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Released for Printing: February 1, 1994

Printed with soy ink on recycled paper

Cover: An artist's collage of typographical, illustrative, and photographic elements pertaining to natural gas and its uses. Design created by EIA, Office of Oil and Gas, Reserves and Natural Gas Division.

The *Natural Gas Monthly* (ISSN 0737-1713) is published monthly by the Energy Information Administration, 1000 Independence Avenue, SW, Washington, DC 20585, and sells for \$85.00 per year (price subject to change without advance notice). Second-class postage paid at Washington, DC 20066-9998, and additional mailing offices. POSTMASTER: Send address changes to *Natural Gas Monthly*, Energy Information Administration, EI-231, 1000 Independence Avenue, SW, Washington, DC 20585.

Natural Gas Monthly January 1994

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

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		
BLS	Bureau of Labor Statistics, U.S. Department of Labor	LNG	Liquefied Natural Gas
		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
		MMS	United States Minerals Management Service, U.S. Department of the Interior
Btu	British Thermal Unit		
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
		PGA	Purchased Gas Adjustment
FERC	Federal Energy Regulatory Commission	Tcf	Trillion Cubic Feet

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U.S. Coalbed Methane Production

by Herbert T. Black

Introduction

Coalbed methane has become a significant source of marketed gas production over the past 10 years in several States and, to a somewhat lesser but hardly unimportant extent, in the United States overall. Considered a danger to coal miners, as well as a hazard to conventional oil and gas drilling operations in the not-so-distant past, coalbed methane has now been proven to be a commercially viable resource target of value to gas exploration and production companies. A tax credit for coalbed methane production, now expired, helped to spur the recent boom in exploration for this nonconventional gas resource.

This article updates the Energy Information Administration's (EIA) coalbed methane production information through 1992 and presents it by geologic basin and by State. Because coalbed methane production was so heavily influenced by the tax credit for nonconventional gas (including coalbed methane), which was provided under Section 29 of the Crude Oil Windfall Profits Tax Act of 1980, and by various State laws concerning the ownership of the methane in coal beds, these topics are briefly highlighted.

U.S. coalbed methane production increased from 91.9 billion cubic feet obtained from 1,461 wells in 1989, when the EIA's last coalbed methane report was published, to 550 billion cubic feet from 5,743 wells in 1992 (Table FE1 and Figure FE1). The San Juan Basin of Colorado and New Mexico, and the Black Warrior Basin of Alabama accounted for almost 98 percent of total 1992 U.S. coalbed methane production. Initial reports on the San Juan Basin covering the first quarter of 1993 indicate that 1993 coalbed methane production may be as much as 40 to 50 percent higher than in 1992, even given year end 1992's expiration of the Section 29 tax credit. Other relatively minor--but rapidly increasing--volumes were produced in 1992 in the Vir-

ginia portion of the Central Appalachian Basin, the Wyoming portion of the Powder River Basin, and Colorado's Piceance and Raton basins.

In 1992, coalbed methane accounted for over 3 percent of U.S. dry gas production, a six-fold increase over 1989's 1/2 percent. Two types of nonconventional gas, coalbed methane and gas from low permeability (tight) reservoirs, together comprised over 10 percent of total U.S. dry gas production in 1992.¹ Coalbed methane made a highly significant contribution to 1992 State dry gas production in Alabama, Colorado, New Mexico, and Virginia, respectively accounting for 26, 26, 29, and 24 percent. U.S. proved reserves of coalbed methane increased from 8.2 to 10 trillion cubic feet during 1992 alone.² The National Petroleum Council (NPC) estimates the Nation's recoverable coalbed methane resource at 62 trillion cubic feet using current technology, and about 98 trillion cubic feet if applying advanced technology.³ The Potential Gas Committee estimates a potential coalbed methane resource of 90 trillion cubic feet in the lower 48 States and 57 trillion cubic feet in Alaska.

Past Studies

The EIA has published two previous articles about coalbed methane resources and production. The first, "Status of Coalbed Methane Recovery in the United States," was published in 1988. It focused on the geology of the coal basins, the estimated coalbed methane resources contained in them, and how coalbed methane reservoirs differ from conventional gas reservoirs. It provided only limited national-level production data through 1987.⁴ The second article, "Update on U.S. Coalbed Methane Production," published in 1990, provided additional information about the geology and coalbed methane resources of the significant coal

¹Energy Information Administration, "U.S. Production of Natural Gas from Tight Reservoirs," *Natural Gas Monthly*, October 1993, DOE/EIA-0130(93/10) (Washington, DC, October 1993).

²Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Proved Reserves - 1992 Annual Report*, DOE/EIA-0216(92) (Washington, DC, November 1993), p. 41.

³National Petroleum Council, *The Potential for Natural Gas in the United States*, Vol. II, *Source and Supply* (Washington, DC, December 1992), p. 122.

⁴Energy Information Administration, "Status of Coalbed Methane Recovery in the United States," *Natural Gas Monthly*, September 1988, DOE/EIA-0130(88/09) (Washington, DC, December 1988).

Table FE1. Coalbed Methane Production by State, 1978-1992
(Volumes in Billion Cubic Feet)

State	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	Total 1978-92
Alabama																
Production	--	--	0.01	0.05	1.62	3.41	6.43	8.69	13.38	17.08	20.08	23.49	36.46	68.24	92.01	290.95
Wells	--	--	3	26	73	100	184	252	325	392	504	914	1,898	2,963	3,047	
Colorado																
Production	0.04	0.04	0.04	0.04	0.03	0.13	1.03	0.50	0.49	2.41	5.88	12.61	27.32	48.39	83.88	182.82
Wells	1	1	1	1	2	31	46	47	55	97	154	233	494	640	788	
New Mexico																
Production	0.25	0.40	0.48	0.61	1.12	1.24	1.68	2.06	3.66	5.42	15.32	55.63	132.72	231.78	367.40	819.75
Wells	12	15	17	19	24	29	34	39	51	66	84	308	673	1,115	1,477	
Virginia																
Production	--	--	--	--	--	--	--	--	--	--	--	--	0.80	1.10	6.00	7.90
Wells	--	--	--	--	--	--	--	--	--	--	--	--	--	110	390	
Wyoming																
Production	--	--	--	--	--	--	--	--	--	--	--	0.17	0.31	0.55	0.58	1.61
Wells	--	--	--	--	--	--	--	--	--	--	--	6	17	37	41	
U.S. Totals																
Production	0.29	0.44	0.52	0.70	2.78	4.77	9.14	11.25	17.52	24.91	41.28	91.90	197.61	350.06	549.87	1,303.03
Wells	13	16	21	46	99	160	264	338	431	555	742	1,461	3,082	4,865	5,743	

Source: Energy Information Administration, Office of Oil and Gas, as derived from Dwight's Energydata, Inc., well production files and information from the Virginia Division of Gas and Oil.

basins. It also provided coalbed methane production data by basin and field for the first time, covering the period from 1970 through 1989. Information on gas desorption from coals and how that process affects production was presented, along with a discussion of updated drilling and well completion procedures. Because the location of most coal in the United States is already known, it was shown that production from coal beds is primarily an engineering problem of dealing with coal's unusual properties as a gas reservoir, and that the Section 29 tax credit and State coal gas ownership laws were therefore important in stimulating development of the resource.⁵

The Gas Research Institute (GRI) also recently published a comprehensive report on the current status of the coalbed methane industry that contains information on resources, production, geology, engineering, environmental and legal concerns, and company activity in the 11 productive U.S. coalbed methane basins.⁶

The Section 29 Tax Credit

Although it expired on December 31, 1992, an important factor in the development of coalbed methane's

potential has been the special tax credit provided under Section 29 of the Crude Oil Windfall Profits Tax Act of 1980. The credit was originally applicable to wells drilled (spudded) after December 31, 1979, and before January 1, 1990. This qualification period was extended twice, the first time for 1 year as a provision of the Technical and Miscellaneous Revenue Act of 1988 and most recently for 2 years as a provision of the Omnibus Budget Reconciliation Act of 1990. As a result, coalbed methane wells must have been spudded by December 31, 1992, to qualify for the tax credit on production for a subsequent 10-year period. The tax credit was worth over 90 cents per million British thermal units (Btu; roughly equivalent to one thousand cubic feet of methane) in 1992, a significant amount considering the average wellhead price of gas was \$1.86 per million Btu. Since it was intended to make nonconventional gas competitive at times of low oil prices, the credit was calculated via a formula that took into account the price of oil and an inflation factor. Because the price of oil was high in the early 1980's, the credit was not economically important then. But the sharp decline of world oil prices in the mid-1980's increased the value of the credit, which then helped to stimulate a boom in coalbed methane drilling. Even though the tax credit has now expired, information from the major coalbed methane producing States (presented in the next section) indicates that coalbed methane production will

⁵Energy Information Administration, "Update on Coalbed Methane Production," *Natural Gas Monthly*, October 1990, DOE/EIA-0130(90/10) (Washington, DC, December 1990).

⁶Gas Research Institute, "Coalbed Methane - State of the Industry," *Quarterly Review of Methane from Coal Seams Technology*, 11, 1 (August 1993), pp. 1-52.

Figure FE1. U.S. Coalbed Methane Production and Producing Wells, 1978-1992

Source: Energy Information Administration, Office of Oil and Gas, as derived from Dwight's Energydata, Inc., well production files.

Table FE2. Coalbed Methane Production from the San Juan Basin, Colorado and New Mexico, 1978-1992
(Volumes in Billion Cubic Feet)

Field	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	Total 1978-92
Basin Fruitland Coal																
Production	0.23	0.31	0.36	0.29	0.32	0.28	0.26	0.28	1.91	3.31	12.65	50.52	125.24	221.99	357.07	775.03
Wells	10	13	15	15	20	23	26	30	39	53	67	288	649	1,091	1,452	
Cedar Hill																
Production	0.02	0.09	0.11	0.32	0.80	0.96	1.42	1.78	1.74	2.10	2.67	5.11	7.48	9.78	10.33	44.72
Wells	2	2	2	4	4	6	8	9	12	13	17	20	24	24	25	
Ignacio Blanco																
Production	0.04	0.04	0.04	0.04	0.03	0.13	1.03	0.46	0.39	2.19	5.13	11.69	23.41	43.96	79.25	167.81
Wells	1	1	1	1	2	31	45	46	52	90	145	210	406	532	682	
Red Mesa																
Production	--	--	--	--	--	--	--	--	--	--	--	0.02	0.01	0.01	0.01	0.04
Wells	--	--	--	--	--	--	--	--	--	--	--	2	2	2	2	
Basin Totals																
Production	0.29	0.44	0.51	0.65	1.15	1.37	2.71	2.52	4.04	7.61	20.45	67.33	156.14	275.74	446.65	987.60
Wells	13	16	18	20	26	60	79	85	103	156	229	520	1,081	1,649	2,161	

* Production less than 0.005 billion cubic feet.

Source: Energy Information Administration, Office of Oil and Gas, as derived from Dwight's Energydata, Inc., well production files.

continue to rise significantly in the short and medium term for several reasons. First, many operators are still completing already drilled coalbed methane wells and are re-completing wells originally drilled to other, conventional reservoirs. Second, recently new or planned near-future pipeline capacity has resulted in the drilling of coalbed gas wells that still need to be connected to pipelines. Finally, coalbed methane has a "negative" decline curve as explained in EIA's October 1990 *Natural Gas Monthly* article, and many wells have still not reached their peak production levels.⁷

Production

The production information provided in this article is derived from the Dwight's Energydata, Inc., data bases, with the exception of the Virginia information, which was obtained directly from the State. According to the GRI report, there is very minor production in several other areas that are not listed in this article, including the Cherokee, Arkoma, and Forest City basins of the Midwest, the Uinta Basin of Utah, and the Northern Appalachian and Illinois basins.⁸ However, the total 1993 U.S. production, 550 billion cubic feet, is the same in both reports.

The majority of U.S. coalbed methane production is from the San Juan Basin of Colorado and New Mexico. At 446.7 billion cubic feet in 1992, it provided 80 percent of total 1992 U.S. coalbed methane production from only 38 percent (2,161) of all coal seam wells. This indicates that the San Juan Basin coalbed methane wells are more productive than is the average (Table FE2 and Figure FE2). Production increased 62 percent during 1992 alone. According to the GRI report, 300 wells were completed for production in 1992.⁹ Preliminary information for 1993 suggests that production in the basin will increase 40 to 50 percent over 1992's level. Much of the production increase is due to the fact that, while operators are drilling fewer new wells since the expiration of the Section 29 tax credit, there are a large number of wells that were drilled earlier that are only now being completed and hooked to pipelines. In addition, the nature of production from coal beds is such that it initially increases over time as the wells de-water, allowing the adsorbed gas to desorb from the coal. The early-stage increasing production phenomenon is still for the most part occurring in the San Juan Basin.

In the Black Warrior Basin of Alabama, 1992 production was 92 billion cubic feet, accounting for 17 percent of U.S. coalbed methane production from 53 percent (3,047) of all coal seam wells. Clearly, the wells in this basin are relatively small producers compared to those

⁷ Coalbed methane production tends to increase initially as the coals produce water, while conventional gas production decreases immediately. Hence, the term "negative" decline curve.

⁸ Gas Research Institute, "Coalbed Methane - State of the Industry," p. 4.

⁹ Gas Research Institute, "Coalbed Methane - State of the Industry," p. 4.

Figure FE2. Coalbed Methane Production and Producing Wells in the San Juan Basin, Colorado and New Mexico, 1978-1992

Source: Energy Information Administration, Office of Oil and Gas, as derived from Dwight's Energydata, Inc., well production files.

located in the San Juan Basin (Table FE3 and Figure FE3). Nevertheless, Black Warrior Basin coalbed methane production was up 35 percent during 1992. As in the San Juan Basin, new drilling in 1993 is expected to drop significantly due to the expiration of the Section 29 tax credit. More than 2,000 wells are now either being completed or re-completed, but new drilling decreased significantly in 1992, with only 144 new wells. This indicates the probability of continued increases in production, but only over the short to medium term.¹⁰

The Virginia portion of the Central Appalachian Basin is a new coalbed methane province. Questions about mineral rights ownership of the coalbed methane (as opposed to ownership of the coal itself) were at least temporarily resolved by forced pooling requirements for coalbed methane royalties specified in the Virginia Gas and Oil Act of 1990. As a result, production increased from a level of 1.1 billion cubic feet from 110 wells in 1991 to 6 billion cubic feet from 390 wells in 1992, or by 445 percent (Table FE4). The 1992 volume amounted to 24 percent of the State's total natural gas production, up from 7 percent in 1991. In 1992, the majority of the 769 drilling permit applications were for coalbed methane targets, including about 100 wells to be converted from coal mine vertical ventilation wells to coalbed methane production wells. About half of the 86 new wells drilled in 1992 were for coalbed methane.¹¹

In the Powder River Basin of Wyoming, 0.58 billion cubic feet of coalbed methane were produced from 41 wells in 1992 (Table FE4). Most of the production is from the Rawhide Butte Field. Although there is a large estimated in-place recoverable resource in this basin (30-103 trillion cubic feet), development has been spotty because of the unique nature of the coal reservoirs. They are thick and shallow Tertiary coals with low gas content, and have some free gas as well as the usual adsorbed gas.¹²

The Colorado portion of the Raton Basin is underdeveloped with respect to coalbed methane due to a lack of pipeline capacity through which to market the gas and to low initial production rates. Essentially all of the basin's existing coalbed methane wells are shut-in pending pipeline construction (Table FE5).¹³

The Piceance Basin of Colorado has produced significant volumes of coalbed methane only since 1990. It produced 4.63 billion cubic feet in 1992 from 104 wells (Table FE6 and Figure FE6). Initial high expectations of large production volumes derived from the large in-place recoverable resource estimate of 84 trillion

cubic feet have not been fulfilled, partly because lower permeabilities (a measure of ability of the rock to conduct fluid flow) were encountered than are characteristic of the San Juan Basin reservoirs. However, one field, the White River Field, gives an indication of ultimate promise for the basin. It has several wells with production rates of 500 thousand cubic feet per day.¹⁴

Although they are not discussed in this article, GRI has reported relatively minor volumes of coalbed methane production from several other basins for 1992:

- 1.9 billion cubic feet from the Arkoma Basin in Oklahoma
- 5.0 billion cubic feet from the Cherokee Basin of Kansas, Oklahoma, and Missouri
- 0.1 billion cubic feet from the Forest City Basin of Kansas, Iowa, Missouri, and Nebraska
- 0.02 billion cubic feet from the Green River Basin of Colorado and Wyoming
- 0.08 billion cubic feet from the Illinois Basin
- 0.03 billion cubic feet from the Pennsylvania portion of the Northern Appalachian Basin
- 0.20 billion cubic feet from the Uinta Basin of Utah.¹⁵

Conclusion

Coalbed methane production has seen a remarkable increase in the last 10 years due in great part to the financial stimulus provided by the now-expired (for new wells) Section 29 tax credit. In 1983, U.S. coalbed methane production amounted to 4.77 billion cubic feet from 160 wells, mostly located in the Black Warrior Basin of Alabama. In 1992, production had increased to 550 billion cubic feet from 5,743 wells. Most of that came from the San Juan Basin of Colorado and New Mexico, with significant additional amounts from the Black Warrior Basin. Other basins in the 1992 EIA database with smaller amounts of production include

¹⁰Gas Research Institute, "Coalbed Methane - State of the Industry," p. 10.

¹¹Virginia Division of Gas and Oil, "1992 Virginia Gas and Oil Report" (Abingdon, VA, June 1993), p. 4.

¹²Gas Research Institute, "Coalbed Methane - State of the Industry," p. 32.

¹³Gas Research Institute, "Coalbed Methane - State of the Industry," p. 33.

¹⁴Gas Research Institute, "Coalbed Methane - State of the Industry," p. 27.

¹⁵Gas Research Institute, "Coalbed Methane - State of the Industry," pp. 3-4.

Table FE3. Coalbed Methane Production from the Black Warrior Basin, Alabama, 1980-1992
(Volumes in Billion Cubic Feet)

Field	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	Total 1980-92
Big Sandy Creek														
Production	--	--	--	--	--	--	--	--	--	*	0.11	0.35	0.59	1.05
Number of Wells ..	--	--	--	--	--	--	--	--	--	5	17	31	32	
Blue Creek														
Production	--	--	--	--	--	--	--	--	--	0.60	3.96	11.63	20.26	36.44
Number of Wells ..	--	--	--	--	--	--	--	--	--	81	294	439	443	
Boone Creek														
Production	--	--	--	--	--	--	--	--	--	--	0.01	--	0.03	0.05
Number of Wells ..	--	--	--	--	--	--	--	--	--	--	5	--	4	
Brookwood														
Production	--	--	1.10	2.58	5.42	6.91	10.26	11.94	12.74	12.25	11.48	11.47	12.52	98.67
Number of Wells ..	--	--	31	57	95	128	167	192	214	233	290	323	337	
Cedar Cove														
Production	--	--	--	--	0.07	0.48	0.76	0.73	0.82	0.89	4.67	15.61	20.42	44.45
Number of Wells ..	--	--	--	--	8	15	15	17	18	24	217	408	442	
Deerlick Creek														
Production	--	--	--	--	0.06	0.43	0.74	0.83	0.88	1.54	4.62	8.26	10.73	28.10
Number of Wells ..	--	--	--	--	20	28	30	30	38	138	242	253	259	
Gurnee														
Production	--	--	--	--	--	--	--	--	--	--	0.35	0.68	0.69	1.72
Number of Wells ..	--	--	--	--	--	--	--	--	--	--	112	134	141	
Holt														
Production	--	--	0.01	0.03	0.05	0.04	0.03	0.03	--	*	0.01	2.42	2.60	5.23
Number of Wells ..	--	--	1	2	4	5	5	5	--	5	14	50	48	
Little Sandy Creek														
Production	--	--	--	--	--	--	--	--	--	0.02	0.10	0.19	0.27	0.59
Number of Wells ..	--	--	--	--	--	--	--	--	--	16	35	42	40	
Moundville														
Production	--	--	--	--	--	--	--	--	--	*	0.02	0.13	0.15	0.29
Number of Wells ..	--	--	--	--	--	--	--	--	--	3	38	103	99	
Oak Grove														
Production	--	0.03	0.49	0.78	0.75	0.69	1.24	3.42	5.41	7.97	10.90	14.18	15.62	61.47
Number of Wells ..	--	23	38	38	38	48	79	141	227	396	569	727	670	
Peterson														
Production	--	--	--	--	0.05	0.08	0.02	--	--	--	0.03	2.16	3.74	6.08
Number of Wells ..	--	--	--	--	16	22	22	--	--	--	9	56	59	
Pleasant Grove														
Production	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.01	0.26
Number of Wells ..	3	3	3	3	3	3	4	4	4	4	3	1	1	
Robinson's Bend														
Production	--	--	--	--	--	0.05	0.31	0.11	0.21	0.14	0.11	1.11	4.35	6.39
Number of Wells ..	--	--	--	--	--	3	3	3	3	2	41	389	471	
Scottsville														
Production	--	--	--	--	--	--	--	--	--	--	--	*	--	*
Number of Wells ..	--	--	--	--	--	--	--	--	--	--	--	2	--	
White Oak Creek														
Production	--	--	--	--	--	--	--	--	--	0.07	0.03	0.01	*	0.11
Number of Wells ..	--	--	--	--	--	--	--	--	--	7	7	1	1	
Wolf Creek														
Production	--	--	--	--	--	--	--	--	--	--	0.04	*	--	0.04
Number of Wells ..	--	--	--	--	--	--	--	--	--	--	5	4	--	
Basin Totals														
Production	0.01	0.05	1.62	3.41	6.43	8.69	13.38	17.08	20.08	23.49	36.46	68.24	92.01	290.95
Number of Wells ..	3	26	73	100	184	252	325	392	504	914	1,898	2,963	3,047	

* Production less than 0.005 billion cubic feet.

Source: Energy Information Administration, Office of Oil and Gas, as derived from Dwight's Energydata, Inc., well production files.

Figure FE3. Coalbed Methane Production and Producing Wells in the Black Warrior Basin, Alabama, 1980-1992

Source: Energy Information Administration, Office of Oil and Gas, as derived from Dwight's Energydata, Inc., well production files.

Table FE4. Coalbed Methane Production from Other Basins, 1980-1992
(Volumes in Billion Cubic Feet)

Basin	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	Total 1980-92
Central Appalachian Basin, Virginia														
Production	--	--	--	--	--	--	--	--	--	--	0.80	1.10	6.00	7.90
Number of Wells ..	--	--	--	--	--	--	--	--	--	--	NA	110	390	
Powder River Basin, Wyoming														
Production	--	--	--	--	--	--	--	--	--	0.17	0.31	0.55	0.58	1.61
Number of Wells ..	--	--	--	--	--	--	--	--	--	6	17	37	41	
Other Basin Totals														
Production	--	--	--	--	--	--	--	--	--	0.17	1.11	1.65	6.58	9.51
Number of Wells ..	--	--	--	--	--	--	--	--	--	6	17	147	431	

NA = Not available.

Source: Energy Information Administration, Office of Oil and Gas, as derived from Dwight's Energydata, Inc., well production files and information from the Virginia Division of Gas and Oil.

the Piceance and Raton basins in Colorado, the Virginia portion of the Central Appalachian Basin, and the Wyoming portion of the Powder River Basin.

Although the Section 29 tax credit was a very significant factor behind the rapid production growth, coalbed methane production will still increase on the order of 40 to 50 percent in 1993 because of the existence of a backlog of wells from the boom times that need to be completed and re-completed, and the fact that many wells have not yet reached their maximum production rates. This trend will not continue too long though, because the drilling of new wells is down in most basins.

In 1992, U.S. proved reserves of coalbed methane had reached 10 trillion cubic feet, most of which was located in the San Juan Basin of Colorado and New Mexico, up from 3.6 trillion cubic feet in 1989. With a total estimated recoverable resource base of 90 trillion cubic

feet in the lower 48 States and an additional 57 trillion cubic feet in Alaska, much additional coalbed methane can be expected to be produced, contingent upon the advent of generally higher natural gas prices or resumption of financial incentives. However, it is thought that most of the best acreage in the San Juan Basin, the largest producer to date, has already been developed. It will thus be necessary for relatively undeveloped basins to be approached more aggressively than in the past. These include the Arkoma, Cherokee, Forest City, Green River, Illinois, Northern Appalachian, Piceance, Raton, and Uinta basins, and the Pacific Coal region, as well as for entirely new areas to be explored and developed, such as those in Alaska. For this new exploration and development to take place, in the absence of any governmental stimulation, higher gas prices would inevitably have to exist to justify the increased exploration and completion expenses of coalbed methane wells located in new areas, as well as the new gas delivery infrastructure that would be required to bring the gas to market.

Table FE5. Coalbed Methane Production from the Raton Basin, Colorado, 1980-1992
(Volumes in Billion Cubic Feet)

Field	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	Total 1980-92
Apache Canyon														
Production	--	--	--	--	--	--	--	--	--	--	0.38	0.04	--	0.42
Number of Wells ..	--	--	--	--	--	--	--	--	--	--	18	9	--	
Three Bridges														
Production	--	--	--	--	--	--	--	0.01	*	*	--	--	--	0.01
Number of Wells ..	--	--	--	--	--	--	--	1	1	1	--	--	--	
Basin Totals														
Production	--	--	--	--	--	--	--	0.01	*	*	0.38	0.04	--	0.43
Number of Wells ..	--	--	--	--	--	--	--	1	1	1	18	9	--	

* Production less than 0.005 billion cubic feet.

Source: Energy Information Administration, Office of Oil and Gas, as derived from Dwight's Energydata, Inc., well production files.

Table FE6. Coalbed Methane Production from the Piceance Basin, Colorado, 1980-1992
(Volumes in Billion Cubic Feet)

Field	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	Total 1980-92
Bronco Flats														
Production	--	--	--	--	--	--	--	--	--	--	0.02	*	--	0.02
Number of Wells ..	--	--	--	--	--	--	--	--	--	--	1	1	--	
Divide Creek														
Production	--	--	--	--	*	0.04	0.09	0.07	0.05	0.02	0.37	0.25	0.31	1.20
Number of Wells ..	--	--	--	--	1	1	1	1	1	2	11	11	11	
Grand Valley														
Production	--	--	--	--	--	--	0.01	0.14	0.70	0.77	1.94	1.51	1.33	6.41
Number of Wells ..	--	--	--	--	--	--	2	5	7	11	26	32	31	
Parachute Creek														
Production	--	--	--	--	--	--	--	--	--	--	0.74	1.17	0.87	2.78
Number of Wells ..	--	--	--	--	--	--	--	--	--	--	18	25	27	
Pinyon Ridge														
Production	--	--	--	--	--	--	--	--	--	--	--	--	0.05	0.05
Number of Wells ..	--	--	--	--	--	--	--	--	--	--	--	--	2	
Rulison														
Production	--	--	--	--	--	--	--	--	--	0.06	0.25	0.03	0.37	0.70
Number of Wells ..	--	--	--	--	--	--	--	--	--	3	2	2	7	
Skinner Ridge														
Production	--	--	--	--	--	--	--	--	--	0.05	0.02	--	--	0.07
Number of Wells ..	--	--	--	--	--	--	--	--	--	3	3	--	--	
South Shale Ridge														
Production	--	--	--	--	--	--	--	--	--	--	0.07	0.20	0.16	0.43
Number of Wells ..	--	--	--	--	--	--	--	--	--	--	4	14	12	
White River														
Production	--	--	--	--	--	--	--	--	--	*	0.13	1.23	1.53	2.89
Number of Wells ..	--	--	--	--	--	--	--	--	--	1	3	12	14	
Basin Totals														
Production	--	--	--	--	*	0.04	0.10	0.21	0.75	0.90	3.52	4.39	4.83	14.54
Number of Wells ..	--	--	--	--	1	1	3	6	8	20	68	97	104	

* Production less than 0.005 billion cubic feet.

Source: Energy Information Administration, Office of Oil and Gas, as derived from Dwight's Energydata, Inc., well production files.

Figure FE4. Coalbed Methane Production and Producing Wells in the Piceance Basin, Colorado, 1980-1992

Source: Energy Information Administration, Office of Oil and Gas, as derived from Dwight's Energydata, Inc., well production files.

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 1,618 billion cubic feet in November 1993 (Table 1). This is 2 percent higher than in November 1992.

The total gas supply available for disposition in November 1993 was an estimated 1,834 billion cubic feet, 3 percent greater than in November 1992 (Table 2). The November 1993 total includes 315 billion cubic feet withdrawn from storage, 12 billion cubic feet of supplemental fuel supplies, and 182 billion cubic feet of imported gas.

On the disposition side, the consumption of 1,714 billion cubic feet was 18 percent greater than in October 1993 and 3 percent greater than in November 1992 (Table 2). Total disposition included 110 billion cubic feet of gas injected into underground storage reservoirs and exports of 10 billion cubic feet.

Consumption

Data for the four major end-use sectors indicate that the total amount of gas delivered to all consumers in October 1993 was 1,311 billion cubic feet, 9 percent greater than in September 1993 (Table 3). Consumption in the industrial sector decreased from 675 billion cubic feet in September 1993 to 653 billion cubic feet in October 1993, a decrease of 3 percent.

The electric utility sector consumed 233 billion cubic feet in October 1993, which is 10 percent less than in

September 1993 and a 9-percent increase from October 1992.

The residential sector consumed 252 billion cubic feet in October 1993, 5 percent greater than in October 1992. The commercial sector consumed 172 billion cubic feet in October 1993, 4 percent greater than in October 1992.

Prices

In September 1993, major interstate pipeline companies paid an average of \$2.58 per thousand cubic feet for gas purchased from domestic producers, 10 percent greater than August's \$2.35 price and a 21-percent increase from the \$2.13 paid in September 1992 (Table 4). In September 1993, these pipeline companies paid \$2.17 per thousand cubic feet for imported gas.

Distributors paid an average \$3.15 per thousand cubic feet for gas at the city gate in October 1993. This is 11 percent less than what these distributors paid in September 1993 and 10 percent less than they paid in October 1992. Residential consumers paid \$6.75 per thousand cubic feet in October 1993, 4 percent higher than what they paid in October 1992. Commercial consumers paid \$5.12 per thousand cubic feet in October 1993, 3 percent less than September 1993 and 4 percent less than what they paid in October 1992.

Industrial consumers paid \$2.88 per thousand cubic feet in October 1993, a 5-percent decrease from the September 1993 price of \$3.03 and 10 percent less than in October 1992. Electric utilities paid an average of \$2.69 per thousand cubic feet in September 1993, 3 percent greater than the \$2.60 per thousand cubic feet paid in August 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 ^a	Vented and Flared	Marketed Production (Wet)	Extraction Loss ^b	Total Dry Gas Production ^c
1987 Total	20,140	2,208	376	124	17,433	812	16,621
1988 Total	20,999	2,478	460	143	17,918	816	17,103
1989 Total	21,074	2,475	362	142	18,095	785	17,311
1990 Total	21,523	2,489	289	150	18,594	784	17,810
1991							
January	1,958	235	24	13	1,686	76	1,610
February	1,738	221	22	12	1,483	67	1,417
March	1,889	245	24	13	1,607	72	1,535
April	1,800	234	21	14	1,531	69	1,462
May	1,786	227	23	15	1,522	69	1,453
June	1,713	226	22	14	1,451	65	1,385
July	1,740	236	23	16	1,465	66	1,399
August	1,741	231	23	15	1,471	66	1,405
September	1,716	214	24	14	1,464	66	1,398
October	1,864	245	23	15	1,580	71	1,509
November	1,864	226	23	15	1,600	72	1,528
December	1,942	231	24	15	1,673	75	1,597
Total	21,750	2,772	276	170	18,532	835	17,698
1992							
January	1,952	251	24	14	1,663	77	1,586
February	1,748	247	22	13	1,467	68	1,398
March	1,837	254	22	14	1,547	72	1,475
April	1,801	246	24	13	1,518	71	1,447
May	1,842	248	24	12	1,557	73	1,485
June	1,800	246	23	15	1,515	71	1,444
July	1,842	238	24	16	1,564	73	1,491
August	1,799	237	24	15	1,522	71	1,451
September	1,786	242	21	15	1,508	70	1,437
October	1,899	253	25	13	1,608	75	1,533
November	1,871	246	23	14	1,588	74	1,514
December	1,956	263	24	14	1,656	77	1,579
Total	22,132	2,973	280	168	18,712	872	17,840
1993							
January	1,991	270	22	15	1,684	78	1,606
February	^R 1,773	246	21	14	^R 1,492	70	^R 1,423
March	1,940	266	21	14	^R 1,639	76	1,563
April	1,885	256	22	16	1,592	74	1,518
May	1,901	261	21	15	1,605	75	1,530
June	1,835	242	21	15	1,557	73	1,484
July	^R 1,867	248	22	15	^R 1,583	74	1,509
August	^R 1,865	^R 248	^R 22	15	^R 1,580	74	^R 1,507
September	^R 1,847	^R 255	21	14	^R 1,557	^R 73	^R 1,485
October	^E 1,933	^E 257	^E 22	^E 15	^E 1,638	^E 76	^E 1,562
November	^E 1,913	^E 257	^E 22	^E 15	^E 1,618	^E 75	^E 1,543
1993 YTD	20,750	2,807	237	161	17,546	818	16,728
1992 YTD	20,176	2,710	257	154	17,056	795	16,261
1991 YTD	19,808	2,541	252	155	16,860	759	16,100

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

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

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

^E = Estimated Data.

^R = Revised Data.

Notes: Data for 1987 through 1992 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 1992*, Table 7 and EIA estimates, January 1993 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 ^d	Disposition		
	Total Dry Gas Production	Withdrawals from Storage ^a	Supplemental Gaseous Fuels ^b	Imports	Balancing Item ^c		Additions to Storage ^a	Exports	Consumption ^a
1987 Total	16,621	1,905	101	993	-444	19,176	1,911	54	17,211
1988 Total	17,103	2,270	101	1,294	-453	20,315	2,211	74	18,030
1989 Total	17,311	2,854	107	1,382	-218	21,435	2,528	107	18,801
1990 Total	17,810	1,986	123	1,532	-149	21,302	2,499	86	18,716
1991									
January	1,610	682	12	163	-44	2,423	115	10	2,299
February	1,417	409	10	138	62	2,035	112	11	1,912
March	1,535	297	11	151	-15	1,979	129	10	1,840
April	1,462	104	9	144	65	1,785	234	9	1,542
May	1,453	58	9	141	13	1,675	331	8	1,337
June	1,385	42	8	133	-37	1,531	326	7	1,199
July	1,399	75	9	135	-28	1,590	299	8	1,283
August	1,405	82	9	127	-48	1,574	290	10	1,274
September	1,398	78	8	134	-72	1,545	304	11	1,231
October	1,509	103	10	157	-88	1,691	258	14	1,419
November	1,528	360	9	169	-209	1,856	150	15	1,691
December	1,597	461	11	181	-98	2,151	125	18	2,009
Total	17,698	2,752	113	1,773	-500	21,836	2,672	129	19,035
1992									
January	1,586	624	12	165	-71	2,315	60	16	2,239
February	1,398	463	11	175	42	2,089	45	14	2,031
March	1,475	397	11	180	-42	2,022	74	23	1,926
April	1,447	142	10	176	89	1,864	161	18	1,685
May	1,485	44	9	174	68	1,780	344	19	1,418
June	1,444	35	8	162	16	1,666	384	18	1,264
July	1,491	42	8	167	-8	1,700	373	16	1,311
August	1,451	46	8	175	-19	1,662	380	18	1,264
September	1,437	40	8	166	-24	1,629	362	18	1,249
October	1,533	70	10	176	-130	1,659	271	19	1,368
November	1,514	282	11	210	-239	1,778	88	19	1,672
December	1,579	587	12	209	-191	2,195	58	19	2,119
Total	17,840	2,772	118	2,138	-508	22,360	2,599	216	19,544
1993									
January	1,606	605	13	198	-58	2,364	50	18	2,297
February	^a 1,423	578	12	183	^a 15	^a 2,210	27	13	^a 2,171
March	1,563	381	12	199	^a 75	^a 2,230	78	17	^a 2,136
April	1,518	111	10	185	79	1,904	219	12	1,673
May	1,530	25	8	160	28	1,751	447	12	1,291
June	1,484	43	10	178	^a -10	^a 1,706	416	11	^a 1,280
July	1,509	48	9	190	^a -1	1,755	398	14	1,343
August	^a 1,507	98	9	184	^a -23	1,774	419	11	1,344
September	^a 1,485	25	9	188	^a 18	^a 1,725	378	^a 11	^a 1,336
October	^a 1,562	97	^a 10	^a 183	^a -139	^a 1,714	247	^a 10	^a 1,457
November	^a 1,543	315	^a 12	^a 182	-217	1,834	110	^a 10	^a 1,714
1993 YTD	16,728	2,327	114	2,031	-233	20,967	2,787	137	18,043
1992 YTD	16,261	2,186	106	1,928	-316	20,165	2,541	198	17,426
1991 YTD	16,100	2,291	102	1,593	-401	19,685	2,547	111	17,026

^a Monthly and annual data for 1987 through 1992 include underground storage and liquefied natural gas storage. Data for January 1993 forward include underground storage only. See Appendix A, Explanatory Note 7 for discussion of computation procedures.

