

# Natural Gas Monthly July 1993

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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

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

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# 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 1,585 billion cubic feet in May 1993 (Table 1). This is 3 percent higher than in May 1992.

The total gas supply available for disposition in May 1993 was an estimated 1,887 billion cubic feet, 6 percent higher than in May 1992 (Table 2). The May 1993 total includes 25 billion cubic feet withdrawn from storage, 8 billion cubic feet of supplemental fuel supplies, and 161 billion cubic feet of imported gas.

On the disposition side, the consumption of 1,427 billion cubic feet was 14 percent less than in April 1993 and 1 percent less than in May 1992 (Table 2). Total disposition included 448 billion cubic feet of gas injected into underground storage reservoirs and exports of 12 billion cubic feet.

## Consumption

Data for the four major end-use sectors indicate that the total amount of gas delivered to all consumers decreased to 1,511 billion cubic feet in April 1993, from 1,937 billion cubic feet in March 1993 (Table 3). Consumption in the industrial sector decreased from 669 billion cubic feet in March 1993 to 624 billion cubic feet in April 1993, a decrease of 7 percent.

The electric utility sector consumed 174 billion cubic feet in April 1993, which is 10 percent less than in March 1993 and a 24-percent decrease from April 1992.

The residential sector consumed 454 billion cubic feet in April 1993, 5 percent greater than in April 1992. The commercial sector consumed 259 billion cubic feet in April 1993, 5 percent higher than in April 1992.

## Prices

In April 1993, major interstate pipeline companies paid an average of \$2.34 per thousand cubic feet for gas purchased from domestic producers, 6 percent higher than March's \$2.20 price and a 35 percent increase from the \$1.73 paid in April 1992 (Table 4). In April 1993, these pipeline companies paid \$2.15 per thousand cubic feet for imported gas.

Distributors paid an average \$3.24 per thousand cubic feet for gas at the city gate in April 1993. This is 6 percent higher than what these distributors paid in March 1993 and 18 percent greater than they paid in April 1992. Residential consumers paid \$5.98 per thousand cubic feet in April 1993, 7 percent higher than what they paid in April 1992. Commercial consumers paid \$5.11 per thousand cubic feet in April 1993, 1 percent greater than the \$5.06 paid in March 1993, and 7 percent higher than what they paid in April 1992.

Industrial consumers paid \$3.13 per thousand cubic feet in April 1993, a 1-percent increase from the March 1993 price of \$3.09 and 24 percent greater than in April 1992. Electric utilities paid an average of \$2.61 per thousand cubic feet in March 1993, an increase of 2 percent from the \$2.55 per thousand cubic feet paid in February 1993.

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

Year and Month	Gross Withdrawals	Repressuring	Nonhydrocarbon Gases Removed <sup>a</sup>	Vented and Flared	Marketed Production (Wet)	Extraction Loss <sup>b</sup>	Total Dry Gas Production <sup>c</sup>
<b>1987 Total</b> .....	20,140	2,208	376	124	17,433	812	16,621
<b>1988 Total</b> .....	20,999	2,478	460	143	17,918	816	17,103
<b>1989 Total</b> .....	21,074	2,475	362	142	18,095	785	17,311
<b>1990 Total</b> .....	21,523	2,489	289	150	18,594	784	17,810
<b>1991</b>							
January .....	1,963	235	24	13	1,692	76	1,616
February .....	1,741	221	22	12	1,487	67	1,420
March .....	1,894	245	24	13	1,612	72	1,539
April .....	1,804	234	21	14	1,536	69	1,467
May .....	1,791	227	23	15	1,526	69	1,458
June .....	1,717	226	22	14	1,455	65	1,389
July .....	1,744	236	23	16	1,469	66	1,403
August .....	1,744	231	23	15	1,474	66	1,408
September .....	1,720	214	24	14	1,468	66	1,402
October .....	1,868	245	23	15	1,585	71	1,513
November .....	1,869	226	23	15	1,605	72	1,533
December .....	1,948	231	24	15	1,678	75	1,603
<b>Total</b> .....	21,803	2,772	276	170	18,586	835	17,751
<b>1992</b>							
January .....	1,941	248	24	16	1,653	75	1,578
February .....	1,741	242	22	13	1,464	66	1,398
March .....	1,835	261	22	14	1,537	69	1,468
April .....	1,790	248	23	14	1,505	68	1,437
May .....	1,829	249	22	14	1,544	70	1,475
June .....	1,794	242	22	14	1,515	68	1,447
July .....	1,827	242	23	15	1,547	70	1,477
August .....	1,790	242	22	14	1,510	68	1,442
September .....	1,774	252	20	15	1,487	67	1,420
October .....	1,891	261	23	14	1,593	72	1,521
November .....	1,905	<sup>R</sup> 259	23	15	<sup>R</sup> 1,608	73	1,536
December .....	1,962	273	23	15	1,651	74	1,577
<b>Total</b> .....	22,078	3,019	269	174	18,617	840	17,777
<b>1993</b>							
January .....	<sup>R</sup> 1,992	<sup>R</sup> 269	<sup>R</sup> 22	15	<sup>R</sup> 1,686	76	<sup>R</sup> 1,610
February .....	<sup>R</sup> 1,774	<sup>R</sup> 245	<sup>R</sup> 22	14	<sup>R</sup> 1,493	<sup>R</sup> 67	<sup>R</sup> 1,426
March .....	<sup>R</sup> 1,948	<sup>R</sup> 265	<sup>R</sup> 22	<sup>R</sup> 13	<sup>R</sup> 1,649	<sup>R</sup> 74	<sup>R</sup> 1,575
April .....	<sup>E</sup> 1,818	<sup>E</sup> 253	<sup>E</sup> 22	<sup>E</sup> 14	<sup>E</sup> 1,529	<sup>E</sup> 69	<sup>E</sup> 1,460
May .....	<sup>E</sup> 1,869	<sup>E</sup> 250	<sup>E</sup> 21	<sup>E</sup> 13	<sup>E</sup> 1,585	<sup>E</sup> 71	<sup>E</sup> 1,514
<b>1993 YTD</b> .....	9,402	1,282	109	69	7,943	358	7,585
<b>1992 YTD</b> .....	9,136	1,248	113	71	7,704	347	7,357
<b>1991 YTD</b> .....	9,193	1,162	113	66	7,852	353	7,499

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

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

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

<sup>E</sup> = Estimated Data.

<sup>R</sup> = Revised Data.

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

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

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

Year and Month	Supply					Total Supply/Disposition <sup>d</sup>	Disposition		
	Total Dry Gas Production	Withdrawals from Storage <sup>a</sup>	Supplemental Gaseous Fuels <sup>b</sup>	Imports	Balancing Item <sup>c</sup>		Additions to Storage <sup>a</sup>	Exports	Consumption <sup>a</sup>
<b>1987 Total</b> .....	16,621	1,905	101	993	-444	19,176	1,911	54	17,211
<b>1988 Total</b> .....	17,103	2,270	101	1,294	-453	20,315	2,211	74	18,030
<b>1989 Total</b> .....	17,311	2,854	107	1,382	-218	21,435	2,528	107	18,801
<b>1990 Total</b> .....	17,810	1,986	123	1,532	-149	21,302	2,499	86	18,716
<b>1991</b>									
January .....	1,616	682	11	163	-39	2,433	115	10	2,308
February .....	1,420	409	10	138	67	2,044	112	11	1,920
March .....	1,539	297	11	151	-11	1,987	129	10	1,848
April .....	1,467	104	10	144	69	1,793	234	9	1,550
May .....	1,458	58	9	141	17	1,683	331	8	1,344
June .....	1,389	42	8	133	-34	1,538	326	7	1,206
July .....	1,403	75	9	135	-25	1,597	299	8	1,291
August .....	1,408	82	9	127	-44	1,582	290	10	1,281
September .....	1,402	78	8	134	-69	1,552	304	11	1,238
October .....	1,513	103	10	157	-85	1,698	258	14	1,426
November .....	1,533	360	9	169	-207	1,864	150	15	1,699
December .....	1,603	461	10	181	-95	2,160	125	18	2,018
<b>Total</b> .....	17,751	2,752	113	1,773	-457	21,932	2,672	129	19,129
<b>1992</b>									
January .....	1,578	572	12	175	R -17	R 2,320	57	17	R 2,246
February .....	1,398	436	11	171	R 94	R 2,109	53	14	R 2,043
March .....	1,468	370	11	178	R 23	R 2,050	73	25	R 1,953
April .....	1,437	140	10	179	R 117	R 1,883	159	18	R 1,706
May .....	1,475	50	9	175	R 69	R 1,778	321	20	R 1,437
June .....	1,447	40	8	157	R 1	R 1,654	358	22	R 1,273
July .....	1,477	52	8	171	R -11	R 1,698	352	20	R 1,326
August .....	1,442	62	9	167	R -23	R 1,657	358	22	R 1,278
September .....	1,420	52	9	169	R -21	R 1,629	336	23	R 1,270
October .....	1,521	80	10	170	R -111	R 1,670	262	22	R 1,385
November .....	1,536	267	11	167	R -182	R 1,798	94	19	R 1,686
December .....	1,577	535	12	205	R -130	R 2,199	57	19	R 2,123
<b>Total</b> .....	17,777	2,656	120	2,083	R -191	R 22,445	2,479	240	R 19,726
<b>1993</b>									
January .....	R 1,610	600	13	198	R -79	2,343	45	E 18	2,279
February .....	R 1,426	581	11	183	R -10	2,191	30	E 15	R 2,145
March .....	R 1,575	385	R 12	R 199	R 43	R 2,213	81	E 18	R 2,114
April .....	E 1,460	109	E 10	RE 182	R 138	R 1,898	222	E 12	R 1,664
May .....	E 1,514	25	E 8	E 161	179	1,887	448	E 12	E 1,427
<b>1993 YTD</b> .....	7,585	1,700	53	923	271	10,532	826	77	9,629
<b>1992 YTD</b> .....	7,357	1,568	53	878	286	10,141	663	93	9,384
<b>1991 YTD</b> .....	7,499	1,551	50	738	102	9,940	921	47	8,971

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

<sup>b</sup> Supplemental gaseous fuels data are only collected on an annual basis except for the Dakota Gasification Inc. coal gasification facility where they are gathered each month. The ratio of annual supplemental fuels (excluding Dakota Gasification Inc.) to the sum of dry gas production, net imports, and net withdrawals from storage is calculated. This ratio, which varies between .0028 and .0037, is applied to the monthly sum of these three elements. The Dakota Gasification Inc. monthly value is added to the result to produce the monthly supplemental fuels estimate.

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

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

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

E = Estimated Data.

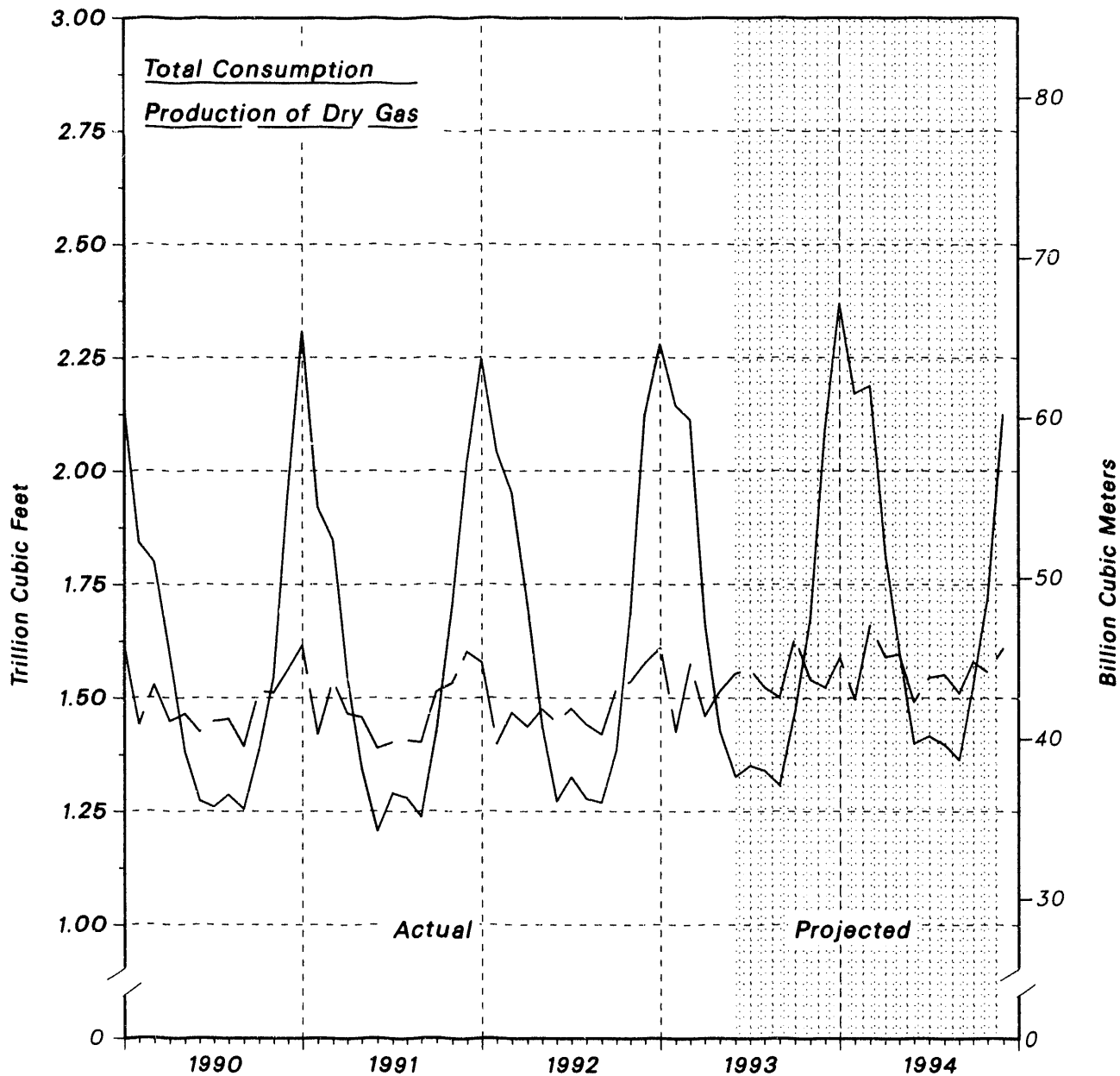
R = Revised Data.

RE = Revised Estimated Data.

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

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

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



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

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

Year and Month	Lease and Plant Fuel <sup>a</sup>	Pipeline Fuel <sup>b</sup>	Delivered to Consumers					Total Consumption
			Residential	Commercial	Industrial	Electric Utilities	Total	
<b>1987 Total</b> .....	1,149	519	4,315	2,430	5,953	2,844	15,542	17,211
<b>1988 Total</b> .....	1,096	614	4,630	2,670	6,383	2,636	16,320	18,030
<b>1989 Total</b> .....	1,070	629	4,781	2,718	6,816	2,787	17,102	18,801
<b>1990 Total</b> .....	1,236	660	4,391	2,623	7,018	2,787	16,820	18,716
<b>1991</b>								
January .....	104	81	844	434	672	173	2,123	2,308
February .....	92	68	664	359	591	146	1,761	1,920
March .....	100	65	573	311	607	193	1,683	1,848
April .....	95	55	373	226	586	216	1,400	1,550
May .....	94	47	229	154	571	249	1,202	1,344
June .....	90	42	148	119	546	260	1,073	1,206
July .....	92	45	126	125	572	330	1,153	1,291
August .....	92	45	118	113	586	328	1,144	1,281
September .....	91	44	138	121	582	263	1,104	1,238
October .....	98	50	225	163	626	263	1,278	1,426
November .....	99	60	459	256	627	198	1,540	1,699
December .....	103	71	658	350	665	170	1,844	2,018
<b>Total</b> .....	1,150	674	4,556	2,730	7,231	2,789	17,305	19,129
<b>1992</b>								
January .....	102	79	R 787	405	R 704	169	R 2,064	R 2,246
February .....	91	72	R 695	362	R 652	170	R 1,880	R 2,043
March .....	95	69	578	313	R 690	208	R 1,788	R 1,953
April .....	93	60	R 431	247	R 646	229	R 1,553	R 1,706
May .....	96	51	R 251	168	R 635	236	R 1,290	R 1,437
June .....	94	45	162	123	R 584	266	R 1,135	R 1,273
July .....	96	47	132	121	R 597	334	R 1,184	R 1,326
August .....	94	45	126	120	R 591	303	R 1,139	R 1,278
September .....	92	45	137	119	R 603	274	R 1,133	R 1,270
October .....	99	49	241	164	R 620	213	R 1,238	R 1,385
November .....	100	R 59	R 439	R 252	R 646	189	R 1,527	R 1,686
December .....	102	75	719	374	R 677	176	R 1,946	R 2,123
<b>Total</b> .....	1,154	R 695	R 4,699	R 2,767	R 7,645	2,766	R 17,877	R 19,726
<b>1993</b>								
January .....	105	80	832	418	680	164	2,094	2,279
February .....	93	76	765	405	645	182	1,977	R 2,145
March .....	R 102	R 75	702	372	669	194	1,937	R 2,114
April .....	95	59	454	259	624	174	1,511	1,664
<b>1993 YTD</b> .....	394	289	2,753	1,454	2,618	694	7,519	8,202
<b>1992 YTD</b> .....	382	280	2,492	1,326	2,692	776	7,286	7,948
<b>1991 YTD</b> .....	391	269	2,454	1,329	2,456	728	6,967	7,627

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

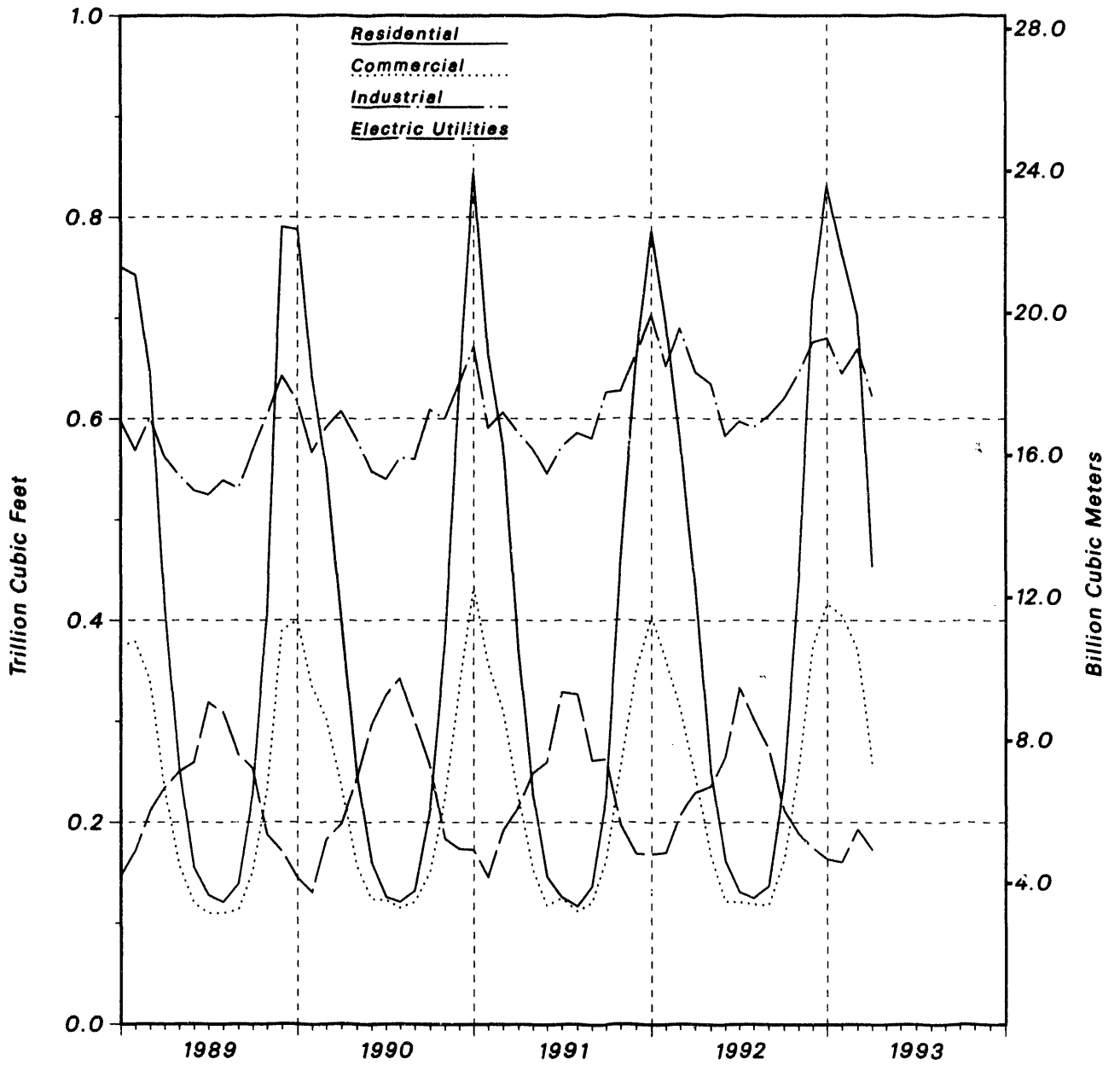
<sup>b</sup> Pipeline fuel use is only collected on an annual basis. Annually it is between 3 and 4 percent of total consumption. Monthly pipeline fuel data are estimated from monthly total consumption (excluding pipeline fuel) by assuming that the preceding annual percentage remains constant for the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

R = Revised Data.

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

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

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



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

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

Year and Month	Wellhead Price <sup>a</sup>	Major Interstate Pipeline Companies		City Gate	Delivered to Consumers			
		Imports <sup>b</sup>	Purchased from Producers <sup>b</sup>		Residential	Commercial	Industrial	Electric Utilities <sup>c</sup>
<b>1987 Annual Average</b> .....	1.67	2.17	2.10	2.87	5.54	4.77	2.94	2.32
<b>1988 Annual Average</b> .....	1.69	2.00	2.13	2.92	5.47	4.63	2.95	2.33
<b>1989 Annual Average</b> .....	1.69	2.04	2.18	3.01	5.64	4.74	2.96	2.43
<b>1990 Annual Average</b> .....	1.71	2.03	2.19	3.03	5.80	4.83	2.93	2.39
<b>1991</b>								
January .....	1.96	2.20	2.19	3.08	5.54	4.94	3.25	2.70
February .....	1.62	2.10	1.93	2.94	5.56	4.94	2.97	2.35
March .....	1.49	1.92	2.02	2.78	5.60	4.89	2.75	2.21
April .....	1.50	2.03	1.87	2.74	5.90	4.87	2.68	2.10
May .....	1.48	1.99	1.96	2.76	6.28	4.65	2.40	2.01
June .....	1.43	2.03	1.75	2.86	6.98	4.80	2.34	1.94
July .....	1.34	2.11	1.79	2.74	7.23	4.50	2.23	1.88
August .....	1.43	1.71	1.71	2.78	7.36	4.73	2.29	1.96
September .....	1.59	1.84	1.76	2.91	6.92	4.57	2.40	2.19
October .....	1.82	2.00	1.94	2.92	6.20	4.58	2.69	2.35
November .....	1.89	2.20	2.02	2.92	5.51	4.71	2.84	2.43
December .....	2.00	2.09	2.11	3.05	5.51	4.84	3.09	2.64
<b>Annual Average</b> .....	1.64	2.02	1.92	2.90	5.82	4.81	2.69	2.18
<b>1992</b>								
January .....	1.73	2.20	2.10	2.90	5.53	4.85	3.05	2.49
February .....	1.31	1.98	1.70	2.71	5.53	5.04	2.79	2.03
March .....	1.40	1.45	1.90	2.62	5.48	4.77	2.58	1.99
April .....	1.47	2.01	<sup>R</sup> 1.73	2.75	5.61	4.78	2.53	2.07
May .....	1.57	1.79	1.99	2.90	6.14	4.59	2.44	2.11
June .....	1.68	2.03	2.16	3.01	6.82	4.72	2.52	2.18
July .....	1.61	1.89	1.86	3.01	7.23	4.63	2.50	2.15
August .....	1.91	1.82	2.14	3.18	7.40	4.72	<sup>R</sup> 2.68	2.42
September .....	1.99	2.05	2.13	3.24	7.11	4.69	2.78	2.51
October .....	2.46	2.13	2.69	3.49	<sup>R</sup> 6.20	<sup>R</sup> 4.64	2.98	3.04
November .....	2.20	2.32	2.37	3.33	5.99	5.11	3.24	2.87
December .....	2.14	1.92	2.40	3.17	5.71	5.11	3.34	2.81
<b>Annual Average</b> .....	1.80	1.97	<sup>R</sup> 2.10	3.01	5.86	4.87	2.81	2.37
<b>1993</b>								
January .....	2.05	2.02	2.17	3.10	<sup>R</sup> 5.71	5.17	3.25	2.70
February .....	1.79	1.91	1.94	<sup>R</sup> 2.94	5.71	5.08	3.12	2.55
March .....	<sup>R</sup> 1.97	1.78	2.20	3.06	5.67	5.06	3.09	2.61
April .....	<sup>E</sup> 2.10	2.15	2.34	3.24	5.98	5.11	3.13	NA
<b>1993 YTD</b> .....	1.98	1.96	2.16	3.07	5.74	5.10	3.15	2.62
<b>1992 YTD</b> .....	1.48	1.91	1.86	2.75	5.53	4.87	2.75	2.16
<b>1991 YTD</b> .....	1.64	2.06	2.00	2.92	5.61	4.92	2.93	2.42

NA

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

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

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

<sup>R</sup> = Revised Data.

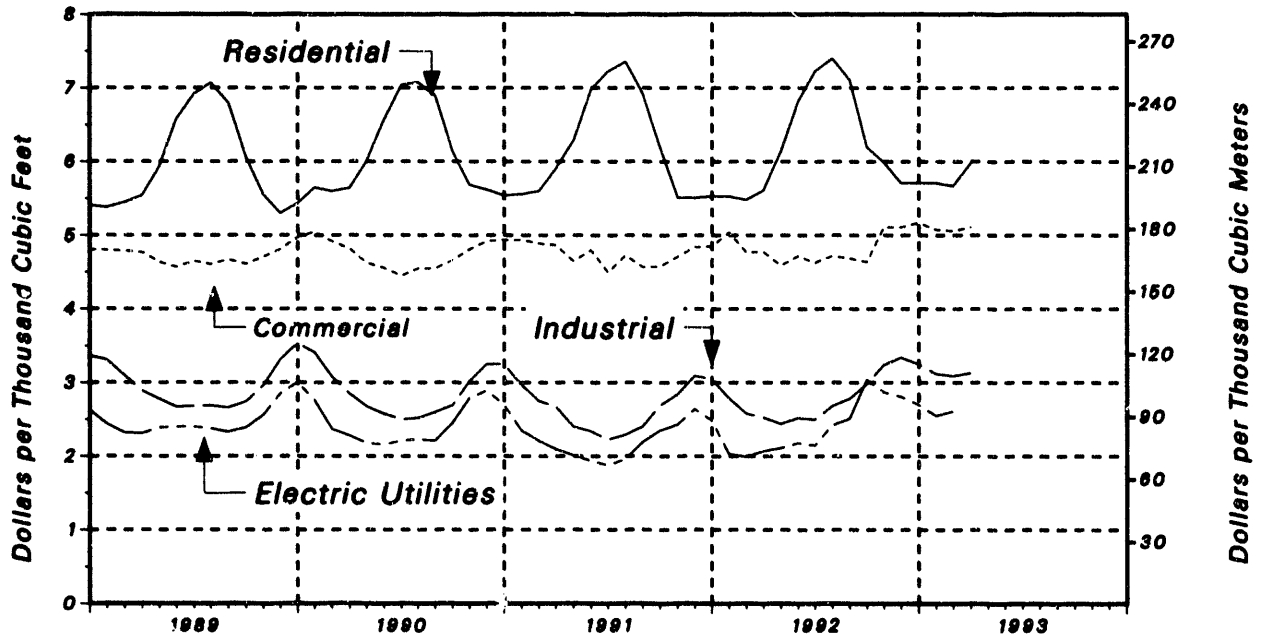
<sup>E</sup> = Estimated Data.

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

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

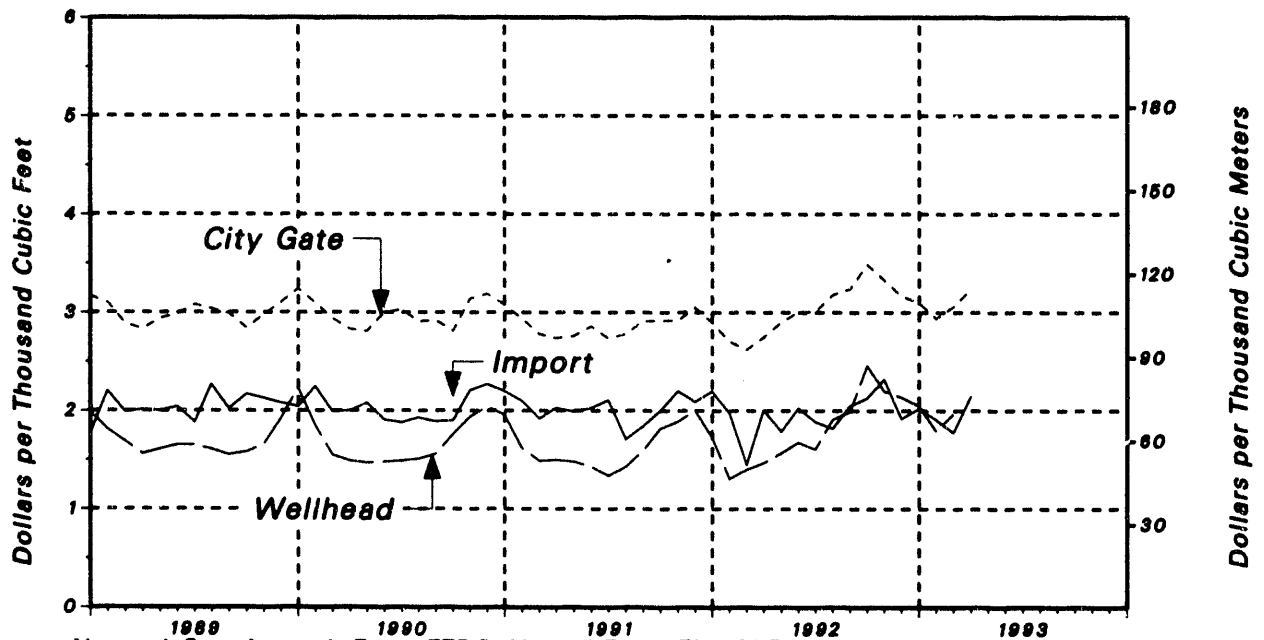


**Figure 3. Average Price of Natural Gas Delivered to Consumers in the United States, 1989-1993**



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

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



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

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

Year and Month	Pipeline		LNG		Total	
	Canada		Algeria		Volume	Average Price
	Volume	Average Price	Volume	Average Price		
<b>1987 Total</b> .....	992,532	1.95	0	—	992,532	1.95
<b>1988 Total</b> .....	1,276,322	1.83	17,490	2.71	1,293,812	1.84
<b>1989 Total</b> .....	1,339,357	1.81	42,163	2.22	1,381,520	1.82
<b>1990 Total</b> .....	1,448,065	1.91	84,193	2.47	1,532,259	1.94
<b>1991</b>						
January .....	155,805	2.06	7,643	2.94	163,448	2.11
February .....	132,962	1.89	5,035	2.49	137,998	1.92
March .....	146,383	1.83	5,105	2.91	151,487	1.86
April .....	138,833	1.79	5,122	1.93	143,955	1.79
May .....	136,202	1.74	5,091	1.66	141,292	1.74
June .....	130,701	1.72	2,562	1.68	133,264	1.72
July .....	129,768	1.67	5,091	1.86	134,859	1.68
August .....	127,139	1.60	0	—	127,139	1.60
September .....	131,345	1.67	2,589	1.66	133,934	1.67
October .....	146,489	1.76	10,146	2.41	156,635	1.80
November .....	163,605	1.89	5,113	2.48	168,718	1.91
December .....	170,485	1.94	10,099	2.63	180,585	1.98
<b>Total</b> .....	1,709,716	1.81	63,596	2.36	1,773,313	1.83
<b>1992</b>						
January .....	166,996	1.89	7,549	2.29	174,545	1.90
February .....	165,924	1.70	5,076	2.52	171,000	1.73
March .....	175,495	1.72	2,503	2.24	177,998	1.73
April .....	176,468	1.67	2,531	2.02	178,999	1.66
May .....	175,000	1.73	0	—	175,000	1.73
June .....	154,495	1.74	2,505	2.01	157,000	1.75
July .....	171,000	1.78	0	—	171,000	1.78
August .....	164,508	1.87	2,492	2.73	167,000	1.88
September .....	166,000	1.89	2,533	1.67	168,533	1.89
October .....	167,437	2.16	2,563	2.21	170,000	2.16
November .....	159,367	2.08	7,508	2.64	166,875	2.10
December .....	197,800	2.16	7,416	2.21	205,216	2.16
<b>Total</b> .....	2,040,490	1.87	42,677	2.33	2,083,167	1.88
<b>1993</b>						
January .....	192,899	NA	5,141	NA	198,039	NA
February .....	175,444	NA	7,654	NA	183,097	NA
March .....	<sup>R</sup> 193,830	NA	5,146	NA	<sup>R</sup> 198,976	NA
April .....	<sup>RE</sup> 173,817	NA	7,720	NA	<sup>RE</sup> 181,536	NA
May .....	<sup>E</sup> 156,211	NA	5,236	NA	<sup>E</sup> 161,446	NA
<b>1993 YTD</b> .....	892,200	NA	30,895	NA	923,095	NA
<b>1992 YTD</b> .....	859,883	1.74	17,659	2.31	877,542	1.74
<b>1991 YTD</b> .....	710,185	1.86	27,995	2.43	738,180	1.88

NA = Not Available.  
— = Not Applicable.  
<sup>R</sup> = Revised Data.  
<sup>E</sup> = Estimated Data.  
<sup>RE</sup> = Revised Estimated data.

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

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

Year and Month	Pipeline				LNG		Total	
	Canada		Mexico		Japan		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price		
<b>1987 Total</b> .....	3,297	1.81	2,125	3.18	48,599	3.15	54,020	3.07
<b>1988 Total</b> .....	19,738	2.02	2,327	3.21	51,573	2.99	73,638	2.74
<b>1989 Total</b> .....	38,443	2.00	17,004	2.14	51,424	3.01	106,871	2.51
<b>1990 Total</b> .....	17,359	2.70	15,659	1.88	52,546	3.59	85,565	3.10
<b>1991</b>								
January .....	1,710	2.47	3,477	2.19	4,375	5.19	9,562	3.61
February .....	3,343	2.02	2,853	1.70	4,370	4.79	10,586	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	1.48	2,947	3.23	7,744	2.14
June .....	31	1.51	3,759	1.43	2,915	3.18	6,706	2.19
July .....	195	1.24	3,235	1.28	4,400	3.20	7,830	2.36
August .....	540	1.21	3,117	1.40	5,869	3.25	9,526	2.53
September .....	446	1.30	5,921	1.68	4,370	3.31	10,737	2.32
October .....	2,245	1.57	7,776	1.84	4,371	3.39	14,393	2.27
November .....	2,385	1.87	8,349	2.00	4,371	3.50	15,105	2.41
December .....	2,630	1.97	9,586	2.12	5,820	3.61	18,036	2.58
<b>Total</b> .....	14,791	1.91	60,448	1.76	54,005	3.71	129,244	2.59
<b>1992</b>								
January .....	2,434	1.88	9,892	1.76	4,368	3.65	16,694	2.27
February .....	3,841	1.44	5,996	1.22	4,367	3.51	14,004	1.99
March .....	13,533	2.17	6,760	1.39	4,367	3.34	24,660	2.16
April .....	6,809	1.38	6,508	1.53	4,404	3.28	17,721	1.91
May .....	7,919	1.61	6,736	1.71	5,828	3.30	20,383	2.13
June .....	11,755	1.80	6,314	1.78	4,380	3.38	22,449	2.10
July .....	9,490	1.73	6,041	1.69	4,380	3.50	19,911	2.11
August .....	7,678	1.93	9,507	1.97	4,377	3.30	21,562	2.23
September .....	11,171	2.07	7,123	2.03	4,407	3.38	22,701	2.31
October .....	9,555	2.44	9,563	2.69	2,920	3.67	22,038	2.71
November .....	4,086	2.16	10,201	2.25	4,511	3.63	18,798	2.56
December .....	7,581	2.30	7,511	2.17	4,230	3.69	19,322	2.55
<b>Total</b> .....	95,552	1.95	92,152	1.90	52,539	3.46	240,244	2.26
<b>1993</b>								
January .....	E 5,000	NA	E 9,000	NA	4,367	NA	E 18,367	NA
February .....	E 5,000	NA	E 6,000	NA	4,355	NA	E 15,355	NA
March .....	E 5,000	NA	E 7,500	NA	5,812	NA	E 18,312	NA
April .....	E 4,000	NA	E 4,000	NA	4,373	NA	E 12,373	NA
May .....	E 5,000	NA	E 3,000	NA	4,381	NA	E 12,381	NA
<b>1993 YTD</b> .....	24,000	NA	29,500	NA	23,288	NA	76,788	NA
<b>1992 YTD</b> .....	34,236	1.78	35,892	1.54	23,334	3.40	93,462	2.10
<b>1991 YTD</b> .....	6,319	2.14	18,705	1.68	21,889	4.20	46,912	2.92

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

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

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

Year and Month	Alabama	Alaska	California	Colorado	Florida	Kansas
<b>1987 Total</b> .....	117,241	359,837	424,621	164,557	8,281	472,752
<b>1988 Total</b> .....	129,524	378,638	399,683	181,544	7,484	592,845
<b>1989 Total</b> .....	128,411	393,729	362,860	216,737	7,534	601,196
<b>1990 Total</b> .....	135,276	402,907	362,748	242,997	6,483	573,603
<b>1991</b>						
January .....	13,267	40,203	30,159	20,110	290	63,891
February .....	11,866	36,265	27,015	23,344	285	54,601
March .....	13,131	38,847	32,268	23,648	325	57,863
April .....	13,020	34,664	30,902	24,673	412	51,936
May .....	13,906	32,434	31,072	22,724	301	50,733
June .....	13,174	33,065	29,259	23,034	94	46,685
July .....	14,400	33,840	32,169	23,088	381	44,912
August .....	15,273	33,448	31,021	23,659	465	42,777
September .....	11,850	41,609	31,944	22,546	543	43,491
October .....	15,207	36,384	35,427	23,868	602	50,386
November .....	15,502	38,363	34,194	24,349	591	57,959
December .....	20,250	38,700	32,953	30,918	594	63,225
<b>Total</b> .....	170,847	437,821	378,384	285,961	4,884	628,459
<b>1992</b>						
January .....	21,500	40,822	31,214	27,414	590	61,006
February .....	21,725	37,412	28,599	25,451	543	56,379
March .....	21,965	38,566	30,382	24,568	514	52,470
April .....	22,044	37,247	30,176	25,138	502	47,019
May .....	20,938	37,143	30,712	26,318	534	50,327
June .....	22,824	34,258	28,051	26,270	600	50,321
July .....	24,148	35,055	29,379	25,501	568	48,577
August .....	23,567	32,864	28,522	27,256	568	47,713
September .....	23,640	32,330	27,729	26,275	567	45,487
October .....	25,150	39,173	28,844	27,556	662	53,782
November .....	24,387	38,519	26,646	28,460	600	62,632
December .....	24,854	40,928	26,828	32,046	599	68,404
<b>Total</b> .....	276,742	444,317	347,082	322,253	6,847	644,117
<b>1993</b>						
January .....	24,591	41,375	26,936	29,601	637	64,279
February .....	22,157	35,689	24,005	29,041	573	57,265
March .....	32,077	41,674	27,133	28,775	540	59,456
<b>1993 YTD</b> .....	78,825	118,738	78,074	87,417	1,750	180,993
<b>1992 YTD</b> .....	65,190	116,800	90,195	77,433	1,647	169,855
<b>1991 YTD</b> .....	38,264	115,316	89,443	67,102	901	176,355

See footnotes at end of table.

