas .....	-8,519	-27,786	-20,217	12,415	24,323	45,306	42,041
Utah .....	-6,636	-6,666	1,015	3,702	5,057	5,873	-11,131
Washington .....	-866	-4,528	-1,002	-1,231	3,347	3,439	5,667
West Virginia .....	-27,586	-39,358	-5,511	29,813	43,205	31,863	-3,172
Wyoming .....	-2,069	-983	-500	371	2,018	3,361	8,525
Total .....	-372,526	-422,685	-112,757	303,930	550,237	555,187	177,201

See footnotes at end of table.

**Table 16. Net Withdrawals from Underground Storage, by State, 1991-1993**  
 (Volume in Million Cubic Feet)—Continued

States	December 1992	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992
Arkansas .....	624	366	196	-434	-664	-852	-509
California .....	57,233	9,582	-7,822	-16,810	-10,523	-14,805	-23,594
Colorado .....	2,741	3,104	-2,126	-5,910	-6,253	-4,128	-1,979
Illinois .....	45,607	18,594	-27,250	-34,867	-38,324	-30,630	-31,957
Indiana .....	3,615	2,362	-2,945	-5,211	-4,113	-5,143	-2,554
Iowa .....	20,511	9,164	-9,101	-10,668	-10,871	-11,369	-8,213
Kansas .....	12,865	8,734	-2,954	-10,137	-11,636	-4,315	-2,503
Kentucky .....	3,011	1,522	-10,706	-4,208	-1,618	-3,551	-1,552
Louisiana .....	35,137	5,227	-21,407	-17,253	-14,268	-14,985	-19,697
Maryland .....	2,062	-670	-1,203	-2,046	-2,387	-1,817	
Michigan .....	88,834	49,062	-28,398	-68,572	-68,347	-74,813	-68,179
Minnesota .....	203	8	4	-126	-179	-298	-306
Mississippi .....	6,581	639	-1,266	-6,351	-580	-4,621	-8,393
Missouri .....	7	8	-191	-208	-218	-266	-146
Montana .....	5,601	3,347	1,357	280	-766	-1,026	-714
Nebraska .....	3,428	2,445	309	-1,175	-1,195	-2,096	-2,627
New Mexico .....	-412	1,038	-2,550	-1,169	-1,945	2,099	-541
New York .....	11,193	3,034	-3,663	-6,893	-10,102	-11,167	-9,525
Ohio .....	30,849	5,163	-11,241	-15,372	-22,490	-28,068	-29,257
Oklahoma .....	30,668	17,279	-7,563	-12,628	-3,748	-17,423	-11,028
Oregon .....	579	1,100	-173	-453	-1,010	-1,194	-1,540
Pennsylvania .....	50,184	-2,767	-25,705	-42,447	-43,351	-36,750	-51,775
Texas .....	36,120	20,304	-4,792	-3,151	-15,964	-7,532	-12,751
Utah .....	6,778	5,472	-1,274	-3,120	-4,672	-3,519	-2,767
Washington .....		947	760	-1,196	-1,458	-1,024	-1,175
West Virginia .....	17,129	6,001	-13,026	-13,599	-18,825	-19,009	-21,165
Wyoming .....	3,532	1,787	1,046	-865	-122	-1,185	-611
Total .....	478,478	172,854	-181,684	-284,588	-295,632	-299,488	-317,735

See footnotes at end of table.

**Table 16. Net Withdrawals from Underground Storage, by State, 1991-1993**  
 (Volume in Million Cubic Feet)—Continued

States	May 1992	April 1992	March 1992	February 1992	January 1992	Total 1991	December 1991
Arkansas .....	16	159	443	519	652	1,966	664
California .....	-14,898	-14,858	15,757	16,847	42,671	-12,276	24,681
Colorado .....	366	4,153	6,683	2,777	5,850	-7,370	598
Illinois .....	-33,582	7,747	26,551	47,569	63,076	978	34,113
Indiana .....	-1,197	508	4,126	4,627	6,820	926	4,626
Iowa .....	-8,918	-2,557	3,539	12,653	19,780	5,207	13,739
Kansas .....	-2,263	5,009	9,422	13,125	5,226	-10,822	-2,317
Kentucky .....	1,230	1,684	4,884	1,255	1,634	1,397	2,686
Louisiana .....	-21,100	-332	13,228	28,814	45,726	24,989	30,577
Maryland .....	-3,281	992	1,229	3,535	3,535	-1,852	1,070
Michigan .....	-45,023	287	65,658	75,640	86,407	39,200	74,384
Minnesota .....	-390	209	328	129	449	-267	53
Mississippi .....	-4,244	-415	1,397	276	9,093	5,884	6,130
Missouri .....	-427	-1,570	330	1,198	1,497	-1,117	12
Montana .....	-1,517	-131	484	2,207	3,412	9,737	3,548
Nebraska .....	-1,620	-609	42	1,032	1,529	-229	2,362
New Mexico .....	95	2,396	735	711	2,020	-3,694	-1,002
New York .....	-10,121	-2,778	12,207	14,323	11,520	-11,619	7,125
Ohio .....	-25,866	-2,247	35,661	34,823	43,476	-431	27,910
Oklahoma .....	-7,929	-5,550	3,439	8,621	17,930	12,139	11,502
Oregon .....	-1,572	443	1,586	1,540	1,568	-566	487
Pennsylvania .....	-40,168	-5,385	53,322	64,308	70,963	11,335	37,591
Texas .....	-18,774	-3,333	5,213	14,001	32,700	-6,398	9,801
Utah .....	-3,507	-1,837	-240	422	3,912	9,976	7,418
Washington .....	-1,351	877	581	2,979	1,930	-3,200	458
West Virginia .....	-24,447	-1,697	20,154	26,933	29,380	16,888	22,834
Wyoming .....	-365	76	868	2,041	2,323	-426	1,941
<b>Total</b> .....	<b>-270,853</b>	<b>-18,760</b>	<b>296,626</b>	<b>382,906</b>	<b>515,077</b>	<b>80,355</b>	<b>322,991</b>

See footnotes at end of table.

**Table 16. Net Withdrawals from Underground Storage, by State, 1991-1993**  
 (Volume in Million Cubic Feet)—Continued

States	November 1991	October 1991	September 1991	August 1991	July 1991	June 1991
Arkansas .....	629	0	0	-14	-487	-339
California .....	6,113	879	1,455	-3,416	-13,136	-23,367
Colorado .....	-1,468	-1,759	-5,275	-4,430	-4,200	-3,831
Illinois .....	17,558	-26,390	-32,897	-34,057	-28,745	-29,798
Indiana .....	-802	-4,105	-4,467	-3,797	-2,813	-1,016
Iowa .....	4,997	-10,757	-10,675	-6,433	-5,100	-8,983
Kansas .....	8,913	-10,235	-10,203	-6,977	-2,559	-7,261
Kentucky .....	6,590	460	-3,437	-3,162	-5,327	-3,297
Louisiana .....	12,743	-23,315	-18,632	-6,029	-11,877	-22,117
Maryland .....	-334	-800	-2,084	-2,061	-1,392	-1,590
Michigan .....	56,578	-32,872	-27,703	-46,233	-58,225	-57,062
Minnesota .....	77	32	-93	4	-291	-312
Mississippi .....	7,864	-3,107	-5,101	-2,102	-2,054	-3,178
Missouri .....	-199	-219	-212	-302	-295	-89
Montana .....	2,875	1,379	-120	-1,438	-1,711	-1,235
Nebraska .....	402	154	-901	167	253	-2,128
New Mexico .....	147	9	-2,642	1,960	-1,031	-2,998
New York .....	3,662	-5,237	-8,681	-8,498	-9,006	-7,492
Ohio .....	12,644	-9,113	-16,055	-17,817	-16,173	-20,435
Oklahoma .....	26,655	-4,702	-10,249	-4,757	-1,095	-10,455
Oregon .....	-23	-339	-674	-1,092	-1,458	-1,554
Pennsylvania .....	10,030	-13,835	-34,526	-29,625	-19,127	-24,209
Texas .....	8,300	-856	-10,004	-4,559	-2,660	-12,883
Utah .....	5,792	-560	-3,940	-3,813	-6,010	-5,548
Washington .....	-1,040	1,040	5	60	-2,138	-2,716
West Virginia .....	11,077	-3,606	-8,516	-9,816	-15,495	-16,310
Wyoming .....	1,809	-54	-761	-1,628	-2,068	-1,849
<b>Total .....</b>	<b>201,590</b>	<b>-147,908</b>	<b>-216,387</b>	<b>-199,864</b>	<b>-214,221</b>	<b>-272,052</b>

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 for 1991 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.

Source: Form EIA-191.

**Table 17. Activities of Underground Natural Gas Storage Operators,  
by State, June 1993**  
(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
Arkansas	31,278	17,897	4,969	22,866	-1,041	-17.3	272	259
California	472,109	247,950	152,044	399,994	-4,043	-2.6	17,117	3,124
Colorado	105,790	45,210	25,079	70,289	5,266	26.6	4,852	61
Illinois	949,982	573,802	196,651	770,452	-1,203	-.6	35,208	2,490
Indiana	106,177	71,139	20,053	91,192	2,105	11.7	2,731	642
Iowa	279,700	154,574	71,219	225,793	557	.8	9,571	1,471
Kansas	291,058	189,147	58,448	247,595	4,747	8.8	12,324	569
Kentucky	210,242	105,481	80,245	185,725	3,383	4.4	7,864	23
Louisiana	539,200	251,621	107,363	358,984	-17,577	-14.1	36,805	2,856
Maryland	62,400	46,677	6,437	53,114	-722	-10.1	1,470	295
Michigan	1,043,782	420,299	308,056	728,355	15,540	5.3	85,321	170
Minnesota	7,000	4,655	1,485	6,140	-230	-13.4	344	0
Mississippi	114,627	48,049	46,820	94,869	71	2	7,803	3,247
Missouri	30,564	21,600	8,001	29,601	-.69	-.9	462	11
Montana	375,010	169,892	86,048	255,940	-24,811	-22.4	889	1,574
Nebraska	93,312	27,312	55,337	82,649	-1,058	-1.9	4,318	40
New Mexico	94,600	30,426	9,416	39,842	-2,953	-23.9	2,562	1,341
New York	167,835	102,978	41,858	144,835	-3,859	-8.4	11,598	829
Ohio	591,494	357,113	75,082	432,195	-20,579	-21.5	31,978	296
Oklahoma	359,616	176,750	122,565	299,316	-5,940	-4.6	18,166	340
Oregon	11,445	3,291	4,949	8,240	-.374	-7.0	1,298	0
Pennsylvania	664,855	359,349	187,940	547,289	.138	.1	55,725	2,190
Texas	598,783	161,904	269,041	430,944	-29,592	-9.9	28,772	20,254
Utah	114,980	51,028	14,321	65,349	-.660	-4.4	6,654	18
Washington	34,100	18,800	10,357	29,157	-497	-4.6	1,173	307
West Virginia	519,286	304,385	111,554	415,939	36,245	48.1	27,895	309
Wyoming	105,669	59,382	21,313	80,696	-7,109	-25.0	2,300	231
Total	7,974,893	4,020,709	2,096,651	6,117,359	-54,543	-2.5	415,474	42,948

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.

Source: Form EIA-191.

**Table 18. Natural Gas Deliveries to Residential Consumers by State, 1991-1993**

(Million Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	May 1993	April 1993	March 1993
Alabama .....	33,407	31,293	28,300	2,839	5,647	8,684
Alaska .....	7,867	7,832	7,420	891	1,288	1,471
Arizona .....	17,127	18,334	19,705	1,294	2,171	4,066
Arkansas .....	29,203	24,934	25,120	2,255	4,966	6,730
California .....	269,792	251,956	276,400	29,407	36,246	50,586
Colorado .....	65,620	55,860	60,997	6,472	9,846	14,948
Connecticut .....	26,018	25,606	22,484	1,921	3,989	6,171
Delaware .....	5,629	5,354	4,749	447	1,016	1,483
District of Columbia .....	10,813	10,492	9,619	817	1,624	2,838
Florida .....	7,876	8,390	6,818	959	1,474	1,917
Georgia .....	65,333	58,518	51,607	4,445	9,284	15,548
Hawaii .....	247	241	246	44	48	52
Idaho .....	7,635	5,292	6,279	689	1,040	1,699
Illinois .....	289,037	265,877	260,102	18,271	42,452	67,962
Indiana .....	102,508	88,989	86,368	6,396	18,591	23,916
Iowa .....	50,961	42,869	46,704	3,460	7,618	11,613
Kansas .....	56,102	41,629	46,992	4,736	9,179	12,859
Kentucky .....	38,455	34,956	33,676	1,917	5,012	9,241
Louisiana .....	33,484	32,048	31,510	2,949	5,584	7,945
Maine .....	522	547	427	38	71	115
Maryland .....	46,750	44,859	40,276	3,418	6,595	12,215
Massachusetts .....	75,844	75,457	65,006	7,283	13,205	18,299
Michigan .....	222,548	214,435	202,685	18,067	34,718	54,009
Minnesota .....	73,460	64,478	67,253	5,388	10,757	16,334
Mississippi .....	17,538	15,895	15,387	1,453	2,936	4,360
Missouri .....	89,581	69,519	75,532	7,479	13,437	21,536
Montana .....	11,383	8,610	10,588	997	1,674	2,591
Nebraska .....	33,596	23,462	26,621	2,252	4,864	7,316
Nevada .....	12,354	10,711	11,631	1,087	1,503	2,715
New Hampshire .....	4,208	4,217	3,604	349	721	1,009
New Jersey .....	125,566	121,221	107,121	8,744	19,991	31,606
New Mexico .....	19,550	19,040	18,843	1,697	2,795	4,021
New York .....	238,786	235,962	207,970	20,560	39,121	60,311
North Carolina .....	31,515	27,102	23,874	1,974	5,025	8,015
North Dakota .....	6,693	5,699	6,331	568	1,082	1,462
Ohio .....	212,323	202,679	191,718	13,762	32,070	52,407
Oklahoma .....	51,193	39,455	42,844	3,915	8,038	12,158
Oregon .....	18,507	14,485	16,504	1,769	2,533	3,844
Pennsylvania .....	163,789	162,172	146,937	10,969	24,905	42,213
Rhode Island .....	13,025	12,721	10,796	1,117	2,200	3,291
South Carolina .....	16,115	14,227	12,301	943	2,522	4,206
South Dakota .....	7,512	6,020	6,551	606	1,153	1,678
Tennessee .....	36,533	32,102	30,566	2,274	5,606	9,586
Texas .....	128,919	118,501	124,002	6,781	17,544	27,551
Utah .....	30,982	25,595	30,630	3,055	4,375	6,589
Vermont .....	1,700	1,653	1,394	138	271	433
Virginia .....	40,850	38,264	32,624	2,413	5,809	10,370
Washington .....	32,153	23,983	28,126	3,191	4,766	6,815
West Virginia .....	21,896	22,095	20,176	1,594	3,530	5,718
Wisconsin .....	77,656	71,645	72,084	5,557	12,524	18,077
Wyoming .....	6,985	5,584	7,291	747	1,075	1,526
Total .....	2,987,145	2,742,867	2,682,790	230,394	454,491	702,104

See footnote at end of table.

**Table 18. Natural Gas Deliveries to Residential Consumers by State, 1991-1993  
(Continued)  
(Million Cubic Feet)**

State	February 1993	January 1993	Total 1992	December 1992	November 1992	October 1992
Alabama .....	8,158	8,080	49,512	7,211	3,406	1,730
Alaska .....	2,138	2,079	14,350	1,682	1,442	1,209
Arizona .....	4,108	5,488	30,731	5,536	1,706	1,082
Arkansas .....	7,118	8,133	40,566	6,254	3,116	1,503
California .....	66,004	87,549	479,385	75,241	37,280	24,428
Colorado .....	15,899	18,455	94,482	15,673	7,588	3,538
Connecticut .....	7,302	6,635	42,201	5,828	3,859	2,261
Delaware .....	1,382	1,301	8,192	1,044	628	307
District of Columbia .....	2,795	2,740	16,651	2,222	1,319	645
Florida .....	1,863	1,662	14,519	1,781	965	691
Georgia .....	18,066	17,990	108,067	18,511	12,902	5,271
Hawaii .....	51	51	552	50	42	42
Idaho .....	1,951	2,256	9,601	1,934	1,018	425
Illinois .....	74,490	85,861	475,597	77,663	54,979	28,760
Indiana .....	25,844	27,761	153,048	24,299	15,978	8,374
Iowa .....	13,087	15,181	75,190	12,881	8,385	3,740
Kansas .....	13,524	15,804	70,552	12,565	6,013	2,386
Kentucky .....	11,198	11,087	61,827	10,567	6,975	3,360
Louisiana .....	8,415	8,590	54,990	8,328	4,187	2,217
Maine .....	153	144	866	110	69	40
Maryland .....	12,765	11,756	75,120	10,558	6,850	4,035
Massachusetts .....	18,816	18,241	120,079	14,459	10,082	5,354
Michigan .....	56,815	58,939	358,339	50,233	34,183	20,799
Minnesota .....	18,653	22,331	113,811	18,582	12,884	6,463
Mississippi .....	4,352	4,437	26,502	4,237	1,930	972
Missouri .....	21,888	25,241	118,212	20,455	11,056	4,522
Montana .....	2,490	3,631	16,814	3,091	1,807	1,115
Nebraska .....	¶ 7,759	¶ 11,405	41,702	7,135	4,593	2,044
Nevada .....	3,157	3,892	18,590	3,302	1,260	747
New Hampshire .....	1,081	1,048	6,449	750	526	288
New Jersey .....	34,599	30,626	198,943	27,619	17,997	10,393
New Mexico .....	4,731	6,306	30,813	5,091	1,953	1,012
New York .....	59,675	59,119	379,196	50,193	30,756	18,634
North Carolina .....	8,131	8,370	43,172	6,922	3,510	1,818
North Dakota .....	1,522	2,059	9,689	1,472	990	457
Ohio .....	58,420	55,663	341,461	49,672	34,264	20,980
Oklahoma .....	12,487	14,596	66,042	11,585	4,741	2,245
Oregon .....	4,570	5,790	24,921	4,331	2,186	1,115
Pennsylvania .....	43,867	41,835	266,396	36,580	24,788	15,842
Rhode Island .....	3,326	3,091	20,118	2,403	1,739	891
South Carolina .....	4,229	4,216	22,354	3,777	1,747	790
South Dakota .....	1,784	2,291	10,881	1,812	1,278	607
Tennessee .....	9,019	10,049	52,189	9,078	4,450	1,876
Texas .....	35,187	41,856	215,353	35,840	20,598	8,586
Utah .....	8,044	8,918	44,704	7,957	3,844	1,802
Vermont .....	446	412	2,520	308	205	129
Virginia .....	11,517	10,741	62,837	9,458	5,589	3,329
Washington .....	7,491	9,891	42,869	7,897	4,219	2,227
West Virginia .....	5,877	5,176	33,960	3,963	2,974	1,811
Wisconsin .....	18,478	23,020	124,024	19,175	13,299	7,668
Wyoming .....	1,659	1,978	10,149	1,798	983	506
Total .....	¶ 766,381	¶ 833,775	4,699,087	719,116	439,136	241,065

See footnote at end of table.

**Table 18. Natural Gas Deliveries to Residential Consumers by State, 1991-1993  
(Continued)  
(Million Cubic Feet)**

State	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992
Alabama .....	1,374	1,312	1,413	1,774	2,717	5,017
Alaska .....	643	438	474	628	1,012	1,346
Arizona .....	942	882	1,025	1,225	1,306	2,503
Arkansas .....	1,090	1,118	1,188	1,363	1,845	3,808
California .....	21,963	22,034	22,390	24,094	28,414	37,300
Colorado .....	2,637	2,432	2,802	3,952	4,992	8,766
Connecticut .....	1,150	990	1,120	1,387	2,406	4,264
Delaware .....	183	179	196	301	528	947
District of Columbia .....	448	422	471	632	952	1,827
Florida .....	641	632	679	739	943	1,351
Georgia .....	3,203	2,974	3,162	3,527	4,706	7,341
Hawaii .....	43	42	45	46	47	46
Idaho .....	272	182	232	245	442	725
Illinois .....	13,769	11,177	10,399	12,972	22,505	40,778
Indiana .....	3,966	3,317	3,489	4,634	7,596	14,115
Iowa .....	1,893	1,674	1,552	2,195	3,349	6,886
Kansas .....	1,772	1,714	1,903	2,570	3,733	6,816
Kentucky .....	1,406	1,411	1,322	1,829	2,619	4,171
Louisiana .....	1,981	1,938	2,034	2,256	2,789	4,513
Maine .....	17	22	24	36	66	95
Maryland .....	2,025	2,067	2,151	2,575	4,004	7,081
Massachusetts .....	3,378	3,214	3,463	4,671	8,335	13,267
Michigan .....	9,410	8,632	8,750	11,895	21,488	36,323
Minnesota .....	3,027	2,530	2,708	3,137	5,147	10,413
Mississippi .....	838	801	872	957	1,279	2,457
Missouri .....	3,064	2,780	2,996	3,819	5,830	10,991
Montana .....	733	424	489	546	844	1,383
Nebraska .....	1,104	990	1,054	1,321	2,034	3,787
Nevada .....	624	543	690	714	825	1,432
New Hampshire .....	151	139	159	219	461	766
New Jersey .....	5,351	4,930	5,251	6,181	11,709	20,261
New Mexico .....	871	835	911	1,099	1,484	2,669
New York .....	10,011	9,652	10,514	13,473	23,835	41,551
North Carolina .....	821	769	879	1,352	2,270	4,552
North Dakota .....	285	214	260	311	613	1,002
Ohio .....	8,131	7,255	8,118	10,362	17,318	31,421
Oklahoma .....	1,782	1,719	1,956	2,559	3,232	5,985
Oregon .....	710	577	669	847	1,369	2,074
Pennsylvania .....	6,945	5,898	6,130	8,041	13,978	26,222
Rhode Island .....	534	423	636	771	1,461	2,298
South Carolina .....	408	385	423	596	1,032	2,291
South Dakota .....	318	256	267	324	643	1,004
Tennessee .....	1,094	1,046	1,114	1,430	2,175	4,834
Texas .....	7,645	7,492	8,013	8,678	10,289	14,656
Utah .....	1,321	1,255	1,406	1,524	1,986	3,184
Vermont .....	53	49	53	72	145	284
Virginia .....	1,477	1,416	1,505	1,800	3,290	5,922
Washington .....	1,306	954	907	1,377	2,366	3,721
West Virginia .....	781	630	652	1,054	1,980	3,850
Wisconsin .....	3,245	2,675	2,617	3,700	6,405	11,974
Wyoming .....	330	255	296	396	563	874
Total .....	137,170	125,699	131,830	162,205	251,353	431,143

See footnote at end of table.

**Table 18. Natural Gas Deliveries to Residential Consumers by State, 1991-1993  
(Continued)  
(Million Cubic Feet)**

State	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Alabama .....	5,495	9,278	8,786	46,149	6,396	3,886
Alaska .....	1,764	1,933	1,777	13,562	1,691	1,356
Arizona .....	3,902	4,566	6,057	31,353	4,664	1,895
Arkansas .....	5,433	6,689	7,158	40,639	5,481	3,895
California .....	46,844	61,552	77,846	508,697	67,035	39,238
Colorado .....	11,584	14,362	16,155	97,440	14,007	8,076
Connecticut .....	5,751	6,541	6,644	37,181	5,209	3,433
Delaware .....	1,158	1,417	1,303	7,189	892	547
District of Columbia .....	2,180	2,840	2,694	15,286	2,001	1,220
Florida .....	1,507	2,364	2,225	12,908	1,677	1,130
Georgia .....	12,856	14,495	19,119	96,662	15,812	12,479
Hawaii .....	48	50	51	545	46	44
Idaho .....	941	1,353	1,832	10,223	1,559	1,088
Illinois .....	59,216	63,042	80,337	466,970	71,109	61,099
Indiana .....	19,106	22,054	26,119	146,446	22,617	16,912
Iowa .....	8,517	11,686	12,432	78,801	12,377	8,906
Kansas .....	7,836	10,775	12,468	74,825	11,008	7,289
Kentucky .....	7,916	8,487	11,763	59,465	9,682	7,676
Louisiana .....	5,759	9,119	9,868	54,593	7,567	5,200
Maine .....	121	138	127	722	102	56
Maryland .....	9,770	11,573	12,431	69,235	9,961	6,625
Massachusetts .....	17,088	19,118	17,648	102,955	12,854	8,070
Michigan .....	47,750	52,520	56,354	337,205	49,160	33,409
Minnesota .....	14,039	15,944	18,935	117,148	18,529	14,101
Mississippi .....	2,862	4,579	4,719	25,756	3,625	2,357
Missouri .....	13,482	18,343	20,873	120,680	17,407	12,195
Montana .....	1,634	2,199	2,550	18,413	2,626	2,218
Nebraska .....	4,739	5,998	6,905	44,671	6,573	5,196
Nevada .....	2,151	2,682	3,621	19,135	2,941	1,315
New Hampshire .....	869	1,089	1,032	5,609	690	453
New Jersey .....	26,945	31,081	31,226	176,640	24,735	16,235
New Mexico .....	3,766	5,270	5,851	29,767	4,398	1,926
New York .....	53,494	59,004	58,079	338,892	46,288	29,610
North Carolina .....	5,238	7,419	7,623	37,976	5,647	3,751
North Dakota .....	1,128	1,455	1,500	10,338	1,489	1,187
Ohio .....	45,895	50,377	57,669	321,724	48,007	35,764
Oklahoma .....	7,325	10,699	12,213	69,200	10,069	6,915
Oregon .....	2,717	3,535	4,790	26,324	3,554	2,106
Pennsylvania .....	36,116	41,778	44,077	242,728	34,139	23,637
Rhode Island .....	2,802	3,128	3,031	17,366	2,186	1,436
South Carolina .....	2,645	4,064	4,196	19,612	3,122	1,969
South Dakota .....	1,212	1,509	1,652	11,218	1,595	1,434
Tennessee .....	6,026	8,803	10,264	49,358	7,616	5,085
Texas .....	21,275	32,042	40,239	222,200	32,840	23,812
Utah .....	4,870	7,133	8,422	50,572	7,841	4,293
Vermont .....	367	426	431	2,203	314	187
Virginia .....	8,005	10,172	10,876	54,199	7,782	5,473
Washington .....	4,699	5,942	7,256	46,222	6,336	4,403
West Virginia .....	4,430	5,941	5,895	32,558	4,718	3,207
Wisconsin .....	15,819	17,407	20,041	124,081	18,803	14,481
Wyoming .....	1,053	1,371	1,723	11,992	1,665	1,179
Total .....	578,144	695,342	786,885	4,555,631	658,445	459,452

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.

**Table 19. Natural Gas Deliveries to Commercial Consumers by State, 1991-1993**

(Million Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	May 1993	April 1993	March 1993
Alabama .....	14,679	13,907	12,891	1,542	2,533	3,586
Alaska .....	10,318	10,636	10,588	1,442	1,864	2,052
Arizona .....	13,323	14,139	14,586	1,864	2,423	2,958
Arkansas .....	17,330	16,685	14,915	1,535	2,913	3,984
California .....	125,835	132,344	131,679	19,525	19,735	23,433
Colorado .....	42,568	37,413	41,206	4,340	6,568	9,531
Connecticut .....	17,895	17,293	15,694	1,430	2,874	4,286
Delaware .....	3,242	3,051	2,561	281	569	850
District of Columbia .....	9,559	9,555	9,086	1,138	1,534	2,144
Florida .....	19,331	19,520	17,771	3,314	3,820	4,019
Georgia .....	30,969	28,187	26,534	3,063	4,807	7,674
Hawaii .....	899	905	899	168	177	179
Idaho .....	6,205	4,654	5,541	569	833	1,302
Illinois .....	114,706	105,508	105,747	7,665	17,422	27,391
Indiana .....	46,918	40,241	39,413	2,847	8,281	10,961
Iowa .....	29,422	24,530	26,743	2,024	4,296	6,728
Kansas .....	31,917	24,451	30,701	2,933	5,102	7,151
Kentucky .....	20,766	19,091	18,180	1,327	2,925	5,183
Louisiana .....	13,791	13,602	13,424	1,758	2,398	3,105
Maine .....	1,311	1,327	1,064	107	192	291
Maryland .....	24,747	24,012	21,017	2,093	3,741	6,180
Massachusetts .....	35,114	34,581	31,421	3,813	5,977	8,544
Michigan .....	107,157	102,152	99,478	8,946	18,061	25,301
Minnesota .....	49,399	45,248	47,413	3,555	7,212	11,289
Mississippi .....	11,281	9,818	9,444	1,100	1,769	2,675
Missouri .....	42,044	34,543	37,181	4,167	6,388	9,879
Montana .....	7,775	5,812	7,208	686	1,144	1,751
Nebraska .....	20,871	15,490	16,909	1,435	3,058	4,508
Nevada .....	9,083	8,344	8,956	1,345	1,318	2,023
New Hampshire .....	3,786	3,611	3,040	294	612	912
New Jersey .....	77,546	75,721	67,888	7,197	13,341	19,219
New Mexico .....	14,648	13,629	14,366	1,741	2,347	2,834
New York .....	118,240	124,346	106,955	11,200	20,341	28,599
North Carolina .....	20,646	19,226	18,142	1,784	3,284	5,012
North Dakota .....	6,132	5,413	6,041	477	926	1,340
Ohio .....	98,287	93,861	89,084	6,342	14,936	25,384
Oklahoma .....	24,855	19,735	23,178	2,054	3,732	5,889
Oregon .....	13,761	10,303	12,901	1,447	1,926	2,877
Pennsylvania .....	77,028	75,977	72,047	5,746	11,788	19,653
Rhode Island .....	5,162	4,829	4,207	430	908	1,327
South Carolina .....	8,885	8,592	8,073	980	1,467	2,141
South Dakota .....	6,223	4,841	5,299	532	996	1,346
Tennessee .....	29,430	25,997	26,023	2,617	4,626	7,318
Texas .....	93,826	76,813	88,831	12,350	16,820	18,810
Utah .....	12,220	9,944	12,536	1,075	1,605	2,695
Vermont .....	1,388	1,389	1,196	124	199	350
Virginia .....	29,030	26,511	23,954	2,729	4,671	7,012
Washington .....	25,041	19,872	23,264	2,801	4,175	5,209
West Virginia .....	12,563	12,202	11,343	1,157	1,987	3,218
Wisconsin .....	46,515	41,971	40,552	3,413	7,204	10,773
Wyoming .....	5,049	4,060	5,396	553	767	1,104
Total .....	1,608,718	1,493,690	1,482,563	153,059	258,591	371,982

See footnote at end of table.

**Table 19. Natural Gas Deliveries to Commercial Consumers by State, 1991-1993  
(Continued)  
(Million Cubic Feet)**

State	February 1993	January 1993	Total 1992	December 1992	November 1992	October 1992
Alabama .....	3,536	3,483	24,951	3,263	1,967	1,311
Alaska .....	2,472	2,488	21,299	2,390	1,928	1,790
Arizona .....	2,821	3,257	27,842	3,414	2,023	1,754
Arkansas .....	4,159	4,739	25,832	3,667	2,064	1,212
California .....	33,803	29,338	285,804	28,780	21,029	19,149
Colorado .....	10,235	11,894	66,308	10,285	5,581	3,074
Connecticut .....	4,816	4,490	29,547	3,826	2,592	1,545
Delaware .....	810	732	4,999	626	398	242
District of Columbia .....	2,414	2,328	16,165	1,929	1,107	755
Florida .....	4,009	4,169	41,895	4,125	3,522	3,078
Georgia .....	7,849	7,576	53,708	7,594	4,627	3,199
Hawaii .....	190	185	2,144	184	178	168
Idaho .....	1,684	1,817	8,971	1,564	893	467
Illinois .....	29,395	32,833	194,517	31,166	22,460	12,247
Indiana .....	11,915	12,915	72,552	12,067	8,128	4,249
Iowa .....	7,735	8,639	46,046	7,817	5,837	2,645
Kansas .....	7,669	9,061	51,966	7,235	4,899	3,049
Kentucky .....	5,596	5,734	35,485	5,494	4,070	2,230
Louisiana .....	3,237	3,293	25,669	3,141	1,923	1,463
Maine .....	364	356	2,184	282	186	115
Maryland .....	6,512	6,220	42,494	5,561	3,892	2,480
Massachusetts .....	8,627	8,152	60,720	6,779	5,288	3,552
Michigan .....	27,087	27,761	173,448	24,021	16,208	9,743
Minnesota .....	12,781	14,562	81,208	11,722	9,509	5,073
Mississippi .....	2,944	2,794	18,328	2,534	1,462	947
Missouri .....	10,244	11,366	59,573	9,195	5,131	2,615
Montana .....	1,715	2,480	11,606	2,103	1,276	813
Nebraska .....	4,709	7,160	34,824	4,953	4,000	2,535
Nevada .....	2,118	2,280	16,226	2,172	1,031	990
New Hampshire .....	974	994	5,866	715	515	295
New Jersey .....	20,061	17,728	131,106	16,440	10,997	7,117
New Mexico .....	3,459	4,266	27,073	4,137	2,276	1,675
New York .....	29,381	28,719	219,655	26,740	16,889	12,967
North Carolina .....	5,196	5,370	35,303	4,760	2,885	2,051
North Dakota .....	1,478	1,912	9,756	1,549	1,015	576
Ohio .....	26,552	25,073	158,637	23,534	14,908	8,967
Oklahoma .....	6,128	7,052	34,894	5,597	2,603	1,452
Oregon .....	3,367	4,144	19,514	3,157	1,647	1,102
Pennsylvania .....	20,667	19,175	131,483	18,000	12,471	8,233
Rhode Island .....	1,358	1,139	8,479	949	546	345
South Carolina .....	2,098	2,199	16,480	2,063	1,328	994
South Dakota .....	1,499	1,850	9,183	1,476	1,104	558
Tennessee .....	7,548	7,321	45,472	5,658	3,950	2,361
Texas .....	21,203	24,643	168,754	20,338	16,093	10,359
Utah .....	3,308	3,537	16,581	3,120	1,329	545
Vermont .....	368	347	2,319	269	211	144
Virginia .....	7,475	7,144	49,019	6,664	4,585	3,167
Washington .....	5,727	7,129	37,927	5,738	3,434	2,250
West Virginia .....	3,272	2,929	21,935	3,021	1,876	1,363
Wisconsin .....	12,112	13,012	73,452	11,289	8,124	4,384
Wyoming .....	1,199	1,425	7,470	1,265	700	404
Total .....	405,875	419,211	2,766,668	374,369	252,494	163,807

See footnote at end of table.