^b 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.

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

^d "Total" data for 1987 through 1992 do not equal equivalent data in Table 1 of the *Natural Gas Annual 1992* due to the exclusion of intransit receipts and deliveries in the NGM.

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

^f = Estimated Data.

^g = Revised Data.

Notes: Data for 1987 through 1992 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 1992*, 1987 through 1992; IOGCC, MMS reporting, and EIA estimates, January 1993 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 1992*, 1987 through 1992; Form EIA-191, January 1993 through current month. *Supplemental Gaseous Fuels: EIA *Natural Gas Annual 1992* 1987 through 1992; and EIA computations, January 1993 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 1992; and EIA estimates, January 1993 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 1992*, 1987 through 1992; and EIA computations, January 1993 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 ^a	Pipeline Fuel ^b	Delivered to Consumers					Total Consumption
			Residential	Commercial	Industrial	Electric Utilities	Total	
1987 Total	1,149	519	4,315	2,430	5,953	2,844	15,542	17,211
1988 Total	1,096	614	4,630	2,670	6,383	2,636	16,320	18,030
1989 Total	1,070	629	4,781	2,718	6,816	2,787	17,102	18,801
1990 Total	1,236	660	4,391	2,623	7,018	2,787	16,820	18,716
1991								
January	102	74	844	434	672	173	2,123	2,299
February	90	61	664	359	591	146	1,761	1,912
March	98	58	573	310	607	193	1,683	1,840
April	93	49	373	225	586	216	1,400	1,542
May	93	42	229	154	571	249	1,202	1,337
June	89	37	148	119	546	260	1,073	1,199
July	90	40	126	125	572	330	1,153	1,283
August	90	40	118	113	586	328	1,144	1,274
September	89	38	138	121	582	263	1,103	1,231
October	97	44	225	163	626	263	1,278	1,419
November	97	54	459	256	627	198	1,540	1,691
December	101	64	658	350	665	170	1,843	2,009
Total	1,129	601	4,556	2,729	7,231	2,789	17,305	19,035
1992								
January	104	68	786	410	701	169	2,067	2,239
February	92	62	696	366	644	170	1,876	2,031
March	97	58	574	315	674	208	1,770	1,926
April	95	51	431	250	628	229	1,539	1,685
May	97	42	251	170	620	236	1,278	1,418
June	95	37	162	125	578	266	1,132	1,264
July	98	39	132	122	587	334	1,175	1,311
August	95	37	126	121	582	303	1,131	1,264
September	94	37	137	121	586	274	1,117	1,249
October	101	41	241	166	608	213	1,227	1,368
November	99	50	437	256	641	189	1,523	1,672
December	104	64	717	381	677	176	1,951	2,119
Total	1,171	588	4,690	2,803	7,527	2,766	17,786	19,544
1993								
January	105	73	834	421	699	164	2,119	2,297
February	^R 93	^R 65	770	408	672	162	2,012	^R 2,171
March	103	^R 64	703	374	699	194	1,969	^R 2,136
April	100	53	450	257	639	174	1,521	1,673
May	100	41	234	156	593	167	1,150	1,291
June	97	38	164	127	^R 598	255	^R 1,144	^R 1,280
July	99	40	130	123	618	333	1,204	1,343
August	99	40	120	115	^R 613	357	^R 1,205	1,344
September	^R 97	40	142	123	675	259	1,198	^R 1,336
October	103	44	252	172	653	233	1,311	1,457
1993 YTD	997	499	3,798	2,277	6,460	2,298	14,833	16,329
1992 YTD	968	473	3,536	2,166	6,209	2,401	14,312	15,753
1991 YTD	931	484	3,438	2,123	5,939	2,421	13,921	15,336

^a Plant fuel data are only collected on an annual basis and monthly lease fuel data are only collected annually. Lease and plant fuel estimates have been between 6 and 7 percent of marketed production annually. Monthly lease and plant fuel use is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next twelve months.

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

^R = Revised Data.

Notes: Data for 1987 through 1992 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 1992*, 1987 through 1992; and Form EIA-857 and computations January 1993 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 ^a	Major Interstate Pipeline Companies		City Gate	Delivered to Consumers			
		Imports ^b	Purchased from Producers ^b		Residential	Commercial	Industrial	Electric Utilities ^c
1987 Annual Average	1.67	2.17	2.10	2.87	5.54	4.77	2.94	2.32
1988 Annual Average	1.69	2.00	2.13	2.92	5.47	4.63	2.95	2.33
1989 Annual Average	1.69	2.04	2.18	3.01	5.64	4.74	2.96	2.43
1990 Annual Average	1.71	2.03	2.19	3.03	5.80	4.83	2.93	^R 2.38
1991								
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	6.97	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
Annual Average	1.64	2.02	1.92	2.90	5.82	4.81	2.69	2.18
1992								
January	1.74	2.20	2.10	2.90	5.53	4.85	3.04	2.49
February	1.26	1.98	1.70	2.70	5.54	5.03	2.78	2.03
March	1.35	1.45	1.90	2.61	5.50	4.77	2.58	1.99
April	1.42	2.01	1.73	2.74	5.62	4.77	2.54	2.07
May	1.51	1.79	1.99	2.90	6.15	4.59	2.44	2.11
June	1.62	2.03	2.16	3.00	6.34	4.72	2.53	2.18
July	1.55	1.89	1.86	3.01	7.27	4.64	2.54	2.13
August	1.84	1.85	2.14	3.18	7.45	4.73	2.71	2.42
September	1.92	2.05	2.13	3.23	7.15	4.69	2.82	2.51
October	2.38	2.13	2.69	3.50	6.52	4.90	3.21	3.04
November	2.13	2.32	2.37	3.33	6.02	5.12	3.26	2.87
December	2.07	1.92	2.40	3.17	5.74	5.11	3.38	2.81
Annual Average	1.74	1.97	2.10	3.01	5.89	4.88	2.84	2.36
1993								
January	1.96	2.02	2.17	3.11	5.71	5.18	3.26	2.70
February	1.72	1.91	1.94	2.94	5.71	5.08	3.12	2.55
March	1.89	1.78	2.20	3.06	5.66	5.06	3.08	2.61
April	2.05	2.15	2.34	3.24	5.99	5.13	3.13	2.75
May	2.30	2.13	2.81	3.58	6.72	5.21	3.24	2.90
June	1.87	1.95	2.03	3.44	7.32	5.31	2.95	2.47
July	1.91	1.78	2.02	3.34	7.83	5.03	2.71	2.46
August	2.00	2.02	2.35	3.35	8.10	5.26	2.86	2.60
September	^R 2.11	2.17	2.58	3.52	7.74	^R 5.27	3.03	2.69
October	^E 1.99	NA	NA	3.15	6.75	5.12	2.88	NA
1993 YTD	1.98	1.94	2.04	3.21	6.16	5.14	3.04	2.61
1992 YTD	1.66	1.94	2.04	2.94	5.90	4.81	2.73	2.22
1991 YTD	1.57	1.99	1.89	2.88	5.92	4.82	2.63	2.10

^a See Appendix A, Explanatory Note 8 for discussion of wellhead price.

^b See Appendix A, Explanatory Note 9 for discussion of major interstate pipeline company data.

^c 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 1992 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 1992*, 1987 through 1992; and EIA estimates, January 1993 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 1992*. 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		
1987 Total	992,532	1.95	0	—	992,532	1.95
1988 Total	1,276,322	1.83	17,490	2.71	1,293,812	1.84
1989 Total	1,339,357	1.81	42,163	2.22	1,381,520	1.82
1990 Total	1,448,065	1.91	84,193	2.47	1,532,259	1.94
1991						
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
Total	1,709,716	1.81	63,596	2.36	1,773,313	1.83
1992						
January	157,026	1.95	7,610	2.49	164,636	1.98
February	170,167	1.64	5,076	2.91	175,243	1.68
March	177,978	1.63	2,503	3.32	180,482	1.65
April	173,615	1.62	2,531	2.12	176,146	1.63
May	174,312	1.66	0	—	174,312	1.66
June	159,743	1.77	2,505	2.09	162,249	1.77
July	167,216	1.70	0	—	167,216	1.70
August	172,240	1.81	2,492	3.15	174,733	1.83
September	163,584	1.96	2,533	1.83	166,117	1.96
October	173,904	2.21	2,563	3.19	176,466	2.22
November	202,846	1.94	7,633	2.57	210,479	1.96
December	201,756	2.13	7,670	2.17	209,426	2.13
Total	2,094,387	1.84	43,116	2.54	2,137,504	1.85
1993						
January	192,899	2.06	5,141	2.59	198,039	2.07
February	175,444	1.95	7,654	2.93	183,097	1.99
March	193,830	1.98	5,146	2.24	198,976	1.98
April	177,552	2.04	7,720	2.12	185,272	2.04
May	154,640	2.08	5,236	2.01	159,876	2.08
June	170,870	2.04	7,563	1.94	178,433	2.03
July	182,550	NA	7,642	NA	190,192	NA
August	179,384	NA	5,091	NA	184,475	NA
September	^R 177,786	NA	10,252	NA	^R 188,038	NA
October	^{RE} 178,017	NA	5,075	NA	^{RE} 183,093	NA
November	^E 174,105	NA	7,593	NA	^E 181,698	NA
1993 YTD	1,957,077	NA	74,112	NA	2,031,189	NA
1992 YTD	1,892,631	1.81	35,447	2.62	1,928,078	1.82
1991 YTD	1,539,231	1.78	53,497	2.30	1,592,729	1.80

NA = Not Available.
— = Not Applicable.
^R = Revised Data.
^E = Estimated Data.
^{RE} = Revised Estimated data.

Source: 1987-1992: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1993 through the current month: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. 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		
1987 Total	3,297	1.81	2,125	3.18	48,599	3.15	54,020	3.07
1988 Total	19,738	2.02	2,327	3.21	51,573	2.99	73,638	2.74
1989 Total	38,443	2.00	17,004	2.14	51,424	3.01	106,871	2.51
1990 Total	17,359	2.70	15,659	1.88	52,546	3.59	85,565	3.10
1991								
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
Total	14,791	1.91	60,448	1.76	54,005	3.71	129,244	2.59
1992								
January	2,377	1.87	9,687	1.83	4,368	3.58	16,432	2.30
February	3,654	1.43	5,963	1.24	4,369	3.44	13,986	1.98
March	11,437	1.95	6,707	1.37	4,367	3.27	22,511	2.03
April	5,980	1.35	7,371	1.52	4,403	3.21	17,754	1.88
May	5,919	1.56	7,285	1.69	5,827	3.23	19,030	2.12
June	6,172	1.81	7,262	1.78	4,378	3.31	17,812	2.17
July	5,230	1.67	6,258	1.68	4,379	3.44	15,868	2.16
August	5,074	1.84	8,778	1.97	4,377	3.56	18,229	2.31
September	5,547	1.91	8,181	2.00	4,408	3.61	18,136	2.36
October	6,290	2.19	10,063	2.66	2,920	3.59	19,272	2.65
November	3,487	2.04	10,674	2.26	4,366	3.56	18,527	2.52
December	6,611	2.18	7,743	2.18	4,370	3.52	18,724	2.49
Total	67,777	1.83	95,973	1.90	52,532	3.43	216,282	2.25
1993								
January	5,577	2.20	7,833	2.03	4,367	3.41	17,777	2.42
February	6,453	2.06	2,121	1.77	4,355	3.29	12,929	2.42
March	7,583	2.09	3,199	1.96	5,812	3.22	16,594	2.43
April	4,527	1.99	2,875	2.13	4,373	3.21	11,775	2.48
May	3,941	1.88	3,453	2.44	4,381	3.29	11,775	2.57
June	3,647	1.88	4,050	1.84	2,950	3.22	10,647	2.24
July	E 5,000	NA	3,805	NA	5,162	NA	E 13,967	NA
August	E 4,000	NA	2,582	NA	4,761	NA	E 11,343	NA
September	E 3,500	NA	2,227	NA	5,136	NA	E 10,863	NA
October	E 4,000	NA	E 2,500	NA	3,305	NA	E 9,805	NA
November	E 4,000	NA	E 1,000	NA	4,757	NA	E 9,757	NA
1993 YTD	52,228	NA	35,645	NA	49,360	NA	137,233	NA
1992 YTD	61,167	1.80	88,230	1.88	48,161	3.43	197,558	2.23
1991 YTD	12,162	1.89	50,862	1.69	48,185	3.71	111,209	2.59

NA = Not Available.

R = Revised Data.

E = Estimated Data.

RE = Revised Estimated Data.

Source: 1987-1992: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1993 through the current month: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. 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 ^b	Alaska	California	Colorado	Florida	Kansas
1987 Total	117,241	359,837	424,621	164,557	8,281	472,752
1988 Total	129,524	378,638	399,663	191,544	7,484	592,845
1989 Total	128,411	393,729	362,860	216,737	7,534	601,196
1990 Total	135,276	402,907	362,748	242,997	6,483	573,603
1991						
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	50,732
June	13,174	33,065	29,259	23,034	94	46,685
July	14,400	33,840	32,169	23,088	381	44,913
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
Total	170,847	437,822	378,384	285,961	4,884	628,459
1992						
January	28,638	40,789	32,882	27,414	570	64,920
February	28,093	37,311	30,127	25,451	536	56,375
March	28,699	38,433	32,006	24,545	492	53,499
April	28,690	37,128	31,789	25,138	488	47,445
May	28,920	37,014	32,353	26,318	520	50,271
June	29,312	34,222	29,550	26,270	572	48,589
July	30,718	35,020	30,949	25,501	458	49,051
August	29,338	32,832	30,046	27,256	574	48,567
September	29,402	32,233	29,211	26,061	564	47,818
October	31,435	39,237	30,386	27,474	654	56,304
November	30,470	38,453	28,070	28,461	593	64,316
December	31,386	40,924	28,262	33,152	635	70,853
Total	355,099	443,597	365,632	323,041	6,657	658,007
1993						
January	24,591	41,375	26,956	28,356	637	64,279
February	22,157	35,689	24,024	^R 28,381	573	57,258
March	22,784	41,674	^R 27,429	^E 29,757	603	61,084
April	22,235	39,226	25,320	^E 29,907	601	53,431
May	23,312	35,702	25,294	^E 29,932	685	54,054
June	^R 22,460	^E 35,118	27,398	^E 29,421	577	51,743
July	^R 24,424	^E 36,023	26,579	^E 29,521	648	51,429
August	^R 25,064	^E 35,180	^R 25,258	^E 30,604	632	^R 49,692
September	^E 23,657	^E 37,453	^E 25,487	^E 29,574	587	46,323
1993 YTD	210,684	337,440	233,745	265,453	5,543	489,293
1992 YTD	261,809	324,982	278,914	233,954	4,775	466,534
1991 YTD	119,887	324,375	275,810	206,826	3,098	456,890

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
1987 Total	5,122,509	146,996	139,727	46,456	823,773	62,258
1988 Total	5,180,267	146,145	124,053	51,654	791,819	57,747
1989 Total	5,078,125	155,988	102,645	51,307	854,615	51,174
1990 Total	5,241,989	172,151	94,616	50,429	965,104	52,169
1991						
January	468,583	15,493	9,113	5,235	96,319	4,640
February	408,977	13,850	7,801	4,433	79,943	4,162
March	440,394	17,320	9,021	4,779	89,186	4,588
April	421,649	18,019	9,346	4,786	86,221	4,351
May	415,253	19,521	9,745	4,516	86,029	4,419
June	388,442	15,994	9,499	3,467	81,862	4,481
July	387,063	16,468	9,467	3,501	77,279	4,787
August	392,982	15,697	8,866	4,081	83,204	4,625
September	394,190	16,040	8,183	3,940	83,766	4,054
October	430,728	15,055	8,615	4,393	91,254	4,253
November	430,550	15,344	9,217	4,166	90,101	4,482
December	455,550	16,948	9,359	4,702	93,120	4,638
Total	5,034,361	195,749	108,031	51,999	1,038,284	53,479
1992						
January	447,881	14,061	8,666	5,025	96,194	4,821
February	397,242	12,580	7,632	4,831	86,756	4,469
March	415,797	16,011	7,761	5,256	94,373	4,762
April	406,614	15,126	7,549	4,583	102,157	4,389
May	425,880	13,012	7,602	4,429	108,294	4,486
June	411,275	20,668	7,447	3,645	101,770	4,436
July	422,105	16,208	7,533	3,846	111,611	4,593
August	377,693	17,200	7,553	3,746	114,145	4,609
September	375,997	19,210	7,039	3,782	109,064	4,428
October	409,724	17,614	7,618	4,503	111,646	4,772
November	401,240	14,277	7,694	5,083	114,329	4,490
December	423,050	18,848	7,801	5,138	118,523	4,628
Total	4,914,300	194,815	91,697	53,867	1,268,863	54,883
1993						
January	449,393	18,622	7,657	5,205	116,663	4,484
February	400,231	9,728	7,249	4,729	108,426	3,923
March	425,024	24,098	7,166	3,054	118,479	4,702
April	415,982	19,700	7,047	1,304	113,865	4,664
May	435,973	14,321	7,025	4,617	119,167	4,856
June	415,775	17,810	6,549	3,984	112,820	4,610
July	433,884	20,187	6,969	3,912	114,282	4,732
August	424,467	16,473	6,388	3,376	119,317	4,751
September	425,714	18,394	6,474	4,021	115,816	4,524
1993 YTD	3,826,443	159,333	62,524	39,202	1,038,835	41,246
1992 YTD	3,680,286	144,076	68,784	39,143	924,365	40,993
1991 YTD	3,717,533	148,402	80,840	38,738	763,810	40,106

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 ^a States	U.S. Total
1987 Total	2,073,461	6,126,315	87,158	497,980	758,979	17,432,901
1988 Total	2,167,050	6,286,029	101,372	509,058	803,573	17,918,465
1989 Total	2,237,037	6,241,425	120,089	665,699	826,576	18,095,147
1990 Total	2,258,471	6,343,146	145,875	735,728	810,100	18,593,792
1991						
January	194,179	567,569	13,995	68,011	74,819	1,685,877
February	176,577	496,899	11,573	60,587	65,447	1,483,427
March	189,362	533,539	12,789	70,023	69,790	1,606,874
April	182,592	506,976	11,468	66,126	64,125	1,531,264
May	181,866	512,679	11,206	62,086	63,317	1,521,809
June	168,292	500,166	10,567	61,837	60,626	1,450,544
July	176,757	505,136	11,021	62,410	62,280	1,464,959
August	171,545	503,988	12,009	65,429	61,788	1,470,857
September	167,685	500,654	11,131	62,169	60,181	1,463,974
October	180,504	539,982	13,869	63,623	66,247	1,580,397
November	179,976	544,444	14,091	68,055	68,370	1,599,756
December	184,516	568,621	11,098	66,172	71,338	1,672,701
Total	2,153,852	6,280,654	144,817	776,528	788,328	18,532,439
1992						
January	184,091	551,786	11,797	74,325	69,450	1,663,111
February	166,004	483,162	11,312	50,091	64,761	1,466,733
March	165,802	506,941	12,727	71,930	68,252	1,547,288
April	168,030	493,746	11,852	67,036	66,346	1,518,106
May	165,080	510,273	13,378	62,977	66,344	1,557,151
June	166,336	495,691	13,310	58,427	63,463	1,514,984
July	160,800	508,414	13,930	77,202	65,761	1,563,702
August	159,180	515,119	14,425	74,171	65,848	1,522,282
September	160,231	509,836	15,250	73,315	64,218	1,507,660
October	170,825	531,794	17,177	77,161	69,246	1,607,569
November	172,795	513,103	16,718	78,509	68,952	1,587,552
December	178,201	525,996	19,417	77,434	71,622	1,655,671
Total	2,017,356	6,145,862	171,293	842,576	804,264	18,711,808
1993						
January	^E 181,647	553,029	19,774	69,028	^E 72,658	1,684,354
February	^E 162,327	490,478	19,304	52,424	^E 65,382	^R 1,492,283
March	^E 167,673	554,949	22,763	57,523	^E 68,714	^R 1,639,476
April	^E 165,335	538,617	18,986	67,436	^E 65,504	1,592,160
May	^E 165,190	546,915	17,584	55,759	^E 64,466	1,604,852
June	^E 165,784	521,387	18,487	59,105	^E 63,598	^R 1,556,626
July	^E 164,697	528,063	18,152	55,843	^E 63,481	^R 1,582,826
August	^E 170,885	533,433	15,513	55,005	^E 64,239	^R 1,580,277
September	^E 169,526	518,257	15,130	54,954	^E 61,228	1,557,119
1993 YTD	1,513,064	4,785,128	165,693	527,077	589,270	14,289,973
1992 YTD	1,495,535	4,574,969	117,981	609,473	594,444	13,861,017
1991 YTD	1,608,855	4,627,606	105,759	578,678	582,373	13,679,585

^a Includes Arizona, Arkansas, Illinois, Indiana, Kentucky, Maryland, Missouri, Nebraska, New York, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, Virginia, and West Virginia.

^b The 1992 monthly and annual values for Alabama include Federal Offshore production. Federal Offshore production for 1993 is included in Louisiana marketed production.

^E = Estimated Data.

^R = Revised 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 1992*, 1987 through 1992. •IOGCC, MMS reports, and EIA computations, January 1993 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 ^a (Bcf)	Gas Operating Revenues	Gas Operating Expenses				Total Operating Income	Total Income Before Interest Charges and Extraordinary Expenses	Net Income ^c
			Operation and Maintenance	Depreciation, Depletion, and Amortization	Taxes ^b	Total Gas Operating Expenses			
1987 Total	6,758	27,469	21,871	1,520	552	25,151	2,333	3,493	1,414
1988 Total	6,414	26,637	22,640	1,579	582	24,940	1,803	3,350	1,366
1989 Total	5,652	26,703	21,522	1,451	596	24,168	2,575	4,595	2,311
1990 Total	4,877	24,275	18,980	1,483	648	21,686	2,590	4,227	2,319
1991									
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
Total	4,052	21,649	17,996	1,311	627	20,158	1,492	1,857	179
1992									
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	232
June	224	1,438	1,056	113	52	1,252	187	311	171
July	239	1,442	1,040	125	56	1,259	183	301	147
August	^R 264	1,564	1,157	131	54	1,412	152	268	124
September	^R 247	1,957	1,552	-24	49	^R 1,625	^R 331	^R 349	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
Total	^R 3,693	21,583	16,083	1,133	665	^R 18,932	^R 2,651	^R 4,029	2,395
1993									
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
June	219	1,487	1,062	123	52	1,310	177	275	144
July	225	1,451	980	116	51	1,212	239	319	196
August	225	1,468	1,095	100	49	1,291	177	231	106
September	223	1,498	1,071	84	47	1,287	211	376	169

^a Includes sales for resale and sales to ultimate consumers.

^b Excludes income taxes.

^c 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*	Volume	Price*	Volume	Price*	Volume	Price*	Volume	Price*	
1987 Total	442,041	3.07	301,567	5.06	743,608	3.91	5,213,629	3.37	5,957,237	3.44	47
1988 Total	294,821	2.65	440,683	4.99	735,504	4.05	4,866,193	3.47	5,601,697	3.55	46
1989 Total	392,843	2.58	465,592	5.02	858,435	3.91	4,324,349	3.51	5,182,784	3.58	50
1990 Total	229,662	2.80	374,166	5.18	603,828	4.28	3,849,486	3.40	4,453,314	3.52	51
1991											
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
Total	157,212	2.48	364,078	4.77	521,290	4.08	3,309,713	3.51	3,831,003	3.59	50
1992											
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	14,610	1.82	16,500	5.12	31,110	3.57	224,480	3.27	255,590	3.31	50
June	9,991	2.79	13,422	5.45	23,413	4.31	179,954	3.58	203,367	3.66	50
July	14,592	2.04	14,071	5.25	28,663	3.62	188,636	3.45	217,299	3.47	50
August	R 16,179	2.30	13,925	5.28	R 30,104	3.68	213,550	3.51	R 243,654	3.53	50
September	R 12,858	2.56	R 13,916	5.36	R 26,774	4.01	R 199,862	R 3.87	R 226,636	R 3.89	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
Total	R 154,791	2.42	R 352,684	4.85	R 507,475	4.11	R 3,010,432	R 3.42	R 3,517,907	R 3.52	50
1993											
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
June	6,361	2.38	1,788	4.77	8,149	2.90	199,331	2.82	207,480	2.82	50
July	9,047	2.35	2,212	4.68	11,259	2.81	204,926	2.88	216,185	2.87	50
August	13,732	2.62	2,552	4.49	16,284	2.91	201,552	3.00	217,836	2.99	50
September	4,324	2.75	1,812	5.39	5,936	3.47	209,123	2.88	215,059	2.90	50

* 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, September 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	--	0	--	0	--
ANR	0	--	0	--	0	--	15,691	3.19	15,691	3.19
Arkla Energy Resources Co.	0	--	0	--	0	--	2,799	1.87	2,799	1.88
Bear Creek Storage	0	--	0	--	0	--	0	--	0	--
Colorado Interstate	88	2.61	0	--	88	2.61	24,890	1.85	24,978	1.86
Columbia Gas Transm.	0	--	0	--	0	--	6,766	3.30	6,766	3.30
Columbia Gulf	0	--	2	4.00	2	4.00	0	--	2	4.00
Consolidated Gas	0	--	0	--	0	--	13,571	4.39	13,571	4.39
East Tennessee	300	3.78	0	--	300	3.78	1,665	4.83	1,965	4.87
El Paso	1,782	2.04	0	--	1,782	2.04	9,178	2.00	10,958	2.01
Equitrans	0	--	0	--	0	--	0	--	0	--
Florida Gas	394	4.78	0	--	394	4.78	487	4.75	881	4.77
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.	14	3.50	1,584	5.45	1,598	5.43	588	4.21	2,186	5.10
Korn River Gas Trans.	0	--	0	--	0	--	0	--	0	--
Michigan Gas Storage	0	--	0	--	0	--	24	2.38	24	2.38
Midwestern	0	--	0	--	0	--	0	--	0	--
Mississippi River	63	3.98	0	--	63	3.98	2,040	2.70	2,103	2.74
Mojave Pipeline Co.	0	--	0	--	0	--	0	--	0	--
Mountain Fuel Res.	0	--	0	--	0	--	0	--	0	--
National Fuel	0	--	0	--	0	--	0	--	0	--
Natural Gas Pipeline	1	3.00	0	--	1	3.00	13,492	4.43	13,493	4.43
Northern Border	0	--	0	--	0	--	0	--	0	--
Northern Natural	0	--	1	2.00	1	2.00	7,597	3.57	7,598	3.57
Northwest Alaskan	0	--	0	--	0	--	28,682	1.87	28,682	1.87
Northwest Pipeline	0	--	0	--	0	--	2,302	2.22	2,302	2.22
Overthrust Pipeline	0	--	0	--	0	--	0	--	0	--
Pacific Gas Transm.	0	--	0	--	0	--	23,682	2.38	23,682	2.38
Pacific Interstate	0	--	0	--	0	--	6,263	2.79	6,263	2.79
Panhandle Eastern	0	--	0	--	0	--	0	--	0	--
Sabine Pipeline Co.	0	--	0	--	0	--	0	--	0	--
Sea Robin Pipeline	0	--	0	--	0	--	0	--	0	--
Southern Natural	8	3.88	0	--	8	3.88	1,882	3.15	1,890	3.15
Stingray Pipeline	0	--	0	--	0	--	0	--	0	--
Tenneco, Inc.	0	--	0	--	0	--	21,824	3.83	21,824	3.83
Texas Eastern	0	--	0	--	0	--	2,117	2.94	2,117	2.94
Texas Gas Transm.	0	--	0	--	0	--	2,520	2.79	2,520	2.79
Trailblazer Pipeline	0	--	0	--	0	--	0	--	0	--
Transcontinental	0	--	0	--	0	--	16,461	3.64	16,461	3.66
Transwestern Pipeline	308	1.94	4	2.25	312	1.95	0	--	312	1.95
Trunkline Gas Co.	4	2.75	21	2.33	25	2.40	9,847	2.02	9,872	2.02
U-T Offshore	0	--	0	--	0	--	0	--	0	--
United Gas Pipeline	1,309	2.79	0	--	1,309	2.79	977	2.99	2,286	2.87
Valero Interstate Transm.	0	--	0	--	0	--	1,219	3.17	1,219	3.17
Viking Gas Company	0	--	0	--	0	--	0	--	0	--
Williams Natural	53	3.49	0	--	53	3.49	0	--	53	3.49
Williston Basin	0	--	0	--	0	--	497	2.63	497	2.63
Wyoming Interstate	0	--	0	--	0	--	0	--	0	--
Total/Average Price*	4,324	2.75	1,612	5.39	5,936	3.47	217,059	2.90	222,995	2.92
Sales to Other Major Companies	--	--	--	--	--	--	7,936	3.56	7,936	3.56
Sales Excluding Sales to Major Companies	--	--	--	--	--	--	209,123	2.88	215,059	2.90

* 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 ^a	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
1987 Total	13,479,989	152,039	22,905	4,848,577	124,572	759,345	400,134	6,132,628
1988 Total	15,950,507	139,621	23,960	4,516,120	66,879	962,383	374,983	5,920,365
1989 Total	18,696,398	108,036	24,609	3,532,568	74,058	903,488	411,997	4,922,131
1990 Total	21,681,372	93,386	24,163	3,601,690	72,986	965,859	355,273	4,995,808
1991								
January	2,098,858	6,065	1,588	372,884	7,194	79,076	40,958	500,112
February	1,839,900	6,242	2,157	262,740	5,669	66,257	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	71,699	18,976	306,119
November	2,103,022	6,378	1,706	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
Total	22,031,321	73,065	23,376	2,631,069	72,118	806,558	274,168	3,783,913
1992								
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	2,206	164,991	5,813	59,849	21,858	252,511
May	1,979,257	6,969	2,304	170,667	5,935	67,619	19,859	264,100
June	1,912,627	5,243	2,076	155,643	4,803	56,782	17,999	235,227
July	1,925,300	5,675	1,989	156,145	5,106	65,557	23,342	260,150
August	1,868,726	6,146	2,045	166,766	5,429	72,672	18,715	263,582
September	^R 1,807,628	^R 6,260	^R 2,220	175,857	5,268	74,569	6,869	262,563
October	1,985,790	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	324,184
December	2,194,128	6,604	2,633	247,161	10,494	79,706	45,325	382,686
Total	^R 24,598,101	^R 75,428	^R 25,107	2,253,492	82,751	816,977	282,697	3,435,917
1993								
January	2,334,905	6,430	2,335	203,273	5,475	76,801	7,912	293,481
February	2,183,229	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	248,100
May	1,934,569	5,578	694	162,910	5,037	83,140	5,158	236,245
June	1,949,219	5,031	2,216	164,781	4,175	74,253	5,315	248,524
July	1,958,562	5,343	2,140	172,148	4,500	76,334	2,357	255,339
August	^R 1,941,343	5,228	2,189	152,659	4,668	71,406	1,640	230,373
September	1,860,922	5,433	1,788	152,912	4,660	69,772	5,860	233,204

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

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

Source: Form FERC-11.

**Table 12. Natural and Other Gases Produced and Purchased
by Major Interstate Natural Gas Pipeline Companies, September 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	9,801	0	0	0	0	0	0	0
ANR	79,021	0	956	18,876	0	8,405	0	27,281
Arkla Energy Resources Co	44,085	0	0	152	0	0	171	323
Bear Creek Storage	0	0	0	0	0	0	0	0
Colorado Interstate	33,248	4,371	0	5,671	4,371	0	0	10,042
Columbia Gas Transm	50,262	0	0	26,742	0	0	* -133	26,609
Columbia Gulf	92,722	0	0	0	0	0	211	211
Consolidated Gas	35,745	971	0	9,498	1	0	* -12	9,487
East Tennessee	4,790	0	0	1,775	0	0	0	1,775
El Paso	104,268	0	0	6,048	0	0	715	6,763
Equitrans	5,025	0	0	444	0	0	0	444
Florida Gas	29,050	0	0	711	0	0	769	1,480
Great Lakes Gas	69,288	0	0	0	0	110	0	110
High Island Offshore	24,437	0	0	0	0	0	0	0
Iroquois Gas Transm. Sys.	18,829	0	0	0	0	0	0	0
K N Energy Inc	8,907	0	0	2,941	0	0	1,979	4,920
Kern River Gas Trans.	21,256	0	0	0	0	0	0	0
Michigan Gas Storage	16,536	0	0	0	0	0	24	24
Midwestern	7,665	0	0	0	0	0	0	0
Mississippi River	17,092	0	0	8,290	0	0	0	8,290
Mojave Pipeline Co.	7,085	0	0	0	0	0	0	0
Mountain Fuel Res	28,132	0	0	1,035	0	0	199	1,234
National Fuel	16,388	0	0	0	0	0	0	0
Natural Gas Pipeline	125,016	0	832	8,798	0	6,335	* -194	14,939
Northern Border	52,389	0	0	0	0	0	0	0
Northern Natural	135,850	0	0	2,755	0	0	12,605	15,360
Northwest Alaskan	0	0	0	0	0	28,682	0	28,682
Northwest Pipeline	41,271	0	0	353	0	2,151	0	2,504
Overthrust Pipeline	1,999	0	0	0	0	0	0	0
Pacific Gas Transm	17,438	0	0	0	0	23,678	0	23,678
Pacific Interstate	0	0	0	0	0	0	6,528	6,528
Panhandle Eastern	48,761	0	0	* -63	0	0	0	* -63
Sabine Pipeline Co.	15,122	0	0	0	0	0	0	0
Sea Robin Pipeline	23,219	0	0	0	0	0	0	0
Southern Natural	32,843	0	0	9,053	0	0	0	9,053
Stingray Pipeline	17,402	0	0	0	0	0	0	0
Tenneco, Inc	120,150	85	0	8,100	0	413	* -32	8,481
Texas Eastern	76,858	6	0	1,781	0	0	0	1,781
Texas Gas Transm	51,851	0	0	4,847	0	0	55	4,902
Trailblazer Pipeline	9,815	0	0	0	0	0	0	0
Transcontinental	160,988	0	0	17,528	0	0	1,269	18,797
Transwestern Pipeline	51,229	0	0	* -5	0	0	0	* -5
Trunkline Gas Co	44,482	0	0	8,778	0	0	0	8,778
U-T Offshore	10,082	0	0	0	0	0	0	0
United Gas Pipeline	52,386	0	0	5,728	0	0	0	5,728
Valero Interstate Transm	3,223	0	0	0	0	0	1,219	1,219
Viking Gas Company	10,873	0	0	0	0	0	0	0
Williams Natural	23,188	0	0	540	0	0	112	652
Williston Basin	3,395	0	0	536	288	0	0	824
Wyoming Interstate	7,660	0	0	0	0	0	0	0
Total	1,860,922	5,433	1,788	152,912	4,660	69,772	25,485	252,829
Purchases from Other Major Companies	--	--	--	0	0	0	19,625	19,625
Purchases Excluding Purchases from Other Major Companies	--	--	--	152,912	4,660	69,772	5,860	233,204

* 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 ^b	Volume	Percent	Injections	Withdrawals	Net ^c
1987 Total^a	3,792	2,756	6,548	7	0.3	1,887	1,881	6
1988 Total^a	3,800	2,850	6,650	94	3.4	2,174	2,244	-69
1989 Total^a	3,812	2,513	6,325	-337	-11.8	2,491	2,804	-313
1990 Total^a	3,868	3,068	6,936	555	22.1	2,433	1,934	499
1991								
January	3,911	2,362	6,273	92	4.1	115	660	-545
February	3,908	2,063	5,972	59	3.0	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	290	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
Total	--	--	--	--	--	2,608	2,689	-80
1992								
January	4,061	2,216	6,277	-146	-6.2	68	591	-524
February	4,057	1,837	5,894	-226	-10.9	52	441	-389
March	4,046	1,545	5,591	-367	-19.2	81	381	-301
April	4,038	1,573	5,611	-463	-22.8	167	150	18
May	4,044	1,848	5,892	-425	-18.7	330	53	277
June	4,050	2,153	6,203	-400	-15.7	366	43	323
July	4,064	2,480	6,524	-311	-11.2	357	50	307
August	4,062	2,761	6,823	-217	-7.3	364	54	309
September	4,061	3,044	7,105	-157	-4.9	346	48	298
October	4,065	3,223	7,288	-146	-4.3	264	78	186
November	4,061	3,054	7,115	-94	-3.0	95	276	-181
December	4,044	2,597	6,641	-227	-8.0	65	557	-491
Total	--	--	--	--	--	2,555	2,724	-168
1993								
January	4,040	2,045	6,086	-170	-7.7	50	605	-556
February	4,014	1,519	5,532	-319	-17.3	27	578	-552
March	3,993	1,237	5,230	-308	-19.9	78	381	-304
April	3,999	1,335	5,334	-238	-15.1	219	111	108
May	4,017	1,738	5,755	-111	-6.0	447	25	423
June	4,029	2,100	6,128	-53	-2.5	416	43	372
July	4,030	2,465	6,495	5	.2	398	48	350
August	4,254	2,566	6,820	-195	-7.1	419	98	321
September	4,254	2,901	7,155	-143	-4.7	378	25	352
October	4,314	2,992	7,305	-232	-7.2	247	97	150
November	4,323	2,781	7,104	-273	-8.9	110	315	-204

^a Total as of December 31.