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

Year and Month	Louisiana	Michigan	Mississippi	Montana	New Mexico	North Dakota
<b>1987 Total</b> .....	5,122,509	146,996	130,727	46,456	823,773	62,258
<b>1988 Total</b> .....	5,180,267	146,145	124,053	51,654	791,819	57,747
<b>1989 Total</b> .....	5,078,125	155,988	102,645	51,307	854,615	51,174
<b>1990 Total</b> .....	5,241,989	172,151	94,616	50,429	965,104	52,169
<b>1991</b>						
January .....	468,582	15,493	9,113	5,235	96,319	4,640
February .....	408,976	13,850	7,601	4,433	79,943	4,162
March .....	440,392	17,320	9,021	4,779	89,186	4,588
April .....	421,648	18,019	9,345	4,786	86,221	4,351
May .....	415,252	19,521	9,745	4,516	86,029	4,419
June .....	388,441	15,994	9,498	3,467	81,862	4,481
July .....	387,062	16,468	9,487	3,501	77,279	4,787
August .....	392,981	15,697	8,866	4,081	83,204	4,625
September .....	394,189	16,040	8,183	3,940	83,766	4,054
October .....	430,727	15,055	8,615	4,393	91,254	4,253
November .....	430,549	15,344	9,217	4,166	90,101	4,482
December .....	455,548	16,948	9,359	4,702	93,119	4,638
<b>Total</b> .....	5,034,347	195,749	108,031	51,999	1,038,282	53,479
<b>1992</b>						
January .....	455,526	13,589	8,635	4,821	92,625	4,179
February .....	403,984	12,208	7,601	4,800	84,455	3,802
March .....	422,854	15,539	7,728	5,199	92,897	4,378
April .....	413,831	14,654	7,521	4,583	99,043	3,826
May .....	433,964	12,540	7,579	4,387	105,375	3,822
June .....	418,752	20,196	7,423	3,641	98,615	3,788
July .....	429,576	15,735	7,507	3,822	109,411	3,910
August .....	383,921	16,728	7,527	3,714	111,769	3,960
September .....	<sup>E</sup> 378,742	18,738	7,005	3,741	106,324	3,763
October .....	<sup>E</sup> 413,140	17,142	7,591	4,469	108,619	4,100
November .....	<sup>E</sup> 424,498	13,805	7,668	<sup>R</sup> 5,096	110,716	3,982
December .....	<sup>E</sup> 444,516	18,376	7,565	5,158	116,724	3,905
<b>Total</b> .....	5,023,304	189,250	91,350	<sup>R</sup> 53,441	1,236,573	47,415
<b>1993</b>						
January .....	<sup>E</sup> 449,393	18,622	7,657	5,205	116,697	4,167
February .....	<sup>E</sup> 400,231	9,728	7,249	<sup>R</sup> 4,729	108,459	3,644
March .....	<sup>E</sup> 425,024	24,098	7,166	<sup>E</sup> 5,105	118,515	4,389
<b>1993 YTD</b> .....	1,274,648	52,448	22,072	15,039	343,671	12,180
<b>1992 YTD</b> .....	1,282,364	41,336	23,964	14,820	289,977	12,359
<b>1991 YTD</b> .....	1,317,950	46,663	25,735	14,447	265,448	13,390

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 <sup>a</sup> States	U.S. Total
<b>1987 Total</b> .....	2,073,461	6,126,315	87,158	497,980	758,979	17,432,901
<b>1988 Total</b> .....	2,167,050	6,286,029	101,372	509,058	803,573	17,918,465
<b>1989 Total</b> .....	2,237,037	6,241,425	120,089	685,699	826,576	18,095,147
<b>1990 Total</b> .....	2,258,471	6,343,146	145,875	735,728	810,100	18,593,792
<b>1991</b>						
January .....	194,179	573,117	13,995	68,011	74,942	1,691,546
February .....	176,577	500,163	11,573	60,587	65,519	1,486,761
March .....	189,362	538,160	12,789	70,023	69,824	1,611,528
April .....	182,592	511,425	11,468	66,126	64,097	1,535,684
May .....	181,866	517,003	11,206	62,086	63,281	1,526,095
June .....	168,292	504,443	10,567	61,837	60,584	1,454,778
July .....	176,757	509,407	11,021	62,410	62,247	1,489,195
August .....	171,545	507,636	12,009	65,429	61,743	1,474,459
September .....	167,684	504,853	11,131	62,169	60,125	1,468,116
October .....	180,504	544,201	13,869	63,623	66,208	1,584,573
November .....	179,976	549,557	14,091	68,055	68,392	1,604,890
December .....	184,515	574,064	11,098	66,172	71,366	1,678,170
<b>Total</b> .....	2,153,849	6,334,030	144,817	776,528	788,328	18,585,795
<b>1992</b>						
January .....	182,220	551,727	11,797	69,316	<sup>E</sup> 75,741	1,652,721
February .....	164,317	483,622	11,312	49,958	<sup>E</sup> 68,113	1,464,282
March .....	164,117	508,378	12,727	65,119	<sup>E</sup> 70,062	1,537,464
April .....	166,322	493,548	11,852	62,708	<sup>E</sup> 65,307	1,505,299
May .....	163,402	510,858	13,378	59,063	<sup>E</sup> 64,003	1,544,342
June .....	164,646	495,744	13,310	63,318	<sup>E</sup> 63,716	1,515,474
July .....	159,166	508,172	13,930	70,253	<sup>E</sup> 62,498	1,547,207
August .....	157,543	516,628	14,425	69,635	<sup>E</sup> 64,118	1,510,457
September .....	158,603	512,557	15,250	66,021	<sup>E</sup> 60,626	1,487,396
October .....	169,089	541,550	17,177	69,072	<sup>E</sup> 65,451	1,592,597
November .....	<sup>E</sup> 171,039	537,072	16,718	70,146	<sup>E</sup> 66,445	<sup>R</sup> 1,608,429
December .....	<sup>E</sup> 176,390	524,547	19,417	69,495	<sup>E</sup> 71,210	1,650,962
<b>Total</b> .....	1,996,854	6,184,403	171,293	784,104	797,290	<sup>R</sup> 18,616,630
<b>1993</b>						
January .....	<sup>E</sup> 181,647	553,029	19,774	67,413	<sup>E</sup> 75,313	<sup>R</sup> 1,686,336
February .....	<sup>E</sup> 162,327	490,478	19,304	51,199	<sup>E</sup> 67,368	<sup>R</sup> 1,493,439
March .....	<sup>E</sup> 167,673	554,949	22,763	<sup>E</sup> 59,968	<sup>E</sup> 69,816	1,649,101
<b>1993 YTD</b> .....	511,647	1,598,456	61,841	178,580	212,497	4,828,876
<b>1992 YTD</b> .....	510,654	1,543,727	35,836	184,393	213,916	4,654,467
<b>1991 YTD</b> .....	560,117	1,611,440	38,357	198,621	210,285	4,789,835

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

<sup>E</sup> = Estimated Data.

<sup>R</sup> = 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 1991*, 1987 through 1991. •IOGCC, MMS reports, and EIA computations, January 1992 through current month.

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

Year and Month	Total Sales Volume <sup>a</sup> (Bcf)	Gas Operating Revenues	Gas Operating Expenses				Total Operating Income	Total Income Before Interest Charges and Extraordinary Expenses	Net Income <sup>c</sup>
			Operation and Maintenance	Depreciation, Depletion, and Amortization	Taxes <sup>b</sup>	Total Gas Operating Expenses			
<b>1987 Total</b> .....	6,758	27,469	21,871	1,520	552	25,151	2,333	3,493	1,414
<b>1988 Total</b> .....	6,414	26,637	22,640	1,579	582	24,940	1,803	3,350	1,366
<b>1989 Total</b> .....	5,652	26,703	21,522	1,451	596	24,168	2,575	4,595	2,311
<b>1990 Total</b> .....	4,877	24,275	18,980	1,483	648	21,686	2,590	4,227	2,319
<b>1991</b>									
January .....	686	3,126	2,395	116	61	2,729	397	448	303
February .....	415	2,095	1,541	116	58	1,809	286	355	222
March .....	384	1,960	1,445	117	53	1,699	261	273	151
April .....	289	1,548	1,224	118	53	1,412	137	200	68
May .....	227	1,386	1,045	118	56	1,229	157	215	74
June .....	184	1,263	1,870	118	52	1,759	-496	-422	-540
July .....	212	1,295	989	117	53	1,133	162	194	41
August .....	251	1,396	1,068	117	55	1,235	162	128	-11
September .....	229	1,387	1,268	118	46	1,364	23	-398	-545
October .....	304	1,613	1,232	37	49	1,361	252	276	120
November .....	439	2,127	1,615	116	50	1,863	264	312	166
December .....	433	2,452	2,304	101	42	2,565	-113	277	130
<b>Total</b> .....	4,052	21,649	17,996	1,311	627	20,158	1,492	1,857	179
<b>1992</b>									
January .....	413	2,240	1,647	117	64	1,954	286	382	241
February .....	347	1,800	1,281	42	59	1,514	285	378	253
March .....	348	1,832	1,314	118	56	1,586	246	380	246
April .....	R 276	R 1,526	R 1,112	R 119	R 56	R 1,339	R 187	R 279	R 135
May .....	269	1,475	1,084	123	58	1,311	165	368	227
June .....	215	1,441	1,056	113	52	1,253	188	314	171
July .....	234	1,417	1,020	124	55	1,237	181	298	147
August .....	264	1,564	1,157	131	54	1,412	152	268	124
September .....	254	1,957	1,552	-24	49	1,628	329	378	252
October .....	268	1,739	1,363	68	55	1,533	206	314	168
November .....	364	2,139	1,584	126	54	1,895	244	359	220
December .....	435	2,430	1,892	76	51	2,252	178	341	206
<b>Total</b> .....	R 3,687	R 21,562	R 16,063	R 1,133	R 664	R 18,914	R 2,648	R 4,057	R 2,390
<b>1993</b>									
January .....	366	2,070	1,434	121	57	1,703	367	398	267
February .....	395	2,001	1,395	120	59	1,696	305	393	272
March .....	401	2,013	1,396	118	55	1,705	308	404	268
April .....	278	1,617	1,161	216	55	1,516	101	295	168

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

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

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

R = Revised Data.

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

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

Source: Form FERC-11.

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

Year and Month	To Industrial Users		To Other Ultimate Consumers		Total Sales to Ultimate Consumers		Sales For Resale		Total Sales of Natural Gas		Number of Companies
	Volume	Price <sup>a</sup>	Volume	Price <sup>a</sup>	Volume	Price <sup>a</sup>	Volume	Price <sup>a</sup>	Volume	Price <sup>a</sup>	
<b>1987 Total</b> .....	442,041	3.07	301,567	5.06	743,608	3.91	5,213,629	3.37	5,957,237	3.44	47
<b>1988 Total</b> .....	294,821	2.65	440,683	4.99	735,504	4.05	4,866,193	3.47	5,601,697	3.55	46
<b>1989 Total</b> .....	392,843	2.58	465,592	5.02	858,435	3.91	4,324,349	3.51	5,182,784	3.58	50
<b>1990 Total</b> .....	229,662	2.80	374,166	5.18	603,828	4.28	3,849,486	3.40	4,453,314	3.52	51
<b>1991</b>											
January .....	17,703	2.95	68,692	4.71	86,395	4.35	549,376	3.54	635,771	3.65	50
February .....	11,731	2.62	43,492	4.51	55,223	4.11	325,749	3.65	380,972	3.72	50
March .....	9,786	2.73	36,250	4.56	46,036	4.17	328,651	3.30	374,687	3.40	50
April .....	9,047	2.70	21,575	4.82	30,622	4.19	246,762	3.31	277,384	3.41	50
May .....	11,951	2.38	16,004	5.20	27,955	4.00	188,041	3.58	215,996	3.63	50
June .....	12,894	2.10	13,048	5.42	25,942	3.77	144,958	3.93	170,900	3.91	50
July .....	12,018	2.05	18,288	4.83	30,306	3.72	169,807	3.61	200,113	3.62	50
August .....	15,449	1.94	16,466	4.93	31,915	3.48	205,892	3.33	237,807	3.35	50
September .....	12,293	2.32	14,785	5.18	27,078	3.88	185,285	3.37	212,363	3.44	50
October .....	15,654	2.38	20,363	5.11	36,017	3.92	253,721	3.30	289,738	3.38	49
November .....	14,778	2.70	44,862	4.63	59,640	4.15	363,264	3.27	422,904	3.39	49
December .....	13,908	2.83	50,253	4.72	64,161	4.31	348,207	4.00	412,368	4.05	49
<b>Total</b> .....	157,212	2.48	364,078	4.77	521,290	4.08	3,309,713	3.51	3,831,003	3.59	50
<b>1992</b>											
January .....	12,270	2.58	59,297	4.53	71,567	4.19	333,807	3.58	405,374	3.68	48
February .....	10,489	2.09	42,699	4.42	53,188	3.97	287,148	3.32	340,336	3.42	49
March .....	11,460	2.14	35,898	4.42	47,358	3.87	290,133	3.14	337,491	3.24	49
April .....	R 14,176	R 2.15	26,940	4.79	R 41,116	R 3.88	R 221,838	R 3.32	R 262,954	R 3.40	50
May .....	14,815	1.56	16,500	5.11	31,315	3.43	224,588	2.93	255,903	2.99	50
June .....	10,064	2.45	13,421	5.45	23,485	4.17	179,992	2.62	203,477	2.80	50
July .....	13,135	1.97	14,070	5.25	27,205	3.67	185,106	3.02	212,311	3.10	50
August .....	16,163	2.29	13,924	5.28	30,087	3.67	213,459	3.12	243,546	3.19	50
September .....	12,827	2.56	13,914	5.36	26,741	4.01	207,782	3.30	234,523	3.38	50
October .....	12,632	2.88	20,116	5.53	32,748	4.50	222,784	3.46	255,532	3.59	50
November .....	13,234	2.99	40,209	4.91	53,443	4.43	294,374	3.32	347,817	3.49	50
December .....	12,300	2.89	55,691	5.00	67,991	4.62	353,866	3.35	421,857	3.56	50
<b>Total</b> .....	R 153,565	2.37	352,679	4.85	R 506,244	4.10	R 3,014,877	R 3.24	R 3,521,121	R 3.36	50
<b>1993</b>											
January .....	4,623	2.62	6,747	4.44	11,370	3.70	344,821	3.38	356,191	3.39	51
February .....	6,494	2.24	5,221	4.47	11,715	3.23	369,081	2.98	380,796	2.99	51
March .....	5,762	2.42	5,078	4.48	10,840	3.38	369,600	2.96	380,440	2.98	51
April .....	7,415	2.30	3,626	4.54	11,041	3.04	260,533	3.06	271,574	3.06	51

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

R = Revised Data.

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

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

Source: Form FERC-11.



**Table 10. Volumes and Prices of Natural Gas Sold by Major Interstate Natural Gas Pipeline Companies, by Company, April 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	--	88	4.13	88	4.13
ANR .....	0	--	0	--	0	--	24,955	2.94	24,955	2.94
Arkla Energy Resources Co .....	12	3.92	0	--	12	3.92	3,877	4.60	3,889	4.59
Bear Creek Storage .....	0	--	0	--	0	--	0	--	0	--
Colorado Interstate .....	51	2.37	0	--	51	2.39	8,570	2.18	8,621	2.18
Columbia Gas Transm .....	0	--	0	--	0	--	4,909	3.59	4,909	3.59
Columbia Gulf .....	0	--	1	2.00	1	2.00	0	--	1	2.00
Consolidated Gas .....	0	--	0	--	0	--	17,208	3.77	17,208	3.77
East Tennessee .....	576	3.37	0	--	576	3.37	3,091	3.55	3,667	3.52
El Paso .....	2,798	1.95	0	--	2,798	1.95	5,861	1.90	8,659	1.91
Equitrans .....	73	2.85	0	--	73	2.85	2,523	4.45	2,598	4.40
Florida Gas .....	624	3.77	0	--	624	3.77	1,047	5.07	1,671	4.58
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 .....	19	3.21	3,516	4.62	3,535	4.61	1,915	3.12	5,450	4.09
Kern River Gas Trans. ....	0	--	0	--	0	--	0	--	0	--
Michigan Gas Storage .....	0	--	0	--	0	--	109	2.66	109	2.66
Midwestern .....	0	--	0	--	0	--	5,090	2.21	5,090	2.21
Mississippi River .....	378	2.66	0	--	378	2.66	7,288	3.28	7,664	3.25
Mojave Pipeline Co. ....	0	--	0	--	0	--	0	--	0	--
Mountain Fuel Res .....	0	--	0	--	0	--	1,855	4.02	1,855	4.02
National Fuel .....	0	--	0	--	0	--	8,486	4.53	8,486	4.53
Natural Gas Pipeline .....	2	1.50	0	--	2	1.50	26,808	3.68	26,810	3.68
Northern Border .....	0	--	0	--	0	--	0	--	0	--
Northern Natural .....	899	2.26	31	1.68	930	2.24	15,894	2.37	16,824	2.36
Northwest Alaskan .....	0	--	0	--	0	--	28,401	2.11	28,401	2.11
Northwest Pipeline .....	0	--	0	--	0	--	2,480	2.57	2,460	2.57
Overthrust Pipeline .....	0	--	0	--	0	--	0	--	0	--
Pacific Gas Transm .....	0	--	0	--	0	--	28,704	2.24	28,704	2.24
Pacific Interstate .....	0	--	0	--	0	--	6,893	2.79	6,893	2.79
Panhandle Eastern .....	46	3.04	65	2.22	111	2.56	6,129	2.68	6,240	2.68
Sabine Pipeline Co .....	0	--	0	--	0	--	0	--	0	--
Sea Robin Pipeline .....	0	--	0	--	0	--	0	--	0	--
Southern Natural .....	7	3.71	0	--	7	3.71	4,685	6.41	4,692	6.41
Stingray Pipeline .....	0	--	0	--	0	--	0	--	0	--
Tenneco, Inc .....	1,839	1.75	0	--	1,839	1.75	5,679	5.38	7,518	4.49
Texas Eastern .....	0	--	0	--	0	--	1,380	3.02	1,380	3.02
Texas Gas Transm .....	0	--	0	--	0	--	4,563	4.72	4,563	4.72
Trailblazer Pipeline .....	0	--	0	--	0	--	0	--	0	--
Transcontinental .....	0	--	0	--	0	--	23,106	3.09	23,106	3.10
Transwestern Pipeline .....	0	--	12	1.42	12	1.42	4	1.75	16	1.50
Trunkline Gas Co .....	3	3.33	1	2.00	4	3.00	10,175	2.84	10,179	2.84
Trunkline LNG .....	0	--	0	--	0	--	0	--	0	--
U-T Offshore .....	0	--	0	--	0	--	0	--	0	--
United Gas Pipeline .....	7	5.57	0	--	7	5.57	2,691	2.80	2,698	2.81
Valero Interstate Transm .....	0	--	0	--	0	--	134	2.16	134	2.16
Viking Gas Company .....	0	--	0	--	0	--	0	--	0	--
Williams Natural .....	83	2.78	0	--	83	2.78	1,660	3.65	1,743	3.61
Williston Basin .....	0	--	0	--	0	--	1,103	4.81	1,103	4.81
Wyoming Interstate .....	0	--	0	--	0	--	0	--	0	--
<b>Total/Average Price*</b> .....	<b>7,415</b>	<b>2.30</b>	<b>3,626</b>	<b>4.54</b>	<b>11,041</b>	<b>3.04</b>	<b>267,341</b>	<b>3.09</b>	<b>278,382</b>	<b>3.09</b>
<b>Sales to Other Major Companies</b> .....	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>6,808</b>	<b>4.28</b>	<b>6,808</b>	<b>4.28</b>
<b>Sales Excluding Sales to Major Companies</b> .....	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>260,533</b>	<b>3.06</b>	<b>271,574</b>	<b>3.06</b>

\* 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 <sup>a</sup>	Natural Gas Production	Manufactured Gas, Liquefied Natural Gas, Gasified Coal, and Synthetic Gas Production	Purchased Natural Gas				
				From Producers	Intracompany Transfers	Imports	From Others	Total
<b>1987 Total</b> .....	13,479,969	152,039	22,905	4,848,577	124,572	759,345	400,134	6,132,628
<b>1988 Total</b> .....	15,950,507	139,621	23,980	4,516,120	66,879	962,383	374,983	5,920,365
<b>1989 Total</b> .....	18,696,398	106,036	24,609	3,532,588	74,058	903,488	411,997	4,922,131
<b>1990 Total</b> .....	21,681,372	93,366	<sup>NA</sup> 24,163	3,601,690	72,986	965,859	355,273	4,995,808
<b>1991</b>								
January .....	2,098,858	8,065	1,588	372,884	7,194	79,076	40,958	500,112
February .....	1,839,900	6,242	2,157	262,740	5,669	68,257	21,918	358,584
March .....	1,865,092	5,837	2,120	222,064	5,388	78,343	19,280	325,075
April .....	1,792,255	5,603	1,114	193,804	4,453	64,319	19,603	282,979
May .....	1,723,696	5,534	2,202	174,738	4,808	81,258	14,897	265,501
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	1,708	261,011	11,226	73,042	33,149	378,428
December .....	2,135,449	6,798	1,969	298,819	7,732	74,645	31,468	412,664
<b>Total</b> .....	22,031,321	73,065	23,376	2,631,069	72,118	806,558	274,168	3,783,913
<b>1992</b>								
January .....	2,309,478	6,645	<sup>NA</sup> 1,855	251,382	8,000	64,855	78,728	362,965
February .....	2,159,190	6,079	<sup>NA</sup> 2,070	205,682	7,942	63,868	24,695	302,187
March .....	2,183,665	6,156	2,303	148,181	8,643	68,723	19,604	245,351
April .....	<sup>NA</sup> 2,107,984	6,796	<sup>NA</sup> 2,208	<sup>NA</sup> 184,991	<sup>NA</sup> 5,813	59,849	<sup>NA</sup> 21,858	<sup>NA</sup> 252,511
May .....	1,979,257	6,969	2,304	170,377	5,935	67,619	19,859	263,790
June .....	1,888,212	5,243	2,076	155,643	4,803	56,782	20,169	237,397
July .....	1,897,266	5,675	1,989	156,145	5,106	65,557	23,342	250,150
August .....	1,888,726	6,146	2,045	166,766	5,429	84,829	18,715	275,739
September .....	1,807,555	6,249	2,006	175,857	5,268	74,569	<sup>b</sup> 6,689	262,563
October .....	1,985,790	6,352	2,209	192,808	5,360	71,677	20,536	290,401
November .....	2,144,326	6,503	2,195	216,189	9,938	71,100	24,967	324,194
December .....	2,194,128	6,604	2,633	247,161	10,494	79,706	45,325	382,666
<b>Total</b> .....	<sup>NA</sup> 24,545,579	75,417	<sup>NA</sup> 25,893	<sup>NA</sup> 2,253,182	<sup>NA</sup> 82,751	829,134	<sup>NA</sup> 284,867	<sup>NA</sup> 3,449,934
<b>1993</b>								
January .....	2,334,905	6,430	2,335	203,273	5,475	76,801	7,912	293,461
February .....	2,163,229	6,047	2,102	160,616	5,238	70,472	9,394	245,720
March .....	2,214,880	6,310	2,460	171,111	5,583	71,018	11,065	258,757
April .....	1,976,998	5,532	2,233	164,581	4,796	75,589	1,134	246,100

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

<sup>b</sup> Includes out-of-period adjustments to correct data in prior month.

<sup>NA</sup> = Revised Data.

<sup>MA</sup> = Not Available.

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

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

Source: Form FERC-11.

**Table 12. Natural and Other Gases Produced and Purchased  
by Major Interstate Natural Gas Pipeline Companies, April 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 .....	21,232	0	0	0	0	0	419	419
ANR .....	98,936	0	1,200	7,703	0	5,839	0	13,542
Arkla Energy Resources Co .....	46,488	0	0	2,133	0	0	251	2,384
Bear Creek Storage .....	0	0	0	0	0	0	0	0
Colorado Interstate .....	44,790	4,087	0	1,742	4,087	0	0	5,829
Columbia Gas Transm .....	69,180	0	0	16,606	0	0	* -7	16,599
Columbia Gulf .....	98,328	0	0	0	0	0	259	259
Consolidated Gas .....	39,485	1,120	0	9,579	4	0	55	9,638
East Tennessee .....	5,552	0	9	4,094	0	0	223	4,317
El Paso .....	102,089	0	0	7,120	0	0	* -374	6,746
Equitrans .....	3,189	0	0	4,488	0	0	* -37	4,451
Florida Gas .....	24,026	0	0	253	0	0	1,507	1,760
Great Lakes Gas .....	63,573	0	0	0	0	0	0	0
High Island Offshore .....	26,085	0	0	0	0	0	0	0
Iroquois Gas Transm. Sys. ....	19,860	0	0	0	0	0	0	0
K N Energy Inc .....	9,241	0	0	3,745	0	0	2,531	6,276
Kern River Gas Trans. ....	20,889	0	0	0	0	0	0	0
Michigan Gas Storage .....	27,999	0	0	0	0	0	85	85
Midwestern .....	351	0	0	1,679	0	0	148	1,827
Mississippi River .....	21,822	0	0	6,235	0	0	0	6,235
Mojave Pipeline Co. ....	5,895	0	0	0	0	0	0	0
Mountain Fuel Res .....	21,007	0	0	2,037	0	0	6	2,043
National Fuel .....	8,982	337	0	11,155	337	0	270	11,762
Natural Gas Pipeline .....	115,824	0	1,024	27,934	0	6,824	* -52	34,706
Northern Border .....	51,707	0	0	0	0	0	0	0
Northern Natural .....	149,879	0	0	* -2,821	0	0	15,732	12,911
Northwest Alaskan .....	0	0	0	0	0	28,401	0	28,401
Northwest Pipeline .....	49,164	0	0	22	0	2,370	0	2,392
Overthrust Pipeline .....	2,048	0	0	0	0	0	0	0
Pacific Gas Transm .....	10,163	0	0	0	0	29,206	0	29,206
Pacific Interstate .....	0	0	0	0	0	0	7,116	7,116
Panhandle Eastern .....	52,045	0	0	* -98	0	0	0	* -98
Sabine Pipeline Co. ....	16,112	0	0	0	0	0	0	0
Sea Robin Pipeline .....	24,160	0	0	0	0	0	0	0
Southern Natural .....	36,078	0	0	8,069	0	0	1	8,070
Stingray Pipeline .....	18,947	0	0	0	0	0	0	0
Tenneco, Inc .....	131,279	* -13	0	8,596	0	2,949	* -4,458	7,087
Texas Eastern .....	75,384	1	0	252	0	0	* -385	* -133
Texas Gas Transm .....	59,093	0	0	4,449	0	0	68	4,517
Trailblazer Pipeline .....	12,752	0	0	0	0	0	0	0
Transcontinental .....	186,341	0	0	22,026	0	0	2,321	24,347
Transwestern Pipeline .....	43,941	0	0	240	0	0	0	240
Trunkline Gas Co .....	46,241	0	0	7,423	0	0	0	7,423
Trunkline LNG .....	0	0	0	0	0	0	0	0
U-T Offshore .....	11,476	0	0	0	0	0	0	0
United Gas Pipeline .....	45,756	0	0	3,590	0	0	0	3,590
Valero Interstate Transm .....	5,085	0	0	0	0	0	134	134
Viking Gas Company .....	11,577	0	0	0	0	0	0	0
Williams Natural .....	27,840	0	0	5,879	0	0	1,846	7,525
Williston Basin .....	5,296	0	0	451	388	0	0	819
Wyoming Interstate .....	10,811	0	0	0	0	0	0	0
<b>Total .....</b>	<b>1,976,998</b>	<b>5,532</b>	<b>2,233</b>	<b>164,581</b>	<b>4,796</b>	<b>75,589</b>	<b>27,459</b>	<b>272,425</b>
Purchases from Other Major Companies .....	—	—	—	0	0	0	26,325	26,325
Purchases Excluding Purchases from Other Major Companies .....	—	—	—	164,581	4,796	75,589	1,134	246,100

\* Includes out-of-period adjustments to correct data in prior month.  
— Not Applicable.

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

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

Source: Form FERC-11.

**Table 13. Underground Natural Gas Storage - All Operators,  
1987-1993**  
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total <sup>b</sup>	Volume	Percent	Injections	Withdrawals	Net <sup>c</sup>
<b>1987 Total<sup>a</sup></b> .....	3,792	2,756	6,548	7	0.3	1,887	1,881	6
<b>1988 Total<sup>a</sup></b> .....	3,800	2,850	6,650	94	3.4	2,174	2,244	-69
<b>1989 Total<sup>a</sup></b> .....	3,812	2,513	6,325	-337	-11.8	2,491	2,804	-313
<b>1990 Total<sup>a</sup></b> .....	3,868	3,068	6,936	555	22.1	2,433	1,934	499
<b>1991</b>								
January .....	3,911	2,362	6,273	92	4.1	115	659	-545
February .....	3,908	2,063	5,972	59	2.9	112	397	-285
March .....	3,895	1,912	5,806	37	2.0	129	291	-162
April .....	3,898	2,037	5,935	91	4.7	228	104	124
May .....	3,931	2,273	6,204	93	4.3	319	58	261
June .....	3,936	2,553	6,492	68	2.7	314	42	272
July .....	3,942	2,771	6,713	-20	-7	289	75	214
August .....	3,949	2,978	6,927	-93	-3.0	282	82	200
September .....	3,950	3,201	7,151	-120	-3.6	294	78	216
October .....	3,981	3,369	7,330	-98	-2.8	251	103	148
November .....	3,952	3,148	7,100	-324	-9.3	150	352	-202
December .....	3,954	2,824	6,778	-244	-8.0	125	448	-323
<b>Total</b> .....	--	--	--	--	--	2,608	2,689	-80
<b>1992</b>								
January .....	4,060	2,215	6,275	-147	-6.2	57	572	-515
February .....	4,056	1,843	5,898	-220	-10.7	53	436	-383
March .....	4,045	1,545	5,591	-367	-19.2	73	370	-297
April .....	4,037	1,572	5,609	-465	-22.8	159	140	19
May .....	4,043	1,847	5,899	-423	-18.8	321	50	271
June .....	4,049	2,151	6,200	-402	-15.7	358	40	318
July .....	4,063	2,458	6,521	-313	-11.3	352	52	299
August .....	4,060	2,759	6,820	-219	-7.3	358	62	296
September .....	4,055	3,046	7,101	-155	-4.8	336	52	285
October .....	4,063	3,220	7,283	-149	-4.4	262	80	182
November .....	4,059	3,052	7,111	-96	-3.1	94	267	-173
December .....	4,042	2,596	6,638	-228	-8.1	57	535	-478
<b>Total</b> .....	--	--	--	--	--	2,479	2,656	-177
<b>1993</b>								
January .....	4,044	2,041	6,085	-174	-7.9	45	600	-555
February .....	4,012	1,520	5,532	-323	-17.5	30	581	-550
March .....	3,991	1,235	5,226	-311	-20.1	81	385	-304
April .....	4,008	1,339	5,346	-233	-14.9	222	109	113
May .....	4,016	1,740	5,756	-107	-5.8	448	25	423

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

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

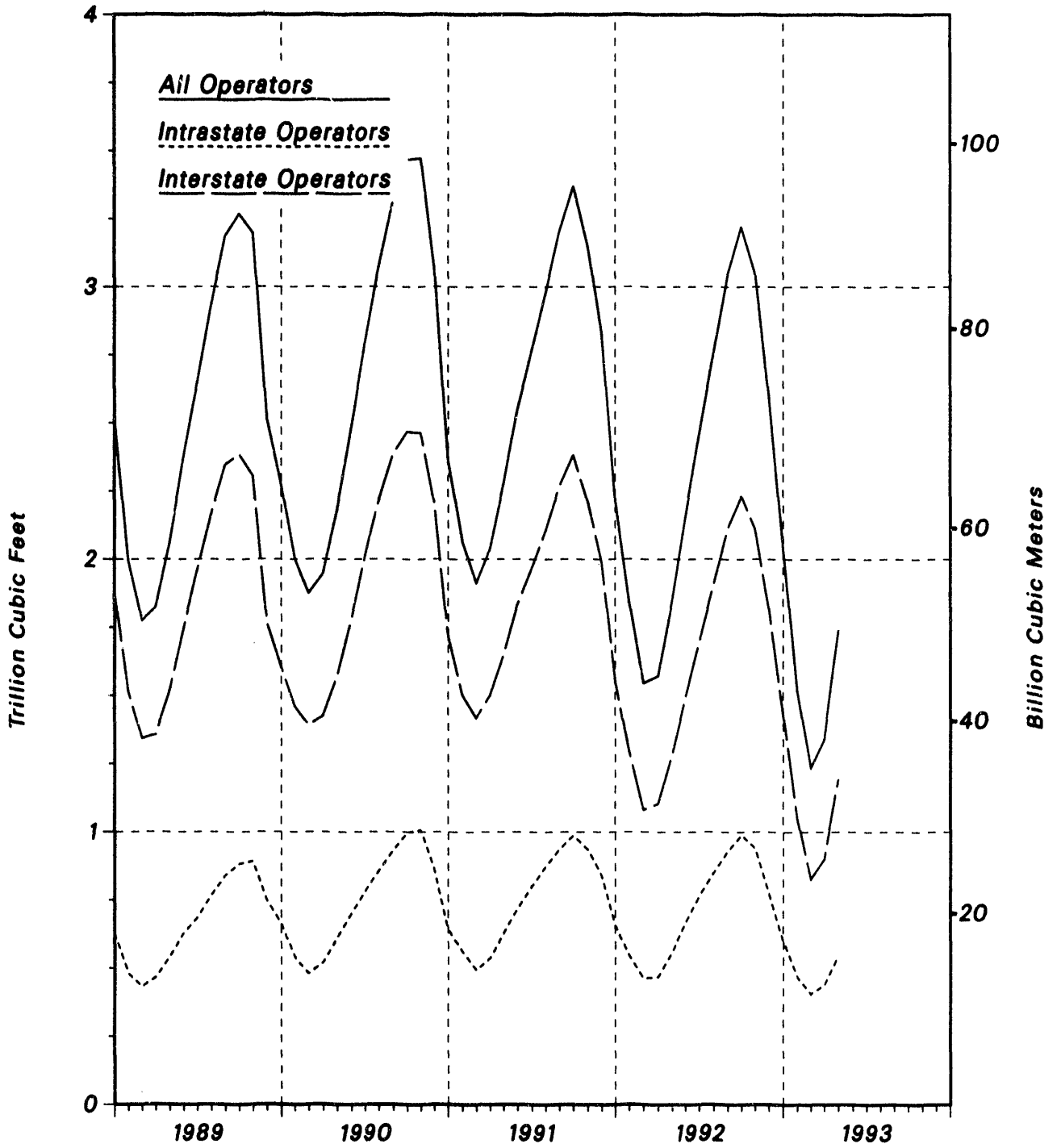
<sup>c</sup> Positive numbers indicate the volume of injections in excess of withdrawals. Negative numbers indicate the volume of withdrawals in excess of injections.

-- = Not Applicable.

Notes: Data for 1987 through 1991 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 7 for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.