**Table 19. Natural Gas Deliveries to Commercial Consumers by State, 1991-1993  
(Continued)  
(Million Cubic Feet)**

State	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992
Alabama .....	1,126	1,069	1,099	1,209	1,491	2,240
Alaska .....	1,252	1,013	1,084	1,206	1,597	1,935
Arizona .....	1,601	1,504	1,654	1,754	1,620	2,584
Arkansas .....	1,024	1,019	1,058	1,103	1,349	2,091
California .....	19,282	21,738	21,269	22,213	27,256	18,415
Colorado .....	2,307	2,179	2,424	3,045	3,621	5,946
Connecticut .....	1,064	1,051	1,036	1,139	1,764	2,815
Delaware .....	164	153	167	199	310	541
District of Columbia .....	656	676	720	767	1,060	1,780
Florida .....	2,812	2,844	2,938	3,045	3,338	3,693
Georgia .....	2,461	2,502	2,542	2,597	3,099	4,366
Hawaii .....	178	173	174	184	177	183
Idaho .....	371	332	346	344	449	645
Illinois .....	6,553	5,963	5,757	4,863	8,772	17,380
Indiana .....	2,115	1,953	1,798	2,002	3,397	6,311
Iowa .....	1,434	1,258	1,100	1,426	1,875	3,878
Kansas .....	3,016	3,332	3,474	2,710	3,596	4,401
Kentucky .....	1,217	1,166	1,075	1,142	1,611	2,620
Louisiana .....	1,390	1,289	1,447	1,414	1,699	2,183
Maine .....	67	51	78	80	156	227
Maryland .....	1,615	1,586	1,553	1,784	2,390	3,805
Massachusetts .....	2,583	2,717	2,890	2,331	3,925	6,425
Michigan .....	5,452	4,980	5,004	5,889	10,359	17,653
Minnesota .....	2,633	2,303	2,245	2,476	3,606	7,509
Mississippi .....	883	880	903	900	1,008	1,495
Missouri .....	1,918	1,893	1,750	2,528	3,120	5,554
Montana .....	525	332	366	379	570	934
Nebraska .....	1,735	2,402	2,374	1,335	1,786	2,417
Nevada .....	879	831	1,024	954	1,020	1,347
New Hampshire .....	174	169	179	208	376	629
New Jersey .....	5,413	4,935	5,211	5,271	8,367	13,983
New Mexico .....	1,532	1,490	1,188	1,147	1,663	2,285
New York .....	9,695	9,577	9,419	10,023	13,654	23,218
North Carolina .....	1,635	1,546	1,524	1,678	2,145	3,217
North Dakota .....	363	262	279	298	524	937
Ohio .....	4,315	4,162	4,187	4,903	7,318	15,696
Oklahoma .....	1,245	1,292	1,424	1,546	1,788	2,927
Oregon .....	860	780	782	882	1,167	1,537
Pennsylvania .....	4,450	4,013	3,932	4,407	6,617	11,917
Rhode Island .....	398	475	444	493	682	800
South Carolina .....	869	877	817	940	1,057	1,422
South Dakota .....	325	284	291	303	460	828
Tennessee .....	1,954	1,704	1,833	2,017	2,449	4,193
Texas .....	10,101	12,207	13,220	9,624	11,448	12,962
Utah .....	405	372	410	457	642	1,155
Vermont .....	77	75	79	75	118	231
Virginia .....	1,860	2,001	2,027	2,203	3,186	4,360
Washington .....	1,719	1,505	1,578	1,830	2,350	3,195
West Virginia .....	882	839	791	960	1,214	2,030
Wisconsin .....	2,090	1,745	1,852	1,995	3,962	7,040
Wyoming .....	265	248	244	285	404	615
Total .....	118,938	119,746	121,059	122,565	167,613	246,656

See footnote at end of table.

**Table 19. Natural Gas Deliveries to Commercial Consumers by State, 1991-1993  
(Continued)  
(Million Cubic Feet)**

State	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Alabama .....	2,780	3,736	3,660	23,711	2,968	2,120
Alaska .....	2,319	2,372	2,414	20,897	2,308	1,930
Arizona .....	3,178	3,290	3,467	27,633	3,081	1,944
Arkansas .....	3,263	3,811	4,171	25,986	3,297	2,497
California .....	24,477	23,946	38,250	287,618	27,380	20,110
Colorado .....	7,673	9,417	10,757	68,953	9,496	6,098
Connecticut .....	3,905	4,334	4,376	26,838	3,396	2,396
Delaware .....	691	760	749	4,253	541	354
District of Columbia .....	2,140	2,265	2,309	15,550	1,764	1,071
Florida .....	3,829	4,313	4,358	39,271	3,954	3,520
Georgia .....	5,754	6,918	8,049	51,036	6,670	5,153
Hawaii .....	174	180	190	2,148	185	178
Idaho .....	838	1,172	1,550	9,582	1,321	942
Illinois .....	23,099	26,168	30,088	193,849	28,564	23,098
Indiana .....	8,452	10,151	11,929	68,431	10,240	7,826
Iowa .....	4,942	6,700	7,135	46,559	7,159	5,280
Kansas .....	4,205	5,651	6,598	58,571	5,538	6,075
Kentucky .....	3,918	4,759	6,184	33,700	5,161	4,197
Louisiana .....	2,653	3,613	3,454	25,461	2,843	2,347
Maine .....	312	315	318	1,860	278	152
Maryland .....	5,121	6,377	6,318	38,117	5,132	3,582
Massachusetts .....	7,950	8,402	7,878	53,189	6,027	4,048
Michigan .....	22,915	24,765	26,460	165,561	23,131	12,966
Minnesota .....	10,119	11,064	12,949	85,875	12,580	10,392
Mississippi .....	1,756	2,77	2,822	17,743	2,208	1,721
Missouri .....	6,776	8,876	10,116	63,191	8,864	6,471
Montana .....	1,104	1,471	1,733	12,848	1,791	1,559
Nebraska .....	3,015	3,892	4,380	40,291	4,037	3,468
Nevada .....	1,740	1,889	2,348	16,968	1,977	1,096
New Hampshire .....	763	931	911	5,028	643	420
New Jersey .....	16,683	19,072	17,607	121,240	16,069	9,914
New Mexico .....	2,615	3,217	3,848	24,993	3,586	1,861
New York .....	27,933	30,121	29,420	199,623	25,124	17,035
North Carolina .....	3,881	4,939	5,044	34,314	4,162	3,200
North Dakota .....	1,082	1,380	1,490	10,734	1,536	1,241
Ohio .....	20,012	24,563	26,072	150,407	21,950	15,495
Oklahoma .....	3,667	5,242	6,111	39,596	5,654	3,975
Oregon .....	1,919	2,457	3,222	22,328	2,758	1,898
Pennsylvania .....	17,307	19,564	20,572	125,549	17,451	12,251
Rhode Island .....	1,103	1,149	1,095	8,277	896	497
South Carolina .....	1,727	2,135	2,251	15,796	1,917	1,492
South Dakota .....	1,063	1,174	1,315	9,476	1,286	1,176
Tennessee .....	5,200	6,816	7,338	45,955	6,159	4,305
Texas .....	14,294	16,843	21,266	181,760	20,713	17,299
Utah .....	1,866	2,951	3,330	19,282	2,704	1,635
Vermont .....	320	354	366	2,058	284	188
Virginia .....	5,749	6,432	6,783	44,077	5,701	3,855
Washington .....	3,874	4,862	5,592	41,805	5,065	3,807
West Virginia .....	2,730	3,056	3,173	21,037	2,766	2,168
Wisconsin .....	9,335	10,165	11,469	71,539	10,941	8,568
Wyoming .....	756	993	1,292	9,105	1,234	873
Total .....	312,985	361,861	404,575	2,729,668	350,493	255,746

R = Revised Data.

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Deliveries for total year 1991 may not equal the sum of the twelve months. Gas volumes delivered for use as vehicle fuel are included in the annual total but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857.

**Table 20. Natural Gas Deliveries to Industrial Consumers by State,  
1991-1993  
(Million Cubic Feet)**

State	YTD 1993	YTD 1992	YTD 1991	May 1993	April 1993	March 1993
Alabama .....	75,678	70,834	64,104	13,742	14,936	15,876
Alaska .....	32,425	34,405	31,369	5,903	6,218	6,255
Arizona .....	8,798	8,402	8,400	1,679	1,867	1,979
Arkansas .....	46,746	51,225	45,355	8,438	8,867	10,181
California .....	180,374	206,467	251,104	36,459	34,133	38,195
Colorado .....	37,472	19,363	25,723	7,283	7,333	7,182
Connecticut .....	17,449	16,408	13,870	2,737	3,176	3,903
Delaware .....	8,418	7,270	7,184	1,632	1,726	1,776
District of Columbia .....	0	0	0	0	0	0
Florida .....	40,347	35,925	36,923	8,224	7,930	8,376
Georgia .....	68,705	73,938	70,475	13,412	13,607	14,050
Hawaii .....	0	0	0	0	0	0
Idaho .....	12,858	11,740	11,688	2,272	2,383	2,759
Illinois .....	143,165	140,188	136,872	21,652	24,082	31,780
Indiana .....	116,499	106,035	99,828	19,605	21,203	25,475
Iowa .....	43,211	42,257	40,312	7,763	7,845	9,430
Kansas .....	51,473	51,114	53,631	9,467	9,353	10,179
Kentucky .....	33,847	33,484	30,951	5,317	6,089	7,381
Louisiana .....	373,022	472,632	383,865	69,904	75,503	75,882
Maine .....	636	880	935	80	142	136
Maryland .....	20,604	22,094	21,180	3,862	3,629	4,626
Massachusetts .....	21,647	22,400	23,919	4,384	4,088	4,441
Michigan .....	145,044	141,281	122,214	24,736	27,466	31,945
Minnesota .....	40,109	42,945	41,157	6,228	7,067	8,809
Mississippi .....	46,870	49,508	43,015	8,978	9,606	9,623
Missouri .....	27,343	26,637	25,558	4,166	4,922	5,986
Montana .....	5,138	4,765	4,324	753	928	1,189
Nebraska .....	13,023	10,513	11,067	2,290	3,647	2,743
Nevada .....	9,229	2,712	2,798	2,036	2,754	1,483
New Hampshire .....	1,689	1,662	1,522	375	366	325
New Jersey .....	81,734	67,934	43,089	14,283	16,500	16,846
New Mexico .....	7,200	8,527	8,211	1,314	1,532	1,416
New York .....	66,321	63,946	53,087	10,943	12,742	14,533
North Carolina .....	40,426	40,383	35,465	7,654	8,128	8,683
North Dakota .....	2,774	2,682	2,075	467	504	582
Ok. ....	137,713	132,894	123,415	22,163	26,109	30,705
Oklahoma .....	75,962	77,668	76,355	14,491	14,612	15,378
Oregon .....	26,238	28,977	23,349	5,009	5,329	5,457
Pennsylvania .....	112,629	111,279	103,675	19,227	21,172	24,911
Rhode Island .....	15,702	16,217	9,082	3,271	3,093	3,130
South Carolina .....	39,478	39,959	34,778	7,380	7,989	8,761
South Dakota .....	2,145	2,065	2,174	346	364	459
Tennessee .....	52,325	53,660	50,332	10,149	9,423	10,450
Texas .....	701,375	799,166	683,861	132,008	143,919	142,528
Utah .....	23,328	20,515	17,791	3,516	3,961	4,589
Vermont .....	925	904	771	159	173	191
Virginia .....	39,003	31,228	25,214	5,065	7,327	8,191
Washington .....	40,520	35,420	33,764	7,582	7,503	8,979
West Virginia .....	20,398	18,022	16,888	3,808	3,994	4,452
Wisconsin .....	63,654	59,316	60,695	8,747	11,926	13,829
Wyoming .....	19,146	20,252	13,310	4,168	3,925	2,995
Total .....	3,190,811	3,338,099	3,026,727	575,127	621,088	669,031

See footnotes at end of table

**Table 20. Natural Gas Deliveries to Industrial Consumers by State,  
1991-1993 (Continued)**  
(Million Cubic Feet)

State	February 1993	January 1993	Total 1992	December 1992	November 1992	October 1992
Alabama .....	15,204	15,920	169,019	14,861	14,735	13,959
Alaska .....	6,295	7,754	80,897	7,882	7,333	7,806
Arizona .....	1,561	1,713	20,414	1,952	1,613	1,743
Arkansas .....	9,217	10,043	118,020	10,454	9,794	9,644
California .....	39,026	32,563	474,578	39,247	40,014	32,765
Colorado .....	7,642	8,032	47,768	5,473	4,511	4,235
Connecticut .....	4,043	3,590	36,384	3,490	3,102	2,867
Delaware .....	1,571	1,713	18,113	1,766	1,899	1,796
District of Columbia .....	0	0	0	0	0	0
Florida .....	7,997	7,821	82,333	7,367	6,754	6,092
Georgia .....	13,545	14,091	172,272	13,942	14,103	14,223
Hawaii .....	0	0	0	0	0	0
Idaho .....	2,718	2,726	26,991	2,618	2,504	2,354
Illinois .....	33,401	32,249	303,146	31,704	26,893	24,758
Indiana .....	24,817	25,399	242,255	24,469	22,185	20,515
Iowa .....	9,034	9,140	101,736	9,560	9,779	8,464
Kansas .....	11,665	10,807	131,386	13,416	12,557	13,617
Kentucky .....	7,751	7,309	73,384	6,929	6,753	5,992
Louisiana .....	73,504	78,228	990,471	74,862	74,939	80,646
Maine .....	126	152	2,048	165	207	152
Maryland .....	4,276	4,210	49,633	4,174	4,320	3,923
Massachusetts .....	4,303	4,430	49,090	3,563	3,813	3,930
Michigan .....	31,055	29,841	308,689	27,802	28,677	24,210
Minnesota .....	8,659	9,346	92,882	8,899	8,825	6,973
Mississippi .....	8,632	10,030	115,130	9,563	9,421	9,623
Missouri .....	5,727	6,541	58,287	5,791	5,286	4,598
Montana .....	1,064	1,203	12,068	1,263	1,327	1,122
Nebraska .....	1,807	2,536	25,728	2,346	2,544	2,179
Nevada .....	1,141	1,816	6,375	529	533	619
New Hampshire .....	304	318	3,767	287	301	266
New Jersey .....	16,874	17,230	R 172,511	R 16,038	R 16,822	15,683
New Mexico .....	1,457	1,480	17,921	1,603	1,454	1,569
New York .....	13,927	14,175	145,551	15,480	12,410	11,278
North Carolina .....	7,691	8,270	94,044	7,949	7,975	7,932
North Dakota .....	586	635	5,917	570	525	484
Ohio .....	29,456	29,280	295,101	29,314	26,597	24,002
Oklahoma .....	15,046	16,435	179,474	15,342	14,751	13,602
Oregon .....	4,878	5,565	73,471	5,833	6,395	7,029
Pennsylvania .....	23,817	23,501	244,636	21,913	21,524	19,144
Rhode Island .....	3,069	3,138	37,668	3,153	2,954	3,029
South Carolina .....	7,428	7,920	94,516	6,992	8,329	7,607
South Dakota .....	462	515	R 4,536	526	414	330
Tennessee .....	10,372	11,931	123,736	10,493	10,705	10,337
Texas .....	129,175	153,745	1,929,247	167,910	153,892	155,125
Utah .....	5,142	6,121	46,956	5,112	4,636	3,635
Vermont .....	187	215	1,958	196	169	167
Virginia .....	9,401	9,020	78,917	6,566	5,941	4,773
Washington .....	8,143	8,313	84,030	7,255	7,019	7,198
West Virginia .....	3,962	4,182	43,690	4,225	3,854	3,809
Wisconsin .....	14,159	14,993	128,883	13,723	12,412	10,162
Wyoming .....	3,789	4,269	49,790	4,150	3,923	4,358
Total .....	645,108	680,457	R 7,664,812	R 678,718	R 647,422	620,321

See footnotes at end of table

**Table 20. Natural Gas Deliveries to Industrial Consumers by State, 1991-1993 (Continued)**  
**(Million Cubic Feet)**

State	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992
Alabama .....	13,572	13,287	14,009	13,762	13,921	13,568
Alaska .....	4,839	5,353	6,964	6,314	6,899	6,692
Arizona .....	1,643	1,663	1,702	1,697	1,623	1,727
Arkansas .....	9,670	9,211	9,028	8,994	9,758	9,747
California .....	42,482	40,160	35,278	38,165	47,753	26,800
Colorado .....	3,882	3,358	3,495	3,452	3,268	3,764
Connecticut .....	2,732	2,643	2,522	2,621	2,775	3,241
Delaware .....	1,437	1,358	1,241	1,346	1,505	1,552
District of Columbia .....	0	0	0	0	0	0
Florida .....	6,419	6,509	6,465	6,802	7,066	7,189
Georgia .....	13,850	13,856	14,373	13,987	14,378	14,578
Hawaii .....	0	0	0	0	0	0
Idaho .....	1,897	1,659	1,977	2,243	2,289	2,245
Illinois .....	21,167	18,791	20,223	19,422	22,974	25,862
Indiana .....	17,974	16,678	16,894	17,505	18,571	19,536
Iowa .....	7,875	7,734	8,173	7,894	7,801	8,258
Kansas .....	10,166	10,159	10,248	10,110	9,687	10,603
Kentucky .....	5,057	5,245	4,726	5,197	5,498	6,195
Louisiana .....	71,952	71,020	73,809	70,611	86,893	96,724
Maine .....	164	162	161	157	172	219
Maryland .....	3,648	3,741	3,980	3,754	3,960	4,481
Massachusetts .....	4,051	4,065	3,383	3,886	4,555	5,637
Michigan .....	21,300	22,088	20,529	22,801	25,258	28,742
Minnesota .....	6,242	6,361	6,473	6,158	6,976	7,866
Mississippi .....	9,511	8,805	9,326	9,374	9,494	10,031
Missouri .....	3,918	4,088	3,889	4,079	4,263	5,027
Montana .....	1,055	893	871	772	831	860
Nebraska .....	2,004	2,044	2,015	2,082	1,699	2,130
Nevada .....	451	503	488	540	562	560
New Hampshire .....	331	328	297	296	308	416
New Jersey .....	13,758	R 14,519	R 13,885	R 13,873	R 12,875	R 13,993
New Mexico .....	1,295	1,325	1,092	1,055	1,386	1,645
New York .....	11,059	10,190	10,496	10,693	10,890	12,284
North Carolina .....	7,447	7,676	7,120	7,560	7,730	7,802
North Dakota .....	408	390	438	420	446	472
Ohio .....	21,189	19,938	20,014	21,152	22,231	26,523
Oklahoma .....	14,253	14,619	14,917	14,321	14,727	14,659
Oregon .....	6,903	6,651	6,262	5,421	4,733	4,904
Pennsylvania .....	17,994	17,537	17,963	17,282	19,357	21,442
Rhode Island .....	2,970	2,977	3,299	3,068	3,148	3,393
South Carolina .....	7,810	7,729	7,945	8,145	8,182	8,187
South Dakota .....	278	246	R 356	323	346	418
Tennessee .....	9,594	9,767	10,019	9,160	9,452	10,396
Texas .....	166,255	162,873	167,715	156,311	167,691	161,117
Utah .....	3,077	3,097	3,086	3,199	3,172	3,513
Vermont .....	145	130	119	128	149	141
Virginia .....	6,423	7,326	10,629	6,030	6,531	6,081
Washington .....	6,482	8,232	5,907	6,517	6,316	6,668
West Virginia .....	3,481	3,451	3,360	3,487	3,439	3,618
Wisconsin .....	8,648	8,195	7,714	8,713	9,576	11,635
Wyoming .....	4,327	4,048	4,306	4,425	4,147	3,874
Total .....	603,084	R 592,685	R 599,181	R 585,303	R 637,259	R 647,616

See footnotes at end of table

**Table 20. Natural Gas Deliveries to Industrial Consumers by State, 1991-1993 (Continued)**  
**(Million Cubic Feet)**

State	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Alabama .....	14,967	13,887	14,491	154,825	13,500	13,361
Alaska .....	6,558	6,907	7,350	75,637	6,909	6,727
Arizona .....	1,813	1,671	1,567	19,204	1,644	1,578
Arkansas .....	10,751	9,815	11,154	104,850	9,638	9,123
California .....	38,776	43,267	49,871	602,619	49,535	42,637
Colorado .....	3,824	4,159	4,347	56,176	5,290	4,888
Connecticut .....	3,672	3,376	3,343	32,660	3,229	3,120
Delaware .....	1,434	1,413	1,366	16,147	1,332	1,322
District of Columbia .....	0	0	0	0	0	0
Florida .....	7,280	6,711	7,679	83,398	7,763	7,171
Georgia .....	15,690	14,536	14,756	167,098	13,913	14,178
Hawaii .....	0	0	0	0	0	0
Idaho .....	2,466	2,246	2,493	26,662	2,483	2,302
Illinois .....	29,603	30,058	31,692	302,691	31,841	30,248
Indiana .....	22,700	21,807	23,421	227,769	22,133	21,081
Iowa .....	8,903	8,427	8,868	97,446	8,834	8,705
Kansas .....	9,921	9,590	11,314	123,517	10,905	11,399
Kentucky .....	7,152	7,037	7,603	71,637	7,072	7,211
Louisiana .....	97,065	92,636	99,314	924,662	78,739	77,004
Maine .....	203	159	127	2,207	203	233
Maryland .....	5,126	4,272	4,255	47,150	4,418	3,948
Massachusetts .....	4,248	3,980	3,980	54,750	4,035	4,179
Michigan .....	31,251	28,495	27,536	271,987	27,166	19,918
Minnesota .....	8,650	9,631	9,823	92,251	8,422	8,505
Mississippi .....	10,581	8,690	10,711	104,622	9,360	9,553
Missouri .....	5,531	5,485	6,332	57,186	5,664	5,193
Montana .....	853	1,085	1,135	9,873	1,221	1,120
Nebraska .....	2,051	2,334	2,300	24,758	2,156	2,027
Nevada .....	564	489	537	6,624	513	517
New Hampshire .....	310	325	303	3,457	268	294
New Jersey .....	R 13,751	R 13,737	R 13,578	100,768	9,021	9,151
New Mexico .....	1,544	1,913	2,040	19,346	2,576	1,700
New York .....	13,783	13,996	12,993	118,944	12,252	10,469
North Carolina .....	8,799	8,126	7,926	84,863	7,304	7,632
North Dakota .....	608	528	627	5,123	603	535
Ohio .....	26,362	28,611	29,168	279,750	26,819	25,227
Oklahoma .....	16,086	15,668	16,528	180,695	15,711	15,370
Oregon .....	5,452	6,929	6,959	55,049	4,632	4,841
Pennsylvania .....	23,856	23,540	23,084	231,375	21,156	20,644
Rhode Island .....	3,176	3,525	2,976	26,867	3,303	3,280
South Carolina .....	8,983	7,834	6,973	85,790	6,841	7,405
South Dakota .....	482	439	380	4,658	368	421
Tennessee .....	11,059	10,671	11,483	115,786	10,622	10,281
Texas .....	166,927	138,250	165,181	1,772,691	166,382	157,045
Utah .....	4,218	4,314	5,299	43,120	5,903	4,504
Vermont .....	223	200	190	1,717	187	176
Virginia .....	6,350	6,072	6,194	59,962	5,103	4,506
Washington .....	7,132	7,464	7,840	79,735	7,688	7,417
West Virginia .....	3,838	3,465	3,662	40,889	3,453	3,423
Wisconsin .....	13,128	12,953	12,024	128,798	13,287	12,460
Wyoming .....	4,085	4,096	4,050	33,174	3,265	3,287
Total .....	R 691,784	R 654,617	R 706,823	7,230,963	664,662	627,317

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.

**Table 21. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers by State, 1991-1993**  
 (Million Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	May 1993	April 1993	March 1993
Alabama .....	1,180	1,352	1,434	266	144	215
Alaska .....	12,058	11,731	14,458	2,105	2,155	2,482
Arizona .....	6,206	10,723	5,364	1,765	1,402	1,921
Arkansas .....	1,443	12,743	11,101	267	311	280
California .....	170,873	206,068	164,193	17,816	32,390	38,720
Colorado .....	2,071	1,731	1,706	278	354	514
Connecticut .....	125	1,008	451	8	10	20
Delaware .....	1,066	2,640	4,707	272	322	253
District of Columbia .....	0	0	0	0	0	0
Florida .....	63,123	81,837	78,794	16,262	12,549	12,232
Georgia .....	190	157	124	74	33	22
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	2,209	5,347	4,197	377	445	482
Indiana .....	2,275	4,345	2,429	273	437	457
Iowa .....	982	785	883	233	238	169
Kansas .....	3,779	4,441	10,187	846	649	920
Kentucky .....	81	104	100	19	27	11
Louisiana .....	58,942	96,264	86,437	13,920	10,869	14,087
Maine .....	0	0	0	0	0	0
Maryland .....	1,710	2,954	4,389	385	187	560
Massachusetts .....	9,549	8,001	11,249	2,513	3,815	2,955
Michigan .....	7,335	12,432	7,468	1,345	925	1,380
Minnesota .....	966	2,216	2,192	297	185	164
Mississippi .....	9,257	25,902	20,202	2,968	1,335	2,114
Missouri .....	364	691	3,169	54	63	113
Montana .....	52	54	84	13	4	15
Nebraska .....	548	708	1,472	137	148	111
Nevada .....	7,630	8,169	5,980	2,157	1,695	2,305
New Hampshire .....	97	0	0	91	6	0
New Jersey .....	4,836	9,600	21,857	1,278	329	1,508
New Mexico .....	10,833	8,616	10,760	2,067	2,811	2,793
New York .....	59,706	80,451	67,745	12,276	14,335	12,983
North Carolina .....	712	1,047	1,110	100	99	141
North Dakota .....	0	1	0	0	0	0
Ohio .....	1,438	1,628	1,096	135	102	417
Oklahoma .....	49,991	58,196	58,855	10,542	10,485	10,268
Oregon .....	5,177	4,129	546	0	0	1,990
Pennsylvania .....	3,594	665	941	211	337	1,133
Rhode Island .....	0	211	369	0	0	0
South Carolina .....	151	834	1,008	24	21	69
South Dakota .....	14	4	8	2	0	10
Tennessee .....	85	140	0	15	14	15
Texas .....	344,163	334,312	364,684	74,821	71,510	75,318
Utah .....	3,053	3,115	1,859	507	592	697
Vermont .....	36	267	167	18	15	1
Virginia .....	7,107	4,979	2,417	174	1,317	1,776
Washington .....	4,562	512	41	0	683	1,836
West Virginia .....	50	61	46	4	11	6
Wisconsin .....	1,156	1,194	1,119	222	343	318
Wyoming .....	47	36	23	7	7	15
Total .....	860,828	1,012,402	977,416	167,146	173,709	193,795

See footnotes at end of table.

**Table 2i. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers by State, 1991-1993 (Continued)**  
**(Million Cubic Feet)**

State	February 1993	January 1993	Total 1992	December 1992	November 1992	October 1992
Alabama .....	306	249	3,368	171	382	234
Alaska .....	2,535	2,781	28,953	2,721	2,756	2,514
Arizona .....	588	530	30,939	328	597	2,631
Arkansas .....	263	322	27,015	246	209	733
California .....	40,118	41,829	564,432	47,146	50,027	53,026
Colorado .....	394	531	5,019	526	396	493
Connecticut .....	62	25	2,100	28	18	19
Delaware .....	55	164	8,384	580	586	581
District of Columbia .....	0	0	0	0	0	0
Florida .....	11,459	10,621	202,576	10,390	12,389	12,525
Georgia .....	49	12	1,162	13	12	65
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	396	509	9,293	370	278	301
Indiana .....	450	658	7,772	824	525	158
Iowa .....	106	236	2,265	193	207	200
Kansas .....	670	694	13,981	809	534	546
Kentucky .....	12	12	269	20	23	19
Louisiana .....	9,246	10,820	254,922	11,705	13,510	18,382
Maine .....	0	0	0	0	0	0
Maryland .....	349	229	11,575	430	469	665
Massachusetts .....	128	138	38,341	227	3,903	3,683
Michigan .....	1,904	1,781	24,908	1,727	1,994	1,675
Minnesota .....	144	176	4,906	231	336	210
Mississippi .....	1,249	1,591	54,180	1,625	1,843	1,616
Missouri .....	75	59	2,351	67	85	67
Montana .....	16	4	220	8	47	32
Nebraska .....	48	104	1,903	136	191	210
Nevada .....	926	547	24,355	436	808	1,968
New Hampshire .....	0	0	633	0	0	16
New Jersey .....	1,383	338	38,772	681	1,209	1,562
New Mexico .....	1,699	1,463	22,486	1,408	1,440	1,803
New York .....	9,569	10,543	208,731	10,640	11,688	13,307
North Carolina .....	205	167	3,159	169	165	127
North Dakota .....	0	0	1	0	0	0
Ohio .....	432	352	2,956	53	90	217
Oklahoma .....	9,249	9,447	148,980	10,120	8,514	9,300
Oregon .....	2,074	1,113	14,264	977	1,373	1,789
Pennsylvania .....	1,156	757	3,100	262	148	262
Rhode Island .....	0	0	469	0	0	0
South Carolina .....	20	17	1,795	5	82	22
South Dakota .....	2	0	48	9	27	2
Tennessee .....	21	20	291	25	10	18
Texas .....	59,828	62,686	968,165	68,751	72,018	80,276
Utah .....	557	700	6,576	542	138	665
Vermont .....	1	1	801	1	28	122
Virginia .....	1,978	1,862	10,936	839	11	25
Washington .....	1,896	147	5,385	9	4	426
West Virginia .....	19	10	201	8	9	6
Wisconsin .....	130	143	2,584	146	207	134
Wyoming .....	8	10	83	7	8	8
Total .....	161,778	164,400	2,765,608	175,608	189,298 <sup>1</sup>	212,640

See footnotes at end of table.