^b 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.

^c 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 1992 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 ^b	Volume	Percent	Injections	Withdrawals	Net ^c
1987 Total^a	2,461	2,024	4,485	14	0.7	1,365	1,348	17
1988 Total^a	2,469	2,092	4,561	68	3.3	1,587	1,532	55
1989 Total^a	2,478	1,764	4,242	-328	-15.7	1,788	2,072	-285
1990 Total^a	2,496	2,203	4,699	439	24.9	1,705	1,284	421
1991								
January	2,542	1,718	4,261	114	7.1	105	482	-377
February	2,546	1,502	4,048	40	2.7	93	292	-199
March	2,535	1,418	3,952	26	1.8	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	48	170
June	2,575	1,834	4,409	51	2.9	213	35	178
July	2,576	1,970	4,546	-39	-2.0	193	63	130
August	2,577	2,105	4,682	-109	-4.9	186	64	122
September	2,571	2,265	4,836	-122	-5.1	211	64	148
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	327	-215
Total	--	--	--	--	--	1,904	2,015	-111
1992								
January	2,675	1,554	4,230	-164	-9.5	60	410	-350
February	2,671	1,289	3,960	-213	-14.2	37	317	-280
March	2,661	1,080	3,741	-338	-23.8	65	284	-219
April	2,653	1,104	3,757	-396	-26.4	121	108	12
May	2,659	1,285	3,945	-362	-22.0	237	42	195
June	2,665	1,486	4,151	-348	-19.0	253	32	221
July	2,679	1,685	4,375	-274	-13.9	254	34	220
August	2,676	1,908	4,584	-197	-9.4	260	36	224
September	2,675	2,111	4,785	-155	-6.8	240	27	213
October	2,677	2,231	4,908	-151	-6.3	184	56	128
November	2,673	2,110	4,784	-100	-4.5	74	209	-135
December	2,652	1,819	4,471	-166	-8.4	54	386	-332
Total	--	--	--	--	--	1,838	1,940	-102
1993								
January	2,649	1,443	4,091	-112	-7.2	42	421	-379
February	2,632	1,050	3,683	-239	-18.5	17	425	-409
March	2,615	829	3,444	-251	-23.3	46	282	-235
April	2,621	897	3,518	-207	-18.7	146	78	68
May	2,637	1,191	3,828	-94	-7.3	328	16	312
June	2,648	1,462	4,110	-24	-1.6	307	26	281
July	2,650	1,734	4,384	38	2.3	286	28	257
August	2,872	1,756	4,628	-152	-8.0	310	77	241
September	2,874	2,018	4,892	-93	-4.4	274	13	261
October	2,932	2,054	4,986	-177	-7.9	169	77	92
November	2,944	1,877	4,821	-233	-11.1	78	243	-165

^a Total as of December 31.

^b 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.

^c 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 1992 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 ^b	Volume	Percent	Injections	Withdrawals	Net ^c
1987 Total^a	1,331	732	2,063	-7	0.1	522	533	-11
1988 Total^a	1,331	758	2,089	26	3.8	587	711	-124
1989 Total^a	1,335	749	2,083	-9	-1.2	705	732	-26
1990 Total^a	1,372	864	2,236	115	15.4	728	650	78
1991								
January	1,369	644	2,012	-21	-3.2	10	178	-168
February	1,362	562	1,924	21	3.8	19	105	-86
March	1,360	494	1,854	13	2.7	20	90	-70
April	1,361	537	1,898	16	3.0	63	22	41
May	1,362	626	1,988	16	2.6	101	11	91
June	1,364	719	2,083	18	2.5	101	7	94
July	1,366	802	2,168	21	2.6	97	13	84
August	1,372	873	2,245	17	2.0	96	17	78
September	1,379	936	2,315	3	.3	83	14	69
October	1,390	987	2,377	-11	-1.2	70	20	49
November	1,380	937	2,317	-70	-6.9	33	78	-45
December	1,383	839	2,221	-25	-2.9	13	120	-108
Total	--	--	--	--	--	705	674	31
1992								
January	1,386	661	2,047	18	2.7	8	182	-174
February	1,386	548	1,934	-13	-2.4	15	124	-109
March	1,385	465	1,850	-29	-5.9	16	98	-82
April	1,385	470	1,854	-67	-12.5	47	42	5
May	1,385	563	1,948	-63	-10.1	93	11	82
June	1,385	666	2,051	-52	-7.3	113	11	102
July	1,385	764	2,150	-37	-4.6	103	16	87
August	1,386	853	2,239	-20	-2.3	103	18	85
September	1,386	933	2,320	-3	-.3	106	21	85
October	1,388	992	2,380	6	.6	80	22	57
November	1,388	943	2,331	6	.6	21	67	-46
December	1,392	778	2,170	-61	-7.3	11	171	-160
Total	--	--	--	--	--	717	784	-67
1993								
January	1,392	603	1,994	-59	-8.9	7	184	-177
February	1,381	468	1,850	-80	-14.6	10	153	-143
March	1,377	408	1,786	-57	-12.2	31	100	-69
April	1,378	439	1,816	-31	-6.6	72	33	39
May	1,381	547	1,927	-16	-2.9	120	9	110
June	1,381	638	2,018	-29	-4.3	108	17	91
July	1,380	731	2,111	-33	-4.3	112	19	93
August	1,382	810	2,192	-43	-5.0	101	21	81
September	1,380	883	2,263	-50	-5.4	104	13	91
October	1,382	937	2,319	-55	-5.5	77	20	57
November	1,379	904	2,283	-40	-4.2	33	72	-39

^a Total as of December 31.

^b 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.

^c 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 1992 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	November 1993	October 1993	September 1993	August 1993	July 1993	June 1993	May 1993
Arkansas	634	126	0	0	10	-14	824
California	15,024	-12,900	-14,928	-10,526	-23,040	-13,993	-28,521
Colorado	2,289	435	-4,187	-4,540	-3,880	-4,646	-2,713
Illinois	9,243	-24,512	-36,219	-33,793	-30,687	-32,862	-33,685
Indiana	1,370	-1,348	-4,192	-4,509	-4,420	-2,089	-1,257
Iowa	6,658	-7,585	-12,617	-10,344	-10,896	-8,100	-6,824
Kansas	9,824	-1,785	-14,328	-8,785	-5,456	-11,747	-24,818
Kentucky	5,840	-1,089	-6,357	-4,815	-7,557	-7,759	-6,426
Louisiana	13,951	-15,682	-35,450	-27,651	-27,479	-33,949	-28,839
Maryland	-411	-2,688	-2,547	-1,718	-1,126	-1,175	-2,217
Michigan	51,340	-34,324	-66,961	-82,034	-84,803	-85,218	-75,304
Minnesota	75	-83	-238	-128	-409	-344	-318
Mississippi	913	275	-5,491	-3,438	-5,007	-4,556	-7,012
Missouri	122	-215	-206	-317	-102	-451	-1,049
Montana	4,106	88	-453	-302	-1,169	685	1,157
Nebraska	1,766	30	-1,539	-1,857	-2,561	-4,278	-2,958
New Mexico	2,713	-376	-612	2,318	-269	-1,221	-2,705
New York	3,440	-2,063	-7,364	-8,269	-10,095	-10,768	-10,921
Ohio	11,977	-6,840	-25,635	-26,949	-29,068	-31,671	-29,544
Oklahoma	17,766	-8,050	-15,942	-13,432	-14,917	-17,825	-20,586
Oregon	731	-490	-578	-1,042	-1,181	-1,298	-1,645
Pennsylvania	6,173	-14,785	-49,905	-40,777	-46,928	-53,535	-57,981
Texas	15,148	-4,403	-18,525	-11,964	-9,730	-8,376	-27,775
Utah	5,588	-5,223	-4,836	-5,153	-5,170	-6,636	-6,685
Washington	3,780	1,759	-1,979	-620	-2,148	-866	-4,528
West Virginia	12,919	-6,864	-20,458	-18,781	-20,172	-27,572	-39,358
Wyoming	1,445	-922	-939	-1,625	-2,051	-2,069	-983
Total	204,424	-149,515	-352,488	-321,050	-350,311	-372,334	-422,670

See footnotes at end of table.

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

States	April 1993	March 1993	February 1993	January 1993	Total 1992	December 1992	November 1992
Arkansas	121	478	872	633	514	624	366
California	-15,646	-6,478	17,346	37,972	28,120	54,629	9,135
Colorado	3,405	2,509	5,116	3,207	4,860	2,582	3,085
Illinois	-2,881	25,052	49,451	59,730	8,608	42,048	14,263
Indiana	-400	2,558	5,026	5,572	840	3,610	2,364
Iowa	-5,491	2,650	10,799	18,971	4,259	18,942	7,997
Kansas	-3,308	4,688	15,609	18,609	18,486	12,181	9,027
Kentucky	726	9,515	10,958	5,114	-6,573	2,982	1,514
Louisiana	592	23,512	43,797	47,855	13,958	31,771	5,495
Maryland	456	1,859	4,290	3,272	-333	2,249	-544
Michigan	-20,444	65,891	103,072	97,623	2,251	84,911	47,094
Minnesota	49	418	418	396	-43	193	7
Mississippi	-2,489	6,098	8,450	5,963	-1,732	6,940	998
Missouri	-1,551	1,085	1,811	1,091	15	7	8
Montana	1,710	2,759	4,420	5,100	12,602	5,601	3,347
Nebraska	-975	1,010	2,009	3,344	-407	3,451	2,461
New Mexico	2,927	792	4,164	2,613	2,458	-417	1,036
New York	-3,964	10,303	16,122	13,106	-1,572	10,534	3,023
Ohio	-3,384	38,459	45,111	38,493	15,672	31,661	5,352
Oklahoma	-12,860	8,856	21,531	23,966	10,058	31,363	16,578
Oregon	426	728	1,397	1,918	872	579	1,100
Pennsylvania	-18,784	56,156	100,956	71,301	-5,873	57,665	-2,844
Texas	-19,952	12,328	24,856	45,359	43,441	55,358	35,326
Utah	1,016	3,663	5,057	5,873	-4,482	6,756	5,453
Washington	-1,002	-1,231	3,347	3,439	5,667	3,797	947
West Virginia	-5,496	29,813	43,205	31,863	8,180	17,912	6,875
Wyoming	-500	371	2,388	3,361	8,536	3,440	1,735
Total	-107,702	303,841	551,578	555,745	168,381	491,369	181,199

See footnotes at end of table.

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

States	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992
Arkansas	196	-434	-664	-852	-509	16	159
California	-8,186	-17,264	-10,887	-15,281	-23,985	-15,170	-15,220
Colorado	-2,169	-5,922	-6,286	-4,177	-2,019	368	4,146
Illinois	-26,155	-32,462	-35,313	-28,140	-29,861	-31,163	8,578
Indiana	-2,936	-5,203	-4,107	-5,123	-2,563	-1,206	500
Iowa	-8,683	-10,088	-10,162	-10,141	-7,264	-7,583	-2,061
Kansas	-3,672	-10,142	-11,527	-4,255	-2,319	-2,161	4,821
Kentucky	-10,704	-4,201	-1,610	-3,544	-1,546	1,236	1,675
Louisiana	-18,911	-16,545	-13,386	-13,811	-18,063	-19,021	-719
Maryland	-1,333	-2,204	-2,546	-1,942	-2,867	-3,527	958
Michigan	-28,345	-67,401	-67,079	-73,161	-66,808	-43,850	-507
Minnesota	4	-126	-184	-299	-307	-391	198
Mississippi	-267	-6,250	-297	-4,165	-7,931	-3,896	-106
Missouri	-191	-208	-218	-266	-146	-427	-1,570
Montana	1,357	280	-766	-1,026	-714	-1,517	-63
Nebraska	316	-1,167	-1,187	-2,083	-2,611	-1,609	-604
New Mexico	-2,559	-1,172	-1,949	2,103	-542	95	2,400
New York	-3,455	-6,488	-9,745	-10,849	-9,127	-9,430	-2,328
Ohio	-11,598	-15,846	-23,106	-28,770	-29,912	-26,466	-2,246
Oklahoma	-7,728	-12,709	-5,444	-16,356	-11,329	-8,448	-5,813
Oregon	-173	-453	-1,010	-1,194	-1,540	-1,572	443
Pennsylvania	-28,736	-47,631	-48,824	-41,339	-58,946	-45,507	-6,017
Texas	-9,677	-15,735	-28,309	-17,447	-16,212	-26,278	-2,096
Utah	-1,284	-3,128	-4,680	-3,526	-2,776	-3,514	-1,845
Washington	760	-1,196	-1,458	-1,024	-1,175	-1,351	877
West Virginia	-12,723	-13,281	-18,576	-19,023	-21,294	-24,410	-1,169
Wyoming	1,034	-814	-101	-1,069	-568	-343	84
Total	-185,819	-297,793	-309,424	-306,761	-322,935	-277,127	-17,528

See footnotes at end of table.

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

States	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Arkansas	443	519	652	1,966	664	629
California	14,214	15,305	40,831	-12,276	24,681	6,113
Colorado	6,690	2,758	5,804	-7,370	598	-1,468
Illinois	25,247	43,448	58,118	978	34,113	17,558
Indiana	4,104	4,606	6,794	926	4,626	-802
Iowa	3,325	11,535	18,442	5,207	13,739	4,997
Kansas	9,031	13,082	4,420	-10,822	-2,317	8,913
Kentucky	4,848	1,211	1,568	1,397	2,686	6,590
Louisiana	10,774	24,031	42,343	24,989	30,577	12,743
Maryland	2,840	5,269	3,314	-1,852	1,070	-334
Michigan	62,627	72,236	82,535	39,200	74,384	56,578
Minnesota	311	123	426	-267	53	77
Mississippi	2,086	1,362	9,794	5,884	6,130	7,864
Missouri	330	1,199	1,498	-1,117	12	-199
Montana	484	2,207	3,412	9,737	3,548	2,875
Nebraska	46	1,041	1,540	-229	2,362	402
New Mexico	734	710	2,019	-3,694	-1,002	147
New York	11,629	13,614	11,051	-11,619	7,125	3,662
Ohio	36,501	35,632	44,471	-431	27,910	12,644
Oklahoma	3,738	8,339	17,866	12,139	11,502	26,655
Oregon	1,586	1,540	1,568	-566	487	-23
Pennsylvania	61,022	73,709	81,577	11,335	37,591	10,030
Texas	4,693	20,462	43,357	-6,398	9,801	8,300
Utah	-252	415	3,899	9,976	7,418	5,792
Washington	581	2,979	1,930	-3,200	458	-1,040
West Virginia	32,072	29,522	32,275	16,888	22,834	11,077
Wyoming	866	2,005	2,269	-426	1,941	1,809
Total	300,570	388,858	523,770	80,355	322,991	201,590

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 and 1992" 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, November 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	17,675	4,421	22,096	-3,235	-42.3	0	634
California	472,109	247,420	198,700	446,120	1,004	.5	2,101	17,125
Colorado	105,790	47,757	31,936	79,693	-3,868	-10.8	1,180	3,469
Illinois	952,388	624,483	277,227	901,710	-33,025	-10.6	10,294	19,538
Indiana	106,677	71,453	32,718	104,171	-14	.0	934	2,303
Iowa	279,700	200,700	57,880	258,580	-45,854	-44.2	2,430	9,088
Kansas	289,798	181,601	87,228	268,829	14,134	19.3	2,808	12,633
Kentucky	210,242	105,481	94,203	199,683	-1,188	-1.2	1,362	7,202
Louisiana	539,200	253,301	211,758	465,059	24,522	13.1	28,167	42,118
Maryland	62,400	46,677	14,826	61,504	-379	-2.5	825	415
Michigan	1,043,782	420,609	531,042	951,651	44,547	9.2	4,005	55,345
Minnesota	7,000	4,655	2,268	6,923	-39	-1.7	0	75
Mississippi	114,627	70,555	38,314	108,869	-20,850	-35.2	5,657	6,570
Missouri	30,564	21,600	8,720	30,320	-226	-2.5	556	678
Montana	375,010	168,573	85,137	253,710	-22,384	-20.8	175	4,281
Nebraska	93,312	77,857	8,936	86,793	-49,012	-84.6	0	1,766
New Mexico	94,600	29,766	7,832	37,597	-7,107	-47.6	537	3,250
New York	173,463	108,690	62,563	171,253	-10,273	-14.1	2,108	5,549
Ohio	594,644	358,966	151,505	510,471	-13,058	-7.9	2,971	14,948
Oklahoma	359,616	229,765	107,787	337,553	-46,309	-30.1	969	18,735
Oregon	11,445	3,291	7,509	10,800	454	6.4	0	731
Pennsylvania	664,694	360,977	328,073	689,050	-4,885	-1.5	19,784	25,957
Texas	598,783	234,306	204,928	439,234	-119,945	-36.9	15,124	30,272
Utah	114,980	51,164	28,654	79,818	4,211	17.2	515	6,102
Washington	34,100	18,800	9,567	28,367	-3,745	-28.1	344	4,124
West Virginia	519,286	305,949	162,821	468,770	26,968	19.9	7,180	20,099
Wyoming	105,669	60,746	24,280	85,025	-3,466	-12.5	432	1,877
Total	7,985,156	4,322,818	2,780,832	7,103,650	-273,021	-8.9	110,460	314,884

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, 1992-1993

(Million Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	October 1993	September 1993	August 1993
Alabama	40,672	38,981	35,867	1,522	1,326	1,326
Alaska	10,825	11,226	10,515	1,043	513	402
Arizona	21,761	21,692	24,795	988	855	802
Arkansas	35,336	30,157	31,264	1,576	1,103	1,017
California	389,568	366,980	402,424	24,385	23,927	22,743
Colorado	82,447	71,292	75,356	4,436	3,019	2,384
Connecticut	32,663	32,663	28,538	2,286	1,117	959
Delaware	6,694	6,322	5,750	288	184	167
District of Columbia	13,205	13,060	12,065	582	423	414
Florida	11,224	11,658	10,100	699	662	611
Georgia	83,558	76,725	68,371	6,126	2,882	2,922
Hawaii	465	459	455	42	42	41
Idaho	9,307	6,889	7,576	479	309	250
Illinois	369,009	342,779	334,762	31,948	15,198	9,736
Indiana	122,286	112,479	106,916	9,447	4,001	3,080
Iowa	63,158	53,701	57,518	4,604	2,142	1,527
Kansas	66,667	52,687	56,528	2,684	1,803	1,684
Kentucky	48,128	44,298	42,107	3,885	1,420	1,145
Louisiana	43,628	42,624	41,826	2,114	1,890	1,837
Maine	685	692	564	62	27	22
Maryland	58,740	57,700	52,650	3,586	2,114	1,898
Massachusetts	96,677	95,425	82,032	5,644	3,286	3,090
Michigan	281,518	273,434	254,636	22,111	9,908	7,120
Minnesota	92,429	82,161	84,518	7,000	3,537	2,389
Mississippi	22,025	20,362	19,774	934	816	789
Missouri	106,483	86,510	91,078	4,772	3,095	2,486
Montana	15,121	11,817	13,570	1,234	735	526
Nebraska	40,109	29,768	32,902	1,906	1,162	954
Nevada	15,930	13,656	14,879	804	651	612
New Hampshire	5,175	5,173	4,466	328	155	124
New Jersey	156,451	152,956	135,669	9,887	5,304	4,617
New Mexico	24,215	24,247	23,443	1,041	856	828
New York	303,962	298,216	262,994	19,182	9,836	9,195
North Carolina	36,494	32,323	28,579	1,461	815	762
North Dakota	8,296	7,231	7,662	505	271	210
Ohio	265,773	256,896	237,953	20,304	7,937	6,501
Oklahoma	61,070	49,454	52,216	2,324	1,734	1,616
Oregon	22,708	16,779	20,664	1,117	699	672
Pennsylvania	206,651	205,113	184,951	15,206	6,898	5,668
Rhode Island	16,189	15,877	13,744	975	487	472
South Carolina	18,470	16,859	14,520	624	387	373
South Dakota	9,403	7,727	8,189	641	363	236
Tennessee	43,363	38,621	36,656	1,801	1,108	1,007
Texas	173,077	160,043	165,548	11,442	7,217	7,393
Utah	39,484	32,901	38,437	2,322	1,449	1,353
Vermont	2,057	2,008	1,703	127	51	45
Virginia	49,159	47,481	40,944	2,655	1,414	1,391
Washington	41,392	30,882	35,483	NA	1,406	1,270
West Virginia	26,592	28,026	24,655	1,805	735	616
Wisconsin	97,889	91,093	90,796	7,833	3,874	2,570
Wyoming	9,763	8,022	9,147	641	381	292
Total	3,797,945	3,536,123	3,437,755	251,838	141,523	120,146

See footnote at end of table.

Table 18. Natural Gas Deliveries to Residential Consumers by State, 1992-1993
(Continued)
(Million Cubic Feet)

State	July 1993	June 1993	May 1993	April 1993	March 1993	February 1993
Alabama	1,426	1,636	2,840	5,652	8,691	8,165
Alaska	423	577	891	1,288	1,471	2,138
Arizona	833	1,097	1,298	2,179	4,080	4,122
Arkansas	1,109	1,309	2,256	4,970	6,735	7,123
California	23,641	25,109	29,404	36,242	50,580	65,997
Colorado	2,843	3,985	6,487	9,870	14,984	15,937
Connecticut	1,026	1,257	1,921	3,989	6,171	7,302
Delaware	184	242	447	1,016	1,483	1,382
District of Columbia	432	540	817	1,624	2,838	2,795
Florida	671	764	952	1,463	1,903	1,849
Georgia	3,013	3,111	4,449	9,292	15,885	18,101
Hawaii	46	47	44	48	52	51
Idaho	301	333	689	1,040	1,699	1,951
Illinois	10,380	12,724	18,265	42,438	68,000	74,465
Indiana	3,140	4,346	6,398	14,327	23,924	25,852
Iowa	1,566	2,387	3,458	7,613	11,612	13,078
Kansas	1,874	2,459	4,727	9,182	13,049	13,450
Kentucky	1,299	1,722	1,921	5,024	9,264	11,225
Louisiana	2,112	2,217	2,946	5,580	7,940	8,409
Maine	22	30	38	71	115	153
Maryland	1,943	2,442	3,419	6,596	12,217	12,767
Massachusetts	3,505	4,472	7,277	13,203	18,308	19,634
Michigan	8,494	11,337	18,067	34,718	54,009	56,815
Minnesota	2,565	3,564	5,382	10,745	16,317	18,621
Mississippi	831	949	1,467	2,965	4,402	4,393
Missouri	2,870	3,675	7,478	13,434	21,556	21,884
Montana	604	639	997	1,674	2,591	2,490
Nebraska	1,068	1,427	2,252	4,864	7,316	7,759
Nevada	600	910	1,087	1,503	2,715	3,157
New Hampshire	149	211	349	721	1,009	1,081
New Jersey	5,104	5,972	8,744	19,991	31,606	34,599
New Mexico	856	1,062	1,699	2,798	4,026	4,736
New York	10,140	13,837	20,317	39,136	60,720	62,212
North Carolina	830	1,040	1,979	5,036	8,033	8,149
North Dakota	268	350	568	1,082	1,462	1,522
Ohio	7,220	11,797	13,734	32,024	52,333	58,337
Oklahoma	1,837	2,338	3,917	8,042	12,165	12,493
Oregon	768	945	1,769	2,533	3,844	4,570
Pennsylvania	5,595	8,528	10,967	24,899	42,203	44,864
Rhode Island	558	671	1,117	2,200	3,291	3,326
South Carolina	402	495	947	2,532	4,230	4,247
South Dakota	281	370	606	1,153	1,678	1,784
Tennessee	1,102	1,353	2,288	5,647	9,840	9,089
Texas	7,750	8,441	10,676	17,317	27,195	34,330
Utah	1,533	1,845	3,055	4,375	6,589	8,045
Vermont	50	84	138	271	433	446
Virginia	1,420	1,608	2,402	5,781	10,351	11,461
Washington	1,455	2,676	3,191	4,766	6,815	7,491
West Virginia	529	955	1,596	3,534	5,724	5,916
Wisconsin	2,487	3,726	5,548	12,504	18,048	18,316
Wyoming	366	506	811	1,166	1,655	1,799
Total	129,524	164,118	234,089	450,098	702,955	769,882

See footnote at end of table.

Table 18. Natural Gas Deliveries to Residential Consumers by State, 1992-1993
(Continued)
(Million Cubic Feet)

State	January 1993	Total 1992	December 1992	November 1992	October 1992	September 1992
Alabama	8,087	49,844	7,261	3,402	1,728	1,373
Alaska	2,079	14,350	1,882	1,442	1,209	843
Arizona	5,507	28,386	5,118	1,576	1,000	870
Arkansas	8,139	39,474	6,185	3,132	1,511	1,096
California	87,540	479,537	75,266	37,291	24,434	21,969
Colorado	18,500	94,814	15,715	7,607	3,547	2,544
Connecticut	6,635	42,394	5,855	3,876	2,271	1,155
Delaware	1,301	8,194	1,044	628	307	183
District of Columbia	2,740	16,587	2,213	1,314	642	446
Florida	1,650	14,380	1,766	956	685	636
Georgia	17,977	108,214	18,555	12,934	5,284	3,211
Hawaii	51	551	50	42	42	43
Idaho	2,256	9,659	1,946	1,024	428	274
Illinois	85,855	475,360	77,632	54,950	28,742	13,758
Indiana	27,770	152,692	24,261	15,953	8,361	3,960
Iowa	15,171	74,879	12,827	8,350	3,725	1,885
Kansas	15,775	71,522	12,732	6,102	2,421	1,798
Kentucky	11,222	61,911	10,617	6,997	3,376	1,413
Louisiana	8,584	55,221	8,411	4,185	2,222	2,014
Maine	144	872	111	70	41	17
Maryland	11,757	75,122	10,567	6,855	4,038	2,027
Massachusetts	18,257	119,670	14,189	10,056	5,342	3,369
Michigan	58,940	358,088	50,376	34,278	20,856	9,435
Minnesota	22,308	113,560	18,543	12,857	6,449	3,021
Mississippi	4,480	26,487	4,198	1,927	979	856
Missouri	25,234	116,655	19,801	10,344	4,259	2,942
Montana	3,631	16,673	3,065	1,792	1,106	727
Nebraska	11,404	41,414	7,085	4,561	2,030	1,086
Nevada	3,892	18,184	3,302	1,226	727	608
New Hampshire	1,048	6,449	750	526	288	151
New Jersey	30,626	198,462	27,553	17,953	10,368	5,338
New Mexico	6,313	31,433	5,194	1,992	1,033	889
New York	59,387	378,689	49,715	30,758	18,633	10,006
North Carolina	8,389	42,588	6,819	3,446	1,781	806
North Dakota	2,059	9,693	1,472	990	458	285
Ohio	55,585	340,628	49,551	34,181	20,929	8,111
Oklahoma	14,604	65,811	11,635	4,722	2,236	1,775
Oregon	5,790	23,109	4,337	1,993	1,017	648
Pennsylvania	41,824	266,528	36,609	24,806	15,853	6,950
Rhode Island	3,091	20,000	2,403	1,720	890	547
South Carolina	4,232	22,392	3,784	1,750	792	409
South Dakota	2,291	10,791	1,797	1,267	602	315
Tennessee	10,127	52,220	9,125	4,473	1,885	1,100
Texas	41,315	214,682	35,434	19,205	8,584	7,750
Utah	8,918	44,701	7,957	3,844	1,802	1,321
Vermont	412	2,520	308	205	129	53
Virginia	10,675	62,431	9,396	5,553	3,307	1,467
Washington	9,891	43,048	7,930	4,236	2,236	1,310
West Virginia	5,182	35,291	4,146	3,120	1,899	819
Wisconsin	22,983	123,405	19,080	13,233	7,630	3,229
Wyoming	2,145	10,895	1,803	1,071	551	360
Total	833,773	4,690,065	717,170	436,771	240,662	137,106

See footnote at end of table.

Table 18. Natural Gas Deliveries to Residential Consumers by State, 1992-1993
(Continued)
(Million Cubic Feet)

State	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama	1,311	1,423	1,772	2,714	5,012	5,805
Alaska	438	474	628	1,012	1,346	1,764
Arizona	815	847	1,132	1,207	2,313	3,589
Arkansas	1,124	1,194	1,371	1,854	3,828	4,305
California	22,039	22,397	24,100	28,422	37,311	46,860
Colorado	2,438	2,809	3,963	5,005	8,789	11,499
Connecticut	996	1,125	1,394	2,417	4,284	5,777
Delaware	179	197	301	528	948	1,158
District of Columbia	420	469	630	948	1,820	2,172
Florida	627	674	733	936	1,340	1,478
Georgia	2,981	3,170	3,536	4,718	7,360	12,768
Hawaii	42	45	46	47	46	48
Idaho	183	233	247	445	730	944
Illinois	11,171	10,391	12,963	22,488	40,752	59,187
Indiana	3,312	3,484	4,627	7,584	14,093	18,963
Iowa	1,668	1,546	2,186	3,335	6,857	8,482
Kansas	1,740	1,932	2,609	3,788	6,917	7,890
Kentucky	1,416	1,326	1,835	2,626	4,179	7,813
Louisiana	1,960	2,067	2,288	2,799	4,544	5,650
Maine	22	24	37	66	96	122
Maryland	2,068	2,153	2,577	4,007	7,087	9,717
Massachusetts	3,203	3,453	4,822	8,475	13,384	16,712
Michigan	8,655	8,773	11,927	21,545	36,421	46,640
Minnesota	2,525	2,702	3,130	5,136	10,391	14,009
Mississippi	817	896	963	1,267	2,440	2,850
Missouri	2,681	2,931	3,838	5,858	11,044	13,548
Montana	421	485	541	837	1,371	1,620
Nebraska	983	1,047	1,311	2,020	3,760	4,706
Nevada	529	671	695	803	1,394	2,094
New Hampshire	139	159	219	461	766	869
New Jersey	4,918	5,239	6,166	11,680	20,212	26,880
New Mexico	851	929	1,122	1,514	2,723	3,842
New York	9,649	10,509	13,470	23,835	41,548	53,492
North Carolina	734	837	1,301	2,222	4,509	5,194
North Dakota	214	260	311	616	1,002	1,128
Ohio	7,238	8,098	10,336	17,276	31,344	45,783
Oklahoma	1,712	1,949	2,549	3,219	5,961	7,235
Oregon	526	610	772	1,248	1,891	2,477
Pennsylvania	5,902	6,134	8,047	13,989	26,243	36,068
Rhode Island	423	639	771	1,446	2,271	2,802
South Carolina	386	424	597	1,033	2,295	2,650
South Dakota	254	265	321	638	996	1,202
Tennessee	1,051	1,120	1,437	2,188	4,859	6,002
Texas	7,553	8,119	8,776	10,307	14,934	21,265
Utah	1,255	1,406	1,524	1,986	3,184	4,869
Vermont	49	53	72	145	284	367
Virginia	1,406	1,495	1,788	3,269	5,884	7,953
Washington	956	910	1,384	2,377	3,736	4,719
West Virginia	661	683	1,105	2,076	4,038	4,328
Wisconsin	2,662	2,604	3,681	6,373	11,914	15,740
Wyoming	278	323	431	613	951	1,146
Total	125,580	131,801	162,378	251,416	431,401	573,979

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, 1992-1993
(Million Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	October 1993	September 1993	August 1993
Alabama	20,707	19,911	18,624	1,299	1,137	1,096
Alaska	15,925	16,981	16,860	1,564	1,113	958
Arizona	22,168	21,658	22,579	1,559	1,530	1,611
Arkansas	22,978	19,640	20,192	1,386	1,123	1,044
California	217,532	235,271	240,121	21,022	18,305	15,595
Colorado	56,976	50,506	53,348	3,160	3,084	2,393
Connecticut	23,449	23,344	21,046	1,633	1,023	911
Delaware	4,078	3,949	3,357	226	154	154
District of Columbia	13,149	13,079	12,716	833	678	697
Florida	33,963	34,495	31,791	2,979	2,886	2,835
Georgia	44,636	41,578	39,213	3,351	2,474	2,514
Hawaii	1,768	1,782	1,786	173	168	170
Idaho	8,234	6,485	7,319	509	383	362
Illinois	152,983	142,632	142,183	13,063	7,361	5,640
Indiana	57,785	52,488	50,329	4,535	2,365	1,793
Iowa	37,916	32,425	34,161	2,864	1,838	1,208
Kansas	46,069	41,563	46,958	2,539	2,474	3,420
Kentucky	27,637	25,836	24,341	2,305	1,214	1,005
Louisiana	20,348	22,577	20,264	1,355	1,297	1,280
Maine	1,772	1,736	1,429	166	77	67
Maryland	33,551	33,004	29,403	2,213	1,688	1,555
Massachusetts	51,553	51,889	43,114	3,720	2,713	2,513
Michigan	138,111	133,293	129,461	10,119	5,770	4,133
Minnesota	64,849	60,060	62,902	5,575	2,920	2,183
Mississippi	16,058	14,067	13,814	1,047	926	922
Missouri	53,620	45,982	47,856	2,899	2,249	1,988
Montana	10,504	8,191	9,497	902	537	416
Nebraska	28,682	25,561	32,786	2,111	1,302	1,781
Nevada	13,954	12,910	13,889	1,050	910	940
New Hampshire	4,856	4,633	3,965	332	186	171
New Jersey	105,149	103,394	95,257	6,879	5,268	3,901
New Mexico	21,980	21,450	19,545	1,329	1,785	1,408
New York	174,612	174,603	157,444	13,867	9,891	10,413
North Carolina	28,482	28,467	26,951	2,058	1,521	1,415
North Dakota	8,098	7,195	7,956	629	381	294
Ohio	125,124	121,781	112,911	9,572	4,470	3,843
Oklahoma	32,271	26,811	29,961	1,565	1,361	1,442
Oregon	18,644	14,752	17,671	1,188	933	839
Pennsylvania	101,297	103,086	95,845	7,630	4,392	3,897
Rhode Island	6,875	7,475	6,878	503	243	364
South Carolina	13,298	13,210	12,386	983	830	834
South Dakota	8,196	6,543	7,012	633	393	292
Tennessee	39,900	35,723	35,490	2,599	2,022	1,839
Texas	168,797	145,194	143,172	12,816	11,459	15,027
Utah	14,834	12,135	14,938	731	441	414
Vermont	1,823	1,839	1,586	143	83	67
Virginia	41,493	39,148	34,521	3,092	2,104	2,052
Washington	34,490	28,673	32,880	NA	1,844	1,765
West Virginia	19,242	18,931	16,107	1,625	1,086	1,012
Wisconsin	59,384	52,309	52,013	4,833	2,504	1,896
Wyoming	7,492	5,978	6,994	624	350	361
Total	2,277,295	2,166,222	2,122,619	172,283	123,057	114,729

See footnote at end of table.