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

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



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

**Table 14. Underground Natural Gas Storage - Interstate Operators of Storage Fields, 1987-1993**  
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total <sup>b</sup>	Volume	Percent	Injections	Withdrawals	Net <sup>c</sup>
<b>1987 Total<sup>a</sup></b> .....	2,461	2,024	4,485	14	0.7	1,365	1,348	17
<b>1988 Total<sup>a</sup></b> .....	2,469	2,092	4,561	68	3.3	1,587	1,532	55
<b>1989 Total<sup>a</sup></b> .....	2,478	1,764	4,242	-328	-15.7	1,788	2,072	-285
<b>1990 Total<sup>a</sup></b> .....	2,496	2,203	4,699	439	24.9	1,705	1,284	421
<b>1991</b>								
January .....	2,542	1,718	4,261	114	7.1	105	481	-376
February .....	2,546	1,502	4,048	40	2.7	93	292	-199
March .....	2,535	1,418	3,952	26	1.9	109	200	-91
April .....	2,537	1,500	4,037	76	5.3	165	82	83
May .....	2,569	1,647	4,216	78	5.0	218	47	171
June .....	2,575	1,834	4,409	51	2.9	213	35	178
July .....	2,576	1,970	4,546	-39	-1.9	192	62	130
August .....	2,577	2,105	4,682	-109	-4.9	186	65	121
September .....	2,571	2,265	4,836	-122	-5.1	211	64	147
October .....	2,571	2,382	4,953	-86	-3.5	181	83	98
November .....	2,572	2,210	4,782	-253	-10.3	117	274	-157
December .....	2,571	1,985	4,556	-218	-9.9	112	328	-216
<b>Total</b> .....	--	--	--	--	--	1,902	2,013	-111
<b>1992</b>								
January .....	2,675	1,556	4,231	-162	-9.5	49	385	-335
February .....	2,671	1,295	3,966	-207	-13.8	36	306	-270
March .....	2,661	1,081	3,743	-337	-23.7	56	269	-213
April .....	2,653	1,104	3,757	-396	-20.4	111	98	14
May .....	2,659	1,285	3,945	-362	-22.0	228	40	188
June .....	2,665	1,486	4,151	-348	-19.0	243	28	215
July .....	2,679	1,695	4,375	-275	-13.9	249	36	213
August .....	2,676	1,908	4,584	-197	-9.3	254	43	210
September .....	2,670	2,115	4,785	-150	-6.6	230	29	201
October .....	2,677	2,231	4,908	-151	-6.3	181	57	123
November .....	2,673	2,111	4,784	-99	-4.5	72	197	-124
December .....	2,652	1,819	4,471	-166	-8.4	46	359	-313
<b>Total</b> .....	--	--	--	--	--	1,754	1,847	-93
<b>1993</b>								
January .....	2,654	1,438	4,092	-117	-7.5	38	416	-378
February .....	2,632	1,050	3,683	-245	-18.9	20	428	-408
March .....	2,615	827	3,442	-254	-23.5	50	285	-236
April .....	2,631	900	3,531	-203	-18.4	149	76	73
May .....	2,637	1,193	3,830	-92	-7.2	328	16	312

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

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

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

-- = Not Applicable.

Notes: Data for 1987 through 1991 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 7 for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.

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

**Table 15. Underground Natural Gas Storage - Intrastate Operators and Independent Producers, 1987-1993**  
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total <sup>a</sup>	Volume	Percent	Injections	Withdrawals	Net <sup>c</sup>
<b>1987 Total<sup>a</sup></b> .....	1,331	732	2,063	-7	0.1	522	533	-11
<b>1988 Total<sup>a</sup></b> .....	1,331	758	2,089	26	3.8	587	711	-124
<b>1989 Total<sup>a</sup></b> .....	1,335	749	2,083	-9	-1.2	705	732	-26
<b>1990 Total<sup>a</sup></b> .....	1,372	864	2,236	115	15.4	728	650	78
<b>1991</b>								
January .....	1,369	644	2,012	-21	-3.2	10	178	-168
February .....	1,362	562	1,924	21	3.9	19	105	-86
March .....	1,360	494	1,854	13	2.7	20	91	-71
April .....	1,361	537	1,898	16	3.1	63	22	41
May .....	1,362	626	1,988	16	2.6	101	11	90
June .....	1,364	719	2,083	18	2.8	101	7	94
July .....	1,366	802	2,168	21	2.7	97	13	84
August .....	1,372	873	2,245	17	2.0	96	17	79
September .....	1,379	936	2,315	3	.3	83	14	69
October .....	1,390	987	2,377	-11	-1.1	70	20	50
November .....	1,390	937	2,317	-70	-7.0	33	78	-45
December .....	1,383	839	2,221	-25	-2.9	13	120	-107
<b>Total</b> .....	—	—	—	—	—	706	675	30
<b>1992</b>								
January .....	1,384	660	2,044	16	2.5	8	187	-180
February .....	1,385	547	1,932	-15	-2.6	16	129	-113
March .....	1,384	464	1,848	-30	-6.1	18	101	-83
April .....	1,383	469	1,852	-68	-12.7	48	43	5
May .....	1,384	561	1,945	-65	-10.4	93	11	82
June .....	1,384	665	2,049	-54	-7.5	115	12	103
July .....	1,384	763	2,148	-39	-4.9	103	16	87
August .....	1,385	851	2,236	-22	-2.5	104	19	85
September .....	1,385	931	2,316	-5	-5	106	23	84
October .....	1,386	989	2,375	2	.2	81	23	58
November .....	1,386	941	2,327	4	.4	22	70	-48
December .....	1,391	776	2,167	-63	-7.5	11	175	-165
<b>Total</b> .....	—	—	—	—	—	725	809	-85
<b>1993</b>								
January .....	1,390	603	1,993	-57	-8.6	7	184	-177
February .....	1,380	489	1,849	-78	-14.3	10	152	-142
March .....	1,376	407	1,784	-57	-12.2	31	100	-68
April .....	1,377	438	1,815	-30	-6.5	72	33	40
May .....	1,380	546	1,926	-15	-2.7	120	10	110

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

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

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

— = Not Applicable.

Notes: Data for 1987 through 1991 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 7 for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Sources: FORT 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	May 1993	April 1993	March 1993	February 1993	January 1993	Total 1992	December 1992
Arkansas .....	824	121	478	872	633	514	624
California .....	-28,519	-15,646	-6,478	17,346	37,972	38,779	57,233
Colorado .....	-2,666	3,335	2,411	4,759	3,144	5,279	2,741
Illinois .....	-33,698	-2,905	25,016	49,397	59,625	12,534	45,607
Indiana .....	-1,257	-400	2,558	5,026	5,572	896	3,615
Iowa .....	-6,824	-5,491	2,650	10,799	18,971	3,951	20,511
Kansas .....	-24,845	-3,339	4,697	15,602	18,299	20,573	12,865
Kentucky .....	-6,426	726	9,515	10,958	5,114	-6,415	3,011
Louisiana .....	-28,839	-2,542	23,512	43,798	47,855	19,089	35,137
Maryland .....	-2,217	456	1,859	4,290	3,272	-2,727	2,062
Michigan .....	-75,304	-21,789	66,220	103,067	97,623	12,554	88,834
Minnesota .....	-318	49	416	418	396	30	203
Mississippi .....	-7,012	-2,489	6,098	8,450	5,963	-7,864	6,581
Missouri .....	-1,049	-1,551	1,085	1,811	1,091	13	7
Montana .....	1,157	1,710	2,759	4,420	5,100	12,534	5,601
Nebraska .....	-2,958	-975	1,010	2,009	3,344	-536	3,428
New Mexico .....	-2,705	2,927	792	4,164	2,613	2,478	-412
New York .....	-10,921	-4,109	10,080	16,122	13,106	-1,972	11,193
Ohio .....	-29,556	-3,399	38,442	45,095	38,465	15,432	30,849
Oklahoma .....	-20,586	-12,860	8,856	21,531	23,966	12,068	30,668
Oregon .....	-1,645	426	728	1,397	1,918	872	579
Pennsylvania .....	-57,981	-18,784	56,156	100,956	71,301	-9,570	50,184
Texas .....	-27,786	-20,217	12,415	24,323	45,306	42,041	36,120
Utah .....	-6,666	1,015	3,702	5,057	5,873	-11,131	6,778
Washington .....	-4,528	-1,002	-1,231	3,347	3,439	5,667	
West Virginia .....	-39,358	-5,511	29,813	43,205	31,863	-3,172	17,129
Wyoming .....	-983	-503	371	2,018	3,361	8,525	3,532
Total .....	-422,685	-112,757	303,930	550,237	555,187	177,201	478,478

See footnotes at end of table.



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

States	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992
Arkansas .....	366	196	-434	-664	-852	-509	16
California .....	9,582	-7,822	-16,810	-10,523	-14,805	-23,594	-14,898
Colorado .....	3,104	-2,126	-5,910	-6,253	-4,128	-1,979	366
Illinois .....	18,594	-27,250	-34,867	-38,324	-30,630	-31,957	-33,582
Indiana .....	2,362	-2,945	-5,211	-4,113	-5,143	-2,554	-1,187
Iowa .....	9,164	-9,101	-10,668	-10,871	-11,369	-8,213	-8,918
Kansas .....	8,734	-2,954	-10,137	-11,636	-4,315	-2,503	-2,263
Kentucky .....	1,522	-10,708	-4,208	-1,618	-3,551	-1,552	1,230
Louisiana .....	5,227	-21,407	-17,253	-14,288	-14,985	-19,697	-21,100
Maryland .....	-670	-1,203	-2,046	-2,387	-1,817		-3,281
Michigan .....	49,062	-28,398	-68,572	-66,347	-74,813	-68,179	-45,023
Minnesota .....	8	4	-126	-179	-288	-306	-390
Mississippi .....	639	-1,266	-6,351	-580	-4,921	-8,393	-4,244
Missouri .....	8	-191	-208	-218	-266	-146	-427
Montana .....	3,347	1,357	280	-766	-1,026	-714	-1,517
Nebraska .....	2,445	309	-1,175	-1,195	-2,096	-2,627	-1,620
New Mexico .....	1,038	-2,550	-1,169	-1,945	2,099	-541	85
New York .....	3,034	-3,663	-6,893	-10,102	-11,167	-9,525	-10,121
Ohio .....	5,163	-11,241	-15,372	-22,490	-28,068	-29,257	-25,866
Oklahoma .....	17,279	-7,563	-12,628	-3,748	-17,423	-11,028	-7,929
Oregon .....	1,100	-173	-453	-1,010	-1,194	-1,540	-1,572
Pennsylvania .....	-2,767	-25,705	-42,447	-43,351	-36,750	-51,775	-40,168
Texas .....	20,304	-4,792	-3,151	-15,964	-7,532	-12,751	-18,774
Utah .....	5,472	-1,274	-3,120	-4,672	-3,519	-2,767	-3,507
Washington .....	947	760	-1,196	-1,458	-1,024	-1,175	-1,351
West Virginia .....	6,001	-13,026	-13,599	-18,825	-19,009	-21,165	-24,447
Wyoming .....	1,787	1,046	-865	-122	-1,185	-611	-365
Total .....	172,854	-181,684	-284,588	-295,632	-299,488	-317,735	-270,653

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 1992	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991
Arkansas .....	159	443	519	652	1,966	664	629
California .....	-14,858	15,757	16,847	42,671	-12,276	24,681	6,113
Colorado .....	4,153	6,683	2,777	5,850	-7,370	598	-1,468
Illinois .....	7,747	26,551	47,569	63,076	978	34,113	17,558
Indiana .....	508	4,126	4,627	6,820	926	4,626	-802
Iowa .....	-2,557	3,539	12,653	19,780	5,207	13,739	4,997
Kansas .....	5,009	9,422	13,125	5,226	-10,822	-2,317	8,913
Kentucky .....	1,684	4,884	1,255	1,634	1,397	2,686	6,590
Louisiana .....	-332	13,228	28,814	45,726	24,989	30,577	12,743
Maryland .....	992	1,229	3,535	3,535	-1,852	1,070	-334
Michigan .....	287	65,658	75,640	86,407	39,200	74,384	56,578
Minnesota .....	209	328	129	449	-267	53	77
Mississippi .....	-415	1,397	276	9,093	5,884	6,130	7,864
Missouri .....	-1,570	330	1,198	1,497	-1,117	12	-199
Montana .....	-131	484	2,207	3,412	9,737	3,548	2,675
Nebraska .....	-609	42	1,032	1,529	-229	2,362	402
New Mexico .....	2,396	735	711	2,020	-3,694	-1,002	147
New York .....	-2,778	12,207	14,323	11,520	-11,619	7,125	3,662
Ohio .....	-2,247	35,661	34,823	43,476	-431	27,910	12,644
Oklahoma .....	-5,550	3,439	8,621	17,930	12,139	11,502	26,655
Oregon .....	443	1,586	1,540	1,568	-566	487	-23
Pennsylvania .....	-5,385	53,322	64,308	70,963	11,335	37,591	10,030
Texas .....	-3,333	5,213	14,001	32,700	-6,398	9,801	8,300
Utah .....	-1,837	-240	422	3,912	9,976	7,418	5,792
Washington .....	877	581	2,979	1,930	-3,200	458	-1,040
West Virginia .....	-1,697	29,154	26,933	29,380	16,888	22,834	11,077
Wyoming .....	76	868	2,041	2,323	-426	1,941	1,809
Total .....	-18,760	296,626	392,906	515,077	80,355	322,991	201,590

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 1991	September 1991	August 1991	July 1991	June 1991	May 1991
Arkansas .....	0	0	-14	-487	-339	-131
California .....	879	1,455	-3,416	-13,136	-23,367	-25,622
Colorado .....	-1,759	-5,275	-4,430	-4,200	-3,831	-1,317
Illinois .....	-26,390	-32,897	-34,057	-28,745	-29,798	-30,660
Indiana .....	-4,105	-4,467	-3,797	-2,813	-1,016	-1,770
Iowa .....	-10,757	-10,675	-6,433	-5,100	-8,983	-3,536
Kansas .....	-10,235	-10,203	-6,977	-2,559	-7,261	-6,552
Kentucky .....	460	-3,437	-3,162	-5,327	-3,297	-2,358
Louisiana .....	-23,315	-18,632	-6,029	-11,877	-22,117	-19,263
Maryland .....	-800	-2,084	-2,061	-1,392	-1,590	-1,520
Michigan .....	-32,872	-27,703	-46,233	-58,225	-57,062	-47,963
Minnesota .....	32	-93	4	-291	-312	-257
Mississippi .....	-3,107	-5,101	-2,102	-2,054	-3,178	-4,093
Missouri .....	-219	-212	-302	-295	-89	-683
Montana .....	1,379	-120	-1,438	-1,711	-1,235	-1,225
Nebraska .....	154	-901	167	253	-2,128	-2,906
New Mexico .....	9	-2,642	1,960	-1,031	-2,998	-2,909
New York .....	-5,237	-8,681	-8,498	-9,006	-7,492	-6,425
Ohio .....	-9,113	-16,055	-17,817	-16,173	-20,435	-23,939
Oklahoma .....	-4,702	-10,249	-4,757	-1,095	-10,455	-15,187
Oregon .....	-339	-674	-1,092	-1,458	-1,554	-713
Pennsylvania .....	-13,835	-34,526	-29,625	-19,127	-24,209	-32,592
Texas .....	-856	-10,004	-4,559	-2,660	-12,883	-8,977
Utah .....	-560	-3,940	-3,813	-6,010	-5,548	-2,405
Washington .....	1,040	5	60	-2,138	-2,716	-1,522
West Virginia .....	-3,606	-8,516	-9,816	-15,495	-16,310	-15,360
Wyoming .....	-54	-761	-1,628	-2,068	-1,849	-802
Total .....	-147,908	-216,387	-199,864	-214,221	-272,052	-260,688

Notes: This table contains total net withdrawals for each State with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. Data for 1991 are final. All other data are preliminary at this time and are not considered final until publication of the *Natural Gas Annual* for that year.

Source: Form EIA-191.

**Table 17. Activities of Underground Natural Gas Storage Operators,  
by State, May 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	18,156	4,696	22,852	-803	-14.6	0	824
California .....	472,109	247,699	138,248	385,947	4,181	3.1	30,556	2,037
Colorado .....	105,790	45,210	20,272	65,481	2,437	13.7	2,995	328
Illinois .....	948,982	580,977	165,658	746,635	-581	-4	35,322	1,624
Indiana .....	106,177	71,070	18,033	89,102	2,619	17.0	2,183	925
Iowa .....	279,700	154,574	63,119	217,693	670	1.1	8,308	1,483
Kansas .....	281,058	189,073	46,806	235,879	-4,247	-8.3	25,442	597
Kentucky .....	210,242	105,481	72,407	177,888	-2,894	-3.8	6,912	487
Louisiana .....	539,200	244,712	80,245	324,957	-26,430	-24.8	30,983	2,145
Maryland .....	62,400	46,677	5,261	51,939	803	18.0	2,217	0
Michigan .....	1,043,782	415,626	226,823	642,449	2,566	1.1	77,573	2,269
Minnesota .....	7,000	4,655	1,141	5,796	-268	-19.0	318	0
Mississippi .....	114,627	47,792	42,525	90,317	695	1.7	8,702	1,691
Missouri .....	30,564	21,600	7,550	29,150	-374	-4.7	1,054	5
Montana .....	375,010	169,892	86,773	256,665	-23,373	-21.2	1,156	2,313
Nebraska .....	93,312	27,312	52,016	79,328	-1,752	-3.3	2,993	35
New Mexico .....	94,600	30,426	8,195	38,621	-3,632	-30.7	2,825	120
New York .....	167,835	102,962	30,875	133,838	-5,432	-15.0	11,226	304
Ohio .....	591,494	356,895	43,430	400,325	-20,171	-31.7	30,118	562
Oklahoma .....	359,616	175,574	104,717	280,291	-12,718	-10.8	21,332	746
Oregon .....	11,445	3,291	3,651	6,942	-131	-3.5	1,645	0
Pennsylvania .....	664,855	360,814	133,866	494,680	-7,043	-5.0	60,341	2,360
Texas .....	598,783	161,923	261,618	423,542	-24,218	-8.5	31,990	4,104
Utah .....	114,980	51,801	8,478	60,279	-4,953	-36.9	6,842	156
Washington .....	34,100	18,800	9,491	28,291	-188	-1.9	4,600	72
West Virginia .....	519,286	304,099	84,672	388,771	27,031	46.9	39,386	28
Wyoming .....	105,669	59,382	19,195	78,577	-8,648	-31.1	1,194	211
Total .....	7,974,893	4,016,474	1,739,760	5,756,234	-106,856	-5.8	448,111	25,426

Notes: Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Source: Form EIA-191.

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

(Million Cubic Feet)

State	YTD 1993	YTD 1992	YTD 1991	April 1993	March 1993	February 1993
Alabama .....	30,568	28,576	26,241	5,647	8,684	8,158
Alaska .....	6,976	6,820	6,513	1,288	1,471	2,138
Arizona .....	15,833	17,028	18,085	2,171	4,066	4,108
Arkansas .....	26,948	23,089	23,449	4,966	6,730	7,118
California .....	240,385	223,542	241,604	36,246	50,586	66,004
Colorado .....	59,148	50,868	53,890	9,846	14,948	15,899
Connecticut .....	24,097	23,200	20,508	3,989	6,171	7,302
Delaware .....	5,182	4,825	4,340	1,016	1,483	1,382
District of Columbia .....	9,997	9,540	8,815	1,624	2,838	2,795
Florida .....	6,917	7,447	6,052	1,474	1,917	1,863
Georgia .....	60,888	53,811	47,826	9,284	15,548	18,066
Hawaii .....	202	194	200	48	52	51
Idaho .....	6,946	4,851	5,583	1,040	1,699	1,951
Illinois .....	270,766	243,373	241,904	42,452	67,962	74,490
Indiana .....	96,113	81,393	80,738	18,591	23,916	25,844
Iowa .....	47,500	39,521	43,145	7,618	11,613	13,087
Kansas .....	51,367	37,895	43,422	9,179	12,859	13,524
Kentucky .....	36,539	32,337	31,871	5,012	9,241	11,198
Louisiana .....	30,535	29,259	28,970	5,584	7,945	8,415
Maine .....	483	481	381	71	115	153
Maryland .....	43,331	40,855	37,076	6,595	12,215	12,765
Massachusetts .....	68,561	67,122	58,681	13,205	18,299	18,816
Michigan .....	204,481	192,947	184,030	34,718	54,009	56,815
Minnesota .....	88,075	59,331	61,597	10,757	16,334	18,653
Mississippi .....	16,085	14,617	14,270	2,936	4,360	4,352
Missouri .....	82,102	63,689	70,681	13,437	21,536	21,888
Montana .....	10,385	7,766	9,344	1,674	2,591	2,490
Nebraska .....	27,600	21,428	24,386	4,864	7,316	6,276
Nevada .....	11,286	9,886	10,423	1,503	2,715	3,157
New Hampshire .....	3,859	3,756	3,246	721	1,009	1,081
New Jersey .....	116,823	109,512	98,606	19,991	31,606	34,599
New Mexico .....	17,853	17,556	17,110	2,795	4,021	4,731
New York .....	218,226	212,127	188,232	39,121	60,311	59,675
North Carolina .....	29,540	24,832	22,384	5,025	8,015	8,131
North Dakota .....	6,125	5,086	5,660	1,082	1,462	1,522
Ohio .....	198,560	185,361	178,097	32,070	52,407	58,420
Oklahoma .....	47,278	36,223	39,991	8,038	12,158	12,487
Oregon .....	16,738	13,116	14,569	2,533	3,844	4,570
Pennsylvania .....	152,819	148,193	135,836	24,905	42,213	43,867
Rhode Island .....	11,909	11,260	9,708	2,200	3,291	3,326
South Carolina .....	15,172	13,196	11,697	2,522	4,206	4,229
South Dakota .....	6,906	5,377	5,907	1,153	1,678	1,784
Tennessee .....	34,259	29,928	28,938	5,606	9,586	9,019
Texas .....	122,138	108,212	114,971	17,544	27,551	35,187
Utah .....	27,926	23,609	27,086	4,375	6,589	8,044
Vermont .....	1,582	1,508	1,270	271	433	446
Virginia .....	38,437	34,975	30,474	5,809	10,370	11,517
Washington .....	28,962	21,618	25,036	4,766	6,815	7,491
West Virginia .....	20,301	20,116	18,805	3,530	5,718	5,877
Wisconsin .....	72,099	65,240	66,030	12,524	18,077	18,478
Wyoming .....	6,237	5,021	6,370	1,075	1,526	1,659
<b>Total .....</b>	<b>2,753,006</b>	<b>2,491,514</b>	<b>2,454,049</b>	<b>454,491</b>	<b>702,104</b>	<b>764,898</b>

See footnote at end of table.

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

State	January 1993	Total 1992	December 1992	November 1992	October 1992	September 1992
Alabama .....	8,080	49,512	7,211	3,406	1,730	1,374
Alaska .....	2,079	14,350	1,682	1,442	1,209	643
Arizona .....	5,488	R 30,731	5,536	R 1,706	R 1,082	R 942
Arkansas .....	8,133	R 40,566	6,254	3,116	1,503	1,090
California .....	87,549	479,385	75,241	37,280	24,428	21,963
Colorado .....	18,455	94,482	15,673	7,588	3,538	2,637
Connecticut .....	6,635	42,201	5,828	3,859	2,261	1,150
Delaware .....	1,301	8,192	1,044	628	307	183
District of Columbia .....	2,740	16,651	2,222	1,319	645	448
Florida .....	1,662	14,519	1,781	965	691	641
Georgia .....	17,990	108,067	18,511	12,902	5,271	3,203
Hawaii .....	51	552	50	42	42	43
Idaho .....	2,256	9,601	1,934	1,018	425	272
Illinois .....	85,861	475,597	77,663	54,979	28,760	13,769
Indiana .....	27,761	153,048	24,299	15,978	8,374	3,966
Iowa .....	15,181	75,190	12,881	8,385	3,740	1,893
Kansas .....	15,804	70,552	12,565	6,013	2,386	1,772
Kentucky .....	11,087	61,827	10,567	6,975	3,360	1,406
Louisiana .....	8,590	54,990	8,328	4,187	2,217	1,981
Maine .....	144	866	110	69	40	17
Maryland .....	11,756	75,120	10,558	6,850	4,035	2,025
Massachusetts .....	18,241	120,079	14,459	10,082	5,354	3,378
Michigan .....	58,939	358,339	50,233	34,183	20,799	9,410
Minnesota .....	22,331	113,811	18,582	12,884	6,463	3,027
Mississippi .....	4,437	26,502	4,237	1,930	972	838
Missouri .....	25,241	118,212	20,455	11,056	4,522	3,064
Montana .....	3,631	16,814	3,091	1,807	1,115	733
Nebraska .....	9,143	41,702	7,135	4,593	2,044	1,104
Nevada .....	3,892	18,590	3,302	1,260	747	624
New Hampshire .....	1,048	6,449	750	526	288	151
New Jersey .....	30,626	198,943	27,819	17,997	10,393	5,351
New Mexico .....	6,306	30,813	5,091	1,953	1,012	871
New York .....	59,119	379,196	50,193	30,756	18,634	10,011
North Carolina .....	8,370	43,172	6,922	3,510	1,818	821
North Dakota .....	2,059	9,689	1,472	990	457	285
Ohio .....	55,663	341,461	49,672	34,264	20,980	8,131
Oklahoma .....	14,596	66,042	11,585	4,741	2,245	1,782
Oregon .....	5,790	24,921	4,331	2,186	1,115	710
Pennsylvania .....	41,835	266,396	36,580	24,788	15,842	6,945
Rhode Island .....	3,091	20,118	2,403	1,739	891	534
South Carolina .....	4,216	22,354	3,777	1,747	790	408
South Dakota .....	2,291	10,881	1,812	1,276	607	318
Tennessee .....	10,049	52,189	9,078	4,450	1,876	1,094
Texas .....	41,856	215,353	35,840	20,598	8,586	7,645
Utah .....	8,918	44,704	7,957	3,844	1,802	1,321
Vermont .....	412	2,520	308	205	129	53
Virginia .....	10,741	62,837	9,458	5,589	3,329	1,477
Washington .....	9,891	42,869	7,897	4,219	2,227	1,306
West Virginia .....	5,176	33,960	3,963	2,974	1,811	781
Wisconsin .....	23,020	124,024	19,175	13,299	7,668	3,245
Wyoming .....	1,978	R 10,149	1,798	R 983	R 506	R 330
Total .....	831,513	R 4,699,087	719,116	R 439,136	R 241,065	R 137,170

See footnote at end of table.

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

State	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama .....	1,312	1,413	1,774	2,717	5,017	5,495
Alaska .....	438	474	628	1,012	1,346	1,764
Arizona .....	R 882	R 1,025	R 1,225	R 1,308	R 2,503	R 3,902
Arkansas .....	1,118	1,188	1,363	1,845	3,808	R 5,433
California .....	22,034	22,390	24,094	28,414	37,300	46,844
Colorado .....	2,432	2,802	3,952	4,992	8,766	11,584
Connecticut .....	990	1,120	1,387	2,406	4,264	5,751
Delaware .....	179	196	301	528	947	1,158
District of Columbia .....	422	471	632	952	1,827	2 180
Florida .....	632	679	739	943	1,351	1,507
Georgia .....	2,974	3,162	3,527	4,706	7,341	12,856
Hawaii .....	42	45	46	47	46	48
Idaho .....	182	232	245	442	725	941
Illinois .....	11,177	10,399	12,972	22,505	40,778	59,216
Indiana .....	3,317	3,489	4,634	7,596	14,115	19,106
Iowa .....	1,674	1,552	2,195	3,349	6,886	8,517
Kansas .....	1,714	1,903	2,570	3,733	6,816	7,836
Kentucky .....	1,411	1,322	1,829	2,619	4,171	7,916
Louisiana .....	1,938	2,034	2,256	2,789	4,513	5,759
Maine .....	22	24	36	66	95	121
Maryland .....	2,067	2,151	2,575	4,004	7,081	9,770
Massachusetts .....	3,214	3,463	4,671	8,335	13,267	17,088
Michigan .....	8,632	8,750	11,895	21,488	36,323	47,750
Minnesota .....	2,530	2,708	3,137	5,147	10,413	14,039
Mississippi .....	801	872	957	1,279	2,457	2,862
Missouri .....	2,780	2,996	3,819	5,830	10,991	13,482
Montana .....	424	489	546	844	1,383	1,634
Nebraska .....	990	1,054	1,321	2,034	3,787	4,739
Nevada .....	543	690	714	825	1,432	2,151
New Hampshire .....	139	159	219	461	766	869
New Jersey .....	4,930	5,251	6,181	11,709	20,261	26,945
New Mexico .....	835	911	1,099	1,484	2,669	3,766
New York .....	9,652	10,514	13,473	23,835	41,551	53,494
North Carolina .....	769	879	1,352	2,270	4,552	5,298
North Dakota .....	214	260	311	613	1,002	1,128
Ohio .....	7,255	8,118	10,362	17,318	31,421	45,895
Oklahoma .....	1,719	1,956	2,559	3,232	5,985	7,325
Oregon .....	577	669	847	1,369	2,074	2,717
Pennsylvania .....	5,898	6,130	8,041	13,978	26,222	36,116
Rhode Island .....	423	636	771	1,461	2,298	2,802
South Carolina .....	385	423	596	1,032	2,291	2,645
South Dakota .....	256	267	324	643	1,004	1,212
Tennessee .....	1,046	1,114	1,430	2,175	4,834	6,026
Texas .....	7,492	8,013	8,678	10,289	14,656	21,275
Utah .....	1,255	1,406	1,524	1,986	3,184	4,870
Vermont .....	49	53	72	145	284	367
Virginia .....	1,416	1,505	1,800	3,290	5,922	8,005
Washington .....	954	907	1,377	2,366	3,721	4,699
West Virginia .....	630	652	1,054	1,980	3,850	4,430
Wisconsin .....	2,675	2,617	3,700	6,405	11,974	15,819
Wyoming .....	R 255	R 296	R 396	R 563	R 874	R 1,053
Total .....	R 125,699	R 131,830	R 162,205	R 251,353	R 431,143	R 578,144

See footnote at end of table.

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

State	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991
Alabama .....	9,278	8,786	46,149	6,396	3,886	1,793
Alaska .....	1,933	1,777	13,562	1,691	1,356	926
Arizona .....	<sup>R</sup> 4,566	<sup>R</sup> 6,057	31,353	4,664	1,895	1,077
Arkansas .....	6,689	7,158	40,639	5,481	3,895	1,524
California .....	61,552	77,846	508,697	67,035	39,238	26,211
Colorado .....	14,362	16,155	97,440	14,007	8,076	3,541
Connecticut .....	6,541	6,644	37,181	5,209	3,433	1,943
Delaware .....	1,417	1,303	7,189	892	547	261
District of Columbia .....	2,840	2,694	15,286	2,001	1,220	587
Florida .....	2,364	2,225	12,908	1,877	1,130	659
Georgia .....	14,495	19,119	96,662	15,812	12,479	4,829
Hawaii .....	50	51	545	46	44	42
Idaho .....	1,353	1,832	10,223	1,559	1,088	314
Illinois .....	63,042	80,337	466,970	71,109	61,099	27,231
Indiana .....	22,054	26,119	146,446	22,617	16,912	7,584
Iowa .....	11,686	12,432	78,801	12,377	8,906	4,082
Kansas .....	10,775	12,468	74,825	11,008	7,289	2,494
Kentucky .....	8,487	11,763	59,465	9,682	7,676	3,120
Louisiana .....	9,119	9,868	54,593	7,567	5,200	2,267
Maine .....	138	127	722	102	56	36
Maryland .....	11,573	12,431	69,235	9,961	6,625	3,691
Massachusetts .....	19,118	17,648	102,955	12,854	8,070	4,492
Michigan .....	52,520	56,354	337,205	49,160	33,409	18,491
Minnesota .....	15,944	18,935	117,148	18,529	14,101	6,654
Mississippi .....	4,579	4,719	25,756	3,625	2,357	1,024
Missouri .....	18,343	20,873	120,680	17,407	12,195	4,433
Montana .....	2,199	2,550	18,413	2,626	2,218	977
Nebraska .....	5,998	6,905	44,671	6,573	5,196	2,062
Nevada .....	2,682	3,621	19,135	2,941	1,315	680
New Hampshire .....	1,089	1,032	5,609	690	453	249
New Jersey .....	31,081	31,226	176,640	24,735	16,235	8,750
New Mexico .....	5,270	5,851	29,767	4,398	1,926	1,052
New York .....	59,004	58,079	338,892	46,288	29,610	16,338
North Carolina .....	7,419	7,623	37,976	5,647	3,751	1,486
North Dakota .....	1,455	1,500	10,338	1,489	1,187	441
Ohio .....	50,377	57,669	321,724	48,007	35,764	17,321
Oklahoma .....	10,699	12,213	69,200	10,069	6,915	2,327
Oregon .....	3,535	4,790	26,324	3,554	2,106	710
Pennsylvania .....	41,778	44,077	242,728	34,139	23,637	13,403
Rhode Island .....	3,128	3,031	17,366	2,186	1,436	870
South Carolina .....	4,064	4,196	19,612	3,122	1,969	645
South Dakota .....	1,509	1,652	11,218	1,595	1,434	609
Tennessee .....	8,803	10,264	49,358	7,616	5,085	1,898
Texas .....	32,042	40,239	222,200	32,840	23,812	10,188
Utah .....	7,133	8,422	50,572	7,841	4,293	1,802
Vermont .....	426	431	2,203	314	187	110
Virginia .....	10,172	10,876	54,199	7,782	5,473	2,516
Washington .....	5,942	7,256	46,222	6,336	4,403	1,716
West Virginia .....	5,941	5,895	32,558	4,718	3,207	1,736
Wisconsin .....	17,407	20,041	124,081	18,803	14,481	7,348
Wyoming .....	<sup>R</sup> 1,371	<sup>R</sup> 1,723	11,992	1,665	1,179	568
<b>Total .....</b>	<sup>R</sup> 695,342	<sup>R</sup> 786,885	4,555,631	658,445	459,452	225,106

<sup>R</sup> = Revised Data.

<sup>NA</sup> = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857.



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

State	YTD 1993	YTD 1992	YTD 1991	April 1993	March 1993	February 1993
Alabama .....	13,137	12,416	11,558	2,533	3,586	3,536
Alaska .....	8,877	9,039	9,012	1,864	2,052	2,472
Arizona .....	11,459	12,519	12,544	2,423	2,958	2,821
Arkansas .....	15,795	13,338	13,704	2,913	3,984	4,159
California .....	108,310	105,087	110,210	19,735	23,433	33,803
Colorado .....	38,228	33,793	36,356	6,568	9,531	10,235
Connecticut .....	18,468	15,529	14,231	2,874	4,286	4,816
Delaware .....	2,961	2,741	2,323	569	850	810
District of Columbia .....	8,420	8,495	8,023	1,534	2,144	2,414
Florida .....	16,017	16,192	14,793	3,820	4,019	4,009
Georgia .....	27,906	25,088	23,714	4,807	7,674	7,849
Hawaii .....	731	728	725	177	179	190
Idaho .....	5,636	4,208	4,917	833	1,302	1,684
Illinois .....	107,041	96,736	97,533	17,422	27,391	29,395
Indiana .....	44,071	36,844	36,865	8,281	10,961	11,915
Iowa .....	27,398	22,655	24,752	4,296	6,728	7,735
Kansas .....	28,984	20,855	27,619	5,102	7,151	7,669
Kentucky .....	19,439	17,480	16,982	2,925	5,183	5,596
Louisiana .....	12,033	11,904	11,885	2,398	3,105	3,237
Maine .....	1,204	1,171	963	192	291	364
Maryland .....	22,654	21,622	18,909	3,741	6,180	6,512
Massachusetts .....	31,301	30,655	27,649	5,977	8,544	8,627
Michigan .....	98,210	91,793	89,895	18,061	25,301	27,087
Minnesota .....	45,844	41,642	43,193	7,212	11,239	12,781
Mississippi .....	10,182	8,810	8,543	1,769	2,675	2,944
Missouri .....	37,877	31,423	34,421	6,388	9,879	10,244
Montana .....	7,089	5,242	6,365	1,144	1,751	1,715
Nebraska .....	17,344	13,704	15,138	3,058	4,508	3,976
Nevada .....	7,738	7,324	7,622	1,318	2,023	2,118
New Hampshire .....	3,491	3,235	2,749	612	912	974
New Jersey .....	70,349	67,354	61,120	13,341	19,219	20,061
New Mexico .....	12,906	11,965	12,931	2,347	2,834	3,459
New York .....	107,040	110,692	95,285	20,341	28,599	29,381
North Carolina .....	18,862	17,081	16,214	3,284	5,012	5,196
North Dakota .....	5,655	4,889	5,413	926	1,340	1,478
Ohio .....	91,945	86,343	82,740	14,936	25,384	26,552
Oklahoma .....	22,802	17,948	21,475	3,732	5,889	6,128
Oregon .....	12,314	9,136	11,292	1,926	2,877	3,367
Pennsylvania .....	71,282	69,360	66,211	11,788	19,653	20,667
Rhode Island .....	4,733	4,147	3,540	908	1,327	1,358
South Carolina .....	7,905	7,534	7,165	1,467	2,141	2,098
South Dakota .....	5,691	4,381	4,756	996	1,346	1,499
Tennessee .....	26,813	23,548	23,792	4,626	7,318	7,548
Texas .....	81,475	65,365	77,334	16,820	18,810	21,203
Utah .....	11,145	9,302	11,220	1,605	2,695	3,308
Vermont .....	1,264	1,272	1,091	199	350	368
Virginia .....	26,301	23,325	21,472	4,671	7,012	7,475
Washington .....	22,240	17,523	20,234	4,175	5,209	5,727
West Virginia .....	11,406	10,988	10,276	1,987	3,218	3,272
Wisconsin .....	43,102	38,009	37,467	7,204	10,773	12,112
Wyoming .....	4,496	3,656	4,716	787	1,104	1,199
Total .....	1,453,568	1,326,077	1,328,939	258,591	371,982	405,142

See footnote at end of table.