**Table 21. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers by State, 1991-1993 (Continued)**  
 (Million Cubic Feet)

State	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992
Alabama .....	305	296	322	307	350	216
Alaska .....	2,311	2,374	2,342	2,204	2,116	2,410
Arizona .....	4,607	5,277	3,999	2,778	3,300	2,300
Arkansas .....	2,324	2,828	4,145	3,788	3,881	4,068
California .....	53,989	66,474	51,011	36,692	41,687	43,478
Colorado .....	469	479	570	355	357	243
Connecticut .....	14	291	407	316	131	391
Delaware .....	851	1,140	971	1,034	598	593
District of Columbia .....	0	0	0	0	0	0
Florida .....	21,038	20,829	21,946	21,623	19,942	18,239
Georgia .....	66	120	654	75	24	106
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	554	589	854	998	955	943
Indiana .....	301	370	488	760	1,056	605
Iowa .....	135	277	262	208	155	195
Kansas .....	1,395	2,036	2,833	1,388	1,385	910
Kentucky .....	23	28	23	28	16	23
Louisiana .....	23,855	26,733	33,952	30,520	26,127	22,298
Maine .....	0	0	0	0	0	0
Maryland .....	1,228	1,457	3,004	1,367	974	772
Massachusetts .....	4,664	4,803	7,643	5,418	3,630	3,795
Michigan .....	1,738	2,421	1,449	1,473	2,126	2,516
Minnesota .....	440	473	509	491	352	316
Mississippi .....	5,419	5,359	7,189	5,227	6,629	5,878
Missouri .....	86	200	1,025	131	176	79
Montana .....	10	20	29	20	26	11
Nebraska .....	280	85	153	139	111	211
Nevada .....	2,761	3,629	3,491	3,091	2,681	2,152
New Hampshire .....	493	118	0	0	0	0
New Jersey .....	3,860	6,351	12,179	3,330	1,794	3,878
New Mexico .....	2,183	2,594	2,532	1,911	2,444	1,981
New York .....	21,641	22,006	25,124	23,875	20,936	18,809
North Carolina .....	336	361	614	341	180	159
North Dakota .....	0	0	0	0	0	0
Ohio .....	243	288	264	173	339	409
Oklahoma .....	15,806	15,714	17,018	14,312	13,004	13,652
Oregon .....	2,045	1,854	1,437	661	0	0
Pennsylvania .....	274	320	824	345	129	138
Rhode Island .....	11	78	80	90	78	90
South Carolina .....	42	82	525	202	10	13
South Dakota .....	1	5	0	1	1	0
Tennessee .....	15	7	40	35	33	37
Texas .....	95,796	99,748	120,114	97,150	76,427	74,644
Utah .....	542	550	517	509	627	642
Vermont .....	2	34	186	160	122	122
Virginia .....	714	945	2,408	1,014	909	1,036
Washington .....	523	2,698	185	1,028	195	293
West Virginia .....	18	24	26	47	28	7
Wisconsin .....	249	178	219	259	269	345
Wyoming .....	6	5	5	8	4	12
Total .....	273,670	302,544	333,567	265,882	236,316	229,012

See footnotes at end of table.

**Table 21. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers by State, 1991-1993 (Continued)**  
 (Million Cubic Feet)

State	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Alabama .....	315	204	267	4,081	312	309
Alaska .....	2,449	2,258	2,498	31,330	2,499	2,456
Arizona .....	1,953	1,719	1,451	23,282	355	1,929
Arkansas .....	2,403	2,080	311	27,903	309	307
California .....	42,382	39,134	39,387	449,014	36,246	39,364
Colorado .....	494	309	328	5,715	704	641
Connecticut .....	424	28	34	4,702	40	48
Delaware .....	526	467	456	14,354	982	674
District of Columbia .....	0	0	0	0	0	0
Florida .....	17,249	14,042	12,365	201,319	13,027	14,891
Georgia .....	14	10	3	838	20	53
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	1,720	860	869	12,865	667	868
Indiana .....	535	1,030	1,119	10,043	1,851	750
Iowa .....	157	182	96	3,671	239	405
Kansas .....	717	694	735	36,122	739	2,032
Kentucky .....	16	14	35	227	19	14
Louisiana .....	20,481	13,176	14,182	254,245	12,093	15,920
Maine .....	0	0	0	0	0	0
Maryland .....	694	244	270	16,059	319	670
Massachusetts .....	463	54	59	39,133	265	1,450
Michigan .....	3,171	2,574	2,045	23,736	2,594	2,401
Minnesota .....	508	703	337	5,870	384	340
Mississippi .....	5,152	5,439	2,804	62,409	2,712	3,798
Missouri .....	186	143	107	12,709	97	285
Montana .....	7	4	6	268	29	29
Nebraska .....	213	76	97	3,689	368	538
Nevada .....	1,499	1,093	744	21,738	887	1,351
New Hampshire .....	0	0	0	0	0	0
New Jersey .....	2,675	487	466	61,874	1,141	2,498
New Mexico .....	1,288	1,306	1,597	28,100	1,826	2,127
New York .....	17,363	13,500	9,843	211,640	12,968	14,580
North Carolina .....	206	233	269	3,020	262	227
North Dakota .....	0	1	0	1	0	0
Ohio .....	309	259	312	3,237	137	346
Oklahoma .....	12,412	9,258	9,870	167,214	8,716	10,665
Oregon .....	0	2,005	2,124	10,856	1,919	1,651
Pennsylvania .....	178	126	94	2,037	193	148
Rhode Island .....	43	0	0	1,638	7	86
South Carolina .....	793	3	15	9,823	7	10
South Dakota .....	1	0	2	177	1	0
Tennessee .....	48	5	17	211	26	64
Texas .....	66,472	54,754	62,015	1,005,051	63,406	73,000
Utah .....	647	573	626	5,190	617	604
Vermont .....	20	1	2	1,091	13	10
Virginia .....	805	1,111	1,118	9,471	741	56
Washington .....	6	7	11	139	23	17
West Virginia .....	5	5	16	140	21	8
Wisconsin .....	351	116	113	2,706	154	206
Wyoming .....	6	5	9	76	5	5
Total .....	207,656	170,293	169,125	2,789,014	169,931	197,831

<sup>a</sup> 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.

**Table 22. Natural Gas Deliveries to All Consumers by State, 1991-1993**  
(Million Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	May 1993	April 1993	March 1993
Alabama .....	124,944	117,385	106,729	18,390	23,259	28,360
Alaska .....	62,669	64,604	63,836	10,341	11,524	12,261
Arizona .....	45,455	51,597	48,055	6,602	7,862	10,925
Arkansas .....	94,721	103,586	96,493	12,495	17,057	21,176
California .....	746,875	796,835	823,376	103,208	122,504	150,934
Colorado .....	147,731	114,367	129,631	18,373	24,101	32,176
Connecticut .....	61,487	60,314	52,498	6,095	10,048	14,381
Delaware .....	18,356	18,316	19,200	2,632	3,633	4,363
District of Columbia .....	20,372	20,048	18,705	1,955	3,158	4,982
Florida .....	130,678	145,682	140,304	28,759	25,774	26,544
Georgia .....	165,196	160,799	148,740	20,994	27,731	37,293
Hawaii .....	1,146	1,147	1,145	213	225	230
Idaho .....	26,698	21,686	23,508	3,530	4,256	5,760
Illinois .....	549,116	516,921	506,919	47,966	84,401	127,615
Indiana .....	268,200	239,610	228,039	29,121	R 48,512	60,808
Iowa .....	124,576	110,442	114,643	13,480	19,997	27,940
Kansas .....	143,271	121,634	141,510	17,983	24,284	31,110
Kentucky .....	93,149	87,635	82,907	8,579	14,053	21,817
Louisiana .....	479,238	614,548	515,236	88,530	94,355	101,018
Maine .....	2,468	2,754	2,426	226	405	542
Maryland .....	93,810	93,919	86,861	9,758	14,152	23,582
Massachusetts .....	142,155	140,439	131,594	17,993	27,086	34,239
Michigan .....	482,084	470,300	431,845	53,094	81,171	112,635
Minnesota .....	163,937	154,888	158,016	15,468	25,220	36,597
Mississippi .....	84,946	101,123	88,048	14,500	15,646	18,772
Missouri .....	159,333	131,389	141,439	15,867	24,810	37,514
Montana .....	24,348	19,241	22,204	2,450	3,750	5,546
Nebraska .....	68,038	50,173	56,068	6,114	11,717	14,678
Nevada .....	38,296	29,937	29,365	6,625	7,269	8,525
New Hampshire .....	9,780	9,490	8,166	1,111	1,705	2,245
New Jersey .....	289,682	274,475	239,954	31,501	50,161	69,180
New Mexico .....	52,230	49,812	52,180	6,820	9,485	11,064
New York .....	483,052	504,705	435,756	54,980	86,538	116,426
North Carolina .....	93,299	87,757	78,591	11,513	16,536	21,850
North Dakota .....	15,599	13,795	14,447	1,512	2,511	3,384
Ohio .....	449,761	430,863	405,313	42,402	73,216	108,913
Oklahoma .....	202,001	195,055	201,232	31,003	36,867	43,692
Oregon .....	63,684	57,893	53,301	8,225	9,787	14,168
Pennsylvania .....	357,039	350,092	323,599	36,153	58,201	87,909
Rhode Island .....	33,890	33,978	24,453	4,818	6,201	7,749
South Carolina .....	64,629	63,612	56,160	9,327	11,999	15,177
South Dakota .....	15,894	12,931	14,033	1,486	2,513	3,492
Tennessee .....	118,374	111,899	106,922	15,055	19,669	27,369
Texas .....	1,268,283	1,328,792	1,261,378	225,960	249,793	264,207
Utah .....	69,582	59,167	62,817	8,152	10,533	14,570
Vermont .....	4,049	4,212	3,527	438	658	976
Virginia .....	115,990	100,983	84,209	10,382	19,124	27,348
Washington .....	102,276	79,786	85,195	13,574	17,127	22,838
West Virginia .....	54,907	52,382	48,454	6,563	9,522	13,395
Wisconsin .....	188,981	174,126	174,450	17,940	31,996	42,997
Wyoming .....	31,227	29,933	26,021	5,475	5,774	5,640
Total .....	8,647,501	8,587,058	8,169,496	1,125,726	R 1,507,880	1,936,911

See footnotes at end of tables.

**Table 22. Natural Gas Deliveries to All Consumers by State, 1991-1993 (Continued)**  
 (Million Cubic Feet)

State	February 1993	January 1993	Total 1992	December 1992	November 1992	October 1992
Alabama .....	27,204	27,731	246,851	25,506	20,489	17,234
Alaska .....	13,441	15,102	145,499	14,676	13,459	13,319
Arizona .....	9,078	10,988	109,925	11,229	5,938	7,209
Arkansas .....	20,757	23,238	211,434	20,621	15,183	13,092
California .....	178,951	191,279	1,804,199	190,413	148,350	129,368
Colorado .....	34,170	38,913	213,576	31,958	18,075	11,341
Connecticut .....	16,223	14,740	110,231	13,172	9,571	6,691
Delaware .....	3,818	3,910	39,688	4,015	3,511	2,926
District of Columbia .....	5,209	5,068	32,816	4,151	2,426	1,400
Florida .....	25,327	24,273	341,322	23,663	23,631	22,385
Georgia .....	39,509	39,668	335,209	40,061	31,643	22,757
Hawaii .....	242	236	2,696	234	221	210
Idaho .....	6,353	6,799	45,563	6,116	4,415	3,245
Illinois .....	137,682	151,452	982,553	140,903	104,611	66,066
Indiana .....	63,026	66,734	475,626	61,659	46,816	33,296
Iowa .....	29,962	33,197	225,237	30,450	24,207	15,049
Kansas .....	33,529	36,366	267,885	34,025	23,803	19,598
Kentucky .....	24,557	24,142	170,965	23,011	17,822	11,601
Louisiana .....	94,403	100,931	1,326,052	98,036	94,559	102,707
Maine .....	643	652	5,098	557	461	307
Maryland .....	23,903	22,416	178,822	20,724	15,531	11,112
Massachusetts .....	31,875	30,962	268,231	25,027	23,086	16,519
Michigan .....	116,861	118,323	865,384	103,784	81,062	56,427
Minnesota .....	40,237	46,416	292,808	39,434	31,555	18,719
Mississippi .....	17,177	18,852	214,140	17,959	14,657	13,158
Missouri .....	37,934	43,208	238,423	35,508	21,558	11,802
Montana .....	5,285	7,317	40,708	6,465	4,457	3,082
Nebraska .....	R 14,324	R 21,205	104,157	14,569	11,328	6,969
Nevada .....	7,342	8,536	65,547	6,440	3,631	4,324
New Hampshire .....	2,359	2,361	16,714	1,752	1,342	964
New Jersey .....	72,918	65,922	R 541,331	R 60,779	R 47,025	34,754
New Mexico .....	11,346	13,515	98,293	12,240	7,124	6,059
New York .....	112,552	112,556	953,133	103,053	71,743	56,185
North Carolina .....	21,222	22,178	175,678	19,800	14,535	11,928
North Dakota .....	3,586	4,606	25,363	3,592	2,530	1,518
Ohio .....	114,860	110,369	798,155	102,573	75,859	54,167
Oklahoma .....	42,910	47,531	429,390	42,645	30,610	26,599
Oregon .....	14,890	16,613	132,170	14,298	11,601	11,035
Pennsylvania .....	89,507	85,268	645,615	76,754	58,931	43,481
Rhode Island .....	7,754	7,369	66,734	6,506	5,239	4,265
South Carolina .....	13,775	14,352	135,144	12,838	11,487	9,413
South Dakota .....	3,747	4,657	R 24,648	3,823	2,823	1,496
Tennessee .....	26,960	29,321	221,687	25,253	19,115	14,592
Texas .....	245,392	282,930	3,281,519	292,839	262,601	254,346
Utah .....	17,051	19,277	114,217	16,730	9,946	6,647
Vermont .....	1,003	975	7,598	775	613	561
Virginia .....	30,371	28,766	201,708	23,527	16,126	11,294
Washington .....	23,257	25,479	170,211	20,898	14,676	12,102
West Virginia .....	13,130	12,297	99,786	11,217	8,713	6,989
Wisconsin .....	44,879	51,168	R 328,943	44,333	34,041	22,348
Wyoming .....	6,655	7,682	67,492	7,219	5,614	5,277
Total .....	R 1,979,142	R 2,097,843	R 17,896,175	R 1,947,811	R 1,528,348	1,237,834

See footnotes at end of tables.

**Table 22. Natural Gas Deliveries to All Consumers by State, 1991-1993 (Continued)**  
 (Million Cubic Feet)

State	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992
Alabama .....	16,377	15,964	16,844	17,052	18,478	21,041
Alaska .....	9,046	9,178	10,865	10,352	11,624	12,382
Arizona .....	8,792	9,326	8,379	7,453	7,849	9,115
Arkansas .....	14,109	14,177	15,418	15,248	16,832	19,714
California .....	137,715	150,406	129,948	121,163	145,110	125,993
Colorado .....	9,294	8,447	9,290	10,804	12,238	18,719
Connecticut .....	4,959	4,975	5,084	5,464	7,075	10,811
Delaware .....	2,634	2,830	2,576	2,881	2,942	3,633
District of Columbia .....	1,104	1,098	1,191	1,399	2,012	3,607
Florida .....	30,910	30,814	32,028	32,209	31,290	30,471
Georgia .....	19,581	19,452	20,730	20,186	22,208	26,391
Hawaii .....	221	215	218	231	224	229
Idaho .....	2,540	2,173	2,555	2,833	3,180	3,616
Illinois .....	42,043	36,520	37,234	38,255	55,206	84,963
Indiana .....	24,357	22,318	22,669	24,901	30,620	40,567
Iowa .....	11,336	10,943	11,087	11,723	13,180	19,216
Kansas .....	16,348	17,240	18,458	16,778	18,400	22,731
Kentucky .....	7,704	7,850	7,147	8,195	9,744	13,009
Louisiana .....	99,177	100,981	111,241	104,802	117,509	125,718
Maine .....	248	235	263	273	393	541
Maryland .....	8,516	8,851	10,689	9,480	11,329	16,139
Massachusetts .....	14,676	14,799	17,378	16,306	20,446	29,124
Michigan .....	37,900	38,121	35,732	42,058	59,230	85,235
Minnesota .....	12,342	11,673	11,935	12,263	16,081	26,103
Mississippi .....	16,651	15,845	18,290	16,458	18,410	19,860
Missouri .....	8,987	8,961	9,660	10,558	13,388	21,651
Montana .....	2,323	1,669	1,756	1,716	2,272	3,188
Nebraska .....	5,123	5,522	5,597	4,876	5,630	8,544
Nevada .....	4,716	5,506	5,693	5,298	5,089	5,491
New Hampshire .....	1,156	754	635	722	1,145	1,811
New Jersey .....	28,382	R 30,735	R 36,526	R 28,655	R 34,745	R 52,114
New Mexico .....	5,881	6,243	5,723	5,213	6,978	8,581
New York .....	52,405	51,426	55,552	58,064	69,315	95,863
North Carolina .....	10,239	10,352	10,137	10,931	12,324	15,730
North Dakota .....	1,057	866	977	1,029	1,583	2,411
Ohio .....	33,878	31,644	32,583	36,589	47,207	74,048
Oklahoma .....	33,086	33,343	35,315	32,738	32,750	37,225
Oregon .....	10,518	9,862	9,150	7,812	7,269	8,516
Pennsylvania .....	29,663	27,768	28,849	30,075	40,080	59,719
Rhode Island .....	3,913	3,952	4,459	4,422	5,369	6,581
South Carolina .....	9,129	9,073	9,710	9,883	10,280	11,913
South Dakota .....	921	792	R 915	950	1,450	2,251
Tennessee .....	12,657	12,523	13,005	12,642	14,109	20,060
Texas .....	279,797	282,319	309,061	271,764	265,855	263,378
Utah .....	5,345	5,274	5,419	5,688	6,427	8,494
Vermont .....	277	288	436	435	534	778
Virginia .....	10,474	11,688	16,570	11,046	13,917	17,400
Washington .....	10,030	13,389	8,577	10,752	11,226	13,876
West Virginia .....	5,163	4,945	4,828	5,548	6,661	9,506
Wisconsin .....	14,232	12,793	12,402	R 14,667	20,211	30,993
Wyoming .....	4,928	4,556	4,850	5,113	5,118	5,375
Total .....	1,132,861	R 1,140,673	R 1,185,637	R 1,135,954	R 1,292,541	R 1,554,426

See footnotes at end of tables.

**Table 22. Natural Gas Deliveries to All Consumers by State, 1991-1993 (Continued)**  
 (Million Cubic Feet)

State	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Alabama .....	23,557	27,104	27,205	228,765	23,176	19,675
Alaska .....	13,090	13,469	14,038	141,426	13,396	12,469
Arizona .....	10,846	11,246	12,542	101,473	9,744	7,346
Arkansas .....	21,850	22,395	22,794	199,379	18,725	15,822
California .....	152,479	167,899	205,354	1,847,949	180,196	141,349
Colorado .....	23,576	28,247	31,587	228,283	29,497	19,704
Connecticut .....	13,751	14,279	14,397	101,380	11,874	8,998
Delaware .....	3,809	4,058	3,874	41,944	3,747	2,897
District of Columbia .....	4,321	105	5,003	30,836	3,765	2,290
Florida .....	29,865	27,430	26,627	336,895	26,421	26,712
Georgia .....	34,314	35,959	41,928	315,634	36,415	31,863
Hawaii .....	222	231	241	2,694	231	222
Idaho .....	4,246	4,770	5,874	46,467	5,363	4,332
Illinois .....	113,638	120,128	142,986	976,375	132,181	115,313
Indiana .....	50,794	55,041	62,588	452,690	56,842	46,570
Iowa .....	22,520	26,995	28,530	226,476	28,609	23,296
Kansas .....	22,679	26,710	31,115	293,035	28,191	26,795
Kentucky .....	19,001	20,296	25,585	165,028	21,934	19,097
Louisiana .....	125,958	118,545	126,818	1,258,960	101,242	100,471
Maine .....	635	612	572	4,789	584	442
Maryland .....	20,710	22,467	23,275	170,561	19,830	14,825
Massachusetts .....	29,750	31,554	29,565	250,028	23,181	17,746
Michigan .....	105,086	108,354	112,394	798,489	102,051	68,694
Minnesota .....	33,316	37,343	42,045	301,144	39,915	33,339
Mississippi .....	20,352	21,445	21,056	210,531	17,905	17,430
Missouri .....	25,975	32,947	37,428	253,765	32,032	24,144
Montana .....	3,597	4,759	5,425	41,401	5,666	4,926
Nebraska .....	10,017	12,299	13,682	113,409	13,134	11,229
Nevada .....	5,954	6,154	7,250	64,465	6,318	4,279
New Hampshire .....	1,942	2,346	2,247	14,094	1,601	1,166
New Jersey .....	R 60,364	R 64,376	R 62,877	460,521	50,967	37,798
New Mexico .....	9,212	11,706	13,336	102,206	12,387	7,614
New York .....	112,573	116,620	110,334	869,100	96,633	71,694
North Carolina .....	18,124	20,717	20,862	160,172	17,375	14,809
North Dakota .....	2,819	3,364	3,617	26,195	3,627	2,963
Ohio .....	92,577	103,810	113,221	755,118	96,913	76,832
Oklahoma .....	39,491	40,867	44,722	456,705	40,150	36,925
Oregon .....	10,088	14,926	17,095	114,557	12,863	10,497
Pennsylvania .....	77,457	85,008	87,827	601,688	72,938	56,681
Rhode Island .....	7,124	7,802	7,102	54,148	6,392	5,298
South Carolina .....	14,148	13,836	13,435	131,020	11,887	10,875
South Dakota .....	2,758	3,122	3,349	25,529	3,250	3,031
Tennessee .....	22,333	26,295	29,101	211,310	24,423	19,735
Texas .....	268,969	241,889	288,701	3,181,703	283,341	271,155
Utah .....	11,600	14,970	17,676	118,164	17,066	11,036
Vermont .....	930	981	989	7,069	798	561
Virginia .....	20,910	23,786	24,971	167,709	19,327	13,890
Washington .....	15,711	18,274	20,699	167,901	19,113	15,644
West Virginia .....	11,002	12,468	12,746	94,624	10,959	8,806
Wisconsin .....	38,633	40,641	43,647	327,124	43,185	35,715
Wyoming .....	5,900	6,465	7,075	54,348	6,170	5,344
Total .....	R 1,790,570	R 1,882,113	R 2,067,408	17,305,276	1,843,531	1,540,346

R = Revised Data.

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Deliveries for total year 1991 may not equal the sum of the twelve months. 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.

Sources: Form EIA-857 and Form EIA-759.

**Table 23. Average City Gate Price by State, 1991-1993**  
(Dollars per Thousand Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	May 1993	April 1993	March 1993	February 1993	January 1993
Alabama .....	3.35	2.96	3.20	3.81	3.38	3.16	3.36	3.32
Alaska .....	.33	.33	.33	.33	.33	.33	.33	.33
Arizona .....	2.46	1.57	2.84	3.23	2.00	2.50	2.28	2.63
Arkansas .....	2.55	2.43	2.34	2.65	2.60	2.63	2.45	2.62
California .....	2.82	2.47	2.63	2.97	2.86	2.90	2.69	2.74
Colorado .....	2.74	3.45	3.09	3.02	2.78	2.57	2.67	2.80
Connecticut .....	3.74	4.76	3.13	5.51	4.32	3.31	3.27	3.70
Delaware .....	3.24	2.59	2.38	3.52	3.33	3.22	3.03	3.13
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	2.80	2.29	2.45	2.89	2.90	2.64	2.65	2.95
Georgia .....	3.61	2.90	2.79	4.62	3.44	3.28	3.48	3.79
Hawaii .....	6.10	7.60	8.57	5.72	5.69	5.46	7.01	6.49
Idaho .....	2.03	2.55	2.43	2.24	1.89	2.12	1.97	2.03
Illinois .....	3.45	2.72	2.52	3.41	3.13	3.25	3.48	3.75
Indiana .....	3.08	2.71	2.87	3.74	3.14	2.91	2.83	3.04
Iowa .....	3.13	2.71	2.90	4.28	3.55	2.94	2.81	3.02
Kansas .....	2.84	2.52	2.44	2.48	2.54	3.19	2.66	3.06
Kentucky .....	3.24	2.89	3.35	3.94	3.26	3.24	3.10	3.13
Louisiana .....	2.64	2.49	2.30	3.23	2.72	2.65	2.33	2.59
Maine .....	3.57	2.66	2.68	3.67	3.31	3.66	3.53	3.69
Maryland .....	3.21	2.68	2.91	4.98	3.80	2.90	2.89	3.02
Massachusetts .....	3.84	3.66	3.21	4.42	3.92	3.94	3.53	3.71
Michigan .....	3.03	2.89	2.82	3.17	2.82	2.84	2.90	3.43
Minnesota .....	2.99	3.02	2.71	3.82	2.98	2.94	2.78	2.97
Mississippi .....	2.71	2.27	2.34	3.41	2.89	2.61	2.44	2.62
Missouri .....	3.13	2.84	3.01	3.89	2.91	2.95	2.87	3.37
Montana .....	3.06	4.03	3.81	4.11	3.16	2.92	2.96	2.98
Nebraska .....	2.94	3.09	2.90	3.94	3.19	2.78	2.78	2.92
Nevada .....	2.74	2.65	2.32	3.73	3.29	2.66	2.36	2.57
New Hampshire .....	3.58	3.31	2.86	3.86	3.42	3.68	3.30	3.78
New Jersey .....	3.29	2.87	3.00	4.26	3.44	3.27	2.81	3.31
New Mexico .....	2.53	2.09	2.72	2.71	3.04	2.54	2.34	2.45
New York .....	3.20	2.69	2.64	4.49	3.64	3.15	2.75	3.06
North Carolina .....	3.11	2.85	2.81	3.65	3.24	3.01	2.83	3.09
North Dakota .....	3.14	3.36	3.62	4.05	3.24	3.01	2.97	3.11
Ohio .....	3.58	3.35	3.31	4.27	4.28	3.44	3.43	3.40
Oklahoma .....	2.43	2.17	1.78	2.54	2.26	2.44	2.41	2.50
Oregon .....	2.26	2.59	2.30	2.74	2.18	2.16	2.26	2.22
Pennsylvania .....	3.24	3.62	4.06	4.19	3.57	3.15	3.04	3.02
Rhode Island .....	3.71	3.42	3.62	6.59	4.09	3.34	3.12	3.57
South Carolina .....	3.40	2.93	3.00	4.20	3.48	3.11	3.27	3.39
South Dakota .....	3.20	3.42	3.14	4.31	3.36	3.12	2.98	3.07
Tennessee .....	3.07	3.01	2.83	3.81	3.29	3.00	2.81	2.95
Texas .....	3.23	2.92	2.46	3.36	3.09	3.09	3.16	3.40
Utah .....	3.22	8.05	4.43	5.61	3.74	3.39	2.89	2.94
Vermont .....	2.74	3.04	2.97	3.85	3.03	2.57	2.53	2.52
Virginia .....	3.25	2.80	3.01	3.73	3.36	3.10	3.18	3.24
Washington .....	2.08	1.76	1.65	2.12	1.85	2.06	2.11	2.18
West Virginia .....	2.84	4.05	4.87	1.94	3.62	2.93	2.88	3.03
Wisconsin .....	3.37	3.45	3.08	5.43	3.86	3.15	2.96	3.06
Wyoming .....	2.87	3.43	3.39	3.77	3.07	2.89	2.63	2.71
Total .....	3.13	2.77	2.90	3.57	3.24	3.06	2.94	3.10

See footnotes at end of table.

**Table 23. Average City Gate Price by State, 1991-1993 (Continued)**  
(Dollars per Thousand Cubic Feet)

State	Total 1992	December 1992	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992
Alabama .....	3.21	3.43	3.44	3.91	3.67	3.65	3.16	3.28
Alaska .....	.34	.33	.33	.33	.33	.34	.33	.33
Arizona .....	2.33	2.55	2.69	2.64	2.42	2.43	2.70	2.31
Arkansas .....	2.59	2.58	2.71	2.49	2.41	2.38	2.41	2.53
California .....	2.72	2.75	2.91	2.92	2.80	2.82	2.73	2.59
Colorado .....	2.86	2.81	2.74	2.98	3.67	3.61	3.32	3.23
Connecticut .....	3.73	3.59	3.80	4.02	4.13	4.23	4.12	4.96
Delaware .....	2.83	3.53	3.93	3.74	2.74	1.78	2.72	2.90
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	2.61	3.07	3.19	3.16	2.64	2.58	2.41	2.37
Georgia .....	3.28	3.51	3.27	3.93	3.70	3.55	3.10	3.21
Hawaii .....	7.72	7.59	7.81	8.17	7.87	8.27	8.08	7.55
Idaho .....	2.18	2.06	1.99	2.37	2.47	3.61	2.52	2.57
Illinois .....	3.18	3.53	3.47	3.60	3.36	3.19	2.91	2.89
Indiana .....	3.08	3.26	3.33	3.69	3.03	3.52	2.97	3.16
Iowa .....	3.20	3.21	3.44	3.97	3.89	3.86	4.16	4.12
Kansas .....	2.50	2.48	2.79	2.33	2.31	2.49	2.30	2.07
Kentucky .....	3.02	3.26	3.28	3.53	2.76	2.74	2.57	2.98
Louisiana .....	2.52	2.90	2.87	3.30	2.82	2.67	2.38	2.31
Maine .....	3.17	4.00	3.41	3.45	2.80	4.19	2.72	2.82
Maryland .....	3.20	3.17	3.66	3.91	4.58	4.83	5.04	4.46
Massachusetts .....	3.51	3.86	3.95	3.88	3.40	3.24	3.35	3.77
Michigan .....	3.04	3.16	3.33	3.31	3.02	2.95	2.78	2.82
Minnesota .....	2.92	3.32	3.31	3.57	3.28	3.34	3.12	3.25
Mississippi .....	2.59	2.92	3.00	3.50	2.91	2.76	2.38	2.54
Missouri .....	2.87	2.78	3.15	3.57	3.51	3.40	2.93	3.19
Montana .....	3.45	2.91	3.01	3.19	3.85	4.38	4.80	4.51
Nebraska .....	2.92	3.09	3.15	3.55	3.47	3.23	3.18	3.28
Nevada .....	2.37	2.40	2.43	2.45	2.67	2.92	2.72	2.68
New Hampshire .....	3.58	3.96	4.02	3.70	3.16	3.83	3.27	3.62
New Jersey .....	3.29	3.32	4.32	3.95	3.97	3.38	3.40	3.17
New Mexico .....	2.25	2.55	2.66	2.99	2.30	2.13	2.09	2.48
New York .....	3.01	3.34	3.47	3.75	3.37	3.15	2.92	3.11
North Carolina .....	2.88	3.22	3.32	3.38	3.26	3.04	3.13	3.13
North Dakota .....	3.28	3.06	3.09	3.16	3.38	3.79	4.16	3.55
Ohio .....	3.26	3.69	3.51	3.84	3.60	3.71	3.72	3.43
Oklahoma .....	2.22	2.38	2.52	2.44	1.84	1.79	1.82	1.88
Oregon .....	2.34	2.39	2.36	2.35	2.27	2.41	2.25	2.14
Pennsylvania .....	3.29	3.37	3.61	3.82	4.20	4.32	3.92	4.01
Rhode Island .....	3.82	3.67	4.49	4.45	4.58	4.87	4.26	4.21
South Carolina .....	3.23	3.56	3.56	3.74	3.48	3.38	3.22	3.10
South Dakota .....	3.10	3.29	3.18	2.83	3.25	4.09	3.91	3.68
Tennessee .....	2.89	3.20	3.39	3.66	3.41	3.41	2.94	3.09
Texas .....	3.09	3.48	3.48	3.57	3.01	2.92	2.76	2.85
Utah .....	4.09	3.00	3.95	4.71	9.36	7.45	7.72	7.48
Vermont .....	2.93	2.60	2.86	2.95	4.06	4.17	3.25	3.25
Virginia .....	2.91	3.32	3.83	3.70	3.26	3.63	2.87	2.69
Washington .....	1.90	2.16	1.98	2.00	1.99	1.93	1.96	1.87
West Virginia .....	3.24	3.36	4.01	4.59	6.20	5.74	7.91	4.36
Wisconsin .....	3.36	3.17	3.48	3.97	4.47	4.94	4.76	3.84
Wyoming .....	2.90	2.69	2.55	2.66	3.01	3.32	3.36	3.63
Total .....	3.01	3.17	3.33	3.49	3.24	3.18	3.01	3.01

See footnotes at end of table.