Table 19. Natural Gas Deliveries to Commercial Consumers by State, 1992-1993
(Continued)
(Million Cubic Feet)

State	July 1993	June 1993	May 1993	April 1993	March 1993	February 1993
Alabama	1,105	1,199	1,564	2,566	3,632	3,581
Alaska	918	1,055	1,442	1,864	2,052	2,472
Arizona	1,665	2,046	1,861	2,418	3,071	2,968
Arkansas	1,010	1,075	1,536	2,914	3,987	4,161
California	19,856	16,987	19,515	19,725	23,421	33,785
Colorado	2,482	3,162	4,353	6,567	9,560	10,266
Connecticut	973	1,012	1,430	2,874	4,286	4,616
Delaware	163	139	281	569	850	810
District of Columbia	658	724	1,138	1,534	2,144	2,414
Florida	2,923	3,075	3,352	3,964	4,065	4,055
Georgia	2,600	2,559	3,077	4,829	7,755	7,887
Hawaii	174	183	168	177	179	190
Idaho	385	389	569	833	1,302	1,684
Illinois	5,877	5,099	7,745	17,603	27,690	29,700
Indiana	1,800	2,057	2,850	6,549	10,975	11,930
Iowa	1,215	1,481	2,030	4,308	6,756	7,756
Kansas	3,504	2,248	2,924	5,087	7,223	7,616
Kentucky	1,029	1,443	1,326	2,923	5,179	5,592
Louisiana	1,269	1,456	1,746	2,381	3,082	3,214
Maine	71	80	107	192	291	364
Maryland	1,496	1,846	2,094	3,742	6,182	6,514
Massachusetts	2,614	3,121	4,066	6,366	8,919	9,032
Michigan	5,039	5,968	8,940	18,049	25,283	27,068
Minnesota	2,176	2,533	3,561	7,222	11,305	12,792
Mississippi	970	958	1,100	1,741	2,655	2,944
Missouri	2,093	2,293	4,168	6,389	9,885	10,245
Montana	439	436	686	1,143	1,750	1,714
Nebraska	1,289	1,351	1,440	3,027	4,472	4,725
Nevada	921	1,054	1,344	1,317	2,022	2,117
New Hampshire	177	204	294	612	912	974
New Jersey	5,985	5,256	7,197	13,341	19,219	20,061
New Mexico	1,416	1,484	1,732	2,334	2,819	3,440
New York	10,369	11,087	11,582	20,159	28,850	29,647
North Carolina	1,314	1,421	1,793	3,300	5,038	5,223
North Dakota	317	347	477	926	1,339	1,478
Ohio	3,919	5,194	6,324	14,913	25,344	26,510
Oklahoma	1,343	1,458	2,075	3,770	5,949	6,186
Oregon	914	1,009	1,447	1,926	2,877	3,367
Pennsylvania	3,505	4,462	5,749	11,795	19,664	21,017
Rhode Island	273	330	429	907	1,325	1,359
South Carolina	826	861	988	1,478	2,158	2,114
South Dakota	315	343	531	996	1,346	1,498
Tennessee	1,912	2,023	2,618	4,625	7,385	7,553
Texas	16,324	15,471	14,520	17,105	19,070	21,693
Utah	471	560	1,074	1,605	2,895	3,307
Vermont	62	80	124	199	350	368
Virginia	1,986	2,171	2,825	4,835	7,305	7,738
Washington	1,816	1,921	2,797	3,817	5,201	5,718
West Virginia	906	1,088	1,271	2,184	3,452	3,504
Wisconsin	2,016	2,594	3,413	7,006	10,572	11,753
Wyoming	336	369	598	828	1,192	1,295
Total	123,216	126,742	156,250	257,452	374,035	408,214

See footnote at end of table.

Table 19. Natural Gas Deliveries to Commercial Consumers by State, 1992-1993
(Continued)
(Million Cubic Feet)

State	January 1993	Total 1992	December 1992	November 1992	October 1992	September 1992
Alabama	3,528	25,235	3,338	1,983	1,320	1,136
Alaska	2,488	21,299	2,390	1,928	1,790	1,252
Arizona	3,439	27,135	3,573	1,858	1,580	1,601
Arkansas	4,742	25,314	3,596	2,078	1,219	1,029
California	29,322	285,035	28,738	20,999	19,112	19,247
Colorado	11,929	66,443	10,319	5,594	3,078	2,312
Connecticut	4,490	29,838	3,871	2,623	1,562	1,075
Delaware	732	4,965	622	395	240	162
District of Columbia	2,328	16,103	1,921	1,103	753	653
Florida	3,929	41,736	3,914	3,317	2,954	2,849
Georgia	7,610	53,861	7,642	4,640	3,201	2,462
Hawaii	185	2,144	184	178	168	178
Idaho	1,817	8,932	1,557	889	465	369
Illinois	33,186	196,972	31,575	22,757	12,394	6,618
Indiana	12,932	72,779	12,097	8,135	4,253	2,131
Iowa	8,662	46,097	7,827	5,843	2,645	1,433
Kansas	9,034	53,973	7,543	4,867	3,162	3,132
Kentucky	5,622	35,419	5,519	4,064	2,237	1,209
Louisiana	3,269	28,454	3,574	2,295	1,577	1,508
Maine	356	2,209	285	188	116	67
Maryland	6,222	42,464	5,565	3,895	2,491	1,615
Massachusetts	8,492	64,355	6,933	5,530	3,776	2,753
Michigan	27,742	173,806	24,211	16,298	9,760	5,431
Minnesota	14,583	82,381	12,795	9,526	5,092	2,631
Mississippi	2,794	17,942	2,367	1,489	942	847
Missouri	11,412	60,963	9,646	5,335	2,728	2,024
Montana	2,479	11,560	2,095	1,271	810	523
Nebraska	7,184	34,491	4,941	3,988	2,508	1,710
Nevada	2,279	16,113	2,170	1,022	982	872
New Hampshire	994	5,862	715	515	295	174
New Jersey	18,042	130,891	16,470	11,027	7,164	5,462
New Mexico	4,243	27,891	4,165	2,269	1,673	1,541
New York	28,766	217,220	25,808	16,804	12,860	9,582
North Carolina	5,398	36,424	4,941	3,010	2,138	1,679
North Dakota	1,911	9,762	1,549	1,015	576	363
Ohio	25,034	160,704	23,770	15,094	9,092	4,418
Oklahoma	7,124	35,235	5,771	2,608	1,449	1,240
Oregon	4,144	19,576	3,166	1,652	1,105	863
Pennsylvania	19,186	134,257	18,385	12,784	8,439	4,579
Rhode Island	1,140	9,089	951	654	609	411
South Carolina	2,225	16,644	2,089	1,345	1,006	875
South Dakota	1,849	9,127	1,476	1,104	558	324
Tennessee	7,326	46,534	6,846	3,963	2,368	1,933
Texas	25,314	184,677	22,093	17,386	11,672	11,356
Utah	3,536	16,599	3,120	1,329	545	405
Vermont	347	2,319	269	211	144	77
Virginia	7,386	50,757	6,895	4,714	3,275	1,903
Washington	7,118	37,893	5,709	3,418	2,240	1,734
West Virginia	3,114	24,419	3,396	2,082	1,482	910
Wisconsin	12,798	71,343	11,087	7,918	4,108	1,954
Wyoming	1,539	8,019	1,271	760	439	287
Total	421,317	2,803,262	380,772	255,758	166,151	120,899

See footnote at end of table.

Table 19. Natural Gas Deliveries to Commercial Consumers by State, 1992-1993
(Continued)
(Million Cubic Feet)

State	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama	1,078	1,108	1,225	1,513	2,287	2,871
Alaska	1,013	1,084	1,208	1,597	1,935	2,319
Arizona	1,505	1,690	1,754	1,820	2,352	2,898
Arkansas	1,022	1,062	1,108	1,358	2,114	2,708
California	21,833	21,150	22,150	27,118	18,379	24,413
Colorado	2,183	2,430	3,055	3,631	5,965	7,609
Connecticut	1,061	1,046	1,149	1,779	2,941	3,940
Delaware	152	166	198	308	537	686
District of Columbia	673	718	764	1,056	1,774	2,132
Florida	2,881	2,976	3,085	3,382	3,741	3,856
Georgia	2,503	2,536	2,596	3,103	4,381	5,778
Hawaii	173	174	184	177	183	174
Idaho	330	345	343	447	643	834
Illinois	6,025	5,811	4,907	8,872	17,598	23,400
Indiana	1,955	1,811	2,004	3,400	6,172	8,437
Iowa	1,257	1,100	1,427	1,877	3,883	4,949
Kansas	3,462	3,609	2,814	3,736	4,571	4,372
Kentucky	1,158	1,066	1,132	1,600	2,612	3,874
Louisiana	1,431	1,556	1,564	1,769	2,367	2,743
Maine	52	79	80	157	229	315
Maryland	1,586	1,553	1,784	2,391	3,807	5,073
Massachusetts	2,884	3,072	2,768	4,450	7,049	8,217
Michigan	4,964	4,981	5,883	10,406	17,769	22,443
Minnesota	2,296	2,244	2,467	3,602	7,517	10,134
Mississippi	867	885	888	994	1,473	1,758
Missouri	1,993	1,849	2,547	3,144	5,601	6,835
Montana	331	365	377	568	930	1,099
Nebraska	2,393	2,366	1,330	1,781	2,411	2,970
Nevada	824	1,015	945	1,012	1,335	1,725
New Hampshire	169	179	208	376	629	762
New Jersey	4,981	5,240	5,294	8,392	14,066	16,759
New Mexico	1,513	1,200	1,171	1,687	2,372	2,730
New York	9,456	9,327	9,915	13,518	23,039	27,748
North Carolina	1,607	1,591	1,733	2,205	3,296	3,983
North Dakota	262	279	298	529	937	1,082
Ohio	4,260	4,291	5,016	7,455	15,893	20,215
Oklahoma	1,292	1,407	1,540	1,785	2,956	3,653
Oregon	782	784	884	1,171	1,542	1,925
Pennsylvania	4,132	4,046	4,520	6,793	12,210	17,679
Rhode Island	479	448	498	676	1,047	1,103
South Carolina	882	820	944	1,068	1,436	1,745
South Dakota	284	291	303	460	828	1,007
Tennessee	1,681	1,838	2,016	2,436	4,205	5,069
Texas	12,966	13,768	10,879	12,557	14,174	15,866
Utah	372	410	457	642	1,155	1,866
Vermont	75	79	75	118	231	320
Virginia	2,055	2,085	2,271	3,289	4,523	5,985
Washington	1,514	1,575	1,830	2,343	3,179	3,855
West Virginia	855	812	999	1,341	2,322	2,986
Wisconsin	1,615	1,759	1,986	3,632	6,870	9,113
Wyoming	269	264	309	438	668	821
Total	121,186	122,339	124,881	169,759	250,136	314,629

^R = Revised Data.

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Deliveries for total year 1992 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,
1992-1993
(Million Cubic Feet)**

State	YTD 1993	YTD 1992	YTD 1991	October 1993	September 1993	August 1993
Alabama	144,395	139,290	127,964	14,775	12,636	13,419
Alaska	62,214	65,714	62,001	5,353	7,052	4,919
Arizona	16,943	16,267	15,982	1,799	1,756	1,676
Arkansas	92,417	98,233	86,089	9,753	8,532	7,887
California	476,925	495,633	510,447	57,645	48,221	46,480
Colorado	71,535	45,557	45,998	6,508	6,901	6,431
Connecticut	31,245	29,792	28,311	3,359	2,686	2,627
Delaware	16,349	14,408	13,494	1,535	1,618	1,658
District of Columbia	0	0	0	0	0	0
Florida	81,733	69,886	68,463	8,716	8,150	8,166
Georgia	139,911	144,072	139,008	14,822	13,314	14,733
Hawaii	0	0	0	0	0	0
Idaho *	23,985	21,846	21,877	2,497	2,067	2,101
Illinois	246,233	242,333	240,601	25,265	20,875	17,810
Indiana	216,359	198,262	184,555	22,013	19,241	18,983
Iowa	83,633	81,533	79,907	9,043	8,367	8,174
Kansas	111,657	105,832	101,212	10,421	9,940	10,933
Kentucky	61,613	59,809	57,354	6,890	5,412	5,190
Louisiana	664,360	788,693	768,918	70,857	69,577	69,247
Maine	1,287	1,676	1,771	187	143	141
Maryland	39,867	40,700	38,784	4,622	3,601	3,892
Massachusetts	65,328	57,956	46,536	8,807	7,992	8,094
Michigan	261,915	249,404	224,904	24,910	22,359	23,408
Minnesota	74,440	75,148	75,323	8,224	6,428	6,152
Mississippi	94,100	85,656	85,710	10,006	8,590	8,903
Missouri	48,318	47,351	46,329	4,834	4,159	3,992
Montana	10,011	9,593	7,532	1,160	1,045	921
Nebraska	27,436	20,907	20,575	2,678	2,551	2,214
Nevada	29,654	7,728	5,594	3,057	3,249	3,209
New Hampshire	3,193	3,231	2,895	327	279	290
New Jersey	152,974	141,286	82,596	14,524	14,422	14,051
New Mexico	15,058	14,148	15,070	1,732	1,633	1,743
New York	125,840	119,701	96,223	12,516	10,931	10,394
North Carolina	77,594	75,268	69,927	7,772	7,202	7,905
North Dakota	5,084	4,845	3,985	474	522	411
Ohio	241,235	238,939	227,703	24,355	20,848	21,157
Oklahoma	146,669	145,408	149,614	NA	13,978	15,069
Oregon	51,268	48,508	45,576	5,247	5,115	5,054
Pennsylvania	203,262	193,846	189,575	19,273	17,099	17,884
Rhode Island	38,588	40,381	20,283	3,896	3,751	4,421
South Carolina	78,512	78,958	71,545	8,487	7,195	8,188
South Dakota	3,900	3,549	3,869	471	324	285
Tennessee	100,919	104,195	94,883	10,221	9,343	10,480
Texas	1,637,075	1,441,148	1,449,264	152,539	221,532	157,355
Utah	36,126	31,522	32,713	3,418	2,714	3,167
Vermont	1,667	1,593	1,354	181	149	139
Virginia	80,192	57,267	50,353	6,435	6,802	11,058
Washington	77,035	65,625	64,630	NA	7,486	7,438
West Virginia	39,886	35,575	34,013	3,987	3,557	3,730
Wisconsin	107,716	103,649	103,051	10,436	9,027	8,083
Wyoming	42,767	46,951	26,822	4,052	4,707	3,650
Total	6,460,223	6,208,871	5,938,983	653,402	675,078	613,313

See footnotes at end of table.

**Table 20. Natural Gas Deliveries to Industrial Consumers by State,
1992-1993 (Continued)
(Million Cubic Feet)**

State	July 1993	June 1993	May 1993	April 1993	March 1993	February 1993
Alabama	14,029	13,539	13,800	14,999	15,943	15,268
Alaska	6,934	5,517	5,906	6,220	6,258	6,298
Arizona	1,598	1,316	1,679	1,867	1,979	1,561
Arkansas	3,207	8,515	8,939	9,393	10,786	9,765
California	52,134	44,010	46,173	43,228	48,371	49,424
Colorado	6,778	7,245	7,322	7,372	7,220	7,683
Connecticut	2,504	2,619	2,737	3,176	3,903	4,043
Delaware	1,604	1,516	1,632	1,726	1,776	1,571
District of Columbia	0	0	0	0	0	0
Florida	8,164	8,044	8,210	7,917	8,362	7,983
Georgia	14,267	13,515	13,488	13,685	14,155	13,736
Hawaii	0	0	0	0	0	0
Idaho ^a	2,154	2,307	2,272	2,383	2,759	2,718
Illinois	19,314	19,830	21,681	24,113	31,811	33,445
Indiana	18,558	19,517	19,866	21,485	25,813	25,146
Iowa	7,164	7,690	7,765	7,847	9,406	9,036
Kansas	12,117	10,374	10,749	10,619	11,489	12,998
Kentucky	4,909	5,146	5,351	6,128	7,429	7,801
Louisiana	70,055	63,367	60,391	64,569	65,052	63,341
Maine	112	69	80	142	136	126
Maryland	3,374	3,742	3,868	3,635	4,634	4,283
Massachusetts	5,428	6,288	5,846	5,305	5,911	5,694
Michigan	22,728	24,666	24,531	27,239	31,681	30,798
Minnesota	6,189	7,192	6,251	7,093	8,841	8,690
Mississippi	9,573	9,031	9,194	9,837	9,854	8,840
Missouri	3,727	4,098	4,188	4,947	6,015	5,789
Montana	954	780	755	931	1,192	1,067
Nebraska	2,624	2,276	2,294	3,653	2,747	2,663
Nevada	3,322	3,240	2,995	4,051	2,181	1,679
New Hampshire	311	297	375	366	325	304
New Jersey	14,046	14,198	14,283	16,500	16,846	16,874
New Mexico	1,414	1,335	1,315	1,533	1,416	1,458
New York	9,984	10,889	11,505	13,610	15,669	14,948
North Carolina	6,829	7,828	7,584	8,054	8,604	7,620
North Dakota	421	482	467	504	582	586
Ohio	14,929	22,180	22,139	26,126	30,726	29,475
Oklahoma	13,959	13,198	14,390	14,510	15,270	14,773
Oregon	4,889	4,725	5,009	5,329	5,457	4,878
Pennsylvania	17,968	19,245	18,966	20,885	24,765	23,606
Rhode Island	3,803	3,799	3,941	3,726	3,771	3,695
South Carolina	7,449	7,884	7,301	7,967	8,723	7,408
South Dakota	334	340	346	364	459	462
Tennessee	8,927	^a 9,454	10,212	9,456	10,368	10,444
Texas	167,329	154,284	143,652	157,790	166,799	149,368
Utah	2,826	^a 2,925	3,164	3,527	4,062	4,733
Vermont	137	136	159	173	191	187
Virginia	10,951	7,470	4,907	7,099	7,839	9,108
Washington	7,134	6,335	7,582	7,503	8,979	8,143
West Virginia	3,815	3,777	3,924	4,116	4,588	4,083
Wisconsin	7,378	8,031	8,792	12,166	14,082	14,459
Wyoming	4,475	4,123	4,737	4,461	3,404	4,306
Total	617,831	^a 598,186	592,712	639,321	698,633	672,366

See footnotes at end of table.

**Table 20. Natural Gas Deliveries to Industrial Consumers by State,
1992-1993 (Continued)
(Million Cubic Feet)**

State	January 1993	Total 1992	December 1992	November 1992	October 1992	September 1992
Alabama	15,987	169,049	14,906	14,853	13,968	13,496
Alaska	7,757	80,938	7,887	7,337	7,810	4,841
Arizona	1,713	19,774	1,974	1,533	1,657	1,562
Arkansas	10,639	118,850	10,701	9,916	9,760	9,778
California	41,239	594,569	48,770	50,165	40,509	52,231
Colorado	8,075	57,579	6,583	5,439	5,093	4,660
Connecticut	3,590	36,383	3,490	3,102	2,867	2,732
Delaware	1,713	18,060	1,760	1,892	1,790	1,433
District of Columbia	0	0	0	0	0	0
Florida	8,022	84,829	7,792	7,151	6,330	6,536
Georgia	14,196	172,227	14,203	13,951	14,085	13,982
Hawaii	0	0	0	0	0	0
Idaho *	2,726	27,044	2,615	2,502	2,351	1,895
Illinois	32,289	300,366	31,294	26,739	24,506	20,992
Indiana	25,736	245,523	24,807	22,453	20,770	18,229
Iowa	9,143	100,752	9,493	9,725	8,384	7,775
Kansas	12,017	130,807	12,952	12,023	13,293	9,933
Kentucky	7,356	73,619	7,162	6,649	6,574	5,308
Louisiana	67,902	932,467	72,036	71,738	72,644	64,894
Maine	152	2,048	165	207	152	164
Maryland	4,217	49,720	4,346	4,674	3,916	3,517
Massachusetts	5,963	70,872	6,530	6,385	5,899	6,004
Michigan	29,595	305,416	27,672	28,339	23,810	20,895
Minnesota	9,380	93,025	8,994	8,883	6,997	6,241
Mississippi	10,271	102,612	8,476	8,480	8,514	8,372
Missouri	6,568	58,466	5,823	5,291	4,626	3,958
Montana	1,206	12,218	1,280	1,345	1,138	1,071
Nebraska	3,737	26,451	3,015	2,529	2,226	2,111
Nevada	2,672	9,259	754	777	903	658
New Hampshire	318	3,828	292	305	270	336
New Jersey	17,230	174,569	16,237	17,046	15,572	14,276
New Mexico	1,480	17,070	1,533	1,389	1,493	1,238
New York	15,192	147,520	14,944	12,875	11,595	11,241
North Carolina	8,195	90,984	7,854	7,862	7,852	7,226
North Dakota	635	5,940	570	525	484	408
Ohio	29,299	294,805	29,294	26,573	23,979	21,158
Oklahoma	16,320	175,168	15,365	14,394	13,263	13,890
Oregon	5,565	58,519	4,908	5,103	5,544	5,437
Pennsylvania	23,571	236,708	21,697	21,164	18,784	17,389
Rhode Island	3,786	47,917	3,803	3,734	4,140	3,730
South Carolina	7,909	94,327	7,032	8,337	7,589	7,766
South Dakota	515	4,488	526	412	330	278
Tennessee	12,014	126,230	11,079	10,956	10,577	9,712
Texas	166,428	1,734,001	155,355	137,499	142,094	147,054
Utah	5,590	40,878	4,741	4,615	3,175	2,522
Vermont	215	1,958	196	169	167	145
Virginia	8,523	88,808	5,590	5,951	4,648	5,732
Washington	8,313	79,766	7,179	6,962	6,744	5,964
West Virginia	4,310	44,178	4,630	3,973	3,751	3,435
Wisconsin	15,263	130,267	14,008	12,610	10,269	8,636
Wyoming	4,852	56,046	4,677	4,419	4,894	4,864
Total	699,383	7,526,898	676,992	840,954	607,784	585,706

See footnotes at end of table.

**Table 20. Natural Gas Deliveries to Industrial Consumers by State,
1992-1993 (Continued)**
(Million Cubic Feet)

State	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama	13,309	13,659	13,739	13,894	13,624	15,147
Alaska	5,355	6,968	6,317	6,902	6,696	6,561
Arizona	1,581	1,627	1,613	1,543	1,642	1,723
Arkansas	9,314	9,129	9,098	9,868	9,864	10,513
California	49,895	43,635	47,916	60,503	32,593	49,236
Colorado	4,044	4,197	4,173	3,949	4,555	4,597
Connecticut	2,643	2,522	2,621	2,775	3,241	3,672
Delaware	1,354	1,238	1,343	1,501	1,548	1,430
District of Columbia	0	0	0	0	0	0
Florida	6,619	6,606	6,991	7,389	7,303	7,293
Georgia	13,862	14,270	13,854	14,505	14,863	15,505
Hawaii	0	0	0	0	0	0
Idaho *	1,657	1,975	2,241	2,286	2,243	2,464
Illinois	18,500	19,944	18,988	22,957	25,873	29,274
Indiana	16,896	17,145	17,745	18,817	19,954	22,941
Iowa	7,636	8,064	7,792	7,771	8,161	8,801
Kansas	9,956	10,029	9,699	9,303	10,097	11,009
Kentucky	5,401	4,797	5,273	5,449	6,023	6,715
Louisiana	73,865	80,422	74,285	78,686	87,445	87,311
Maine	162	161	157	172	219	203
Maryland	3,615	3,825	3,603	3,785	4,419	5,128
Massachusetts	5,995	4,698	6,041	6,524	7,528	4,978
Michigan	21,660	20,153	22,387	24,900	28,501	30,508
Minnesota	6,348	6,436	6,144	6,951	7,863	8,665
Mississippi	7,936	8,302	8,251	8,453	8,936	9,453
Missouri	4,132	3,908	4,084	4,268	5,027	5,533
Montana	904	883	782	841	870	861
Nebraska	1,066	1,917	2,197	1,710	2,172	2,015
Nevada	732	718	783	821	814	821
New Hampshire	333	302	300	312	422	315
New Jersey	14,687	14,037	14,027	13,014	14,133	13,905
New Mexico	1,260	1,038	1,004	1,323	1,563	1,468
New York	10,137	10,465	10,805	11,273	12,441	14,028
North Carolina	7,160	6,663	7,088	7,410	7,565	8,652
North Dakota	390	438	420	469	472	608
Ohio	19,914	19,985	21,123	22,201	26,498	26,339
Oklahoma	14,236	14,509	13,932	14,326	14,259	15,620
Oregon	5,229	4,923	4,296	3,796	3,926	4,352
Pennsylvania	16,876	17,173	16,470	18,523	20,700	22,389
Rhode Island	3,688	4,209	4,241	4,017	4,321	3,999
South Carolina	7,702	7,890	8,110	8,183	8,128	8,921
South Dakota	246	356	323	346	418	435
Tennessee	9,933	10,197	9,366	9,693	11,278	10,643
Texas	143,664	146,392	138,927	147,828	145,134	150,805
Utah	2,512	2,538	2,771	2,632	2,997	3,701
Vermont	130	119	128	149	141	223
Virginia	6,018	7,366	4,886	5,300	5,618	6,205
Washington	6,214	5,717	5,900	6,222	6,616	7,073
West Virginia	3,426	3,209	3,403	3,431	3,697	3,943
Wisconsin	8,127	7,610	7,867	8,838	11,327	13,296
Wyoming	4,551	4,841	4,976	4,667	4,366	4,605
Total	581,772	587,203	578,480	620,479	628,092	673,883

* Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components. Deliveries for total year 1992 do not equal the sum of the twelve months.

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^a Consumers by State, 1992-1993
(Million Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	October 1993	September 1993	August 1993
Alabama	4,095	2,816	3,459	237	213	603
Alaska	22,094	23,476	26,384	2,407	2,017	1,794
Arizona	17,732	30,014	20,998	1,540	1,816	4,184
Arkansas	17,959	26,561	27,288	3,088	3,349	4,587
California	368,617	467,260	373,404	46,514	43,805	44,724
Colorado	4,104	4,097	4,370	448	378	338
Connecticut	520	2,054	4,613	16	22	152
Delaware	6,167	7,218	12,698	1,290	531	1,095
District of Columbia	0	0	0	0	0	0
Florida	151,907	179,797	173,402	12,328	17,684	20,015
Georgia	2,964	1,137	765	50	103	670
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	12,165	8,644	11,330	2,274	1,272	3,369
Indiana	4,594	6,422	7,442	424	250	788
Iowa	3,973	1,866	3,027	200	191	1,589
Kansas	19,540	12,638	33,351	1,406	1,708	5,391
Kentucky	225	225	195	18	54	26
Louisiana	211,948	229,707	226,232	23,055	27,395	39,699
Maine	0	0	0	0	0	0
Maryland	7,576	10,675	15,070	365	1,194	1,563
Massachusetts	26,717	34,211	37,419	2,450	2,854	4,857
Michigan	16,300	21,187	18,741	1,506	930	2,691
Minnesota	3,144	4,340	5,147	281	524	804
Mississippi	34,509	50,712	55,899	4,022	3,238	6,671
Missouri	4,666	2,200	12,326	392	176	2,204
Montana	172	165	210	19	2	52
Nebraska	1,718	1,576	2,783	120	82	399
Nevada	18,664	23,111	19,499	1,935	1,977	2,657
New Hampshire	136	633	0	0	0	0
New Jersey	32,996	36,881	58,234	1,059	3,479	7,797
New Mexico	23,983	19,638	24,147	1,954	2,239	3,097
New York	156,161	186,403	184,092	14,786	15,431	21,138
North Carolina	2,639	2,825	2,531	90	229	564
North Dakota	1	1	0	0	0	0
Ohio	2,617	2,813	2,754	86	76	469
Oklahoma	132,588	130,346	147,832	12,320	13,054	22,607
Oregon	11,129	11,915	7,286	2,065	1,638	2,234
Pennsylvania	7,614	2,690	1,696	700	369	932
Rhode Island	251	469	1,545	0	30	87
South Carolina	1,824	1,707	9,807	6	132	417
South Dakota	108	13	176	9	4	78
Tennessee	1,524	255	121	0	15	386
Texas	932,540	827,396	868,646	91,536	107,761	142,579
Utah	5,187	5,897	3,969	539	414	390
Vermont	266	772	1,068	21	0	0
Virginia	16,430	10,087	8,874	1,383	1,956	2,404
Washington	4,580	5,372	99	4	6	5
West Virginia	107	184	111	4	6	27
Wisconsin	2,705	2,232	2,347	240	207	559
Wyoming	78	68	67	5	1	5
Total	2,297,532	2,400,704	2,421,253	233,192	258,812	356,695

See footnotes at end of table.

Table 21. Natural Gas Deliveries to Electric Utility^a Consumers by State, 1992-1993 (Continued)
(Million Cubic Feet)

State	July 1993	June 1993	May 1993	April 1993	March 1993	February 1993
Alabama	1,444	418	266	144	215	306
Alaska	1,790	2,027	2,105	2,155	2,482	2,535
Arizona	2,590	1,397	1,765	1,402	1,921	588
Arkansas	3,846	1,646	267	311	280	263
California	31,247	31,453	17,816	32,390	38,720	40,118
Colorado	470	398	278	354	514	394
Connecticut	194	13	8	10	20	62
Delaware	1,231	953	272	322	253	55
District of Columbia	0	0	0	0	0	0
Florida	19,776	18,980	16,262	12,549	12,232	11,459
Georgia	1,554	398	74	33	22	49
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	1,951	1,089	377	445	482	396
Indiana	611	245	273	437	457	450
Iowa	835	176	233	238	169	106
Kansas	5,219	2,037	846	649	920	670
Kentucky	24	22	19	27	11	12
Louisiana	36,385	26,473	13,920	10,869	14,087	9,246
Maine	0	0	0	0	0	0
Maryland	2,097	647	385	187	560	349
Massachusetts	4,400	2,606	2,513	3,815	2,955	128
Michigan	2,153	1,685	1,345	925	1,380	1,904
Minnesota	287	297	297	185	164	144
Mississippi	7,334	3,987	2,968	1,335	2,114	1,249
Missouri	1,305	224	54	63	113	75
Montana	34	13	13	4	15	16
Nebraska	454	114	137	148	111	48
Nevada	2,613	1,852	2,157	1,695	2,305	926
New Hampshire	3	36	91	6	0	0
New Jersey	11,574	4,252	1,278	329	1,508	1,383
New Mexico	3,149	2,710	2,067	2,811	2,793	1,699
New York	25,652	19,450	12,276	14,335	12,983	9,569
North Carolina	720	323	100	99	141	205
North Dakota	0	0	0	0	0	0
Ohio	399	149	135	102	417	432
Oklahoma	20,634	13,982	10,542	10,485	10,268	9,249
Oregon	0	15	0	0	1,990	2,074
Pennsylvania	1,206	814	211	337	1,133	1,156
Rhode Island	52	82	0	0	0	0
South Carolina	806	311	24	21	69	20
South Dakota	1	1	2	0	10	2
Tennessee	904	132	15	14	15	21
Texas	135,348	111,153	74,821	71,510	75,318	59,828
Utah	368	422	507	592	697	557
Vermont	129	79	18	15	1	1
Virginia	2,350	1,229	174	1,317	1,776	1,978
Washington	4	0	0	683	1,836	1,896
West Virginia	7	13	4	11	6	19
Wisconsin	245	297	222	343	318	130
Wyoming	6	13	7	7	15	8
Total	333,405	254,601	167,146	173,709	193,795	161,778

See footnotes at end of table.

Table 21. Natural Gas Deliveries to Electric Utility* Consumers by State, 1992-1993 (Continued)
(Million Cubic Feet)

State	January 1993	Total 1992	December 1992	November 1992	October 1992	September 1992
Alabama	249	3,368	171	382	234	305
Alaska	2,781	28,953	2,721	2,756	2,514	2,311
Arizona	530	30,939	328	597	2,631	4,607
Arkansas	322	27,015	246	209	733	2,324
California	41,829	564,432	47,146	50,027	53,026	53,989
Colorado	531	5,019	526	396	493	469
Connecticut	25	2,100	28	18	19	14
Delaware	164	8,384	580	586	581	851
District of Columbia	0	0	0	0	0	0
Florida	10,621	202,576	10,390	12,389	12,525	21,038
Georgia	12	1,162	13	12	65	66
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	509	9,293	370	279	301	554
Indiana	658	7,772	824	525	158	301
Iowa	236	2,265	193	207	200	135
Kansas	694	13,981	809	534	546	1,395
Kentucky	12	269	20	23	19	23
Louisiana	10,820	254,922	11,705	13,510	18,382	23,855
Maine	0	0	0	0	0	0
Maryland	229	11,575	430	469	665	1,228
Massachusetts	138	38,341	227	3,903	3,683	4,664
Michigan	1,781	24,908	1,727	1,994	1,675	1,738
Minnesota	176	4,906	231	336	210	440
Mississippi	1,591	54,180	1,625	1,843	1,616	5,419
Missouri	59	2,351	67	85	67	86
Montana	4	220	8	47	32	10
Nebraska	104	1,903	136	191	210	280
Nevada	547	24,355	436	808	1,968	2,761
New Hampshire	0	633	0	0	16	499
New Jersey	338	38,772	681	1,209	1,562	3,860
New Mexico	1,463	22,486	1,408	1,440	1,803	2,183
New York	10,543	208,731	10,640	11,688	13,307	21,641
North Carolina	167	3,159	169	165	127	336
North Dakota	0	1	0	0	0	0
Ohio	352	2,956	53	90	217	243
Oklahoma	9,447	148,980	10,120	8,514	9,300	15,806
Oregon	1,113	14,264	977	1,373	1,789	2,045
Pennsylvania	757	3,100	262	148	262	274
Rhode Island	0	469	0	0	0	11
South Carolina	17	1,795	5	82	22	42
South Dakota	0	48	9	27	2	1
Tennessee	20	291	25	10	18	15
Texas	62,686	968,165	68,751	72,018	80,276	95,796
Utah	700	6,576	542	138	665	542
Vermont	1	801	1	28	122	2
Virginia	1,862	10,936	839	11	25	714
Washington	147	5,385	9	4	426	523
West Virginia	10	201	8	9	6	18
Wisconsin	143	2,584	146	207	134	249
Wyoming	10	83	7	8	8	6
Total	164,400	2,765,608	175,608	189,296	212,640	273,670

See footnotes at end of table.