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

State	January 1993	Total 1992	December 1992	November 1992	October 1992	September 1992
Alabama .....	3,483	24,951	3,263	1,967	1,311	1,128
Alaska .....	2,488	21,299	2,390	1,928	1,790	1,252
Arizona .....	3,257	² 27,842	3,414	2,023	1,754	¹ 1,601
Arkansas .....	4,739	² 25,832	3,667	2,064	1,212	1,024
California .....	29,338	285,804	28,780	21,029	19,149	19,282
Colorado .....	11,894	66,308	10,285	5,581	3,074	2,307
Connecticut .....	4,490	29,547	3,826	2,592	1,545	1,064
Delaware .....	732	4,999	626	398	242	164
District of Columbia .....	2,328	16,165	1,929	1,107	755	658
Florida .....	4,169	41,895	4,125	3,522	3,078	2,812
Georgia .....	7,576	53,708	7,594	4,627	3,199	2,461
Hawaii .....	185	2,144	184	178	160	178
Idaho .....	1,817	8,971	1,564	893	467	371
Illinois .....	32,833	194,517	31,166	22,460	12,247	6,553
Indiana .....	12,915	72,552	12,067	8,128	4,249	2,115
Iowa .....	8,639	46,046	7,817	5,837	2,845	1,434
Kansas .....	9,061	51,966	7,235	4,699	3,049	3,016
Kentucky .....	5,734	35,485	5,494	4,070	2,230	1,217
Louisiana .....	3,293	² 25,669	3,141	1,923	1,463	1,390
Maine .....	356	2,184	282	186	115	67
Maryland .....	6,220	42,494	5,561	3,892	2,490	1,815
Massachusetts .....	8,152	60,720	6,779	5,288	3,552	2,583
Michigan .....	27,761	173,448	24,021	16,208	9,743	5,452
Minnesota .....	14,562	81,208	11,722	9,509	5,073	2,833
Mississippi .....	2,794	18,328	2,534	1,462	947	883
Missouri .....	11,366	59,573	9,195	5,131	2,815	1,918
Montana .....	2,480	11,606	2,103	1,276	813	525
Nebraska .....	5,802	34,824	4,953	4,000	2,535	1,735
Nevada .....	2,280	16,226	2,172	1,031	990	879
New Hampshire .....	994	5,866	715	515	295	174
New Jersey .....	17,728	131,106	16,440	10,997	7,117	5,413
New Mexico .....	4,266	27,073	4,137	2,276	1,675	1,532
New York .....	28,719	219,655	26,740	16,889	12,967	9,695
North Carolina .....	5,370	35,303	4,760	2,885	2,051	1,835
North Dakota .....	1,912	9,756	1,549	1,015	576	363
Ohio .....	25,073	158,637	23,534	14,908	8,967	4,315
Oklahoma .....	7,052	34,894	5,597	2,803	1,452	1,245
Oregon .....	4,144	² 19,514	3,157	¹ 1,647	¹ 1,102	¹ 860
Pennsylvania .....	19,175	131,483	18,000	12,471	8,233	4,450
Rhode Island .....	1,139	8,479	949	546	345	398
South Carolina .....	2,199	16,480	2,063	1,328	994	869
South Dakota .....	1,850	9,183	1,476	1,104	558	325
Tennessee .....	7,321	45,472	5,658	3,950	2,361	1,954
Texas .....	24,643	168,754	20,338	16,093	10,359	10,101
Utah .....	3,537	16,581	3,120	1,329	545	405
Vermont .....	347	2,319	269	211	144	77
Virginia .....	7,144	49,019	6,664	4,585	3,167	1,860
Washington .....	7,129	37,927	5,738	3,434	2,250	1,719
West Virginia .....	2,929	21,935	3,021	1,876	1,363	882
Wisconsin .....	13,012	73,706	11,289	8,124	4,384	2,080
Wyoming .....	1,425	² 7,470	1,265	² 700	² 404	² 265
Total .....	417,854	² 2,766,922	374,369	² 252,494	² 163,807	² 118,938

See footnote at end of table.

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

State	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama .....	1,069	1,099	1,209	1,491	2,240	2,780
Alaska .....	1,013	1,084	1,206	1,597	1,935	2,319
Arizona .....	R 1,504	1,654	R 1,754	R 1,620	2,584	3,178
Arkansas .....	1,019	1,058	1,103	1,349	2,011	R 3,263
California .....	21,738	21,269	22,213	27,256	18,415	24,477
Colorado .....	2,179	2,424	3,045	3,621	5,946	7,673
Connecticut .....	1,051	1,036	1,139	1,764	2,915	3,905
Delaware .....	153	167	199	310	541	691
District of Columbia .....	676	720	767	1,060	1,780	2,140
Florida .....	2,844	2,938	3,045	3,338	3,693	3,829
Georgia .....	2,502	2,542	2,597	3,099	4,366	5,754
Hawaii .....	173	174	184	177	183	174
Idaho .....	332	346	344	449	645	838
Illinois .....	5,963	5,757	4,863	8,772	17,380	23,099
Indiana .....	1,953	1,798	2,002	3,397	6,311	8,452
Iowa .....	1,258	1,100	1,426	1,875	3,878	4,942
Kansas .....	3,332	3,474	2,710	3,596	4,401	4,205
Kentucky .....	1,168	1,075	1,142	1,611	2,620	3,918
Louisiana .....	1,289	1,447	1,414	1,699	2,183	R 2,653
Maine .....	51	78	80	156	227	312
Maryland .....	1,586	1,553	1,784	2,390	3,805	5,121
Massachusetts .....	2,717	2,890	2,331	3,925	6,425	7,950
Michigan .....	4,980	5,004	5,889	10,359	17,653	22,915
Minnesota .....	2,303	2,245	2,476	3,606	7,509	10,119
Mississippi .....	880	903	900	1,008	1,495	1,756
Missouri .....	1,893	1,750	2,528	3,120	5,554	6,776
Montana .....	332	366	379	570	934	1,104
Nebraska .....	2,402	2,374	1,335	1,786	2,417	3,015
Nevada .....	831	1,024	954	1,020	1,347	1,740
New Hampshire .....	169	179	208	376	629	763
New Jersey .....	4,935	5,211	5,271	8,367	13,983	16,693
New Mexico .....	1,490	1,188	1,147	1,663	2,285	2,615
New York .....	9,577	9,419	10,023	13,654	23,218	27,933
North Carolina .....	1,546	1,524	1,678	2,145	3,217	3,881
North Dakota .....	262	279	298	524	937	1,082
Ohio .....	4,162	4,187	4,903	7,318	15,696	20,012
Oklahoma .....	1,292	1,424	1,546	1,788	2,927	3,667
Oregon .....	R 780	R 782	R 882	R 1,167	R 1,537	R 1,919
Pennsylvania .....	4,013	3,932	4,407	6,617	11,917	17,307
Rhode Island .....	475	444	493	682	800	1,103
South Carolina .....	877	817	940	1,057	1,422	1,727
South Dakota .....	284	291	303	460	828	1,063
Tennessee .....	1,704	1,833	2,017	2,449	4,193	5,200
Texas .....	12,207	13,220	9,624	11,448	12,962	14,284
Utah .....	372	410	457	642	1,155	1,866
Vermont .....	75	79	75	118	231	320
Virginia .....	2,001	2,027	2,203	3,186	4,360	5,749
Washington .....	1,505	1,578	1,830	2,350	3,195	3,874
West Virginia .....	839	791	960	1,214	2,030	2,730
Wisconsin .....	1,745	1,852	2,250	3,962	7,040	9,335
Wyoming .....	R 248	R 244	R 285	R 404	R 615	R 756
Total .....	R 119,746	R 121,059	R 122,819	R 167,613	R 246,656	R 312,985

See footnote at end of table.

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

State	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991
Alabama .....	3,736	3,660	23,711	2,968	2,120	1,311
Alaska .....	2,372	2,414	20,897	2,308	1,930	1,561
Arizona .....	3,290	3,467	27,633	3,081	1,944	1,611
Arkansas .....	3,811	4,171	25,986	3,297	2,497	1,184
California .....	23,946	38,250	287,618	27,380	20,110	26,510
Colorado .....	9,417	10,757	68,953	9,496	6,098	3,018
Connecticut .....	4,334	4,376	26,838	3,396	2,396	1,423
Delaware .....	760	749	4,253	541	354	203
District of Columbia .....	2,265	2,309	15,550	1,764	1,071	658
Florida .....	4,313	4,358	39,271	3,954	3,520	2,799
Georgia .....	6,918	8,049	51,036	6,670	5,153	3,082
Hawaii .....	180	190	2,148	185	178	177
Idaho .....	1,172	1,550	9,582	1,321	942	424
Illinois .....	26,168	30,088	193,849	28,564	23,098	11,574
Indiana .....	10,151	11,929	68,431	10,240	7,826	3,617
Iowa .....	6,700	7,135	46,559	7,159	5,280	2,479
Kansas .....	5,651	6,598	58,571	5,536	6,075	2,656
Kentucky .....	4,759	6,184	33,700	5,161	4,197	1,862
Louisiana .....	3,613	3,454	25,461	2,843	2,347	1,441
Maine .....	315	318	1,860	276	152	103
Maryland .....	6,377	6,318	38,117	5,132	3,582	2,289
Massachusetts .....	8,402	7,878	53,189	6,027	4,048	2,666
Michigan .....	24,765	26,460	165,561	23,131	12,966	9,450
Minnesota .....	11,064	12,949	85,875	12,580	10,392	5,399
Mississippi .....	2,737	2,822	17,743	2,208	1,721	989
Missouri .....	8,976	10,116	63,191	8,864	6,471	2,689
Montana .....	1,471	1,733	12,848	1,791	1,559	724
Nebraska .....	3,892	4,380	40,291	4,037	3,468	2,056
Nevada .....	1,889	2,348	16,968	1,977	1,096	1,105
New Hampshire .....	931	911	5,028	643	420	256
New Jersey .....	19,072	17,607	121,240	16,069	9,914	7,210
New Mexico .....	3,217	3,848	24,993	3,586	1,861	1,034
New York .....	30,121	28,420	199,623	25,124	17,035	11,573
North Carolina .....	4,939	5,044	34,314	4,162	3,200	2,052
North Dakota .....	1,380	1,490	10,734	1,536	1,241	633
Ohio .....	24,563	26,072	150,407	21,950	15,495	8,069
Oklahoma .....	5,242	6,111	39,596	5,654	3,975	1,590
Oregon .....	<sup>R</sup> 2,457	<sup>R</sup> 3,222	22,328	2,758	1,898	927
Pennsylvania .....	19,564	20,572	125,549	17,451	12,251	7,439
Rhode Island .....	1,149	1,095	8,277	896	497	629
South Carolina .....	2,135	2,251	15,796	1,917	1,492	952
South Dakota .....	1,174	1,315	9,476	1,286	1,176	588
Tennessee .....	6,816	7,338	45,955	6,159	4,305	2,454
Texas .....	16,843	21,266	181,760	20,713	17,299	11,244
Utah .....	2,951	3,330	19,282	2,704	1,635	551
Vermont .....	354	366	2,058	284	188	133
Virginia .....	6,432	6,783	44,077	5,701	3,855	2,625
Washington .....	4,862	5,592	41,805	5,065	3,807	2,102
West Virginia .....	3,056	3,173	21,037	2,766	2,168	1,364
Wisconsin .....	10,165	11,469	71,539	10,941	8,568	4,336
Wyoming .....	<sup>R</sup> 993	<sup>R</sup> 1,292	9,105	1,234	873	450
Total .....	<sup>R</sup> 361,861	<sup>R</sup> 404,575	2,729,668	350,493	255,746	163,268

<sup>R</sup> = Revised Data.

<sup>NA</sup> = Not Available.

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

Source: Form EIA-857.

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

State	YTD 1993	YTD 1992	YTD 1991	April 1993	March 1993	February 1993
Alabama .....	61,936	56,913	52,228	14,936	15,876	15,204
Alaska .....	26,522	27,507	25,548	6,218	6,255	6,295
Arizona .....	7,119	6,779	6,750	1,867	1,979	1,561
Arkansas .....	38,308	41,467	38,617	8,867	10,181	9,217
California .....	143,916	158,714	205,080	34,133	38,195	39,026
Colorado .....	30,189	16,094	21,477	7,333	7,182	7,642
Connecticut .....	14,712	13,633	11,354	3,176	3,903	4,043
Delaware .....	6,786	5,766	5,692	1,726	1,778	1,571
District of Columbia .....	0	0	0	0	0	0
Florida .....	32,123	23,858	29,855	7,930	8,376	7,997
Georgia .....	55,293	59,560	56,634	13,607	14,050	13,545
Hawaii .....	0	0	0	0	0	0
Idaho .....	10,586	9,451	9,388	2,383	2,759	2,718
Illinois .....	121,512	117,215	116,781	24,082	31,780	33,401
Indiana .....	99,640	87,464	83,075	23,950	25,475	24,817
Iowa .....	35,448	34,456	32,783	7,845	9,430	9,034
Kansas .....	42,005	41,427	43,834	9,353	10,179	11,665
Kentucky .....	28,530	27,986	25,907	6,099	7,391	7,751
Louisiana .....	303,118	385,739	304,845	75,503	75,882	73,504
Maine .....	558	708	756	142	136	126
Maryland .....	16,742	18,134	17,350	3,629	4,626	4,276
Massachusetts .....	17,263	17,845	17,481	4,088	4,441	4,303
Michigan .....	120,308	116,023	101,050	27,466	31,945	31,055
Minnesota .....	33,881	35,969	34,081	7,067	8,809	8,659
Mississippi .....	37,892	40,013	34,467	9,606	9,623	8,632
Missouri .....	23,176	22,375	21,486	4,922	5,986	5,727
Montana .....	4,384	3,934	3,646	926	1,189	1,064
Nebraska .....	10,733	8,814	9,240	3,647	2,743	1,807
Nevada .....	7,193	2,150	2,266	2,754	1,483	1,141
New Hampshire .....	1,314	1,354	1,258	366	325	304
New Jersey .....	67,451	45,021	35,781	16,500	16,846	16,874
New Mexico .....	5,885	7,141	6,622	1,532	1,416	1,457
New York .....	55,378	53,056	44,313	12,742	14,533	13,927
North Carolina .....	32,772	32,653	28,853	8,128	8,683	7,691
North Dakota .....	2,307	2,236	1,732	504	582	586
Ohio .....	115,550	110,663	102,805	26,109	30,705	29,456
Oklahoma .....	61,471	62,942	61,536	14,612	15,378	15,046
Oregon .....	21,229	24,244	18,758	5,329	5,107	4,878
Pennsylvania .....	93,402	91,922	85,245	21,172	24,911	23,817
Rhode Island .....	12,431	13,069	7,089	3,093	3,130	3,069
South Carolina .....	32,097	31,777	27,765	7,989	8,761	7,428
South Dakota .....	1,799	1,719	1,915	364	459	462
Tennessee .....	42,176	44,208	41,110	9,423	10,460	10,372
Texas .....	569,367	631,475	540,114	143,919	142,528	129,175
Utah .....	19,812	17,343	14,580	3,981	4,589	5,142
Vermont .....	766	755	655	173	191	187
Virginia .....	33,938	24,697	20,160	7,327	8,191	9,401
Washington .....	32,938	29,104	27,420	7,503	8,979	8,143
West Virginia .....	16,591	14,583	13,962	3,984	4,452	3,962
Wisconsin .....	54,907	49,741	52,059	11,926	13,829	14,159
Wyoming .....	14,978	16,106	10,812	3,925	2,995	3,789
Total .....	2,618,431	2,691,948	2,456,217	623,835	669,031	645,108

See footnotes at end of table

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

State	January 1993	Total 1992	December 1992	November 1992	October 1992	September 1992
Alabama .....	15,920	169,019	14,861	14,735	13,959	13,572
Alaska .....	7,754	80,897	7,882	7,333	7,806	4,839
Arizona .....	1,713	20,414	1,952	1,613	1,743	1,643
Arkansas .....	10,043	118,020	10,454	9,794	9,644	9,670
California .....	32,563	474,578	39,247	40,014	32,765	42,482
Colorado .....	8,032	47,768	5,473	4,511	4,235	3,882
Connecticut .....	3,590	36,384	3,490	3,102	2,867	2,732
Delaware .....	1,713	18,113	1,766	1,899	1,796	1,437
District of Columbia .....	0	0	0	0	0	0
Florida .....	7,821	82,333	7,367	6,754	6,092	6,419
Georgia .....	14,091	172,272	13,942	14,103	14,223	13,850
Hawaii .....	0	0	0	0	0	0
Idaho .....	2,726	26,991	2,618	2,504	2,354	1,897
Illinois .....	32,249	303,146	31,704	26,893	24,758	21,167
Indiana .....	25,399	242,255	24,469	22,185	20,515	17,974
Iowa .....	9,140	101,736	9,560	9,779	8,484	7,875
Kansas .....	10,807	131,386	13,416	12,557	13,817	10,166
Kentucky .....	7,309	73,384	6,929	6,753	5,992	5,057
Louisiana .....	78,228	990,471	74,862	74,939	80,646	71,952
Maine .....	152	2,048	165	207	152	164
Maryland .....	4,210	49,633	4,174	4,320	3,923	3,648
Massachusetts .....	4,430	49,090	3,563	3,813	3,930	4,051
Michigan .....	29,841	308,689	27,802	28,677	24,210	21,300
Minnesota .....	9,346	92,882	8,899	8,825	6,973	6,242
Mississippi .....	10,030	115,130	9,563	9,421	9,623	9,511
Missouri .....	6,541	58,287	5,791	5,266	4,598	3,918
Montana .....	1,203	12,068	1,263	1,327	1,122	1,055
Nebraska .....	2,536	25,728	2,346	2,544	2,179	2,004
Nevada .....	1,816	6,375	529	533	619	451
New Hampshire .....	318	3,767	287	301	266	331
New Jersey .....	17,230	152,615	13,988	15,186	15,883	13,758
New Mexico .....	1,480	17,921	1,603	1,454	1,569	1,295
New York .....	14,175	145,551	15,480	12,410	11,278	11,059
North Carolina .....	8,270	94,044	7,949	7,975	7,932	7,447
North Dakota .....	635	5,917	570	525	484	406
Ohio .....	29,280	295,101	29,314	26,597	24,002	21,189
Oklahoma .....	16,435	179,474	15,342	14,751	13,602	14,253
Oregon .....	5,565	73,471	5,833	6,395	7,029	6,903
Pennsylvania .....	23,501	244,636	21,913	21,524	19,144	17,994
Rhode Island .....	3,138	37,668	3,153	2,954	3,029	2,970
South Carolina .....	7,920	94,516	6,992	8,329	7,807	7,810
South Dakota .....	515	4,583	526	414	330	278
Tennessee .....	11,931	123,736	10,493	10,705	10,337	9,594
Texas .....	153,745	1,929,247	167,910	153,892	155,125	166,255
Utah .....	6,121	46,356	5,112	4,636	3,635	3,077
Vermont .....	215	1,958	196	169	167	145
Virginia .....	9,020	78,917	6,566	5,941	4,773	6,423
Washington .....	8,313	84,030	7,255	7,019	7,198	6,482
West Virginia .....	4,182	43,690	4,225	3,854	3,809	3,481
Wisconsin .....	14,993	128,883	13,723	12,412	10,162	8,648
Wyoming .....	4,269	49,790	4,150	3,923	4,358	4,327
Total .....	680,457	7,644,943	676,667	645,786	620,321	603,084

See footnotes at end of table

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

State	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama .....	13,287	14,009	13,762	13,921	13,568	14,967
Alaska .....	5,353	6,964	6,314	6,899	6,692	6,558
Arizona .....	1,663	1,702	1,697	1,623	1,727	1,813
Arkansas .....	9,211	9,028	8,994	9,758	9,747	10,751
California .....	40,160	35,278	38,165	47,753	26,800	38,776
Colorado .....	³ 3,358	³ 3,495	³ 3,452	3,268	³ 3,764	³ 3,824
Connecticut .....	2,643	2,522	2,621	2,775	3,241	3,672
Delaware .....	1,358	1,241	1,346	1,505	1,552	1,434
District of Columbia .....	0	0	0	0	0	0
Florida .....	6,509	6,485	6,802	7,066	7,189	7,280
Georgia .....	13,856	14,373	13,987	14,378	14,578	15,690
Hawaii .....	0	0	0	0	0	0
Idaho .....	1,659	1,977	2,243	2,289	2,245	2,466
Illinois .....	18,791	20,223	19,422	22,974	25,862	29,603
Indiana .....	16,678	16,894	17,505	18,571	19,536	22,700
Iowa .....	7,734	8,173	7,894	7,801	8,258	8,903
Kansas .....	10,159	10,248	10,110	9,687	10,603	9,921
Kentucky .....	5,245	4,726	5,197	5,498	6,195	7,152
Louisiana .....	71,020	73,809	70,611	86,893	96,724	97,065
Maine .....	162	161	157	172	219	203
Maryland .....	3,741	3,980	3,754	3,960	4,481	5,126
Massachusetts .....	4,065	3,383	3,886	4,555	5,637	4,248
Michigan .....	22,088	20,529	22,801	25,258	28,742	31,251
Minnesota .....	6,367	6,473	6,158	6,976	7,866	8,650
Mississippi .....	8,805	9,326	9,374	9,494	10,031	10,581
Missouri .....	4,088	3,889	4,079	4,263	5,027	5,531
Montana .....	893	871	772	831	860	853
Nebraska .....	2,044	2,015	2,082	1,699	2,130	2,051
Nevada .....	503	488	540	562	560	564
New Hampshire .....	328	297	296	308	416	310
New Jersey .....	13,102	11,947	12,170	10,616	12,536	11,636
New Mexico .....	1,325	1,092	1,055	1,386	1,645	1,544
New York .....	10,190	10,496	10,693	10,890	12,284	13,783
North Carolina .....	7,676	7,120	7,560	7,730	7,802	8,799
North Dakota .....	390	438	420	446	472	608
Ohio .....	19,938	20,014	21,152	22,231	26,523	26,362
Oklahoma .....	14,619	14,917	14,321	14,727	14,659	16,086
Oregon .....	6,651	6,262	5,421	4,733	4,904	5,452
Pennsylvania .....	17,537	17,963	17,282	19,357	21,442	23,856
Rhode Island .....	³ 2,977	³ 3,299	³ 3,068	³ 3,148	³ 3,393	³ 3,176
South Carolina .....	7,729	7,945	8,145	8,182	8,187	8,983
South Dakota .....	246	383	323	346	418	482
Tennessee .....	9,767	10,019	9,160	9,452	10,996	11,059
Texas .....	162,873	167,715	156,311	167,691	161,117	166,927
Utah .....	3,097	3,086	3,199	3,172	3,513	4,218
Vermont .....	130	119	128	149	141	223
Virginia .....	7,326	10,629	6,030	6,531	6,081	6,350
Washington .....	8,232	5,907	6,517	6,316	6,668	7,132
West Virginia .....	³ 3,451	3,360	³ 3,487	3,439	³ 3,618	3,838
Wisconsin .....	8,195	7,714	8,713	9,576	11,635	13,128
Wyoming .....	4,048	4,306	4,425	4,147	3,874	4,085
Total .....	³ 591,268	³ 597,270	³ 583,601	³ 635,000	³ 646,159	³ 689,669

See footnotes at end of table

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

State	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991
Alabama .....	13,887	14,491	154,825	13,500	13,361	13,604
Alaska .....	6,907	7,350	75,837	6,909	6,727	5,563
Arizona .....	1,671	1,567	19,204	1,644	1,578	1,594
Arkansas .....	9,815	11,154	104,850	9,638	9,123	8,447
California .....	43,267	49,871	602,619	49,535	42,637	55,464
Colorado .....	<sup>R</sup> 4,159	<sup>R</sup> 4,347	56,176	5,290	4,888	4,368
Connecticut .....	3,376	3,343	32,660	3,229	3,120	2,898
Delaware .....	1,413	1,366	16,147	1,332	1,322	1,387
District of Columbia .....	0	0	0	0	0	0
Florida .....	6,711	7,679	83,398	7,763	7,171	6,572
Georgia .....	14,536	14,756	167,098	13,913	14,178	14,360
Hawaii .....	0	0	0	0	0	0
Idaho .....	2,246	2,493	26,662	2,483	2,302	2,346
Illinois .....	30,058	31,692	302,891	31,841	30,248	24,392
Indiana .....	21,807	23,421	227,769	22,133	21,081	18,375
Iowa .....	8,427	8,868	97,446	8,834	8,705	8,911
Kansas .....	9,590	11,314	123,517	10,905	11,399	9,505
Kentucky .....	7,037	7,603	71,637	7,072	7,211	6,476
Louisiana .....	92,636	99,314	924,662	78,739	77,004	76,759
Maine .....	159	127	2,207	203	233	208
Maryland .....	4,272	4,255	47,150	4,418	3,948	3,827
Massachusetts .....	3,980	3,980	54,750	4,035	4,179	4,238
Michigan .....	28,495	27,536	271,987	27,166	19,918	21,564
Minnesota .....	9,631	9,823	92,251	8,422	8,505	7,171
Mississippi .....	8,690	10,711	104,622	9,360	9,553	9,362
Missouri .....	5,485	6,332	57,186	5,664	5,193	4,557
Montana .....	1,085	1,135	9,873	1,221	1,120	988
Nebraska .....	2,334	2,300	24,758	2,156	2,027	2,037
Nevada .....	489	537	6,624	513	517	594
New Hampshire .....	325	303	3,457	288	294	317
New Jersey .....	11,428	10,564	100,768	9,021	9,151	9,790
New Mexico .....	1,913	2,040	19,346	2,576	1,700	1,336
New York .....	13,996	12,993	118,944	12,252	10,469	9,975
North Carolina .....	8,126	7,926	84,863	7,304	7,632	7,881
North Dakota .....	528	627	5,123	603	535	538
Ohio .....	28,611	29,168	279,750	26,819	25,227	24,179
Oklahoma .....	15,668	16,528	180,695	15,711	15,370	15,664
Oregon .....	6,929	6,959	55,049	4,632	4,841	4,838
Pennsylvania .....	23,540	23,084	231,375	21,156	20,644	19,351
Rhode Island .....	3,525	2,976	26,867	3,303	3,280	3,359
South Carolina .....	7,634	6,973	85,790	6,841	7,405	7,806
South Dakota .....	439	380	4,658	368	421	404
Tennessee .....	10,671	11,483	115,786	10,622	10,281	8,640
Texas .....	138,250	165,181	1,772,691	166,382	157,045	163,516
Utah .....	4,314	5,299	43,120	5,903	4,504	3,443
Vermont .....	200	190	1,717	187	176	152
Virginia .....	6,072	6,194	59,962	5,103	4,506	4,805
Washington .....	7,464	7,840	79,735	7,688	7,417	7,044
West Virginia .....	<sup>R</sup> 3,465	<sup>R</sup> 3,662	40,889	3,453	3,423	3,868
Wisconsin .....	12,953	12,024	128,798	13,287	12,460	10,343
Wyoming .....	4,096	4,050	33,174	3,265	3,287	3,203
Total .....	<sup>R</sup> 652,309	<sup>R</sup> 703,809	7,230,963	664,662	627,317	626,020

<sup>R</sup> = Revised Data.

<sup>NA</sup> = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857.



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

State	YTD 1993	YTD 1992	YTD 1991	April 1993	March 1993	February 1993
Alabama .....	914	1,002	1,076	144	215	306
Alaska .....	9,953	9,615	11,651	2,155	2,482	2,535
Arizona .....	4,441	7,423	4,221	1,402	1,921	588
Arkansas .....	1,176	8,862	6,771	311	280	263
California .....	153,057	164,381	138,521	32,390	38,720	40,118
Colorado .....	1,793	1,374	1,231	354	514	394
Connecticut .....	117	877	168	10	20	62
Delaware .....	794	2,042	3,652	322	253	55
District of Columbia .....	0	0	0	0	0	0
Florida .....	46,861	61,895	60,671	12,549	12,232	11,459
Georgia .....	116	133	71	33	22	49
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	1,832	4,392	3,138	445	482	396
Indiana .....	2,002	3,289	1,691	437	457	450
Iowa .....	749	630	565	238	169	106
Kansas .....	2,933	3,056	6,487	649	920	670
Kentucky .....	62	88	85	27	11	12
Louisiana .....	45,022	70,137	60,053	10,869	14,087	9,246
Maine .....	0	0	0	0	0	0
Maryland .....	1,325	1,980	2,653	187	560	349
Massachusetts .....	7,036	4,371	7,586	3,815	2,955	128
Michigan .....	5,990	10,306	5,832	925	1,380	1,904
Minnesota .....	669	1,864	1,614	185	164	144
Mississippi .....	6,289	19,273	14,897	1,335	2,114	1,249
Missouri .....	310	515	1,576	63	113	75
Montana .....	39	28	32	4	15	16
Nebraska .....	411	597	961	148	111	48
Nevada .....	5,473	5,488	4,050	1,695	2,305	926
New Hampshire .....	6	0	0	6	0	0
New Jersey .....	3,558	7,808	13,779	329	1,508	1,383
New Mexico .....	8,766	6,172	8,506	2,811	2,793	1,699
New York .....	47,430	59,515	46,383	14,335	12,983	9,569
North Carolina .....	612	867	784	99	141	205
North Dakota .....	0	1	0	0	0	0
Ohio .....	1,303	1,289	713	102	417	432
Oklahoma .....	39,449	45,192	42,168	10,485	10,268	9,249
Oregon .....	5,177	4,129	544	0	1,990	2,074
Pennsylvania .....	3,383	536	670	337	1,133	1,156
Rhode Island .....	0	133	232	0	0	0
South Carolina .....	127	824	356	21	69	20
South Dakota .....	12	3	1	0	10	2
Tennessee .....	70	107	0	14	15	21
Texas .....	269,342	257,885	271,161	71,510	75,318	59,828
Utah .....	2,546	2,488	1,426	592	697	557
Vermont .....	18	145	43	15	1	1
Virginia .....	6,933	4,070	1,194	1,317	1,776	1,978
Washington .....	4,562	317	37	683	1,836	1,896
West Virginia .....	46	33	44	11	6	19
Wisconsin .....	934	925	647	343	318	130
Wyoming .....	40	32	21	7	15	8
<b>Total .....</b>	<b>693,682</b>	<b>776,086</b>	<b>727,962</b>	<b>173,709</b>	<b>193,795</b>	<b>161,778</b>

See footnotes at end of table.

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

State	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	584,432	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	346	1,395
Kentucky .....	12	269	20	23	19	23
Louisiana .....	10,820	254,922	11,705	13,510	16,382	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	36,772	681	1,209	1,562	3,660
New Mexico .....	1,463	22,486	1,408	1,440	1,903	2,183
New York .....	10,543	208,731	10,640	11,686	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	2,785,608	175,608	189,296	212,840	273,670

See footnotes at end of table.

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

State	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama .....	296	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	41,667	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 .....	20,629	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

See footnotes at end of table.

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

State	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991
Alabama .....	204	267	4,081	312	309	323
Alaska .....	2,258	2,498	31,330	2,489	2,456	2,358
Arizona .....	1,719	1,451	23,282	355	1,929	3,968
Arkansas .....	2,080	311	27,903	309	307	1,602
California .....	39,134	39,387	449,014	36,246	39,364	56,802
Colorado .....	309	328	5,715	704	641	631
Connecticut .....	28	34	4,702	40	48	650
Delaware .....	437	456	14,354	982	674	892
District of Columbia .....	0	0	0	0	0	0
Florida .....	14,042	12,365	201,319	13,027	14,891	17,614
Georgia .....	10	3	838	20	53	15
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	860	869	12,865	667	868	902
Indiana .....	1,030	1,119	10,043	1,851	750	646
Iowa .....	182	96	3,671	239	405	245
Kansas .....	694	735	36,122	739	2,032	2,762
Kentucky .....	14	35	227	19	14	19
Louisiana .....	13,176	14,182	254,245	12,093	15,920	22,562
Maine .....	0	0	0	0	0	0
Maryland .....	244	270	16,059	319	670	917
Massachusetts .....	54	59	39,133	265	1,450	4,394
Michigan .....	2,574	2,045	23,736	2,594	2,401	1,353
Minnesota .....	703	337	5,870	384	340	305
Mississippi .....	5,439	2,804	62,409	2,712	3,798	3,543
Missouri .....	143	107	12,709	97	285	370
Montana .....	4	6	268	29	29	7
Nebraska .....	76	97	3,689	368	538	479
Nevada .....	1,093	744	21,738	887	1,351	2,164
New Hampshire .....	0	0	0	0	0	0
New Jersey .....	487	466	61,874	1,141	2,498	2,457
New Mexico .....	1,306	1,597	28,100	1,826	2,127	2,648
New York .....	13,500	9,843	211,640	12,968	14,580	17,398
North Carolina .....	233	269	3,020	262	227	119
North Dakota .....	1	0	1	0	0	0
Ohio .....	259	312	3,237	137	346	299
Oklahoma .....	9,258	9,870	167,214	8,716	10,665	14,746
Oregon .....	2,005	2,124	10,856	1,919	1,651	2,174
Pennsylvania .....	126	94	2,037	193	148	83
Rhode Island .....	0	0	1,638	7	86	64
South Carolina .....	3	15	9,823	7	10	11
South Dakota .....	0	2	177	1	0	6
Tennessee .....	5	17	211	26	64	0
Texas .....	54,754	62,015	1,005,051	63,406	73,000	95,982
Utah .....	573	626	5,190	617	604	625
Vermont .....	1	2	1,091	13	10	99
Virginia .....	1,111	1,118	9,471	741	56	887
Washington .....	7	11	139	23	17	43
West Virginia .....	5	16	140	21	8	7
Wisconsin .....	116	113	2,706	154	206	197
Wyoming .....	5	9	76	5	5	10
<b>Total .....</b>	<b>170,293</b>	<b>169,125</b>	<b>2,789,014</b>	<b>169,931</b>	<b>197,831</b>	<b>263,376</b>

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

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-759.

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

State	YTD 1993	YTD 1992	YTD 1991	April 1993	March 1993	February 1993
Alabama .....	106,554	98,907	91,104	23,259	28,360	27,204
Alaska .....	52,328	52,980	52,725	11,524	12,261	13,441
Arizona .....	38,853	43,748	41,600	7,862	10,925	9,078
Arkansas .....	82,227	86,754	82,541	17,057	21,176	20,757
California .....	643,668	651,725	695,416	122,504	150,934	178,951
Colorado .....	129,359	102,129	112,953	24,101	32,176	34,170
Connecticut .....	55,392	53,239	46,261	10,048	14,381	16,223
Delaware .....	15,724	15,374	16,008	3,633	4,363	3,818
District of Columbia .....	18,417	18,035	16,838	3,158	4,982	5,209
Florida .....	101,918	114,393	111,369	25,774	26,544	25,327
Georgia .....	144,202	138,592	128,246	27,731	37,293	39,509
Hawaii .....	933	922	925	225	230	242
Idaho .....	23,168	18,507	19,888	4,256	5,760	6,353
Illinois .....	501,150	461,715	459,357	84,401	127,615	137,682
Indiana .....	241,826	208,990	202,370	51,259	60,808	63,026
Iowa .....	111,096	97,262	101,246	19,997	27,940	29,962
Kansas .....	125,288	103,234	121,362	24,284	31,110	33,529
Kentucky .....	84,570	77,892	74,846	14,053	21,817	24,557
Louisiana .....	390,707	497,039	405,754	94,355	101,018	94,403
Maine .....	2,242	2,361	2,100	405	542	643
Maryland .....	84,052	82,591	75,987	14,152	23,582	23,903
Massachusetts .....	124,162	119,993	111,397	27,086	34,239	31,875
Michigan .....	428,990	411,069	380,807	81,171	112,635	116,861
Minnesota .....	148,469	138,807	140,485	25,220	36,597	40,237
Mississippi .....	70,447	82,713	72,177	15,646	18,772	17,177
Missouri .....	143,466	118,001	128,163	24,810	37,514	37,934
Montana .....	21,898	16,969	19,387	3,750	5,546	5,285
Nebraska .....	56,088	44,543	49,726	11,717	14,678	12,108
Nevada .....	31,671	24,848	24,361	7,269	8,525	7,342
New Hampshire .....	8,669	8,345	7,252	1,705	2,245	2,359
New Jersey .....	258,181	230,836	209,285	50,161	69,180	72,918
New Mexico .....	45,410	42,834	45,169	9,485	11,064	11,346
New York .....	428,072	435,390	374,212	86,538	116,426	112,552
North Carolina .....	81,786	75,433	68,235	16,536	21,850	21,222
North Dakota .....	14,087	12,212	12,805	2,511	3,384	3,586
Ohio .....	407,359	383,656	364,356	73,216	108,913	114,860
Oklahoma .....	170,999	162,305	165,170	36,867	43,692	42,910
Oregon .....	55,459	50,624	45,163	9,787	14,168	14,890
Pennsylvania .....	320,886	310,011	287,962	58,201	87,909	89,507
Rhode Island .....	29,072	28,609	20,568	6,201	7,749	7,754
South Carolina .....	55,302	53,332	46,983	11,999	15,177	13,775
South Dakota .....	14,408	11,481	12,580	2,513	3,492	3,747
Tennessee .....	103,319	97,790	93,840	19,669	27,369	26,960
Texas .....	1,042,323	1,062,937	1,003,580	249,793	264,207	245,392
Utah .....	61,430	52,740	54,313	10,533	14,570	17,051
Vermont .....	3,612	3,678	3,058	658	976	1,003
Virginia .....	105,609	87,066	73,301	19,124	27,348	30,371
Washington .....	88,702	68,561	72,727	17,127	22,838	23,257
West Virginia .....	48,344	45,721	43,087	9,522	13,395	R 13,130
Wisconsin .....	171,041	153,915	156,203	31,996	42,997	44,879
Wyoming .....	25,752	24,815	21,920	5,774	5,640	6,655
Total .....	7,518,686	7,285,623	6,967,166	1,510,626	1,936,911	R 1,976,926

See footnotes at end of tables.