**Table 23. Average City Gate Price by State, 1991-1993 (Continued)**  
(Dollars per Thousand Cubic Feet)

State	May 1992	April 1992	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Alabama .....	3.01	2.80	2.68	3.06	3.16	3.11	3.37	2.86
Alaska .....	.33	.33	.34	.36	.36	.32	.28	.33
Arizona .....	1.57	1.98	2.12	2.08	2.34	2.45	2.52	2.29
Arkansas .....	2.43	2.38	2.62	2.61	2.87	2.45	2.37	2.42
California .....	2.47	2.88	2.37	2.56	2.87	2.90	3.25	2.78
Colorado .....	3.45	2.75	2.67	2.60	2.67	2.85	2.66	2.69
Connecticut .....	4.76	3.75	3.18	3.37	3.39	3.50	3.40	3.27
Delaware .....	2.59	2.55	2.62	1.81	3.01	2.54	2.83	3.08
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	2.29	2.39	2.34	2.31	2.56	2.51	2.68	2.66
Georgia .....	2.90	2.57	2.61	3.79	3.27	3.38	3.36	3.38
Hawaii .....	7.60	7.64	7.40	7.22	7.53	8.74	8.93	8.64
Idaho .....	2.55	1.94	2.28	2.17	1.96	2.14	2.07	2.04
Illinois .....	2.72	2.97	2.71	2.99	3.52	2.91	3.36	2.99
Indiana .....	2.71	2.57	2.74	2.79	3.07	3.05	3.32	2.99
Iowa .....	3.77	2.48	2.72	2.58	2.64	2.73	2.86	2.76
Kansas .....	2.32	2.28	2.09	2.74	2.73	2.62	3.10	2.76
Kentucky .....	2.89	2.89	2.85	2.89	2.95	2.83	3.00	2.83
Louisiana .....	2.49	2.33	2.09	1.97	2.36	2.57	2.59	2.48
Maine .....	2.66	2.44	2.59	3.39	3.45	3.00	3.60	2.98
Maryland .....	3.71	2.88	2.45	2.41	2.74	3.05	3.04	3.09
Massachusetts .....	3.66	2.91	2.97	3.47	3.67	3.37	3.80	3.43
Michigan .....	2.89	2.93	3.19	3.11	3.21	3.08	3.02	3.13
Minnesota .....	3.02	2.26	2.47	2.30	2.68	2.63	2.95	2.54
Mississippi .....	2.48	2.29	2.12	2.08	2.42	2.55	2.70	2.55
Missouri .....	2.84	2.60	2.59	2.45	2.88	2.92	3.04	2.98
Montana .....	4.03	3.63	3.58	3.57	3.57	3.69	3.52	3.50
Nebraska .....	3.09	2.47	2.46	2.37	2.71	2.75	2.88	2.62
Nevada .....	2.65	2.09	2.20	2.13	2.20	2.33	2.26	2.19
New Hampshire .....	3.31	2.92	2.93	4.00	3.88	3.40	4.01	3.31
New Jersey .....	3.19	2.66	2.58	2.81	3.15	3.14	3.05	3.22
New Mexico .....	2.09	2.40	1.82	1.92	2.05	2.49	2.27	2.41
New York .....	2.91	2.67	2.57	2.49	2.88	2.92	3.14	2.90
North Carolina .....	2.85	2.56	2.18	2.37	2.77	2.69	2.91	2.61
North Dakota .....	3.36	3.21	3.20	3.34	3.44	3.49	3.42	3.33
Ohio .....	3.35	2.96	2.87	2.98	2.96	3.05	3.12	3.05
Oklahoma .....	2.97	2.11	2.06	2.07	2.17	2.04	2.15	2.37
Oregon .....	2.59	2.22	2.35	2.27	2.40	2.39	2.43	2.45
Pennsylvania .....	3.62	3.06	2.77	2.72	2.86	3.27	3.03	3.14
Rhode Island .....	3.99	3.38	3.06	3.40	3.52	3.68	3.60	3.88
South Carolina .....	2.93	2.75	2.70	2.99	3.24	2.95	3.34	3.05
South Dakota .....	3.42	2.42	2.98	2.86	2.95	3.11	3.15	2.83
Tennessee .....	3.01	2.68	2.36	2.26	2.47	2.73	2.72	3.02
Texas .....	2.89	2.92	2.87	2.89	2.98	2.88	3.10	3.00
Utah .....	8.05	5.26	4.17	3.54	3.26	3.89	3.04	3.91
Vermont .....	3.04	2.76	2.65	2.76	2.76	2.87	2.78	2.98
Virginia .....	2.80	2.33	2.14	2.34	2.93	2.76	3.04	2.90
Washington .....	1.84	1.63	1.80	1.77	1.76	1.91	2.10	2.00
West Virginia .....	4.05	2.29	1.93	2.80	3.14	3.58	4.18	3.15
Wisconsin .....	3.45	3.12	3.03	2.88	3.02	3.17	3.15	3.15
Wyoming .....	3.43	3.23	2.83	2.95	2.95	3.04	2.83	2.65
Total .....	2.90	2.75	2.62	2.71	2.90	2.90	3.05	2.92

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.

**Table 24. Average Price of Natural Gas Delivered to Residential Consumers by State, 1991-1993**  
(Dollars per Thousand Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	May 1993	April 1993	March 1993	February 1993	January 1993
Alabama .....	6.53	6.25	6.83	7.74	6.59	6.15	6.49	6.53
Alaska .....	3.88	3.71	4.22	4.05	3.93	3.90	3.82	3.83
Arizona .....	6.73	6.80	6.52	8.23	7.31	6.68	6.50	6.36
Arkansas .....	5.03	4.84	4.68	5.76	5.12	5.04	5.02	4.77
California .....	6.02	5.92	6.22	6.10	5.71	5.87	6.02	6.20
Colorado .....	4.23	4.36	4.37	4.56	4.36	4.21	4.17	4.13
Connecticut .....	9.14	9.17	8.45	10.35	9.59	9.03	8.79	8.99
Delaware .....	6.17	5.76	5.65	7.09	6.25	6.01	6.05	6.09
District of Columbia .....	8.35	7.02	7.10	8.70	8.27	8.22	8.33	8.45
Florida .....	9.59	8.32	8.48	11.42	9.83	9.27	9.24	9.07
Georgia .....	6.44	6.32	6.60	8.08	6.49	6.17	6.18	6.51
Hawaii .....	17.36	17.74	23.35	17.86	17.70	17.20	16.50	17.62
Idaho .....	5.06	5.16	5.04	5.49	5.30	5.02	4.98	4.93
Illinois .....	5.22	4.68	4.97	6.98	5.63	4.88	5.02	5.08
Indiana .....	5.58	5.22	5.57	6.81	5.66	5.36	5.43	5.58
Iowa .....	5.34	4.82	4.49	7.04	5.92	5.27	4.89	5.11
Kansas .....	4.51	4.55	4.18	5.26	4.58	4.45	4.40	4.37
Kentucky .....	5.04	4.62	4.75	6.72	5.28	4.83	4.72	5.13
Louisiana .....	5.40	4.89	5.35	6.98	5.67	5.30	4.71	5.44
Maine .....	7.07	6.87	6.71	8.11	7.51	7.11	6.89	6.75
Maryland .....	6.81	5.76	5.94	8.05	7.02	6.43	6.66	6.88
Massachusetts .....	8.20	7.85	8.08	6.85	8.54	8.33	8.30	8.27
Michigan .....	4.55	4.71	4.93	5.37	4.67	4.46	4.42	4.43
Minnesota .....	5.16	4.36	4.29	6.10	5.35	5.03	4.95	5.13
Mississippi .....	4.66	4.41	5.21	5.76	4.66	4.36	4.44	4.80
Missouri .....	4.80	4.67	4.88	5.82	4.91	4.62	4.67	4.71
Montana .....	4.72	4.58	4.34	5.16	4.85	4.68	4.73	4.55
Nebraska .....	4.69	4.41	4.44	5.51	4.77	4.51	4.55	4.72
Nevada .....	5.21	5.34	5.34	6.01	5.54	5.23	5.06	4.96
New Hampshire .....	7.27	7.06	7.00	6.59	5.91	7.66	7.48	7.86
New Jersey .....	6.56	6.63	6.50	7.67	6.93	6.33	6.34	6.49
New Mexico .....	4.97	4.32	5.13	6.33	5.59	4.90	4.80	4.50
New York .....	7.60	7.01	6.98	8.77	7.81	7.30	7.34	7.64
North Carolina .....	6.53	5.99	5.80	7.71	6.33	6.08	6.58	6.76
North Dakota .....	4.90	4.74	4.54	5.60	5.06	4.84	4.82	4.71
Ohio .....	5.42	4.83	5.18	5.97	5.49	5.31	5.43	5.33
Oklahoma .....	4.67	4.71	4.47	5.64	4.76	4.52	4.58	4.57
Oregon .....	6.03	5.99	5.98	6.55	6.14	5.99	5.95	5.90
Pennsylvania .....	6.44	6.43	6.54	7.64	6.69	6.35	6.35	6.18
Rhode Island .....	7.77	7.41	7.32	8.49	7.85	7.67	7.64	7.69
South Carolina .....	7.16	7.03	6.87	7.34	6.56	6.79	7.31	7.73
South Dakota .....	5.22	4.69	4.70	5.89	5.38	5.15	5.06	5.14
Tennessee .....	5.55	5.21	4.98	6.23	5.47	5.28	5.83	5.45
Texas .....	5.53	5.42	5.46	7.50	5.76	5.32	5.50	5.26
Utah .....	5.06	5.49	5.46	4.82	4.89	5.15	5.08	5.14
Vermont .....	5.93	6.54	5.97	6.46	6.08	5.94	5.96	5.59
Virginia .....	7.25	6.13	6.55	9.30	7.49	6.80	7.18	7.16
Washington .....	4.82	4.78	4.43	5.37	5.03	4.80	4.76	4.59
West Virginia .....	6.07	6.12	6.34	6.88	6.18	5.97	5.93	6.00
Wisconsin .....	6.07	5.50	5.58	7.36	6.15	5.96	5.96	5.91
Wyoming .....	4.46	4.55	4.57	4.69	4.54	4.44	4.43	4.36
Total .....	5.82	5.59	5.67	6.70	5.98	5.67	5.71	5.71

See footnotes at end of table.

**Table 24. Average Price of Natural Gas Delivered to Residential Consumers by State, 1991-1993 (Continued)**  
**(Dollars per Thousand Cubic Feet)**

State	Total 1992	December 1992	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992
Alabama .....	6.65	6.37	7.30	8.30	8.87	8.99	8.88	7.94
Alaska .....	3.79	3.70	3.74	3.79	4.02	4.54	4.20	4.03
Arizona .....	7.23	6.54	7.58	9.18	9.63	9.86	9.53	9.01
Arkansas .....	5.08	4.72	5.29	6.38	6.84	6.81	6.45	6.15
California .....	5.95	5.78	5.58	6.33	6.27	6.19	6.25	6.26
Colorado .....	4.52	4.13	4.46	5.32	5.84	6.01	5.73	5.20
Connecticut .....	8.99	7.71	7.87	8.44	10.70	11.25	10.71	10.58
Delaware .....	6.14	6.22	6.44	7.20	8.05	8.08	7.44	7.39
District of Columbia .....	7.37	8.05	8.32	8.85	8.90	7.14	6.56	7.00
Florida .....	9.11	8.74	10.34	11.51	11.63	11.41	11.14	10.83
Georgia .....	6.40	6.11	6.33	7.64	3.87	8.38	8.30	7.88
Hawaii .....	18.03	18.05	18.42	18.60	18.46	18.52	18.19	17.71
Idaho .....	5.24	4.90	5.25	5.63	6.01	6.63	6.24	6.19
Illinois .....	5.09	5.14	5.42	5.60	6.37	6.87	6.91	6.45
Indiana .....	5.42	5.56	5.18	5.46	6.87	6.99	6.89	6.44
Iowa .....	5.22	5.29	5.62	6.90	7.66	7.88	7.56	6.71
Kansas .....	4.70	4.45	4.73	5.34	5.83	5.94	5.97	5.42
Kentucky .....	4.99	5.04	5.00	6.34	6.96	6.42	6.24	5.79
Louisiana .....	5.56	5.76	6.63	7.76	7.26	7.35	6.97	6.71
Maine .....	6.93	7.11	6.88	6.76	7.11	7.63	7.49	6.75
Maryland .....	6.38	6.94	6.76	7.37	8.73	8.45	8.11	7.52
Massachusetts .....	7.85	8.36	8.53	6.67	7.63	7.72	7.54	7.04
Michigan .....	4.88	4.57	4.81	5.21	6.24	6.49	6.36	5.82
Minnesota .....	4.82	5.18	5.41	6.02	5.91	5.96	5.54	5.49
Mississippi .....	4.70	4.95	5.51	5.84	5.28	5.37	5.13	4.99
Missouri .....	5.03	4.80	5.33	6.23	6.91	6.97	6.75	6.23
Montana .....	4.77	4.57	4.73	5.10	5.41	5.97	5.74	5.53
Nebraska .....	4.78	4.87	5.12	5.73	6.12	6.20	5.86	5.44
Nevada .....	5.59	5.03	5.68	6.76	7.06	7.37	6.89	6.81
New Hampshire .....	7.59	8.04	9.15	8.13	9.02	9.21	9.14	8.63
New Jersey .....	6.92	6.78	6.97	7.21	8.48	8.75	8.66	8.39
New Mexico .....	4.74	4.59	5.18	6.46	6.83	6.90	6.65	6.06
New York .....	7.60	7.72	8.74	8.68	9.99	10.35	9.77	8.76
North Carolina .....	6.48	6.56	6.96	7.52	9.78	9.94	9.37	7.92
North Dakota .....	5.00	4.85	4.98	5.64	6.26	6.75	6.33	6.04
Ohio .....	5.18	5.35	5.49	5.73	6.48	6.94	6.24	5.89
Oklahoma .....	4.96	4.58	4.84	6.17	6.74	6.87	6.62	6.32
Oregon .....	6.13	5.91	6.15	6.65	7.25	7.62	7.30	6.94
Pennsylvania .....	6.63	6.22	6.41	6.92	8.40	9.04	9.00	8.20
Rhode Island .....	7.68	7.62	7.86	8.28	9.01	9.53	8.75	8.45
South Carolina .....	7.12	7.02	7.56	7.33	8.64	8.81	8.56	7.84
South Dakota .....	5.11	5.26	5.33	6.05	6.32	6.62	6.27	6.00
Tennessee .....	5.42	5.33	5.92	6.27	7.01	7.12	6.80	6.37
Texas .....	5.78	5.26	6.00	7.19	7.35	7.48	7.28	7.02
Utah .....	5.46	5.23	5.17	5.37	5.89	5.98	5.88	5.82
Vermont .....	6.70	6.36	6.73	7.14	8.02	8.42	8.22	7.78
Virginia .....	6.71	7.17	7.12	8.01	9.93	9.25	9.06	7.92
Washington .....	5.00	4.60	4.94	5.57	6.34	7.04	7.17	6.24
West Virginia .....	6.51	7.93	6.38	6.76	8.17	8.77	7.68	7.54
Wisconsin .....	5.75	5.92	6.21	6.62	6.83	6.84	6.44	6.34
Wyoming .....	4.68	4.38	4.61	5.05	5.53	5.92	5.65	5.24
Total .....	5.86	5.71	5.99	6.20	7.11	7.40	7.23	6.82

See footnotes at end of table.

**Table 24. Average Price of Natural Gas Delivered to Residential Consumers by State, 1991-1993 (Continued)**  
(Dollars per Thousand Cubic Feet)

State	May 1992	April 1992	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Alabama .....	6.93	6.19	6.64	5.96	6.14	7.05	6.34	6.71
Alaska .....	3.83	3.75	3.69	3.68	3.69	4.18	3.70	3.75
Arizona .....	8.52	7.42	6.85	6.47	6.39	6.99	6.50	7.34
Arkansas .....	5.52	4.96	5.04	4.59	4.57	4.98	4.79	4.88
California .....	5.97	5.50	5.74	6.01	6.13	6.27	6.21	5.92
Colorado .....	4.92	4.48	4.34	4.26	4.21	4.59	4.35	4.62
Connecticut .....	9.87	9.08	8.92	9.21	9.17	8.74	8.54	8.66
Delaware .....	6.51	5.98	5.80	5.52	5.50	5.86	5.49	5.99
District of Columbia .....	7.71	6.86	7.01	6.85	7.09	7.07	6.93	7.17
Florida .....	9.93	8.77	8.59	7.64	7.89	8.98	8.10	9.00
Georgia .....	6.96	6.29	6.25	6.51	6.08	6.70	6.21	5.98
Hawaii .....	18.04	17.07	17.48	17.92	18.12	22.93	22.63	23.11
Idaho .....	5.57	5.43	5.31	5.06	4.96	5.19	4.95	5.28
Illinois .....	5.52	4.68	4.33	4.76	4.66	4.95	4.51	4.48
Indiana .....	5.95	5.32	4.78	5.42	5.12	5.46	5.04	4.67
Iowa .....	5.67	4.68	4.44	4.31	4.73	4.81	4.81	4.77
Kansas .....	5.13	4.61	4.58	4.55	4.34	4.38	4.19	4.38
Kentucky .....	4.98	4.69	4.54	4.46	4.67	4.87	4.67	4.67
Louisiana .....	6.22	4.82	4.92	4.47	4.93	5.77	5.60	5.86
Maine .....	6.77	7.07	6.89	6.78	6.86	6.86	7.01	6.95
Maryland .....	6.21	5.36	5.62	5.85	5.87	6.16	5.94	5.93
Massachusetts .....	6.13	8.32	8.02	7.96	8.04	8.11	8.47	8.77
Michigan .....	5.10	4.73	4.67	4.66	4.64	5.07	4.69	4.87
Minnesota .....	4.84	4.33	4.16	4.14	4.57	4.52	4.70	4.71
Mississippi .....	5.11	4.35	4.27	4.32	4.44	5.21	4.83	4.99
Missouri .....	5.32	4.60	4.59	4.60	4.64	5.14	4.74	4.85
Montana .....	5.02	4.69	4.62	4.49	4.44	4.52	4.40	4.41
Nebraska .....	4.88	4.38	4.23	4.25	4.54	4.64	4.63	4.68
Nevada .....	6.41	5.68	5.29	5.18	5.10	5.61	5.19	5.77
New Hampshire .....	7.87	6.98	7.02	6.91	6.94	7.14	7.16	7.38
New Jersey .....	7.44	6.69	6.02	6.73	6.71	6.73	6.11	6.02
New Mexico .....	5.36	4.51	4.28	4.18	4.11	5.40	4.37	5.72
New York .....	7.45	6.84	6.94	6.88	7.15	7.35	7.14	7.44
North Carolina .....	6.60	5.48	5.96	5.86	6.27	6.24	6.57	6.06
North Dakota .....	5.21	4.15	4.69	4.62	4.67	4.82	4.75	4.88
Ohio .....	5.24	4.81	4.78	4.64	4.93	5.28	5.01	5.06
Oklahoma .....	5.90	4.98	4.80	4.45	4.44	4.72	4.54	4.52
Oregon .....	6.47	6.20	6.02	5.91	5.81	6.13	5.93	6.17
Pennsylvania .....	7.25	6.60	6.34	6.39	6.18	6.76	6.30	6.57
Rhode Island .....	7.78	7.46	7.36	7.33	7.33	7.63	7.47	7.76
South Carolina .....	6.83	6.41	7.61	7.04	7.04	6.98	6.88	6.58
South Dakota .....	4.61	4.75	4.57	4.56	4.91	4.94	5.00	4.92
Tennessee .....	5.71	5.18	5.46	5.21	4.96	5.19	5.11	5.13
Texas .....	6.85	6.03	5.56	5.05	5.05	5.71	5.24	5.43
Utah .....	5.50	5.52	5.66	5.45	5.40	5.44	4.85	5.35
Vermont .....	7.05	6.68	6.59	6.54	6.22	6.23	6.31	6.49
Virginia .....	6.68	5.68	5.74	6.31	6.34	6.80	6.49	6.45
Washington .....	5.46	5.00	4.81	4.67	4.52	4.68	4.49	4.68
West Virginia .....	6.66	6.18	6.12	6.00	6.01	6.50	5.97	6.27
Wisconsin .....	5.62	5.39	5.41	5.38	5.70	5.61	5.71	5.68
Wyoming .....	4.92	4.61	4.52	4.48	4.49	4.74	4.49	4.75
Total .....	6.14	5.61	5.48	5.53	5.53	5.82	5.51	5.51

R = Revised Data.

NA = Not Available.

Notes: Data for 1991 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.

**Table 25. Average Price of Natural Gas Sold to Commercial Consumers by State, 1991-1993**  
(Dollars per Thousand Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	May 1993	April 1993	March 1993	February 1993	January 1993
Alabama .....	5.88	5.45	5.89	6.33	5.83	5.69	5.89	5.92
Alaska .....	2.84	2.67	3.06	2.73	2.83	2.79	2.92	2.89
Arizona .....	5.06	5.26	5.00	5.03	5.03	5.10	5.05	5.08
Arkansas .....	4.30	4.33	4.28	4.41	4.35	4.32	4.33	4.20
California .....	5.90	5.60	5.86	5.24	5.50	6.19	5.43	6.93
Colorado .....	3.80	3.91	3.98	3.87	3.82	3.82	3.81	3.75
Connecticut .....	7.15	7.52	6.82	7.19	7.36	7.35	7.22	6.72
Delaware .....	5.17	4.79	4.84	5.46	5.19	5.11	5.12	5.17
District of Columbia .....	5.91	5.17	5.33	5.60	5.72	6.08	5.99	5.95
Florida .....	5.78	4.65	4.94	6.01	5.87	5.94	5.90	5.20
Georgia .....	5.68	5.59	5.85	6.14	5.60	5.23	5.79	5.92
Hawaii .....	12.95	13.15	13.97	13.27	13.18	12.79	12.40	13.17
Idaho .....	4.38	4.36	4.33	4.65	4.60	4.36	4.26	4.33
Illinois .....	4.94	4.38	4.63	6.01	5.26	4.65	4.83	4.91
Indiana .....	4.84	4.54	4.80	5.29	4.83	4.62	4.81	4.95
Iowa .....	4.59	3.87	3.87	5.48	5.03	4.64	4.18	4.49
Kansas .....	4.11	3.82	3.38	4.24	4.12	4.12	4.07	4.09
Kentucky .....	4.68	4.29	4.46	5.00	4.62	4.60	4.59	4.81
Louisiana .....	4.86	4.44	4.80	5.43	5.05	4.46	4.55	5.11
Maine .....	6.56	6.40	6.04	6.81	6.77	6.77	6.45	6.30
Maryland .....	5.74	4.91	5.14	5.91	5.68	5.57	5.77	5.85
Massachusetts .....	7.00	6.58	6.49	4.98	7.08	7.24	7.39	7.22
Michigan .....	4.33	4.50	4.65	4.77	4.35	4.27	4.27	4.32
Minnesota .....	4.54	3.74	3.73	5.11	4.70	4.43	4.32	4.60
Mississippi .....	4.12	3.81	4.48	4.54	4.14	3.97	3.93	4.25
Missouri .....	4.55	4.29	4.48	4.73	4.48	4.48	4.54	4.59
Montana .....	4.63	4.46	4.27	4.79	4.65	4.61	4.68	4.56
Nebraska .....	4.27	3.78	4.03	4.58	4.24	4.16	4.20	4.34
Nevada .....	4.27	4.30	4.33	4.15	4.30	4.30	4.31	4.28
New Hampshire .....	6.69	6.50	6.41	5.78	5.61	7.14	6.92	6.99
New Jersey .....	5.43	5.54	5.39	5.29	5.25	5.41	5.42	5.64
New Mexico .....	4.08	3.57	4.19	4.33	4.38	4.07	4.03	3.89
New York .....	6.03	5.48	5.60	6.85	6.27	5.74	5.79	6.12
North Carolina .....	5.44	4.59	4.53	5.44	5.15	5.31	5.51	5.66
North Dakota .....	4.63	4.35	4.19	5.04	4.75	4.61	4.54	4.55
Ohio .....	5.07	4.45	4.81	5.10	5.13	4.97	5.16	5.03
Oklahoma .....	4.51	4.26	3.92	4.44	4.51	4.48	4.53	4.55
Oregon .....	4.80	4.67	4.74	4.97	4.77	4.75	4.79	4.78
Pennsylvania .....	5.84	5.91	6.02	6.43	6.07	5.81	5.82	5.60
Rhode Island .....	7.06	6.82	6.61	7.48	7.01	6.94	6.94	7.21
South Carolina .....	5.95	5.54	5.78	5.49	5.67	5.85	6.12	6.26
South Dakota .....	4.44	3.92	3.97	5.21	4.52	4.34	4.24	4.44
Tennessee .....	5.14	4.92	4.75	5.12	4.95	5.03	5.13	5.41
Texas .....	4.44	4.26	4.06	3.88	4.11	4.34	4.75	4.73
Utah .....	4.16	4.55	4.48	3.82	3.96	4.23	4.19	4.26
Vermont .....	5.29	5.65	5.22	5.54	5.32	5.36	5.35	5.05
Virginia .....	5.55	4.67	5.07	5.61	5.62	5.27	5.61	5.69
Washington .....	4.28	4.20	3.99	4.52	3.95	4.33	4.36	4.28
West Virginia .....	5.66	5.81	6.00	6.41	5.84	5.56	5.55	5.55
Wisconsin .....	4.83	4.35	4.68	5.53	4.93	4.74	4.73	4.77
Wyoming .....	4.15	4.19	4.27	4.18	4.15	4.15	4.16	4.12
Total .....	5.11	4.84	4.99	5.20	5.11	5.06	5.08	5.17

See footnotes at end of table

**Table 25. Average Price of Natural Gas Sold to Commercial Consumers by State, 1991-1993 (Continued)**  
(Dollars per Thousand Cubic Feet)

State	Total 1992	December 1992	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992
Alabama .....	5.60	5.86	6.04	6.13	6.06	6.08	5.97	5.64
Alaska .....	2.64	2.68	2.67	2.59	2.50	2.63	2.48	2.54
Arizona .....	5.17	5.12	5.25	5.29	4.86	5.27	5.08	5.36
Arkansas .....	4.37	4.33	4.47	4.73	4.55	4.62	4.36	4.29
California .....	5.14	5.72	5.44	4.53	4.20	4.40	4.39	3.91
Colorado .....	3.94	3.78	3.85	4.13	4.26	4.32	4.26	4.17
Connecticut .....	7.23	6.91	6.84	6.93	6.47	6.32	6.39	7.57
Delaware .....	4.92	5.16	5.05	5.05	5.14	5.12	5.14	5.12
District of Columbia .....	5.20	5.77	5.72	5.10	4.84	4.62	4.70	4.74
Florida .....	4.84	5.21	5.20	5.15	4.99	4.81	4.81	4.83
Georgia .....	5.47	5.57	5.98	5.93	2.74	5.48	5.46	5.48
Hawaii .....	13.34	13.57	13.71	13.83	13.67	13.44	13.24	12.95
Idaho .....	4.38	4.20	4.48	4.51	4.54	4.58	4.63	4.62
Illinois .....	4.67	4.91	4.96	4.92	5.31	5.34	5.52	5.98
Indiana .....	4.56	4.87	4.36	4.23	4.97	4.66	4.81	4.77
Iowa .....	4.23	4.55	4.51	5.28	4.99	4.96	4.54	4.55
Kansas .....	3.53	3.98	3.69	3.09	2.70	2.78	2.89	2.86
Kentucky .....	4.44	4.77	4.76	4.51	4.60	4.74	4.49	4.46
Louisiana .....	4.78	5.46	5.63	5.66	4.95	5.15	4.72	4.84
Maine .....	6.26	6.53	6.21	5.44	5.62	6.02	5.55	5.53
Maryland .....	5.18	5.84	5.68	5.52	5.49	5.32	5.26	4.97
Massachusetts .....	6.07	6.95	6.62	4.45	4.31	4.00	3.89	4.94
Michigan .....	4.57	4.42	4.56	4.82	5.32	5.39	5.33	5.03
Minnesota .....	4.13	4.99	4.60	4.87	4.38	4.31	3.95	4.19
Mississippi .....	3.92	4.41	4.37	4.44	3.82	3.68	3.53	3.62
Missouri .....	4.42	4.62	4.81	4.55	4.52	4.59	4.95	4.32
Montana .....	4.56	4.48	4.55	4.68	4.86	5.08	5.03	4.96
Nebraska .....	3.93	4.28	4.24	4.18	3.90	3.75	3.67	3.95
Nevada .....	4.32	4.26	4.31	4.37	4.42	4.45	4.37	4.41
New Hampshire .....	6.71	7.15	7.40	6.73	6.92	6.82	7.21	6.48
New Jersey .....	5.55	5.78	5.77	5.48	5.34	5.27	5.02	5.36
New Mexico .....	3.56	3.90	3.54	3.40	3.28	3.19	3.50	4.07
New York .....	5.65	6.04	6.38	5.61	5.52	5.78	5.71	6.02
North Carolina .....	4.83	5.46	5.39	4.81	4.96	4.87	4.92	4.84
North Dakota .....	4.52	4.59	4.68	4.89	4.96	5.15	5.00	4.92
Ohio .....	4.66	5.10	5.03	4.96	5.14	5.23	4.63	4.80
Oklahoma .....	4.28	4.52	4.29	4.16	4.17	4.11	4.12	4.38
Oregon .....	4.72	4.71	4.68	4.72	4.88	5.01	4.94	4.81
Pennsylvania .....	5.90	5.63	5.71	5.74	6.27	6.54	6.78	6.61
Rhode Island .....	6.58	6.94	7.57	7.36	5.09	5.08	5.32	5.71
South Carolina .....	5.48	5.90	5.96	5.21	5.26	5.22	5.24	5.22
South Dakota .....	4.18	4.43	4.44	4.83	4.61	4.61	4.39	4.03
Tennessee .....	5.00	5.49	5.32	5.21	5.13	5.21	4.82	4.86
Texas .....	4.23	4.78	4.69	4.25	4.16	3.70	3.57	4.06
Utah .....	4.46	4.33	4.26	4.10	4.29	4.39	4.42	4.44
Vermont .....	5.67	5.49	5.55	5.61	5.73	6.01	6.15	6.20
Virginia .....	4.86	5.59	5.20	5.35	5.00	5.02	4.99	4.45
Washington .....	4.20	3.75	4.32	4.44	4.49	4.58	4.52	4.51
West Virginia .....	5.96	5.80	5.97	6.29	7.47	7.59	7.55	7.03
Wisconsin .....	4.51	4.71	4.97	5.20	5.18	5.17	4.68	4.87
Wyoming .....	4.21	4.16	4.23	4.31	4.31	4.33	4.26	4.26
Total .....	4.87	5.11	5.11	4.64	4.69	4.72	4.63	4.72

See footnotes at end of table

**Table 25. Average Price of Natural Gas Sold to Commercial Consumers by State, 1991-1993 (Continued)**  
**(Dollars per Thousand Cubic Feet)**

State	May 1992	April 1992	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Alabama .....	5.54	5.32	5.53	5.31	5.59	5.74	5.54	5.43
Alaska .....	2.61	2.65	2.70	2.70	2.68	2.89	2.64	2.60
Arizona .....	5.73	5.33	5.26	5.14	5.13	5.07	5.08	5.16
Arkansas .....	4.25	4.43	4.37	4.28	4.30	4.35	4.39	4.31
California .....	3.77	5.92	5.93	8.64	4.80	5.50	5.92	6.31
Colorado .....	4.10	3.95	3.91	3.88	3.86	4.04	3.97	4.04
Connecticut .....	7.23	7.23	7.23	7.79	7.80	6.90	7.10	6.83
Delaware .....	4.99	4.87	4.55	4.97	4.70	4.81	4.57	4.75
District of Columbia .....	5.02	5.02	5.08	5.38	5.21	5.17	5.15	5.21
Florida .....	4.31	4.71	4.67	4.71	4.79	4.92	5.09	5.17
Georgia .....	5.29	5.23	5.65	5.88	5.61	5.67	5.61	5.20
Hawaii .....	13.34	12.57	12.87	13.51	13.46	13.36	13.09	13.02
Idaho .....	4.59	4.58	4.35	4.29	4.25	4.42	4.31	4.63
Illinois .....	4.83	4.05	4.14	4.55	4.47	4.56	4.23	4.16
Indiana .....	4.69	4.54	4.08	4.84	4.57	4.61	4.44	3.99
Iowa .....	4.20	3.83	3.71	3.69	4.10	3.99	4.24	4.05
Kansas .....	3.16	3.59	4.00	4.14	3.98	3.32	4.25	2.78
Kentucky .....	4.19	4.26	4.15	4.26	4.42	4.44	4.42	4.34
Louisiana .....	4.51	4.06	4.60	4.27	4.67	4.90	5.05	4.84
Maine .....	5.59	6.44	6.44	6.82	6.33	6.02	6.36	6.12
Maryland .....	4.75	4.59	4.84	5.02	5.10	5.04	5.06	4.88
Massachusetts .....	4.78	6.53	6.78	6.93	6.94	6.17	7.10	6.73
Michigan .....	4.63	4.45	4.48	4.51	4.49	4.70	4.55	4.57
Minnesota .....	3.98	3.70	3.51	3.59	3.99	3.81	4.14	3.94
Mississippi .....	3.81	3.65	3.69	3.82	3.96	4.28	4.26	4.06
Missouri .....	4.22	4.08	4.26	4.36	4.39	4.50	4.41	4.32
Montana .....	4.68	4.52	4.45	4.40	4.41	4.35	4.38	4.35
Nebraska .....	3.72	3.67	3.47	3.75	4.09	3.87	4.08	4.06
Nevada .....	4.40	4.33	4.26	4.29	4.30	4.34	4.30	4.40
New Hampshire .....	7.00	6.44	6.46	6.43	6.44	6.35	6.53	6.59
New Jersey .....	5.39	5.55	5.08	5.75	5.82	5.21	4.84	4.75
New Mexico .....	3.62	3.45	3.67	3.70	3.43	4.15	3.60	4.11
New York .....	5.72	5.26	5.20	5.58	5.71	5.47	5.62	5.41
North Carolina .....	4.53	4.19	4.36	4.60	5.01	4.53	5.02	4.60
North Dakota .....	4.57	4.32	4.26	4.30	4.40	4.34	4.46	4.52
Ohio .....	4.50	4.38	4.35	4.35	4.63	4.76	4.67	4.61
Oklahoma .....	4.35	4.40	4.38	4.20	4.15	3.91	3.92	3.94
Oregon .....	4.72	4.70	4.67	4.65	4.65	4.75	4.67	4.67
Pennsylvania .....	6.29	6.18	5.81	5.90	5.71	6.00	5.73	5.76
Rhode Island .....	5.76	7.20	6.74	7.05	7.01	6.02	6.60	7.26
South Carolina .....	4.97	5.26	5.75	5.71	5.66	5.56	5.58	5.34
South Dakota .....	4.18	3.81	3.69	3.84	4.14	4.04	4.21	4.09
Tennessee .....	4.73	4.73	4.88	4.95	5.10	4.76	4.83	4.74
Texas .....	3.94	3.97	4.26	4.33	4.52	4.01	4.26	4.25
Utah .....	4.29	4.46	4.75	4.56	4.53	4.50	4.56	4.38
Vermont .....	5.96	5.66	5.62	5.69	5.53	5.24	5.30	5.10
Virginia .....	4.15	4.21	4.39	5.04	5.06	4.85	5.04	4.92
Washington .....	4.37	4.28	4.18	4.17	4.13	4.06	4.11	4.11
West Virginia .....	6.30	5.87	5.79	5.71	5.75	6.11	5.73	5.70
Wisconsin .....	4.23	4.25	4.28	4.25	4.58	4.62	4.71	4.56
Wyoming .....	4.18	4.20	4.17	4.17	4.21	4.31	4.25	4.42
Total .....	4.59	4.78	4.77	5.04	4.85	4.81	4.84	4.71

R = Revised Data.