Table 21. Natural Gas Deliveries to Electric Utility* Consumers by State, 1992-1993 (Continued)
(Million Cubic Feet)

State	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama	298	322	307	350	216	315
Alaska	2,374	2,342	2,204	2,116	2,410	2,449
Arizona	5,277	3,999	2,778	3,300	2,300	1,953
Arkansas	2,828	4,145	3,788	3,881	4,068	2,403
California	66,474	51,011	36,692	41,687	43,478	42,382
Colorado	479	570	355	357	243	494
Connecticut	291	407	316	131	391	424
Delaware	1,140	971	1,034	598	593	526
District of Columbia	0	0	0	0	0	0
Florida	20,829	21,946	21,623	19,942	18,239	17,249
Georgia	120	654	75	24	106	14
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	589	854	998	955	943	1,720
Indiana	370	488	760	1,056	605	535
Iowa	277	262	208	155	195	157
Kansas	2,036	2,833	1,388	1,385	910	717
Kentucky	28	23	28	16	23	16
Louisiana	26,733	33,952	30,520	26,127	22,298	20,481
Maine	0	0	0	0	0	0
Maryland	1,457	3,004	1,367	974	772	694
Massachusetts	4,803	7,643	5,418	3,630	3,795	463
Michigan	2,421	1,449	1,473	2,126	2,516	3,171
Minnesota	473	509	491	352	316	508
Mississippi	5,359	7,189	5,227	6,629	5,878	5,152
Missouri	200	1,025	131	176	79	186
Montana	20	29	20	26	11	7
Nebraska	85	153	139	111	211	213
Nevada	3,629	3,491	3,091	2,681	2,152	1,499
New Hampshire	118	0	0	0	0	0
New Jersey	6,351	12,179	3,330	1,794	3,878	2,975
New Mexico	2,594	2,532	1,911	2,444	1,981	1,288
New York	22,006	25,124	23,875	20,936	18,809	17,363
North Carolina	361	614	341	180	159	206
North Dakota	0	0	0	0	0	0
Ohio	288	264	173	339	409	309
Oklahoma	15,714	17,018	14,312	13,004	13,652	12,412
Oregon	1,854	1,437	661	0	0	0
Pennsylvania	320	824	345	129	138	178
Rhode Island	78	80	90	78	90	43
South Carolina	82	525	202	10	13	793
South Dakota	5	0	1	1	0	1
Tennessee	7	40	35	33	37	48
Texas	99,748	120,114	97,150	76,427	74,644	66,472
Utah	550	517	509	627	642	647
Vermont	34	186	160	122	122	20
Virginia	945	2,408	1,014	909	1,036	805
Washington	2,698	185	1,028	195	293	6
West Virginia	24	26	47	28	7	5
Wisconsin	178	219	259	269	345	351
Wyoming	5	5	8	4	12	6
Total	302,544	333,567	265,882	236,316	229,012	207,656

* 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, 1992-1993
(Million Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	October 1993	September 1993	August 1993
Alabama	209,869	200,998	185,914	17,833	15,312	16,445
Alaska	111,058	117,397	115,560	10,367	10,694	8,073
Arizona	78,604	89,630	84,353	5,886	5,956	8,272
Arkansas	168,690	174,590	164,832	15,602	14,107	14,534
California	1,452,642	1,565,144	1,526,396	149,566	134,258	129,541
Colorado	215,062	171,453	179,071	14,552	13,382	11,547
Connecticut	87,876	87,853	80,508	7,294	4,847	4,649
Delaware	33,288	32,096	35,300	3,340	2,487	3,073
District of Columbia	26,354	26,139	24,780	1,416	1,101	1,111
Florida	278,827	295,836	283,757	24,721	29,382	31,627
Georgia	271,089	263,512	247,356	24,350	18,773	20,839
Hawaii	2,233	2,241	2,241	215	211	211
Idaho	41,526	35,020	36,771	3,485	2,759	2,714
Illinois	780,370	736,387	728,877	72,551	44,706	36,555
Indiana	401,023	369,651	349,242	36,419	25,857	24,644
Iowa	188,681	169,525	174,612	16,711	12,338	12,498
Kansas	243,933	212,721	238,049	17,050	15,925	21,427
Kentucky	137,603	130,168	123,997	13,099	8,100	7,365
Louisiana	940,285	1,083,601	1,057,239	97,381	100,159	112,063
Maine	3,744	4,104	3,764	414	248	230
Maryland	139,734	142,079	135,906	10,786	8,597	8,909
Massachusetts	240,275	239,482	209,101	20,621	16,845	18,554
Michigan	687,844	677,317	627,742	58,646	38,968	37,352
Minnesota	234,861	221,706	227,890	21,080	13,409	11,528
Mississippi	166,692	170,796	175,196	16,010	13,570	17,285
Missouri	213,087	182,043	197,589	12,898	9,679	10,669
Montana	35,808	29,766	30,808	3,315	2,318	1,918
Nebraska	97,945	77,811	89,046	6,815	5,097	5,347
Nevada	78,202	57,405	53,862	6,845	6,788	7,418
New Hampshire	13,360	13,669	11,327	986	620	585
New Jersey	447,570	434,519	371,756	32,349	28,472	30,366
New Mexico	85,236	79,483	82,205	6,055	6,523	7,076
New York	760,374	778,923	700,753	60,351	46,090	51,140
North Carolina	145,209	138,882	127,987	11,382	9,767	10,646
North Dakota	21,478	19,273	19,604	1,607	1,173	915
Ohio	634,749	620,429	581,322	54,317	33,331	31,971
Oklahoma	372,598	352,019	379,624	NA	30,127	40,734
Oregon	103,750	91,954	91,197	9,617	8,384	8,799
Pennsylvania	518,825	504,735	472,067	42,809	28,758	28,381
Rhode Island	61,903	64,201	42,450	5,374	4,511	5,344
South Carolina	112,103	110,733	108,258	10,100	8,545	9,812
South Dakota	21,607	17,831	19,246	1,753	1,084	892
Tennessee	185,705	178,795	167,151	14,621	12,487	13,712
Texas	2,911,488	2,573,782	2,626,630	268,332	347,969	322,354
Utah	95,631	82,454	90,058	7,010	5,019	5,324
Vermont	5,813	6,211	5,711	472	282	251
Virginia	187,274	153,983	134,491	13,564	12,276	16,904
Washington	157,498	130,551	133,092	NA	10,742	10,477
West Virginia	85,826	82,715	74,885	7,421	5,385	5,384
Wisconsin	267,695	249,283	248,207	23,342	15,612	13,108
Wyoming	60,101	61,018	42,830	5,322	5,438	4,309
Total	14,832,995	14,311,919	13,920,610	1,310,715	1,198,470	1,204,883

See footnotes at end of tables.

Table 22. Natural Gas Deliveries to All Consumers by State, 1992-1993 (Continued)
(Million Cubic Feet)

State	July 1993	June 1993	May 1993	April 1993	March 1993	February 1993
Alabama	18,003	16,792	18,470	23,361	28,481	27,321
Alaska	10,065	9,176	10,344	11,527	12,263	13,443
Arizona	6,666	5,657	6,603	7,666	11,052	9,239
Arkansas	14,172	12,546	12,998	17,589	21,788	21,311
California	126,878	117,559	112,908	131,584	161,093	189,324
Colorado	12,575	14,790	18,440	24,183	32,278	34,279
Connecticut	4,698	4,901	6,095	10,048	14,381	16,223
Delaware	3,182	2,850	2,632	3,633	4,363	3,818
District of Columbia	1,090	1,265	1,955	3,158	4,982	5,209
Florida	31,533	30,664	28,777	25,794	26,562	25,346
Georgia	21,434	19,583	21,088	27,838	37,618	39,772
Hawaii	220	231	213	225	230	242
Idaho	2,840	3,029	3,530	4,256	5,760	6,353
Illinois	37,522	38,542	48,068	84,599	127,983	138,006
Indiana	24,110	26,165	29,387	42,797	61,168	63,379
Iowa	10,780	11,735	13,485	20,005	27,943	29,976
Kansas	22,714	17,117	19,246	25,517	32,681	34,734
Kentucky	7,260	6,333	8,617	14,102	21,883	24,830
Louisiana	109,821	93,514	79,003	83,399	90,160	84,210
Maine	205	179	226	405	542	643
Maryland	8,909	8,676	9,765	14,160	23,593	23,913
Massachusetts	15,948	16,486	19,701	28,688	36,093	34,489
Michigan	38,414	43,655	52,883	80,931	112,353	116,586
Minnesota	11,217	13,572	15,490	25,245	36,627	40,247
Mississippi	18,709	14,925	14,729	15,877	19,025	17,426
Missouri	9,995	10,290	15,888	24,833	37,569	37,994
Montana	2,030	1,869	2,451	3,752	5,549	5,287
Nebraska	5,435	5,167	6,122	11,692	14,646	15,195
Nevada	7,455	7,057	7,583	8,566	9,222	7,878
New Hampshire	639	749	1,111	1,705	2,245	2,359
New Jersey	36,709	29,678	31,501	50,161	69,160	72,918
New Mexico	6,836	6,571	6,812	9,476	11,053	11,333
New York	56,145	55,263	55,661	87,239	118,222	116,377
North Carolina	9,694	10,613	11,456	16,490	21,815	21,187
North Dakota	1,006	1,179	1,512	2,511	3,383	3,586
Ohio	26,466	39,320	42,332	73,165	108,821	114,755
Oklahoma	37,774	30,976	30,924	36,806	43,651	42,702
Oregon	6,571	6,694	8,225	9,787	14,168	14,890
Pennsylvania	28,273	33,049	35,893	57,915	87,765	90,643
Rhode Island	4,685	4,882	5,487	6,833	8,388	8,381
South Carolina	9,483	9,552	9,259	12,000	15,180	13,789
South Dakota	933	1,054	1,485	2,513	3,492	3,746
Tennessee	12,845	12,962	15,132	19,743	27,608	27,107
Texas	326,750	289,348	243,669	263,722	288,362	265,219
Utah	5,199	5,752	7,800	10,099	14,043	16,641
Vermont	379	380	438	658	976	1,003
Virginia	16,708	12,478	10,309	19,033	27,271	30,286
Washington	10,410	10,932	13,570	16,769	22,830	23,248
West Virginia	5,257	5,833	6,795	9,844	13,771	13,521
Wisconsin	12,127	14,647	17,976	32,018	43,020	44,657
Wyoming	5,184	5,012	6,152	6,462	6,266	7,409
Total	1,203,976	1,143,647	1,150,197	1,520,579	1,969,418	2,012,239

See footnotes at end of tables.

Table 22. Natural Gas Deliveries to All Consumers by State, 1992-1993 (Continued)
(Million Cubic Feet)

State	January 1993	Total 1992	December 1992	November 1992	October 1992	September 1992
Alabama	27,851	247,295	25,675	20,620	17,250	16,309
Alaska	15,106	145,541	14,680	13,463	13,323	9,049
Arizona	11,189	106,234	10,994	5,564	8,668	8,640
Arkansas	23,843	210,653	20,728	15,335	13,222	14,227
California	199,930	1,923,573	199,920	158,481	137,081	147,435
Colorado	39,036	223,656	33,143	19,036	12,212	10,084
Connecticut	14,740	110,715	13,243	9,619	6,718	4,975
Delaware	3,910	39,604	4,005	3,502	2,919	2,629
District of Columbia	5,068	32,690	4,135	2,416	1,395	1,100
Florida	24,221	343,521	23,862	23,814	22,494	31,059
Georgia	39,794	335,464	40,414	31,537	22,635	19,721
Hawaii	236	2,695	234	221	210	221
Idaho	6,799	45,635	6,119	4,415	3,244	2,538
Illinois	151,839	981,991	140,871	104,726	65,944	41,922
Indiana	67,096	478,765	61,989	47,066	33,542	24,622
Iowa	33,211	223,992	30,340	24,125	14,953	11,228
Kansas	37,520	270,284	34,037	23,526	19,422	16,258
Kentucky	24,212	171,218	23,317	17,733	12,206	7,952
Louisiana	90,574	1,271,064	95,726	91,729	94,825	92,270
Maine	652	5,129	561	464	309	249
Maryland	22,426	178,881	20,908	15,894	11,110	8,387
Massachusetts	32,850	293,238	27,879	25,875	18,700	16,790
Michigan	118,057	862,217	103,987	80,909	56,101	37,499
Minnesota	46,446	293,873	40,563	31,602	18,748	12,333
Mississippi	19,136	201,221	16,686	13,740	12,051	15,494
Missouri	43,272	238,435	35,337	21,055	11,679	9,009
Montana	7,319	40,671	6,448	4,455	3,085	2,330
Nebraska	22,429	104,258	15,177	11,269	6,974	5,197
Nevada	9,390	67,912	6,663	3,833	4,579	4,899
New Hampshire	2,361	16,771	1,756	1,346	868	1,161
New Jersey	66,236	542,695	60,941	47,235	34,665	28,937
New Mexico	13,499	98,881	12,300	7,091	6,002	5,851
New York	113,887	952,161	101,107	72,124	56,395	52,470
North Carolina	22,149	173,156	19,783	14,484	11,898	10,047
North Dakota	4,606	25,397	3,592	2,529	1,518	1,057
Ohio	110,270	799,093	102,668	75,938	54,217	33,930
Oklahoma	47,495	425,195	42,892	30,238	26,249	32,711
Oregon	16,613	115,469	13,388	10,121	9,455	8,993
Pennsylvania	85,337	640,593	76,952	58,902	43,339	29,191
Rhode Island	8,017	77,476	7,158	6,108	5,639	4,698
South Carolina	14,382	135,157	12,911	11,513	9,408	9,092
South Dakota	4,666	24,454	3,807	2,810	1,490	918
Tennessee	29,467	225,275	27,075	19,403	14,849	12,760
Texas	295,743	3,101,526	281,632	246,108	242,627	261,956
Utah	18,744	108,755	16,360	9,926	6,188	4,790
Vermont	975	7,598	775	613	561	277
Virginia	28,446	192,932	22,720	16,229	11,255	9,816
Washington	25,468	166,092	20,827	14,620	11,646	9,531
West Virginia	12,615	104,089	12,180	9,194	7,138	5,182
Wisconsin	51,188	327,599	44,320	33,967	22,141	14,068
Wyoming	8,547	75,044	7,758	6,257	5,892	5,517
Total	2,118,873	17,785,833	1,950,542	1,522,779	1,227,238	1,117,381

See footnotes at end of tables.

Table 22. Natural Gas Deliveries to All Consumers by State, 1992-1993 (Continued)
(Million Cubic Feet)

State	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama	15,994	16,511	17,043	18,471	21,138	23,738
Alaska	9,181	10,869	10,355	11,627	12,386	13,093
Arizona	9,178	8,263	7,277	7,670	8,607	10,163
Arkansas	14,288	15,530	15,384	16,961	19,874	19,929
California	160,041	138,193	130,858	157,730	131,762	162,890
Colorado	9,145	10,006	11,545	12,943	19,552	24,198
Connecticut	4,991	5,100	5,480	7,102	10,857	13,813
Delaware	2,825	2,571	2,877	2,935	3,626	3,801
District of Columbia	1,093	1,187	1,394	2,005	3,594	4,304
Florida	30,956	32,201	32,431	31,649	30,622	29,876
Georgia	19,466	20,629	20,062	22,350	26,709	34,065
Hawaii	215	218	230	224	229	222
Idaho	2,171	2,553	2,830	3,178	3,616	4,242
Illinois	36,285	37,000	37,856	55,272	85,166	113,581
Indiana	22,532	22,927	25,135	30,857	40,824	50,877
Iowa	10,838	10,972	11,613	13,137	19,096	22,389
Kansas	17,192	18,403	16,510	18,212	22,495	23,989
Kentucky	8,003	7,213	8,268	9,691	12,836	18,418
Louisiana	103,989	117,997	108,857	109,381	116,654	116,184
Maine	236	264	274	395	545	640
Maryland	8,727	10,535	9,331	11,158	16,084	20,612
Massachusetts	16,884	18,866	19,048	23,079	31,756	30,370
Michigan	37,701	35,356	41,669	58,977	85,208	102,761
Minnesota	11,642	11,892	12,233	16,041	26,087	33,315
Mississippi	14,978	17,272	15,329	17,363	18,727	19,214
Missouri	9,007	9,713	10,600	13,446	21,751	26,101
Montana	1,675	1,761	1,720	2,273	3,182	3,587
Nebraska	5,428	5,483	4,977	5,622	8,555	9,903
Nevada	5,714	5,896	5,514	5,317	5,695	6,139
New Hampshire	759	640	727	1,149	1,817	1,946
New Jersey	30,937	36,695	28,817	34,881	52,289	60,519
New Mexico	6,218	5,700	5,208	6,969	8,639	9,327
New York	51,248	55,424	58,065	69,561	95,837	112,631
North Carolina	9,663	9,704	10,463	12,017	15,528	18,034
North Dakota	866	977	1,029	1,615	2,411	2,818
Ohio	31,699	32,638	36,649	47,271	74,144	92,646
Oklahoma	32,953	34,883	32,332	32,334	36,829	38,920
Oregon	8,391	7,755	6,614	6,215	7,359	8,754
Pennsylvania	27,230	28,178	29,383	39,434	59,291	76,315
Rhode Island	4,667	5,376	5,600	6,217	7,729	7,948
South Carolina	9,051	9,659	9,853	10,294	11,871	14,109
South Dakota	789	912	947	1,444	2,242	2,644
Tennessee	12,672	13,194	12,854	14,348	20,379	21,762
Texas	263,931	268,393	255,732	247,119	248,887	254,408
Utah	4,689	4,871	5,260	5,887	7,978	11,082
Vermont	288	436	435	534	778	930
Virginia	10,424	13,355	9,960	12,766	17,060	20,949
Washington	11,383	8,387	10,143	11,137	13,824	15,652
West Virginia	4,967	4,730	5,554	6,676	10,065	11,262
Wisconsin	12,581	12,191	13,793	19,112	30,455	38,500
Wyoming	5,103	5,432	5,723	5,723	5,997	6,579
Total	1,131,083	1,174,910	1,131,621	1,277,970	1,538,641	1,770,147

R = Revised Data.

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Deliveries for total year 1992 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, 1992-1993
(Dollars per Thousand Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	October 1993	September 1993	August 1993	July 1993	June 1993
Alabama	3.53	3.15	3.10	3.78	4.11	3.96	3.83	3.98
Alaska	.34	.34	.33	.32	.33	.41	.33	.33
Arizona	2.81	2.23	2.48	2.57	3.10	3.07	3.03	2.92
Arkansas	2.60	2.57	2.47	2.78	2.72	2.71	2.49	2.44
California	2.84	2.70	2.75	2.85	3.09	2.78	2.81	2.84
Colorado	2.92	2.89	2.91	3.54	3.13	3.48	3.35	3.59
Connecticut	3.93	3.75	3.54	3.60	3.58	4.90	5.37	4.81
Delaware	3.25	2.65	2.45	3.19	3.56	2.98	3.15	3.52
District of Columbia	---	---	---	---	---	---	---	---
Florida	2.75	2.49	2.47	2.64	2.80	2.76	2.57	2.81
Georgia	3.74	3.24	3.39	3.67	4.58	4.17	4.06	4.25
Hawaii	5.73	7.72	8.73	5.23	5.17	5.18	5.48	5.62
Idaho	2.16	2.26	2.17	2.39	2.46	2.54	2.92	2.39
Illinois	3.33	3.11	2.84	3.00	3.37	3.25	3.28	3.18
Indiana	3.18	3.01	3.01	3.10	3.47	3.55	3.40	3.42
Iowa	3.25	3.15	2.70	3.17	3.80	3.44	3.52	3.60
Kansas	2.79	2.46	2.51	2.71	2.79	2.44	2.74	2.37
Kentucky	3.20	2.93	2.80	3.10	3.25	3.05	3.00	3.43
Louisiana	2.68	2.37	2.58	2.62	2.74	2.74	2.69	2.77
Maine	3.85	3.03	2.90	3.96	4.31	4.20	4.77	4.67
Maryland	3.61	3.15	3.05	3.69	5.01	5.27	5.41	5.85
Massachusetts	4.07	3.40	3.29	3.93	4.37	4.72	4.77	4.81
Michigan	2.89	3.01	3.09	2.78	2.96	2.79	2.60	2.77
Minnesota	3.08	2.78	2.59	2.84	3.41	3.39	3.48	3.46
Mississippi	2.83	2.50	2.53	2.96	3.42	3.00	2.89	3.00
Missouri	3.26	2.84	2.89	3.37	3.88	3.79	3.63	3.81
Montana	3.29	3.70	3.76	3.21	4.01	4.53	4.44	4.47
Nebraska	3.31	2.83	2.75	4.28	6.24	3.51	3.37	3.49
Nevada	3.10	2.36	2.36	3.72	4.49	4.75	3.74	3.55
New Hampshire	3.77	3.47	3.29	3.66	4.37	4.40	4.55	4.46
New Jersey	3.55	3.17	3.14	3.40	3.84	4.30	4.69	4.18
New Mexico	2.43	2.11	2.55	2.36	2.23	2.10	1.86	2.36
New York	3.33	2.91	2.89	3.44	3.66	3.25	3.49	3.73
North Carolina	3.19	2.76	2.67	2.88	3.52	3.53	3.74	3.57
North Dakota	3.33	3.37	3.53	3.20	3.66	4.45	4.57	4.21
Ohio	3.58	3.14	3.04	3.04	3.76	3.85	3.82	4.23
Oklahoma	2.37	2.12	1.97	2.43	2.40	2.00	1.80	2.10
Oregon	2.38	2.32	2.37	2.65	2.52	2.61	2.51	2.83
Pennsylvania	3.47	3.23	3.34	3.46	4.51	4.43	3.97	4.70
Rhode Island	4.46	3.77	3.66	4.78	7.37	6.64	7.73	6.17
South Carolina	3.57	3.12	2.89	3.49	4.02	4.18	4.25	3.93
South Dakota	3.38	3.03	3.16	3.19	3.61	4.69	4.42	4.31
Tennessee	3.19	2.76	2.68	3.39	3.70	3.38	3.34	3.39
Texas	3.24	2.92	2.83	3.21	3.39	3.16	3.04	3.14
Utah	2.78	4.45	4.10	1.53	2.20	2.30	2.89	2.71
Vermont	3.04	2.98	2.87	2.98	3.80	4.38	3.78	3.99
Virginia	3.28	2.73	2.89	3.16	3.41	3.41	3.29	3.43
Washington	2.25	1.83	1.87	NA	2.89	2.35	2.37	2.56
West Virginia	3.25	3.13	3.56	3.76	5.68	6.82	5.73	4.77
Wisconsin	3.82	3.38	3.17	3.99	5.25	6.22	5.71	5.85
Wyoming	2.82	3.02	3.15	2.51	2.49	2.86	3.05	3.04
Total	3.21	2.94	2.88	3.15	3.52	3.35	3.34	3.44

See footnotes at end of table.

Table 23. Average City Gate Price by State, 1992-1993 (Continued)
(Dollars per Thousand Cubic Feet)

State	May 1993	April 1993	March 1993	February 1993	January 1993	Total 1992	December 1992	November 1992
Alabama	3.88	3.38	3.16	3.37	3.33	3.21	3.43	3.44
Alaska	.33	.33	.33	.33	.33	.34	.33	.33
Arizona	3.23	2.00	2.50	2.28	2.83	2.33	2.55	2.89
Arkansas	2.65	2.60	2.63	2.45	2.62	2.60	2.64	2.71
California	2.97	2.86	2.90	2.69	2.74	2.72	2.75	2.91
Colorado	3.02	2.78	2.57	2.67	2.80	2.86	2.81	2.74
Connecticut	5.51	4.32	3.31	3.27	3.70	3.73	3.59	3.80
Delaware	3.52	3.33	3.22	3.03	3.13	2.83	3.53	3.93
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.89	2.90	2.64	2.63	2.90	2.61	3.07	3.19
Georgia	4.62	3.44	3.25	3.48	3.79	3.28	3.51	3.27
Hawaii	5.72	5.69	5.46	7.01	6.49	7.72	7.59	7.81
Idaho	2.24	1.89	2.12	1.97	2.03	2.18	2.06	1.99
Illinois	3.40	3.43	3.26	3.48	3.75	3.20	3.53	3.47
Indiana	3.74	3.14	2.91	2.83	3.04	3.08	3.26	3.33
Iowa	4.28	3.55	2.94	2.81	3.02	3.20	3.21	3.44
Kansas	2.48	2.54	3.18	2.66	3.06	2.50	2.48	2.79
Kentucky	3.94	3.26	3.24	3.10	3.13	3.02	3.26	3.26
Louisiana	3.23	2.78	2.59	2.38	2.59	2.48	2.82	2.83
Maine	3.67	3.31	3.66	3.53	3.69	3.17	4.00	3.41
Maryland	4.98	3.80	2.90	2.89	3.02	3.20	3.17	3.66
Massachusetts	4.42	3.92	3.94	3.53	3.81	3.52	3.89	3.95
Michigan	3.17	2.82	2.84	2.90	3.43	3.04	3.16	3.33
Minnesota	3.82	2.98	2.94	2.78	2.97	2.92	3.32	3.31
Mississippi	3.41	2.89	2.61	2.44	2.62	2.62	2.97	3.07
Missouri	3.89	2.91	2.96	2.87	3.37	2.86	2.78	3.16
Montana	4.11	3.16	2.92	2.96	2.98	3.45	2.91	3.01
Nebraska	3.94	3.19	2.78	2.78	2.92	2.91	3.09	3.15
Nevada	3.73	3.29	2.66	2.36	2.57	2.37	2.40	2.43
New Hampshire	3.86	3.42	3.68	3.30	3.78	3.58	3.96	4.02
New Jersey	4.26	3.44	3.27	2.82	3.32	3.29	3.32	4.32
New Mexico	2.71	3.04	2.54	2.34	2.45	2.25	2.55	2.86
New York	4.08	3.84	3.11	2.91	3.10	3.01	3.34	3.47
North Carolina	3.65	3.24	3.01	2.83	3.09	2.88	3.22	3.32
North Dakota	4.05	3.24	3.01	2.97	3.11	3.28	3.06	3.09
Ohio	4.27	4.28	3.44	3.43	3.40	3.26	3.69	3.51
Oklahoma	2.54	2.26	2.44	2.40	2.50	2.22	2.36	2.52
Oregon	2.74	2.18	2.16	2.26	2.22	2.34	2.39	2.36
Pennsylvania	4.19	3.57	3.15	2.93	3.02	3.29	3.37	3.61
Rhode Island	6.59	4.09	3.34	3.12	3.57	3.82	3.67	4.49
South Carolina	4.20	3.48	3.09	3.27	3.39	3.23	3.56	3.56
South Dakota	4.31	3.36	3.12	2.98	3.07	3.10	3.29	3.18
Tennessee	3.80	3.29	3.07	2.81	2.95	2.89	3.20	3.40
Texas	3.36	3.09	3.16	3.21	3.44	3.06	3.47	3.47
Utah	5.61	3.74	3.49	2.89	2.94	4.09	3.00	3.95
Vermont	3.85	3.03	2.57	2.53	2.52	2.93	2.60	2.86
Virginia	3.73	3.36	3.14	3.18	3.24	2.91	3.32	3.83
Washington	2.52	1.85	2.06	2.11	2.18	1.90	2.16	1.98
West Virginia	1.94	3.32	2.94	2.94	2.96	3.24	3.36	3.99
Wisconsin	5.43	3.86	3.15	2.95	3.06	3.36	3.17	3.48
Wyoming	3.77	3.07	2.89	2.63	2.71	2.90	2.69	2.55
Total	3.58	3.24	3.06	2.94	3.11	3.01	3.17	3.33

See footnotes at end of table.

Table 23. Average City Gate Price by State, 1992-1993 (Continued)
(Dollars per Thousand Cubic Feet)

State	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama	3.91	3.67	3.65	3.25	3.28	3.01	2.80	2.68
Alaska	.33	.33	.34	.33	.33	.33	.33	.34
Arizona	2.64	2.45	2.43	2.70	2.31	1.57	1.98	2.12
Arkansas	2.49	2.41	2.38	2.41	2.53	2.43	2.38	2.62
California	2.92	2.80	2.82	2.73	2.59	2.47	2.88	2.37
Colorado	2.98	3.67	3.61	3.32	3.23	3.45	2.75	2.67
Connecticut	4.02	4.13	4.23	4.12	4.96	4.76	3.75	3.18
Delaware	3.74	2.74	1.78	2.72	2.90	2.59	2.55	2.62
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.16	2.64	2.58	2.41	2.37	2.29	2.39	2.34
Georgia	3.93	3.70	3.55	3.10	3.21	2.90	2.57	2.61
Hawaii	8.17	7.87	8.27	8.08	7.55	7.60	7.64	7.40
Idaho	2.37	2.47	3.61	2.52	2.57	2.55	1.94	2.28
Illinois	3.60	3.36	3.19	3.08	2.89	2.72	2.97	2.71
Indiana	3.69	3.03	3.52	2.97	3.16	2.71	2.57	2.75
Iowa	3.97	3.89	3.86	4.16	4.12	3.77	2.48	2.72
Kansas	2.33	2.31	2.49	2.30	2.07	2.32	2.28	2.09
Kentucky	3.53	2.76	2.74	2.57	2.98	2.89	2.89	2.85
Louisiana	3.24	2.70	2.60	2.26	2.30	2.42	2.25	2.06
Maine	3.45	2.80	4.1 ^a	2.72	2.82	2.66	2.44	2.59
Maryland	3.91	4.58	4.83	5.04	4.46	3.71	2.88	2.45
Massachusetts	3.88	3.40	3.24	3.35	3.77	3.66	2.91	2.97
Michigan	3.31	3.02	2.95	2.78	2.82	2.89	2.93	3.19
Minnesota	3.57	3.28	3.34	3.12	3.25	3.02	2.26	2.47
Mississippi	3.59	2.99	2.81	2.39	2.59	2.50	2.32	2.14
Missouri	3.56	3.52	3.39	2.74	3.20	2.85	2.60	2.59
Montana	3.19	3.85	4.38	4.80	4.51	4.03	3.63	3.58
Nebraska	3.55	3.47	3.23	3.18	3.28	3.07	2.47	2.46
Nevada	2.45	2.67	2.92	2.72	2.68	2.85	2.09	2.20
New Hampshire	3.70	3.16	3.83	3.27	3.62	3.31	2.92	2.93
New Jersey	3.95	3.97	3.38	3.40	3.17	3.19	2.66	2.58
New Mexico	2.99	2.30	2.13	2.09	2.48	2.09	2.40	1.82
New York	3.75	3.37	3.15	2.92	3.11	2.91	2.67	2.57
North Carolina	3.38	3.26	3.04	3.13	3.13	2.85	2.56	2.18
North Dakota	3.16	3.38	3.79	4.16	3.55	3.36	3.21	3.20
Ohio	3.84	3.60	3.71	3.72	3.43	3.35	2.96	2.87
Oklahoma	2.44	1.84	1.79	1.82	1.88	2.97	2.11	2.06
Oregon	2.35	2.27	2.41	2.25	2.14	2.59	2.22	2.35
Pennsylvania	3.82	4.20	4.32	3.92	4.01	3.62	3.06	2.77
Rhode Island	4.45	4.58	4.87	4.26	4.21	3.99	3.38	3.06
South Carolina	3.74	3.48	3.38	3.22	3.10	2.93	2.75	2.70
South Dakota	2.83	3.25	4.09	3.91	3.68	3.42	2.42	2.98
Tennessee	3.66	3.41	3.41	2.94	3.09	3.01	2.68	2.36
Texas	3.61	3.01	2.94	2.71	2.78	2.85	2.83	2.77
Utah	4.71	9.36	7.45	7.72	7.48	8.05	5.26	4.17
Vermont	2.95	4.06	4.17	3.25	3.25	3.04	2.76	2.65
Virginia	3.70	3.26	3.63	2.87	2.69	2.80	2.33	2.14
Washington	2.00	1.99	1.93	1.96	1.87	1.84	1.63	1.80
West Virginia	4.59	6.20	5.74	7.91	4.36	4.05	2.29	1.93
Wisconsin	3.97	4.47	4.94	4.76	3.84	3.45	3.12	3.03
Wyoming	2.66	3.01	3.32	3.36	3.63	3.43	3.23	2.83
Total	3.50	3.23	3.18	3.01	3.00	2.90	2.74	2.61

^{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, 1992-1993
(Dollars per Thousand Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	October 1993	September 1993	August 1993	July 1993	June 1993
Alabama	7.10	6.75	7.21	9.62	9.94	9.90	9.81	9.36
Alaska	3.98	3.81	4.31	4.00	4.32	4.50	4.47	4.25
Arizona	7.30	7.38	7.06	9.38	9.74	9.94	9.50	8.92
Arkansas	5.38	5.15	5.02	6.73	7.58	7.29	7.14	6.65
California	6.21	6.04	6.32	6.68	6.67	6.61	6.61	6.58
Colorado	4.46	4.66	4.63	4.97	5.51	6.01	5.62	5.06
Connecticut	9.47	9.32	8.79	9.86	11.43	11.59	11.37	10.89
Delaware	6.52	6.09	5.90	7.85	8.68	8.80	8.66	8.25
District of Columbia	8.44	7.39	7.08	9.20	9.92	8.68	8.17	8.28
Florida	10.48	9.05	9.13	12.32	12.50	12.81	12.62	12.39
Georgia	6.92	6.54	6.94	7.76	9.32	9.43	9.06	8.91
Hawaii	17.60	18.00	22.95	17.61	17.84	18.43	17.97	17.57
Idaho	5.30	5.33	5.23	6.28	6.54	6.81	6.30	5.99
Illinois	5.61	5.03	5.13	6.12	7.16	8.26	7.88	7.64
Indiana	5.94	5.44	5.67	6.03	7.60	8.39	8.49	7.81
Iowa	5.86	5.16	4.82	6.59	8.64	8.69	9.13	7.27
Kansas	4.78	4.76	4.42	6.04	6.55	6.49	6.12	6.28
Kentucky	5.34	4.98	4.96	5.65	7.52	7.68	7.44	6.78
Louisiana	5.93	5.48	5.79	7.89	8.11	8.06	7.26	7.29
Maine	7.35	6.92	6.83	7.52	8.55	9.05	8.88	8.29
Maryland	7.25	6.29	6.23	8.07	9.11	9.65	9.65	9.09
Massachusetts	8.14	7.76	7.99	7.55	8.33	8.56	8.01	7.52
Michigan	4.87	5.13	5.17	5.33	6.35	7.21	6.69	6.10
Minnesota	5.38	4.69	4.45	5.66	6.46	7.36	6.29	6.13
Mississippi	4.86	4.86	5.31	6.20	5.70	5.58	5.55	5.49
Missouri	5.25	5.09	5.26	6.86	8.14	8.42	7.96	7.42
Montana	4.93	4.86	4.56	5.29	5.71	5.95	5.64	5.65
Nebraska	4.93	4.75	4.64	5.70	6.40	6.71	6.45	5.99
Nevada	5.59	5.72	5.68	6.80	7.16	7.32	7.07	6.50
New Hampshire	7.40	7.32	7.11	7.09	8.45	9.29	8.60	7.53
New Jersey	6.88	6.96	6.93	7.38	8.58	8.85	8.64	8.23
New Mexico	5.53	4.75	5.57	7.63	8.07	8.00	7.99	7.71
New York	8.13	7.44	7.37	8.57	11.03	11.58	11.10	9.96
North Carolina	6.97	6.53	6.20	8.56	10.54	10.91	10.49	9.57
North Dakota	5.22	5.03	4.83	6.04	6.92	7.38	6.83	6.38
Ohio	5.70	5.13	5.37	6.19	7.49	7.79	7.39	6.50
Oklahoma	5.04	5.06	4.78	6.61	7.33	7.51	7.15	6.55
Oregon	6.32	6.24	6.17	7.15	7.99	8.02	7.78	7.44
Pennsylvania	6.83	6.71	6.87	7.42	8.92	9.54	9.47	8.20
Rhode Island	8.12	7.67	7.65	8.98	10.09	10.09	9.72	9.47
South Carolina	7.34	7.03	7.06	8.03	9.07	9.15	8.93	8.47
South Dakota	5.48	5.07	4.93	5.86	7.29	7.09	6.65	6.13
Tennessee	5.77	5.49	5.22	6.87	7.33	7.60	7.38	7.01
Texas	6.01	5.89	5.85	7.21	8.05	7.78	7.54	7.20
Utah	5.15	5.52	5.56	5.04	5.70	5.84	5.60	5.40
Vermont	6.16	6.75	6.19	6.88	7.96	7.81	7.60	6.91
Virginia	7.79	6.57	6.90	9.26	10.81	11.04	11.17	10.71
Washington	5.09	5.11	4.72	NA	7.01	7.24	6.76	3.75
West Virginia	6.35	6.14	6.64	6.66	8.24	8.75	9.35	7.63
Wisconsin	6.32	5.79	5.58	6.83	7.44	7.73	7.61	7.29
Wyoming	4.67	4.80	4.79	5.19	5.76	5.96	5.58	4.91
Total	6.16	5.90	5.92	6.75	7.74	8.10	7.83	7.32

See footnotes at end of table.