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

State	January 1993	Total 1992	December 1992	November 1992	October 1992	September 1992
Alabama .....	27,731	246,851	25,506	20,489	17,234	16,377
Alaska .....	15,102	145,499	14,676	13,459	13,319	9,046
Arizona .....	10,988	R 109,925	11,229	R 5,938	R 7,209	R 8,792
Arkansas .....	23,238	R 211,434	20,621	15,183	13,092	14,109
California .....	191,279	1,804,199	190,413	148,350	129,368	137,715
Colorado .....	38,913	R 213,576	R 31,958	R 18,075	R 11,341	R 9,294
Connecticut .....	14,740	110,231	13,172	9,571	6,691	4,959
Delaware .....	3,910	39,688	4,015	3,511	2,926	2,634
District of Columbia .....	5,068	32,816	4,151	2,426	1,400	1,104
Florida .....	24,273	341,322	23,663	23,631	22,385	30,910
Georgia .....	39,668	335,209	40,061	31,643	22,757	19,581
Hawaii .....	236	2,696	234	221	210	221
Idaho .....	6,799	45,563	6,116	4,415	3,245	2,540
Illinois .....	151,452	982,553	140,903	104,611	66,066	42,043
Indiana .....	66,734	475,626	61,659	46,816	33,296	24,357
Iowa .....	33,197	225,237	30,450	24,207	15,049	11,336
Kansas .....	36,366	267,885	34,025	23,803	19,598	16,348
Kentucky .....	24,142	170,965	23,011	17,822	11,601	7,704
Louisiana .....	100,931	R 1,326,052	98,036	94,559	102,707	99,177
Maine .....	652	5,098	557	461	307	248
Maryland .....	22,416	178,822	20,724	15,531	11,112	8,516
Massachusetts .....	30,962	268,231	25,027	23,086	16,519	14,676
Michigan .....	118,323	865,384	103,784	81,062	56,427	37,900
Minnesota .....	46,416	292,808	39,434	31,555	18,719	12,342
Mississippi .....	18,852	214,140	17,959	14,657	13,158	16,651
Missouri .....	43,208	238,423	35,508	21,558	11,802	8,987
Montana .....	7,317	40,708	6,465	4,457	3,082	2,323
Nebraska .....	17,585	104,157	14,569	11,328	6,969	5,123
Nevada .....	8,536	65,547	6,440	3,631	4,324	4,716
New Hampshire .....	2,361	16,714	1,752	1,342	864	1,156
New Jersey .....	65,922	521,435	58,729	45,389	34,754	28,382
New Mexico .....	13,515	98,293	12,240	7,124	6,059	5,881
New York .....	112,556	953,133	103,053	71,743	56,185	52,405
North Carolina .....	22,178	175,678	19,800	14,535	11,928	10,239
North Dakota .....	4,606	25,363	3,592	2,530	1,518	1,057
Ohio .....	110,369	798,155	102,573	75,859	54,167	33,878
Oklahoma .....	47,531	429,390	42,645	30,610	26,599	33,086
Oregon .....	16,613	R 132,170	14,298	R 11,601	R 11,035	R 10,518
Pennsylvania .....	85,268	645,615	76,754	58,931	43,481	29,663
Rhode Island .....	7,369	R 66,734	6,506	5,239	4,265	3,913
South Carolina .....	14,352	135,144	12,838	11,487	9,413	9,129
South Dakota .....	4,657	24,675	3,823	2,823	1,496	921
Tennessee .....	29,321	221,687	25,253	19,115	14,592	12,657
Texas .....	282,930	3,281,519	292,839	262,601	254,346	279,797
Utah .....	19,277	114,217	16,730	9,946	6,647	5,345
Vermont .....	975	7,598	775	613	561	277
Virginia .....	28,766	201,708	23,527	16,128	11,294	10,474
Washington .....	25,479	170,211	20,898	14,676	12,102	10,030
West Virginia .....	12,297	R 99,786	R 11,217	R 8,713	R 6,989	5,163
Wisconsin .....	51,168	329,197	44,333	34,041	22,348	14,232
Wyoming .....	7,682	R 67,492	7,219	R 5,614	R 5,277	R 4,928
Total .....	2,094,223	R 17,876,560	R 1,945,760	R 1,526,712	R 1,237,834	R 1,132,861

See footnotes at end of tables.

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

State	August 1992	July 1992	June 1992	May 1992	April 1992	March 1992
Alabama .....	15,964	16,844	17,052	18,478	21,041	23,557
Alaska .....	9,178	10,865	10,352	11,624	12,382	13,090
Arizona .....	R 9,326	R 8,379	R 7,453	R 7,849	R 9,115	R 10,846
Arkansas .....	14,177	15,418	15,248	16,832	19,714	R 21,850
California .....	150,406	129,948	121,163	145,110	125,993	152,479
Colorado .....	R 8,447	R 9,290	R 10,804	12,238	R 18,719	R 23,576
Connecticut .....	4,975	5,084	5,464	7,075	10,811	13,751
Delaware .....	2,830	2,576	2,881	2,842	3,633	3,809
District of Columbia .....	1,098	1,191	1,399	2,012	3,607	4,321
Florida .....	30,814	32,028	32,209	31,290	30,471	29,865
Georgia .....	19,452	20,730	20,186	22,208	26,391	34,314
Hawaii .....	215	218	231	224	229	222
Idaho .....	2,173	2,555	2,833	3,180	3,616	4,246
Illinois .....	36,520	37,234	38,255	55,206	84,963	113,638
Indiana .....	22,318	22,669	24,901	30,620	40,567	50,794
Iowa .....	10,943	11,087	11,723	13,180	19,216	22,520
Kansas .....	17,240	18,458	16,778	18,400	22,731	22,679
Kentucky .....	7,850	7,147	8,195	9,744	13,009	19,001
Louisiana .....	100,981	111,241	104,802	117,509	125,718	R 125,958
Maine .....	235	263	273	393	541	635
Maryland .....	8,851	10,689	9,480	11,329	16,139	20,710
Massachusetts .....	14,799	17,378	16,306	20,446	29,124	29,750
Michigan .....	38,121	35,732	42,058	59,230	85,235	105,086
Minnesota .....	11,673	11,935	12,263	16,081	26,103	33,316
Mississippi .....	15,845	18,290	16,458	18,410	19,860	20,352
Missouri .....	8,961	9,660	10,558	13,388	21,651	25,975
Montana .....	1,669	1,756	1,716	2,272	3,188	3,597
Nebraska .....	5,522	5,597	4,876	5,630	8,544	10,017
Nevada .....	5,506	5,693	5,298	5,089	5,491	5,954
New Hampshire .....	754	635	722	1,145	1,811	1,942
New Jersey .....	29,318	34,589	26,952	32,486	50,657	58,248
New Mexico .....	6,243	5,723	5,213	6,978	8,581	9,212
New York .....	51,426	55,552	58,064	68,315	95,863	112,573
North Carolina .....	10,352	10,137	10,931	12,324	15,730	18,124
North Dakota .....	866	977	1,029	1,583	2,411	2,819
Ohio .....	31,644	32,583	36,589	47,207	74,048	92,577
Oklahoma .....	33,343	35,315	32,738	32,750	37,225	39,491
Oregon .....	R 9,862	R 9,150	R 7,812	R 7,289	R 8,516	R 10,088
Pennsylvania .....	27,768	28,849	30,075	40,080	59,719	77,457
Rhode Island .....	R 3,952	R 4,459	R 4,422	R 5,369	R 6,581	R 7,124
South Carolina .....	9,073	9,710	9,883	10,280	11,913	14,148
South Dakota .....	792	942	950	1,450	2,251	2,758
Tennessee .....	12,523	13,005	12,642	14,109	20,060	22,333
Texas .....	282,319	309,061	271,764	265,855	263,378	268,969
Utah .....	5,274	5,419	5,688	6,427	8,494	11,600
Vermont .....	288	436	435	534	778	930
Virginia .....	11,688	16,570	11,046	13,917	17,400	20,910
Washington .....	13,389	8,577	10,752	11,226	13,876	15,711
West Virginia .....	R 4,945	4,828	R 5,548	6,661	R 9,506	11,002
Wisconsin .....	12,793	12,402	14,921	20,211	30,993	38,633
Wyoming .....	R 4,556	R 4,850	R 5,113	R 5,118	R 5,375	R 5,900
Total .....	R 1,139,257	R 1,183,726	R 1,134,507	R 1,290,282	R 1,552,969	R 1,788,455

See footnotes at end of tables.

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

State	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991
Alabama .....	27,104	27,205	228,765	23,176	19,675	17,032
Alaska .....	13,469	14,038	141,426	13,396	12,469	10,408
Arizona .....	® 11,246	® 12,542	101,473	9,744	7,346	8,249
Arkansas .....	22,395	22,794	199,379	18,725	15,822	12,757
California .....	167,899	205,354	1,847,949	180,196	141,349	164,988
Colorado .....	® 28,247	® 31,587	228,283	29,497	19,704	11,558
Connecticut .....	14,279	14,397	101,380	11,874	8,998	6,914
Delaware .....	4,058	3,874	41,944	3,747	2,897	2,743
District of Columbia .....	5,105	5,003	30,836	3,765	2,290	1,245
Florida .....	27,430	26,627	336,895	26,421	26,712	27,644
Georgia .....	35,959	41,928	315,634	36,415	31,863	22,287
Hawaii .....	231	241	2,694	231	222	218
Idaho .....	4,770	5,874	46,467	5,363	4,332	3,084
Illinois .....	120,128	142,986	976,375	132,181	115,313	64,100
Indiana .....	55,041	62,588	452,690	56,842	46,570	30,222
Iowa .....	26,995	28,530	226,476	28,609	23,296	15,718
Kansas .....	26,710	31,115	293,035	28,191	26,795	17,417
Kentucky .....	20,296	25,585	165,028	21,934	19,097	11,477
Louisiana .....	118,545	126,818	1,258,960	101,242	100,471	103,029
Maine .....	612	572	4,789	584	442	347
Maryland .....	22,467	23,275	170,561	19,830	14,825	10,724
Massachusetts .....	31,554	29,585	250,028	23,181	17,746	15,790
Michigan .....	108,354	112,394	798,489	102,051	68,894	50,858
Minnesota .....	37,343	42,045	301,144	39,915	33,339	19,529
Mississippi .....	21,445	21,056	210,531	17,905	17,430	14,918
Missouri .....	32,947	37,428	253,765	32,032	24,144	12,049
Montana .....	4,759	5,425	41,401	5,666	4,926	2,695
Nebraska .....	12,299	13,692	113,409	13,134	11,229	6,634
Nevada .....	6,154	7,250	64,465	6,318	4,279	4,543
New Hampshire .....	2,346	2,247	14,094	1,601	1,166	822
New Jersey .....	62,068	59,863	460,521	50,967	37,798	28,206
New Mexico .....	11,706	13,336	102,206	12,387	7,614	6,069
New York .....	116,620	110,334	869,100	96,633	71,894	55,283
North Carolina .....	20,717	20,862	160,172	17,375	14,809	11,539
North Dakota .....	3,364	3,617	26,195	3,627	2,963	1,611
Ohio .....	103,810	113,221	755,118	96,913	76,832	49,867
Oklahoma .....	40,867	44,722	456,705	40,150	36,925	34,327
Oregon .....	® 14,926	® 17,095	114,557	12,863	10,497	8,650
Pennsylvania .....	85,008	87,827	601,688	72,938	56,681	40,276
Rhode Island .....	7,802	7,102	54,148	6,392	5,298	4,921
South Carolina .....	13,836	13,435	131,020	11,887	10,875	9,413
South Dakota .....	3,122	3,349	25,529	3,250	3,031	1,606
Tennessee .....	26,295	29,101	211,310	24,423	19,735	12,993
Texas .....	241,889	288,701	3,181,703	283,341	271,155	280,930
Utah .....	14,970	17,676	118,164	17,066	11,036	6,420
Vermont .....	981	989	7,069	798	561	494
Virginia .....	23,786	24,971	167,709	19,327	13,890	10,832
Washington .....	18,274	20,699	167,901	19,113	15,644	10,905
West Virginia .....	® 12,468	® 12,748	94,624	10,959	8,806	6,975
Wisconsin .....	40,641	43,647	327,124	43,185	35,715	22,224
Wyoming .....	® 6,465	® 7,075	54,348	6,170	5,344	4,230
<b>Total .....</b>	<b>® 1,879,804</b>	<b>® 2,064,395</b>	<b>17,305,276</b>	<b>1,843,531</b>	<b>1,540,346</b>	<b>1,277,771</b>

® = Revised Data.

NA = Not Available.

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

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



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

State	YTD 1993	YTD 1992	YTD 1991	April 1993	March 1993	February 1993	January 1993	Total 1992
Alabama .....	3.30	2.96	3.23	3.38	3.16	3.36	3.32	3.21
Alaska .....	.33	.33	.34	.33	.33	.33	.33	.34
Arizona .....	2.37	1.98	2.31	2.00	2.50	2.28	2.63	2.33
Arkansas .....	2.57	2.66	2.42	2.60	2.63	2.45	2.62	2.59
California .....	2.79	2.88	2.69	2.86	2.90	2.69	2.74	2.72
Colorado .....	2.71	2.75	2.93	2.78	2.57	2.67	2.80	2.86
Connecticut .....	3.57	3.75	2.78	4.32	3.31	3.27	3.70	3.73
Delaware .....	3.17	2.55	2.33	3.33	3.22	3.03	3.13	2.83
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	2.77	2.39	2.25	2.90	2.64	2.65	2.95	2.61
Georgia .....	3.52	3.12	2.73	3.44	3.28	3.48	3.79	3.28
Hawaii .....	6.19	7.64	8.18	5.69	5.46	7.01	6.49	7.72
Idaho .....	2.01	1.94	2.11	1.89	2.12	1.97	2.03	2.18
Illinois .....	3.46	3.04	2.85	3.43	3.25	3.48	3.75	3.18
Indiana .....	2.97	2.57	3.02	3.14	2.91	2.83	3.04	3.08
Iowa .....	3.03	2.48	2.40	3.55	2.94	2.81	3.02	3.20
Kansas .....	2.88	2.55	2.32	2.54	3.19	2.66	3.06	2.50
Kentucky .....	3.17	2.89	3.26	3.26	3.24	3.10	3.13	3.02
Louisiana .....	2.56	2.33	2.33	2.72	2.65	2.33	2.59	2.52
Maine .....	3.56	2.44	2.48	3.31	3.66	3.53	3.69	3.17
Maryland .....	3.05	2.59	2.57	3.80	2.90	2.89	3.02	3.20
Massachusetts .....	3.76	2.91	3.10	3.92	3.94	R 3.53	3.71	3.51
Michigan .....	2.98	2.93	2.91	2.82	2.84	2.90	3.43	3.04
Minnesota .....	2.91	2.26	2.39	2.98	2.94	2.78	2.97	2.92
Mississippi .....	2.62	2.29	2.34	2.89	2.61	2.44	2.62	2.59
Missouri .....	3.06	2.60	2.70	2.91	2.95	2.87	3.37	2.87
Montana .....	2.99	3.63	3.54	3.16	2.92	2.96	2.98	3.45
Nebraska .....	2.87	2.47	2.69	3.19	2.78	2.78	2.92	2.92
Nevada .....	2.63	2.09	2.08	3.29	2.66	2.36	2.57	2.37
New Hampshire .....	3.55	2.92	2.74	3.42	3.68	3.30	3.78	3.58
New Jersey .....	3.19	2.80	2.91	3.44	3.27	2.81	3.31	3.29
New Mexico .....	2.51	2.40	2.94	3.04	2.54	2.34	2.45	2.25
New York .....	3.11	2.86	2.77	3.64	3.15	2.75	3.06	3.01
North Carolina .....	3.03	2.56	2.82	3.24	3.01	2.83	3.09	2.88
North Dakota .....	3.07	3.21	3.32	3.24	3.01	2.97	3.11	3.28
Ohio .....	3.54	2.96	2.90	4.28	3.44	3.43	3.40	3.26
Oklahoma .....	2.42	2.11	1.76	2.26	2.44	2.41	2.50	2.22
Oregon .....	2.21	2.22	2.20	2.18	2.16	2.26	2.22	2.34
Pennsylvania .....	3.15	3.06	3.18	3.57	3.15	3.04	3.02	3.29
Rhode Island .....	3.46	3.34	3.55	4.09	3.34	3.12	3.57	3.82
South Carolina .....	3.30	2.75	3.23	3.48	3.11	3.27	3.39	3.23
South Dakota .....	3.10	2.42	2.85	3.36	3.12	2.98	3.07	3.10
Tennessee .....	2.98	2.68	2.64	3.29	3.00	2.81	2.95	2.89
Texas .....	3.21	2.92	2.62	3.09	3.09	3.16	3.40	3.09
Utah .....	3.11	5.26	4.28	3.74	3.49	2.89	2.94	4.09
Vermont .....	2.62	2.76	3.07	3.03	2.57	2.53	2.52	2.93
Virginia .....	3.20	2.33	2.69	3.36	3.10	3.18	3.24	2.91
Washington .....	2.07	1.75	1.76	1.85	2.06	2.11	2.18	1.90
West Virginia .....	3.04	2.29	4.23	3.62	2.93	2.88	3.03	3.24
Wisconsin .....	3.19	3.12	2.77	3.86	3.15	2.96	3.06	3.36
Wyoming .....	2.78	3.23	3.08	3.07	2.89	2.63	2.71	2.90
Total .....	3.07	2.75	2.92	3.24	3.06	R 2.94	3.10	3.01

See footnotes at end of table.

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

State	December 1992	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992
Alabama .....	3.43	3.44	3.91	3.67	3.65	3.16	3.28	3.01
Alaska .....	.33	.33	.33	.33	.34	.33	.33	.33
Arizona .....	2.55	2.69	2.64	2.42	2.43	2.70	2.31	1.57
Arkansas .....	2.58	2.71	2.49	2.41	2.38	2.41	2.53	2.43
California .....	2.75	2.91	2.92	2.80	2.82	2.73	2.59	2.47
Colorado .....	2.81	2.74	2.98	3.67	3.61	3.32	3.23	3.45
Connecticut .....	3.59	3.80	4.02	4.13	4.23	4.12	4.96	4.76
Delaware .....	3.53	3.93	3.74	2.74	1.78	2.72	2.90	2.59
District of Columbia .....	--	--	--	--	--	--	--	--
Florida .....	3.07	3.19	3.16	2.64	2.58	2.41	2.37	2.29
Georgia .....	3.51	3.27	3.93	3.70	3.55	3.10	3.21	2.90
Hawaii .....	7.59	7.81	8.17	7.87	8.27	8.08	7.55	7.60
Idaho .....	2.06	1.99	2.37	2.47	3.61	2.52	2.57	2.55
Illinois .....	2.53	3.47	3.60	3.36	3.19	2.91	2.89	2.72
Indiana .....	3.26	3.33	3.69	3.03	3.52	2.97	3.16	2.71
Iowa .....	3.21	3.44	3.97	3.89	3.86	4.16	4.12	3.77
Kansas .....	2.48	2.79	2.33	2.31	2.49	2.30	2.07	2.32
Kentucky .....	3.26	3.28	3.53	2.76	2.74	2.57	2.98	2.89
Louisiana .....	2.90	2.87	3.30	2.82	2.67	2.38	2.31	2.49
Maine .....	4.00	3.41	3.45	2.80	4.19	2.72	2.82	2.66
Maryland .....	3.17	3.66	3.91	4.58	4.83	5.04	4.46	3.71
Massachusetts .....	3.86	3.95	3.88	3.40	3.24	3.35	3.77	3.66
Michigan .....	3.16	3.33	3.31	3.02	2.95	2.78	2.82	2.89
Minnesota .....	3.32	3.31	3.57	3.28	3.34	3.12	3.25	3.02
Mississippi .....	2.92	3.00	3.50	2.91	2.76	2.38	2.54	2.48
Missouri .....	2.78	3.15	3.57	3.51	3.40	2.93	3.19	2.84
Montana .....	2.91	3.01	3.19	3.85	4.38	4.80	4.51	4.03
Nebraska .....	3.09	3.15	3.55	3.47	3.23	3.18	3.28	3.09
Nevada .....	2.40	2.43	2.45	2.67	2.92	2.72	2.68	2.65
New Hampshire .....	3.96	4.02	3.70	3.16	3.83	3.27	3.62	3.31
New Jersey .....	3.32	4.32	3.95	3.97	3.38	3.40	3.17	3.19
New Mexico .....	2.55	2.66	2.99	2.30	2.13	2.09	2.48	2.09
New York .....	3.34	3.47	3.75	3.37	3.15	2.92	3.11	2.91
North Carolina .....	3.22	3.32	3.38	3.26	3.04	3.13	3.13	2.85
North Dakota .....	3.06	3.00	3.16	3.38	3.79	4.16	3.55	3.36
Ohio .....	3.69	3.51	3.84	3.60	3.71	3.72	3.43	3.35
Oklahoma .....	2.38	2.52	2.44	1.84	1.79	1.82	1.88	2.97
Oregon .....	2.39	2.36	2.35	2.27	2.41	2.25	2.14	2.59
Pennsylvania .....	3.37	3.61	3.82	4.20	4.32	3.92	4.01	3.62
Rhode Island .....	3.67	4.49	4.45	4.58	4.87	4.26	4.21	3.99
South Carolina .....	3.56	3.56	3.74	3.48	3.38	3.22	3.10	2.93
South Dakota .....	3.29	3.18	2.83	3.25	4.09	3.91	3.68	3.42
Tennessee .....	3.20	3.39	3.66	3.41	3.41	2.94	3.09	3.01
Texas .....	3.48	3.48	3.57	3.01	2.92	2.76	2.85	2.89
Utah .....	3.00	3.95	4.71	9.36	7.45	7.72	7.48	8.05
Vermont .....	2.60	2.86	2.95	4.06	4.17	3.25	3.25	3.04
Virginia .....	3.32	3.83	3.70	3.26	3.63	2.87	2.69	2.80
Washington .....	2.16	1.98	2.00	1.99	1.93	1.96	1.87	1.84
West Virginia .....	3.36	4.01	4.59	6.20	5.74	7.91	4.36	4.05
Wisconsin .....	3.17	3.48	3.97	4.47	4.94	4.76	3.84	3.45
Wyoming .....	2.69	2.55	2.66	3.01	3.32	3.36	3.63	3.43
Total .....	3.17	3.33	3.49	3.24	3.18	3.01	3.01	2.90

See footnotes at end of table.

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

State	April 1992	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991
Alabama .....	2.80	2.68	3.06	3.16	3.11	3.37	2.86	3.05
Alaska .....	.33	.34	.36	.36	.32	.28	.33	.33
Arizona .....	1.98	2.12	2.08	2.34	2.45	2.52	2.29	2.39
Arkansas .....	2.38	2.62	2.61	2.87	2.45	2.37	2.42	2.38
California .....	2.88	2.37	2.56	2.87	2.80	3.25	2.78	2.80
Colorado .....	2.75	2.67	2.60	2.67	2.85	2.66	2.69	2.90
Connecticut .....	3.75	3.18	3.37	3.39	3.50	3.40	3.27	3.40
Delaware .....	2.55	2.62	1.81	3.01	2.54	2.83	3.08	2.62
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	2.39	2.34	2.31	2.56	2.51	2.68	2.66	2.59
Georgia .....	2.57	2.61	3.79	3.27	3.38	3.36	3.38	3.11
Hawaii .....	7.64	7.40	7.22	7.53	8.74	8.93	8.64	9.12
Idaho .....	1.94	2.28	2.17	1.96	2.14	2.07	2.04	2.09
Illinois .....	2.97	2.71	2.99	3.52	2.91	3.36	2.99	2.85
Indiana .....	2.57	2.74	2.79	3.07	3.05	3.32	2.99	2.90
Iowa .....	2.48	2.72	2.58	2.64	2.73	2.86	2.76	2.94
Kansas .....	2.28	2.09	2.74	2.73	2.62	3.10	2.76	2.28
Kentucky .....	2.89	2.85	2.89	2.95	2.83	3.00	2.83	2.64
Louisiana .....	2.33	2.09	1.97	2.36	2.57	2.59	2.48	2.52
Maine .....	2.44	2.59	3.39	3.45	3.00	3.60	2.98	2.65
Maryland .....	2.88	2.45	2.41	2.74	3.05	3.04	3.09	3.47
Massachusetts .....	2.91	2.97	3.47	3.67	3.37	3.80	3.43	3.24
Michigan .....	2.93	3.19	3.11	3.21	3.08	3.02	3.13	3.15
Minnesota .....	2.26	2.47	2.30	2.68	2.63	2.95	2.54	2.70
Mississippi .....	2.29	2.12	2.08	2.42	2.55	2.70	2.55	2.60
Missouri .....	2.60	2.59	2.45	2.88	2.92	3.04	2.98	3.11
Montana .....	3.63	3.58	3.57	3.57	3.69	3.52	3.50	3.57
Nebraska .....	2.47	2.46	2.37	2.71	2.75	2.88	2.62	2.85
Nevada .....	2.09	2.20	2.13	2.20	2.33	2.26	2.19	2.11
New Hampshire .....	2.92	2.93	4.00	3.88	3.40	4.01	3.31	2.88
New Jersey .....	2.66	2.58	2.81	3.15	3.14	3.05	3.22	3.41
New Mexico .....	2.40	1.82	1.92	2.05	2.49	2.27	2.41	2.70
New York .....	2.67	2.57	2.49	2.88	2.92	3.14	2.90	3.02
North Carolina .....	2.56	2.18	2.37	2.77	2.69	2.91	2.61	2.61
North Dakota .....	3.21	3.20	3.34	3.44	3.49	3.42	3.33	3.47
Ohio .....	2.96	2.87	2.93	2.96	3.05	3.12	3.05	2.59
Oklahoma .....	2.11	2.06	2.07	2.17	2.04	2.15	2.37	2.29
Oregon .....	2.22	2.35	2.27	2.40	2.39	2.43	2.45	2.29
Pennsylvania .....	3.06	2.77	2.72	2.86	3.27	3.03	3.14	3.56
Rhode Island .....	3.38	3.06	3.40	3.52	3.68	3.60	3.88	3.95
South Carolina .....	2.75	2.70	2.99	3.24	2.95	3.34	3.05	3.55
South Dakota .....	2.42	2.98	2.86	2.95	3.11	3.15	2.83	3.13
Tennessee .....	2.68	2.36	2.26	2.47	2.73	2.72	3.02	2.96
Texas .....	2.92	2.87	2.89	2.58	2.88	3.10	3.00	2.91
Utah .....	5.26	4.17	3.54	3.26	3.89	3.04	3.91	4.13
Vermont .....	2.76	2.65	2.76	2.76	2.87	2.78	2.98	2.87
Virginia .....	2.33	2.14	2.34	2.93	2.76	3.04	2.90	2.83
Washington .....	1.63	1.80	1.77	1.76	1.91	2.10	2.00	1.97
West Virginia .....	2.29	1.93	2.80	3.14	3.58	4.18	3.15	3.45
Wisconsin .....	3.12	3.03	2.88	3.02	3.17	3.15	3.15	3.26
Wyoming .....	3.23	2.83	2.95	2.95	3.04	2.83	2.65	2.76
Total .....	2.75	2.62	2.71	2.90	2.90	3.05	2.92	2.92

NA = Not Available.

R = Revised Data.

— = Not Applicable.

Notes: Geographic coverage is the 50 States and the District of Columbia. Prices in this table represent the average price of natural gas by State at the point where the gas transferred from a pipeline to a local distribution company within the State. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857.

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

State	YTD 1993	YTD 1992	YTD 1991	April 1993	March 1993	February 1993	January 1993	Total 1992
Alabama .....	6.42	6.19	6.69	6.59	6.15	6.49	6.53	6.65
Alaska .....	3.86	3.70	4.20	3.93	3.90	3.82	3.83	3.79
Arizona .....	6.61	6.67	6.43	7.31	6.68	6.50	6.36	R 7.23
Arkansas .....	4.97	4.79	4.60	5.12	5.04	5.02	4.77	R 5.08
California .....	6.01	5.91	6.21	5.71	5.87	6.02	6.20	5.95
Colorado .....	4.20	4.30	4.33	4.36	4.21	4.17	4.13	4.52
Connecticut .....	9.04	9.10	8.36	9.59	9.03	8.79	R 8.99	8.99
Delaware .....	6.09	5.67	5.60	6.25	6.01	6.05	6.09	6.14
District of Columbia .....	8.32	6.96	7.09	8.27	8.22	8.33	8.45	7.37
Florida .....	9.33	8.11	8.29	9.83	9.27	9.24	9.07	9.11
Georgia .....	6.32	6.26	6.50	6.49	6.17	6.18	6.51	6.40
Hawaii .....	17.25	17.66	23.70	17.70	17.20	16.50	17.62	18.03
Idaho .....	5.02	5.13	4.99	5.30	5.02	4.98	4.93	5.24
Illinois .....	5.10	4.61	4.92	5.63	4.88	5.02	5.08	5.09
Indiana .....	5.50	5.16	5.52	5.66	5.36	5.43	5.58	5.42
Iowa .....	5.22	4.54	4.44	5.92	5.27	4.89	5.11	5.22
Kansas .....	4.44	4.50	4.12	4.58	4.45	4.40	4.37	4.70
Kentucky .....	4.95	4.59	4.69	5.28	4.83	4.72	5.13	4.99
Louisiana .....	5.24	4.77	5.24	5.67	5.30	4.71	5.44	5.56
Maine .....	6.99	6.89	6.67	7.51	7.11	6.89	6.75	6.93
Maryland .....	6.71	5.72	5.85	7.02	6.43	6.66	6.88	6.38
Massachusetts .....	8.35	8.07	8.24	8.54	8.22	8.30	8.27	7.85
Michigan .....	4.47	4.67	4.88	4.67	4.46	4.42	4.43	4.88
Minnesota .....	5.09	4.32	4.27	5.35	5.03	4.95	5.13	4.82
Mississippi .....	4.56	4.35	5.14	4.66	4.36	4.44	4.80	4.70
Missouri .....	4.71	4.61	4.81	4.91	4.62	4.67	4.71	5.03
Montana .....	4.88	4.54	4.31	4.85	4.88	4.73	4.55	4.77
Nebraska .....	4.63	4.36	4.45	4.77	4.51	4.55	4.71	R 4.78
Nevada .....	5.13	5.25	5.28	5.54	5.23	5.06	4.96	5.59
New Hampshire .....	7.34	6.96	7.04	5.91	7.66	7.48	7.86	7.59
New Jersey .....	6.48	6.54	6.37	6.93	6.33	6.34	6.49	6.92
New Mexico .....	4.84	4.23	5.03	5.59	4.90	4.80	4.50	4.74
New York .....	7.49	6.96	6.92	7.81	7.30	7.34	7.64	7.60
North Carolina .....	6.45	5.94	5.72	6.33	6.08	6.58	6.76	6.48
North Dakota .....	4.83	4.68	4.51	5.08	4.84	4.82	4.71	5.00
Ohio .....	5.38	4.79	5.14	5.49	5.31	5.43	5.33	5.18
Oklahoma .....	4.59	4.61	4.39	4.76	4.52	4.58	4.57	4.96
Oregon .....	5.97	5.94	5.95	6.14	5.99	5.95	5.90	6.13
Pennsylvania .....	6.36	6.35	6.46	6.69	6.35	6.35	6.18	6.63
Rhode Island .....	7.70	7.36	7.24	7.85	7.67	7.64	7.69	7.68
South Carolina .....	7.15	7.04	6.84	6.56	6.79	7.31	7.73	7.12
South Dakota .....	5.16	4.71	4.67	5.38	5.15	5.06	5.14	5.11
Tennessee .....	5.50	5.17	4.92	5.47	5.28	5.83	5.45	5.42
Texas .....	5.42	5.28	5.35	5.76	5.32	5.50	5.26	5.78
Utah .....	5.09	5.48	5.49	4.89	5.15	5.08	5.14	5.46
Vermont .....	5.88	6.49	5.94	6.08	5.94	5.96	5.59	6.70
Virginia .....	7.12	6.08	6.45	7.49	6.80	7.18	7.16	6.71
Washington .....	4.76	4.71	4.36	5.03	4.80	4.76	4.59	5.00
West Virginia .....	6.00	6.07	6.28	6.18	5.97	3.93	6.00	6.51
Wisconsin .....	5.97	5.49	5.61	6.15	5.96	5.96	5.91	5.75
Wyoming .....	4.43	4.52	4.55	4.54	4.44	4.43	4.36	R 4.68
Total .....	5.74	5.53	5.61	5.98	5.67	5.71	R 5.71	5.86

See footnotes at end of table.

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

State	December 1992	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992
Alabama .....	6.37	7.30	8.30	8.87	8.99	8.88	7.94	6.93
Alaska .....	3.70	3.74	3.79	4.02	4.54	4.20	4.03	3.83
Arizona .....	6.54	R 7.58	R 9.18	9.63	R 9.86	9.53	R 9.01	8.52
Arkansas .....	4.72	5.29	6.38	6.84	6.81	6.45	6.15	5.52
California .....	5.78	5.58	6.33	6.27	6.19	6.25	6.26	5.97
Colorado .....	4.13	4.46	5.32	5.84	6.01	5.73	5.20	4.92
Connecticut .....	7.71	7.87	8.44	10.70	11.25	10.71	10.58	9.87
Delaware .....	6.22	6.44	7.20	8.05	8.08	7.94	7.39	6.51
District of Columbia .....	8.05	8.32	8.85	8.90	7.14	6.56	7.00	7.71
Florida .....	8.74	10.34	11.51	11.63	11.41	11.14	10.83	9.93
Georgia .....	6.11	6.33	7.64	3.87	8.38	8.30	7.88	6.96
Hawaii .....	18.05	18.42	18.60	18.46	18.52	18.19	17.71	18.04
Idaho .....	4.90	5.25	5.63	6.01	6.63	6.24	6.19	5.57
Illinois .....	5.14	5.42	5.80	6.37	6.87	6.91	6.45	5.52
Indiana .....	5.56	5.18	5.46	6.87	6.99	6.89	6.44	5.95
Iowa .....	5.29	5.62	6.90	7.66	7.88	7.56	6.71	5.67
Kansas .....	4.45	4.73	5.34	5.83	5.94	5.97	5.42	5.13
Kentucky .....	5.04	5.00	6.34	6.96	6.42	6.24	5.79	4.98
Louisiana .....	5.76	6.63	7.76	7.26	7.35	6.97	6.71	6.22
Maine .....	7.11	6.88	6.76	7.11	7.63	7.49	6.75	6.77
Maryland .....	6.94	6.76	7.37	8.73	8.45	8.11	7.52	6.21
Massachusetts .....	8.36	8.53	6.87	7.63	7.72	7.54	7.04	6.13
Michigan .....	4.57	4.81	5.21	6.24	6.49	6.38	5.82	5.10
Minnesota .....	5.18	5.41	6.02	5.91	5.96	5.54	5.49	4.84
Mississippi .....	4.95	5.51	5.84	5.28	5.37	5.13	4.99	5.11
Missouri .....	4.80	5.33	6.23	6.91	6.97	6.75	6.23	5.32
Montana .....	4.57	4.73	5.10	5.41	5.97	5.74	5.53	5.02
Nebraska .....	4.87	5.12	5.73	6.12	6.20	5.86	5.44	4.88
Nevada .....	5.03	5.68	6.76	7.06	7.37	6.89	6.81	6.41
New Hampshire .....	8.04	9.15	8.13	9.02	9.21	9.14	8.63	7.87
New Jersey .....	6.78	6.97	7.21	8.48	8.75	8.66	8.39	7.44
New Mexico .....	4.59	5.18	6.46	6.83	6.90	6.65	6.06	5.36
New York .....	7.72	8.74	8.68	9.99	10.35	9.77	8.76	7.45
North Carolina .....	6.56	6.96	7.52	9.78	9.94	9.37	7.92	6.60
North Dakota .....	4.85	4.98	5.64	6.26	6.75	6.33	6.04	5.21
Ohio .....	5.35	5.49	5.73	6.48	6.94	6.24	5.89	5.24
Oklahoma .....	4.58	4.84	6.17	6.74	6.87	6.62	6.32	5.90
Oregon .....	5.91	6.15	6.65	7.25	7.62	7.30	6.94	6.47
Pennsylvania .....	6.22	6.41	6.92	8.40	9.04	9.00	8.20	7.25
Rhode Island .....	7.82	7.86	8.28	9.01	9.53	8.75	8.45	7.78
South Carolina .....	7.02	7.56	7.33	8.64	8.81	8.56	7.84	6.83
South Dakota .....	5.26	5.33	6.05	6.32	6.62	6.27	6.00	4.61
Tennessee .....	5.33	5.92	6.27	7.01	7.12	6.80	6.37	5.71
Texas .....	5.26	6.00	7.19	7.35	7.48	7.28	7.02	6.85
Utah .....	5.23	5.17	5.37	5.89	5.98	5.88	5.82	5.50
Vermont .....	6.36	6.73	7.14	8.02	8.42	8.22	7.78	7.05
Virginia .....	7.17	7.12	8.01	9.93	9.25	9.06	7.92	6.68
Washington .....	4.60	4.94	5.57	6.34	7.04	7.17	6.24	5.46
West Virginia .....	7.93	6.38	6.76	8.17	8.77	8.68	7.54	6.66
Wisconsin .....	5.92	6.21	6.62	6.83	6.84	6.44	6.34	5.62
Wyoming .....	4.38	4.61	5.05	5.53	5.92	5.65	5.24	4.92
Total .....	5.71	5.99	R 6.20	7.11	7.40	7.23	6.82	6.14

See footnotes at end of table.