NA = Not Available.

Notes: Data for 1991 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 28 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries.

Source: Form EIA-857.

**Table 26. Average Price of Natural Gas Sold to Industrial Consumers by State, 1991-1993**  
(Dollars per Thousand Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	May 1993	April 1993	March 1993	February 1993	January 1993
Alabama .....	3.52	2.83	3.14	3.79	3.47	3.47	3.38	3.59
Alaska .....	1.35	1.18	1.18	1.35	1.35	1.35	1.35	1.35
Arizona .....	3.97	4.15	3.39	4.03	3.92	3.87	3.98	3.97
Arkansas .....	3.20	3.13	3.11	3.04	3.15	3.22	3.31	3.24
California .....	3.80	4.03	4.12	3.52	3.82	3.31	3.77	4.85
Colorado .....	2.35	2.37	2.33	2.48	2.26	2.27	2.27	2.49
Connecticut .....	4.87	5.18	5.00	4.42	4.77	4.96	5.01	5.04
Delaware .....	3.36	3.02	3.20	3.69	3.31	3.26	3.22	3.32
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	3.76	3.11	3.07	4.03	3.86	3.82	3.64	3.48
Georgia .....	4.06	3.23	3.51	4.49	4.11	3.99	3.79	4.12
Hawaii .....	--	--	--	--	--	--	--	--
Idaho .....	--	--	2.97	--	--	--	--	--
Illinois .....	4.31	3.79	4.11	4.64	4.81	4.23	4.15	4.12
Indiana .....	3.46	3.41	3.96	3.12	3.36	3.41	3.48	3.86
Iowa .....	3.82	3.13	2.61	3.75	4.44	3.85	3.47	3.84
Kansas .....	2.73	2.46	2.61	2.70	2.60	2.84	2.65	2.87
Kentucky .....	3.75	3.37	3.58	3.65	3.44	3.76	3.83	4.23
Louisiana .....	2.21	1.60	1.78	2.62	2.24	1.96	1.96	2.27
Maine .....	5.11	4.40	4.57	5.31	4.75	5.49	5.40	4.76
Maryland .....	3.88	3.28	3.60	4.33	4.67	3.96	3.88	3.25
Massachusetts .....	5.86	5.08	4.57	4.17	5.81	6.44	6.62	6.38
Michigan .....	4.04	4.14	4.02	4.16	4.06	4.02	4.02	4.04
Minnesota .....	3.28	2.81	2.78	3.40	3.34	3.03	3.33	3.33
Mississippi .....	2.90	2.26	2.42	3.34	2.94	2.76	2.71	2.80
Missouri .....	4.21	3.77	4.24	4.10	4.19	4.16	4.27	4.26
Montana .....	3.88	3.29	3.28	3.97	3.82	3.81	3.81	3.99
Nebraska .....	3.22	2.50	2.85	3.94	3.17	2.97	3.04	3.24
Nevada .....	3.96	4.17	4.17	4.26	4.12	3.80	4.09	3.69
New Hampshire .....	4.85	4.94	4.82	3.00	.07	6.06	5.91	5.66
New Jersey .....	3.71	3.60	4.18	3.61	3.44	3.83	3.70	3.91
New Mexico .....	3.81	3.00	3.71	3.83	3.92	4.01	3.78	3.67
New York .....	5.75	5.27	4.96	5.98	5.73	5.60	5.64	5.93
North Carolina .....	3.93	3.07	3.42	3.80	3.62	3.87	4.14	4.22
North Dakota .....	3.34	3.06	3.17	3.49	3.44	3.28	3.23	3.37
Ohio .....	4.63	3.95	4.27	4.52	4.47	4.52	4.72	4.85
Oklahoma .....	2.12	1.87	1.69	2.12	2.07	2.12	2.09	2.19
Oregon .....	3.56	3.31	3.40	3.62	3.52	3.54	3.54	3.59
Pennsylvania .....	3.79	4.05	4.15	3.72	3.66	3.78	3.91	3.84
Rhode Island .....	5.87	5.00	5.92	4.99	5.78	6.08	6.09	6.40
South Carolina .....	3.41	2.81	3.21	3.53	3.29	3.25	3.46	3.53
South Dakota .....	3.58	3.34	3.33	4.24	3.84	3.46	3.35	3.42
Tennessee .....	3.65	2.99	3.27	3.78	3.49	3.57	3.54	3.85
Texas .....	2.37	1.77	1.95	2.80	2.46	2.23	2.06	2.31
Utah .....	3.15	4.36	3.81	2.91	2.92	3.27	3.24	3.31
Vermont .....	3.66	2.94	3.24	3.65	3.59	3.54	3.67	3.81
Virginia .....	4.50	3.94	4.27	4.30	4.26	4.60	4.57	4.87
Washington .....	3.07	2.77	2.86	3.45	3.19	2.89	2.92	2.99
West Virginia .....	3.08	3.46	3.20	3.24	2.73	2.68	3.90	3.04
Wisconsin .....	3.96	2.58	3.25	4.33	3.99	3.85	3.83	3.97
Wyoming .....	2.82	2.63	2.91	2.87	2.80	2.81	2.74	2.88
Total .....	3.16	2.69	2.84	3.24	3.13	3.09	3.12	3.25

See footnotes at end of table.

**Table 26. Average Price of Natural Gas Sold to Industrial Consumers by State, 1991-1993 (Continued)**  
(Dollars per Thousand Cubic Feet)

State	Total 1992	December 1992	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992
Alabama .....	3.01	3.54	3.50	3.57	3.15	3.10	2.64	2.73
Alaska .....	1.18	1.19	1.17	1.17	1.17	1.16	1.17	1.16
Arizona .....	4.14	4.11	4.21	4.11	4.21	4.14	4.21	4.23
Arkansas .....	3.12	3.23	3.31	3.23	3.05	3.02	2.99	2.86
California .....	3.66	3.83	3.12	3.46	3.48	3.29	3.49	3.40
Colorado .....	2.24	2.36	2.33	2.38	1.66	2.34	1.91	2.22
Connecticut .....	4.79	4.92	4.73	4.52	3.99	4.15	4.21	4.40
Delaware .....	3.20	3.54	3.42	3.63	3.17	3.12	2.93	3.10
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	3.21	3.50	3.59	3.89	3.27	3.15	2.96	2.80
Georgia .....	3.41	4.36	4.21	4.30	2.86	3.29	3.14	3.13
Hawaii .....	--	--	--	--	--	--	--	--
Idaho .....	--	--	--	--	--	--	--	--
Illinois .....	3.73	4.14	3.79	3.21	3.17	3.84	3.68	4.06
Indiana .....	3.30	4.09	3.44	2.95	3.29	2.78	2.99	2.94
Iowa .....	3.47	3.76	3.75	4.18	3.67	3.41	3.15	3.60
Kansas .....	2.60	3.03	2.87	2.87	2.71	2.58	2.41	2.40
Kentucky .....	3.29	4.30	4.07	3.23	3.17	3.20	2.86	2.87
Louisiana .....	1.91	2.49	2.65	2.64	2.15	1.94	1.82	1.80
Maine .....	4.14	4.97	4.50	3.88	3.55	3.49	3.36	3.65
Maryland .....	3.54	4.13	3.75	3.65	3.37	3.80	3.77	3.77
Massachusetts .....	4.33	5.83	5.38	3.57	3.26	3.19	3.58	3.04
Michigan .....	4.13	4.08	4.13	4.20	4.38	4.22	4.06	4.14
Minnesota .....	3.06	3.36	3.54	3.60	3.23	3.04	2.89	2.88
Mississippi .....	2.53	3.06	3.10	3.37	2.65	2.58	2.23	2.42
Missouri .....	3.82	4.45	4.46	3.46	3.81	3.45	3.42	3.57
Montana .....	3.53	3.93	4.05	4.04	3.92	3.66	3.54	3.46
Nebraska .....	2.78	3.28	3.33	3.54	2.93	3.13	2.79	2.54
Nevada .....	4.02	3.80	4.07	3.95	4.21	3.37	4.28	4.04
New Hampshire .....	4.56	5.67	5.40	4.27	3.68	3.53	3.71	3.73
New Jersey .....	3.43	4.39	3.46	3.29	3.05	2.85	2.97	2.96
New Mexico .....	3.04	3.56	3.11	2.96	2.60	2.69	2.98	2.81
New York .....	5.31	5.69	5.76	5.06	4.82	5.38	4.96	5.16
North Carolina .....	3.35	4.20	4.09	3.58	3.42	3.21	3.14	3.10
North Dakota .....	3.27	3.47	3.74	3.71	3.43	3.27	3.19	3.13
Ohio .....	4.15	4.71	4.65	4.15	4.32	4.15	4.46	3.84
Oklahoma .....	1.99	2.07	2.15	2.27	2.01	1.94	1.98	1.83
Oregon .....	3.34	3.56	3.45	3.41	3.29	3.28	3.29	3.31
Pennsylvania .....	3.88	4.02	3.72	3.68	3.72	3.78	3.99	4.37
Rhode Island .....	4.68	5.88	6.45	4.37	3.76	3.30	4.08	3.83
South Carolina .....	2.95	3.75	3.50	3.48	3.07	2.96	2.70	2.74
South Dakota .....	<sup>b</sup> 3.59	3.37	3.58	4.54	3.99	4.05	<sup>b</sup> 3.75	3.75
Tennessee .....	3.20	3.98	3.86	3.73	3.56	3.21	2.92	3.14
Texas .....	2.07	2.54	2.49	2.88	2.25	2.19	1.88	1.91
Utah .....	3.95	3.64	3.70	3.40	3.59	3.62	3.69	3.78
Vermont .....	3.28	3.81	3.75	3.56	3.56	3.57	3.32	3.22
Virginia .....	4.02	5.04	3.94	5.02	3.91	4.25	4.15	2.96
Washington .....	2.78	2.58	3.00	3.23	2.84	2.60	2.61	2.70
West Virginia .....	3.63	3.88	3.82	3.71	3.69	3.96	3.74	3.37
Wisconsin .....	3.81	4.18	4.40	4.59	3.94	3.68	3.52	3.49
Wyoming .....	2.68	2.67	2.70	2.81	2.86	2.80	2.81	2.68
Total .....	2.81	3.34	3.24	2.98	2.78	2.68	2.50	2.52

See footnotes at end of table.

**Table 26. Average Price of Natural Gas Sold to Industrial Consumers by State, 1991-1993 (Continued)**  
(Dollars per Thousand Cubic Feet)

State	May 1992	April 1992	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Alabama .....	2.82	2.76	2.63	2.80	3.22	3.00	3.42	3.05
Alaska .....	1.16	1.16	1.19	1.20	1.20	1.18	1.17	1.0
Arizona .....	4.16	4.11	4.24	4.09	4.14	3.51	4.05	4.06
Arkansas .....	2.92	3.07	3.11	3.24	3.24	3.06	3.15	3.19
California .....	3.04	3.99	4.27	4.42	4.56	3.96	4.71	3.92
Colorado .....	2.35	2.33	2.33	2.34	2.48	2.34	2.63	2.46
Connecticut .....	4.59	4.81	5.25	5.47	5.47	4.84	5.33	4.98
Delaware .....	2.90	2.98	2.97	3.04	3.20	3.09	3.28	3.22
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	2.96	3.06	3.21	3.16	3.18	3.11	3.41	2.45
Georgia .....	2.96	2.80	3.21	3.65	3.81	3.34	3.85	3.56
Hawaii .....	--	--	--	--	--	--	--	--
Idaho .....	--	--	--	--	--	2.94	2.93	2.95
Illinois .....	3.57	3.67	3.64	4.03	3.83	3.77	3.47	3.21
Indiana .....	2.90	3.26	3.30	3.77	3.78	3.53	3.73	3.19
Iowa .....	3.09	3.07	3.07	2.98	3.36	2.65	3.50	3.21
Kansas .....	2.32	2.33	2.36	2.61	2.73	2.67	2.73	2.91
Kentucky .....	2.90	3.24	3.35	3.66	3.66	3.23	3.49	3.33
Louisiana .....	1.70	1.51	1.35	1.46	1.98	1.74	2.10	2.00
Maine .....	3.43	3.93	3.88	5.92	5.41	4.69	5.14	4.43
Maryland .....	3.96	3.00	3.11	3.41	3.33	3.51	3.45	3.75
Massachusetts .....	3.68	4.10	5.61	6.38	6.20	3.99	5.18	4.72
Michigan .....	3.99	4.11	4.03	4.26	4.21	4.00	3.92	3.87
Minnesota .....	2.72	2.60	2.53	2.96	3.10	2.78	2.99	2.90
Mississippi .....	2.32	2.20	2.12	2.14	2.54	2.35	2.65	2.49
Missouri .....	3.61	3.38	3.62	3.89	4.14	4.08	4.05	3.82
Montana .....	3.37	3.25	3.26	3.17	3.41	3.22	3.79	3.66
Nebraska .....	2.39	2.33	2.18	2.51	2.96	2.76	3.13	2.99
Nevada .....	4.11	4.07	4.09	4.27	4.28	4.21	4.36	4.08
New Hampshire .....	4.77	4.15	5.02	5.52	5.51	4.31	5.24	4.67
New Jersey .....	2.98	3.43	3.44	4.05	4.00	3.65	3.98	3.41
New Mexico .....	2.59	2.94	3.17	3.30	3.38	3.53	3.32	3.62
New York .....	5.32	5.23	4.97	5.50	5.31	4.72	4.87	4.56
North Carolina .....	2.90	2.88	2.86	3.00	3.59	3.24	3.57	3.38
North Dakota .....	3.06	2.86	2.82	3.08	3.36	3.19	3.37	3.31
Ohio .....	3.88	3.82	3.79	3.89	4.28	4.09	4.15	3.98
Oklahoma .....	1.79	1.96	1.86	2.00	1.81	1.69	1.75	1.83
Oregon .....	3.27	3.26	3.29	3.32	3.39	3.41	3.44	3.47
Pennsylvania .....	4.21	4.00	4.02	4.14	3.97	4.02	3.86	3.67
Rhode Island .....	3.84	4.10	5.59	6.42	6.35	5.40	6.24	5.44
South Carolina .....	2.59	2.55	2.74	2.88	3.26	2.95	3.31	3.11
South Dakota .....	3.41	3.22	3.19	3.25	3.61	3.31	3.74	3.74
Tennessee .....	2.99	2.87	2.84	2.88	3.34	3.22	3.46	3.34
Texas .....	1.84	1.74	1.63	1.58	2.06	1.93	2.33	2.16
Utah .....	3.77	3.70	4.06	6.16	3.80	3.69	3.78	3.73
Vermont .....	3.09	2.97	2.76	2.88	3.09	2.99	3.08	2.86
Virginia .....	3.12	3.67	3.96	4.38	4.47	3.81	3.86	3.98
Washington .....	2.73	2.69	2.72	2.69	2.98	2.79	2.97	2.76
West Virginia .....	3.47	3.41	3.54	3.48	3.39	2.95	3.76	3.39
Wisconsin .....	3.40	3.38	3.51	3.52	3.93	3.16	3.62	3.38
Wyoming .....	2.59	2.60	2.64	2.63	2.67	3.03	3.05	2.94
Total .....	2.44	2.53	2.58	2.79	3.05	2.69	3.09	2.84

R = Revised Data.

NA = Not Available.

-- = Not Applicable.

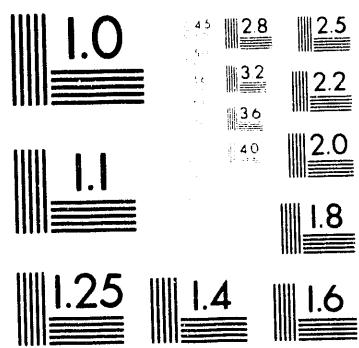
Notes: Data for 1991 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 28 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries.

Source: Form EIA-857.

**Table 27. Average Price of Natural Gas Delivered to Electric Utility<sup>a</sup> Consumers by State, 1991-1993**  
(Dollars per Thousand Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	April 1993	March 1993	February 1993	January 1993	Total 1992
Alabama .....	2.04	1.87	2.06	2.69	2.42	2.29	2.59	2.28
Alaska .....	.50	.59	.55	.63	.64	.64	.64	.57
Arizona .....	2.04	2.04	2.16	2.64	2.70	3.12	3.81	2.28
Arkansas .....	1.11	1.39	1.45	1.61	1.50	1.38	1.64	1.57
California .....	2.47	2.62	3.20	3.20	3.09	3.02	3.29	2.81
Colorado .....	1.94	2.04	2.33	2.22	2.39	2.33	2.51	2.14
Connecticut .....	4.37	2.53	3.13	8.63	6.07	3.50	6.86	2.74
Delaware .....	1.94	2.60	2.54	5.31	2.78	4.38	3.65	2.70
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	1.69	1.88	2.20	2.59	2.41	2.23	2.27	2.30
Georgia .....	2.63	2.87	3.42	3.82	3.90	3.51	3.90	R 2.90
Hawaii .....	--	--	--	--	--	--	--	--
Idaho .....	--	--	--	--	--	--	--	--
Illinois .....	2.29	2.03	2.82	2.62	3.00	3.08	2.99	2.24
Indiana .....	2.16	2.38	2.54	2.57	2.42	2.94	2.87	2.48
Iowa .....	2.28	2.66	2.98	3.33	3.30	3.34	3.37	3.08
Kansas .....	1.84	1.86	1.80	2.53	2.29	2.42	2.40	R 1.94
Kentucky .....	1.61	2.65	2.84	3.22	2.76	2.74	2.99	2.77
Louisiana .....	1.72	1.49	1.60	2.55	2.31	2.10	2.35	1.91
Maine .....	--	--	--	--	--	--	--	--
Maryland .....	2.49	2.64	2.72	3.10	2.82	2.86	3.14	2.66
Massachusetts .....	1.35	2.26	2.83	2.88	2.92	3.25	3.51	R 2.67
Michigan .....	.58	.81	.46	.38	.45	.85	.68	.81
Minnesota .....	1.87	1.73	1.72	2.68	2.38	2.52	2.81	1.85
Mississippi .....	1.66	1.61	1.80	2.30	2.23	1.98	2.06	R 1.89
Missouri .....	2.07	2.37	1.61	2.56	2.71	2.42	2.62	R 1.93
Montana .....	5.89	4.92	3.87	8.88	10.41	2.78	7.62	3.30
Nebraska .....	1.70	2.05	1.76	2.45	2.46	2.61	2.88	2.28
Nevada .....	1.86	1.53	1.89	2.22	2.42	3.11	3.17	1.91
New Hampshire .....	--	--	--	2.22	--	--	--	R 2.15
New Jersey .....	2.23	1.88	2.35	2.72	2.51	2.35	2.66	2.18
New Mexico .....	1.50	1.73	1.73	2.36	2.21	2.06	2.35	1.99
New York .....	1.96	2.36	2.55	2.87	2.76	2.66	3.02	2.48
North Carolina .....	3.37	2.71	3.19	3.38	3.71	4.11	4.16	2.96
North Dakota .....	--	--	--	4.27	--	--	--	4.18
Ohio .....	2.38	2.32	2.25	3.72	2.34	2.64	2.79	R 2.29
Oklahoma .....	2.51	3.15	3.16	3.39	3.57	3.37	3.31	3.20
Oregon .....	2.24	1.67	1.43	--	2.09	1.99	2.96	R 1.97
Pennsylvania .....	2.24	2.98	3.24	3.14	2.58	2.41	2.47	R 3.10
Rhode Island .....	--	1.98	1.98	--	--	--	--	2.20
South Carolina .....	2.80	1.53	1.86	3.18	3.20	3.61	3.78	1.73
South Dakota .....	2.00	1.43	--	--	2.62	--	--	2.88
Tennessee .....	--	--	--	--	--	--	--	--
Texas .....	1.76	2.02	2.08	2.58	2.40	2.32	2.46	R 2.25
Utah .....	1.48	1.84	1.76	1.87	1.86	1.87	2.03	1.87
Vermont .....	.68	1.75	--	2.28	3.33	3.60	3.30	2.00
Virginia .....	2.35	2.39	2.10	2.90	3.01	3.10	2.57	R 2.46
Washington .....	3.30	7.39	4.02	6.52	4.05	3.73	3.70	3.31
West Virginia .....	1.48	2.89	3.84	3.80	4.18	--	4.04	3.53
Wisconsin .....	1.66	2.13	2.94	2.66	2.33	2.68	3.22	2.43
Wyoming .....	2.64	3.45	3.29	3.41	3.20	3.21	3.25	3.33
<b>Total .....</b>	<b>1.96</b>	<b>2.13</b>	<b>2.32</b>	<b>2.75</b>	<b>2.61</b>	<b>2.55</b>	<b>2.70</b>	<b>2.37</b>

See footnotes at end of table.



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**Table 27. Average Price of Natural Gas Delivered to Electric Utility<sup>a</sup>  
Consumers by State, 1991-1993 (Continued)**  
(Dollars per Thousand Cubic Feet)

State	December 1992	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992
Alabama .....	2.88	2.79	3.20	2.43	2.36	1.98	2.15	2.05
Alaska .....	.56	.56	.56	.57	.54	.55	.57	R .55
Arizona .....	3.99	3.47	2.40	2.40	2.40	2.21	2.27	2.14
Arkansas .....	1.35	1.15	2.18	1.85	1.85	1.64	1.50	1.52
California .....	3.24	3.28	3.41	2.93	2.73	2.57	2.39	2.39
Colorado .....	2.49	2.45	2.50	1.94	1.80	1.98	1.84	1.98
Connecticut .....	6.11	7.15	6.29	6.31	2.82	2.58	2.62	2.57
Delaware .....	5.40	4.89	4.31	3.32	2.68	2.22	2.47	2.86
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	2.32	2.65	2.88	2.59	2.51	2.41	2.41	2.29
Georgia .....	4.38	4.05	4.32	2.30	2.75	2.83	2.61	2.99
Hawaii .....	--	--	--	--	--	--	--	--
Idaho .....	--	--	--	--	--	--	--	--
Illinois .....	3.11	3.05	2.93	2.39	2.43	2.37	2.29	2.07
Indiana .....	2.81	3.21	3.14	3.00	2.57	2.31	2.30	2.11
Iowa .....	3.42	3.37	3.77	3.51	3.32	2.80	3.01	2.93
Kansas .....	2.42	2.22	2.14	1.99	1.98	R 1.83	R 2.08	1.67
Kentucky .....	3.12	3.24	3.38	2.67	2.59	2.46	2.60	2.71
Louisiana .....	2.35	2.51	2.73	2.16	2.04	1.72	1.90	1.78
Maine .....	--	--	--	--	--	--	--	--
Maryland .....	4.07	3.79	3.78	2.82	2.73	2.33	2.45	2.15
Massachusetts .....	3.70	3.27	3.43	2.81	2.67	R 2.58	2.37	2.17
Michigan .....	.64	.67	.56	1.28	.51	.63	.81	1.34
Minnesota .....	2.74	2.52	3.35	1.89	1.81	1.76	1.64	1.54
Mississippi .....	2.34	2.46	2.66	2.22	R 2.17	1.87	1.97	1.72
Missouri .....	2.75	2.61	2.13	2.31	R 2.14	1.49	1.94	2.12
Montana .....	2.44	2.38	9.41	3.76	2.93	2.19	2.48	3.04
Nebraska .....	2.84	2.32	2.46	2.27	2.50	2.12	2.10	2.31
Nevada .....	3.12	2.44	2.55	1.87	2.25	1.86	1.95	1.59
New Hampshire .....	--	--	--	2.20	R 2.20	--	--	--
New Jersey .....	3.09	2.98	2.92	2.42	2.35	2.02	2.23	2.26
New Mexico .....	2.40	2.45	2.67	2.30	2.11	R 1.72	1.77	1.72
New York .....	3.21	3.12	3.22	2.55	2.39	2.06	2.30	2.28
North Carolina .....	4.15	4.10	3.22	3.15	2.83	2.78	2.83	2.52
North Dakota .....	4.46	--	--	4.05	4.30	4.03	--	--
Ohio .....	2.59	4.17	2.66	1.97	2.01	2.11	2.14	2.06
Oklahoma .....	3.25	3.76	4.11	3.29	3.19	2.92	3.08	2.72
Oregon .....	2.44	2.15	R 2.40	2.05	1.99	1.72	1.88	--
Pennsylvania .....	3.51	5.19	4.07	3.49	3.20	2.34	2.73	3.16
Rhode Island .....	--	--	--	2.84	2.45	2.45	2.27	2.13
South Carolina .....	3.72	3.33	3.30	2.74	2.46	1.91	1.71	2.56
South Dakota .....	2.95	2.92	4.04	--	2.61	--	--	--
Tennessee .....	--	--	--	--	--	--	--	--
Texas .....	2.67	2.69	2.90	2.34	2.30	R 1.99	2.06	2.03
Utah .....	2.27	1.80	1.99	1.98	1.92	1.76	1.74	1.67
Vermont .....	3.14	3.02	2.18	2.24	2.16	2.09	1.94	1.77
Virginia .....	2.70	.48	5.05	2.20	3.10	2.18	R 2.67	R 2.59
Washington .....	4.54	4.57	5.97	3.32	2.94	2.95	3.31	3.57
West Virginia .....	3.51	3.27	3.34	4.27	3.40	5.36	3.26	1.21
Wisconsin .....	3.41	3.33	3.47	2.80	2.30	2.21	2.06	2.01
Wyoming .....	3.29	3.22	3.21	3.19	3.22	3.22	3.31	3.37
Total .....	2.81	2.87	3.04	2.51	2.42	2.15	2.18	2.11

See footnotes at end of table.

**Table 27. Average Price of Natural Gas Delivered to Electric Utility<sup>a</sup> Consumers by State, 1991-1993 (Continued)**  
(Dollars per Thousand Cubic Feet)

State	April 1992	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991
Alabama .....	1.86	1.70	1.62	2.28	1.91	2.57	2.28	2.23
Alaska .....	.56	.59	.60	.62	.53	.54	.53	.52
Arizona .....	1.81	2.02	2.09	2.35	2.06	3.39	2.57	2.17
Arkansas .....	1.44	1.36	1.33	1.33	1.44	1.29	1.29	1.75
California .....	2.50	2.36	R 2.42	3.22	2.95	3.36	3.04	2.71
Colorado .....	2.02	1.81	2.26	2.20	2.14	2.34	2.10	2.08
Connecticut .....	2.25	2.23	6.29	6.30	2.16	5.45	5.17	2.27
Delaware .....	2.35	2.68	2.63	2.80	2.49	3.08	3.09	2.44
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	2.01	1.82	1.74	1.93	2.17	2.33	2.34	2.25
Georgia .....	R 2.78	3.18	3.19	3.64	2.83	3.08	2.86	3.19
Hawaii .....	--	--	--	--	--	--	--	--
Idaho .....	--	--	--	--	--	--	--	--
Illinois .....	2.03	1.69	2.10	2.64	2.14	2.59	2.44	2.26
Indiana .....	2.44	2.18	2.19	2.63	2.38	2.61	2.84	2.75
Iowa .....	2.76	2.56	2.35	3.23	2.70	3.31	3.04	3.18
Kansas .....	1.73	1.87	1.85	2.02	1.65	2.09	1.85	1.75
Kentucky .....	2.67	2.57	2.32	2.80	2.65	2.75	2.75	2.48
Louisiana .....	1.56	1.36	1.31	1.75	1.59	1.86	1.88	1.87
Maine .....	--	--	--	--	--	--	--	--
Maryland .....	2.38	2.57	2.75	3.44	2.36	3.49	3.07	2.43
Massachusetts .....	2.19	2.39	3.98	4.48	2.27	3.91	2.50	2.46
Michigan .....	.93	.71	.94	.66	.76	.91	.74	.68
Minnesota .....	1.62	1.53	1.65	2.29	1.71	2.36	2.27	2.04
Mississippi .....	1.65	1.49	1.33	R 2.26	1.61	2.08	2.07	1.90
Missouri .....	1.60	2.89	1.72	2.89	1.51	2.66	3.05	1.88
Montana .....	1.40	6.28	8.22	7.35	4.33	4.58	5.75	4.97
Nebraska .....	1.54	2.02	2.58	2.80	1.85	2.21	1.97	1.88
Nevada .....	1.43	1.53	1.45	1.94	1.78	2.16	2.01	1.98
New Hampshire .....	--	--	--	--	--	--	--	--
New Jersey .....	1.84	1.73	2.22	2.83	2.02	2.80	2.61	2.20
New Mexico .....	1.61	1.64	1.54	2.09	1.73	2.29	2.09	1.91
New York .....	2.19	2.27	2.37	2.82	2.30	3.13	2.84	2.44
North Carolina .....	2.53	2.69	2.68	2.86	2.76	2.83	2.66	3.06
North Dakota .....	--	4.28	--	--	4.36	--	4.19	--
Ohio .....	2.08	R 2.49	2.31	2.46	2.19	2.54	2.84	2.30
Oklahoma .....	2.74	2.92	3.35	3.83	2.98	3.65	2.56	3.33
Oregon .....	--	--	1.53	1.81	1.59	1.94	1.71	1.64
Pennsylvania .....	2.90	2.91	3.07	R 3.09	3.05	3.23	3.93	3.80
Rhode Island .....	2.04	1.86	--	--	2.04	--	2.43	2.33
South Carolina .....	3.15	1.46	3.29	3.45	1.53	2.44	2.92	3.19
South Dakota .....	--	--	--	2.60	1.77	--	--	--
Tennessee .....	--	--	--	--	--	--	--	--
Texas .....	1.99	1.94	1.92	2.23	2.03	2.43	2.29	2.26
Utah .....	1.82	1.83	1.88	1.82	1.72	1.85	1.80	1.77
Vermont .....	1.74	1.63	2.57	2.85	1.72	2.38	1.93	1.83
Virginia .....	2.32	2.22	R 2.43	R 2.54	1.90	2.29	2.41	2.03
Washington .....	7.71	4.18	3.13	3.01	4.02	4.02	4.02	4.02
West Virginia .....	--	3.66	3.89	3.60	3.63	3.72	3.53	3.24
Wisconsin .....	1.94	R 1.88	2.72	2.89	2.72	3.21	3.09	3.06
Wyoming .....	3.36	3.48	3.49	3.51	3.51	3.54	3.55	3.54
Total .....	2.07	1.99	2.03	2.49	2.18	2.64	2.43	2.35

<sup>a</sup> Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

b Average prices calculated from data reported on Form EIA-176.

R = Revised Data

-- = Not Applicable

Notes: Data for 1992 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 and Form EIA-176.