Table 24. Average Price of Natural Gas Delivered to Residential Consumers by State, 1992-1993 (Continued)
(Dollars per Thousand Cubic Feet)

State	May 1993	April 1993	March 1993	February 1993	January 1993	Total 1992	December 1992	November 1992
Alabama	7.74	6.59	6.15	6.49	6.53	6.74	6.42	7.36
Alaska	4.05	3.93	3.90	3.82	3.83	3.79	3.70	3.74
Arizona	8.23	7.31	6.68	6.50	6.36	7.24	6.55	7.59
Arkansas	5.76	5.12	5.04	5.02	4.77	5.10	4.73	5.30
California	6.10	5.71	5.87	6.02	6.20	5.97	5.80	5.60
Colorado	4.56	4.36	4.21	4.17	4.13	4.56	4.17	4.50
Connecticut	10.35	9.59	9.03	8.79	8.99	8.96	7.68	7.84
Delaware	7.09	6.25	6.01	6.05	6.09	6.13	6.22	6.44
District of Columbia	8.70	8.27	8.22	8.33	8.45	7.61	8.30	8.58
Florida	11.42	9.83	9.27	9.23	9.07	9.08	8.63	10.20
Georgia	8.08	6.49	6.13	6.18	6.51	6.44	6.11	6.33
Hawaii	17.86	17.70	17.20	16.50	17.62	18.03	18.05	18.42
Idaho	5.49	5.30	5.02	4.98	4.93	5.23	4.89	5.24
Illinois	6.98	5.63	4.88	5.02	5.08	5.09	5.14	5.42
Indiana	6.81	5.94	5.36	5.43	5.58	5.43	5.54	5.17
Iowa	7.04	5.92	5.27	4.94	5.34	5.23	5.29	5.62
Kansas	5.26	4.58	4.43	4.41	4.37	4.70	4.45	4.71
Kentucky	6.72	5.28	4.83	4.72	5.08	5.01	5.04	5.14
Louisiana	6.98	5.67	5.30	4.71	5.44	5.60	5.73	6.61
Maine	8.11	7.51	7.11	6.89	6.75	6.95	7.12	6.89
Maryland	8.05	7.02	6.43	6.66	6.88	6.43	6.99	6.81
Massachusetts	6.85	6.54	6.33	6.28	6.27	7.92	8.55	8.61
Michigan	5.37	4.67	4.46	4.42	4.43	5.06	4.73	4.98
Minnesota	6.10	5.35	5.03	4.95	5.13	4.86	5.19	5.43
Mississippi	5.76	4.66	4.36	4.44	4.80	4.95	5.05	5.70
Missouri	5.82	4.91	4.62	4.67	4.72	5.11	4.93	5.57
Montana	5.16	4.85	4.68	4.73	4.55	4.80	4.61	4.77
Nebraska	5.51	4.77	4.51	4.55	4.72	4.82	4.90	5.15
Nevada	6.01	5.54	5.23	5.06	4.96	5.59	5.03	5.68
New Hampshire	6.59	5.91	7.66	7.48	7.86	7.55	8.00	9.10
New Jersey	7.67	6.93	6.33	6.34	6.49	6.94	6.80	6.99
New Mexico	6.40	5.59	4.90	4.80	4.50	4.75	4.58	5.17
New York	9.29	7.81	7.24	7.30	7.67	7.58	7.74	8.68
North Carolina	7.71	6.33	6.08	6.58	6.76	6.60	6.66	7.12
North Dakota	5.60	5.06	4.84	4.82	4.71	5.00	4.85	4.98
Ohio	5.97	5.49	5.31	5.43	5.33	5.20	5.38	5.52
Oklahoma	5.64	4.76	4.52	4.56	4.57	4.96	4.57	4.82
Oregon	6.55	6.14	5.99	5.95	5.90	6.17	5.92	6.16
Pennsylvania	7.64	6.69	6.35	6.34	6.18	6.60	6.18	6.36
Rhode Island	8.49	7.85	7.67	7.64	7.69	7.68	7.62	7.85
South Carolina	7.34	6.56	6.78	7.31	7.69	7.03	6.86	7.39
South Dakota	5.89	5.38	5.15	5.12	5.13	5.15	5.30	5.37
Tennessee	6.23	5.47	5.20	5.83	5.45	5.50	5.34	5.93
Texas	6.76	5.78	5.32	5.52	5.26	5.78	5.14	6.02
Utah	4.82	4.89	5.15	5.08	5.14	5.44	5.21	5.15
Vermont	6.46	6.08	5.94	5.96	5.59	6.70	6.36	6.73
Virginia	6.30	7.49	6.79	7.18	7.14	6.69	7.10	7.05
Washington	5.37	5.03	4.80	4.76	4.59	5.00	4.60	4.94
West Virginia	6.88	6.18	5.97	5.93	6.00	6.31	7.60	6.12
Wisconsin	7.36	6.15	5.96	5.94	5.91	5.87	5.96	6.27
Wyoming	4.69	4.54	4.44	4.43	4.36	4.72	4.41	4.64
Total	6.72	5.99	5.66	5.71	5.71	5.89	5.74	6.02

See footnotes at end of table.

Table 24. Average Price of Natural Gas Delivered to Residential Consumers by State, 1992-1993 (Continued)
(Dollars per Thousand Cubic Feet)

State	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama	8.36	8.94	9.06	8.93	8.00	6.98	6.24	6.67
Alaska	3.79	4.02	4.54	4.20	4.03	3.83	3.75	3.69
Arizona	9.19	9.64	9.87	9.54	9.02	8.53	7.43	6.84
Arkansas	6.39	6.86	6.83	6.46	6.16	5.53	4.97	4.87
California	6.35	6.29	6.21	6.27	6.28	5.99	5.52	5.76
Colorado	5.37	5.89	6.06	5.78	5.25	4.96	4.52	4.38
Connecticut	8.41	10.66	11.20	10.67	10.54	9.84	9.05	8.89
Delaware	7.20	8.05	8.08	7.94	7.39	6.51	5.98	5.80
District of Columbia	9.13	9.18	7.36	6.77	7.22	7.95	7.08	7.23
Florida	11.36	11.48	11.26	10.99	10.69	9.80	8.66	8.48
Georgia	7.64	3.87	8.38	8.30	7.88	6.96	6.29	6.25
Hawaii	18.60	18.46	18.52	18.19	17.71	18.04	17.07	17.48
Idaho	5.62	6.00	6.61	6.22	6.17	5.56	5.42	5.30
Illinois	5.60	6.37	6.87	6.91	6.45	5.52	4.68	4.33
Indiana	5.44	6.85	6.97	6.87	6.42	5.93	5.30	4.79
Iowa	6.90	7.66	7.89	7.56	6.71	5.67	4.68	4.44
Kansas	5.32	5.81	5.92	5.95	5.40	5.11	4.59	4.57
Kentucky	6.34	6.96	6.42	6.25	5.79	4.98	4.69	4.54
Louisiana	7.87	7.34	7.41	7.06	6.78	6.27	4.85	5.09
Maine	6.77	7.12	7.65	7.51	6.76	6.78	7.08	6.90
Maryland	7.43	8.80	8.51	8.17	7.58	6.26	5.40	5.66
Massachusetts	6.74	7.70	7.79	7.61	6.95	6.12	8.32	8.05
Michigan	5.39	6.45	6.71	6.58	6.02	5.28	4.89	4.83
Minnesota	6.04	5.93	5.98	5.56	5.51	4.85	4.34	4.17
Mississippi	6.25	5.75	5.84	5.64	5.51	5.45	4.62	4.52
Missouri	6.59	7.23	7.40	6.99	6.24	5.32	4.60	4.60
Montana	5.14	5.45	6.02	5.78	5.57	5.06	4.73	4.66
Nebraska	5.78	6.16	6.24	5.90	5.47	4.91	4.41	4.26
Nevada	6.76	7.06	7.37	6.89	6.81	6.41	5.68	5.29
New Hampshire	8.09	8.97	9.16	9.09	8.58	7.83	6.94	6.98
New Jersey	7.23	8.50	8.77	8.68	8.41	7.46	6.71	6.04
New Mexico	6.44	6.81	6.88	6.63	6.04	5.35	4.50	4.27
New York	8.62	9.92	10.28	9.70	8.70	7.40	6.79	6.89
North Carolina	7.72	10.03	10.51	9.89	8.24	6.74	5.54	6.03
North Dakota	5.64	6.26	6.75	6.33	6.04	5.21	4.78	4.69
Ohio	5.76	6.51	6.98	6.27	5.92	5.27	4.83	4.80
Oklahoma	6.14	6.71	6.84	6.59	6.29	5.67	4.96	4.79
Oregon	6.66	7.27	7.64	7.32	6.96	6.48	6.21	6.03
Pennsylvania	6.87	8.34	8.98	8.94	8.14	7.20	6.55	6.30
Rhode Island	8.28	9.00	9.53	8.71	8.45	7.77	7.45	7.36
South Carolina	7.17	8.45	8.61	8.37	7.67	6.68	6.27	7.44
South Dakota	6.09	6.36	6.67	6.31	6.04	4.64	4.78	4.60
Tennessee	6.29	7.02	7.14	6.81	6.38	5.72	5.19	5.47
Texas	7.32	7.48	7.62	7.42	7.16	6.92	6.06	5.52
Utah	5.35	5.87	5.95	5.86	5.80	5.48	5.50	5.64
Vermont	7.14	8.02	8.42	8.22	7.78	7.05	6.68	6.59
Virginia	7.93	9.83	9.16	8.97	7.84	6.61	5.62	5.68
Washington	5.57	6.35	7.05	7.17	6.24	5.46	5.00	4.81
West Virginia	6.48	7.83	8.41	8.32	7.23	6.39	5.93	5.87
Wisconsin	6.68	6.89	6.90	6.50	6.40	5.67	5.44	5.46
Wyoming	5.09	5.57	5.96	5.89	5.28	4.96	4.64	4.55
Total	6.52	7.15	7.45	7.27	6.84	6.15	5.62	5.50

NA = Not Available.

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.

Source: Form EIA-857.

Table 25. Average Price of Natural Gas Sold to Commercial Consumers by State, 1992-1993
(Dollars per Thousand Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	October 1993	September 1993	August 1993	July 1993	June 1993
Alabama	6.11	5.65	5.81	6.75	6.84	6.75	6.86	6.74
Alaska	2.77	2.63	2.96	2.70	2.64	2.54	2.61	2.67
Arizona	5.03	5.21	5.06	5.36	5.16	5.00	4.86	4.82
Arkansas	4.43	4.38	4.35	4.91	5.00	4.68	4.77	4.96
California	5.59	5.04	5.40	4.43	5.20	5.95	4.63	5.83
Colorado	3.85	4.05	4.05	4.03	3.90	4.04	4.08	3.95
Connecticut	7.25	7.30	6.88	6.77	7.42	7.26	7.31	6.97
Delaware	5.35	4.89	4.86	5.59	6.00	5.64	5.64	7.75
District of Columbia	5.79	5.23	5.17	5.05	5.82	5.56	5.47	5.59
Florida	5.75	4.90	4.88	5.65	5.54	5.52	5.82	5.98
Georgia	5.79	5.49	5.74	6.09	6.26	6.12	5.78	6.13
Hawaii	12.97	13.28	13.42	12.84	12.86	13.08	13.23	12.92
Idaho	4.53	4.43	4.42	5.21	5.21	5.16	4.93	4.65
Illinois	5.15	4.54	4.69	5.51	5.82	6.55	6.01	6.80
Indiana	5.01	4.53	4.74	5.03	5.59	5.80	6.33	5.99
Iowa	4.82	4.14	3.92	5.17	5.87	5.33	5.66	5.07
Kansas	4.00	3.44	3.28	4.28	3.81	3.44	3.41	4.14
Kentucky	4.75	4.36	4.46	4.90	5.51	5.11	5.27	3.98
Louisiana	5.18	4.63	4.88	5.88	5.67	5.66	5.39	5.46
Maine	6.59	6.15	5.94	6.49	6.81	6.42	6.96	6.84
Maryland	5.82	5.06	5.06	6.24	5.81	6.07	6.13	5.99
Massachusetts	6.25	5.65	5.99	4.63	4.48	4.45	4.36	4.58
Michigan	4.51	4.68	4.75	4.94	5.48	5.75	5.57	5.29
Minnesota	4.57	3.92	3.72	4.42	4.81	5.20	4.56	4.71
Mississippi	4.10	4.02	4.31	4.45	4.22	3.95	3.94	4.00
Missouri	4.68	4.38	4.55	5.17	5.37	5.16	5.18	5.30
Montana	4.73	4.48	4.34	4.86	5.09	5.14	5.07	5.12
Nebraska	4.29	3.89	3.83	4.22	4.80	4.19	4.55	4.13
Nevada	4.32	4.34	4.34	4.41	4.42	4.42	4.42	4.41
New Hampshire	6.56	6.59	6.30	5.96	6.12	6.20	6.21	6.04
New Jersey	5.36	5.45	5.32	5.17	5.18	5.44	4.95	5.16
New Mexico	4.24	3.32	4.24	4.72	4.61	4.34	4.42	4.79
New York	6.06	5.60	5.45	5.89	5.83	5.89	6.11	6.63
North Carolina	5.49	4.62	4.43	5.67	5.48	5.68	5.79	5.77
North Dakota	4.78	4.48	4.28	5.24	5.51	5.61	5.45	5.37
Ohio	5.20	4.59	4.81	5.55	5.90	5.96	5.65	5.89
Oklahoma	4.53	4.18	3.90	4.53	4.64	4.48	4.76	4.66
Oregon	4.94	4.74	4.77	5.27	5.38	5.53	5.43	5.29
Pennsylvania	5.97	5.95	6.08	6.04	6.50	6.88	6.89	6.52
Rhode Island	7.03	6.18	5.86	6.62	7.00	6.64	7.26	7.55
South Carolina	5.76	5.54	5.59	5.35	5.32	5.43	5.41	5.46
South Dakota	4.55	4.10	4.00	4.56	5.76	4.82	4.72	4.61
Tennessee	5.15	4.99	4.74	5.20	5.24	5.30	5.30	5.50
Texas	4.29	3.98	3.95	4.66	4.41	3.82	3.79	3.85
Utah	4.15	4.45	4.51	3.93	4.23	4.32	4.19	4.18
Vermont	5.30	5.71	5.25	4.92	5.11	5.69	5.75	5.73
Virginia	5.62	4.82	4.82	5.63	5.72	6.14	5.95	6.01
Washington	4.50	4.40	4.05	NA	4.98	5.00	4.80	4.66
West Virginia	5.94	5.51	6.24	5.93	6.95	7.25	7.52	7.01
Wisconsin	4.93	4.72	4.61	5.27	5.52	5.34	5.20	5.20
Wyoming	4.20	4.27	4.31	4.16	4.49	4.28	4.33	4.51
Total	5.14	4.81	4.82	5.12	5.27	5.26	5.03	5.31

See footnotes at end of table

Table 25. Average Price of Natural Gas Sold to Commercial Consumers by State, 1992-1993 (Continued)
(Dollars per Thousand Cubic Feet)

State	May 1993	April 1993	March 1993	February 1993	January 1993	Total 1992	December 1992	November 1992
Alabama	6.33	5.83	5.69	5.89	5.92	5.71	5.90	6.10
Alaska	2.73	2.83	2.79	2.92	2.89	2.64	2.68	2.67
Arizona	5.03	5.03	5.06	5.00	5.02	5.20	5.09	5.22
Arkansas	4.41	4.35	4.32	4.33	4.20	4.38	4.35	4.47
California	5.24	5.50	6.19	5.43	6.93	5.15	5.73	5.45
Colorado	3.87	3.82	3.82	3.81	3.75	4.00	3.84	3.91
Connecticut	7.19	7.36	7.35	7.22	7.33	7.20	6.88	6.80
Delaware	5.46	5.19	5.11	5.12	5.17	4.94	5.18	5.07
District of Columbia	5.60	5.72	6.08	5.99	5.95	5.36	5.95	5.90
Florida	6.01	5.87	5.94	5.90	5.20	4.98	5.36	5.35
Georgia	6.14	5.60	5.21	5.79	5.92	5.55	5.62	6.03
Hawaii	13.27	13.18	12.79	12.40	13.17	13.34	13.57	13.71
Idaho	4.65	4.60	4.36	4.26	4.33	4.40	4.22	4.50
Illinois	6.01	5.26	4.65	4.83	4.91	4.65	4.88	4.93
Indiana	5.29	4.99	4.62	4.81	4.95	4.57	4.85	4.34
Iowa	5.48	5.03	4.64	4.23	4.73	4.27	4.58	4.54
Kansas	4.24	4.12	4.11	4.09	4.09	3.53	3.98	3.68
Kentucky	5.00	4.62	4.60	4.59	4.91	4.47	4.78	4.77
Louisiana	5.43	5.05	4.91	4.55	5.11	4.79	5.39	5.54
Maine	6.81	6.77	6.77	6.45	6.30	6.19	6.46	6.14
Maryland	5.91	5.68	5.57	5.77	5.85	5.24	5.89	5.73
Massachusetts	4.72	7.02	7.20	7.38	7.21	5.86	7.00	6.40
Michigan	4.77	4.35	4.27	4.27	4.32	4.65	4.49	4.63
Minnesota	5.11	4.70	4.43	4.32	4.60	4.10	4.59	4.61
Mississippi	4.54	4.06	3.93	3.93	4.25	4.13	4.53	4.51
Missouri	4.73	4.48	4.47	4.54	4.60	4.47	4.68	4.86
Montana	4.79	4.65	4.61	4.66	4.56	4.46	4.39	4.46
Nebraska	4.58	4.24	4.16	4.20	4.34	3.99	4.31	4.27
Nevada	4.15	4.30	4.30	4.31	4.28	4.33	4.26	4.31
New Hampshire	5.78	5.61	7.14	6.92	6.99	6.74	7.18	7.43
New Jersey	5.29	5.25	5.41	5.42	5.64	5.54	5.75	6.02
New Mexico	4.52	4.38	4.07	4.03	3.89	3.36	3.66	3.32
New York	7.12	6.27	5.73	5.85	6.10	5.75	6.26	6.44
North Carolina	5.44	5.15	5.31	5.51	5.66	4.79	5.38	5.31
North Dakota	5.04	4.75	4.61	4.54	4.55	4.52	4.59	4.68
Ohio	5.10	5.13	4.97	5.16	5.03	4.72	5.15	5.08
Oklahoma	4.44	4.51	4.48	4.52	4.55	4.23	4.45	4.22
Oregon	4.97	4.77	4.75	4.79	4.78	4.73	4.72	4.69
Pennsylvania	6.43	6.07	5.81	5.79	5.60	5.87	5.59	5.67
Rhode Island	7.48	7.01	6.94	6.95	7.21	6.31	6.95	6.99
South Carolina	5.49	5.67	5.85	6.12	6.22	5.65	6.02	6.08
South Dakota	5.21	4.52	4.34	4.31	4.43	4.19	4.44	4.45
Tennessee	5.12	4.95	4.96	5.13	5.31	5.06	5.25	5.35
Texas	4.07	4.12	4.34	4.74	4.73	4.09	4.54	4.45
Utah	3.82	3.96	4.23	4.19	4.26	4.40	4.27	4.20
Vermont	5.54	5.32	5.36	5.35	5.05	5.67	5.49	5.55
Virginia	5.61	5.62	5.26	5.61	5.66	4.97	5.66	5.27
Washington	4.52	4.34	4.33	4.36	4.28	4.32	3.85	4.44
West Virginia	6.41	5.84	5.67	5.67	5.69	5.48	5.30	5.45
Wisconsin	5.53	4.93	4.74	4.71	4.77	4.81	4.94	5.21
Wyoming	4.18	4.15	4.15	4.16	4.12	4.26	4.21	4.28
Total	5.21	5.13	5.06	5.08	5.18	4.88	5.11	5.12

See footnotes at end of table

Table 25. Average Price of Natural Gas Sold to Commercial Consumers by State, 1992-1993 (Continued)
(Dollars per Thousand Cubic Feet)

State	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama	6.19	6.12	6.14	5.98	5.70	5.60	5.38	5.56
Alaska	2.59	2.50	2.63	2.48	2.54	2.61	2.65	2.70
Arizona	5.28	4.87	5.28	5.08	5.37	5.74	5.29	5.22
Arkansas	4.72	4.55	4.62	4.36	4.29	4.25	4.43	4.33
California	4.53	4.20	4.40	4.39	3.91	3.77	5.93	5.94
Colorado	4.19	4.32	4.38	4.32	4.23	4.16	4.01	3.97
Connecticut	6.90	6.45	6.30	6.37	7.55	7.21	7.21	7.21
Delaware	5.07	5.16	5.14	5.16	5.14	5.01	4.89	4.57
District of Columbia	5.26	4.99	4.76	4.85	4.89	5.18	5.18	5.24
Florida	5.30	5.13	4.95	4.95	4.97	4.43	4.84	4.80
Georgia	5.98	2.76	5.53	5.51	5.53	5.34	5.28	5.70
Hawaii	13.83	13.67	13.44	13.24	12.95	13.34	12.57	12.87
Idaho	4.53	4.56	4.80	4.65	4.64	4.61	4.60	4.37
Illinois	4.89	5.28	5.31	5.48	5.94	4.80	4.02	4.11
Indiana	4.21	4.95	4.64	4.79	4.75	4.67	4.52	4.08
Iowa	5.31	5.02	4.99	4.57	4.58	4.23	3.85	3.73
Kansas	3.08	2.69	2.77	2.88	2.85	3.15	3.58	4.01
Kentucky	4.52	4.61	4.75	4.50	4.48	4.19	4.27	4.16
Louisiana	5.60	4.91	5.06	4.71	4.80	4.69	4.08	4.43
Maine	5.38	5.56	5.95	5.49	5.47	5.53	6.37	6.37
Maryland	5.57	5.54	5.37	5.31	5.01	4.79	4.63	4.88
Massachusetts	4.29	4.15	3.85	3.76	4.54	4.49	6.16	6.44
Michigan	4.89	5.40	5.47	5.41	5.11	4.70	4.52	4.55
Minnesota	4.88	4.39	4.32	3.96	4.20	3.99	3.70	3.51
Mississippi	4.62	4.02	3.90	3.80	3.89	4.04	3.90	3.90
Missouri	4.62	4.53	4.71	4.96	4.35	4.25	4.11	4.29
Montana	4.58	4.76	4.98	4.93	4.86	4.58	4.43	4.36
Nebraska	4.21	3.93	3.78	3.69	3.98	3.75	3.69	3.76
Nevada	4.37	4.42	4.45	4.37	4.41	4.40	4.33	4.26
New Hampshire	6.75	6.95	6.85	7.24	6.50	7.03	6.46	6.48
New Jersey	5.45	5.31	5.24	4.99	5.33	5.36	5.52	5.05
New Mexico	3.19	3.08	2.99	3.28	3.82	3.39	3.23	3.44
New York	5.66	5.57	5.84	5.76	6.08	5.77	5.31	5.25
North Carolina	4.73	4.93	4.82	4.84	4.78	4.49	4.16	4.33
North Dakota	4.89	4.96	5.15	5.00	4.92	4.55	4.32	4.26
Ohio	5.00	5.19	5.28	4.67	4.84	4.54	4.42	4.39
Oklahoma	4.10	4.11	4.05	4.06	4.31	4.28	4.33	4.34
Oregon	4.73	4.89	5.02	4.95	4.82	4.73	4.71	4.68
Pennsylvania	5.70	6.23	6.49	6.73	6.56	6.25	6.14	5.77
Rhode Island	5.49	5.15	5.07	5.31	5.67	5.73	6.01	6.74
South Carolina	5.31	5.36	5.32	5.34	5.32	5.07	5.36	5.86
South Dakota	4.84	4.62	4.62	4.40	4.40	4.19	3.82	3.70
Tennessee	5.25	5.17	5.25	4.86	4.91	4.77	4.77	4.92
Texas	4.12	4.00	3.63	3.53	3.93	3.81	3.89	4.06
Utah	4.04	4.23	4.33	4.36	4.38	4.23	4.40	4.68
Vermont	5.61	5.73	6.01	6.15	6.20	5.96	5.66	5.62
Virginia	5.42	5.06	5.08	5.05	4.51	4.20	4.26	4.45
Washington	4.56	4.63	4.69	4.64	4.63	4.49	4.39	4.29
West Virginia	5.75	6.83	6.93	6.90	6.42	5.76	5.36	5.29
Wisconsin	5.45	5.43	5.42	4.91	5.11	4.44	4.46	4.49
Wyoming	4.36	4.36	4.38	4.31	4.31	4.23	4.25	4.22
Total	4.90	4.69	4.73	4.64	4.72	4.59	4.77	4.77

^R = Revised Data.

^{NA} = Not Available.

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. 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, 1992-1993
(Dollars per Thousand Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	October 1993	September 1993	August 1993	July 1993	June 1993
Alabama	3.42	2.97	2.95	3.19	3.60	3.25	3.16	3.30
Alaska	1.31	1.17	1.17	1.20	1.24	1.24	1.24	1.35
Arizona	4.03	4.18	3.43	4.07	3.97	4.01	3.98	4.65
Arkansas	3.20	3.09	3.04	3.31	3.26	3.15	3.19	3.07
California	3.40	3.71	3.91	2.41	3.02	3.39	2.84	3.77
Colorado	2.27	2.17	2.30	2.48	2.07	2.17	2.10	2.14
Connecticut	4.47	4.91	4.75	3.73	4.02	3.95	3.93	3.90
Delaware	3.34	3.17	3.05	3.37	3.44	3.17	3.11	3.52
District of Columbia	--	--	--	--	--	--	--	--
Florida	3.83	3.15	3.14	3.88	3.85	3.85	4.00	4.01
Georgia	4.06	3.33	3.27	4.12	4.63	3.84	3.61	4.41
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	2.95	--	--	--	--	--
Illinois	4.38	3.66	3.94	4.62	4.40	4.77	4.62	4.62
Indiana	3.60	3.28	3.56	3.81	4.14	3.68	3.97	3.96
Iowa	3.85	3.43	2.51	2.87	4.64	3.74	4.04	4.78
Kansas	2.66	2.53	2.64	2.53	2.79	2.56	2.59	2.55
Kentucky	3.74	3.08	3.16	3.85	3.75	3.72	3.66	3.62
Louisiana	2.27	1.82	1.68	2.40	2.40	2.22	2.16	2.43
Maine	4.66	4.01	4.67	4.33	3.97	3.96	4.03	5.36
Maryland	3.60	3.39	3.49	2.80	3.90	3.82	3.67	3.41
Massachusetts	4.86	3.94	3.83	3.87	3.94	3.71	4.24	3.68
Michigan	4.11	3.93	4.02	4.26	4.49	4.33	4.37	4.24
Minnesota	3.18	2.94	2.72	3.00	3.11	3.47	3.21	2.70
Mississippi	2.91	2.43	2.30	3.02	3.23	3.00	2.62	2.80
Missouri	4.19	3.71	4.11	4.29	4.02	4.06	4.19	4.25
Montana	4.02	4.08	3.16	5.02	4.66	4.23	4.17	4.09
Nebraska	3.13	2.78	2.67	3.20	3.22	2.87	2.91	2.57
Nevada	4.25	4.11	4.21	5.19	4.93	4.33	4.03	4.36
New Hampshire	4.30	4.31	4.18	3.94	3.75	3.75	3.60	3.33
New Jersey	3.58	3.30	3.63	3.48	3.32	3.23	3.32	3.75
New Mexico	3.70	6.46	3.54	3.20	3.91	3.50	3.71	4.44
New York	5.65	4.79	4.71	5.27	5.15	5.84	5.44	5.25
North Carolina	3.79	3.14	3.16	3.61	3.59	3.44	3.47	3.55
North Dakota	3.37	3.15	3.13	3.36	3.13	3.73	3.43	3.53
Ohio	4.67	4.01	4.09	4.72	4.94	4.77	4.56	4.73
Oklahoma	2.17	1.97	1.68	NA	2.28	2.26	1.92	2.51
Oregon	3.45	3.33	3.40	3.26	3.37	3.36	3.40	3.35
Pennsylvania	3.69	3.77	4.09	3.77	3.48	3.35	3.52	3.58
Rhode Island	5.13	4.47	5.32	4.53	4.74	3.94	4.46	4.46
South Carolina	3.28	3.00	2.90	3.12	3.30	3.05	3.03	3.19
South Dakota	3.83	3.68	3.21	3.89	5.47	3.99	3.65	3.79
Tennessee	3.64	3.30	3.18	3.63	3.68	3.47	3.59	3.79
Texas	2.35	2.03	1.87	2.28	2.62	2.42	2.24	2.16
Utah	3.04	4.00	3.67	2.87	3.00	2.81	3.00	2.93
Vermont	3.59	3.17	3.00	3.43	3.39	3.48	3.56	3.74
Virginia	3.95	3.63	3.78	3.97	3.81	2.61	2.93	3.77
Washington	3.14	2.91	2.78	NA	3.38	3.31	3.14	3.15
West Virginia	2.66	2.85	2.85	2.85	3.18	2.79	1.88	2.75
Wisconsin	3.94	3.26	3.06	4.08	4.07	3.69	3.77	3.87
Wyoming	2.93	2.91	3.03	3.25	3.23	3.19	3.07	3.00
Total	3.04	2.73	2.63	2.88	3.03	2.86	2.71	2.95

See footnotes at end of table.

Table 26. Average Price of Natural Gas Sold to Industrial Consumers by State, 1992-1993 (Continued).
(Dollars per Thousand Cubic Feet)

State	May 1993	April 1993	March 1993	February 1993	January 1993	Total 1992	December 1992	November 1992
Alabama	3.78	3.47	3.47	3.38	3.58	3.07	3.59	3.54
Alaska	1.35	1.35	1.35	1.35	1.35	1.18	1.19	1.17
Arizona	4.03	3.92	3.97	3.98	3.97	4.16	4.09	4.21
Arkansas	3.04	3.15	3.22	3.31	3.24	3.13	3.28	3.28
California	3.52	3.82	3.31	3.77	4.85	3.67	3.82	3.10
Colorado	2.48	2.26	2.27	2.27	2.49	2.20	2.32	2.29
Connecticut	4.42	4.77	4.96	5.01	5.34	4.92	5.05	4.85
Delaware	3.69	3.31	3.26	3.22	3.32	3.25	3.59	3.47
District of Columbia	—	—	—	—	—	—	—	—
Florida	4.03	3.86	3.82	3.64	3.48	3.22	3.51	3.60
Georgia	4.49	4.11	3.97	3.81	4.10	3.50	4.43	4.28
Hawaii	—	—	—	—	—	—	—	—
Idaho ^a	—	—	—	—	—	2.97	—	—
Illinois	4.64	4.81	4.23	4.15	4.12	3.75	4.14	3.79
Indiana	3.12	3.36	3.41	3.48	3.86	3.39	4.17	3.51
Iowa	3.75	4.44	3.85	3.50	4.11	3.55	3.86	3.85
Kansas	2.70	2.60	2.83	2.66	2.87	2.61	3.07	2.86
Kentucky	3.65	3.44	3.76	3.83	4.23	3.23	4.14	3.92
Louisiana	2.62	2.27	1.96	1.96	2.27	1.93	2.54	2.70
Maine	5.31	4.75	5.49	5.40	4.76	4.14	4.97	4.50
Maryland	4.33	4.67	3.96	3.88	3.25	3.56	4.13	3.75
Massachusetts	4.56	5.80	6.45	6.55	6.32	4.14	5.65	5.05
Michigan	4.16	4.06	4.02	4.02	4.04	3.92	3.86	3.90
Minnesota	3.40	3.34	3.03	3.33	3.33	3.05	3.32	3.51
Mississippi	3.34	2.94	2.76	2.71	2.80	2.53	3.02	3.05
Missouri	4.10	4.19	4.15	4.27	4.26	3.87	4.56	4.57
Montana	3.97	3.82	3.81	3.81	3.99	4.19	4.67	4.81
Nebraska	3.94	3.17	2.97	3.04	3.24	2.92	3.36	3.41
Nevada	4.26	4.12	3.80	4.09	3.69	4.07	3.84	4.11
New Hampshire	3.00	4.07	6.06	5.91	5.66	4.49	5.58	5.31
New Jersey	3.61	3.44	3.83	3.70	3.91	3.42	4.38	3.45
New Mexico	3.83	3.92	4.01	3.78	3.67	6.86	8.02	7.00
New York	6.28	5.73	5.57	5.73	5.94	4.93	5.51	5.41
North Carolina	3.80	3.62	3.87	4.14	4.22	3.34	4.11	4.02
North Dakota	3.49	3.44	3.28	3.23	3.37	3.25	3.47	3.74
Ohio	4.57	4.47	4.52	4.72	4.85	4.15	4.68	4.62
Oklahoma	2.12	2.07	2.12	2.10	2.19	2.02	2.10	2.17
Oregon	3.62	3.52	3.54	3.54	3.59	3.36	3.56	3.46
Pennsylvania	3.72	3.66	3.78	3.85	3.83	3.75	3.83	3.54
Rhode Island	4.99	5.78	6.08	6.08	6.27	4.66	5.85	5.48
South Carolina	3.53	3.29	3.25	3.46	3.52	3.13	3.88	3.62
South Dakota	4.24	3.84	3.46	3.57	3.33	3.63	3.41	3.62
Tennessee	3.78	3.49	3.58	3.54	3.84	3.44	4.18	4.05
Texas	2.81	2.47	2.23	2.06	2.31	2.12	2.59	2.56
Utah	2.91	2.92	3.27	3.24	3.31	3.91	3.60	3.66
Vermont	3.65	3.59	3.54	3.67	3.81	3.28	3.81	3.75
Virginia	4.30	4.26	4.61	4.57	4.61	3.72	4.60	3.60
Washington	3.45	3.19	2.89	2.92	2.99	2.91	2.69	3.13
West Virginia	3.24	2.73	2.68	3.90	3.04	2.89	3.12	2.87
Wisconsin	4.33	3.99	3.85	3.83	3.97	3.38	3.68	3.87
Wyoming	2.87	2.80	2.81	2.74	2.88	2.91	2.89	2.92
Total	3.24	3.13	3.08	3.12	3.26	2.84	3.38	3.26

See footnotes at end of table.