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

State	April 1992	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991
Alabama .....	6.19	6.64	5.96	6.14	7.05	6.34	6.71	8.06
Alaska .....	3.75	3.69	3.68	3.69	4.18	3.70	3.75	4.36
Arizona .....	<sup>R</sup> 7.42	<sup>R</sup> 6.85	6.47	6.39	6.99	6.50	7.34	9.22
Arkansas .....	4.96	<sup>R</sup> 5.04	4.59	4.57	4.98	4.79	4.88	6.21
California .....	5.50	5.74	6.01	6.13	6.27	6.21	5.92	6.46
Colorado .....	4.48	4.34	4.26	4.21	4.59	4.35	4.62	5.43
Connecticut .....	9.08	8.92	9.21	9.17	8.74	8.54	8.66	8.97
Delaware .....	5.98	5.80	5.52	5.50	5.86	5.49	5.99	6.86
District of Columbia .....	6.86	7.01	6.85	7.09	7.07	6.93	7.17	7.95
Florida .....	8.77	8.59	7.64	7.89	8.98	8.10	9.00	10.72
Georgia .....	6.29	6.25	6.51	6.08	6.70	6.21	5.98	7.65
Hawaii .....	17.07	17.48	17.92	18.12	22.93	22.63	23.11	22.73
Idaho .....	5.43	5.31	5.06	4.96	5.19	4.95	5.28	5.88
Illinois .....	4.68	4.33	4.76	4.66	4.95	4.51	4.48	4.90
Indiana .....	5.32	4.78	5.42	5.12	5.46	5.04	4.67	5.17
Iowa .....	4.68	4.44	4.31	4.73	4.81	4.81	4.77	5.49
Kansas .....	4.61	4.58	4.55	4.34	4.38	4.19	4.38	5.24
Kentucky .....	4.69	4.54	4.46	4.67	4.87	4.67	4.67	4.88
Louisiana .....	4.82	4.92	4.47	4.93	5.77	5.60	5.86	7.34
Maine .....	7.07	6.89	6.78	6.86	6.86	7.01	6.95	6.91
Maryland .....	5.36	5.62	5.85	5.87	6.16	5.94	5.93	6.54
Massachusetts .....	8.32	8.02	7.96	8.04	8.11	8.47	8.77	7.01
Michigan .....	4.73	4.67	4.66	4.64	5.07	4.69	4.87	5.41
Minnesota .....	4.33	4.16	4.14	4.57	4.52	4.70	4.71	4.97
Mississippi .....	4.35	4.27	4.32	4.44	5.21	4.83	4.99	5.35
Missouri .....	4.60	4.59	4.60	4.64	5.14	4.74	4.85	6.16
Montana .....	4.69	4.62	4.49	4.44	4.52	4.40	4.41	4.97
Nebraska .....	4.38	<sup>R</sup> 4.23	4.25	4.54	4.84	4.63	4.68	5.30
Nevada .....	5.68	5.29	5.18	5.10	5.61	5.19	5.77	6.95
New Hampshire .....	6.98	7.02	6.91	6.94	7.14	7.16	7.38	7.15
New Jersey .....	6.69	6.02	6.73	6.71	6.73	6.11	6.02	7.65
New Mexico .....	4.51	4.28	4.18	4.11	5.40	4.37	5.72	6.93
New York .....	6.84	6.94	6.88	7.15	7.35	7.14	7.44	8.03
North Carolina .....	5.48	5.96	5.86	6.27	6.24	6.57	6.06	7.02
North Dakota .....	4.78	4.69	4.62	4.67	4.82	4.75	4.88	5.59
Ohio .....	4.81	4.78	4.64	4.93	5.28	5.01	5.06	5.28
Oklahoma .....	4.98	4.80	4.45	4.44	4.72	4.54	4.52	6.02
Oregon .....	6.20	6.02	5.91	5.81	6.13	5.93	6.17	7.12
Pennsylvania .....	6.60	6.34	6.39	6.18	6.76	6.30	6.57	7.10
Rhode Island .....	7.46	7.36	7.33	7.33	7.63	7.47	7.76	8.26
South Carolina .....	6.41	7.61	7.04	7.04	6.98	6.88	6.58	7.36
South Dakota .....	4.75	4.57	4.56	4.91	4.94	5.00	4.92	5.45
Tennessee .....	5.18	5.46	5.21	4.96	5.19	5.11	5.13	5.88
Texas .....	6.03	5.56	5.05	5.05	5.71	5.24	5.43	6.67
Utah .....	5.52	5.66	5.45	5.40	5.44	4.85	5.35	5.69
Vermont .....	6.68	6.59	6.54	6.22	6.23	6.31	6.49	6.73
Virginia .....	5.68	5.74	6.31	6.34	6.80	6.49	6.45	7.73
Washington .....	5.00	4.81	4.67	4.52	4.68	4.49	4.68	5.65
West Virginia .....	6.18	6.12	6.00	6.01	6.50	5.97	6.27	6.95
Wisconsin .....	5.39	5.41	5.38	5.70	5.61	5.71	5.68	5.39
Wyoming .....	4.61	4.52	4.48	4.49	4.74	4.49	4.75	5.20
Total .....	5.61	5.48	5.53	5.53	5.82	5.51	5.51	6.20

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Data for 1991 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857.

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

State	YTD 1993	YTD 1992	YTD 1991	April 1993	March 1993	February 1993	January 1993	Total 1992
Alabama .....	5.83	5.44	5.89	5.83	5.69	5.89	5.92	5.60
Alaska .....	2.86	2.68	3.08	2.83	2.79	2.92	2.89	2.64
Arizona .....	5.07	5.20	4.99	5.03	5.10	5.05	5.08	5.17
Arkansas .....	4.29	4.34	4.26	4.35	4.32	4.33	4.20	R 4.37
California .....	6.02	5.99	6.07	5.50	6.19	5.43	6.93	5.14
Colorado .....	3.79	3.89	3.96	3.82	3.82	3.81	3.75	3.94
Connecticut .....	7.15	7.55	6.81	7.36	7.35	7.22	6.72	7.23
Delaware .....	5.14	4.77	4.83	5.19	5.11	5.12	5.17	4.92
District of Columbia .....	5.95	5.18	5.40	5.72	6.08	5.99	5.95	5.20
Florida .....	5.73	4.72	5.01	5.87	5.94	5.90	5.20	4.84
Georgia .....	5.64	5.63	5.87	5.80	5.23	5.79	5.92	5.47
Hawaii .....	12.88	13.10	14.28	13.18	12.79	12.40	13.17	13.34
Idaho .....	4.35	4.33	4.30	4.60	4.36	4.26	4.33	4.38
Illinois .....	4.88	4.34	4.59	5.26	4.65	4.83	4.91	4.67
Indiana .....	4.80	4.52	4.80	4.83	4.62	4.81	4.95	4.56
Iowa .....	4.52	3.85	3.87	5.03	4.64	4.18	4.49	4.23
Kansas .....	4.10	3.95	3.39	4.12	4.12	4.07	4.09	3.53
Kentucky .....	4.66	4.30	4.45	4.62	4.60	4.59	4.81	4.44
Louisiana .....	4.78	4.43	4.79	5.05	4.46	4.55	5.11	R 4.78
Maine .....	6.54	6.51	6.05	6.77	6.77	6.45	6.30	6.26
Maryland .....	5.72	4.92	5.14	5.88	5.57	5.77	5.85	5.18
Massachusetts .....	7.24	6.81	6.79	7.08	7.24	7.39	7.22	6.07
Michigan .....	4.30	4.49	4.63	4.35	4.27	4.27	4.32	4.57
Minnesota .....	4.50	3.72	3.75	4.70	4.43	4.32	4.60	4.13
Mississippi .....	4.07	3.81	4.48	4.14	3.97	3.93	4.25	3.92
Missouri .....	4.53	4.30	4.48	4.48	4.48	4.54	4.59	4.42
Montana .....	4.62	4.43	4.27	4.65	4.61	4.68	4.56	4.56
Nebraska .....	4.24	3.78	4.07	4.24	4.16	4.20	4.33	3.93
Nevada .....	4.29	4.29	4.33	4.30	4.30	4.31	4.28	4.32
New Hampshire .....	6.77	6.44	6.47	5.61	7.14	6.92	6.99	6.71
New Jersey .....	5.44	5.56	5.44	5.25	5.41	5.42	5.64	5.55
New Mexico .....	4.05	3.56	4.18	4.38	4.07	4.03	3.89	3.56
New York .....	5.95	5.45	5.63	6.27	5.74	5.79	6.12	5.65
North Carolina .....	5.44	4.59	4.56	5.15	5.31	5.51	5.66	4.83
North Dakota .....	4.59	4.32	4.19	4.75	4.61	4.54	4.55	4.52
Ohio .....	5.07	4.44	4.81	5.13	4.97	5.16	5.03	4.66
Oklahoma .....	4.52	4.25	3.95	4.51	4.48	4.53	4.55	4.28
Oregon .....	4.77	4.66	4.75	4.77	4.75	4.79	4.78	R 4.72
Pennsylvania .....	5.80	5.87	5.97	6.07	5.81	5.82	5.60	5.90
Rhode Island .....	7.02	6.99	6.87	7.01	6.94	6.94	7.21	6.58
South Carolina .....	6.00	5.62	5.85	5.67	5.85	6.12	6.26	5.48
South Dakota .....	4.38	3.90	3.98	4.52	4.34	4.24	4.44	4.18
Tennessee .....	5.15	4.94	4.74	4.95	5.03	5.13	5.41	5.00
Texas .....	4.52	4.31	4.10	4.11	4.34	4.75	4.73	4.23
Utah .....	4.19	4.57	4.51	3.96	4.23	4.19	4.26	4.46
Vermont .....	5.26	5.62	5.23	5.32	5.36	5.35	5.05	5.67
Virginia .....	5.54	4.73	5.14	5.62	5.27	5.61	5.69	4.86
Washington .....	4.25	4.18	3.97	3.95	4.33	4.36	4.28	4.20
West Virginia .....	5.60	5.77	5.94	5.84	5.56	5.55	5.55	5.96
Wisconsin .....	4.78	4.36	4.72	4.93	4.74	4.73	4.77	4.51
Wyoming .....	4.14	4.19	4.28	4.15	4.15	4.16	4.12	R 4.21
Total .....	5.10	4.87	4.92	5.11	5.06	5.08	5.17	4.87

See footnotes at end of table

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

State	December 1992	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992
Alabama .....	5.86	6.04	6.13	6.06	6.08	5.97	5.64	5.54
Alaska .....	2.68	2.67	2.59	2.50	2.63	2.48	2.54	2.61
Arizona .....	5.12	5.25	5.29	4.86	5.27	5.08	5.36	5.73
Arkansas .....	4.33	4.47	4.73	4.55	4.62	4.36	4.29	4.25
California .....	5.72	5.44	4.53	4.20	4.40	4.39	3.91	3.77
Colorado .....	3.78	3.85	4.13	4.26	4.32	4.26	4.17	4.10
Connecticut .....	6.91	6.84	6.93	6.47	6.32	6.39	7.57	7.23
Delaware .....	5.16	5.05	5.05	5.14	5.12	5.14	5.12	4.99
District of Columbia .....	5.77	5.72	5.10	4.84	4.62	4.70	4.74	5.02
Florida .....	5.21	5.20	5.15	4.99	4.81	4.81	4.83	4.31
Georgia .....	5.57	5.98	5.93	2.74	5.48	5.46	5.48	5.29
Hawaii .....	13.57	13.71	13.83	13.67	13.44	13.24	12.95	13.34
Idaho .....	4.20	4.48	4.51	4.54	4.58	4.63	4.62	4.59
Illinois .....	4.91	4.96	4.92	5.31	5.34	5.52	5.98	4.83
Indiana .....	4.87	4.36	4.23	4.97	4.66	4.81	4.77	4.69
Iowa .....	4.55	4.51	5.28	4.99	4.96	4.54	4.55	4.20
Kansas .....	3.98	3.69	3.09	2.70	2.78	2.89	2.86	3.16
Kentucky .....	4.77	4.76	4.51	4.60	4.74	4.49	4.46	4.19
Louisiana .....	5.46	5.63	5.66	4.95	5.15	4.72	4.84	4.51
Maine .....	6.53	6.21	5.44	5.62	6.02	5.55	5.53	5.59
Maryland .....	5.84	5.68	5.52	5.49	5.32	5.26	4.97	4.75
Massachusetts .....	6.95	6.82	4.45	4.31	4.00	3.89	4.94	4.78
Michigan .....	4.42	4.56	4.82	5.32	5.39	5.33	5.03	4.63
Minnesota .....	4.99	4.60	4.87	4.38	4.31	3.95	4.19	3.98
Mississippi .....	4.41	4.37	4.44	3.82	3.68	3.53	3.82	3.81
Missouri .....	4.82	4.81	4.55	4.52	4.59	4.95	4.32	4.22
Montana .....	4.48	4.55	4.68	4.86	5.08	5.03	4.96	4.68
Nebraska .....	4.28	4.24	4.18	3.90	3.75	3.67	3.95	3.72
Nevada .....	4.26	4.31	4.37	4.42	4.45	4.37	4.41	4.40
New Hampshire .....	7.15	7.40	6.73	6.92	6.82	7.21	6.48	7.00
New Jersey .....	5.78	5.77	5.48	5.34	5.27	5.02	5.36	5.39
New Mexico .....	3.90	3.54	3.40	3.28	3.19	3.50	4.07	3.62
New York .....	6.04	6.38	5.61	5.52	5.78	5.71	6.02	5.72
North Carolina .....	5.46	5.39	4.81	4.96	4.87	4.92	4.84	4.53
North Dakota .....	4.59	4.68	4.89	4.98	5.15	5.00	4.92	4.57
Ohio .....	5.10	5.03	4.96	5.14	5.23	4.63	4.80	4.50
Oklahoma .....	4.52	4.29	4.16	4.17	4.11	4.12	4.38	4.35
Oregon .....	4.71	4.68	4.72	4.88	5.01	4.94	4.81	4.72
Pennsylvania .....	5.63	5.71	5.74	6.27	6.54	6.78	6.61	6.29
Rhode Island .....	6.94	7.57	7.36	5.09	5.08	5.32	5.71	5.76
South Carolina .....	5.90	5.96	5.21	5.26	5.22	5.24	5.22	4.97
South Dakota .....	4.43	4.44	4.83	4.61	4.61	4.39	4.03	4.18
Tennessee .....	5.49	5.32	5.21	5.13	5.21	4.82	4.86	4.73
Texas .....	4.78	4.89	4.25	4.16	3.70	3.57	4.06	3.94
Utah .....	4.33	4.26	4.10	4.29	4.39	4.42	4.44	4.29
Vermont .....	5.49	5.55	5.61	5.73	6.01	6.15	6.20	5.96
Virginia .....	5.59	5.20	5.35	5.00	5.02	4.99	4.45	4.15
Washington .....	3.75	4.32	4.44	4.49	4.58	4.52	4.51	4.37
West Virginia .....	5.80	5.97	6.29	7.47	7.59	7.55	7.03	6.30
Wisconsin .....	4.71	4.97	5.20	5.18	5.17	4.68	4.87	4.23
Wyoming .....	4.16	4.23	4.31	4.31	4.33	4.26	4.26	4.18
Total .....	5.11	5.11	4.64	4.69	4.72	4.63	4.72	4.59

See footnotes at end of table



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

State	April 1992	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991
Alabama .....	5.32	5.53	5.31	5.59	5.74	5.54	5.43	5.70
Alaska .....	2.65	2.70	2.70	2.68	2.89	2.64	2.60	2.85
Arizona .....	5.33	5.26	5.14	5.13	5.07	5.08	5.16	5.28
Arkansas .....	4.43	R 4.37	4.28	4.30	4.35	4.39	4.31	4.69
California .....	5.92	5.93	8.64	4.80	5.50	5.92	6.31	4.09
Colorado .....	3.95	3.91	3.88	3.86	4.04	3.97	4.04	4.25
Connecticut .....	7.23	7.23	7.79	7.80	6.90	7.10	6.83	6.92
Delaware .....	4.87	4.55	4.97	4.70	4.81	4.57	4.75	4.95
District of Columbia .....	5.02	5.08	5.38	5.21	5.17	5.15	5.21	5.08
Florida .....	4.71	4.67	4.71	4.79	4.92	5.09	5.17	5.14
Georgia .....	5.23	5.65	5.88	5.61	5.67	5.61	5.20	5.79
Hawaii .....	12.57	12.87	13.51	13.46	13.36	13.09	13.02	13.00
Idaho .....	4.58	4.35	4.29	4.25	4.42	4.31	4.63	4.66
Illinois .....	4.05	4.14	4.55	4.47	4.56	4.23	4.16	4.31
Indiana .....	4.54	4.08	4.84	4.57	4.61	4.44	3.99	4.12
Iowa .....	3.83	3.71	3.69	4.10	3.99	4.24	4.05	4.27
Kansas .....	3.59	4.00	4.14	3.98	3.32	4.25	2.78	3.30
Kentucky .....	4.26	4.15	4.26	4.42	4.44	4.42	4.34	4.16
Louisiana .....	4.06	R 4.60	4.27	4.67	4.90	5.05	4.84	5.42
Maine .....	6.44	6.44	6.82	6.33	6.02	6.36	6.12	5.51
Maryland .....	4.59	4.84	5.02	5.10	5.04	5.06	4.88	4.79
Massachusetts .....	6.53	6.78	6.93	6.94	6.17	7.10	6.73	4.81
Michigan .....	4.45	4.48	4.51	4.49	4.70	4.55	4.57	4.85
Minnesota .....	3.70	3.51	3.59	3.99	3.81	4.14	3.94	3.87
Mississippi .....	3.65	3.69	3.82	3.96	4.28	4.26	4.06	3.93
Missouri .....	4.08	4.26	4.36	4.39	4.50	4.41	4.32	4.65
Montana .....	4.52	4.45	4.40	4.41	4.35	4.38	4.35	4.40
Nebraska .....	3.67	3.47	3.75	4.09	3.87	4.08	4.06	3.97
Nevada .....	4.33	4.26	4.29	4.30	4.34	4.30	4.40	4.38
New Hampshire .....	6.44	6.46	6.43	6.44	6.35	6.53	6.59	5.93
New Jersey .....	5.55	5.08	5.75	5.82	5.21	4.84	4.75	4.93
New Mexico .....	3.45	3.67	3.70	3.43	4.15	3.60	4.11	4.43
New York .....	5.26	5.20	5.58	5.71	5.47	5.62	5.41	5.31
North Carolina .....	4.19	4.36	4.60	5.01	4.53	5.02	4.60	4.01
North Dakota .....	4.32	4.26	4.30	4.40	4.34	4.46	4.52	4.70
Ohio .....	4.38	4.35	4.35	4.63	4.76	4.67	4.61	4.57
Oklahoma .....	4.40	4.38	4.20	4.15	3.91	3.92	3.94	3.87
Oregon .....	4.70	4.67	4.65	4.65	4.75	4.67	4.67	4.86
Pennsylvania .....	6.18	5.81	5.90	5.71	6.00	5.73	5.76	5.94
Rhode Island .....	7.20	6.74	7.05	7.01	6.02	6.60	7.26	5.47
South Carolina .....	5.26	5.75	5.71	5.66	5.56	5.58	5.34	5.16
South Dakota .....	3.81	3.69	3.84	4.14	4.04	4.21	4.09	4.10
Tennessee .....	4.73	4.88	4.95	5.10	4.76	4.83	4.74	4.57
Texas .....	3.97	4.26	4.33	4.52	4.01	4.26	4.25	4.05
Utah .....	4.46	4.75	4.56	4.53	4.50	4.56	4.38	4.37
Vermont .....	5.66	5.62	5.69	5.53	5.24	5.30	5.10	4.97
Virginia .....	4.21	4.39	5.04	5.06	4.85	5.04	4.92	4.56
Washington .....	4.28	4.18	4.17	4.13	4.06	4.11	4.11	4.22
West Virginia .....	5.87	5.79	5.71	5.75	6.11	5.73	5.70	6.49
Wisconsin .....	4.25	4.28	4.25	4.58	4.62	4.71	4.56	4.32
Wyoming .....	4.20	4.17	4.17	4.21	4.31	4.25	4.42	4.45
Total .....	4.78	4.77	5.04	4.85	4.81	4.84	4.71	4.58

R = Revised Data.

NA = Not Available.

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

Source: Form EIA-857.

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

State	YTD 1993	YTD 1992	YTD 1991	April 1993	March 1993	February 1993	January 1993	Total 1992
Alabama .....	3.47	2.84	3.16	3.47	3.47	3.36	3.58	3.01
Alaska .....	1.35	1.19	1.17	1.35	1.35	1.35	1.35	1.18
Arizona .....	3.96	4.15	3.99	3.92	3.97	3.98	3.97	4.14
Arkansas .....	3.23	3.17	3.13	3.15	3.22	3.31	3.24	3.12
California .....	3.87	4.32	4.16	3.82	3.31	3.77	4.85	3.66
Colorado .....	2.33	2.38	2.34	2.26	2.27	2.27	2.49	2.24
Connecticut .....	4.95	5.27	5.09	4.77	4.96	5.01	5.04	4.79
Delaware .....	3.28	3.05	3.29	3.31	3.26	3.22	3.32	3.20
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	3.69	3.15	3.11	3.99	3.82	3.64	3.48	3.21
Georgia .....	3.99	3.31	3.63	4.11	3.99	3.79	4.12	3.41
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	2.98	—	—	—	—	—
Illinois .....	4.28	3.81	4.11	4.81	4.23	4.15	4.12	3.73
Indiana .....	3.55	3.54	4.02	3.46	3.41	3.48	3.86	3.30
Iowa .....	3.83	3.14	2.68	4.44	3.85	3.47	3.84	3.47
Kansas .....	2.74	2.51	2.67	2.60	2.84	2.65	2.87	2.60
Kentucky .....	3.77	3.51	3.61	3.44	3.76	3.83	4.23	3.29
Louisiana .....	2.11	1.58	1.83	2.24	1.96	1.96	2.27	1.91
Maine .....	5.08	4.63	4.75	4.75	5.49	5.40	4.76	4.14
Maryland .....	3.83	3.25	3.60	4.67	3.96	3.88	3.25	3.54
Massachusetts .....	6.32	5.43	5.22	5.81	6.44	6.62	6.38	4.33
Michigan .....	4.03	4.16	4.03	4.06	4.02	4.02	4.04	4.13
Minnesota .....	3.25	2.83	2.81	3.34	3.03	3.33	3.33	3.06
Mississippi .....	2.80	2.25	2.46	2.94	2.76	2.71	2.80	2.53
Missouri .....	4.22	3.79	4.29	4.19	4.16	4.27	4.26	3.82
Montana .....	3.86	3.28	3.34	3.82	3.81	3.81	3.99	3.53
Nebraska .....	3.12	2.52	2.92	3.17	2.97	3.04	3.24	2.78
Nevada .....	3.91	4.18	4.17	4.12	3.80	4.09	3.69	4.02
New Hampshire .....	5.37	4.98	5.08	4.07	6.06	5.91	5.66	4.56
New Jersey .....	3.73	3.74	4.29	3.44	3.83	3.70	3.91	3.43
New Mexico .....	3.79	3.29	3.83	3.92	4.01	3.78	3.67	3.04
New York .....	5.72	5.27	5.07	5.73	5.60	5.64	5.93	5.31
North Carolina .....	3.96	3.09	3.46	3.62	3.87	4.14	4.22	3.35
North Dakota .....	3.32	3.06	3.20	3.44	3.28	3.23	3.37	3.27
Ohio .....	4.64	3.96	4.30	4.47	4.52	4.72	4.85	4.15
Oklahoma .....	2.12	1.89	1.74	2.07	2.12	2.09	2.19	1.99
Oregon .....	3.55	3.32	3.40	3.52	3.54	3.54	3.59	3.34
Pennsylvania .....	3.80	4.03	4.18	3.66	3.78	3.91	3.84	3.88
Rhode Island .....	6.09	5.41	6.19	5.78	6.08	6.09	6.40	4.68
South Carolina .....	3.38	2.86	3.33	3.29	3.25	3.46	3.53	2.95
South Dakota .....	3.49	3.33	3.35	3.84	3.46	3.35	3.42	3.55
Tennessee .....	3.62	2.99	3.32	3.49	3.57	3.54	3.85	3.20
Texas .....	2.27	1.75	2.02	2.46	2.23	2.06	2.31	2.07
Utah .....	3.20	4.45	3.87	2.92	3.27	3.24	3.31	3.95
Vermont .....	3.66	2.91	3.36	3.59	3.54	3.67	3.81	3.28
Virginia .....	4.55	4.12	4.45	4.26	4.60	4.57	4.87	4.02
Washington .....	2.99	2.78	2.90	3.19	2.89	2.92	2.99	2.78
West Virginia .....	3.04	3.46	3.33	2.73	2.68	3.90	3.04	3.63
Wisconsin .....	3.91	3.61	3.33	3.99	3.85	3.83	3.97	3.81
Wyoming .....	2.81	2.64	2.94	2.80	2.81	2.74	2.88	2.68
Total .....	3.15	2.75	2.93	3.13	3.09	3.12	3.25	2.81

See footnotes at end of table.

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

State	December 1992	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992
Alabama .....	3.54	3.50	3.57	3.15	3.10	2.64	2.73	2.82
Alaska .....	1.19	1.17	1.17	1.17	1.16	1.17	1.16	1.16
Arizona .....	4.11	4.21	4.11	4.21	4.14	4.21	4.23	4.16
Arkansas .....	3.23	3.31	3.23	3.05	3.02	2.99	2.86	2.92
California .....	3.83	3.12	3.46	3.48	3.29	3.49	3.40	3.04
Colorado .....	2.36	2.33	2.38	1.66	2.34	1.91	2.22	2.35
Connecticut .....	4.92	4.73	4.52	3.99	4.15	4.21	4.40	4.59
Delaware .....	3.54	3.42	3.63	3.17	3.12	2.93	3.10	2.90
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	3.50	3.59	3.89	3.27	3.15	2.96	2.80	2.86
Georgia .....	4.36	4.21	4.30	2.86	3.29	3.14	3.13	2.96
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	—	—	—	—
Illinois .....	4.14	3.79	3.21	3.17	3.84	3.68	4.06	3.57
Indiana .....	4.09	3.44	2.95	3.29	2.78	2.99	2.94	2.90
Iowa .....	3.76	3.75	4.18	3.67	3.41	3.15	3.60	3.09
Kansas .....	3.03	2.87	2.87	2.71	2.58	2.41	2.40	2.32
Kentucky .....	4.30	4.07	3.23	3.17	3.20	2.86	2.87	2.90
Louisiana .....	2.49	2.65	2.64	2.15	1.94	1.82	1.80	1.70
Maine .....	4.97	4.50	3.88	3.55	3.49	3.36	3.65	3.43
Maryland .....	4.13	3.75	3.65	3.37	3.80	3.77	3.77	3.96
Massachusetts .....	5.83	5.38	3.57	3.26	3.19	3.58	3.04	3.68
Michigan .....	4.08	4.13	4.20	4.38	4.22	4.06	4.14	3.99
Minnesota .....	3.36	3.54	3.60	3.23	3.04	2.89	2.88	2.72
Mississippi .....	3.06	3.10	3.37	2.65	2.58	2.23	2.42	2.32
Missouri .....	4.45	4.46	3.46	3.81	3.45	3.42	3.57	3.61
Montana .....	3.93	4.05	4.04	3.92	3.66	3.54	3.46	3.37
Nebraska .....	3.28	3.33	3.54	2.93	3.13	2.79	2.54	2.39
Nevada .....	3.80	4.07	3.95	4.21	3.37	4.28	4.04	4.11
New Hampshire .....	5.67	5.40	4.27	3.68	3.53	3.71	3.73	4.77
New Jersey .....	4.39	3.46	3.29	3.05	2.85	2.97	2.96	2.98
New Mexico .....	3.56	3.11	2.96	2.60	2.69	2.98	2.81	2.59
New York .....	5.69	5.76	5.06	4.82	5.38	4.96	5.16	5.32
North Carolina .....	4.20	4.09	3.58	3.42	3.21	3.14	3.10	2.90
North Dakota .....	3.47	3.74	3.71	3.43	3.27	3.19	3.13	3.06
Ohio .....	4.71	4.65	4.15	4.32	4.15	4.46	3.84	3.88
Oklahoma .....	2.07	2.15	2.27	2.01	1.94	1.98	1.83	1.79
Oregon .....	3.56	3.45	3.41	3.29	3.28	3.29	3.31	3.27
Pennsylvania .....	4.02	3.72	3.68	3.72	3.78	3.99	4.37	4.21
Rhode Island .....	5.88	6.45	4.37	3.76	3.30	4.08	3.83	3.84
South Carolina .....	3.75	3.50	3.48	3.07	2.96	2.70	2.74	2.59
South Dakota .....	3.37	3.58	4.54	3.99	4.05	3.04	3.75	3.41
Tennessee .....	3.98	3.86	3.73	3.56	3.21	2.92	3.14	2.99
Texas .....	2.54	2.49	2.88	2.25	2.19	1.88	1.91	1.84
Utah .....	3.64	3.70	3.40	3.59	3.62	3.69	3.78	3.77
Vermont .....	3.81	3.75	3.56	3.56	3.57	3.32	3.22	3.09
Virginia .....	5.04	3.94	5.02	3.91	4.25	4.15	2.96	3.12
Washington .....	2.58	3.00	3.23	2.84	2.60	2.61	2.70	2.73
West Virginia .....	³ 3.88	³ 3.82	³ 3.71	3.69	³ 3.96	3.74	³ 3.37	3.47
Wisconsin .....	4.18	4.40	4.59	3.94	3.68	3.52	3.49	3.40
Wyoming .....	2.67	2.70	2.81	2.86	2.80	2.81	2.68	2.59
Total .....	3.34	3.24	2.98	2.78	² 2.68	2.50	2.52	2.44

See footnotes at end of table.

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

State	April 1992	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991
Alabama .....	2.76	2.63	2.80	3.22	3.00	3.42	3.05	3.06
Alaska .....	1.16	1.19	1.20	1.20	1.18	1.17	1.20	1.19
Arizona .....	4.11	4.24	4.09	4.14	3.51	4.05	4.06	4.12
Arkansas .....	3.07	3.11	3.24	3.24	3.06	3.15	3.19	3.05
California .....	3.99	4.27	4.42	4.56	3.96	4.71	3.92	3.42
Colorado .....	2.33	2.33	2.34	2.48	2.34	2.63	2.46	2.39
Connecticut .....	4.81	5.25	5.47	5.47	4.84	5.33	4.98	4.53
Delaware .....	2.98	2.97	3.04	3.20	3.09	3.28	3.22	3.04
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	3.06	3.21	3.16	3.18	3.11	3.41	2.45	4.39
Georgia .....	2.80	3.21	3.65	3.81	3.34	3.85	3.56	3.54
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	2.94	2.93	2.95	2.92
Illinois .....	3.67	3.64	4.03	3.83	3.77	3.47	3.21	3.37
Indiana .....	3.26	3.30	3.77	3.78	3.53	3.73	3.19	3.12
Iowa .....	3.07	3.07	2.98	3.36	2.65	3.50	3.21	3.50
Kansas .....	2.33	2.36	2.61	2.73	2.67	2.73	2.91	2.80
Kentucky .....	3.24	3.35	3.66	3.66	3.23	3.49	3.33	2.60
Louisiana .....	1.51	1.35	1.46	1.98	1.74	2.10	2.00	1.87
Maine .....	3.93	3.88	5.92	5.41	4.69	5.14	4.43	7.84
Maryland .....	3.00	3.11	3.41	3.33	3.51	3.45	3.75	3.45
Massachusetts .....	4.10	5.61	6.38	6.20	3.99	5.18	4.72	3.31
Michigan .....	4.11	4.03	4.26	4.21	4.00	3.92	3.87	3.98
Minnesota .....	2.60	2.53	2.96	3.10	2.78	2.99	2.90	2.80
Mississippi .....	2.20	2.12	2.14	2.54	2.35	2.65	2.49	2.44
Missouri .....	3.38	3.62	3.89	4.14	4.08	4.05	3.82	3.81
Montana .....	3.25	3.26	3.17	3.41	3.22	3.79	3.66	2.99
Nebraska .....	2.33	2.18	2.51	2.96	2.76	3.13	2.99	2.76
Nevada .....	4.07	4.09	4.27	4.28	4.21	4.36	4.08	4.12
New Hampshire .....	4.15	5.02	5.52	5.51	4.31	5.24	4.67	3.99
New Jersey .....	3.43	3.44	4.05	4.00	3.65	3.98	3.41	3.19
New Mexico .....	2.94	3.17	3.30	3.38	3.53	3.32	3.62	3.52
New York .....	5.23	4.97	5.50	5.31	4.72	4.87	4.56	4.66
North Carolina .....	2.88	2.86	3.00	3.59	3.24	3.57	3.38	2.83
North Dakota .....	2.86	2.82	3.08	3.36	3.19	3.37	3.31	3.13
Ohio .....	3.82	3.79	3.89	4.28	4.09	4.15	3.98	3.59
Oklahoma .....	1.96	1.86	2.00	1.81	1.69	1.75	1.83	1.74
Oregon .....	3.26	3.29	3.32	3.39	3.41	3.44	3.47	3.30
Pennsylvania .....	4.00	4.02	4.14	3.97	4.02	3.86	3.67	3.88
Rhode Island .....	4.10	5.59	6.42	6.35	5.40	6.24	5.44	4.75
South Carolina .....	2.55	2.74	2.88	3.26	2.95	3.31	3.11	2.82
South Dakota .....	3.22	3.19	3.25	3.61	3.31	3.74	3.74	3.34
Tennessee .....	2.87	2.84	2.88	3.34	3.22	3.46	3.34	4.03
Texas .....	1.74	1.63	1.58	2.06	1.93	2.33	2.16	2.13
Utah .....	3.70	4.06	6.16	3.80	3.69	3.78	3.73	3.46
Vermont .....	2.97	2.76	2.88	3.09	2.99	3.08	2.86	2.74
Virginia .....	3.67	3.96	4.38	4.47	3.81	3.86	3.98	3.63
Washington .....	2.69	2.72	2.69	2.98	2.79	2.97	2.76	2.65
West Virginia .....	<sup>R</sup> 3.41	3.54	<sup>R</sup> 3.48	<sup>R</sup> 3.39	2.95	3.76	3.39	2.94
Wisconsin .....	3.38	3.51	3.52	3.93	3.16	3.62	3.38	3.08
Wyoming .....	2.60	2.64	2.63	2.67	3.03	3.05	2.94	3.00
Total .....	2.53	2.58	2.79	3.05	2.69	3.09	2.84	2.69

<sup>R</sup> = Revised Data.  
<sup>NA</sup> = Not Available.  
 — = Not Applicable.

Notes: Data for 1991 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 26 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries.

Source: Form EIA-857.

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

State	YTD 1993	YTD 1992	YTD 1991	March 1993	February 1993	January 1993	Total 1992	December 1992
Alabama .....	2.42	1.88	2.13	2.42	2.29	2.59	2.28	2.88
Alaska .....	.64	.60	.55	.64	.64	.64	.57	.56
Arizona .....	2.97	2.14	2.05	2.70	3.12	3.81	2.28	3.99
Arkansas .....	1.52	1.35	1.47	1.50	1.38	1.64	1.57	1.35
California .....	3.14	2.66	3.24	3.09	3.02	3.29	2.81	3.24
Colorado .....	2.42	2.05	2.38	2.39	2.33	2.51	2.14	2.49
Connecticut .....	4.77	2.75	4.66	6.07	3.50	6.86	2.74	6.11
Delaware .....	3.27	2.70	2.64	2.78	4.38	3.65	2.70	5.40
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	2.31	1.83	2.21	2.41	2.23	2.27	2.30	2.32
Georgia .....	3.67	3.24	3.42	3.90	3.51	3.90	2.89	4.38
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	—	—	—	—
Illinois .....	3.02	2.03	2.92	3.00	3.08	2.99	2.24	3.11
Indiana .....	2.76	2.37	2.59	2.42	2.94	2.87	2.48	2.81
Iowa .....	3.34	2.62	3.02	3.30	3.34	3.37	3.08	3.42
Kansas .....	2.36	1.91	2.01	2.29	2.42	2.40	1.93	2.42
Kentucky .....	2.83	2.64	2.80	2.76	2.74	2.99	2.77	3.12
Louisiana .....	2.27	1.46	1.63	2.31	2.10	2.35	1.91	2.35
Maine .....	—	—	—	—	—	—	—	—
Maryland .....	2.90	2.80	2.91	2.82	2.86	3.14	2.66	4.07
Massachusetts .....	2.96	2.75	3.27	2.92	3.25	3.51	2.68	3.70
Michigan .....	.68	.77	.37	.45	.85	.68	.81	.64
Minnesota .....	2.58	1.75	1.76	2.38	2.52	2.81	1.85	2.74
Mississippi .....	2.11	1.54	1.87	2.23	1.98	2.06	1.85	2.34
Missouri .....	2.60	2.51	1.74	2.71	2.42	2.62	1.89	2.75
Montana .....	6.60	7.12	3.13	10.41	2.78	7.62	3.30	2.44
Nebraska .....	2.65	2.33	2.19	2.46	2.61	2.88	2.28	2.84
Nevada .....	2.70	1.60	2.04	2.42	3.11	3.17	1.91	3.12
New Hampshire .....	—	—	—	—	—	—	2.21	—
New Jersey .....	2.46	1.92	2.73	2.51	2.35	2.66	2.18	3.09
New Mexico .....	2.20	1.78	1.79	2.21	2.06	2.35	1.99	2.40
New York .....	2.81	2.44	2.81	2.76	2.66	3.02	2.48	3.21
North Carolina .....	4.02	2.75	3.30	3.71	4.11	4.16	2.96	4.15
North Dakota .....	—	—	—	—	—	—	4.18	4.46
Ohio .....	2.58	2.42	2.61	2.34	2.64	2.79	2.31	2.59
Oklahoma .....	3.42	3.33	3.25	3.57	3.37	3.31	3.20	3.25
Oregon .....	2.24	1.67	1.93	2.09	1.99	2.96	1.94	2.44
Pennsylvania .....	2.49	2.99	3.17	2.58	2.41	2.47	3.06	3.51
Rhode Island .....	—	1.86	1.90	—	—	—	2.20	—
South Carolina .....	3.37	1.50	1.98	3.20	3.61	3.78	1.73	3.72
South Dakota .....	2.05	1.64	—	2.62	—	—	2.88	2.95
Tennessee .....	—	—	—	—	—	—	—	—
Texas .....	2.39	2.03	2.16	2.40	2.32	2.46	2.26	2.67
Utah .....	1.92	1.84	1.83	1.86	1.87	2.03	1.87	2.27
Vermont .....	3.43	1.79	—	3.33	3.60	3.30	2.00	3.14
Virginia .....	2.90	2.52	3.08	3.01	3.10	2.57	2.49	2.70
Washington .....	3.88	3.35	4.02	4.05	3.73	3.70	3.31	4.54
West Virginia .....	1.93	3.67	4.01	4.18	—	4.04	3.53	3.51
Wisconsin .....	2.62	2.28	2.94	2.33	2.68	3.22	2.43	3.41
Wyoming .....	3.22	3.50	3.24	3.20	3.21	3.25	3.33	3.29
Total .....	2.62	2.16	2.42	2.61	2.55	2.70	2.37	2.81

See footnotes at end of table.