**Table 28. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1991-1993**

State	May 1993		April 1993		March 1993		February 1993	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	75.2	17.0	80.3	19.8	82.4	19.9	81.8	22.0
Alaska	100.0	70.8	100.0	73.4	100.0	70.1	100.0	73.3
Arizona	90.8	26.8	89.7	24.0	93.4	28.0	94.9	25.6
Arkansas	87.5	14.3	91.7	16.0	92.7	16.1	92.9	16.6
California	75.6	34.0	79.6	35.8	76.4	36.0	81.2	44.6
Colorado	94.8	30.1	95.5	34.1	96.2	32.7	96.2	34.9
Connecticut	99.2	69.5	98.0	69.9	97.0	73.5	97.5	73.4
Delaware	100.0	74.9	100.0	72.5	100.0	73.7	100.0	75.5
District of Columbia	100.0	--	100.0	--	100.0	--	100.0	--
Florida	97.5	30.5	97.3	28.5	96.5	28.6	96.6	31.0
Georgia	95.3	23.3	90.0	26.4	94.0	35.0	92.2	37.7
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	87.5	.0	88.0	.0	91.0	.0	89.9	.0
Illinois	51.6	8.4	56.4	16.0	58.4	15.4	58.4	16.9
Indiana	99.9	25.0	99.5	R 25.9	99.5	27.4	93.7	26.8
Iowa	92.3	12.9	95.9	11.9	95.5	14.9	96.2	18.1
Kansas	84.4	12.2	83.4	12.5	85.1	10.4	82.1	8.6
Kentucky	91.8	28.4	93.0	37.7	94.9	29.0	95.1	21.4
Louisiana	98.8	34.3	98.1	35.0	97.9	31.3	97.8	34.3
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	94.5	7.6	96.2	9.0	96.4	22.0	97.3	14.9
Massachusetts	99.6	60.7	99.7	56.0	99.8	54.1	100.0	58.2
Michigan	62.2	5.2	66.5	8.5	71.3	10.2	71.0	10.8
Minnesota	99.3	50.0	99.1	45.9	96.4	48.4	96.8	48.7
Mississippi	95.5	33.4	96.7	32.2	92.7	35.8	84.4	34.5
Missouri	80.1	22.4	86.8	24.2	88.8	27.2	86.3	28.5
Montana	94.9	13.8	93.9	14.1	94.9	14.9	94.1	16.1
Nebraska	97.8	29.4	91.7	24.2	93.0	42.4	R 94.4	45.4
Nevada	92.5	3.3	91.1	3.7	94.3	7.5	96.0	6.9
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	88.7	54.5	91.4	55.4	93.9	58.5	94.2	60.5
New Mexico	59.5	10.3	61.2	1.7	66.1	1.6	62.5	2.8
New York	71.3	16.0	78.7	21.9	82.8	25.9	82.2	28.0
North Carolina	100.0	94.3	100.0	95.6	100.0	92.8	100.0	93.9
North Dakota	73.3	18.9	76.8	26.2	77.3	29.5	73.8	31.4
Ohio	75.8	7.4	83.5	10.7	86.7	13.5	86.8	12.6
Oklahoma	88.2	27.2	90.2	31.0	91.0	27.1	91.3	38.1
Oregon	97.6	21.7	97.9	22.0	98.5	23.8	98.9	26.0
Pennsylvania	71.4	23.6	77.6	27.0	79.0	25.5	78.8	26.7
Rhode Island	100.0	10.4	100.0	10.7	100.0	11.6	100.0	11.8
South Carolina	100.0	55.4	100.0	58.2	100.0	67.0	100.0	70.0
South Dakota	76.4	43.6	81.2	55.1	84.4	54.3	83.9	61.4
Tennessee	97.2	38.7	95.8	45.7	95.8	47.3	96.2	44.8
Texas	74.7	32.6	83.9	30.9	84.7	35.5	86.0	33.8
Utah	100.0	10.9	100.0	11.0	100.0	10.6	100.0	11.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	89.0	21.7	86.3	16.1	88.6	14.2	90.9	15.2
Washington	90.8	42.1	94.2	45.1	93.8	44.4	93.2	45.9
West Virginia	40.5	8.4	53.2	7.7	55.9	8.0	56.0	6.7
Wisconsin	90.0	40.6	89.2	43.3	92.4	49.6	93.3	49.1
Wyoming	98.3	3.2	98.2	3.0	98.4	5.0	98.3	4.2
Total	76.2	27.3	78.9	R 28.2	80.3	29.2	R 80.4	30.1

See footnotes at end of table.

**Table 28. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1991-1993 (Continued)**

State	January 1993		Total 1992		December 1992		November 1992	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	80.3	20.3	78.6	24.3	78.3	25.3	71.5	24.6
Alaska	100.0	76.0	100.0	69.7	100.0	73.9	100.0	72.2
Arizona	94.9	29.3	87.7	29.9	94.4	31.2	91.5	28.8
Arkansas	92.4	16.6	96.0	12.8	91.5	16.4	87.6	14.7
California	78.7	31.6	74.0	34.6	81.0	37.4	76.3	34.8
Colorado	96.3	35.3	95.3	40.6	96.0	38.3	93.4	33.5
Connecticut	97.0	71.5	96.4	65.6	98.3	75.2	98.1	78.8
Delaware	100.0	71.8	100.0	65.1	100.0	74.0	100.0	72.3
District of Columbia	99.9	--	99.0	--	99.9	--	99.9	--
Florida	89.9	33.4	95.9	29.6	90.6	32.4	90.3	29.4
Georgia	90.7	31.1	87.3	30.8	92.3	36.4	87.1	25.6
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	89.4	.0	85.7	.0	88.3	0	82.2	0
Illinois	60.8	21.0	57.1	14.2	59.3	19.6	59.8	21.2
Indiana	94.2	23.9	97.0	23.6	98.1	22.7	99.8	30.2
Iowa	96.2	16.2	95.6	16.7	96.5	22.9	95.0	25.6
Kansas	83.3	9.9	84.0	9.5	82.0	7.8	77.4	9.3
Kentucky	95.0	19.9	92.5	29.5	94.6	23.1	94.3	30.9
Louisiana	97.2	34.5	92.0	34.3	97.6	34.4	96.9	32.3
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	97.2	18.5	95.9	14.5	97.3	22.8	96.9	31.9
Massachusetts	99.7	57.9	99.7	82.1	100.0	75.5	99.6	76.7
Michigan	73.1	11.5	67.7	7.7	72.1	10.9	67.4	7.2
Minnesota	98.7	50.4	90.6	40.5	97.1	52.5	96.3	47.0
Mississippi	91.6	34.8	94.3	34.7	91.4	34.1	95.0	34.2
Missouri	86.9	29.1	85.1	22.5	86.5	26.9	80.1	21.6
Montana	95.4	16.4	95.4	17.8	94.6	13.5	92.9	14.4
Nebraska	93.7	45.0	87.6	52.7	90.7	55.7	86.8	57.0
Nevada	97.0	6.1	88.2	10.3	95.3	20.1	88.5	9.5
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	95.4	63.4	92.1	55.2	96.9	59.0	95.0	63.4
New Mexico	67.8	4.8	64.6	4.0	55.1	9.1	50.9	7.6
New York	82.3	24.4	76.7	19.7	80.7	22.1	81.8	21.3
North Carolina	100.0	97.0	95.5	80.3	100.0	98.8	100.0	97.3
North Dakota	77.1	34.2	68.8	21.3	68.8	30.9	67.3	25.7
Ohio	89.2	11.2	86.6	11.4	89.4	14.3	86.8	12.6
Oklahoma	91.2	41.2	87.3	23.3	89.8	41.6	84.5	31.3
Oregon	98.5	25.4	97.8	16.2	98.3	19.5	97.3	17.9
Pennsylvania	80.0	29.8	76.8	19.8	80.5	30.3	75.3	26.6
Rhode Island	100.0	10.6	99.9	13.6	100.0	10.5	100.0	8.2
South Carolina	98.4	39.8	98.3	64.7	100.0	72.8	100.0	67.7
South Dakota	86.5	68.3	81.9	52.0	84.7	68.5	81.8	64.1
Tennessee	95.9	39.1	95.4	46.9	96.0	47.4	96.9	46.0
Texas	84.4	32.9	84.5	26.6	82.1	28.2	80.2	23.7
Utah	100.0	9.0	100.0	10.4	100.0	12.5	100.0	10.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	84.3	9.4	89.2	13.2	88.7	15.3	84.5	18.0
Washington	93.8	47.9	87.2	36.3	92.3	45.3	86.8	37.0
West Virginia	55.7	8.8	46.9	2.5	48.7	4.6	46.8	2.8
Wisconsin	92.5	47.1	68.7	38.3	92.3	45.7	90.0	42.9
Wyoming	98.5	4.7	93.9	3.1	98.0	4.0	97.9	3.6
Total	80.6	29.5	78.9	26.7	85.3	29.2	78.4	27.3

See footnotes at end of table.

**Table 28. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1991-1993 (Continued)**

State	October 1992		September 1992		August 1992		July 1992	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	70.4	23.1	71.8	21.2	72.0	23.2	72.8	26.3
Alaska	100.0	71.2	100.0	81.3	100.0	60.1	100.0	66.6
Arizona	93.2	30.2	90.5	27.3	85.9	26.1	87.0	26.4
Arkansas	86.4	13.9	85.1	11.8	84.0	11.7	84.5	11.9
California	78.6	39.1	79.3	40.9	64.0	37.2	60.3	38.6
Colorado	90.9	38.5	93.3	41.8	93.0	35.8	93.9	41.3
Connecticut	97.8	69.6	98.7	63.9	98.7	61.7	95.7	54.1
Delaware	100.0	68.9	100.0	61.9	100.0	62.3	100.0	59.1
District of Columbia	99.9	--	98.9	--	99.4	--	91.4	--
Florida	92.8	25.7	98.0	28.8	97.8	28.0	97.8	30.8
Georgia	83.6	26.2	82.4	36.1	82.3	31.4	78.5	27.4
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	77.9	.0	80.2	.0	82.4	.0	81.0	.0
Illinois	54.9	18.5	46.3	12.2	48.5	7.5	43.7	7.0
Indiana	99.8	28.7	92.5	21.2	99.6	25.9	93.3	18.1
Iowa	90.7	18.4	88.4	12.6	90.4	12.4	91.1	11.2
Kansas	80.6	8.9	86.6	9.7	88.5	12.4	88.0	11.1
Kentucky	92.5	52.3	86.9	44.8	86.4	36.7	85.6	38.2
Louisiana	98.6	32.6	98.7	35.4	98.5	31.6	98.6	33.9
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	94.9	13.3	94.0	5.8	92.5	6.3	92.9	5.1
Massachusetts	99.5	81.9	99.4	81.7	99.5	81.8	99.6	82.9
Michigan	59.8	4.8	48.6	3.5	50.3	3.3	47.2	3.8
Minnesota	99.3	43.4	92.6	38.1	89.1	34.6	92.6	31.0
Mississippi	94.9	32.6	90.7	32.7	94.4	34.5	94.9	34.4
Missouri	74.9	28.6	72.9	17.9	74.4	20.9	70.1	18.0
Montana	92.1	11.3	90.7	9.5	96.7	15.1	95.4	15.4
Nebraska	83.6	51.0	79.3	44.0	83.3	50.6	85.3	47.3
Nevada	88.9	9.5	82.7	9.3	81.4	9.9	84.8	7.0
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	86.9	56.3	81.3	56.7	81.3	R 55.2	89.0	R 52.3
New Mexico	51.8	2.9	54.7	8.5	58.6	1.9	56.5	1.7
New York	75.0	18.4	68.1	13.8	68.2	11.4	71.9	14.7
North Carolina	99.9	96.5	88.3	74.1	85.0	61.2	82.8	47.0
North Dakota	56.8	18.0	57.1	14.2	58.8	13.0	61.6	12.5
Ohio	85.3	12.1	74.8	7.3	75.2	9.0	73.7	7.2
Oklahoma	82.7	27.8	81.5	24.9	83.1	21.3	77.0	15.9
Oregon	94.5	14.7	97.8	13.8	96.7	13.8	97.9	13.6
Pennsylvania	75.2	25.8	70.8	17.6	68.6	15.3	69.5	12.0
Rhode Island	100.0	7.6	100.0	13.4	100.0	10.3	100.0	14.7
South Carolina	99.6	64.3	96.4	60.9	95.0	63.1	94.7	59.6
South Dakota	76.4	59.2	78.0	54.7	74.5	50.2	72.3	R 32.6
Tennessee	96.7	45.7	89.7	36.3	88.3	40.3	96.7	41.0
Texas	76.9	29.2	76.3	24.8	81.7	27.6	82.1	26.3
Utah	100.0	10.3	100.0	9.8	100.0	9.4	100.0	9.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	88.2	15.0	81.3	16.4	83.7	10.5	84.9	5.7
Washington	83.4	35.4	81.3	36.9	80.2	26.7	78.5	35.7
West Virginia	38.6	2.3	25.4	2.3	25.3	2.4	27.1	1.7
Wisconsin	84.1	35.4	78.8	31.7	76.9	30.1	78.2	28.8
Wyoming	96.8	2.3	97.0	2.0	96.7	2.1	96.1	2.0
Total	80.5	29.8	74.0	25.9	72.2	R 25.3	72.0	24.5

See footnotes at end of table.

**Table 28. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1991-1993 (Continued)**

State	June 1992		May 1992		April 1992		March 1992	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	75.2	22.7	76.6	22.8	81.2	23.4	83.0	29.1
Alaska .....	100.0	69.9	100.0	67.6	100.0	68.7	100.0	69.0
Arizona .....	88.8	26.4	89.8	26.4	94.0	31.5	97.7	33.1
Arkansas .....	85.8	12.6	87.3	12.2	92.0	13.9	90.8	13.9
California .....	74.1	33.3	62.9	30.9	78.6	44.0	75.3	30.5
Colorado .....	95.8	28.9	94.8	29.5	95.4	26.8	95.7	28.5
Connecticut .....	87.0	52.1	93.5	54.1	94.3	59.2	95.5	62.6
Delaware .....	100.0	60.0	100.0	63.5	100.0	61.1	100.0	62.2
District of Columbia .....	99.9	--	97.5	--	97.3	--	99.9	--
Florida .....	98.0	34.2	98.1	35.1	98.0	24.7	97.1	25.6
Georgia .....	81.6	26.3	84.0	35.8	87.4	41.3	88.6	28.6
Hawaii .....	100.0	--	100.0	--	100.0	--	100.0	--
Idaho .....	80.2	.0	83.1	.0	85.2	.0	87.1	.0
Illinois .....	42.7	5.3	52.3	8.7	56.8	11.4	58.8	13.9
Indiana .....	99.9	23.2	99.7	25.1	96.8	22.9	98.9	20.6
Iowa .....	93.0	12.1	94.2	12.8	96.1	14.2	96.4	14.7
Kansas .....	86.4	8.7	88.5	12.1	86.4	9.3	83.3	7.7
Kentucky .....	85.8	39.9	86.9	27.8	91.2	17.9	93.0	14.0
Louisiana .....	98.5	30.8	98.6	45.3	98.6	41.5	98.5	43.1
Maine .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland .....	92.7	4.8	93.9	3.9	95.5	10.6	96.1	17.1
Massachusetts .....	99.7	80.5	99.6	83.7	99.7	86.1	99.7	80.4
Michigan .....	54.2	3.9	65.4	6.0	69.4	8.9	70.3	10.2
Minnesota .....	87.6	35.3	91.7	33.8	95.1	37.9	95.6	40.6
Mississippi .....	94.7	32.8	94.4	33.8	96.0	34.9	95.6	36.6
Missouri .....	80.3	18.8	82.5	17.7	87.9	28.6	89.0	26.4
Montana .....	94.9	16.7	96.6	17.7	96.5	23.8	96.7	27.7
Nebraska .....	51.4	43.6	88.4	54.3	90.7	51.4	88.6	59.6
Nevada .....	84.0	11.0	83.7	9.1	87.2	10.1	88.3	9.8
New Hampshire .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey .....	91.6	R 53.0	94.3	R 51.2	86.2	R 47.8	92.3	R 53.3
New Mexico .....	60.8	2.2	58.1	7.0	67.9	.6	70.4	1.4
New York .....	69.8	12.3	71.4	14.3	76.4	21.2	78.7	23.6
North Carolina .....	84.6	61.1	87.4	60.9	92.5	72.4	99.1	94.8
North Dakota .....	63.7	14.7	73.3	16.8	71.5	24.8	71.9	21.3
Ohio .....	75.5	8.3	80.3	8.2	86.7	11.9	89.2	13.0
Oklahoma .....	31.4	16.6	82.9	16.5	89.1	16.1	88.3	18.3
Oregon .....	97.7	16.0	97.7	19.3	97.6	19.5	97.3	18.7
Pennsylvania .....	74.4	10.4	73.1	12.5	76.3	17.6	77.8	18.7
Rhode Island .....	100.0	10.8	100.0	15.9	99.6	14.0	100.0	11.5
South Carolina .....	95.1	62.3	98.2	67.0	98.3	59.2	98.6	59.6
South Dakota .....	73.5	39.2	80.7	40.8	83.0	44.3	81.0	41.8
Tennessee .....	94.8	45.1	92.3	47.8	96.5	47.9	96.0	53.1
Texas .....	83.1	28.9	84.5	25.7	88.9	27.9	88.4	24.3
Utah .....	100.0	9.3	100.0	9.4	100.0	10.1	100.0	9.5
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	86.5	14.5	87.1	12.0	90.3	14.5	92.6	13.6
Washington .....	80.6	33.3	83.4	35.0	85.4	35.4	88.7	37.9
West Virginia .....	30.2	2.1	44.4	2.5	53.2	3.0	49.9	3.4
Wisconsin .....	R 81.0	26.3	77.7	31.1	86.8	37.6	88.4	41.2
Wyoming .....	96.8	2.1	97.6	2.6	98.1	3.8	97.5	4.2
Total .....	R 75.3	24.8	74.9	R 25.6	79.1	R 26.8	80.8	R 26.1

See footnotes at end of table.

**Table 28. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1991-1993 (Continued)**

State	February 1992		January 1992		Total 1991		December 1991	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	85.1	26.1	81.8	23.4	82.7	31.4	81.7	30.4
Alaska .....	100.0	68.0	100.0	68.7	100.0	69.1	100.0	70.8
Arizona .....	98.6	33.0	98.6	38.6	93.2	48.1	97.7	40.4
Arkansas .....	94.1	15.8	93.4	15.1	91.5	19.4	92.2	19.0
California .....	65.1	29.3	86.3	26.6	77.8	29.8	80.3	25.6
Colorado .....	96.5	26.0	96.5	29.3	96.0	34.7	96.2	29.9
Connecticut .....	97.1	72.0	97.6	75.8	93.0	68.2	96.5	73.5
Delaware .....	100.0	63.8	100.0	65.9	100.0	65.9	100.0	67.3
District of Columbia .....	99.9	--	99.6	--	97.3	--	99.4	--
Florida .....	96.9	25.3	96.4	34.3	97.4	40.7	96.8	40.1
Georgia .....	90.0	25.0	90.1	30.2	87.5	36.8	92.4	35.7
Hawaii .....	100.0	--	100.0	--	100.0	--	100.0	--
Idaho .....	89.0	.0	89.4	.0	87.6	.4	87.4	.4
Illinois .....	57.5	16.1	62.4	20.1	59.0	15.4	60.2	21.1
Indiana .....	93.3	20.1	94.5	23.5	94.2	21.4	95.3	25.9
Iowa .....	97.3	18.9	97.5	21.1	97.6	28.1	97.9	26.1
Kansas .....	83.3	9.4	82.4	8.5	89.2	15.1	85.3	11.5
Kentucky .....	93.7	16.3	95.0	26.0	94.0	26.8	95.4	37.4
Louisiana .....	98.1	42.4	97.1	41.8	99.1	45.3	97.6	44.5
Maine .....	100.0	100.0	100.0	100.0	100.0	95.9	100.0	100.0
Maryland .....	97.1	22.2	97.1	24.2	96.6	15.8	97.3	24.2
Massachusetts .....	99.9	82.7	99.9	88.7	99.8	71.0	99.8	68.7
Michigan .....	73.5	12.2	72.7	13.2	68.3	10.8	70.0	12.9
Minnesota .....	94.9	39.0	99.6	44.5	95.2	41.8	98.9	55.5
Mississippi .....	93.1	40.7	96.2	35.6	95.9	48.0	96.3	47.6
Missouri .....	89.9	31.2	89.5	29.7	85.9	25.3	88.4	30.4
Montana .....	97.9	27.1	97.1	25.2	97.5	54.5	97.2	24.4
Nebraska .....	90.6	54.3	90.7	61.2	91.8	46.4	91.4	60.6
Nevada .....	89.5	13.3	90.6	12.5	90.8	14.1	89.0	12.5
New Hampshire .....	100.0	100.0	100.0	100.0	100.0	94.1	100.0	100.0
New Jersey .....	92.3	R 56.0	97.0	R 55.4	93.9	55.9	97.0	67.3
New Mexico .....	81.5	1.5	81.2	3.5	77.7	10.5	72.8	6.3
New York .....	78.0	26.3	80.2	30.1	80.7	29.4	81.0	32.4
North Carolina .....	99.1	93.5	99.2	98.3	95.0	72.5	99.2	97.8
North Dakota .....	73.7	28.8	71.6	25.6	70.0	23.9	70.0	27.6
Ohio .....	88.9	14.7	89.9	14.3	86.7	12.0	89.8	15.0
Oklahoma .....	90.8	18.9	89.9	29.8	91.3	42.0	90.6	30.0
Oregon .....	98.3	14.8	98.5	15.8	97.9	19.1	98.0	21.6
Pennsylvania .....	78.6	20.2	78.8	25.6	77.3	20.9	76.7	27.4
Rhode Island .....	100.0	8.4	100.0	9.6	100.0	14.3	100.0	9.7
South Carolina .....	98.9	66.8	98.9	76.1	98.2	70.4	98.8	71.1
South Dakota .....	83.3	53.3	86.9	67.2	81.8	55.1	85.2	62.8
Tennessee .....	96.4	54.6	95.8	54.8	95.7	55.6	97.7	59.4
Texas .....	90.5	27.9	91.3	24.9	89.0	30.7	87.1	27.4
Utah .....	100.0	11.1	100.0	11.6	100.0	15.3	100.0	10.4
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	92.1	15.9	93.6	13.6	93.6	28.8	93.4	38.2
Washington .....	89.0	38.6	92.1	38.4	92.2	44.2	92.0	40.2
West Virginia .....	56.7	3.2	55.3	2.8	54.9	21.4	57.9	18.8
Wisconsin .....	89.9	43.0	89.8	51.4	91.0	42.7	92.1	48.7
Wyoming .....	97.8	4.3	98.4	4.7	99.0	6.3	98.5	6.3
Total .....	80.0	R 27.3	82.5	R 27.8	85.1	32.7	86.0	32.3

See footnotes at end of table.

**Table 28. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1991-1993 (Continued)**

State	November 1991		October 1991		September 1991		August 1991	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	75.4	29.3	74.4	27.8	75.7	28.6	81.3	28.8
Alaska .....	100.0	68.4	100.0	64.7	100.0	57.3	100.0	70.9
Arizona .....	92.8	31.6	92.8	32.1	88.4	50.5	88.0	49.4
Arkansas .....	90.5	19.1	86.4	18.1	85.9	16.9	85.5	16.8
California .....	69.8	29.8	64.7	24.7	67.9	22.5	85.8	39.6
Colorado .....	94.6	31.6	92.3	33.6	93.6	34.2	93.8	40.5
Connecticut .....	93.0	67.2	85.8	57.0	77.8	52.8	77.0	49.6
Delaware .....	100.0	63.9	100.0	64.3	100.0	57.4	100.0	59.0
District of Columbia .....	95.6	--	91.0	--	90.5	--	89.3	--
Florida .....	96.7	37.4	97.7	33.6	98.1	36.8	97.8	39.7
Georgia .....	90.7	37.2	82.7	30.8	78.8	45.1	80.3	38.4
Hawaii .....	100.0	--	100.0	--	100.0	--	100.0	--
Idaho .....	85.0	.5	73.5	.2	82.9	.3	84.0	.2
Illinois .....	60.4	21.1	54.7	12.8	55.0	10.1	43.4	7.2
Indiana .....	97.8	28.5	98.5	22.4	92.5	20.1	89.6	16.6
Iowa .....	98.4	26.0	96.2	19.2	95.9	23.6	91.5	25.1
Kansas .....	87.7	12.2	82.0	15.0	86.8	15.6	89.7	18.4
Kentucky .....	95.7	38.1	91.4	49.8	91.1	35.0	87.9	18.5
Louisiana .....	97.3	45.0	98.4	44.5	98.4	44.8	98.3	43.5
Maine .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland .....	96.5	16.2	95.8	12.8	94.0	14.0	94.6	11.6
Massachusetts .....	99.8	64.6	99.8	67.9	99.5	65.3	99.6	60.1
Michigan .....	87.2	12.5	60.0	6.4	47.5	5.1	41.2	4.1
Minnesota .....	97.0	53.2	97.7	42.0	90.4	31.9	81.5	30.7
Mississippi .....	95.4	49.3	94.9	48.8	95.0	49.2	94.5	48.6
Missouri .....	85.9	28.2	75.5	19.8	75.0	17.6	72.2	15.6
Montana .....	96.5	22.6	96.3	57.2	95.8	59.1	95.7	69.6
Nebraska .....	90.4	64.3	86.0	46.0	85.8	40.0	95.1	40.8
Nevada .....	82.1	14.7	84.2	10.6	79.5	10.9	85.1	10.4
New Hampshire .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey .....	93.2	60.5	89.9	53.4	89.2	53.8	80.5	51.8
New Mexico .....	75.5	8.3	71.7	7.6	73.7	12.7	71.0	14.1
New York .....	79.5	29.5	75.0	23.9	73.1	22.7	75.0	24.3
North Carolina .....	99.0	94.8	97.9	88.2	85.0	51.9	86.2	50.6
North Dakota .....	67.5	25.4	48.6	15.0	49.6	10.0	47.5	15.2
Ohio .....	87.7	13.2	82.6	10.4	75.5	8.1	73.6	8.7
Oklahoma .....	87.5	23.2	81.2	23.8	86.8	35.7	85.5	34.1
Oregon .....	97.5	18.7	95.9	18.7	97.2	18.2	97.2	16.8
Pennsylvania .....	76.3	23.6	72.9	15.9	72.1	13.6	71.6	14.4
Rhode Island .....	100.0	9.7	100.0	9.7	100.0	16.2	100.0	14.3
South Carolina .....	98.9	70.2	97.3	72.4	97.6	68.8	97.7	66.7
South Dakota .....	83.3	59.2	76.7	51.0	74.5	63.0	74.3	54.3
Tennessee .....	97.1	59.6	95.3	52.7	93.9	54.0	93.8	50.6
Texas .....	84.2	28.7	80.0	24.6	86.8	27.8	90.0	32.3
Utah .....	100.0	11.9	100.0	12.8	100.0	13.8	100.0	13.6
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	90.9	40.0	92.5	29.4	90.2	25.7	89.4	26.7
Washington .....	88.7	40.6	85.2	45.2	85.5	39.9	87.2	42.0
West Virginia .....	55.5	15.9	45.1	21.4	36.4	28.0	33.8	23.5
Wisconsin .....	91.5	47.3	86.7	40.1	83.5	36.1	84.7	33.4
Wyoming .....	98.6	5.6	98.3	4.7	97.1	5.3	98.2	5.0
Total .....	85.0	32.8	78.8	29.2	78.0	29.4	81.6	31.9

R = Revised Data

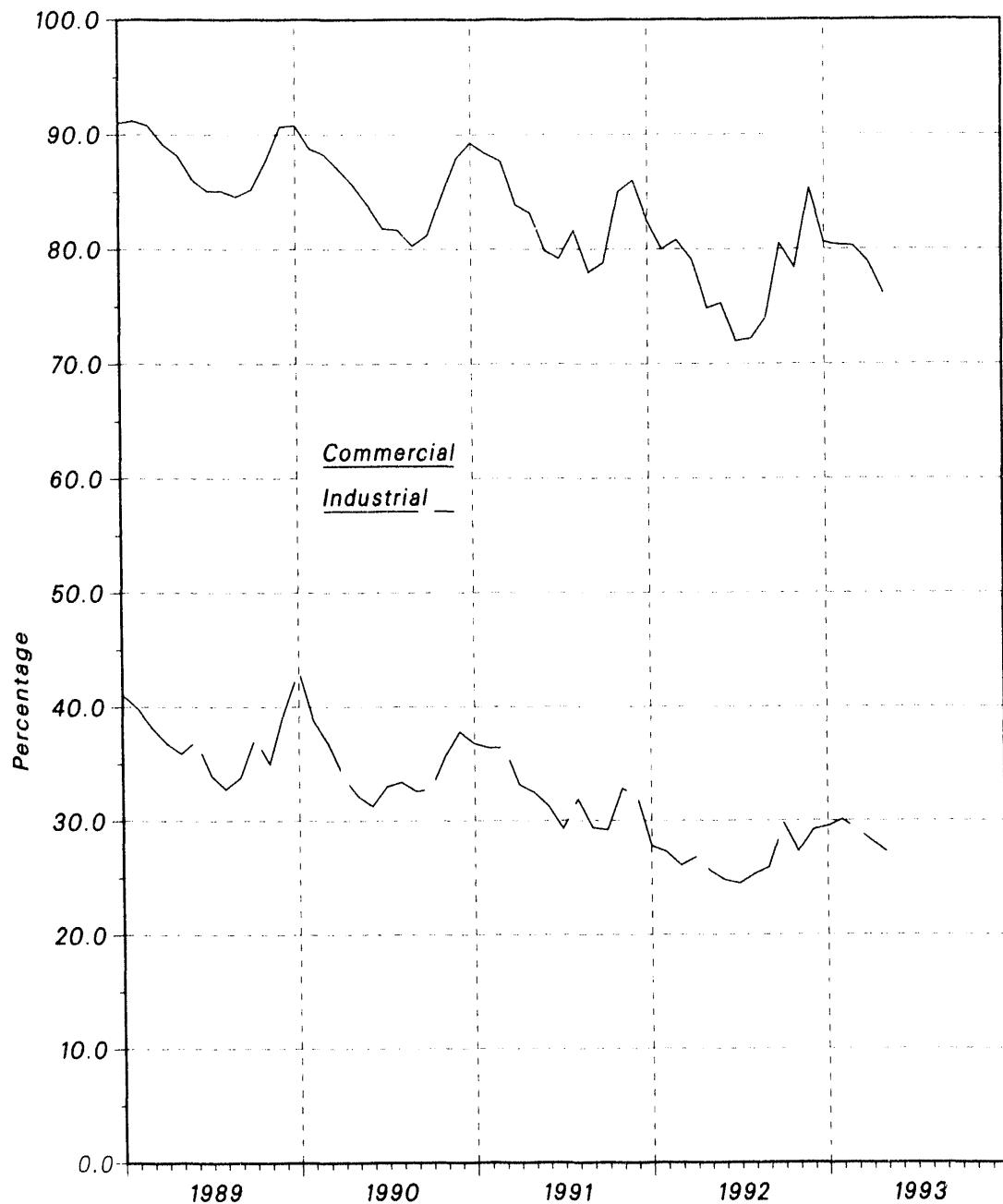
NA = Not Available.

-- = 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.

Figure 6. Percentage of Total Deliveries Represented by Onsystem Sales, 1989-1993



Source: Form EIA-857.

## **Appendix A**

### **Explanatory Notes**

## 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*. These data are preliminary when initially published. Some of these monthly data are estimates

developed by EIA staff. Others are taken or estimated from submitted reports. The table below lists the methodologies for deriving the monthly data to be published initially for the components of supply and disposition.

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

Components	Reporting Methodology
<b>Supply and Disposition</b>	
Marketed Production	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
<b>Prior-Month Consumption</b>	
Lease and Plant Fuel	Derived from Marketed Production
Pipeline Fuel	Derived from Estimates for Lease and Plant Fuel and Deliveries to Consumers
Deliveries to Consumers	
Residential	Estimated from Reports to the Sample Survey Form EIA-857
Commercial	Estimated from Reports to the Sample Survey Form EIA-857
Industrial	Estimated from Reports to the Sample Survey Form EIA-857
Electric Utilities	Reported on Form EIA-759

## **Note 1. Nonhydrocarbon Gases Removed**

### **Annual Data**

Data on nonhydrocarbon gases removed from marketed production--carbon dioxide, helium, hydrogen sulfide, and nitrogen--are reported by State agencies on the voluntary Form EIA-627. For 1991, of the 33 producing States, 23 reported data on nonhydrocarbon gases removed. The 23 States accounted for 59 percent of total 1991 gross withdrawals. Of the 23 States reporting nonhydrocarbon gases removed, 12 reported zero values: Alaska, Arizona, Arkansas, Illinois, Indiana, Maryland, Missouri, Nevada, New York, Oregon, South Dakota, and Virginia. The nine States reporting volumes greater than zero are Alabama, California, Colorado, Florida, Mississippi, New Mexico, North Dakota, Texas, and Wyoming. Two States (Kentucky and Nebraska) reported quantities unknown but considered insignificant. In addition, Kansas, Louisiana, Montana, and Oklahoma, which together accounted for 36 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. Three States report monthly data on nonhydrocarbon gases removed: Alabama, Texas, and Mississippi. Monthly data for California, Colorado, Florida, New Mexico, North Dakota, and Wyoming are estimated based on annual data reported on Form EIA-627. 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.