Table 26. Average Price of Natural Gas Sold to Industrial Consumers by State, 1992-1993 (Continued)
(Dollars per Thousand Cubic Feet)

State	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama	3.61	3.18	3.13	2.77	2.78	2.81	2.81	2.66
Alaska	1.17	1.17	1.16	1.17	1.16	1.16	1.16	1.19
Arizona	4.11	4.21	4.14	4.19	4.23	4.16	4.11	4.24
Arkansas	3.20	3.03	3.00	2.97	2.84	2.90	3.05	3.22
California	3.44	3.46	3.29	3.49	3.42	3.04	3.98	4.26
Colorado	2.34	1.63	2.30	1.88	2.18	2.31	2.29	2.29
Connecticut	4.64	4.09	4.26	4.32	4.51	4.71	4.94	5.39
Delaware	3.69	3.22	3.17	2.97	3.15	2.94	3.03	3.02
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.89	3.28	3.16	2.97	2.81	2.97	3.07	3.22
Georgia	4.38	2.91	3.35	3.20	3.19	3.01	2.85	3.27
Hawaii	—	—	—	—	—	—	—	—
Idaho ^a	—	—	—	—	—	—	—	—
Illinois	3.21	3.17	3.84	3.68	4.06	3.57	3.87	3.64
Indiana	3.01	3.36	2.84	3.05	3.00	2.96	3.33	3.39
Iowa	4.29	3.76	3.50	3.23	3.69	2.97	3.15	3.15
Kansas	2.87	2.70	2.58	2.40	2.39	2.31	2.32	2.39
Kentucky	3.11	3.05	3.08	2.75	2.76	2.79	3.11	3.22
Louisiana	2.89	2.19	1.99	1.85	1.84	1.73	1.54	1.37
Maine	3.88	3.55	3.49	3.36	3.65	3.43	3.93	3.88
Maryland	3.65	3.37	3.80	3.77	3.77	3.96	3.00	3.11
Massachusetts	3.35	3.06	3.01	3.38	2.81	3.40	3.71	5.16
Michigan	3.97	4.14	3.99	3.84	3.91	3.77	3.88	3.81
Minnesota	3.57	3.21	3.02	2.87	2.86	2.70	2.58	2.51
Mississippi	3.34	2.64	2.56	2.21	2.42	2.29	2.20	2.12
Missouri	3.49	3.89	3.55	3.63	3.57	3.61	3.38	3.61
Montana	4.80	4.66	4.35	4.21	4.11	4.00	3.86	3.87
Nebraska	3.62	3.00	2.96	2.65	2.60	2.45	2.39	2.42
Nevada	3.99	4.25	3.40	4.32	4.08	4.15	4.11	4.13
New Hampshire	4.20	3.62	3.47	3.65	3.67	4.69	4.08	4.94
New Jersey	3.29	3.05	2.85	2.97	2.96	2.98	3.42	3.43
New Mexico	6.66	5.85	6.06	6.71	6.33	5.83	6.62	7.14
New York	4.75	4.54	5.04	4.66	4.47	4.12	4.91	4.67
North Carolina	3.55	3.38	3.16	3.00	3.06	2.86	2.84	2.82
North Dakota	3.71	3.43	3.27	3.19	3.13	2.90	2.86	2.82
Ohio	4.13	4.30	4.13	4.44	3.82	3.86	3.80	3.77
Oklahoma	2.29	2.03	1.96	2.00	1.85	1.81	1.98	1.91
Oregon	3.42	3.31	3.30	3.30	3.32	3.29	3.28	3.33
Pennsylvania	3.51	3.54	3.60	3.80	4.16	4.01	3.81	3.83
Rhode Island	3.91	3.73	2.75	4.74	3.84	3.88	4.14	5.85
South Carolina	3.60	3.18	3.06	2.80	2.84	2.68	2.64	2.84
South Dakota	4.59	4.03	4.09	3.79	3.79	3.45	3.25	3.22
Tennessee	3.92	3.74	3.37	3.08	3.30	3.14	3.01	2.98
Texas	2.92	2.28	2.23	1.91	1.90	1.84	1.78	1.67
Utah	3.37	3.55	3.58	3.65	3.74	3.73	3.66	4.02
Vermont	3.56	3.56	3.57	3.32	3.22	3.09	2.97	2.76
Virginia	4.58	3.57	3.88	3.79	2.70	2.85	3.35	3.62
Washington	3.37	2.96	2.71	2.72	2.82	2.85	2.81	2.84
West Virginia	2.98	2.96	3.18	3.00	2.71	2.79	2.74	2.77
Wisconsin	4.04	3.47	3.24	3.10	3.07	2.99	2.97	3.09
Wyoming	3.04	3.09	3.03	3.04	2.90	2.80	2.81	2.86
Total	3.21	2.82	2.71	2.54	2.53	2.44	2.54	2.58

^a The price for small volumes of natural gas representing onsystem sales to industrial consumers in Idaho is included as an annual figure but not distributed to monthly components.

^R = Revised Data.

^{NA} = Not Available.

— = 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. 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^a
Consumers by State, 1992-1993
(Dollars per Thousand Cubic Feet)**

State	YTD 1993	YTD 1992	YTD 1991	September 1993	August 1993	July 1993	June 1993	May 1993
Alabama	2.55	2.06	1.79	2.87	2.61	2.42	2.50	3.18
Alaska	.63	.57	.53	.63	.64	.63	.61	.63
Arizona	2.97	2.23	1.95	3.18	2.87	2.89	3.14	3.21
Arkansas	2.25	1.56	1.42	2.47	2.36	2.23	2.14	1.71
California	3.14	2.63	2.93	3.01	3.15	3.12	3.01	3.56
Colorado	2.48	1.96	2.14	2.48	3.83	2.19	2.14	2.46
Connecticut	3.65	2.62	2.09	5.60	3.17	2.53	6.19	9.99
Delaware	3.27	2.65	2.40	3.07	3.31	2.82	3.05	3.90
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.40	2.23	2.12	2.31	2.32	2.39	2.37	2.67
Georgia	3.29	2.78	2.82	3.72	3.18	3.22	3.32	4.25
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.53	2.15	2.10	2.60	2.39	2.43	2.42	2.57
Indiana	2.78	2.36	2.21	2.78	2.78	2.88	2.61	3.04
Iowa	3.00	2.93	2.46	3.41	2.85	2.64	3.30	3.65
Kansas	2.29	1.89	1.62	2.28	2.25	2.27	2.18	2.56
Kentucky	3.08	2.62	2.65	3.12	2.92	2.82	3.06	3.87
Louisiana	2.48	1.77	1.53	2.71	2.51	2.34	2.34	2.98
Maine	—	—	—	—	—	—	—	—
Maryland	2.92	2.51	2.30	3.23	2.85	2.70	2.96	3.43
Massachusetts	2.73	2.50	2.23	2.79	2.57	2.57	2.47	3.01
Michigan	.92	.86	.74	1.03	1.50	1.36	.87	.30
Minnesota	2.47	1.73	1.63	2.58	2.30	2.27	2.26	2.82
Mississippi	2.46	1.83	1.57	2.68	2.53	2.42	2.44	2.85
Missouri	2.37	1.88	1.45	2.51	2.34	2.34	2.26	2.79
Montana	5.22	3.20	5.22	5.07	5.04	4.91	3.87	3.34
Nebraska	2.64	2.16	1.76	2.87	3.01	2.35	2.26	2.87
Nevada	2.41	1.82	1.71	2.44	2.48	2.17	2.17	2.45
New Hampshire	2.21	2.20	—	—	—	2.11	2.21	2.21
New Jersey	2.37	2.12	1.96	2.64	2.34	2.20	2.44	2.70
New Mexico	2.23	1.86	1.62	2.32	2.24	2.08	1.96	2.61
New York	2.74	2.33	2.17	2.83	2.58	2.46	2.64	3.24
North Carolina	3.54	2.80	2.74	3.66	3.38	3.26	3.50	3.90
North Dakota	1.95	—	2.12	4.69	—	4.62	—	—
Ohio	3.18	2.18	2.12	3.84	3.92	3.67	3.32	3.54
Oklahoma	3.24	3.09	2.94	3.33	3.00	2.94	3.18	3.68
Oregon	2.18	1.83	1.39	2.16	2.09	—	—	—
Pennsylvania	2.61	2.82	3.09	2.94	2.67	2.54	2.56	3.21
Rhode Island	2.77	2.24	1.98	2.76	2.95	2.64	2.66	—
South Carolina	2.94	1.75	1.53	3.26	2.84	2.82	3.08	3.37
South Dakota	2.13	1.69	1.73	—	2.39	—	—	—
Tennessee	—	—	.95	—	—	—	—	—
Texas	2.46	2.10	1.95	2.58	2.51	2.32	2.31	2.72
Utah	2.21	1.82	1.74	2.80	2.51	2.60	2.17	2.73
Vermont	2.02	1.92	1.62	—	—	1.96	1.93	2.28
Virginia	2.88	2.44	1.81	2.95	2.63	2.79	3.02	5.31
Washington	4.27	3.37	4.02	4.00	3.80	3.44	5.90	7.68
West Virginia	3.91	3.29	4.33	4.06	5.73	4.27	5.40	3.86
Wisconsin	2.58	2.21	2.61	2.81	2.24	2.46	2.62	3.02
Wyoming	3.37	3.36	3.49	3.71	3.68	3.71	3.39	3.47
Total	2.61	2.22	2.10	2.69	2.60	2.46	2.47	2.90

See footnotes at end of table.

**Table 27. Average Price of Natural Gas Delivered to Electric Utility^a
Consumers by State, 1992-1993 (Continued)**
(Dollars per Thousand Cubic Feet)

State	April 1993	March 1993	February 1993	January 1993	Total 1992	December 1992	November 1992	October 1992
Alabama	2.69	2.42	2.29	2.59	2.28	2.88	2.79	3.20
Alaska	.83	.84	.84	.84	.57	.56	.56	.56
Arizona	2.84	2.70	3.12	3.81	2.28	3.99	3.47	2.40
Arkansas	1.61	1.50	1.38	1.64	1.57	1.35	1.15	2.18
California	3.20	3.09	3.02	3.29	2.81	3.24	3.28	3.41
Colorado	2.22	2.39	2.33	2.51	2.14	2.49	2.45	2.50
Connecticut	8.63	6.07	3.50	6.86	2.74	6.11	7.15	6.29
Delaware	5.31	2.78	4.38	3.65	2.70	5.40	4.89	4.31
District of Columbia	--	--	--	--	--	--	--	--
Florida	2.59	2.41	2.23	2.27	2.30	2.32	2.65	2.88
Georgia	3.82	3.90	3.51	3.90	2.89	4.38	4.05	4.32
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--
Illinois	2.62	3.00	3.08	2.99	2.24	3.11	3.05	2.93
Indiana	2.57	2.42	2.94	2.87	2.48	2.81	3.21	3.14
Iowa	3.33	3.30	3.34	3.37	3.08	3.42	3.37	3.77
Kansas	2.53	2.29	2.42	2.40	1.94	2.42	2.22	2.14
Kentucky	3.22	2.76	2.74	2.99	2.77	3.12	3.24	3.38
Louisiana	2.55	2.31	2.10	2.35	1.91	2.35	2.51	2.73
Maine	--	--	--	--	--	--	--	--
Maryland	3.10	2.82	2.86	3.14	2.66	4.07	3.79	3.78
Massachusetts	2.88	2.92	3.25	3.51	2.68	3.70	3.27	3.43
Michigan	.38	.45	.85	.68	.81	.64	.67	.56
Minnesota	2.68	2.38	2.52	2.81	1.85	2.74	2.52	3.35
Mississippi	2.30	2.23	1.98	2.06	1.85	2.34	2.48	2.66
Missouri	2.58	2.71	2.42	2.62	1.89	2.75	2.61	2.13
Montana	8.88	10.41	2.78	7.62	3.30	2.44	2.38	9.41
Nebraska	2.45	2.48	2.61	2.88	2.28	2.84	2.32	2.48
Nevada	2.22	2.42	3.11	3.17	1.91	3.12	2.44	2.55
New Hampshire	2.22	--	--	--	2.20	--	--	--
New Jersey	2.72	2.51	2.35	2.66	2.18	3.09	2.98	2.92
New Mexico	2.36	2.21	2.06	2.35	1.99	2.40	2.45	2.67
New York	2.87	2.76	2.66	3.02	2.48	3.21	3.12	3.22
North Carolina	3.38	3.71	4.11	4.16	2.96	4.15	4.10	3.22
North Dakota	4.27	--	--	--	4.18	4.48	--	--
Ohio	3.72	2.34	2.64	2.79	2.31	2.59	4.17	2.66
Oklahoma	3.39	3.57	3.37	3.31	3.20	3.25	3.76	4.11
Oregon	--	2.09	1.99	2.96	1.97	2.44	2.15	2.40
Pennsylvania	3.14	2.58	2.41	2.47	3.06	3.51	5.19	4.07
Rhode Island	--	--	--	--	2.20	--	--	--
South Carolina	3.18	3.20	3.61	3.78	1.73	3.72	3.33	3.30
South Dakota	--	2.62	--	--	2.88	2.95	2.92	4.04
Tennessee	--	--	--	--	--	--	--	--
Texas	2.58	2.40	2.32	2.48	2.25	2.67	2.69	2.90
Utah	1.87	1.86	1.87	2.03	1.87	2.27	1.80	1.99
Vermont	2.28	3.33	3.60	3.30	2.00	3.14	3.02	2.18
Virginia	2.90	3.01	3.10	2.57	2.47	2.70	.48	5.05
Washington	6.52	4.05	3.73	3.70	3.31	4.54	4.57	5.97
West Virginia	3.80	4.18	--	4.04	3.53	3.51	3.27	3.34
Wisconsin	2.66	2.33	2.68	3.22	2.42	3.41	3.33	3.47
Wyoming	3.41	3.20	3.21	3.25	3.33	3.29	3.22	3.21
Total	2.75	2.61	2.55	2.70	2.36	2.81	2.87	3.04

See footnotes at end of table.

**Table 27. Average Price of Natural Gas Delivered to Electric Utility^a
Consumers by State, 1992-1993 (Continued)
(Dollars per Thousand Cubic Feet)**

State	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992	February 1992
Alabama	2.43	2.36	1.98	2.15	2.05	1.86	1.70	1.62
Alaska	.57	.54	.55	.57	.55	.56	.59	.60
Arizona	2.40	2.40	2.21	2.27	2.14	1.81	2.02	2.09
Arkansas	1.85	1.85	1.84	1.50	1.52	1.44	1.36	1.33
California	2.93	2.73	2.57	2.39	2.39	2.50	2.36	2.42
Colorado	1.94	1.80	1.98	1.84	1.98	2.02	1.81	2.26
Connecticut	6.31	2.82	2.58	2.62	2.57	2.25	2.23	6.29
Delaware	3.32	2.68	2.22	2.47	2.86	2.35	2.68	2.63
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.59	2.51	2.41	2.41	2.29	2.01	1.82	1.74
Georgia	2.30	2.75	2.83	2.61	2.99	2.78	3.18	3.19
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	2.39	2.43	2.37	2.29	2.07	2.03	1.69	2.10
Indiana	3.00	2.57	2.31	2.30	2.11	2.44	2.18	2.19
Iowa	3.51	3.32	2.80	3.01	2.93	2.76	2.56	2.35
Kansas	1.99	1.98	1.83	2.08	1.67	1.73	1.87	1.85
Kentucky	2.67	2.59	2.46	2.60	2.71	2.67	2.57	2.32
Louisiana	2.16	2.04	1.72	1.90	1.78	1.56	1.36	1.31
Maine	—	—	—	—	—	—	—	—
Maryland	2.82	2.73	2.33	2.45	2.15	2.38	2.57	2.75
Massachusetts	2.81	2.67	2.58	2.37	2.17	2.19	2.39	3.98
Michigan	1.28	.51	.63	.81	1.34	.93	.71	.94
Minnesota	1.89	1.81	1.76	1.64	1.54	1.62	1.53	1.65
Mississippi	2.22	2.17	1.87	1.97	1.72	1.65	1.49	1.33
Missouri	2.31	2.14	1.49	1.94	2.12	1.60	2.89	1.72
Montana	3.76	2.93	2.19	2.48	3.04	1.40	6.28	8.22
Nebraska	2.27	2.50	2.12	2.10	2.31	1.54	2.02	2.58
Nevada	1.87	2.25	1.86	1.95	1.59	1.43	1.53	1.45
New Hampshire	2.20	2.20	—	—	—	—	—	—
New Jersey	2.42	2.35	2.02	2.23	2.26	1.84	1.73	2.22
New Mexico	2.30	2.11	1.72	1.77	1.72	1.61	1.64	1.54
New York	2.55	2.39	2.06	2.30	2.28	2.19	2.27	2.37
North Carolina	3.15	2.83	2.78	2.83	2.52	2.53	2.69	2.68
North Dakota	4.05	4.30	4.03	—	—	—	4.28	—
Ohio	1.97	2.01	2.11	2.14	2.06	2.08	2.49	2.31
Oklahoma	3.29	3.19	2.92	3.08	2.72	2.74	2.92	3.35
Oregon	2.05	1.99	1.72	1.88	—	—	—	1.53
Pennsylvania	3.49	3.20	2.34	2.73	3.16	2.90	2.91	3.07
Rhode Island	2.84	2.45	2.45	2.27	2.13	2.04	1.86	—
South Carolina	2.74	2.46	1.91	1.71	2.56	3.15	1.46	3.29
South Dakota	—	2.61	—	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	2.34	2.30	1.99	2.06	2.03	1.99	1.94	1.92
Utah	1.98	1.92	1.76	1.74	1.67	1.82	1.83	1.88
Vermont	2.24	2.16	2.09	1.94	1.77	1.74	1.63	2.57
Virginia	2.20	3.10	2.18	2.67	2.59	2.32	2.22	2.43
Washington	3.32	2.94	2.95	3.31	3.57	7.71	4.18	3.13
West Virginia	4.27	3.40	5.36	3.26	1.21	—	3.66	3.89
Wisconsin	2.80	2.30	2.21	2.06	2.01	1.94	1.88	2.72
Wyoming	3.19	3.22	3.22	3.31	3.37	3.36	3.48	3.49
Total	2.51	2.42	2.13	2.18	2.11	2.07	1.99	2.03

^a 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.

— = 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	October 1993		September 1993		August 1993		July 1993	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	65.7	18.8	69.2	18.2	68.8	17.7	70.9	20.1
Alaska	100.0	54.8	100.0	68.6	100.0	61.3	100.0	73.3
Arizona	91.8	23.0	89.9	22.8	89.2	24.7	87.9	24.8
Arkansas	87.7	15.0	85.6	14.1	84.6	14.5	85.8	13.1
California	72.5	40.3	69.2	35.4	68.9	31.6	75.1	33.7
Colorado	90.0	25.1	94.0	33.5	92.7	32.8	92.6	32.4
Connecticut	100.0	79.7	100.0	73.8	99.2	70.7	86.5	68.1
Delaware	100.0	76.5	100.0	79.2	100.0	78.0	100.0	75.3
District of Columbia	92.5	—	90.1	—	88.3	—	96.8	—
Florida	97.2	16.2	97.2	20.8	96.9	17.2	97.0	17.5
Georgia	85.0	22.6	84.6	21.0	83.9	25.2	84.3	30.3
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	77.8	.0	79.3	.0	81.4	.0	82.9	.0
Illinois	50.3	9.2	50.1	7.7	38.4	6.4	43.0	5.6
Indiana	90.3	13.7	92.4	13.1	90.5	15.6	89.9	13.0
Iowa	92.3	17.1	88.3	10.4	88.2	10.3	89.7	10.1
Kansas	71.6	11.8	80.2	16.6	85.5	19.9	82.1	16.9
Kentucky	91.9	22.6	87.8	24.4	85.2	16.3	89.2	17.8
Louisiana	98.1	31.5	98.7	30.2	98.7	31.6	98.8	31.0
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	95.3	19.4	93.3	11.9	93.3	10.5	94.9	10.7
Massachusetts	100.0	46.3	99.5	39.9	99.6	42.1	99.7	52.3
Michigan	61.6	4.7	49.3	3.8	52.9	2.7	48.9	2.7
Minnesota	95.3	42.1	96.7	43.2	87.5	30.2	88.3	32.8
Mississippi	88.7	27.1	85.8	29.4	88.6	30.1	88.4	29.4
Missouri	72.4	19.1	73.4	20.4	68.2	16.5	71.2	18.5
Montana	89.9	4.7	87.6	4.0	91.3	8.3	91.3	7.7
Nebraska	84.5	28.1	82.0	23.4	87.2	30.0	87.5	23.3
Nevada	89.8	4.0	89.8	4.1	86.9	4.2	89.9	3.3
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	90.3	60.7	85.0	55.3	80.3	53.2	87.5	53.0
New Mexico	53.7	4.1	37.0	2.9	50.2	7.1	51.9	4.9
New York	75.2	18.3	74.0	15.9	73.3	14.1	70.3	13.5
North Carolina	79.4	57.7	99.4	70.3	89.6	54.0	90.0	53.0
North Dakota	56.1	23.3	53.5	17.2	54.0	14.9	58.1	16.6
Ohio	82.5	7.9	72.3	7.1	69.1	5.8	74.3	8.1
Oklahoma	81.8	NA	82.3	25.7	80.9	31.9	79.2	31.1
Oregon	94.1	31.4	97.3	29.8	97.5	28.7	97.6	25.7
Pennsylvania	73.3	18.2	66.2	20.3	65.4	19.3	72.5	17.1
Rhode Island	100.0	11.9	100.0	12.1	100.0	9.1	100.0	9.6
South Carolina	94.5	57.3	100.0	58.8	93.5	59.3	94.0	60.4
South Dakota	78.7	61.2	75.8	52.1	72.9	46.4	75.0	55.2
Tennessee	90.8	33.7	89.7	34.7	89.4	32.0	89.9	32.0
Texas	79.1	30.7	78.7	17.9	83.2	31.5	80.9	29.7
Utah	100.0	15.0	100.0	15.7	100.0	13.9	100.0	12.3
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	77.8	12.8	84.5	15.1	75.2	10.3	83.9	10.8
Washington	NA	NA	90.7	35.5	90.5	33.3	90.6	34.6
West Virginia	41.5	9.0	28.3	9.3	25.9	7.5	25.7	11.5
Wisconsin	91.1	43.2	88.4	41.7	87.0	37.3	87.6	38.1
Wyoming	97.1	2.2	94.7	1.7	96.4	1.9	97.1	2.1
Total	73.6	25.4	71.7	21.7	71.3	24.7	78.3	26.7

See footnotes at end of table.

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

State	June 1993		May 1993		April 1993		March 1993	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	71.9	18.2	75.3	17.1	80.3	19.8	82.4	20.0
Alaska	100.0	79.7	100.0	70.9	100.0	73.4	100.0	70.1
Arizona	90.3	18.7	90.9	26.8	89.7	24.0	92.2	28.0
Arkansas	84.1	14.3	87.5	14.3	91.8	16.0	92.7	16.1
California	70.0	31.4	75.6	34.1	79.6	35.9	76.5	36.1
Colorado	95.2	30.1	94.9	30.1	95.5	34.2	96.3	32.7
Connecticut	99.2	71.9	99.3	69.5	98.0	70.0	97.1	73.5
Delaware	100.0	69.3	100.0	75.0	100.0	72.5	100.0	73.7
District of Columbia	99.8	—	100.0	—	100.0	—	100.0	—
Florida	97.6	35.4	97.5	30.6	97.3	28.6	96.6	28.7
Georgia	81.6	23.1	85.3	23.4	90.1	26.5	94.1	35.2
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	82.5	.0	87.5	.0	88.0	.0	91.1	.0
Illinois	43.5	7.2	51.6	8.5	56.5	16.1	58.5	15.4
Indiana	91.4	14.2	100.0	25.0	99.4	26.0	99.6	27.4
Iowa	90.3	8.0	92.3	12.9	96.0	12.0	95.4	15.0
Kansas	78.8	14.4	84.4	12.3	83.5	12.6	85.2	10.6
Kentucky	93.0	24.3	91.9	28.5	93.1	37.7	95.0	29.0
Louisiana	98.8	31.8	98.9	34.6	98.5	35.3	97.9	31.8
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	96.1	47.9	94.6	7.7	93.2	9.1	96.5	22.1
Massachusetts	99.8	53.0	99.7	58.6	99.7	52.5	99.8	51.7
Michigan	50.0	3.0	62.2	5.3	66.6	8.6	71.3	10.3
Minnesota	93.4	48.4	99.3	50.1	99.2	45.9	96.5	48.5
Mississippi	91.6	31.1	95.6	33.4	96.7	32.3	92.7	35.9
Missouri	73.8	17.6	80.2	22.4	86.8	24.3	88.8	27.3
Montana	91.2	9.9	95.0	13.8	94.0	14.1	95.0	15.0
Nebraska	87.7	23.1	97.8	29.5	93.0	24.2	94.1	42.4
Nevada	90.8	3.8	92.6	3.4	91.1	3.7	94.3	7.6
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	86.8	53.5	88.8	54.6	91.5	55.5	93.9	58.6
New Mexico	54.3	2.1	59.6	10.4	61.3	1.7	66.7	1.6
New York	67.5	16.0	72.5	14.8	78.8	22.0	83.2	25.6
North Carolina	90.1	54.8	100.0	94.3	100.0	95.7	100.0	92.9
North Dakota	62.6	15.7	73.3	19.0	76.9	26.2	77.4	29.5
Ohio	73.6	6.6		7.3	83.6	10.7	86.7	13.6
Oklahoma	82.0	28.3		27.3	90.2	31.1	91.1	27.2
Oregon	97.8	27.2		21.8	97.9	22.1	98.5	23.9
Pennsylvania	72.5	17.6		23.6	77.7	27.0	79.0	25.3
Rhode Island	100.0	12.1	100.0	10.4	100.0	10.7	100.0	11.7
South Carolina	100.0	61.4	100.0	55.9	100.0	58.3	100.0	67.0
South Dakota	73.3	38.4	76.4	43.7	81.2	55.1	84.4	54.4
Tennessee	89.6	^R 31.9	97.3	38.8	95.8	45.9	95.9	46.5
Texas	78.3	27.5	77.6	29.9	83.2	28.0	83.8	30.2
Utah	100.0	^R 13.7	100.0	12.2	100.0	12.5	100.0	12.0
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	86.3	14.3	89.1	21.7	86.3	16.2	88.7	13.2
Washington	89.8	38.8	90.9	42.1	93.7	45.2	93.9	44.4
West Virginia	28.4	8.3	40.6	8.4	53.3	7.7	54.9	8.1
Wisconsin	89.3	36.6	90.1	40.7	91.8	42.7	94.2	49.0
Wyoming	96.9	4.1	98.4	3.2	98.2	3.1	98.5	5.0
Total	78.0	^R 24.4	81.6	28.4	84.3	29.3	85.8	30.1

See footnotes at end of table.

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

State	February 1993		January 1993		Total 1992		December 1992	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	81.8	22.1	80.4	20.4	80.7	29.9	80.6	31.1
Alaska	100.0	73.4	100.0	76.0	100.0	69.8	100.0	73.9
Arizona	93.1	25.7	93.1	29.3	92.6	29.6	92.9	31.6
Arkansas	93.0	16.6	92.5	16.7	90.7	13.8	90.8	20.1
California	81.3	44.7	78.8	31.7	74.5	27.5	81.4	30.0
Colorado	96.2	34.9	96.3	35.4	95.5	32.2	96.2	37.0
Connecticut	97.6	73.5	97.1	71.6	96.5	65.6	98.4	75.3
Delaware	100.0	75.5	100.0	71.9	100.0	65.0	100.0	74.0
District of Columbia	100.0	—	100.0	—	99.0	—	100.0	—
Florida	96.6	31.0	96.5	32.6	97.7	32.9	97.0	35.1
Georgia	92.3	37.3	90.8	32.0	88.1	35.0	92.9	40.3
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	90.0	.0	89.5	.0	85.7	.3	88.3	.0
Illinois	58.5	16.9	61.2	21.2	57.7	15.0	59.9	20.7
Indiana	93.7	26.9	94.3	23.9	96.8	23.2	98.0	22.3
Iowa	96.3	18.2	96.3	16.3	95.7	17.6	96.7	23.9
Kansas	82.1	8.8	83.4	10.2	84.4	10.2	82.7	8.6
Kentucky	95.1	21.4	94.9	20.0	93.1	35.1	94.9	27.0
Louisiana	97.8	34.7	97.3	34.7	87.5	37.6	86.4	34.0
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	97.4	15.0	97.3	18.6	96.0	20.1	97.4	30.5
Massachusetts	99.8	55.3	99.8	56.2	99.8	45.4	99.8	33.9
Michigan	71.1	10.9	73.2	11.6	68.8	9.1	73.1	12.8
Minnesota	96.9	48.8	98.8	50.5	96.2	42.3	97.6	54.4
Mississippi	84.5	34.6	91.7	34.9	96.4	45.5	97.4	44.8
Missouri	86.4	28.7	87.9	29.4	85.5	24.5	87.2	27.0
Montana	94.1	16.1	95.5	16.5	95.4	17.5	94.6	13.2
Nebraska	94.4	45.4	93.7	45.0	88.2	41.2	90.9	44.6
Nevada	96.0	6.9	97.1	6.1	88.3	7.5	95.4	14.1
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	94.2	60.5	93.8	63.4	92.4	55.7	96.9	59.5
New Mexico	62.6	2.9	67.8	4.8	70.0	4.3	61.1	9.8
New York	82.4	28.4	82.3	25.4	77.7	23.3	81.5	27.7
North Carolina	100.0	94.0	100.0	97.1	95.9	81.0	100.0	98.9
North Dakota	73.9	31.5	77.1	34.3	68.9	21.6	68.3	31.0
Ohio	86.8	12.6	89.3	11.2	85.6	11.6	88.5	14.5
Oklahoma	91.4	37.5	91.2	41.3	88.5	23.7	88.1	41.5
Oregon	99.0	26.0	98.6	25.4	97.8	20.7	98.4	24.4
Pennsylvania	79.2	26.7	80.0	29.3	75.8	22.9	79.4	34.3
Rhode Island	100.0	11.8	100.0	10.8	100.0	11.4	100.0	11.0
South Carolina	100.0	70.0	100.0	72.2	98.6	66.9	100.0	74.7
South Dakota	83.9	61.4	86.5	68.3	82.4	52.6	84.7	68.6
Tennessee	96.3	44.9	96.0	39.2	96.4	49.6	97.4	48.8
Texas	85.2	29.1	83.9	30.0	79.7	31.3	78.6	32.0
Utah	100.0	12.3	100.0	9.9	100.0	11.7	100.0	13.4
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	90.9	15.3	89.1	14.5	80.7	25.6	90.3	30.4
Washington	93.3	46.0	93.8	48.0	87.3	37.4	92.3	44.8
West Virginia	54.9	6.7	54.3	8.8	56.9	16.2	58.9	24.2
Wisconsin	95.1	48.6	94.1	46.6	91.3	41.5	95.1	49.0
Wyoming	98.3	4.3	98.6	4.8	98.0	3.8	98.3	4.5
Total	85.8	31.2	86.2	30.8	83.2	30.3	85.6	32.5

See footnotes at end of table.

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

State	November 1992		October 1992		September 1992		August 1992	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	74.2	30.4	73.2	28.7	74.4	26.5	74.7	28.9
Alaska	100.0	72.3	100.0	71.2	100.0	81.3	100.0	60.1
Arizona	89.1	28.8	91.2	30.1	90.5	27.2	86.0	26.0
Arkansas	88.7	15.3	87.6	14.4	86.4	12.2	85.4	12.2
California	76.7	27.7	79.0	31.6	79.7	33.3	64.6	29.8
Colorado	93.7	32.4	91.2	37.3	93.6	40.5	93.3	34.6
Connecticut	98.2	78.9	97.8	69.7	98.7	63.9	98.8	61.8
Delaware	100.0	72.3	100.0	68.8	100.0	61.9	100.0	62.3
District of Columbia	100.0	—	100.0	—	99.0	—	99.5	—
Florida	97.4	31.8	98.2	28.9	98.3	32.3	98.1	31.6
Georgia	87.9	29.4	84.6	30.0	83.4	40.6	83.3	35.6
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	82.2	.0	77.9	.0	80.2	.0	82.4	.0
Illinois	60.5	22.1	55.5	19.5	47.0	12.8	49.2	7.9
Indiana	99.9	29.8	99.8	28.3	91.9	20.9	99.6	25.6
Iowa	96.1	26.7	91.0	19.2	88.7	13.3	90.6	13.1
Kansas	78.0	10.4	81.1	9.8	86.9	10.7	88.9	13.6
Kentucky	94.6	35.4	93.0	57.3	87.9	51.3	87.4	42.9
Louisiana	81.4	32.8	90.6	33.5	91.1	36.4	90.2	30.2
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	97.0	41.0	95.0	18.8	94.1	8.4	92.7	9.1
Massachusetts	99.7	36.6	99.6	43.6	99.6	44.7	99.6	44.9
Michigan	68.6	8.6	61.1	5.7	49.9	4.2	51.6	4.0
Minnesota	96.5	48.9	99.4	45.0	93.0	39.9	89.8	36.3
Mississippi	95.9	45.4	95.6	43.3	95.6	43.1	94.8	45.6
Missouri	81.0	21.7	76.1	28.8	74.5	18.5	75.8	21.5
Montana	92.8	14.1	92.0	11.1	90.6	9.3	96.8	14.8
Nebraska	87.1	45.8	84.5	40.0	80.5	33.4	83.6	36.9
Nevada	88.5	6.4	88.9	6.5	82.7	6.3	81.4	6.7
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	94.8	63.9	86.4	57.9	80.7	55.9	80.7	55.7
New Mexico	57.0	8.2	57.9	3.2	60.8	9.1	64.4	2.1
New York	82.6	24.2	76.0	21.1	69.3	16.1	69.3	13.7
North Carolina	100.0	97.5	99.9	96.7	89.2	75.1	86.2	61.1
North Dakota	67.3	25.7	58.8	18.0	57.2	14.2	58.8	13.0
Ohio	85.7	12.8	84.2	12.2	73.1	7.4	73.5	9.2
Oklahoma	86.9	31.8	85.3	28.3	84.3	25.4	85.7	21.8
Oregon	97.4	22.7	94.6	18.7	97.8	17.8	96.7	17.6
Pennsylvania	74.1	30.4	74.0	29.4	69.4	20.5	67.2	17.9
Rhode Island	100.0	12.5	100.0	12.1	100.0	13.3	100.0	9.1
South Carolina	100.0	69.8	99.7	66.6	97.0	63.2	95.8	65.4
South Dakota	81.8	64.4	76.5	59.2	78.0	54.7	74.6	50.3
Tennessee	97.5	48.8	97.3	48.5	91.6	38.9	90.4	43.1
Texas	75.3	28.0	72.4	33.3	71.9	29.4	75.9	32.8
Utah	100.0	10.2	100.0	11.7	100.0	11.9	100.0	11.6
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	86.6	30.2	89.9	26.0	83.8	30.9	85.9	21.5
Washington	86.8	36.6	83.4	37.1	81.6	39.3	80.3	34.6
West Virginia	56.8	16.7	48.1	13.6	33.4	13.8	33.6	14.4
Wisconsin	93.4	46.2	90.7	38.4	85.2	34.8	84.1	33.2
Wyoming	98.2	4.0	97.2	2.7	97.4	2.3	97.1	2.4
Total	83.1	30.8	80.9	31.4	78.0	29.3	76.1	28.6

See footnotes at end of table.