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

State	November 1992	October 1992	September 1992	August 1992	July 1992	June 1992	May 1992	April 1992
Alabama .....	2.79	3.20	2.43	2.36	1.98	2.15	2.05	1.86
Alaska .....	.56	.56	.57	.54	.55	.57	.56	.56
Arizona .....	3.47	2.40	2.40	2.40	2.21	2.27	2.14	1.81
Arkansas .....	1.15	2.18	1.85	1.85	1.64	1.50	1.52	1.44
California .....	3.28	3.41	2.93	2.73	2.57	2.39	2.39	2.50
Colorado .....	2.45	2.50	1.94	1.80	1.98	1.84	1.98	2.02
Connecticut .....	7.15	6.29	6.31	2.82	2.58	2.62	2.57	2.25
Delaware .....	4.89	4.31	3.32	2.68	2.22	2.47	2.86	2.35
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	2.65	2.88	2.59	2.51	2.41	2.41	2.29	2.01
Georgia .....	4.05	4.32	2.30	2.75	2.83	2.61	2.99	2.80
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	—	—	—	—
Illinois .....	3.05	2.93	2.39	2.43	2.37	2.29	2.07	2.03
Indiana .....	3.21	3.14	3.00	2.57	2.31	2.30	2.11	2.44
Iowa .....	3.37	3.77	3.51	3.32	2.80	3.01	2.93	2.76
Kansas .....	2.22	2.14	1.99	1.98	1.82	1.98	1.67	1.73
Kentucky .....	3.24	3.38	2.67	2.59	2.46	2.60	2.71	2.67
Louisiana .....	2.51	2.73	2.16	2.04	1.72	1.90	1.78	1.56
Maine .....	—	—	—	—	—	—	—	—
Maryland .....	3.79	3.78	2.82	2.73	2.33	2.45	2.15	2.38
Massachusetts .....	3.27	3.43	2.81	2.67	2.59	2.37	2.17	2.19
Michigan .....	.67	.56	1.28	.51	.63	.81	1.34	.93
Minnesota .....	2.52	3.35	1.89	1.81	1.76	1.64	1.54	1.62
Mississippi .....	2.46	2.66	2.22	2.10	1.87	1.97	1.72	1.65
Missouri .....	2.61	2.13	2.31	2.17	1.49	1.94	2.12	1.60
Montana .....	2.38	9.41	3.76	2.93	2.19	2.48	3.04	1.40
Nebraska .....	2.32	2.46	2.27	2.50	2.12	2.10	2.31	1.54
Nevada .....	2.44	2.55	1.87	2.25	1.86	1.95	1.59	1.43
New Hampshire .....	—	—	2.20	2.25	—	—	—	—
New Jersey .....	2.98	2.92	2.42	2.35	2.02	2.23	2.26	1.84
New Mexico .....	2.45	2.67	2.30	2.11	1.71	1.77	1.72	1.61
New York .....	3.12	3.22	2.55	2.39	2.06	2.30	2.28	2.19
North Carolina .....	4.10	3.22	3.15	2.83	2.78	2.83	2.52	2.53
North Dakota .....	—	—	4.05	4.30	4.03	—	—	—
Ohio .....	4.17	2.66	1.97	2.01	2.11	2.14	2.06	2.08
Oklahoma .....	3.76	4.11	3.29	3.19	2.92	3.08	2.72	2.74
Oregon .....	2.15	2.18	2.05	1.99	1.72	1.88	—	—
Pennsylvania .....	5.19	4.07	3.49	3.20	2.34	2.73	3.16	2.90
Rhode Island .....	—	—	2.84	2.45	2.45	2.27	2.13	2.04
South Carolina .....	3.33	3.30	2.74	2.46	1.91	1.71	2.56	3.15
South Dakota .....	2.92	4.04	—	2.61	—	—	—	—
Tennessee .....	—	—	—	—	—	—	—	—
Texas .....	2.69	2.90	2.34	2.30	2.05	2.06	2.03	1.99
Utah .....	1.80	1.99	1.98	1.92	1.76	1.74	1.67	1.82
Vermont .....	3.02	2.18	2.24	2.16	2.09	1.94	1.77	1.74
Virginia .....	.48	5.05	2.20	3.10	2.18	2.65	2.56	2.32
Washington .....	4.57	5.97	3.32	2.94	2.95	3.31	3.57	7.71
West Virginia .....	3.27	3.34	4.27	3.40	5.36	3.26	1.21	—
Wisconsin .....	3.33	3.47	2.80	2.30	2.21	2.06	2.01	1.94
Wyoming .....	3.22	3.21	3.19	3.22	3.22	3.31	3.37	3.36
Total .....	2.87	3.04	2.51	2.42	2.15	2.18	2.11	2.07

See footnotes at end of table.

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

State	March 1992	February 1992	January 1992	Total 1991	December 1991	November 1991	October 1991	September 1991
Alabama .....	1.70	1.62	2.28	1.91	2.57	2.28	2.23	1.85
Alaska .....	.59	.60	.62	.53	.54	.53	.52	.57
Arizona .....	2.02	2.09	2.35	2.06	3.39	2.57	2.17	2.14
Arkansas .....	1.38	1.33	1.33	1.44	1.29	1.29	1.75	1.49
California .....	2.36	2.41	3.22	2.95	3.36	3.04	2.71	2.71
Colorado .....	1.81	2.26	2.20	2.14	2.34	2.10	2.08	2.10
Connecticut .....	2.23	6.29	6.30	2.16	5.45	5.17	2.27	2.14
Delaware .....	2.68	2.63	2.80	2.49	3.08	3.09	2.44	2.57
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	1.82	1.74	1.93	2.17	2.33	2.34	2.25	2.13
Georgia .....	3.18	3.19	3.64	2.83	3.08	2.86	3.19	2.74
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	—	—	—	—
Illinois .....	1.69	2.10	2.64	2.14	2.59	2.44	2.26	1.94
Indiana .....	2.18	2.19	2.63	2.38	2.61	2.84	2.75	2.30
Iowa .....	2.56	2.35	3.23	2.70	3.31	3.04	3.18	2.74
Kansas .....	1.87	1.85	2.02	1.65	2.09	1.85	1.75	1.64
Kentucky .....	2.57	2.32	2.80	2.65	2.75	2.75	2.48	2.35
Louisiana .....	1.36	1.31	1.75	1.59	1.86	1.88	1.87	1.61
Maine .....	—	—	—	—	—	—	—	—
Maryland .....	2.57	2.75	3.44	2.36	3.49	3.07	2.43	2.36
Massachusetts .....	2.39	3.98	4.48	2.27	3.91	2.50	2.46	2.31
Michigan .....	.71	.94	.66	.76	.91	.74	.68	.93
Minnesota .....	1.53	1.65	2.29	1.71	2.36	2.27	2.04	1.77
Mississippi .....	1.49	1.33	2.06	1.61	2.08	2.07	1.90	1.63
Missouri .....	2.89	1.72	2.89	1.51	2.66	3.05	1.88	1.45
Montana .....	6.28	8.22	7.35	4.33	4.58	5.75	4.97	6.17
Nebraska .....	2.02	2.58	2.80	1.85	2.21	1.97	1.88	1.90
Nevada .....	1.53	1.45	1.94	1.78	2.16	2.01	1.98	1.68
New Hampshire .....	—	—	—	—	—	—	—	—
New Jersey .....	1.73	2.22	2.83	2.02	2.80	2.61	2.20	1.92
New Mexico .....	1.64	1.54	2.09	1.73	2.29	2.09	1.91	1.78
New York .....	2.27	2.37	2.82	2.30	3.13	2.84	2.44	2.12
North Carolina .....	2.69	2.68	2.86	2.76	2.83	2.66	3.06	2.60
North Dakota .....	4.28	—	—	4.36	—	4.19	—	—
Ohio .....	2.48	2.31	2.46	2.19	2.54	2.84	2.30	2.12
Oklahoma .....	2.92	3.35	3.83	2.98	3.65	2.56	3.33	2.80
Oregon .....	—	1.53	1.81	1.59	1.94	1.71	1.64	1.48
Pennsylvania .....	2.91	3.07	3.05	3.05	3.23	3.93	3.80	2.96
Rhode Island .....	1.86	—	—	2.04	—	2.43	2.33	2.16
South Carolina .....	1.46	3.29	3.45	1.53	2.44	2.92	3.19	1.69
South Dakota .....	—	—	2.60	1.77	—	—	—	2.42
Tennessee .....	—	—	—	—	—	—	—	—
Texas .....	1.94	1.92	2.23	2.03	2.43	2.29	2.26	2.14
Utah .....	1.83	1.88	1.82	1.72	1.85	1.80	1.77	1.68
Vermont .....	1.63	2.57	2.85	1.72	2.38	1.93	1.83	1.69
Virginia .....	2.22	2.56	2.69	1.90	2.29	2.41	2.03	1.95
Washington .....	4.18	3.13	3.01	4.02	4.02	4.02	4.02	4.02
West Virginia .....	3.66	3.89	3.60	3.63	3.72	3.53	3.24	6.96
Wisconsin .....	1.94	2.72	2.88	2.72	3.21	3.09	3.06	2.72
Wyoming .....	3.48	3.49	3.51	3.51	3.54	3.55	3.54	3.37
Total .....	1.99	2.03	2.49	2.18	2.64	2.43	2.35	2.19

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

<sup>b</sup> 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	April 1993		March 1993		February 1993		January 1993	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	80.3	19.8	82.4	19.9	81.8	22.0	80.3	20.3
Alaska .....	100.0	73.4	100.0	70.1	100.0	73.3	100.0	76.0
Arizona .....	89.7	24.0	93.4	28.0	94.9	25.6	94.9	29.3
Arkansas .....	91.7	16.0	92.7	16.1	92.9	16.6	92.4	16.6
California .....	79.6	35.8	76.4	36.0	81.2	44.6	78.7	31.6
Colorado .....	95.5	34.1	96.2	32.7	96.2	34.9	96.3	35.3
Connecticut .....	98.0	69.9	97.0	73.5	97.5	73.4	97.0	71.5
Delaware .....	100.0	72.5	100.0	73.7	100.0	75.5	100.0	71.8
District of Columbia .....	100.0	—	100.0	—	100.0	—	99.9	—
Florida .....	97.3	28.5	96.5	28.6	96.6	31.0	89.9	33.4
Georgia .....	90.0	26.4	94.0	35.0	92.2	37.7	90.7	31.1
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	88.0	.0	91.0	.0	89.9	.0	89.4	.0
Illinois .....	56.4	16.0	58.4	15.4	58.4	16.9	60.8	21.0
Indiana .....	99.5	25.8	99.5	27.4	93.7	26.8	94.2	23.9
Iowa .....	95.9	11.9	95.5	14.9	96.2	18.1	96.2	16.2
Kansas .....	83.4	12.5	85.1	10.4	82.1	8.6	83.3	9.9
Kentucky .....	93.0	37.7	94.9	29.0	95.1	21.4	95.0	19.9
Louisiana .....	98.4	35.0	97.9	31.3	97.8	34.3	97.2	34.5
Maine .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland .....	96.2	9.0	96.4	22.0	97.3	14.9	97.2	18.5
Massachusetts .....	99.7	56.0	99.8	54.1	100.0	58.2	99.7	57.9
Michigan .....	66.5	8.5	71.3	10.2	71.0	10.8	73.1	11.5
Minnesota .....	99.1	45.9	96.4	48.4	96.8	48.7	98.7	50.4
Mississippi .....	96.7	32.2	92.7	35.8	84.4	34.5	91.6	34.8
Missouri .....	86.8	24.2	88.8	27.2	86.3	28.5	86.9	29.1
Montana .....	93.9	14.1	94.9	14.9	94.1	16.1	95.4	16.4
Nebraska .....	91.7	24.2	93.0	42.4	93.2	45.4	91.3	45.0
Nevada .....	91.1	3.7	94.3	7.5	96.0	6.9	97.0	6.1
New Hampshire .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey .....	91.4	55.4	93.9	58.5	94.2	60.5	95.4	63.4
New Mexico .....	61.2	1.7	66.1	1.6	62.5	2.8	67.8	4.8
New York .....	78.7	21.9	82.8	25.9	82.2	28.0	82.3	24.4
North Carolina .....	100.0	95.6	100.0	92.8	100.0	93.9	100.0	97.0
North Dakota .....	76.8	26.2	77.3	29.5	73.8	31.4	77.1	34.2
Ohio .....	83.5	10.7	86.7	13.5	86.8	12.6	89.2	11.2
Oklahoma .....	90.2	31.0	91.0	27.1	91.3	38.1	91.2	41.2
Oregon .....	97.9	22.0	98.5	23.8	98.9	26.0	98.5	25.4
Pennsylvania .....	77.6	27.0	79.0	25.5	78.8	26.7	80.0	29.8
Rhode Island .....	100.0	10.7	100.0	11.6	100.0	11.8	100.0	10.6
South Carolina .....	100.0	58.2	100.0	67.0	100.0	70.0	98.4	69.8
South Dakota .....	81.2	55.1	84.4	54.3	83.9	61.4	86.5	68.3
Tennessee .....	95.8	45.7	95.8	47.3	96.2	44.8	95.9	39.1
Texas .....	83.9	30.9	84.7	35.5	86.0	33.8	84.4	32.9
Utah .....	100.0	11.0	100.0	10.6	100.0	11.2	100.0	9.0
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	86.3	16.1	88.6	14.2	90.9	15.2	84.3	9.4
Washington .....	94.2	45.1	93.8	44.4	93.2	45.9	93.8	47.9
West Virginia .....	53.2	7.7	55.9	8.0	56.0	6.7	55.7	8.8
Wisconsin .....	89.2	43.3	92.4	49.6	93.3	49.1	92.5	47.1
Wyoming .....	98.2	3.0	98.4	5.0	98.3	4.2	98.5	4.7
Total .....	78.9	28.1	80.3	29.2	80.5	30.1	80.5	29.5

See footnotes at end of table.



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

State	Total 1992		December 1992		November 1992		October 1992	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	78.6	24.3	78.3	25.3	71.5	24.6	70.4	23.1
Alaska .....	100.0	69.7	100.0	73.9	100.0	72.2	100.0	71.2
Arizona .....	R 87.7	29.9	94.4	31.2	91.5	28.8	93.2	30.2
Arkansas .....	R 96.0	12.8	91.5	16.4	87.6	14.7	86.4	13.9
California .....	74.0	34.6	81.0	37.4	76.3	34.8	78.6	39.1
Colorado .....	95.3	R 40.6	96.0	38.3	93.4	33.5	90.9	38.5
Connecticut .....	96.4	65.6	98.3	75.2	98.1	78.8	97.8	68.6
Delaware .....	100.0	65.1	100.0	74.0	100.0	72.3	100.0	68.9
District of Columbia .....	99.0	—	99.9	—	99.9	—	99.9	—
Florida .....	95.9	29.6	90.6	32.4	90.3	29.4	92.8	25.7
Georgia .....	87.3	30.8	92.3	36.4	87.1	25.6	83.6	26.2
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	85.7	.0	88.3	.0	82.2	.0	77.9	.0
Illinois .....	57.1	14.2	59.3	19.6	59.8	21.2	54.9	18.5
Indiana .....	77.0	23.6	98.1	22.7	99.8	30.2	99.8	28.7
Iowa .....	85.6	16.7	96.5	22.9	96.0	25.0	90.7	18.4
Kansas .....	84.0	9.5	82.0	7.8	77.4	9.0	80.6	8.9
Kentucky .....	92.5	29.5	94.6	23.1	94.3	30.9	92.5	52.3
Louisiana .....	R 92.0	34.3	97.6	34.4	96.0	32.3	98.6	32.6
Maine .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland .....	95.9	14.5	97.3	22.8	96.9	31.9	94.9	13.3
Massachusetts .....	99.7	81.1	100.0	75.5	99.8	76.7	99.5	81.9
Michigan .....	67.7	7.7	72.1	10.9	67.4	7.2	59.8	4.8
Minnesota .....	90.6	40.5	97.1	52.5	96.3	47.0	99.3	43.4
Mississippi .....	94.3	34.7	91.4	34.1	95.0	34.2	94.9	32.6
Missouri .....	85.1	22.5	86.5	26.9	80.1	21.8	74.9	28.6
Montana .....	97.4	17.8	94.6	13.5	92.9	14.4	92.1	11.3
Nebraska .....	87.6	52.7	90.7	55.7	86.8	57.0	83.6	51.0
Nevada .....	88.2	10.9	95.3	20.1	88.5	9.5	88.9	9.5
New Hampshire .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey .....	92.1	62.4	96.9	67.7	95.0	70.2	86.9	56.3
New Mexico .....	64.6	4.0	55.1	9.1	50.9	7.6	51.8	2.9
New York .....	76.7	19.7	80.7	22.1	81.8	21.3	75.0	18.4
North Carolina .....	95.5	80.3	100.0	98.8	100.0	97.3	99.9	96.5
North Dakota .....	68.8	21.3	88.8	30.9	67.3	25.7	56.8	18.0
Ohio .....	86.6	11.4	89.4	14.3	86.8	12.6	85.3	12.1
Oklahoma .....	87.3	23.3	89.8	41.6	84.5	31.3	82.7	27.8
Oregon .....	R 97.8	16.2	98.3	19.5	97.3	17.9	94.5	14.7
Pennsylvania .....	76.8	19.8	80.5	30.3	75.3	26.6	75.2	25.8
Rhode Island .....	99.9	R 13.6	100.0	10.5	100.0	8.2	100.0	7.6
South Carolina .....	98.3	64.7	100.0	72.8	100.0	67.7	99.6	64.3
South Dakota .....	81.9	52.3	84.7	68.5	81.8	64.1	78.4	59.2
Tennessee .....	95.4	46.9	96.0	47.4	96.9	46.0	96.7	45.7
Texas .....	84.5	26.6	82.1	28.2	80.2	23.7	76.9	29.2
Utah .....	100.0	10.4	100.0	12.5	100.0	10.2	100.0	10.3
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	87.2	13.2	88.7	15.3	84.5	18.0	88.2	15.0
Washington .....	87.2	36.3	92.3	45.3	86.8	37.0	83.4	35.4
West Virginia .....	46.9	R 2.5	48.7	R 4.6	46.8	R 2.8	38.6	R 2.3
Wisconsin .....	87.3	38.3	92.3	45.7	90.0	42.9	84.1	35.4
Wyoming .....	R 93.9	3.1	98.0	4.0	97.9	3.6	R 96.8	2.3
Total .....	R 78.9	26.8	85.3	29.2	R 78.4	27.4	R 80.5	R 29.8

See footnotes at end of table.

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

State	September 1992		August 1992		July 1992		June 1992	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	71.8	21.2	72.0	23.2	72.8	26.3	75.2	22.7
Alaska .....	100.0	81.3	100.0	60.1	100.0	66.6	100.0	69.9
Arizona .....	¶ 90.5	27.3	¶ 85.9	26.1	87.0	26.4	¶ 88.8	26.4
Arkansas .....	85.1	11.8	84.0	11.7	84.5	11.9	85.8	12.6
California .....	79.3	40.9	64.0	37.2	60.3	38.6	74.1	33.3
Colorado .....	93.3	41.8	93.0	35.8	93.9	41.3	95.8	28.9
Connecticut .....	98.7	63.9	98.7	61.7	95.7	54.1	87.0	52.1
Delaware .....	100.0	61.9	100.0	62.3	100.0	59.1	100.0	60.0
District of Columbia .....	98.9	—	99.4	—	91.4	—	99.9	—
Florida .....	98.0	28.8	97.8	28.0	97.8	30.8	98.0	34.2
Georgia .....	82.4	36.1	82.3	31.4	78.5	27.4	81.6	26.3
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	90.2	.0	82.4	.0	81.0	.0	80.2	.0
Illinois .....	46.3	12.2	48.5	7.5	43.7	7.0	42.7	5.3
Indiana .....	92.5	21.2	99.6	25.9	93.3	18.1	99.9	23.2
Iowa .....	88.4	12.6	90.4	12.4	91.1	11.2	93.0	12.1
Kansas .....	86.6	9.7	88.5	12.4	88.0	11.1	86.4	8.7
Kentucky .....	86.9	44.8	86.4	36.7	85.6	38.2	85.8	39.9
Louisiana .....	98.7	35.4	98.5	31.6	98.6	33.9	98.5	30.8
Maine .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland .....	94.0	5.8	92.5	6.3	92.9	5.1	92.7	4.8
Massachusetts .....	99.4	81.7	99.5	81.8	99.6	82.9	99.7	80.5
Michigan .....	48.6	3.5	50.3	3.3	47.2	3.8	54.2	3.9
Minnesota .....	92.6	38.1	89.1	34.6	92.6	31.0	87.6	35.3
Mississippi .....	90.7	32.7	94.4	34.5	94.9	34.4	94.7	32.8
Missouri .....	72.9	17.9	74.4	20.9	70.1	18.0	80.3	18.8
Montana .....	90.7	9.5	96.7	15.1	95.4	15.4	94.9	16.7
Nebraska .....	79.3	44.0	83.3	50.6	85.3	47.3	81.4	43.6
Nevada .....	82.7	9.3	81.4	9.9	84.8	7.0	84.0	11.0
New Hampshire .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey .....	81.3	56.7	81.3	61.1	89.0	60.8	91.6	60.4
New Mexico .....	54.7	8.5	58.6	1.9	56.5	1.7	60.8	2.2
New York .....	68.1	13.8	68.2	11.4	71.9	14.7	69.8	12.3
North Carolina .....	88.3	74.1	85.0	61.2	82.8	47.0	84.6	61.1
North Dakota .....	57.1	14.2	58.8	13.0	61.6	12.5	63.7	14.7
Ohio .....	74.8	7.3	75.2	9.0	73.7	7.2	75.5	8.3
Oklahoma .....	81.5	24.9	83.1	21.3	77.0	15.9	81.4	16.6
Oregon .....	97.8	13.8	96.7	13.8	97.9	13.6	97.7	16.0
Pennsylvania .....	70.8	17.6	68.6	15.3	69.5	12.0	74.4	10.4
Rhode Island .....	100.0	13.4	100.0	10.3	100.0	14.7	100.0	¶ 10.8
South Carolina .....	96.4	60.9	95.0	63.1	94.7	59.6	95.1	62.3
South Dakota .....	78.0	54.7	74.5	50.2	72.3	37.4	73.5	39.2
Tennessee .....	89.7	36.3	88.3	40.3	96.7	41.0	94.8	45.1
Texas .....	76.3	24.8	81.7	27.6	82.1	26.3	83.1	28.9
Utah .....	100.0	9.8	100.0	9.4	100.0	9.2	100.0	9.3
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	81.3	16.4	83.7	10.5	84.9	5.7	86.5	14.5
Washington .....	81.3	36.9	80.2	26.7	78.5	35.7	80.6	33.3
West Virginia .....	25.4	2.3	25.3	¶ 2.4	27.1	1.7	30.2	¶ 2.1
Wisconsin .....	78.8	31.7	76.9	30.1	78.2	28.8	71.8	26.3
Wyoming .....	97.0	2.0	96.7	2.1	96.1	2.0	96.8	2.1
Total .....	¶ 74.0	25.9	¶ 72.2	¶ 25.4	72.0	24.5	¶ 73.2	24.8

See footnotes at end of table.

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

State	May 1992		April 1992		March 1992		February 1992	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	76.6	22.8	81.2	23.4	83.0	29.1	85.1	26.1
Alaska .....	100.0	67.6	100.0	68.7	100.0	69.0	100.0	68.0
Arizona .....	89.8	26.4	94.0	31.5	97.7	33.1	98.6	33.0
Arkansas .....	87.3	12.2	92.0	13.9	90.8	13.9	94.1	15.8
California .....	62.9	30.9	78.6	44.0	75.3	30.5	65.1	29.3
Colorado .....	94.8	29.5	95.4	26.8	95.7	28.5	96.5	26.0
Connecticut .....	93.5	54.1	94.3	59.2	95.5	62.6	97.1	72.0
Delaware .....	100.0	63.5	100.0	61.1	100.0	62.2	100.0	63.8
District of Columbia .....	97.5	—	97.3	—	99.9	—	99.9	—
Florida .....	98.1	35.1	98.0	24.7	97.1	25.6	96.9	25.3
Georgia .....	84.0	35.8	87.4	41.3	88.6	28.6	90.0	25.0
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	83.1	.0	85.2	.0	87.1	.0	89.0	.0
Illinois .....	52.3	8.7	58.8	11.4	58.8	13.9	57.5	18.1
Indiana .....	99.7	25.1	96.8	22.9	98.9	20.6	93.3	20.1
Iowa .....	94.2	12.8	98.1	14.2	96.4	14.7	97.3	18.9
Kansas .....	88.5	12.1	86.4	9.3	83.3	7.7	83.3	9.4
Kentucky .....	88.9	27.8	91.2	17.9	93.0	14.0	93.7	16.3
Louisiana .....	98.6	45.3	98.8	41.5	98.5	43.1	98.1	42.4
Maine .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland .....	93.9	3.9	95.5	10.6	96.1	17.1	97.1	22.2
Massachusetts .....	99.6	83.7	99.7	86.1	99.7	80.4	99.9	82.7
Michigan .....	65.4	6.0	69.4	8.9	70.3	10.2	73.5	12.2
Minnesota .....	91.7	33.8	95.1	37.9	95.6	40.6	94.9	39.0
Mississippi .....	94.4	33.8	96.0	34.9	95.6	38.6	93.1	40.7
Missouri .....	82.5	17.7	87.9	28.6	89.0	26.4	89.9	31.2
Montana .....	96.6	17.7	96.5	23.8	96.7	27.7	97.9	27.1
Nebraska .....	88.4	54.3	90.7	51.4	88.6	56.6	90.6	54.3
Nevada .....	83.7	9.1	87.2	10.1	88.3	9.8	89.5	13.3
New Hampshire .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey .....	94.3	62.1	88.2	53.4	92.3	63.0	92.3	67.3
New Mexico .....	58.1	7.0	67.9	.6	70.4	1.4	81.5	1.5
New York .....	71.4	14.3	78.4	21.2	78.7	23.6	78.0	26.3
North Carolina .....	87.4	60.9	92.5	72.4	99.1	94.8	99.1	93.5
North Dakota .....	73.3	16.8	71.5	24.8	71.9	21.3	73.7	28.8
Ohio .....	80.3	8.2	86.7	11.9	89.2	13.0	88.9	14.7
Oklahoma .....	82.9	16.5	89.1	16.1	88.3	18.3	90.8	18.9
Oregon .....	97.7	19.3	97.6	19.5	97.3	18.7	98.3	14.8
Pennsylvania .....	73.1	12.5	76.3	17.6	77.8	18.7	78.6	20.2
Rhode Island .....	100.0	15.9	99.6	14.0	100.0	11.5	100.0	8.4
South Carolina .....	98.2	67.0	98.3	59.2	98.6	59.6	98.9	66.8
South Dakota .....	80.7	40.8	83.0	44.3	81.0	41.8	83.3	53.3
Tennessee .....	92.3	47.8	96.5	47.9	96.0	53.1	96.4	54.6
Texas .....	84.5	25.7	88.9	27.9	88.4	24.3	90.5	27.9
Utah .....	100.0	9.4	100.0	10.1	100.0	9.5	100.0	11.1
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	87.1	12.0	90.3	14.5	92.6	13.6	92.1	15.9
Washington .....	83.4	35.0	85.4	35.4	88.7	37.9	89.0	38.6
West Virginia .....	44.4	2.5	53.2	3.0	49.9	3.4	56.7	3.2
Wisconsin .....	77.7	31.1	88.8	37.6	88.4	41.2	89.9	43.0
Wyoming .....	97.6	2.8	98.1	3.8	97.5	4.2	97.8	4.3
Total .....	74.9	25.7	79.1	26.9	80.8	26.2	80.0	27.4

See footnotes at end of table.

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

State	January 1992		Total 1991		December 1991		November 1991	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	81.8	23.4	82.7	31.4	81.7	30.4	75.4	29.3
Alaska .....	100.0	68.7	100.0	69.1	100.0	70.8	100.0	68.4
Arizona .....	98.6	38.6	93.2	48.1	97.7	40.4	92.8	31.6
Arkansas .....	93.4	15.1	91.5	19.4	92.2	19.0	90.5	19.1
California .....	86.3	26.6	77.8	29.8	80.3	25.6	69.8	29.8
Colorado .....	96.5	29.3	96.0	34.7	96.2	29.9	94.6	31.6
Connecticut .....	97.6	75.8	93.0	68.2	96.5	73.5	93.0	67.2
Delaware .....	100.0	65.9	100.0	65.9	100.0	67.3	100.0	63.9
District of Columbia .....	99.6	—	97.3	—	99.4	—	95.6	—
Florida .....	96.4	34.3	97.4	40.7	96.8	40.1	96.7	37.4
Georgia .....	90.1	30.2	87.5	36.8	92.4	35.7	90.7	37.2
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	89.4	.0	87.6	.4	87.4	.4	85.0	.5
Illinois .....	62.4	20.1	59.0	15.4	60.2	21.1	60.4	21.1
Indiana .....	94.5	23.5	94.2	21.4	95.3	25.9	97.8	28.5
Iowa .....	97.5	21.1	97.6	28.1	97.9	26.1	98.4	26.0
Kansas .....	82.4	8.5	89.2	15.1	85.3	11.5	87.7	12.2
Kentucky .....	95.0	26.0	94.0	26.8	95.4	37.4	95.7	38.1
Louisiana .....	97.1	41.8	99.1	45.3	97.6	44.5	97.3	45.0
Maine .....	100.0	100.0	100.0	95.9	100.0	100.0	100.0	100.0
Maryland .....	97.1	24.2	96.6	15.8	97.3	24.2	96.5	16.2
Massachusetts .....	99.9	88.7	99.8	71.0	99.8	68.7	99.8	64.6
Michigan .....	72.7	13.2	68.3	10.8	70.0	12.9	87.2	12.5
Minnesota .....	99.6	44.5	95.2	41.8	98.9	55.5	97.0	53.2
Mississippi .....	96.2	35.6	95.9	48.0	96.3	47.6	95.4	49.3
Missouri .....	89.5	29.7	85.9	25.3	88.4	30.4	85.9	28.2
Montana .....	97.1	25.2	97.5	54.5	97.2	24.4	96.5	22.6
Nebraska .....	90.7	61.2	91.8	48.4	91.4	60.6	90.4	64.3
Nevada .....	90.6	12.5	90.8	14.1	89.0	12.5	82.1	14.7
New Hampshire .....	100.0	100.0	100.0	94.1	100.0	100.0	100.0	100.0
New Jersey .....	97.0	71.2	93.9	55.9	97.0	67.3	93.2	60.5
New Mexico .....	81.2	3.5	77.7	10.5	72.8	6.3	75.5	8.3
New York .....	80.2	30.1	80.7	29.4	81.0	32.4	79.5	29.5
North Carolina .....	99.2	98.3	95.0	72.5	99.2	97.8	99.0	94.8
North Dakota .....	71.6	25.6	70.0	23.9	70.0	27.6	67.5	25.4
Ohio .....	89.9	14.3	86.7	12.0	89.8	15.0	87.7	13.2
Oklahoma .....	89.9	29.8	91.3	42.0	90.6	30.0	87.5	23.2
Oregon .....	98.5	15.8	97.9	19.1	98.0	21.6	97.5	18.7
Pennsylvania .....	78.8	25.6	77.3	20.9	76.7	27.4	76.3	23.6
Rhode Island .....	100.0	9.6	100.0	14.3	100.0	9.7	100.0	9.7
South Carolina .....	98.9	76.1	98.2	70.4	98.8	71.1	98.9	70.2
South Dakota .....	86.9	67.2	81.8	55.1	85.2	62.8	83.3	59.2
Tennessee .....	95.8	54.8	95.7	55.6	97.7	59.4	97.1	59.6
Texas .....	91.3	24.9	89.0	30.7	87.1	27.4	84.2	28.7
Utah .....	100.0	11.6	100.0	15.3	100.0	10.4	100.0	11.9
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	93.6	13.6	93.6	28.8	93.4	38.2	90.9	40.0
Washington .....	92.1	38.4	92.2	44.2	92.0	40.2	88.7	40.6
West Virginia .....	55.3	R 2.8	54.9	21.4	57.9	18.8	55.5	15.9
Wisconsin .....	89.8	51.4	91.0	42.7	92.1	48.7	91.5	47.3
Wyoming .....	98.4	4.7	99.0	6.3	98.5	6.3	98.6	5.6
Total .....	R 82.5	R 27.9	85.1	32.7	86.0	32.3	85.0	32.8

See footnotes at end of table.