For States not supplying monthly data on the EIA-627, final monthly data are calculated by proportionally allocating the differences between total annual data reported on the Form EIA-627 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-627 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-627 for the previous year.

Estimates for total U.S. marketed production are based on final monthly data reported on the Form EIA-627

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 that item to gross withdrawals as reported on the EIA-627. 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-627 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 Interstate Oil and Gas Compact Commission (IOGCC) 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 1991 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 annual Form FPC-14, which requires data to be reported 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 Form FPC-14, 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 Mont'ly Data**

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

#### **Residential, Commercial, and Industrial Sector Consumption**

#### **Preliminary Monthly Data**

Preliminary monthly residential, commercial, and industrial data are from Form EIA-857. See Appendix C, "Statistical Considerations," for a detailed explanation of sample selection and estimation procedures.

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.

### ***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 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 lease and plant fuel consumption estimates.

### ***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 1991. 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 1987 through 1991 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.

## **Note 8. Average Wellhead Value**

### **Annual Data**

Form EIA-627 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.

### **Initial Monthly Data**

An initial estimate is calculated based on the statistical relationship between U.S. monthly wellhead gas prices and the monthly composite spot wellhead prices published in the *Natural Gas Week*. The estimate is prepared using the same methodology that generates monthly gas price estimates for EIA's *Short-Term Energy Outlook*. The initial estimate is the latest monthly estimate presented.

### **Preliminary Monthly Data**

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

### **Final Monthly Data**

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

## **Note 9. Financial Data of Major Interstate Pipeline Companies**

The prices in Table 4 for imports and purchases from producers by major interstate pipeline companies, and all data in Tables 8 through 12 are derived from Form FERC-11. Form FERC-11 is filed monthly by the approximately 51 major interstate natural gas pipeline companies. A major pipeline company is defined as one "whose combined sales for resale, and gas transported interstate or stored for a fee exceeded 50 billion cubic feet in the previous calendar year."

Data reported by the major interstate pipeline companies on Form FERC-11 generally reflect the timing of data entry, revision, and/or reclassification of accounts in the companies' accounting records in accordance with the FERC regulations and regulatory filings. Certain data may also be estimated. Consequently, the data reported and shown in Tables 8 through 12 for any given month may include or reflect out-of-period dollar or volume adjustments, restatements or revisions, or account reclassifications. The dollar amounts reported as paid or received and volumes reported as delivered or received may also include amounts paid, delivered, or received under contractual provisions such as pre-payment, take-or-pay, minimum take, or minimum bill provisions. Unless otherwise footnoted, the individual data items, computed averages, and aggregated totals shown include the effect of any and all such adjustments, revisions, estimates, reclassifications, and/or contractual provisions. Average prices are not reported on the FERC-11. The averages shown are computed by dividing the total dollars reported for the particular item by the total volume reported for the same item.

### **Final Monthly Data**

Final revisions for the prior year's data are made upon receipt of the current data which will indicate any revisions. Revisions are made on a month by month basis.

## **Note 10. 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.

## **Appendix B**

### **Data Sources**

## 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 five monthly surveys. Filings with the FERC also provide sources of data for this publication.

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 three 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, the Form FERC-11 filed by major interstate natural gas pipeline companies, 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 five 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. Also shown are copies of the EIA and FERC survey forms that are sources of data for this publication.

### **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. Beginning with 1990 data, the responses are not considered proprietary.

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.

In 1988, the Form EIA-176 was revised to include data collection for deliveries of natural gas to commercial consumers for the account of others. The revised form was approved for use during report years 1987 through 1989. Response to the form was mandatory.

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, revisions to the Form were approved that permitted collection of data on deliveries of natural gas for use as a vehicle fuel and detailed underground storage information. Data filed on the EIA-176 are no longer held confidential.

## **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 1992 for report year 1991 totaled 2,116 questionnaire packages. To this original mailing, 14 names were added and 34 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 2,096 responses from approximately 1,800 companies.

Following the original mailing, second request mailing, and nonrespondents followup, 2,092 responses were entered into the data base, and there were four 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*.

**Figure B1. Form EIA-176**

EIA-176 (Revised 1991)

**U.S. DEPARTMENT OF ENERGY  
ENERGY INFORMATION ADMINISTRATION**

Form Approved  
OMB No. 19050175  
Expires 12/31/93

**ANNUAL REPORT OF NATURAL AND SUPPLEMENTAL GAS SUPPLY AND DISPOSITION, 19**

This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to report may result in criminal fines, civil penalties, and other sanctions as provided by law. See Section VI of the instructions for confidentiality statement. Public reporting burden for this collection of information is estimated to average 19.8 hours per response, including the time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Office of Statistical Standards EII-73, Mail Station 2F 081 Forrestal, 1000 Independence Ave SW, Washington DC 20585, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington DC 20503.

**EIA USE**

Affix mailing label or enter mail address

Control (ID) No. \_\_\_\_\_

EIA COPY. Tear out, complete, and return to

Energy Information Administration  
Mail Station BG 094 FORSTL  
U.S. Department of Energy  
Washington, D.C. 20585  
Attn: Form EIA-176

<b>EIA USE</b>	
Affix mailing label or enter mail address	
Control (ID) No. _____	
Name _____	
Operations in (State) _____	
Street or Post Office Box _____	
City, State, Zip Code _____	
Attention _____	

<b>PART I: IDENTIFICATION</b>				
1.0 Control No	2.0 Company Name	3.0 Report State	EIA	4.0 Resubmittal
			<input type="checkbox"/>	<input type="checkbox"/> Date
5.0 Company status, name, and/or address change or correction (Check appropriate box)				
<p>a. <input type="checkbox"/> Name and address on mailing label are correct</p> <p>b. <input type="checkbox"/> Change name, attention line, and/or mail address as indicated below</p> <p>c. <input type="checkbox"/> Company was sold to, or merged with, company entered below</p> <p>d. <input type="checkbox"/> Company went out of business. Customer accounts taken over by company entered below</p> <p>e. <input type="checkbox"/> Other changes, corrections, or comments _____</p>				
<p>5.1 Change mail address to</p> <p>a. Company Name _____</p> <p>b. Operations in (State) _____</p> <p>c. Street or Post Office Box _____</p> <p>d. City, State, Zip Code _____</p> <p>e. Attention _____</p>				
6.0 Contact person		Telephone Number	Area Code	No. _____ Ext. _____
Name _____				

<b>PART II: CERTIFICATION AND DISCLOSURE STATEMENT</b>	
1.0 I certify that (Check appropriate box).	
<p>a. <input type="checkbox"/> The information provided herein and appended hereto is true and accurate or, where indicated on the form, reasonable estimates to the best of my knowledge</p> <p>b. <input type="checkbox"/> My company does not meet any of the criteria set forth in Section II, "Who must submit," of the instructions and is therefore not required to complete and submit a Form EIA-176 for the report State.</p>	
2.0 Name	3.0 Title
4.0 Signature	5.0 Date
Title 18, USC 1001, makes it a crime for any person knowingly and willingly to make to any agency or department of the United States any false, fictitious or fraudulent statements as to any matter within its jurisdiction	

1.0 Control No.	2.0 Company Name	3.0 Report State	EIA	4.0 Resubmittal Date
-----------------	------------------	------------------	-----	----------------------

**PART III: TYPE OF COMPANY AND GAS ACTIVITIES OPERATED IN THE REPORT STATE**

<b>1.0 Type of Company (check one)</b>		<b>2.0 Gas Activities Operated On-system Within the Report State (check all that apply)</b>	
a	<input type="checkbox"/> Investor owned distributor	a	<input type="checkbox"/> Produced Natural Gas
b	<input type="checkbox"/> Municipally owned distributor	b	<input type="checkbox"/> Gathered
c	<input type="checkbox"/> Interstate pipeline	c	<input type="checkbox"/> Processed
d	<input type="checkbox"/> Intrastate pipeline	d	<input type="checkbox"/> Purchased
e	<input type="checkbox"/> Storage operator	e	<input type="checkbox"/> Transported Interstate
f	<input type="checkbox"/> SNG plant operator	f	<input type="checkbox"/> Transported Intrastate
g	<input type="checkbox"/> Integrated oil and gas	g	<input type="checkbox"/> Stored Underground
h	<input type="checkbox"/> Producer	h	<input type="checkbox"/> Stored LNG
i	<input type="checkbox"/> Gatherer	i	<input type="checkbox"/> Injected Propane-air
j	<input type="checkbox"/> Processor	j	<input type="checkbox"/> Produced SNG
k	<input type="checkbox"/> Other (specify) _____	k	<input type="checkbox"/> Imported
		l	<input type="checkbox"/> Exported
		m	<input type="checkbox"/> Delivered for Resale
		n	<input type="checkbox"/> Delivered directly to consumers
		o	<input type="checkbox"/> Other (specify) _____

**PART IV: SUPPLY OF NATURAL AND SUPPLEMENTAL GAS RECEIVED WITHIN OR TRANSPORTED INTO REPORT STATE**

	Volume (Mcf at 14.73 psia)	e or f	Cost (Dollars)	e or f
1.0 Company-owned natural gas produced on-system . . . . .				
2.0 On-system purchases received:				
2.1 From producers, gatherers, and/or gas processors . . . . .				
2.2 From pipelines and/or distribution companies . . . . .				
2.3 From synthetic natural gas plants or SNG pipeline . . . . .				
2.4 At State line or U.S. border from:				
Company _____				
State or Country _____	□ □ □ □ □ □			
(Continue on Part VI, if more space is needed)				
3.0 Transportation and/or exchange receipts:				
3.1 Received within the report State . . . . .				
3.2 Received at the State line or U.S. border from:				
Company _____				
State or Country _____	□ □ □ □ □ □			
(Continue on Part VI, if more space is needed)				
4.0 Transported into the report State from:	□ □ □ □ □ □			
State or Country _____	□ □ □ □ □ □			
(Continue on Part VI, if more space is needed)				
5.0 Withdrawn from storage facilities:				
5.1 Withdrawn from company-operated underground storage:				
5.1.1 Company-owned natural gas . . . . .				
5.1.2 Natural gas owned by others . . . . .				
5.2 Company-owned natural gas received directly from underground storage operators . . . . .				
5.3 Received from underground storage operators for the account of others . . . . .				
5.4 From liquefied natural gas storage . . . . .				
6.0 Synthetic natural gas produced . . . . .				
7.0 Other sources of supply (specify source and/or kind of fuel): _____	□ □ □ □ □ □			
(Continue on Part VI, if more space is needed)				
8.0 Total supply within report state . . . . .				

EIA COPY Page 2

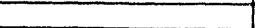
1.0 Control No	2.0 Company Name	3.0 Report State	EIA	4.0 Resubmittal Date
<b>PART V: DISPOSITION OF NATURAL AND SUPPLEMENTAL GAS WITHIN OR TRANSPORTED OUT OF REPORT STATE</b>				
		Volume (McF at 14.73 psia)	e or f	Cost or Revenue (Dollars)
1.0 Used in well, lease, and field operations				
2.0 Returned to oil and/or gas reservoirs				
3.0 Used, removed, or lost in gas processing or treating plants				
3.1 Company-operated plants				
3.1.1 Volume delivered to company operated plants for redelivery		McF		
3.1.2 Volume used for plant fuel				
3.1.3 Extraction loss estimated gas phase volume of liquids extracted				
3.1.4 Volume of nonhydrocarbons removed (e.g., H <sub>2</sub> S & CO <sub>2</sub> )				
3.1.5 Vented, flared, and/or lost				
3.2 Plants operated by others				
3.2.1 Volume delivered to plants operated by others for redelivery		McF		
3.2.2 Total volume used, removed, vented, and/or flared				
4.0 Added to storage facilities				
4.1 Injected into company operated underground storage				
4.1.1 Company-owned natural gas				
4.1.2 Natural gas owned by others				
4.2 Company owned gas delivered directly to underground storage operators				
4.3 Delivered to underground storage operators for the account of others				
4.4 Added to liquefied natural gas storage				
5.0 Deliveries of company owned natural gas				
5.1 Delivered to other pipelines within the report State				
5.2 Delivered to resellers (e.g. distribution companies)				
5.3 Delivered at the State line or U.S. border to Company				
State or Country				
(Continue on Part VI if more space is needed)		Number of consumers		
5.4 Delivered directly to consumers				
5.4.1 Residential sales				
5.4.2 Commercial sales				
5.4.3 Industrial sales				
5.4.4 Electric utility sales				
5.4.5 Natural gas used as vehicle fuel				
6.0 Average heat content of gas delivered directly to consumers		Btu		
7.0 Natural gas transported for the account of others				
7.1 Delivered to other pipelines within the report State				
7.2 Delivered to resellers for the account of others				
7.3 Delivered at the State line or U.S. border to Company				
State or Country				
(Continue on Part VI if more space is needed)		Number of consumers		
7.4 Transported and delivered to consumers for the account of others				
7.4.1 Residential consumers				
7.4.2 Commercial consumers				
7.4.3 Industrial consumers				
7.4.4 Electric utility consumers				
7.4.5 Natural gas used as vehicle fuel				
8.0 Deliveries or exchange gas				
8.1 Delivered at point(s) within the report State				
8.2 Delivered at the State line or U.S. Border to Company				
State or Country				
(Continue on Part VI if more space is needed)				
9.0 Used in pipeline, storage, and/or distribution operations				
10.0 Other disposition (specify)				
(Continue on Part VI if more space is needed)				
11.0 Total disposition accounted for				
12.0 Unaccounted for gas supply (+) or disposition (-)				

1.0 Control No.	2.0 Company Name	3.0 Report State	EIA	4.0 Resubmittal <input checked="" type="checkbox"/> Date: _____
<b>PART VI: CONTINUATION SHEET</b> (To be used only if insufficient space was provided on Part IV and/or Part V)				
<b>Supply (Continued)</b>		Volume (Mcf at 14.73 psia)	e or f	Cost or Revenue (Dollars)
PART IV, 2.4 On-system purchases received at State line or U.S. border from: (Continued)				
Company _____				
State or Country _____				
Company _____				
State or Country _____				
PART IV, 3.2 Transportation and or exchange receipts at State line or U.S. border from: (Continued)				
Company _____				
State or Country _____				
Company _____				
State or Country _____				
PART IV, 4.0 Transported into report State from: (Cont'd)				
State or Country _____				
State or Country _____				
State or Country _____				
State or Country _____				
PART IV, 7.0 Other sources of supply (specify source and/or kind of fuel): (Continued)				
_____ _____ _____				
<b>Disposition (Continued)</b>				
PART V, 5.3 Company-owned natural gas deliveries at State line or U.S. border to: (Continued)				
Company _____				
State or Country _____				
Company _____				
State or Country _____				
PART V, 7.3 Transported for the account of others out of report				
State to: (Continued)				
State or Country _____				
State or Country _____				
State or Country _____				
State or Country _____				
PART V, 8.2 Deliveries of exchange gas at State line or U.S. border to: (Continued)				
Company _____				
State or Country _____				
Company _____				
State or Country _____				
PART V, 10.0 Other disposition (specify): (Continued)				
_____ _____ _____				

EIA-176, ANNUAL REPORT OF NATURAL AND SUPPLEMENTAL GAS SUPPLY AND DISPOSITION, 19

1.0 Control No. 2.0 Company Name 3.0 Report State EIA 4.0 Resubmittal  
Date:

## PART VII: FOOTNOTES

Part No.	Item No.	EIA Use	Sub-item (State, Company, or Line)	Line No.	Footnote
					
					
					
					
					

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**Figure B2. Form EIA-176, Short Form**

EIA-176 (Revised 1991)

**U.S. DEPARTMENT OF ENERGY  
ENERGY INFORMATION ADMINISTRATION**

Form Approved  
OMB No. 19050175  
Expires: 12/31/93

**ANNUAL REPORT OF NATURAL AND SUPPLEMENTAL GAS SUPPLY AND DISPOSITION, 19**

**SHORT  
FORM**

This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to report may result in criminal fines, civil penalties, and other sanctions as provided by law. See Section VI of the instructions for confidentiality statement. Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Office of Statistical Standards EI-73, Mail Station 2F-081 Forrestal, 1000 Independence Ave SW, Washington DC 20585, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington DC 20503.

**EIA USE**

Affix mailing label or enter mail address

Control (ID) No. \_\_\_\_\_

Name: \_\_\_\_\_

Operations in (State): \_\_\_\_\_

Street or Post Office Box: \_\_\_\_\_

City, State, Zip Code: \_\_\_\_\_

Attention: \_\_\_\_\_

**EIA COPY.** Tear out, complete, and return to:

Energy Information Administration  
Mail Station: BG-094 FORSTL  
U.S. Department of Energy  
Washington, D.C. 20585  
Attn: Form EIA-176

**PART I: IDENTIFICATION**

1.0 Control No.	2.0 Company Name:	3.0 Report State	EIA	4.0 Resubmittal
-----------------	-------------------	------------------	-----	-----------------

5.0 Company status, name, and/or address change or correction. (Check appropriate box.)

- a.  Name and address on mailing label are correct.
- b.  Change name, attention line, and/or mail address as indicated below.
- c.  Company was sold to, or merged with, company entered below.
- d.  Company went out of business. Customer accounts taken over by company entered below.
- e.  Other changes, corrections, or comments: \_\_\_\_\_

5.1 Change mail address to:

- a. Company Name: \_\_\_\_\_
- b. Operations in (State): \_\_\_\_\_
- c. Street or Post Office Box: \_\_\_\_\_
- d. City, State, Zip Code: \_\_\_\_\_
- e. Attention: \_\_\_\_\_

6.0 Contact person:

Telephone Area  
Name: \_\_\_\_\_ Number: \_\_\_\_\_ Code: \_\_\_\_\_ No. \_\_\_\_\_ Ext. \_\_\_\_\_

**PART II: CERTIFICATION AND DISCLOSURE STATEMENT**

1.0 I certify that (Check appropriate box):

- a.  The information provided herein and appended hereto is true and accurate or, where indicated on the form, reasonable estimates to the best of my knowledge.
- b.  My company does not meet any of the criteria set forth in Section II, "Who must submit," of the instructions and is therefore not required to complete and submit a Form EIA-176 for the report State.

2.0 Name

3.0 Title

4.0 Signature

5.0 Date

Title 18, USC 1001, makes it a crime for any person knowingly and willingly to make to any agency or department of the United States any false, fictitious or fraudulent statements as to any matter within its jurisdiction.

EIA-176, ANNUAL REPORT OF NATURAL AND SUPPLEMENTAL GAS SUPPLY AND DISPOSITION, 19

1.0 Control No.	2.0 Company Name:	3.0 Report State	EIA	4.0 Resubmittal
				Date:

**PART III: TYPE OF COMPANY AND GAS ACTIVITIES OPERATED IN THE REPORT STATE**

1.0 Type of Company (check one)	2.0 Gas Activities Operated On-system Within the Report State (check all that apply)
a. <input type="checkbox"/> Investor owned distributor b. <input type="checkbox"/> Municipally owned distributor c. <input type="checkbox"/> Interstate pipeline d. <input type="checkbox"/> Intrastate pipeline e. <input type="checkbox"/> Storage operator f. <input type="checkbox"/> SNG plant operator g. <input type="checkbox"/> Integrated oil and gas h. <input type="checkbox"/> Producer i. <input type="checkbox"/> Gatherer j. <input type="checkbox"/> Processor k. <input type="checkbox"/> Other (specify) _____	a. <input type="checkbox"/> Produced Natural Gas b. <input type="checkbox"/> Gathered c. <input type="checkbox"/> Processed d. <input type="checkbox"/> Purchased e. <input type="checkbox"/> Transported Interstate f. <input type="checkbox"/> Transported Intrastate g. <input type="checkbox"/> Stored Underground h. <input type="checkbox"/> Stored LNG i. <input type="checkbox"/> Injected Propane-air j. <input type="checkbox"/> Produced SNG k. <input type="checkbox"/> Imported l. <input type="checkbox"/> Exported
	m. <input type="checkbox"/> Delivered for Resale n. <input type="checkbox"/> Delivered directly to consumers o. <input type="checkbox"/> Other (specify) _____

**PART IV: SUPPLY OF NATURAL AND SUPPLEMENTAL GAS RECEIVED WITHIN OR TRANSPORTED INTO REPORT STATE**

2.0 On-system purchases received:	Volume (Mcf at 14.73 psia)	e or f	Cost (Dollars)	e or f
2.1 From producers, gatherers, and/or gas processors				
2.2 From pipeline, distribution, and/or storage operators				
2.3 From synthetic natural gas plants or SNG pipeline				
7.0 Other sources of supply (specify): (Source and/or kind of fuel)				
(Continue on Part VI, if more space is needed)				
8.0 Total supply within report State				

**PART V. DISPOSITION OF NATURAL AND SUPPLEMENTAL GAS WITHIN OR TRANSPORTED OUT OF REPORT STATE**

9.0 Used in pipeline, storage and/or distribution operations	Volume (Mcf at 14.73 psia)	e or f	Cost or Revenue (Dollars)	e or f
5.4 Delivered directly to consumers: (Type of transaction and consumer)	(Number of consumers)			
5.4.1 Residential sales				
5.4.2 Commercial sales				
5.4.3 Industrial sales				
5.4.4 Electric utility sales				
6.0 Average heat content of gas delivered directly to consumers (Btu per cubic foot)	Btu			
10.0 Other disposition (specify)				
(Continue on Part VI, if more space is needed)				
11.0 Total disposition accounted for				
12.0 Unaccounted for gas supply (+) or disposition (-)				

**EIA-176, ANNUAL REPORT OF NATURAL AND SUPPLEMENTAL GAS SUPPLY AND DISPOSITION, 19**

EIA COPY Page 3

## **Form EIA-627, "Annual Quantity and Value of Natural Gas Report"**

### **Survey Design**

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.

### **Survey Universe and Response Statistics**

Form EIA-627 is mailed to energy or conservation agencies in all 33 natural gas producing States. All producing States participate voluntarily in the EIA-627 survey by filing the completed form or by responding to telephone contacts. For 1991, data on the quantities of nonhydrocarbon gases removed were reported by the appropriate agencies of 23 of the 33 States. These 23 States accounted for 59 percent of total 1991 gross withdrawals. In addition, gross withdrawal data from Kansas, Oklahoma, Louisiana, and Montana, which together accounted for 36 percent of total production, excluded all or most of the nonhydrocarbon gases removed on leases.

### **Summary of Form EIA-627 Data Reporting Requirements**

Form EIA-627 is a multipart annual form that 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 million cubic feet at the State's standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

### **Routine Form EIA-627 Edit Checks**

Each filing of Form EIA-627 is manually checked for reasonableness and mathematical accuracy. Information on the forms is compared to totals of monthly data reported to the Interstate Oil and Gas Compact Commission (see Appendix B, "Data Sources"). 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-627**

Data from Form EIA-627 are also published in the EIA publication, *Natural Gas Annual*.

## **Interstate Oil and Gas Compact Commission Form "Monthly Report of Natural Gas Production"**

### **Survey Design**

The Interstate Oil Gas Compact Commission (IOGCC) is an organization comprised of 32 gas and oil producing States; the Governor of each State sits on the board of the IOGCC. The IOGCC form, "Monthly Report of Natural Gas Production," (Figure B4) is a voluntary report filed to the IOGCC by most of the producing States. The IOGCC forwards copies of these forms to the EIA. The purpose of the form is to standardize, to the extent possible, the reporting of natural gas data by the States. Data are not considered proprietary.

### **Survey Universe and Response Statistics**

Most of the 32 States report data to the IOGCC. Two exceptions are Florida, which submits its own form, and California, whose data are taken from the Conservation Committee of California Oil Producers publication. Reports on State production are forwarded to the EIA by the IOGCC approximately 80 days after the end of the report month.

**Figure B3. Form EIA-627**

Form Approved  
OMB No. 19050175  
Expires: 12/31/93

U. S. DEPARTMENT OF ENERGY  
Energy Information Administration

# ANNUAL QUANTITY AND VALUE OF NATURAL GAS REPORT

This report is collected under P. L. 93-275, Federal Energy Administration Act of 1974. Your voluntary cooperation and response are urgently needed to provide comprehensive, accurate and timely energy information. Because the data collected on EIA 627 are already aggregated by state, no confidentiality pledges are required.

**EIA-627. ANNUAL QUANTITY AND VALUE OF NATURAL GAS REPORT****PART III. Value of Marketed Production (Wellhead Sales Prices)**

Enter the available value of marketed production

**REPORT IN THOUSANDS OF DOLLARS**

Enter the quantity of marketed production associated with the value entered

**REPORT IN MILLIONS OF CUBIC FEET****NOTE:** The value reported should represent wellhead sales prices including charges for natural gas plant liquids subsequently removed from the gas and for gathering and compression, in addition to state production, severance, and/or similar taxes.Does your computation of wellhead value agree with the above conditions? Yes        No       

Complete the table below only if your method of reporting is inconsistent with the above note. For each item in column (a) of the table, enter an 'X' in column (b) or (c) to indicate whether the item is included or excluded from the amount reported.

Item (a)	Included (b)	Excluded (c)
Natural gas plant liquids		
Lease condensate		
Gathering and compression charges		
State production, severance, and/or similar taxes		

**PART IV. COMMENTS**

Enter any additional comments including identification and explanation of any data elements submitted based on definitions differing from those provided for the previous year.  
If more space is needed, please attach separate sheet(s).

Name of Contact Person \_\_\_\_\_

Phone Number \_\_\_\_\_

Complete and return to: Energy Information Administration, Mail Station BG-094 Forrestal,  
U.S. Department of Energy, Washington, D.C. 20585, Attn: Form EIA-627

Figure B4. IOGCC Form



## INTERSTATE OIL AND GAS COMPACT COMMISSION

900 Northeast 23rd Street ■ PO Box 53127 ■ Oklahoma City, Oklahoma 73152-3127 ■ Phone: 405/525-3556 ■ Fax: 405/525-3592

**Chairman:**  
Joan Finney  
Governor of Kansas

**Past Chairmen:**  
David Walters  
Governor of Oklahoma

Mike Sullivan  
Governor of Wyoming

Edwin W Edwards  
Governor of Louisiana

Bruce King  
Governor of  
New Mexico

**Executive Director:**  
W. Timothy Dowd

**MEMBER STATES:**

ALABAMA ALASKA

ARIZONA ARKANSAS

CALIFORNIA

COLORADO ILLINOIS

INDIANA KANSAS

KENTUCKY LOUISIANA

MARYLAND MICHIGAN

MISSISSIPPI

MONTANA NEBRASKA

NEVADA NEW MEXICO

NEW YORK NORTH

DAKOTA OHIO

OKLAHOMA

PENNSYLVANIA

SOUTH DAKOTA TEXAS

UTAH VIRGINIA

WEST VIRGINIA

WYOMING

**ASSOCIATES:**

GEORGIA IDAHO

NORTH CAROLINA

OREGON SOUTH

CAROLINA WASHINGTON

Monthly Report of Natural Gas Production for the State of \_\_\_\_\_

Month of \_\_\_\_\_

Please return two copies of this report as soon as the figures are available after the close of the month for which data are reported. Reports should be addressed to:

Interstate Oil and Gas Compact Commission  
P.O. Box 53127  
Oklahoma City, OK 73152-3127.

Name of Reporting Agency \_\_\_\_\_

Address \_\_\_\_\_

Correspondent & Title \_\_\_\_\_

Please adjust all volumes to the same pressure base:

Report pressure base used ( \_\_\_\_\_ lbs. absolute at 60° F.)

(Millions of Cubic Feet)

1. Gross gas production\*
  - (a) Natural gas from gas and condensate wells
  - (b) Natural gas from oil wells (casinghead)
2. Quantity of natural gas returned to formation for repressuring, pressure maintenance and cycling.
3. Quantity of natural gas vented to air or burned in flares on the lease or at gas processing plants.

\* Include amounts delivered as royalty payments or consumed in field operations. Please provide best estimate when gas is not metered.

## **Summary of Data Requirements**

The IOGCC form consists of three questions on one page, and requires volumetric information on gross production, quantities of gas vented or flared, and gas used for repressuring.

## **Routine Edit Checks**

State data are checked for reasonableness and, in the event of problems, the appropriate State agency is called.

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

### **Survey Design**

Beginning in January 1991, the EIA-191, "Underground Natural Gas Storage Report," was revised. All prior data on the storage of natural gas was 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 new form will collect storage data by State, field, and reservoir of which there are approximately 400 operating reservoirs in the United States. Data are considered proprietary.

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. FERC jurisdictional firms will continue to file the FERC-8 in addition to the new EIA-191.

### **Survey Universe and Response Statistics**

The same group of 92 companies that operate underground facilities will file the new Form EIA-191. Of these companies, 40 are subject to the jurisdiction of

FERC and are required to report data on Form FERC-8.

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 is a multipart form that reports the quantities of gas in storage, injections and withdrawals, and the location (including State and county, field, reservoirs) and capacity of underground storage reservoirs along with peak day send out during the reporting period. Information on co-owners of storage reservoirs is also required.

Collection of the survey is on a custody basis, although some respondent ownership data are required. Information requested must be provided within 10 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. In the case of most estimated filings, the necessary revisions are reflected in subsequent scheduled filings or in a revised submission that provides actual data. 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, and 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* contains data from the EIA-191 survey.

**Figure B5. Form EIA-191**

Form Approved  
OMB No. 19050175  
Expires: 12/31/93

U. S. DEPARTMENT OF ENERGY  
ENERGY INFORMATION ADMINISTRATION  
WASHINGTON, D.C. 20585

# UNDERGROUND GAS STORAGE REPORT

I. RESPONDENT IDENTIFICATION DATA

Street or Post Office Box: .....  
City, State, Zip Code: .....

Energy Information Administration/Natural Gas Monthly August 1993

This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to report may result in criminal fines, civil penalties, and other sanctions as provided by law. See "Provisions for Confidentiality" in the General Instructions for confidentiality statement. Public reporting burden for this collection of information is estimated to average 3.6 hours per response, including the time of reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Energy Information Administration, Office of Statistical Standards, EI-73, 1000 Independence Ave., S.W., Washington, DC 20585, and to the Office of Information and Privacy Affairs, Office of Management and Budget, Washington, DC 20503.

		Tel. No. (Include Area Code and Extension)			
		Report Period		M o Y r	
II. GAS STORAGE DATA (All volumes in Mcf - 14.73 psia - 60°F)		Storage Field Capacity		Withdrawals	
Storage Field Name		State		Maximum Deliverability (Mcfd)	
Reservoir Name(s)		Location County		Total Gas In Storage	
				Injections	
<input type="checkbox"/> Estimated <input type="checkbox"/> Actual <input type="checkbox"/> Revised		Base Gas		Working Gas	
A Respondent's Gas in Field Operated by Respondent					
B Gas Belonging to Others in Field Operated by Respondent					
Total Gas (Sum of A and B)					
		Day			
Peak Day Withdrawals (in Mcf)		Date			
Storage Field Capacity		Withdrawals			
Storage Field Name		State		Maximum Deliverability (Mcfd)	
Reservoir Name(s)		Location County		Total Gas In Storage	
				Injections	
<input type="checkbox"/> Estimated <input type="checkbox"/> Actual <input type="checkbox"/> Revised		Base Gas		Working Gas	
A Respondent's Gas in Field Operated by Respondent					
B Gas Belonging to Others in Field Operated by Respondent					
Total Gas (Sum of A and B)					
		Day			
Peak Day Withdrawals (in Mcf)		Date			
III. CERTIFICATION					
I certify that the information submitted in this report is the most accurate available at this time to the best of my knowledge.					
Name (Type or Print)		Signature		Date	
Title					

## **Form FERC-11, "Natural Gas Pipeline Company Monthly Statement"**

### ***Survey Design***

The collection of monthly data from major pipeline companies was begun in December 1964 by the Federal Power Commission (FPC). On October 1, 1977, FPC ceased to exist, and its functions and regulatory responsibilities were transferred to the Secretary of Energy and to the Federal Energy Regulatory Commission (FERC), an independent commission within the Department of Energy.

Information collected on Form FERC-11 (Figure B6) is used by FERC in carrying out its regulatory authority. Form FERC-11 is a monthly regulatory reporting form rather than one filed for statistical purposes. Data are not considered proprietary.