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

State	July 1992		June 1992		May 1992		April 1992	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	75.3	29.9	77.6	28.3	79.0	28.4	83.2	29.4
Alaska	100.0	66.7	100.0	69.9	100.0	67.7	100.0	68.8
Arizona	86.3	26.8	88.9	26.3	89.9	26.3	92.7	31.4
Arkansas	85.9	12.4	87.0	13.1	88.4	12.6	92.7	14.4
California	60.9	31.1	74.5	26.2	63.5	24.3	79.0	36.1
Colorado	94.2	40.0	96.0	27.9	95.1	28.5	95.7	25.8
Connecticut	95.8	54.2	87.2	52.1	93.6	54.1	94.4	59.2
Delaware	100.0	59.0	100.0	59.9	100.0	63.4	100.0	61.0
District of Columbia	91.4	—	100.0	—	97.6	—	97.4	—
Florida	98.1	34.5	98.2	38.1	98.3	38.5	98.2	27.8
Georgia	79.7	31.4	82.7	30.1	85.0	40.2	88.2	46.0
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	81.0	.0	80.2	.0	83.1	.0	85.2	.0
Illinois	44.4	7.4	43.4	5.6	53.0	9.1	57.5	11.9
Indiana	92.8	17.8	99.9	22.8	99.7	24.7	99.1	22.4
Iowa	91.3	11.8	93.2	12.8	94.3	14.2	96.2	15.0
Kansas	88.4	12.2	86.8	9.8	88.8	13.5	86.8	10.5
Kentucky	86.7	45.2	86.9	47.3	87.9	33.7	91.9	22.2
Louisiana	90.6	30.6	90.1	28.7	90.5	46.3	90.6	42.4
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	93.1	7.4	92.8	7.0	94.1	5.8	95.6	15.1
Massachusetts	99.7	47.7	99.8	44.2	99.7	48.9	99.8	53.1
Michigan	48.5	4.6	55.5	4.7	66.6	7.2	70.5	10.6
Minnesota	93.1	32.7	88.3	37.1	92.2	35.6	95.5	39.8
Mississippi	95.5	45.1	95.4	43.4	95.2	44.6	96.6	45.5
Missouri	71.9	18.2	80.6	18.6	82.7	17.5	88.1	28.4
Montana	95.4	15.1	94.9	16.3	96.6	17.3	96.5	23.4
Nebraska	85.6	32.1	81.7	33.0	88.7	43.1	90.9	40.3
Nevada	84.8	4.7	84.0	7.5	83.7	6.2	87.2	6.9
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	88.6	52.8	91.3	53.6	94.1	51.8	87.7	48.4
New Mexico	62.4	1.9	66.5	2.4	64.0	7.6	73.0	.7
New York	72.9	17.3	70.9	15.6	72.4	19.8	77.3	24.6
North Carolina	84.3	46.9	85.8	61.1	88.3	61.8	93.1	73.3
North Dakota	61.6	12.6	63.8	14.7	73.6	21.0	71.6	24.9
Ohio	72.0	7.3	73.9	8.4	78.9	8.4	85.7	12.0
Oklahoma	80.2	16.2	84.1	17.0	85.4	16.8	90.9	16.4
Oregon	97.9	17.5	97.8	20.4	97.7	24.4	97.7	24.5
Pennsylvania	68.1	14.1	73.1	12.3	71.8	14.7	75.1	20.4
Rhode Island	100.0	12.1	100.0	9.8	100.0	15.1	100.0	13.3
South Carolina	95.5	61.9	95.8	64.6	98.5	69.2	98.6	61.6
South Dakota	72.3	32.7	73.5	39.2	80.7	40.9	83.1	44.4
Tennessee	97.3	43.8	95.8	47.9	93.7	50.6	97.2	50.7
Texas	77.0	31.4	77.8	35.0	79.5	31.0	83.6	32.4
Utah	100.0	11.1	100.0	10.7	100.0	11.3	100.0	11.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	86.9	14.0	88.4	30.3	88.9	25.0	91.7	26.4
Washington	78.5	36.1	80.7	36.1	83.5	34.8	85.5	35.0
West Virginia	35.8	10.3	39.3	12.6	54.5	14.9	63.0	17.4
Wisconsin	83.3	32.0	82.3	31.9	85.8	36.9	90.0	42.3
Wyoming	96.5	2.3	97.2	2.5	97.9	3.2	98.4	4.3
Total	76.0	27.4	79.4	28.0	79.3	29.8	84.0	31.3

See footnotes at end of table.

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

State	March 1992		February 1992		January 1992		Total 1991	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	84.0	35.6	86.8	32.2	83.7	29.1	82.7	31.4
Alaska	100.0	69.1	100.0	68.1	100.0	68.7	100.0	69.1
Arizona	96.3	33.0	97.0	32.9	97.2	33.1	93.2	48.1
Arkansas	91.3	10.3	94.7	16.4	93.0	11.5	91.5	19.4
California	75.7	24.0	65.6	22.9	86.6	20.6	77.8	29.8
Colorado	95.9	27.6	96.7	25.0	96.7	28.2	96.0	34.7
Connecticut	95.6	62.7	97.2	72.0	97.7	75.8	93.0	68.2
Delaware	100.0	62.1	100.0	63.7	100.0	65.9	100.0	65.9
District of Columbia	100.0	—	100.0	—	99.6	—	97.3	—
Florida	97.4	29.0	97.2	28.2	96.8	38.2	97.4	40.7
Georgia	89.3	32.6	90.6	28.8	90.8	34.4	87.5	36.8
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	87.1	.0	89.0	.0	89.4	.0	87.6	.4
Illinois	59.5	14.6	58.2	16.8	63.0	21.2	59.0	15.4
Indiana	98.6	20.2	92.4	19.8	93.6	23.2	94.2	21.4
Iowa	96.5	15.5	97.4	19.8	97.6	22.1	97.7	28.1
Kansas	83.9	7.4	83.8	9.4	82.9	8.5	89.2	15.1
Kentucky	93.6	17.6	94.2	20.2	95.4	31.8	94.0	26.8
Louisiana	88.7	43.1	87.7	44.8	82.3	43.6	99.1	45.3
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.9
Maryland	96.3	23.5	97.2	29.7	97.2	32.2	96.6	15.8
Massachusetts	99.8	42.4	99.9	47.4	99.9	60.0	99.8	71.0
Michigan	71.4	12.0	74.5	14.0	73.7	15.5	68.3	10.8
Minnesota	96.0	42.4	95.3	40.9	99.6	46.4	95.2	41.8
Mississippi	96.4	47.2	97.3	51.5	96.9	46.2	95.9	48.0
Missouri	89.1	26.2	90.1	31.0	89.7	29.5	85.9	25.3
Montana	96.7	27.3	98.0	26.6	97.1	24.7	97.5	54.5
Nebraska	89.9	48.5	91.6	43.1	91.7	50.2	91.8	46.4
Nevada	88.3	6.6	89.5	9.1	90.6	8.6	90.8	14.1
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.1
New Jersey	92.1	53.9	95.7	56.6	96.9	55.9	93.9	55.9
New Mexico	75.3	1.6	84.9	1.7	84.7	3.8	77.7	10.5
New York	79.5	27.4	78.9	31.0	81.0	33.5	80.7	29.4
North Carolina	99.2	95.1	99.2	93.8	99.3	98.4	95.0	72.5
North Dakota	72.0	21.3	73.7	28.9	71.7	25.7	70.0	23.9
Ohio	88.4	13.2	88.0	14.9	89.1	14.5	86.7	12.0
Oklahoma	87.7	18.6	92.3	19.3	91.6	30.2	91.3	42.0
Oregon	97.4	23.4	98.4	19.4	98.6	19.9	97.9	19.1
Pennsylvania	76.6	21.5	79.6	23.4	77.1	29.3	77.3	20.9
Rhode Island	100.0	11.1	100.0	8.2	100.0	9.2	100.0	14.3
South Carolina	98.9	62.0	99.1	69.0	99.1	77.9	98.2	70.4
South Dakota	85.6	46.5	83.3	53.4	87.0	67.2	81.8	55.1
Tennessee	96.8	56.0	97.1	57.4	96.6	57.3	95.7	55.6
Texas	83.4	28.3	85.6	32.5	86.9	30.1	89.3	30.7
Utah	100.0	10.8	100.0	12.4	100.0	12.8	100.0	15.3
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	93.7	23.5	93.3	27.5	94.6	25.4	93.6	28.8
Washington	88.7	37.5	89.0	38.1	92.1	38.0	92.2	44.2
West Virginia	59.9	18.1	65.9	18.3	65.0	16.4	54.9	21.4
Wisconsin	91.6	44.5	92.1	46.6	92.7	46.3	91.0	42.7
Wyoming	97.8	4.8	98.1	4.9	98.6	5.3	99.0	6.3
Total	84.7	29.9	85.2	31.4	87.1	31.8	85.1	32.7

^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.

Table 29. Gas Home Customer-Weighted Heating Degree-Days

Census Divisions	November 1 through November 30					Cumulative July 1 through November 30				
	Normal ^a	1992	1993	Percent Change		Normal ^a	1992	1993	Percent Change	
				Normal to 1993	1992 to 1993				Normal to 1993	1992 to 1993
New England CT, ME, MA, NH, RI, VT	693	720	680	-1.9	-5.6	1,247	1,460	1,344	7.8	-7.9
Middle Atlantic NJ, NY, PA	646	649	628	-2.8	-3.2	1,104	1,280	1,165	5.5	-9.0
East North Central IL, IN, MI, OH, WI	730	744	754	3.3	1.3	1,247	1,446	1,431	14.8	-1.0
West North Central IA, KS, MN, MO, ND, NE, SD	788	866	880	11.7	1.6	1,324	1,539	1,606	21.3	4.4
South Atlantic DE, FL, GA, MD and DC, NC, SC, VA, WV	421	422	424	.7	.5	654	712	680	4.0	-4.5
East South Central AL, KY, MS, TN	431	458	481	11.6	5.0	659	712	759	15.2	6.6
West South Central AR, LA, OK, TX	279	370	391	40.1	5.7	365	445	560	53.4	25.8
Mountain AZ, CO, ID, MT, NV, NM, UT, WY	715	815	810	13.3	-6	1,300	1,357	1,484	14.2	9.4
Pacific ^b CA, OR, WA	342	294	322	-5.8	9.5	545	381	413	-24.2	8.4
U.S. Average ^b	559	580	588	5.2	1.4	931	1,022	1,030	10.6	.8

^a Normal is based on calculations of data from 1961 through 1990.

^b Excludes Alaska and Hawaii.

Notes: Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations of the mean daily temperature below 65 degrees Fahrenheit. A weather station recording a mean daily temperature of 40 degrees Fahrenheit would report 25 heating degree-days. There are several degree-day data bases maintained by the National Oceanic and Atmospheric Administration. The information published in the EIA *Natural Gas Monthly* is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland. The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at these weather stations is used to calculate Statewide degree-day averages weighted by gas home customers. The State figures are then aggregated into Census Divisions and into the national average.

Source: National Oceanic and Atmospheric Administration.

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
Supply and Disposition	
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
Prior-Month Consumption	
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 1992, of the 33 producing States, 23 reported data on nonhydrocarbon gases removed. The 23 States accounted for 61 percent of total 1992 gross withdrawals. Of the 23 States reporting nonhydrocarbon gases removed, 13 reported zero values: Alaska, Arizona, Arkansas, Colorado, Illinois, Indiana, Maryland, Missouri, Nevada, New York, Oregon, South Dakota, and Virginia. The eight States reporting volumes greater than zero are Alabama, California, 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 35 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 and 1992 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. Comparison of preliminary and final monthly data on exports has indicated that preliminary figures do not provide good estimates of the trend in exports. Thus caution should be used in making inferences from these data.

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

Estimated Monthly Data

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

Final Monthly Data

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

Residential, Commercial, and Industrial Sector Consumption

Preliminary Monthly Data

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

Average Price of Deliveries to Consumers

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

The prices reported for deliveries to residential, commercial, or industrial consumers in Tables 24, 25, and 26 represent the ratio of revenues reported by respondents to Form EIA-857 to volumes of natural gas sold and delivered to customers in each of the three consumer classes. Revenues contain not only the commodity charge but also all the incidental "costs of doing business" which public utility commissions consider in allowing the tariffs, as well as taxes charged to the customer and passed along to the appropriate government units. Some of the incidental costs represent companies' investments -- such as pipe to deliver gas -- and labor.

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.

The seasonal pattern of prices for residential customers, where the ratio is higher in the summer months and lower in the winter, reflects the fact the reported revenues contain not only the commodity cost of the gas consumed, but also the incidental costs involved in serving the residential sector. Providing service to residential customers is both capital and labor intensive, both absolutely and relative to providing service to either commercial or industrial customers. During the summer, the volume of gas sold to residential consumers is much lower than in other seasons, but the revenue stream they generate -- including as it does the constant costs of doing business -- leads to a calculated price contained in Table 22 that is higher than in other seasons. The use of gas by either industrial or commercial consumers does not have the severe seasonal peaks and valleys of the residential sector so the reported price does not contain the algebraic inflation during the slack use period that is reflected in the residential prices.

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 1992 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 prepayment, 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

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 municipalities 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 1993 mailing for report year 1992 totaled 2,104 questionnaire packages. To this original mailing, 6 names were added and 46 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 2,064 responses from approximately 1,800 companies.

Following the original mailing, second request mailing, and nonrespondents followup, 2,056 responses were entered into the data base, and there were eight 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, 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 	Date: _____
-----------------	-------------------	------------------	--	--	-------------

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:

Name: _____ Telephone Area 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.

Page 1

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

<p>1.0 Type of Company (check one)</p> <p>a ☐ Investor owned distributor</p> <p>b ☐ Municipally owned distributor</p> <p>c ☐ Interstate pipeline</p> <p>d ☐ Intrastate pipeline</p> <p>e ☐ Storage operator</p> <p>f ☐ SNG plant operator</p> <p>g ☐ Integrated oil and gas</p> <p>h ☐ Producer</p> <p>i ☐ Gatherer</p> <p>j ☐ Processor</p> <p>k ☐ Other (specify) _____</p>	<p>2.0 Gas Activities Operated On-system Within the Report State (check all that apply)</p> <table style="width: 100%;"> <tr> <td style="width: 50%;"> <p>a ☐ Produced Natural Gas</p> <p>b ☐ Gathered</p> <p>c ☐ Processed</p> <p>d ☐ Purchased</p> <p>e ☐ Transported Interstate</p> <p>f ☐ Transported Intrastate</p> <p>g ☐ Stored Underground</p> <p>h ☐ Stored LNG</p> <p>i ☐ Injected Propane-air</p> <p>j ☐ Produced SNG</p> <p>k ☐ Imported</p> <p>l ☐ Exported</p> </td> <td style="width: 50%;"> <p>m ☐ Delivered for Resale</p> <p>n ☐ Delivered directly to consumers</p> <p>o ☐ Other (specify) _____</p> </td> </tr> </table>	<p>a ☐ Produced Natural Gas</p> <p>b ☐ Gathered</p> <p>c ☐ Processed</p> <p>d ☐ Purchased</p> <p>e ☐ Transported Interstate</p> <p>f ☐ Transported Intrastate</p> <p>g ☐ Stored Underground</p> <p>h ☐ Stored LNG</p> <p>i ☐ Injected Propane-air</p> <p>j ☐ Produced SNG</p> <p>k ☐ Imported</p> <p>l ☐ Exported</p>	<p>m ☐ Delivered for Resale</p> <p>n ☐ Delivered directly to consumers</p> <p>o ☐ Other (specify) _____</p>
<p>a ☐ Produced Natural Gas</p> <p>b ☐ Gathered</p> <p>c ☐ Processed</p> <p>d ☐ Purchased</p> <p>e ☐ Transported Interstate</p> <p>f ☐ Transported Intrastate</p> <p>g ☐ Stored Underground</p> <p>h ☐ Stored LNG</p> <p>i ☐ Injected Propane-air</p> <p>j ☐ Produced SNG</p> <p>k ☐ Imported</p> <p>l ☐ Exported</p>	<p>m ☐ Delivered for Resale</p> <p>n ☐ Delivered directly to consumers</p> <p>o ☐ Other (specify) _____</p>		

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

	Volume (Mcf at 14.73 psia)	e or f	Cost or Revenue (Dollars)	e or f
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	<div style="border: 1px solid black; width: 100px; height: 15px;"></div> 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 ₂ S & CO ₂)				
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	<div style="border: 1px solid black; width: 100px; height: 15px;"></div> 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)				
5.4 Delivered directly to consumers:				
5.4.1 Residential sales	<div style="border: 1px solid black; width: 100px; height: 15px;"></div>			
5.4.2 Commercial sales	<div style="border: 1px solid black; width: 100px; height: 15px;"></div>			
5.4.3 Industrial sales	<div style="border: 1px solid black; width: 100px; height: 15px;"></div>			
5.4.4 Electric utility sales	<div style="border: 1px solid black; width: 100px; height: 15px;"></div>			
5.4.5 Natural gas used as vehicle fuel	<div style="border: 1px solid black; width: 100px; height: 15px;"></div>			
6.0 Average heat content of gas delivered directly to consumers	<div style="border: 1px solid black; width: 100px; height: 15px;"></div> Btu			
7.0 Natural gas <i>transported</i> 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)				
7.4 Transported and delivered to consumers for the account of others				
Number of consumers				
7.4.1 Residential consumers	<div style="border: 1px solid black; width: 100px; height: 15px;"></div>			
7.4.2 Commercial consumers	<div style="border: 1px solid black; width: 100px; height: 15px;"></div>			
7.4.3 Industrial consumers	<div style="border: 1px solid black; width: 100px; height: 15px;"></div>			
7.4.4 Electric utility consumers	<div style="border: 1px solid black; width: 100px; height: 15px;"></div>			
7.4.5 Natural gas used as vehicle fuel	<div style="border: 1px solid black; width: 100px; height: 15px;"></div>			
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 (-)				

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: _____
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PART VI: CONTINUATION SHEET
(To be used only if insufficient space was provided on Part IV and/or Part V) Sheet _____ of _____

Supply (Continued)	Volume (Mcf at 14.73 psia)	\$ or f	Cost or Revenue (Dollars)	\$ or f
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)				

Disposition (Continued)				
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 COPY Page 4

[illegible]

EIA	
1	2

Date:

PART VII: FOOTNOTES

[illegible]

EIA COPY Page 5

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	4.0 Resubmittal
		EIA ☐	Date: ☐
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:			
Name: _____		Telephone Area	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																											
<p>1.0 Type of Company (check one)</p> <p>a. ☐ Investor owned distributor</p> <p>b. ☐ Municipally owned distributor</p> <p>c. ☐ Interstate pipeline</p> <p>d. ☐ Intrastate pipeline</p> <p>e. ☐ Storage operator</p> <p>f. ☐ SNG plant operator</p> <p>g. ☐ Integrated oil and gas</p> <p>h. ☐ Producer</p> <p>i. ☐ Gatherer</p> <p>j. ☐ Processor</p> <p>k. ☐ Other (specify) _____</p>	<p>2.0 Gas Activities Operated On-system Within the Report State (check all that apply)</p> <table style="width: 100%;"> <tr> <td style="width: 33%;">a. ☐ Produced Natural Gas</td> <td style="width: 33%;">m. ☐ Delivered for Resale</td> </tr> <tr> <td>b. ☐ Gathered</td> <td>n. ☐ Delivered directly to consumers</td> </tr> <tr> <td>c. ☐ Processed</td> <td>o. ☐ Other (specify) _____</td> </tr> <tr> <td>d. ☐ Purchased</td> <td></td> </tr> <tr> <td>e. ☐ Transported Interstate</td> <td></td> </tr> <tr> <td>f. ☐ Transported Intrastate</td> <td></td> </tr> <tr> <td>g. ☐ Stored Underground</td> <td></td> </tr> <tr> <td>h. ☐ Stored LNG</td> <td></td> </tr> <tr> <td>i. ☐ Injected Propane-air</td> <td></td> </tr> <tr> <td>j. ☐ Produced SNG</td> <td></td> </tr> <tr> <td>k. ☐ Imported</td> <td></td> </tr> <tr> <td>l. ☐ Exported</td> <td></td> </tr> </table>			a. ☐ Produced Natural Gas	m. ☐ Delivered for Resale	b. ☐ Gathered	n. ☐ Delivered directly to consumers	c. ☐ Processed	o. ☐ Other (specify) _____	d. ☐ Purchased		e. ☐ Transported Interstate		f. ☐ Transported Intrastate		g. ☐ Stored Underground		h. ☐ Stored LNG		i. ☐ Injected Propane-air		j. ☐ Produced SNG		k. ☐ Imported		l. ☐ Exported	
a. ☐ Produced Natural Gas	m. ☐ Delivered for Resale																										
b. ☐ Gathered	n. ☐ Delivered directly to consumers																										
c. ☐ Processed	o. ☐ Other (specify) _____																										
d. ☐ Purchased																											
e. ☐ Transported Interstate																											
f. ☐ Transported Intrastate																											
g. ☐ Stored Underground																											
h. ☐ Stored LNG																											
i. ☐ Injected Propane-air																											
j. ☐ Produced SNG																											
k. ☐ Imported																											
l. ☐ Exported																											

PART IV: SUPPLY OF NATURAL AND SUPPLEMENTAL GAS RECEIVED WITHIN OR TRANSPORTED INTO REPORT STATE				
	Volume (Mcf at 14.73 psia)	# or f	Cost (Dollars)	# or f
2.0 On-system purchases received:				
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				
	Volume (Mcf at 14.73 psia)	# or f	Cost or Revenue (Dollars)	# or f
9.0 Used in pipeline, storage and/or distribution operations				
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 (-)				

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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 1992, 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 61 percent of total 1992 gross withdrawals. In addition, gross withdrawal data from Kansas, Oklahoma, Louisiana, and Montana, which together accounted for 35 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.

EIA-627 (Revised 1992)

U.S. DEPARTMENT OF ENERGY
Energy Information AdministrationForm Approved
OMB No. 19050175
Expires: 12/31/93

ANNUAL QUANTITY AND VALUE OF NATURAL GAS REPORT

PART I: IDENTIFICATION DATA	
1. Name of State Reporting	2. Calendar Year Being Reported 19 <input type="text"/> <input type="text"/>
3. Name of Office/Agency	4. Office Address (Street, City, State, Zip Code)
5. Name of Contact Person	6. Phone Number
PART II: NATURAL GAS VOLUMES (REPORT ALL VOLUMES IN MILLIONS OF CUBIC FEET)	
Enter the pressure base at which all volumes are reported (psia at 60°F)	
Enter the total number of producing gas wells in operation as of December 31 for the reporting year.	

Public reporting burden for this collection of information is estimated to average 4.7 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, D.C. 20585, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

Month	Gross Withdrawals			Used for Repressuring Etc.	Vented and Flared	Nonhydrocarbon Gases Removed	Natural Gas Used as Fuel on Leases	Marketed Production
	Gas and Condensate Wells	Oil Wells (Casinghead)	Total					
January								
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
TOTAL								

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 ■ P.O. 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) _____

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

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. _____

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.

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

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

UNDERGROUND GAS STORAGE REPORT

I. RESPONDENT IDENTIFICATION DATA

Control (ID) No. _____

Name..... _____

Street or Post Office Box: _____

City, State, Zip Code: _____

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., SW, Washington, DC 20585; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Person to contact if questions arise concerning this report:

Tel. No. (Include Area Code and Extension)

II. GAS STORAGE DATA (All volumes in Mcf - 14.73 psia - 60°F)

Report Period

Mo Yr

Storage Field Name

Location

State

Storage Field Capacity

Reservoir Name(s)

County

Maximum Deliverability (Mcf/d)

☐ Estimated ☐ Actual ☐ Revised

Base Gas

Working Gas

Total Gas
In Storage

Injections

Withdrawals

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)

Peak Day Withdrawals (in Mcf) Date Day

Storage Field Name

Location

State

Storage Field Capacity

Reservoir Name(s)

County

Maximum Deliverability (Mcf/d)

☐ Estimated ☐ Actual ☐ Revised

Base Gas

Working Gas

Total Gas
In Storage

Injections

Withdrawals

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)

Peak Day Withdrawals (in Mcf) Date Day

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)

Title

Signature

Date

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

U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426

Form Approved, OMB No. 1902-0032
(Expires 6-30-90)

FERC FORM NO. 11: NATURAL GAS PIPELINE COMPANY MONTHLY STATEMENT

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.

Company Code Number _____
Month Being Reported 19____

PART I: IDENTIFICATION

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) _____

PART II: REVENUE DATA

Line No. (a)	Item (b)	Revenues (In thousands of dollars)		Sales (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)					

Company Code Number	Month and Year Being Reported
---------------------	-------------------------------

PART III: INCOME DATA

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.)			

PART IV: OTHER SELECTED DATA

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				
PART V: OPERATION AND MAINTENANCE EXPENSE DATA						
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	TOTAL (Enter total of lines 38 and 39)					
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	TOTAL (Enter total of lines 45 to 50)					
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	TOTAL GAS PRODUCTION (Enter total of lines 40, 42, 43, 44, 51, 53 to 61)					
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	TOTAL (Enter total of lines 68 to 70)					
72	All Other Operating and Maintenance Expenses (901-905, 907-916, 920-931, 935)					
73	TOTAL OPERATING AND MAINTENANCE EXPENSES (Enter total of lines 62, 63, 64, 65, 66, 71, 72)					

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 on the survey. The sample was selected independently for each of the 50 States and the District of Columbia from a frame consisting

of all respondents to Form EIA-176 who reported deliveries of natural gas to consumers in the residential, commercial, or industrial sectors. Each selected company is required to complete and file the Form EIA-857 on a monthly basis. Initial response statistics are as follows: responses received by due date, approximately 50 percent, and responses received after follow-up, 100 percent. Virtually all are received in time for incorporation in the current month's processing cycle. When a response is extremely late, and the company represents less than 25 percent of the natural gas volumes delivered by all sampled companies in the State, values are imputed as described in Appendix C. When the company's submission is eventually received, the submitted data are used for future processing and revisions.

The Form EIA-857 is a monthly sample survey of firms delivering natural gas to consumers. It provides data that are used to estimate monthly sales of natural gas (volume and price) by State and monthly deliveries of natural gas on behalf of others (volume) by State to three consumer sectors - residential, commercial, and industrial. (Monthly deliveries and prices of natural gas to electric utilities are reported on the Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and the Form EIA-759, "Monthly Power Plant Report.")

See Appendix C for a discussion of the sample design and estimation procedures.

Summary of Form EIA-857 Data Reporting Requirements

Data collected monthly on the Form EIA-857 on a State level include the volume and cost of purchased gas, the volume and cost of natural gas consumed by sector (residential, commercial, and industrial), and the average heat content of all gas consumed. Respondents file completed forms with EIA in Washington, DC on or before the 30th day after the end of the report month.

All natural gas volumes are reported in thousand cubic feet at 14.73 psia at 60 degrees Fahrenheit and dollar values are reported to the nearest whole dollar.

Routine Form EIA-857 Edit Checks

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

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) ☐ Import ☐ 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			MMBtu (e)	Amount Paid or Received at Entry or Exit Point (f)
		Date (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) × 1000))				ANNUAL WEIGHTED AVERAGE PRICE IN CENTS PER MMBtu (Line 13; Column (f) ÷ Column (e) × 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 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.

Affix Identification Label or Enter:

01 Control No.: _____

02 Company Name: _____

State of Operation: _____

Return completed forms to:

Energy Information Administration
Mail Station: BG-094
U.S. Department of Energy
Washington, D.C. 20585
Attn. Form EIA-857

SECTION I -- Natural Gas Purchases and Deliveries to Consumers

		Report Period Mo.	Yr.	Revised Report Indicator
		03		04
		Volume (Mcf at 14.73 psia)		Cost or Revenue (Dollars)
Purchased Gas Received in Distribution Service Area	05			
Delivered to Residential Consumers (Onsystem Sales)	06			
Delivered to Commercial Consumers (Onsystem Sales)	07			
Delivered to Industrial Consumers (Onsystem Sales)	08			
Delivered to Electric Utilities (Onsystem Sales)	09			
Transported to Residential Consumers	10			Shaded areas not required
Transported to Commercial Consumers	11			
Transported to Industrial Consumers	12			
Transported to Electric Utilities	13			
Total Delivered and Transported to Consumers	14			
Average Btu Content of Gas Delivered to Consumers	15			(Btu/cu. ft.)

SECTION II -- Footnotes

SECTION III -- CONTACT PERSON AND CERTIFICATION

Contact Person: 16 Name:	17 Telephone: (Area Code—Number—Extension)
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

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:

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

where:

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

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

Companies were listed in ascending order according to their measure of size and then a cumulative measure of size in the stratum was calculated for each company. The cumulative measure of size was the sum of the measures of size for that company and all preceding companies on the list. An interval of width I for selecting the companies systematically was calculated using ($I = \frac{X_2}{m}$). A uniform random number R was selected between zero and I. The first sampled company was the first company on the list to have a cumulative measure of size greater than R. The second company selected was the first company on the list to have a 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 X_2 was the sum within State of the X_i for only those companies in the subgroup.

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

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

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:

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

where:

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

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

Computation of Natural Gas Prices. The natural gas volumes that are included in the computation of prices represent only those volumes associated with natural gas sales.

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

$$P_j = \frac{R_j}{V_j}$$

where:

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

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, October 1993

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	42	409	2,445	2,480	0.21	0.31	0.92
Alaska	0	0	0	0	—	—	—
Arizona	12	13	0	18	.05	.02	—
Arkansas	64	157	136	217	.25	.08	.05
California	210	227	2,259	2,280	.03	.07	.26
Colorado	35	28	0	44	.01	.01	—
Connecticut	0	0	0	0	—	—	—
Delaware	0	0	0	0	—	—	—
District of Columbia	0	0	0	0	—	—	—
Florida	23	59	1,686	1,688	.40	.04	.19
Georgia	1,543	1,157	1,209	2,277	.07	.21	1.10
Hawaii	0	0	0	0	—	—	—
Idaho	0	0	0	0	—	—	—
Illinois	9,277	6,485	2,618	11,617	.53	.81	.26
Indiana	801	317	828	1,195	.88	.65	.68
Iowa	148	92	179	250	.36	.20	.04
Kansas	483	6,537	9,468	11,516	.13	1.76	5.00
Kentucky	755	387	222	877	.32	.15	.62
Louisiana	157	32	1,020	1,033	.44	.24	.06
Maine	0	0	0	0	—	—	—
Maryland	10	4	44	45	.01	.01	.22
Massachusetts	43	102	563	573	.39	.30	.10
Michigan	1,363	938	139	1,660	.12	.10	.48
Minnesota	233	328	651	766	.01	.01	.22
Mississippi	117	27	232	261	.56	.28	.09
Missouri	187	322	686	780	.49	.78	6.11
Montana	4	3	0	5	.02	.01	—
Nebraska	91	48	224	247	.07	.02	.17
Nevada	0	0	0	0	—	—	—
New Hampshire	0	0	0	0	—	—	—
New Jersey	0	0	0	0	—	—	—
New Mexico	120	478	259	557	.09	1.86	—
New York	532	1,234	1,855	2,291	2.14	.29	1.38
North Carolina	29	13	218	220	.17	.10	.20
North Dakota	0	0	0	0	—	—	—
Ohio	792	978	1,799	2,195	.22	.15	.13
Oklahoma	11	71	NA	75	.01	.12	—
Oregon	0	0	0	0	—	—	—
Pennsylvania	43	77	2,440	2,442	.17	.13	.65
Rhode Island	0	0	0	0	—	—	—
South Carolina	5	418	845	943	.19	.50	.36
South Dakota	0	0	0	0	—	—	—
Tennessee	258	108	794	841	1.35	.13	.12
Texas	1,019	3,509	29,539	29,764	.39	1.13	.22
Utah	0	0	0	0	—	—	—
Vermont	0	0	0	0	—	—	—
Virginia	366	252	462	641	.35	.50	.52
Washington	NA	NA	NA	0	—	—	—
West Virginia	797	335	269	905	.12	2.44	.32
Wisconsin	1,412	2,041	899	2,640	.13	.64	.84
Wyoming	22	32	384	385	.04	.14	.18
U.S. Totals	9,836	10,359	31,669	34,742	.26	.25	.23

NA = Not Available.

— = 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:

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

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

Natural Gas Reports and Feature Articles

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

- *Natural Gas Annual 1992*, DOE/EIA-0131(92), November 1993.
- *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 - 1992 Annual Report*, DOE/EIA-0216(92), October 1993.
- *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

- *U.S. Production of Natural Gas from Tight Reservoirs*, DOE/EIA-TR-0574, October 1993
- *Energy Policy Act Transportation Rate Study*, DOE/EIA-0571, October 1993
- *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.

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

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.)

August 1993

U.S. Natural Gas Imports and Exports - 1992

(Contains final 1992 data on all U.S. imports and exports of natural gas.)

October 1993

U.S. Production of Natural Gas from Tight Reservoirs

(Discusses the economic incentives offered to induce operators to explore for and develop gas reservoirs from unconventional sources.)

The Expanding Role of Underground Storage

(Discusses the expanded role of underground natural gas storage in the restructured natural gas industry.)

Appendix E

Technical Contacts

Appendix E

Technical Contacts

Section	Tables		Principal Data Sources	Technical Contact
Summary Statistics:				
Natural Gas Production and Consumption	1, 2, 3	Monthly:	Interstate Oil and Gas Compact Commission (IOGCC)	Donna Guerrina (202) 586-6135
		Annual:	EIA-627, "Annual Quantity and Value of Natural Gas Report"	
		Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Extraction Loss	1	Monthly:	EIA computations	Margo Natof (202) 586-6303
		Annual:	Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"	
Supplemental Gaseous Fuels	2	Monthly:	EIA computations	Donna Guerrina (202) 586-6135
		Annual:	Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"	Margo Natof (202) 586-6303
Imports and Exports	2	Monthly:	EIA computations	Norman Crabtree (202) 586-6181
		Annual:	Form FPC-14, "Annual Reports for Importers and Exporters of Natural Gas"	
Price:				
City Gate, Residential, Commercial, and Industrial	4	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Imports and Purchases from Producers	4	Monthly:	Form FERC-11, "Natural Gas Pipeline Company Monthly Statement"	James Keeling (202) 586-6107
Wellhead	4	Monthly:	EIA computations	Donna Guerrina (202) 586-6135
		Annual:	Form EIA-627, "Annual Quantity and Value of Natural Gas Report"	
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 Guerrina (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
Distribution and Consumption:				
Deliveries to:				
Residential,	18	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Commercial,	19			
Industrial,	20			
Electric Utility,	21		Form FERC-423, "Cost and Quality of Fuels for Electric Power Plants"	
All Consumers	22			
Average Price to:				

City Gate	23	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Residential,	24		Natural Gas Purchases and Deliveries	(202) 586-4790
Commercial,	25		to Consumers"	
Industrial,	26		Form FERC-423, "Cost and Quality	
Electric Utility	27		of Fuels for Electric Power Plants"	
Onsystem Sales	28	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
			Natural Gas Purchases and Deliveries	(202) 586-4790
			to Consumers"	
Heating Degree Days	29	Seasonal:	National Oceanic and Atmospheric	Rosemary Jameson
			Administration	(202) 586-6229
Highlights				Carol Jones
				(202) 586-6168
Industry Overview				Eva Fleming
				(202) 586-6113

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 certificated by FERC. Independent producer and intrastate company reservoir capacities are reported as developed capacity.

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

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

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

END

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3/8/94