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

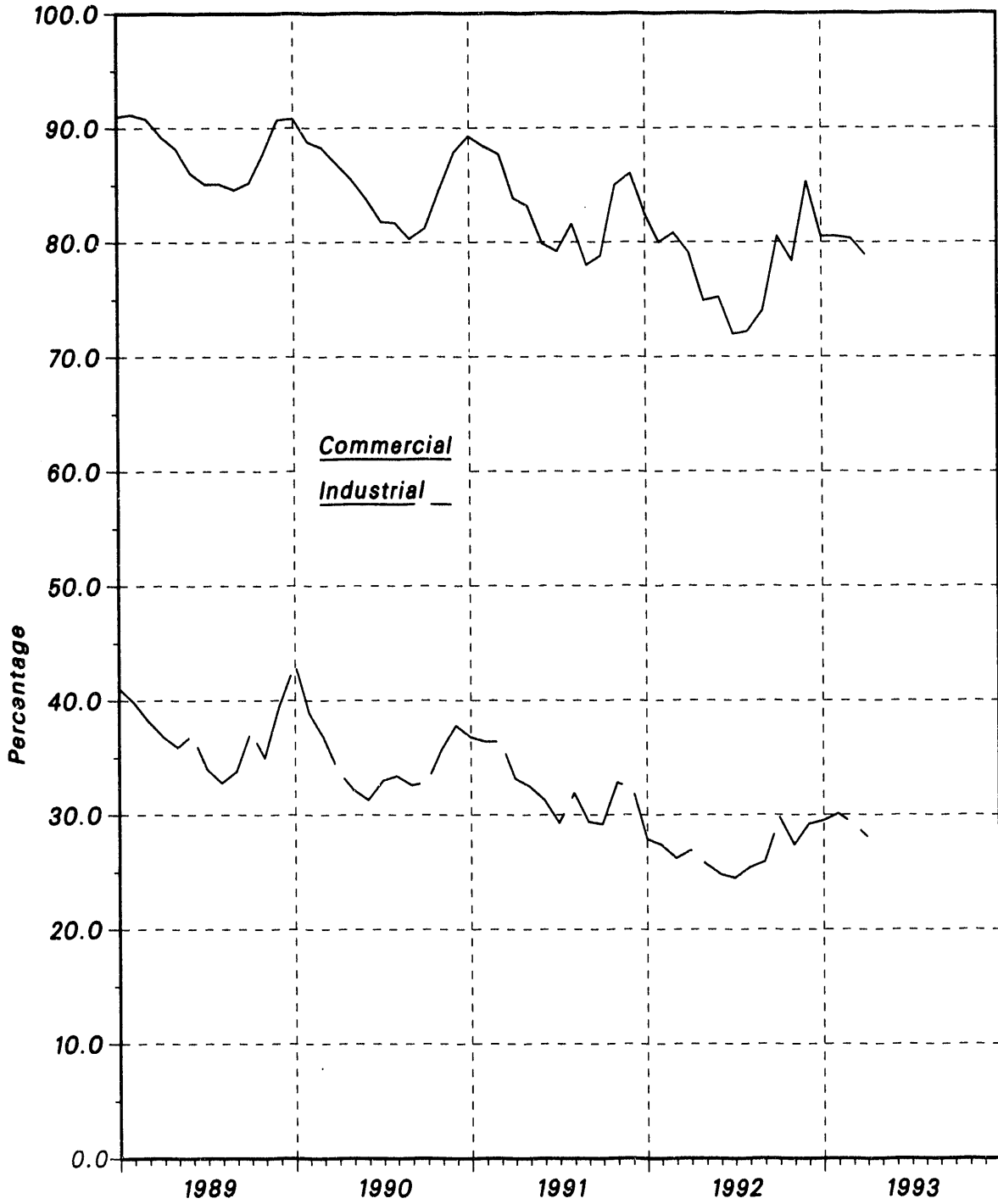
State	October 1991		September 1991		August 1991		July 1991	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	74.4	27.8	75.7	28.6	81.3	28.8	85.7	33.8
Alaska	100.0	64.7	100.0	57.3	100.0	70.9	100.0	71.4
Arizona	92.8	32.1	88.4	50.5	88.0	49.4	87.0	48.7
Arkansas	86.4	18.1	85.9	16.9	85.5	16.8	84.8	16.6
California	64.7	24.7	67.9	22.5	85.8	39.6	68.0	24.6
Colorado	92.3	33.6	93.6	34.2	93.8	40.5	93.6	37.2
Connecticut	85.8	57.0	77.8	52.8	77.0	49.6	76.1	56.3
Delaware	100.0	64.3	100.0	57.4	100.0	59.0	100.0	68.6
District of Columbia	91.0	—	90.5	—	89.3	—	86.6	—
Florida	97.7	33.6	98.1	36.8	97.8	39.7	97.9	41.7
Georgia	82.7	30.8	78.8	45.1	80.3	38.4	79.6	30.0
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	73.5	.2	82.9	.3	84.0	.2	84.6	.3
Illinois	54.7	12.8	55.0	10.1	43.4	7.2	39.4	6.4
Indiana	98.5	22.4	92.5	20.1	89.6	16.6	89.9	15.9
Iowa	96.2	19.2	95.9	23.6	91.5	25.1	94.8	24.8
Kansas	82.0	15.0	86.8	15.6	89.7	18.4	91.3	18.6
Kentucky	91.4	49.8	91.1	35.0	87.9	18.5	87.4	18.5
Louisiana	98.4	44.5	98.4	44.8	98.3	43.5	98.6	45.5
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	95.8	12.8	94.0	14.0	94.6	11.6	94.5	10.5
Massachusetts	99.8	67.9	99.5	65.3	99.6	60.1	99.6	61.8
Michigan	60.0	6.4	47.5	5.1	41.2	4.1	44.2	4.3
Minnesota	97.7	42.0	90.4	31.9	81.5	30.7	79.2	29.5
Mississippi	94.9	48.8	95.0	49.2	94.5	48.6	94.3	46.1
Missouri	75.5	19.8	75.0	17.6	72.2	15.6	71.1	14.5
Montana	96.3	57.2	95.8	59.1	95.7	69.6	95.8	63.0
Nebraska	86.0	46.0	85.8	40.0	95.1	40.8	96.3	35.3
Nevada	84.2	10.6	79.5	10.9	85.1	10.4	84.0	12.0
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	89.9	53.4	89.2	53.8	80.5	51.8	89.5	48.2
New Mexico	71.7	7.6	73.7	12.7	71.0	14.1	67.4	15.5
New York	75.0	23.9	73.1	22.7	75.0	24.3	76.8	22.8
North Carolina	97.9	88.2	85.0	51.9	86.2	50.6	84.4	46.7
North Dakota	48.6	15.0	49.6	10.0	47.5	15.2	49.6	14.2
Ohio	82.6	10.4	75.5	8.1	73.6	8.7	75.5	7.8
Oklahoma	81.2	23.8	86.8	35.7	85.5	34.1	87.0	44.7
Oregon	95.9	18.7	97.2	18.2	97.2	16.8	97.3	16.0
Pennsylvania	72.9	15.9	72.1	13.6	71.6	14.4	70.6	13.0
Rhode Island	100.0	9.7	100.0	16.2	100.0	14.3	100.0	13.3
South Carolina	97.3	72.4	97.6	68.8	97.7	66.7	97.3	69.1
South Dakota	76.7	51.0	74.5	63.0	74.3	54.3	74.3	51.8
Tennessee	95.3	52.7	93.9	54.0	93.8	50.6	93.8	50.2
Texas	80.0	24.6	86.8	27.8	90.0	32.3	90.7	26.9
Utah	100.0	12.8	100.0	13.8	100.0	13.6	100.0	13.7
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	92.5	29.4	90.2	25.7	89.4	26.7	91.2	20.1
Washington	85.2	45.2	85.5	39.9	87.2	42.0	88.2	35.9
West Virginia	45.1	21.4	36.4	28.0	33.8	23.5	30.9	20.0
Wisconsin	86.7	40.1	83.5	36.1	84.7	33.4	80.6	34.2
Wyoming	98.3	4.7	97.1	5.3	98.2	5.0	97.3	4.5
Total	78.8	29.2	78.0	29.4	81.6	31.9	79.2	29.3

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

Notes: Volumes of natural gas reported for the commercial and industrial sectors in this publication include data for both sales and deliveries for the account of others. This table shows the percent of the total State volume that represents natural gas sales to the commercial and industrial sectors. This information may be helpful in evaluating commercial and industrial price data which are based on sales data only. See Appendix C, Statistical Considerations, for a discussion of the computation of natural gas prices.

Source: Form EIA-857.

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



Source: Form EIA-857.

# **Appendix A**

## **Explanatory Notes**

## 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**

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



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

### ***Annual Data***

Data on nonhydrocarbon gases removed from marketed production--carbon dioxide, helium, hydrogen sulfide, and nitrogen--are reported by State agencies on the voluntary Form EIA-627. For 1991, of the 33 producing States, 23 reported data on nonhydrocarbon gases removed. The 23 States accounted for 59 percent of total 1991 gross withdrawals. Of the 23 States reporting nonhydrocarbon gases removed, 12 reported zero values: Alaska, Arizona, Arkansas, Illinois, Indiana, Maryland, Missouri, Nevada, New York, Oregon, South Dakota, and Virginia. The nine States reporting volumes greater than zero are Alabama, California, Colorado, Florida, Mississippi, New Mexico, North Dakota, Texas, and Wyoming. Two States (Kentucky and Nebraska) reported quantities unknown but considered insignificant. In addition, Kansas, Louisiana, Montana, and Oklahoma, which together accounted for 36 percent of gross withdrawals, did not report nonhydrocarbon gases removed separately. However, their gross withdrawal data excluded all or most of the nonhydrocarbon gases removed on leases. No estimates are made for States not reporting nonhydrocarbon gases removed.

### ***Preliminary Monthly Data***

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Three States report monthly data on nonhydrocarbon gases removed: Alabama, Texas, and Mississippi. Monthly data for California, Colorado, Florida, New Mexico, North Dakota, and Wyoming are estimated based on annual data reported on Form EIA-627. Nonhydrocarbon gases as an annual percentage of gross withdrawals reported by each of the six States is applied to each State's monthly gross withdrawal data to produce an estimate of nonhydrocarbon gases removed.

### ***Final Monthly Data***

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

For States not supplying monthly data on the EIA-627, final monthly data are calculated by proportionally allocating the differences between total annual data reported on the Form EIA-627 and the sum of monthly data (January-December).

## **Note 2. Supplemental Gaseous Fuels**

### ***Annual Data***

Annual data are published from Form EIA-176.

### ***Preliminary Monthly Data***

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

### ***Final Monthly Data***

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

## **Note 3. Production**

### ***Annual Data***

Natural gas production data are collected from 33 gas-producing States on Form EIA-627 which includes gross withdrawals, vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, marketed production (wet), and extraction loss. The U.S. Minerals Management Service (MMS) also supplies data on the quantity and value of natural gas production on the Gulf of Mexico and Outer Continental Shelf. No adjustments are made to the data.

### ***Estimated Monthly Data***

State marketed production data for a particular month are estimated if data are unavailable at the time of publication. The data are estimated based on final monthly data reported on the Form EIA-627 for the previous year.

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

for the previous year. State estimates for nonhydrocarbon gas removed, gas used for repressuring, and gas vented and flared are based on the ratio of the that item to gross withdrawals as reported on the EIA-627. These ratios are applied to the month's estimates for gross withdrawals to calculate figures for nonhydrocarbon gases removed, gas used for repressuring, and gas vented and flared. Estimates for gross withdrawal data are calculated from final monthly data filed on Form EIA-627 for the previous year.

### ***Preliminary Monthly Data***

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

### ***Final Monthly Data***

Final monthly data for 1991 are the sums of monthly data reported on the annual Form EIA-627, "Annual Quantity and Value of Natural Gas Report." For prior years, the differences between each State's annual production data reported on the EIA-627 and the sum of its monthly IOGCC reports for the year were allocated proportionally to the monthly IOGCC data.

## **Note 4. Imports and Exports**

### ***Annual Data and Final Monthly Data***

Annual and final monthly data are published from the annual Form FPC-14, which requires data to be reported by month for the calendar year.

### ***Preliminary Monthly Data - Imports***

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

### ***Preliminary Monthly Data - Exports***

Preliminary monthly export data are based on historical data from the Form FPC-14, informal industry contacts, and information gathered from natural gas industry trade publications. Preliminary monthly data are revised after publication of "U.S. Imports and Exports of Natural Gas" for the calendar year in which the report month falls.

## **Note 5. Consumption**

### ***All Annual Data***

All consumption data except electric utility data are from the Form EIA-857 and Form EIA-176. No adjustments are made to the data. Electric utility data are reported on Form EIA-759.

### ***Monthly Data***

All monthly data are considered preliminary until after publication of the *Natural Gas Annual*.

### ***Total Consumption***

#### **Preliminary Monthly Data**

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

#### **Final 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.

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

#### **Final Monthly Data**

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual consumption data from the Form EIA-176 to each month in proportion to monthly volumes reported in Form EIA-857.

#### ***Electric Utility Sector Consumption***

#### **All Monthly Data**

Monthly data published are from Form EIA-759.

#### ***Pipeline Fuel Consumption***

#### **Preliminary Monthly Data**

Preliminary data are estimated based on the pipeline fuel consumption as an annual percentage of total consumption from the previous year's Form EIA-176. This percentage is applied to each month's total consumption figure to compute the monthly estimate.

#### **Final Monthly Data**

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are based on the revised annual ratio of pipeline fuel consumption to total consumption from the Form EIA-176. This ratio is applied to each month's revised total consumption figure to compute final monthly pipeline fuel consumption estimates.

#### ***Lease and Plant Fuel Consumption***

#### **Preliminary Monthly Data**

Preliminary monthly data are estimated based on lease and plant fuel consumption as an annual percentage of marketed production. This percentage is applied to each month's marketed production figure to compute estimated lease and plant fuel consumption.

#### **Final Monthly Data**

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly data are based on a revised annual ratio of lease and plant fuel consumption to marketed production from Form EIA-176. This ratio is applied to each month's revised marketed production figure to compute final monthly lease and plant fuel consumption estimates.

### **Note 6. Extraction Loss**

#### ***Annual Data***

Extraction loss data are calculated from filings of Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." For a fuller discussion, see the *Natural Gas Annual*.

#### ***Preliminary Monthly Data***

Preliminary data are estimated based on extraction loss as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly extraction loss.

#### ***Final Monthly Data***

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual extraction loss data to each month based on its total natural gas marketed production.

### **Note 7. Natural Gas Storage**

#### ***Underground Natural Gas Storage***

All monthly data concerning underground storage are published from the EIA-191. A new EIA-191 became effective in January 1991. Injection and withdrawal data from the EIA-191 survey are adjusted to correspond to data from Form EIA-176 following publication of the *Natural Gas Annual*.

#### ***Underground and Liquefied Natural Gas Storage***

The final monthly and annual storage and withdrawal data for 1987 through 1991 shown in Table 2 include both underground and liquefied natural gas (LNG) storage. Underground storage data are obtained from

the EIA-191 and EIA-176 surveys in the manner described earlier. Annual data on LNG additions and withdrawals are taken from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying it to annual LNG data.

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

### **Annual Data**

Form EIA-627 requests State agencies to report the quantity and value of marketed production. When complete data are unavailable, the form instructs the State agency to report the available value and the quantity of marketed production associated with this value. A number of States reported volumes of production and associated values for other than marketed production. In addition, information for several States which were unable to provide data was obtained from Form EIA-176. It should be noted that Form EIA-176 reports a fraction of State production. The imputed value of marketed production in each State is calculated by dividing the State's reported value by its associated production. This unit price is then applied to the quantity of the State's marketed production to derive the imputed value of marketed production.

### **Initial Monthly Data**

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

### **Preliminary Monthly Data**

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

### **Final Monthly Data**

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

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

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

Data reported by the major interstate pipeline companies on Form FERC-11 generally reflect the timing of data entry, revision, and/or reclassification of accounts in the companies' accounting records in accordance with the FERC regulations and regulatory filings. Certain data may also be estimated. Consequently, the data reported and shown in Tables 8 through 12 for any given month may include or reflect out-of-period dollar or volume adjustments, restatements or revisions, or account reclassifications. The dollar amounts reported as paid or received and volumes reported as delivered or received may also include amounts paid, delivered, or received under contractual provisions such as 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 municipals handling small volumes of gas.

In 1990, revisions to the Form were approved that permitted collection of data on deliveries of natural gas for use as a vehicle fuel and detailed underground storage information. Data filed on the EIA-176 are no longer held confidential.

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

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

Each company and its parent company or subsidiaries were required to file if they met the survey specifications. The original mailing in 1992 for report year 1991 totaled 2,116 questionnaire packages. To this original mailing, 14 names were added and 34 were deleted as a result of the survey processing. Additions were the result of comparisons of the mailing list to other survey mailing lists. Deletions resulted from post office returns and determinations that companies were out of business, sold, or not within the scope of the survey. After all updates, the survey universe was 2,096 responses from approximately 1,800 companies.

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

### ***Summary of Form EIA-176 Data Reporting Requirements***

The EIA-176 is a multiline schedule for reporting all supplies of natural gas and supplemental gaseous fuels and their disposition within the State indicated. Respondents file completed forms with EIA in Washington, DC. Data for the report year are due by April 1 of the following year. Extensions of the filing deadline for up to 45 days are granted to any respondent on request.

All natural gas and supplemental gaseous fuels volumes are reported on a physical custody basis in thousand cubic feet (Mcf), and dollar values are reported to the nearest whole dollar. All volumes are reported at 14.73 pounds per square inch absolute pressure (psia) and 60 degrees Fahrenheit.

### ***Routine Form EIA-176 Edit Checks***

A series of manual and computerized edit checks are used to screen the Form EIA-176. The edits performed include validity, arithmetic, and analytical checks.

The incoming forms are reviewed prior to keying. This prescan determines if the respondent identification (ID) number and the company name and address are correct, if the data on the form appear complete and reasonable, and if the certifying information is complete.

Manual checks on the data are also made. Each form is prescanned to determine that data were reported on the correct lines. The flow of gas through interstate pipelines is checked at the company level to ensure that each delivery from a State is matched with a corresponding receipt in an adjoining State.

After the data are keyed, computer edit procedures are performed. Edit programs verify the report year, State code, and arithmetic totals. Further tests are made to ensure that all necessary data elements are present and that the data are reasonable and internally consistent. The computerized edit system produces error listings with messages for each failed edit test. When problems occur, respondents are contacted by telephone and required to file amended forms with corrected data.

### ***Other EIA Publications Referencing Form EIA-176***

Data from Form EIA-176 are also published in the *Natural Gas Annual*.



**Figure B1. Form EIA-176**

EIA-176 (Revised 1991)

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

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

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

This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to report may result in criminal fines, civil penalties, and other sanctions as provided by law. See Section VI of the instructions for confidentiality statement. Public reporting burden for this collection of information is estimated to average 19.8 hours per response, including the time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Office of Statistical Standards, 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 <input type="checkbox"/>	4.0 Resubmittal <input type="checkbox"/>	Date:
5.0 Company status, name, and/or address change or correction. (Check appropriate box)					
a. <input type="checkbox"/> Name and address on mailing label are correct. b. <input type="checkbox"/> Change name, attention line, and/or mail address as indicated below. c. <input type="checkbox"/> Company was sold to, or merged with, company entered below. d. <input type="checkbox"/> Company went out of business. Customer accounts taken over by company entered below. e. <input type="checkbox"/> Other changes, corrections, or comments: _____					
5.1 Change mail address to:					
a. Company Name: _____ b. Operations in (State): _____ c. Street or Post Office Box: _____ d. City, State, Zip Code: _____ e. Attention: _____					
6.0 Contact person:		Telephone	Area		
Name: _____		Number:	Code _____	No. _____	Ext. _____

**PART II: CERTIFICATION AND DISCLOSURE STATEMENT**

1.0 I certify that (Check appropriate box):	
a. <input type="checkbox"/> The information provided herein and appended hereto is true and accurate or, where indicated on the form, reasonable estimates to the best of my knowledge. b. <input type="checkbox"/> My company does not meet any of the criteria set forth in Section II, "Who must submit," of the instructions and is therefore not required to complete and submit a Form EIA-176 for the report State.	
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 <input type="checkbox"/>	4.0 Resubmittal <input type="checkbox"/>
				Date: <input type="text"/>

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

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

**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				

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

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 <input type="checkbox"/>	4.0 Resubmittal <input type="checkbox"/>	Date: _____
<b>PART VI: CONTINUATION SHEET</b>					Sheet _____ of _____
<b>(To be used only if insufficient space was provided on Part IV and/or Part V)</b>					
Supply (Continued)		Volume (Mcf at 14.73 psia)	e or f	Cost or Revenue (Dollars)	e 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)					
_____					
_____					
_____					



**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

<b>PART I: IDENTIFICATION</b>			
1.0 Control No.	2.0 Company Name:	3.0 Report State	4.0 Resubmittal EIA <input type="checkbox"/> <input type="checkbox"/> Date: <input type="checkbox"/>
5.0 Company status, name, and/or address change or correction. (Check appropriate box.)			
a. <input type="checkbox"/> Name and address on mailing label are correct. b. <input type="checkbox"/> Change name, attention line, and/or mail address as indicated below. c. <input type="checkbox"/> Company was sold to, or merged with, company entered below. d. <input type="checkbox"/> Company went out of business. Customer accounts taken over by company entered below. e. <input type="checkbox"/> 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. _____

<b>PART II: CERTIFICATION AND DISCLOSURE STATEMENT</b>	
1.0 I certify that (Check appropriate box):	
a. <input type="checkbox"/> The information provided herein and appended hereto is true and accurate or, where indicated on the form, reasonable estimates to the best of my knowledge. b. <input type="checkbox"/> My company does not meet any of the criteria set forth in Section II, "Who must submit," of the instructions and is therefore not required to complete and submit a Form EIA-176 for the report State.	
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 <input type="checkbox"/>	4.0 Resubmittal Date: <input type="text"/>
-----------------	-------------------	------------------	---------------------------------	---

PART III: TYPE OF COMPANY AND GAS ACTIVITIES OPERATED IN THE REPORT STATE																											
<p>1.0 Type of Company (check one)</p> <p>a. <input type="checkbox"/> Investor owned distributor</p> <p>b. <input type="checkbox"/> Municipally owned distributor</p> <p>c. <input type="checkbox"/> Interstate pipeline</p> <p>d. <input type="checkbox"/> Intrastate pipeline</p> <p>e. <input type="checkbox"/> Storage operator</p> <p>f. <input type="checkbox"/> SNG plant operator</p> <p>g. <input type="checkbox"/> Integrated oil and gas</p> <p>h. <input type="checkbox"/> Producer</p> <p>i. <input type="checkbox"/> Gatherer</p> <p>j. <input type="checkbox"/> Processor</p> <p>k. <input type="checkbox"/> Other (specify) _____</p>	<p>2.0 Gas Activities Operated On-system Within the Report State (check all that apply)</p> <table style="width:100%; border:none;"> <tr> <td style="width:33%;">a. <input type="checkbox"/> Produced Natural Gas</td> <td style="width:33%;">m. <input type="checkbox"/> Delivered for Resale</td> </tr> <tr> <td>b. <input type="checkbox"/> Gathered</td> <td>n. <input type="checkbox"/> Delivered directly to consumers</td> </tr> <tr> <td>c. <input type="checkbox"/> Processed</td> <td>o. <input type="checkbox"/> Other (specify) _____</td> </tr> <tr> <td>d. <input type="checkbox"/> Purchased</td> <td></td> </tr> <tr> <td>e. <input type="checkbox"/> Transported Interstate</td> <td></td> </tr> <tr> <td>f. <input type="checkbox"/> Transported Intrastate</td> <td></td> </tr> <tr> <td>g. <input type="checkbox"/> Stored Underground</td> <td></td> </tr> <tr> <td>h. <input type="checkbox"/> Stored LNG</td> <td></td> </tr> <tr> <td>i. <input type="checkbox"/> Injected Propane-air</td> <td></td> </tr> <tr> <td>j. <input type="checkbox"/> Produced SNG</td> <td></td> </tr> <tr> <td>k. <input type="checkbox"/> Imported</td> <td></td> </tr> <tr> <td>l. <input type="checkbox"/> Exported</td> <td></td> </tr> </table>			a. <input type="checkbox"/> Produced Natural Gas	m. <input type="checkbox"/> Delivered for Resale	b. <input type="checkbox"/> Gathered	n. <input type="checkbox"/> Delivered directly to consumers	c. <input type="checkbox"/> Processed	o. <input type="checkbox"/> Other (specify) _____	d. <input type="checkbox"/> Purchased		e. <input type="checkbox"/> Transported Interstate		f. <input type="checkbox"/> Transported Intrastate		g. <input type="checkbox"/> Stored Underground		h. <input type="checkbox"/> Stored LNG		i. <input type="checkbox"/> Injected Propane-air		j. <input type="checkbox"/> Produced SNG		k. <input type="checkbox"/> Imported		l. <input type="checkbox"/> Exported	
a. <input type="checkbox"/> Produced Natural Gas	m. <input type="checkbox"/> Delivered for Resale																										
b. <input type="checkbox"/> Gathered	n. <input type="checkbox"/> Delivered directly to consumers																										
c. <input type="checkbox"/> Processed	o. <input type="checkbox"/> Other (specify) _____																										
d. <input type="checkbox"/> Purchased																											
e. <input type="checkbox"/> Transported Interstate																											
f. <input type="checkbox"/> Transported Intrastate																											
g. <input type="checkbox"/> Stored Underground																											
h. <input type="checkbox"/> Stored LNG																											
i. <input type="checkbox"/> Injected Propane-air																											
j. <input type="checkbox"/> Produced SNG																											
k. <input type="checkbox"/> Imported																											
l. <input type="checkbox"/> Exported																											

PART IV: SUPPLY OF NATURAL AND SUPPLEMENTAL GAS RECEIVED WITHIN OR TRANSPORTED INTO REPORT STATE									
<p>2.0 On-system purchases received:</p> <p>2.1 From producers, gatherers, and/or gas processors .....</p> <p>2.2 From pipeline, distribution, and/or storage operators .....</p> <p>2.3 From synthetic natural gas plants or SNG pipeline .....</p> <p>7.0 Other sources of supply (specify): (Source and/or kind of fuel)</p> <table style="width:100%; border:none;"> <tr> <td style="width:40%; border: 1px solid black; height: 15px;"></td> <td style="width:10%; border: 1px solid black; height: 15px;"></td> <td style="width:10%; border: 1px solid black; height: 15px;"></td> <td style="width:10%; border: 1px solid black; height: 15px;"></td> <td style="width:10%; border: 1px solid black; height: 15px;"></td> </tr> </table> <p>(Continue on Part VI, if more space is needed)</p> <p>8.0 Total supply within report State .....</p>						Volume (Mcf at 14.73 psia)	e or f	Cost (Dollars)	e or f

PART V: DISPOSITION OF NATURAL AND SUPPLEMENTAL GAS WITHIN OR TRANSPORTED OUT OF REPORT STATE																																		
<p>9.0 Used in pipeline, storage and/or distribution operations .....</p> <p>5.4 Delivered directly to consumers:</p> <table style="width:100%; border:none;"> <tr> <td style="width:35%; border:none;">(Type of transaction and consumer)</td> <td style="width:15%; border:none;">(Number of consumers)</td> <td style="width:10%; border: 1px solid black;"></td> <td style="width:10%; border: 1px solid black;"></td> <td style="width:10%; border: 1px solid black;"></td> </tr> <tr> <td style="border:none;">5.4.1 Residential sales .....</td> <td style="border:none;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border:none;">5.4.2 Commercial sales .....</td> <td style="border:none;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border:none;">5.4.3 Industrial sales .....</td> <td style="border:none;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border:none;">5.4.4 Electric utility sales .....</td> <td style="border:none;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> </tr> </table> <p>6.0 Average heat content of gas delivered directly to consumers (Btu per cubic foot) ..... <input style="width:100px;" type="text" value="Btu"/></p> <p>10.0 Other disposition (specify)</p> <table style="width:100%; border:none;"> <tr> <td style="width:40%; border: 1px solid black; height: 15px;"></td> <td style="width:10%; border: 1px solid black; height: 15px;"></td> <td style="width:10%; border: 1px solid black; height: 15px;"></td> <td style="width:10%; border: 1px solid black; height: 15px;"></td> <td style="width:10%; border: 1px solid black; height: 15px;"></td> </tr> </table> <p>(Continue on Part VI, if more space is needed)</p> <p>11.0 Total disposition accounted for .....</p> <p>12.0 Unaccounted for gas supply (+) or disposition (-) .....</p>	(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 .....										Volume (Mcf at 14.73 psia)	e or f	Cost or Revenue (Dollars)	e or f
(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 .....																																		





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

### ***Survey Design***

Beginning with 1980, natural gas production data previously obtained on an informal basis from State conservation agencies were collected on Form EIA-627. This form was designed by EIA to collect annual natural gas production data from the appropriate State agencies under a standard data reporting system within the limits imposed by the diversity of data collection systems of the various producing States. The form was redesigned in 1990 to collect monthly breakdowns of all annual data elements. Data are not considered proprietary. It was also designed to avoid duplication of effort in collecting production and value data by producing States and to avoid an unnecessary respondent burden on gas and oil well operators.

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

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

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

Form EIA-627 is a multipart annual form that collects data on the monthly and annual production volume of natural gas (including gross withdrawals from both gas and oil wells); volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on leases; marketed production; the value of marketed production; and the number of producing gas wells.

Respondents are asked to report all volumes in million cubic feet at the State's standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

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

Each filing of Form EIA-627 is manually checked for reasonableness and mathematical accuracy. Information on the forms is compared to totals of monthly data reported to the Interstate Oil and Gas Compact Commission (see Appendix B, "Data Sources"). Volumes are converted, as necessary, to a standard 14.73 psia pressure base. Reasonableness of data is assessed by comparing reported data to the previous year's data. State agencies are contacted by telephone to correct errors. Amended filings or resubmissions are not a requirement, since participation in the survey is voluntary.

### ***Other EIA Publications Referencing Form EIA-627***

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

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

### ***Survey Design***

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

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

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

Figure B3. Form EIA-627

EIA-627 (Revised 1982)

U.S. DEPARTMENT OF ENERGY  
Energy Information Administration

Form 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

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 VOLUME; (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. 20586, 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)					
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.

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

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

UNDERGROUND GAS STORAGE REPORT

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 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: 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.

EIA-191 (Revised 1991)

I. RESPONDENT IDENTIFICATION DATA

Control (ID) No. \_\_\_\_\_  
 Name.....  
 Street or Post Office Box: .....  
 City, State, Zip Code: .....

Person to contact if questions arise concerning this report:		Tel. No. (Include Area Code and Extension)		Report Period		Mo	Yr
GAS STORAGE DATA (All volumes in Mcf - 14.73 psia - 60°F)		State		Storage Field Capacity			
Storage Field Name		Location		County			
Reservoir Name(s)		Base Gas		Working Gas		Total Gas In Storage	
<input type="checkbox"/> Estimated <input type="checkbox"/> Actual <input type="checkbox"/> Revised						Injections	
Respondent's Gas in Field Operated by Respondent						Withdrawals	
Gas Belonging to Others in Field Operated by Respondent							
Total Gas (Sum of A and B)							
				Peak Day Withdrawals (in Mcf)		Date <input type="checkbox"/>	
Storage Field Name		State		Storage Field Capacity			
Reservoir Name(s)		Location		County		Maximum Deliverability (Mcf/d)	
<input type="checkbox"/> Estimated <input type="checkbox"/> Actual <input type="checkbox"/> Revised						Total Gas In Storage	
Respondent's Gas in Field Operated by Respondent						Injections	
Gas Belonging to Others in Field Operated by Respondent						Withdrawals	
Total Gas (Sum of A and B)							
				Peak Day Withdrawals (in Mcf)		Date <input type="checkbox"/>	

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 to the survey. The sample

was selected independently for each of the 50 States and the District of Columbia. Each selected company is required to complete and file the Form EIA-857 on a monthly basis. Initial response statistics on a monthly basis are as follows: responses received by due date, approximately 90 percent, and responses received after follow-up, 100 percent.

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

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

### ***Summary of Form EIA-857 Data Reporting Requirements***

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

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

### ***Routine Form EIA-857 Edit Checks***

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

Figure B7. Form FPC-14

FEDERAL ENERGY REGULATORY COMMISSION  
Washington, D.C. 20426

ANNUAL REPORT FOR  
IMPORTERS AND EXPORTERS OF NATURAL GAS  
GENERAL INSTRUCTIONS

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

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

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

SCHEDULE I - GASEOUS PHASE NATURAL GAS

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

Report for (Check one) <input type="checkbox"/> Import <input type="checkbox"/> Export	Foreign Seller or Foreign Buyer
---	---------------------------------

U.S. Entry or Exit Point	Transporter	Docket Number(s)
--------------------------	-------------	------------------

Line No.	Month (a)	QUANTITY RECEIVED OR SHIPPED AT THE ENTRY OR EXIT POINT				Amount Paid or Received at Entry or Exit Point (f)
		Peak Day		Mcf (d)	MMBtu (e)	
		Date (b)	Mcf (c)			
1	January					
2	February					
3	March					
4	April					
5	May					
6	June					
7	July					
8	August					
9	September					
10	October					
11	November					
12	December					
13	TOTAL					

ANNUAL WEIGHTED AVERAGE IN Btu's PER CUBIC FOOT (Line 13: [Column (e) ÷ (Column (d) X 1000)]) _____	ANNUAL WEIGHTED AVERAGE PRICE IN CENTS PER MMBtu (Line 13: Column (f) ÷ Column (e) X 100) _____
--	--

FPC-14 (8-82)

**Figure B8. Form EIA-857**

EIA -857 (Revised 1991)

U.S. Department of Energy  
Energy Information Administration

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

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

This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to report may result in criminal fines, civil penalties, and other sanctions as provided by law. See section VI of the instructions for the confidentiality statement. Public reporting burden for this collection of information is estimated to average 4 hours per response, including time of reviewing instruction, 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		Revised Report Indicator
	03 Mo.	Yr.	
	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.)
<b>SECTION II — Footnotes</b>			

**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, April 1993**

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama .....	388	940	1,211	1,581	0.14	0.46	0.09
Alaska .....	0	0	0	0	—	—	—
Arizona .....	37	12	0	38	.04	.02	—
Arkansas .....	36	65	88	115	.02	.05	.18
California .....	413	70	2,059	2,102	.04	.01	.09
Colorado .....	39	16	0	42	.01	—	—
Connecticut .....	0	0	0	0	—	—	—
Delaware .....	0	0	0	0	—	—	—
District of Columbia .....	0	0	0	0	—	—	—
Florida .....	46	98	1,766	1,789	.28	.09	.60
Georgia .....	771	753	2,492	2,715	.12	.15	1.02
Hawaii .....	0	0	0	0	—	—	—
Idaho .....	0	0	0	0	—	—	—
Illinois .....	5,724	915	816	5,854	.15	.41	.53
Indiana .....	474	201	2,526	2,578	.06	.20	.35
Iowa .....	437	383	131	596	.08	.10	.29
Kansas .....	761	10,248	9,502	13,996	.29	1.62	5.12
Kentucky .....	750	648	1,000	1,409	.22	.11	1.38
Louisiana .....	174	62	460	496	.25	.10	.01
Maine .....	0	0	0	0	—	—	—
Maryland .....	49	25	10	56	.01	.03	.16
Massachusetts .....	45	183	367	412	.12	.08	.15
Michigan .....	1,274	781	1,574	2,163	.14	.15	.12
Minnesota .....	504	280	579	817	.41	.33	.15
Mississippi .....	244	1,015	217	1,086	.33	3.57	.09
Missouri .....	359	255	281	523	.24	.17	.29
Montana .....	5	1	0	5	.02	.01	—
Nebraska .....	124	129	213	278	.04	.03	.14
Nevada .....	0	0	0	0	—	—	—
New Hampshire .....	0	0	0	0	—	—	—
New Jersey .....	0	0	0	0	—	—	—
New Mexico .....	275	350	51	448	.06	.13	—
New York .....	3,152	1,239	804	3,481	.24	.33	.14
North Carolina .....	59	115	133	186	.06	.08	.18
North Dakota .....	0	0	0	0	—	—	—
Ohio .....	753	742	8,679	8,744	.11	.17	.71
Oklahoma .....	202	1,018	20	1,038	.02	.05	—
Oregon .....	0	0	0	0	—	—	—
Pennsylvania .....	307	145	2,259	2,284	.04	.03	.63
Rhode Island .....	0	0	0	0	—	—	—
South Carolina .....	424	200	289	551	.11	.09	.20
South Dakota .....	0	0	0	0	—	—	—
Tennessee .....	406	279	600	777	.22	.13	.22
Texas .....	1,396	3,620	36,630	36,835	.30	.13	.38
Utah .....	0	0	0	0	—	—	—
Vermont .....	0	0	0	0	—	—	—
Virginia .....	158	73	1,035	1,050	.45	.67	.24
Washington .....	0	0	0	0	—	—	—
West Virginia .....	908	667	290	1,163	1.28	.11	.13
Wisconsin .....	589	1,651	1,424	2,258	.36	.43	.37
Wyoming .....	30	18	353	354	.03	—	.03
U.S. Totals .....	7,181	11,376	39,286	41,525	.10	.15	.34

— = 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:

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

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

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

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

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

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

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

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

## **NGM Feature Articles**

*January 1991*

*March 1990*

**Take-or-Pay Settlements**

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

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

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

*February 1991*

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

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

*April 1990*

**The Outlook for Natural Gas**

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

*March 1991*

**Natural Gas Transportation Services: An Update**

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

*May 1990*

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

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

*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.)

*June 1990*

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

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

*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.)

*July 1990*

**Resurgence in Natural Gas Wellhead Productivity**

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

*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.)

*October 1990*

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

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

## ***July 1991***

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

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

## ***August 1991***

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

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

## ***September 1991***

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

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

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

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

## ***March 1992***

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

(Discusses the revision errors for natural gas data.)

## ***August 1992***

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

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

## ***November 1992***

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

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

## ***December 1992***

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

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

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

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

## ***March 1993***

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

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

### **Natural Gas Productive Capacity**

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

## ***April 1993***

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

(Discusses the revision errors for natural gas data.)



# **Appendix E**

## **Technical Contacts**

# Appendix E

## Technical Contacts

Section	Tables		Principal Data Sources	Technical Contact
Summary Statistics: Natural Gas Production and Consumption	1, 2, 3	Monthly:	Interstate Oil and Gas Compact Commission (IOGCC)	Donna Dunston (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: Annual:	EIA computations Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"	Margo Natof (202) 586-6303
Supplemental Gaseous Fuels	2	Monthly: Annual:	EIA computations Form EIA-176, "Annual Report of Natural and Supplemental Gas Sup- ply and Disposition"	Donna Dunston (202) 586-6135 Margo Natof (202) 586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Form FPC-14, "Annual Reports for Importers and Exporters of Natural Gas"	Norman Crabtree (202) 586-6181
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 Pipe- line Company Monthly Statement"	James Keeling (202) 586-6107
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-627, "Annual Quantity and Value of Natural Gas Report"	Donna Dunston (202) 586-6135
Electric Utility	4	Monthly:	Form FPC-423, "Cost and Quality of Fuels for Electric Power Plants"	Roy Kass (202) 586-4790
Summary of Natural Gas Im- ports and Exports	5, 6	Monthly:	Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas"	Norman Crabtree (202) 586-6181
Producer Related Activities: Natural Gas Production	7	Monthly:	Interstate Oil and Gas Compact Commission (IOGCC)	Donna Dunston (202) 586-6135
Interstate Pipeline Activities:	8, 9, 10, 11, 12	Monthly:	Form FERC-11, "Natural Gas Pipe- line Company Monthly Statement"	James Keeling (202) 586-6107
Underground Storage:	13, 14, 15, 16, 17	Monthly:	Forms FERC-8 and EIA-191, "Un- derground 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			
All Consumers	22			
Average Price to:				

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

# Glossary

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Imports:** Natural gas received in the Continental United States (including Alaska) from a foreign country.

**Independent Producers:** Any person who is engaged in the production or gathering of natural gas and who sells natural gas in interstate commerce for resale but who is not engaged in the transportation of natural gas (other than gathering) by pipeline in interstate commerce.

**Industrial Consumption:** Natural gas used by manufacturing and mining establishments for heat, power, and chemical feedstock.

**Interstate Companies:** Natural gas pipeline companies subject to FERC jurisdiction.

**Intransit Deliveries:** Redeliveries to a foreign country of foreign gas received for transportation across U.S. territory and deliveries of U.S. gas to a foreign country for transportation across its territory and redelivery to the United States.

**Intransit Receipts:** Receipts of foreign gas for transportation across U.S. territory and redelivery to a foreign country and redeliveries to the United States of U.S. gas transported across foreign territory.

**Intrastate Companies:** Companies not subject to FERC jurisdiction.

**Lease and Plant Fuel:** Natural gas used in well, field, lease operations and as fuel in natural gas processing plants.

**Liquefied Natural Gas (LNG):** Natural gas that has been liquefied by reducing its temperature to minus 260 degrees Fahrenheit at atmospheric pressure.

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

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

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

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

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

**Nonhydrocarbon Gases:** Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

**Onsystem Sales:** Sales to customers where the delivery point is a point on, or directly interconnected with, a transportation, storage, and/or distribution system operated by the reporting company.

**Pipeline Fuel:** Gas consumed in the operation of pipelines, primarily in compressors.

**Repressuring:** The injection of gas into oil or gas formations to effect greater ultimate recovery.

**Residential Consumption:** Gas used in private dwellings, including apartments, for heating, cooking, water heating, and other household uses.

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

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

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

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

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

**Underground Gas Storage Reservoir Capacity:** Interstate company reservoir capacities are those 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.

**DATE  
FILMED**

**9/21/93**