### ***Survey Universe and Response Statistics***

Form FERC-11 is filed by major interstate natural gas pipeline companies whose combined sales for resale and gas transported interstate or stored for a fee exceeded 50 billion cubic feet in the previous calendar year. Approximately 50 pipeline companies report data on Form FERC-11. Natural gas pipeline companies are monitored annually to determine whether each has met the requirements for classification as a major pipeline.

Information is collected monthly by mail. Historically, the response rate has been 100 percent.

### ***Summary of Form FERC-11 Data Requirements***

Form FERC-11 requires information on revenues, expenses, and sales data, as well as volumetric data on purchases and production.

Submission of Form FERC-11 is required no later than 40 days after the close of the report month. The form requires reporting of both preliminary data for the report month and final data for the same month in the previous year. All data are reported on an equity basis.

### ***Routine Form FERC-11 Edit Checks***

The completed Form FERC-11 is sent on disk along with two facsimiles of the form to FERC. FERC loads these disks on a electronic data file. This file is transmitted to EIA for further processing and editing. Edit

reports are produced of the current file and are reviewed manually. This review is to ensure consistency in reporting within and among utilities in the presentation of current and 12-month financial sales data.

### ***Other EIA Publications Referencing Form FERC-11***

The Energy Information Administration publication *Monthly Energy Review* contains data from Form FERC-11.

## **Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas"**

### ***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). Since 1979, the Energy Information Administration (EIA) has had the responsibility for collecting Form FPC-14. Data are not considered proprietary.

### ***Survey Universe and Response Statistics***

The Form FPC-14 is filed annually by each organization or individual having authorization to import and export natural gas regardless of whether any imports or exports took place during the reporting year. The authorization to import and export was originally granted by the FPC. In 1977, it was transferred to the Economic Regulatory Administration (ERA) and it now resides with the Office of Fuels Programs in the Office of Fossil Energy. In 1990, 228 companies met the reporting criteria, only 102 reported imports or exports of natural gas.

The respondent list for the Form FPC-14 is updated at the beginning of each year. All new respondents with authorization to import or export natural gas are added to the list and respondents whose licenses have expired are deleted. Five copies of Form FPC-14 are mailed in February to all companies authorized to import or export natural gas. The completed original and three copies are to be filed with the EIA on or before March 31 of each year, for the preceding calendar year. Companies that have not filed by March 31 are contacted.

**Figure B6. Form FERC-11**

<b>U.S. DEPARTMENT OF ENERGY</b> Federal Energy Regulatory Commission Washington, D.C. 20426		Form Approved, OMB No. 1902-0032 (Expires 6-30-90) Company Code Number				
<b>FERC FORM NO. 11: NATURAL GAS PIPELINE COMPANY MONTHLY STATEMENT</b>		Month Being Reported 19_				
This report is mandatory under the authority granted by Sections 10 and 16 and sanctions provided by Section 21(b) of the Natural Gas Act. Failure to report may result in criminal fines, civil penalties and other sanctions as provided by law.						
<b>PART I: IDENTIFICATION</b>						
1. Name of Company						
2. Address of Company (1) Number and Street		(2) City	(3) State	(4) Zip Code		
3. Person Authorized To Sign This Report (1) Signature		(2) Phone Number (Including area code)				
<b>PART II: REVENUE DATA</b>						
Line No. (a)	Item (b)	<b>Revenues</b> (In thousands of dollars)		<b>Sales</b> (In millions of cubic feet)		Foot- note (g)
		Current Year (c)	Previous Year (d)	Current Year (e)	Previous Year (f)	
4	Sales of Natural Gas					
5	Firm Industrial					
6	Off-peak Industrial					
7	Interruptible Industrial					
8	TOTAL INDUSTRIAL (Enter total of lines 5, 6 and 7)					
9	Other Ultimate Consumers					
10	TOTAL SALES TO ULTIMATE CONSUMERS (Enter total of lines 8 and 9)					
	Sales For Resale (483)					
11	Total Major Gas Pipelines					
12	Total to All Other Pipelines and Gas Utilities					
13	TOTAL SALES FOR RESALE (Enter total of lines 11 and 12)					
14	TOTAL SALES OF NATURAL GAS (Enter total of lines 10 and 13)					
15	Intracompany Transfers (485)					
16	Revenues From Transportation of Gas of Others (489)				(Enter volume of gas transported)	
17	Provision for Rate Refunds (496)					

**FERC FORM NO. 11 (REVISED 12-84)**

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Page 1 of 4

Company Code Number		Month and Year Being Reported		
<b>PART III: INCOME DATA</b>				
Line No. (a)	Item (b)	Current Year (In thousands of dollars) (c)	Previous Year (In thousands of dollars) (d)	Foot-note (e)
18	Gas Operating Revenues (400)			
19	Operation and Maintenance Expense (401, 402)			
20	Depreciation, Depletion and Amortization Expense (403-407)			
21	Taxes Other Than Income Taxes, Utility Operating Income (408.1)			
22	Total Gas Operating Expenses (401, 402, 403-407, 408.1, 409.1, 410.1, 411.1, 411.4)			
23	Net Gas Operating Revenues (Enter the result of lines 18 minus 22) (including Plant Leased to Others)			
24	Total Gas Utility Operating Income (Refer to specific instruction for line 24.)			
25	Allowance For All Funds Used During Construction - Credit (419.1, 432)			
26	Total Income Before Interest Charges (427-432) and Extraordinary Items (409.3, 434,435)			
27	Net Income (433) Before Extraordinary Items (434, 435), Income Taxes (409.1, 409.2, 409.3, 410.1, 410.2, 411.1, 411.2), and Investment Tax Credits (411.4, 411.5, 420)			
28	Net Income (Monthly Amount Related to 433.)			
<b>PART IV: OTHER SELECTED DATA</b>				
Line No. (a)	Item (b)	Current Year (In thousands of dollars) (c)	Previous Year (In thousands of dollars) (d)	Foot-note (e)
29	Gas Utility Plant in Service (101)			
30	Accumulated Provision For Depreciation, Depletion, and Amortization of Gas Utility Plant (108, 111)			
31	Gas Plant Construction Work In Progress (107)			
32	Gross Additions To Construction Work In Progress (107) For This Month Being Reported			
33	Amount Collected Which Is Subject To Refund During This Month Being Reported			
34	Cumulative Amount Collected Since January 1 This Year Subject To Refund, At End Of This Month Being Reported			
35	Monthly Amount Subject To Refund Actually Refunded During This Month Being Reported			
36	Cumulative Amount Subject To Refund Refunded Since January 1 This Year, To The End Of This Month Being Reported			

Company Code Number		Month and Year Being Reported					
<b>PART V: OPERATION AND MAINTENANCE EXPENSE DATA</b>							
Line No. (a)	Item (b)	Amount (In thousands of dollars)		Gas Volume (In millions of cubic feet)		Foot- note (g)	
		Current Year (c)	Previous Year (d)	Current Year (e)	Previous Year (f)		
37	Manufactured Gas Production						
38	Liquefied Petroleum Gas						
39	Other Manufactured Gas						
40	<b>TOTAL (Enter total of lines 38 and 39)</b>						
41	Natural Gas Production						
42	Production and Gathering (750-769)						
43	Products Extraction (770-791)					(Enter thousands of gallons) 7	
44	Exploration and Development (795-798)						
Purchased Natural Gas From							
45	Producers (800, 801-803)						
46	Intracompany Transfers (800.1)						
47	Imports						
48	Major Gas Pipelines (800, 801-803)						
49	Other Pipelines (800, 801-803)						
50	Other Gas Purchases (804, 805, 805.1 minus line 68 - 71)						
51	<b>TOTAL (Enter total of lines 45 to 50)</b>						
52	Natural Gas Produced						
53	Exchange Gas - In (806)						
54	Exchange Gas - Out (806)						
55	Purchased Gas Expenses (807.1-807.5)						
56	Gas Withdrawn From Underground Storage - Debit (808.1, 809.1)						
57	Gas Delivered To Underground Storage - Credit (808.2, 809.2)						
58	Gas Used For Compressor Station Fuel - Credit (810)						
59	Gas Used For Products Extraction - Credit (811)						
60	Gas Used For Other Utility Operations - Credit (812)						
61	Other Gas Supply Expenses (813)						
62	<b>TOTAL GAS PRODUCTION (Enter total of lines 40, 42, 43, 44, 51, 53 to 61)</b>						
63	Storage Expenses (814-843.9)						
64	LNG Terminating and Processing Expenses (844.1-847.8)						
65	Transmission Expenses (850-867)						
66	Distribution Expenses (870-894)						
67	Other Gas Purchased and Produced (Entries here should not be included under any other item in this part.)						
68	Liquefied Natural Gas (804.1)						
69	Gasified Coal						
70	Synthetic Gas [Reformed (gasified) liquid hydrocarbons.]						
71	<b>TOTAL (Enter total of lines 68 to 70)</b>						
72	All Other Operating and Maintenance Expenses (901-905, 907-916, 920-931, 935)						
73	<b>TOTAL OPERATING AND MAINTENANCE EXPENSES (Enter total of lines 62, 63, 64, 65, 66, 71, 72)</b>						

### ***Routine Form FPC-14 Edit Checks***

Respondents are required to certify the accuracy of all data reported. The survey forms are checked at the EIA for reasonableness and accuracy. If errors are found the companies are required to file corrected data. The data are processed at the EIA and published as reported. 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 prices are in U.S. dollars and import/export prices are those paid at the U.S. border (except exports of LNG are those prices paid at the point of sale and delivery in Yokohama, Japan).

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

This report is prepared quarterly by the Office of Fuels Programs in the Office of Fossil Energy based on information submitted by all firms having authorization to import or export natural gas. All data on this report are considered preliminary until the annual data on the Form FPC-14 are final, usually in September of the following year.

## ***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 391 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. 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 90 percent, and responses received after follow-up, 100 percent.

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.

Figure B7. Form FPC-14

FEDERAL ENERGY REGULATORY COMMISSION  
Washington, D.C. 20426

ANNUAL REPORT FOR  
IMPORTERS AND EXPORTERS OF NATURAL GAS

Form Approved  
OMB Number: 1902-0027  
Expiration Date 09/30/92

GENERAL INSTRUCTIONS

1. The completed original and 3 conformed copies of this report shall be filed with the Federal Energy Regulatory Commission, Washington, D.C. 20426 on or before March 31, of each year, for the preceding calendar year.
2. The report will be filed by each person having authorization to import or export natural gas.
3. Use a separate schedule for each authorization. If one authorization involves more than one import or export point, a separate schedule must be filed for each point.
4. All volumes reported in Mcf will be at 14.73 Psia and 60°F.
5. Where transactions are based primarily on volumetric measurement, weighted average Btu data should be used to estimate total monthly Btu's.
6. Amounts paid or received and cost or receipts shall be reported in U.S. Dollars.
7. DEFINITIONS: — Transporter—the party or parties, other than buyer or seller, owning the facilities by which gas or LNG is physically transferred between buyer and seller; Costs—all expenses incurred by importer up to the U.S. point of delivery for the reported quantity imported; Receipts—all revenues received by exporter for the reported quantity exported.

Name of Respondent	Address of Respondent	Year Ending December 31, _____
--------------------	-----------------------	-----------------------------------

SCHEDULE I — GASEOUS PHASE NATURAL GAS

NOTE: If authorization granted is increased, decreased, or extended under a succession of docket numbers and all related gas moved through the same border facilities and authorized expansions thereof, moved to or from the same purchaser or supplier, and was subject to the same rate, such transaction shall be combined for reporting purposes and appropriate Docket Numbers shown.

Report for (Check one) <input type="checkbox"/> Import <input type="checkbox"/> Export		Foreign Seller or Foreign Buyer			
U.S. Entry or Exit Point		Transporter			Docket Number(s)
Line No	Month (a)	QUANTITY RECEIVED OR SHIPPED AT THE ENTRY OR EXIT POINT			Amount Paid or Received at Entry or Exit Point (f)
		Peak Day (b)	McF (c)	McF (d)	
1	January				
2	February				
3	March				
4	April				
5	May				
6	June				
7	July				
8	August				
9	September				
10	October				
11	November				
12	December				
13		TOTAL			
ANNUAL WEIGHTED AVERAGE IN Btu's PER CUBIC FOOT (Line 13, (Column (e) ÷ (Column (d) X 1000)))			ANNUAL WEIGHTED AVERAGE PRICE IN CENTS PER MMBtu (Line 13, Column (f) ÷ Column (e) X 100)		

FPC-14 (8-82)

**Figure B8. Form EIA-857**

EIA-857 (Revised 1991)

U.S. Department of Energy  
Energy Information Administration

Form Approved  
OMB No. 19050175  
Expires: 12/31/93

**MONTHLY REPORT OF NATURAL GAS PURCHASES AND DELIVERIES TO CONSUMERS**

This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to report may result in criminal fines, civil penalties, and other sanctions as provided by law. See section VI of the instructions for the confidentiality statement. Public reporting burden for this collection of information is estimated to average 4 hours per response, including time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden or any other aspect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Office of Statistical Standards E1-71, Mail Station, 2F-081 Forrestal, 1000 Independence Ave. SW, Washington, DC 20585, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Affix Identification Label or Enter:		Return completed forms to:																																																						
01 Control No.: _____		Energy Information Administration Mail Station: BG-094 U.S. Department of Energy Washington, D.C. 20585 Attn. Form EIA-857																																																						
02 Company Name: _____																																																								
State of Operation: _____																																																								
<b>SECTION I — Natural Gas Purchases and Deliveries to Consumers</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;"></th> <th style="width: 15%; text-align: center;">Report Period Mo.</th> <th style="width: 15%; text-align: center;">Yr.</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>Purchased Gas Received in Distribution Service Area .....</td> <td style="text-align: right;">03</td> <td style="text-align: right;"> </td> <td style="text-align: right;">04</td> </tr> <tr> <td>Delivered to Residential Consumers (Onsystem Sales) .....</td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> </tr> <tr> <td>Delivered to Commercial Consumers (Onsystem Sales) .....</td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> </tr> <tr> <td>Delivered to Industrial Consumers (Onsystem Sales) .....</td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> </tr> <tr> <td>Delivered to Electric Utilities (Onsystem Sales) .....</td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> </tr> <tr> <td>Transported to Residential Consumers .....</td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> </tr> <tr> <td>Transported to Commercial Consumers .....</td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> </tr> <tr> <td>Transported to Industrial Consumers .....</td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> </tr> <tr> <td>Transported to Electric Utilities .....</td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> </tr> <tr> <td>Total Delivered and Transported to Consumers .....</td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> </tr> <tr> <td>Average Btu Content of Gas Delivered to Consumers .....</td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> <td style="text-align: right;"> </td> </tr> <tr> <td colspan="4" style="text-align: right;">(Btu/cu. ft.)</td> </tr> </tbody> </table>						Report Period Mo.	Yr.		Purchased Gas Received in Distribution Service Area .....	03		04	Delivered to Residential Consumers (Onsystem Sales) .....				Delivered to Commercial Consumers (Onsystem Sales) .....				Delivered to Industrial Consumers (Onsystem Sales) .....				Delivered to Electric Utilities (Onsystem Sales) .....				Transported to Residential Consumers .....				Transported to Commercial Consumers .....				Transported to Industrial Consumers .....				Transported to Electric Utilities .....				Total Delivered and Transported to Consumers .....				Average Btu Content of Gas Delivered to Consumers .....				(Btu/cu. ft.)			
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<b>SECTION II — Footnotes</b>																																																								

<b>SECTION III - CONTACT PERSON AND CERTIFICATION</b>	
Contact Person: 16. Name:	(Area Code - Number--Extension 17. Telephone:
Certification: I certify that the information provided hereon is true and accurate or, where indicated on the form, reasonable estimates to the best of my knowledge.	
18. Name:	19. Title:
Signature:	Date

## **Appendix C**

### **Statistical Considerations**

## 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 interstate pipeline companies, intrastate pipeline companies, producers, and local distribution companies. The survey provides data that are used each month to estimate the volume and price for onsystem sales of natural gas by State and the volume of natural gas delivered for the account of others, 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 1,705 companies. These companies were respondents to the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for reporting year 1990 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 1990. As a supplement, two companies with no deliveries to end users during 1990 but having subsequently started delivering very large volumes were sampled with certainty. 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 391 respondent companies. While some mergers and acquisitions were uncovered as a result of the initial mail-out, all resulted in a substitution of respondent companies rather than a reduction in the number of respondents. The sample for the 1992 survey year contains a total of 391 respondent companies.

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

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

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

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

where:

$C_j$  = cutoff value for consumer sector j,

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

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

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

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

$X..$  = the sum within State of annual gas volumes in all consumer sectors.

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

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

$$m = n \frac{X2}{X..} \quad (2)$$

where:

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

$X2$  = the sum within State of the  $X_i$  for all companies in the noncertainty stratum.

Companies were listed in ascending order according to their measure of size and then a cumulative measure of size in the stratum was calculated for each company. The cumulative measure of size was the sum of the measures of size for that company and all preceding companies on the list. An interval of width I for selecting the companies systematically was calculated using ( $I = \frac{X2}{m}$ ). A uniform random number R was selected between zero and I. The first sampled company was the first company on the list to have a cumulative measure of size greater than R. The second company selected was the first company on the list to have a cu-

mulative 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.

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).

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

West Virginia: companies delivering only residential or commercial gas and all other companies.

Arkansas, Colorado, Georgia, Pennsylvania, and Tennessee: companies delivering 1 billion cubic feet or more of gas and companies delivering less than 1 billion cubic feet of gas.

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

New York: companies delivering 8 billion cubic feet or more of gas and companies delivering less than 8 billion cubic feet of gas.

## 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 1990 submissions of Form EIA-176:

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

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

where:

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

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

The ratio estimator is applied as follows:

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

where:

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

$y_{jt}$  = 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  $j$ ,

$V_j$  = 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 33 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.

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

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

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

where:

$F_t$  = imputed gas volume for current month  $t$ ,

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

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

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

## Final Revisions

**Adjusting Monthly Data to Annual Data.** After the annual data reported on the Form EIA-176 have been submitted, edited, and prepared for publication in the *Natural Gas Annual*, revisions are made to monthly data. The revisions are made to the volumes and prices of natural gas delivered to consumers that have appeared in the *Natural Gas Monthly* to match them to the annual values appearing in the *Natural Gas Annual*. The revised monthly estimates allocate the difference between the sum of monthly estimates and the annual reports according to the distribution of the estimated values across the months.

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

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

The formula for revising the estimated consumption is:

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

where:

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

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

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

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

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

The formula for revising the estimated revenue is:

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

where:

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

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

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

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

**Revision of Volumes and Prices for Deliveries to Electric Utilities.** Revisions to monthly electric utilities data are published throughout the year as they become available.

## Reliability of Monthly Data

The monthly data published in this report are subject to two sources of error - nonsampling error and sampling error. Nonsampling errors occur in the collection and processing of the data. See the discussion of the Form EIA-857 in Appendix B for a description of 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.

**Table C-1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, May 1993**

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	79	535	1,908	1,983	.08	.44	.49
Alaska	0	0	0	0	--	--	--
Arizona	16	12	0	20	.04	.02	--
Arkansas	92	72	95	150	.22	.10	.09
California	181	182	2,910	2,922	.05	.04	.08
Colorado	48	29	0	56	.02	.02	--
Connecticut	0	0	0	0	--	--	--
Delaware	0	0	0	0	--	--	--
District of Columbia	0	0	0	0	--	--	--
Florida	47	54	654	658	.39	.07	.59
Georgia	312	600	1,678	1,809	.45	.01	1.18
Hawaii	0	0	0	0	--	--	--
Idaho	0	0	0	0	--	--	--
Illinois	3,534	707	799	3,692	.91	1.73	.04
Indiana	589	12	2,278	2,353	.08	.34	.17
Iowa	39	255	315	407	.10	.30	.13
Kansas	850	9,155	9,521	13,236	.74	2.39	5.31
Kentucky	363	285	868	983	.78	.22	1.79
Louisiana	84	71	214	241	.11	.18	.02
Maine	0	0	0	0	--	--	--
Maryland	4	2	62	62	.01	.03	.08
Massachusetts	98	47	4	109	.27	.29	.13
Michigan	1,249	721	1,030	1,773	.20	.22	.08
Minnesota	869	298	569	1,080	.80	.51	.08
Mississippi	55	53	367	375	.41	.19	.15
Missouri	37,849	18,952	3,484	42,472	.88	3.23	.55
Montana	6	6	0	9	.01	.01	--
Nebraska	78	51	130	160	.12	.04	.52
Nevada	0	0	0	0	--	--	--
New Hampshire	0	0	0	0	--	--	--
New Jersey	0	0	0	0	--	--	--
New Mexico	299	355	55	467	.52	2.29	--
New York	1,220	1,296	1,335	2,225	.69	.28	.38
North Carolina	43	39	520	523	.04	.07	.18
North Dakota	0	0	0	0	--	--	--
Ohio	633	361	7,669	7,704	.11	.03	.99
Oklahoma	121	557	19	571	.02	.05	--
Oregon	0	0	0	0	--	--	--
Pennsylvania	307	63	2,170	2,192	.06	.05	.65
Rhode Island	0	0	0	0	--	--	--
South Carolina	234	123	88	279	.33	.09	.30
South Dakota	0	0	0	0	--	--	--
Tennessee	496	139	361	629	.52	.08	.08
Texas	1,496	9,884	22,674	24,780	2.26	1.89	.13
Utah	0	0	0	0	--	--	--
Vermont	0	0	0	0	--	--	--
Virginia	195	66	284	351	1.03	.56	.10
Washington	0	0	0	0	--	--	--
West Virginia	1,351	226	247	1,392	2.81	.63	.47
Wisconsin	847	1,249	605	1,626	.48	1.39	1.07
Wyoming	6	22	449	449	.08	.08	.22
U. S. Totals	38,157	23,378	26,588	52,052	.94	.87	.25

-- = Not Applicable.

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

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:

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

where:

$H$  = the total number of strata

$N_h$  = the total number of companies in stratum  $h$

$n_h$  = the sample size in stratum  $h$

$y_i$  = the reported monthly volume for company  $i$

$x_i$  = the reported annual volume for company  $i$

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

## **Appendix D**

### **Natural Gas Reports and Feature Articles**

## Appendix D

# Natural Gas Reports and Feature Articles

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

- *Natural Gas Annual 1991*, DOE/EIA-0131(91), October 1992.
- *Natural Gas Annual 1991 Supplement: Company Profiles* DOE/EIA-0131(91/S), January 1993.
- *Statistics of Interstate Natural Gas Pipeline Companies 1991*, DOE/EIA-0145(91), December 1992.
- *Gas Supplies of Interstate Natural Gas Pipeline Companies 1991*, DOE/EIA-0167(91), December 1992.

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

- *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves - 1991 Annual Report*, DOE/EIA-0216(91), September 1992.
- *Monthly Energy Review*, DOE/EIA-0035. Published monthly. Provides national aggregate data for natural gas, natural gas liquids, and other energy sources.
- *Annual Report to Congress 1992*, DOE/EIA-0173(92), March 1993. Published annually.
- *Annual Energy Outlook 1993*, DOE/EIA-0383(93), January 1993. Published annually.
- *Annual Energy Review 1992*, DOE/EIA-0384(92), June 1993. Published annually.
- *Short-Term Energy Outlook*, DOE/EIA-0202. Published quarterly. Provides forecasts for next six quarters for natural gas and other energy sources.

### **Selected One-Time Natural Gas and Related Reports**

- *Natural Gas 1992: Issues and Trends*, DOE/EIA-0560(20), March 1993.
- *Natural Gas Productive Capacity for the Lower 48 States, 1982 through 1993*, DOE/EIA-0542(93), March 1993.
- *Geologic Distributions of U.S. Oil and Gas*, DOE/EIA-0557, July 1992.
- *Capacity and Service on the Interstate Natural Gas Pipeline System 1990*, DOE/EIA-0556, June 1992.
- *Effects of Interruptible Natural Gas Service: Winter 1989-1990*, SR/OG-91-01, June 1991.
- *The Outlook for Natural Gas Imports: Supporting Analysis for the National Energy Strategy*, SR/NES/90-06, January 1991.
- *The Domestic Oil and Gas Recoverable Resource Base: Supporting Analysis for the National Energy Strategy*, SR/NES/90-05, December 1990.
- *U.S. Oil and Gas Reserves by Year of Field Discovery*, DOE/EIA-0534, August 1990.

### **Selected and Recurring Natural Gas and Related Data Reference Reports**

- *Directory of Energy Data Collection Forms*, DOE/EIA-0249(92), January 1993.
- *Oil and Gas Field Code Master List, 1991*, EIA-0370(91), January 1992.

## **NGM Feature Articles**

### **March 1990**

#### **The Developing Natural Gas Futures Market and Its Potential Impact on Domestic Natural Gas Markets**

(Discusses futures markets vs. physicals markets, which include spot markets.)

### **April 1990**

#### **The Outlook for Natural Gas**

(Discusses projections of natural gas markets through the year 2010.)

### **May 1990**

#### **Domestic Natural Gas Reserves and Production Dedicated to Interstate Pipeline Companies, 1989**

(Provides preliminary data on natural gas reserves and production dedicated to the interstate market.)

### **June 1990**

#### **U.S. Natural Gas Imports and Exports - 1989**

(Contains final 1989 data on all U.S. imports and exports of natural gas.)

### **July 1990**

#### **Resurgence in Natural Gas Wellhead Productivity**

(Explores the factors that contributed to the recent increases in natural gas wellhead production.)

### **October 1990**

#### **Update on U.S. Coalbed Methane Production**

(Presents estimates of annual coalbed methane production through 1988 by basin and field.)

### **January 1991**

#### **Take-or-Pay Settlements**

(Presents information on the resolutions of the take-or-pay issue.)

### **February 1991**

#### **Recent Trends and Regional Variability in Underground Storage Activities**

(Discusses underground storage in the expansion of end-use markets.)

### **March 1991**

#### **Natural Gas Transportation Services: An Update**

(Reassesses transportation market activities by examining data through 1989 for major interstate pipeline companies.)

### **April 1991**

#### **An Overview of Recent Developments in the Underground Storage Market**

(Reviews the changing market for underground natural gas storage services in the United States.)

### **May 1991**

#### **Analysis of Long-Term Contracts for Imports of Canadian Natural Gas**

(Focuses on the contractual provisions that will govern imports of natural gas from Canada through the 1990's and beyond.)

### **June 1991**

#### **Natural Gas Productive Capacity for the Lower 48 States, 1980 through 1991**

(Summarizes the full report and contrasts the findings for two major producing regions: Texas and the Gulf of Mexico Outer Continental Shelf.)

## **July 1991**

### **The Outlook for Natural Gas 1991**

(Focuses upon the natural gas supply and market aspects of the forecasts contained in the *Annual Outlook for Oil and Gas 1991*.)

## **August 1991**

### **U.S. Natural Gas Imports and Exports - 1990**

(Contains final 1990 data on all U.S. imports and exports of natural gas.)

## **September 1991**

### **Background on the Natural Gas Industry**

(Focuses on changes in the industry that pertain to natural gas.)

### **Domestic Natural Gas Reserves and Production Dedicated to Interstate Pipeline Companies, 1990**

(Provides preliminary data on natural gas reserves and production dedicated to the interstate market.)

## **March 1992**

### **Revisions to Monthly Natural Gas Data**

(Discusses the revision errors for natural gas data.)

## **August 1992**

### **U.S. Natural Gas Imports and Exports - 1991**

(Contains final 1991 data on all U.S. imports and exports of natural gas.)

## **November 1992**

### **Natural Gas Futures Contract Market - The First 2 Years**

(Reviews the financial and economic significance of trading in natural gas futures markets.)

## **December 1992**

### **Three-Dimensional Seismology -- A New Perspective**

(Describes the impact 3D seismology will have on future U.S. reserves and production.)

### **Imports of Canadian Gas Under Long-Term Contracts**

(Addresses how regulatory changes have altered the contractual revisions of long-term agreements.)

## **March 1993**

### **Natural Gas 1992: Issues and Trends**

(Provides an overview of the natural gas industry in 1991 and 1992, focusing on trends in production, consumption, and pricing of natural gas.)

### **Natural Gas Productive Capacity**

(Analyzes monthly natural gas wellhead productive capacity and projects this capacity for 1992 and 1993.)

## **April 1993**

### **Revisions to Monthly Natural Gas Data**

(Discusses the revision errors for natural gas data.)

## **Appendix E**

### **Technical Contacts**

## Appendix E

# Technical Contacts

Section	Tables		Principal Data Sources	Technical Contact
<b>Summary Statistics:</b> Natural Gas Production and Consumption	1, 2, 3	Monthly: Annual:	Interstate Oil and Gas Compact Commission (IOGCC) EIA-627, "Annual Quantity and Value of Natural Gas Report"	Donna Dunston (202) 586-6135
		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"	Donna Dunston (202) 586-6135 Margo Natof (202) 586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Form FPC-14, "Annual Reports for Importers and Exporters of Natural Gas"	Norman Crabtree (202) 586-6181
<b>Price:</b> 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
Imports and Purchases from Producers	4	Monthly:	Form FERC-11, "Natural Gas Pipeline Company Monthly Statement"	James Keeling (202) 586-6107
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-627, "Annual Quantity and Value of Natural Gas Report"	Donna Dunston (202) 586-6135
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:	Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas"	Norman Crabtree (202) 586-6181
Producer Related Activities: Natural Gas Production	7	Monthly:	Interstate Oil and Gas Compact Commission (IOGCC)	Donna Dunston (202) 586-6135
Interstate Pipeline Activities:	8, 9, 10, 11, 12	Monthly:	Form FERC-11, "Natural Gas Pipeline Company Monthly Statement"	James Keeling (202) 586-6107
Underground Storage:	13, 14, 15, 16, 17	Monthly:	Forms FERC-8 and EIA-191, "Underground Gas Storage Report"	Rosemary Jameson (202) 586-6229
<b>Distribution and Consumption:</b>				
Deliveries to:				
Residential, Commercial, Industrial, Electric Utility, All Consumers	18 19 20 21 22	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:				

<b>City Gate</b>	<b>23</b>	<b>Monthly:</b>	<b>Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"</b>	<b>Roy Kass</b> (202) 586-4790
Residential,	24		Form FERC-423, "Cost and Quality of Fuels for Electric Power Plants"	
Commercial,	25			
Industrial,	26			
Electric Utility	27			
<b>Onsystem Sales</b>	<b>28</b>	<b>Monthly:</b>	<b>Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"</b>	<b>Roy Kass</b> (202) 586-4790
<b>Heating Degree Days</b>	<b>29</b>	<b>Seasonal:</b>	<b>National Oceanic and Atmospheric Administration</b>	<b>Rosemary Jameson</b> (202) 586-6229 <b>Audrey Corley</b> (202) 586-4804 <b>Eva Fleming</b> (202) 586-6113
<b>Highlights</b>				
<b>Industry Overview</b>				

# Glossary

**Balancing Item:** Represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

**Base (Cushion) Gas:** The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

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

**City-gate:** A point or measuring station at which a gas distribution company receives gas from a pipeline company or transmission system.

**Commercial Consumption:** Gas used by nonmanufacturing organizations such as hotels, restaurants, retail stores, laundries, and other service enterprises, and gas used by local, State, and Federal agencies engaged in nonmanufacturing activities.

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

**Depreciation:** The loss in service value not restored by current maintenance, incurred in connection with the consumption or respective retirement of a gas

plant in the course of service from causes that are known to be in current operation and against which the utility is not protected by insurance; for example, wear and tear, decay, obsolescence, changes in demand and requirements of public authorities, and the exhaustion of natural resources.

**Dry Natural Gas Production:** Marketed production less extraction loss.

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

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

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

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

**Gross Withdrawals:** Full well stream volume, including all natural gas plant liquid and nonhydrocarbon gases, but excluding lease condensate. Also includes amounts delivered as royalty payments or consumed in field operations.

**Hinshaw Pipeline:** A pipeline or local distribution company that has received exemption, (by Section 1 (c) of the Natural Gas Act), from regulations pursuant to the Natural Gas Act. These companies transport interstate natural gas not subject to regulations under NGA.

**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.

**Major Interstate Pipeline Company:** A company whose combined sales for resale, and gas transported interstate or stored for a fee, exceeded 50 million thousand cubic feet in the previous year.

**Marketed Production:** Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations. See Explanatory Note 1 for discussion of coverage of data concerning nonhydrocarbon gases removed.

**Native Gas:** Gas in place at the time that a reservoir was converted to use as an underground storage reservoir as in contrast to injected gas volumes.

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

**Natural Gas Policy Act of 1978 (NGPA):** Signed into law on November 9, 1978, the NGPA is a framework for the regulation of most facets of the natural gas industry. See Explanatory Note 10 for a full discussion.

**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.

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

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

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

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

**Therm:** One-hundred thousand British thermal units.

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

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

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

**Working (Top Storage) Gas:** The volume of gas in an underground storage reservoir above the designed level of the base. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.

**DATE  
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**10/27/93**

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