Natural Gas Monthly

October 1991

EIA Energy Information Administration

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Monthly Energy Review, updated the last week of the month

Short Term Energy Outlook, updated 60 days after the end of the quarter.

Winter Fuels Report, updated on Thursdays at 5:00 p.m.

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, James M. Todaro, (202) 586-6305, or Eva M. Fleming, (202) 586-6113. Specific technical questions may be referred to the appropriate persons listed in Appendix E.

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

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

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

All natural gas volumes are reported at a pressure base of 14.73 pounds per square inch absolute (psia) and at 60 degrees Fahrenheit.

Common Abbreviations Used in the Natural Gas Monthly

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

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Overview

Introduction

Through the first eight months of the year, both gross withdrawals and total production are running very close to last year. Production for the period is 10 billion cubic feet less than in 1990 while gross withdrawals is currently running 42 billion cubic feet lower over this timeframe. Consumption, however, according to preliminary data through August, is 80 billion cubic feet or 1 percent greater than last year. The supply source for most of this increase appears to be imports, which have increased continually since 1986. Imports of Canadian gas through August are 9 percent greater than last year, and over the same period are running more than double compared to 1986. Many factors have contributed to this growth. Some of the most prominent are more active Canadian marketers, competitive prices, point of entry near large U.S. markets, and the growth of open-access transportation facilities.

Supply and Disposition

The Energy Information Administration (EIA) 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 1,516 billion cubic feet in August (Table 1). This is a 1 percent increase from July's total of 1,504 billion cubic feet and slightly higher than in August 1990.

The total gas supply available for disposition in August was an estimated 1,578 billion cubic feet, 4 percent less than in August 1990 (Table 2). The August 1991 total includes 9 billion cubic feet of supplemental fuel supplies, 131 billion cubic feet of imported gas, and 54 billion cubic feet withdrawn from storage.

On the disposition side, the consumption of 1,315 billion cubic feet was 2 percent greater than in July 1991 and virtually the same as August 1990 (Table 2). Total disposition included 256 billion cubic feet of gas injected into underground storage reservoirs and exports of 7 billion cubic feet.

Consumption

Data for the four major end-use sectors, as shown in Table 3, indicate that the total amount of gas delivered to all consumers increased 8 percent to 1,149 billion cubic feet in July, from 1,063 billion cubic feet in June (Table 3). Consumption in the industrial sector increased from 536 billion cubic feet in June 1991 to 566 billion cubic feet in July 1991, an increase of 6 percent.

The electric utility sector maintained its strong consumption level, using 330 billion cubic feet, 27 percent higher than June 1991, but 1 percent greater than in July 1990.

Both residential sector and the commercial sector consumed 127 billion cubic feet in July 1991. These totals are 1 percent and 3 percent higher than in July 1990.

Prices

In July 1991, major interstate pipeline companies paid an average of \$1.87 per thousand cubic feet for gas purchased from domestic producers, a 6 percent decrease from June's \$1.98 total, and a 7-percent decrease from the \$2.00 paid in July 1990 (Table 4). In July 1991, these pipeline companies paid \$2.13 per thousand cubic feet for imported gas. Distributors paid an average \$2.76 per thousand cubic feet for gas at the city gate in July. This is 3 percent less than these consumers paid in June 1991 and 9 percent less than they paid in July 1990. Residential consumers paid \$6.97 per thousand cubic feet in July, 4 percent more than the \$7.23 per thousand cubic feet paid in June, and 3 percent more than they paid in July 1990. Commercial consumers paid \$4.49 per thousand cubic feet in July, 7 percent less than the \$4.81 paid in June, and slightly higher than the \$4.47 paid in July 1990. Industrial consumers paid \$2.28 per thousand cubic feet in July, a 2-percent decrease from June's price of \$2.33 and a 7-percent reduction from July's total in 1990. Electric utilities paid an average of \$1.94 per thousand cubic feet in June. This is a decrease of 3 percent from the \$2.01 per thousand cubic feet they paid in May 1991.

Table 1. Summary of Natural Gas Production in the United States, 1985-1991
(Billion Cubic Feet)

Year and Month	Gross Withdrawals	Repressuring	Nonhydrocarbon Gases Removed ^a	Vented and Flared	Marketed Production (Wet)	Extraction Loss	Total Dry Gas Production ^b
1985 Total	19,534	1,915	326	95	17,198	816	16,382
1986 Total	19,063	1,838	337	98	16,791	800	15,991
1987 Total	20,056	2,208	376	124	17,349	812	16,536
1988 Total	20,922	2,478	460	143	17,841	816	17,026
1989							
January	1,866	219	34	11	1,602	70	1,532
February	1,712	193	29	11	1,479	64	1,415
March	1,809	197	31	13	1,568	68	1,500
April	1,737	203	29	12	1,493	65	1,428
May	1,770	214	31	12	1,513	66	1,447
June	1,683	192	28	12	1,451	63	1,388
July	1,720	199	30	12	1,479	64	1,415
August	1,715	207	28	12	1,468	63	1,404
September	1,644	207	28	12	1,397	60	1,337
October	1,719	211	29	12	1,467	64	1,403
November	1,784	214	31	12	1,527	66	1,461
December	1,850	219	33	12	1,586	72	1,514
Total	21,009	2,475	362	142	18,029	785	17,245
1990							
January	1,936	205	32	15	1,684	79	1,605
February	1,714	180	27	9	1,498	70	1,428
March	1,836	207	30	10	1,589	74	1,515
April	1,739	201	29	10	1,499	70	1,429
May	1,774	203	35	11	1,525	71	1,454
June	1,705	191	29	10	1,475	69	1,406
July	1,729	194	30	10	1,495	70	1,425
August	1,743	196	31	10	1,506	70	1,436
September	1,670	189	30	10	1,441	67	1,374
October	1,783	197	31	10	1,545	70	1,475
November	1,815	203	32	11	1,569	73	1,496
December	1,901	213	34	11	1,643	77	1,566
Total	21,345	2,379	370	127	18,469	860	17,609
1991							
January	1,902	213	34	11	1,644	72	1,572
February	1,722	192	30	10	1,450	65	1,425
March	1,823	204	32	11	1,576	69	1,507
April	1,742	195	31	10	1,506	66	1,440
May	1,755	196	31	10	1,518	66	1,452
June	R 1,697	R 190	30	10	R 1,467	R 64	R 1,403
July	E 1,740	E 195	E 31	E 10	E 1,504	E 65	E 1,439
August	E 1,753	E 196	E 31	E 10	E 1,516	E 66	E 1,450
1991 YTD	14,134	1,581	250	82	12,222	533	11,688
1990 YTD	14,176	1,577	243	85	12,271	573	11,698
1989 YTD	14,012	1,624	240	95	12,052	523	11,529

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

^b Equal to marketed production (wet) minus extraction loss

E = Estimated Data

R = Revised Data

Notes: Data for 1985 through 1989 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 1989*, Table 7 and EIA estimates, January 1990 through current month. See 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, 1985-1991
(Billion Cubic Feet)

Year and Month	Supply					Disposition			
	Total Dry Gas Production	Withdrawals from Storage ^a	Supplemental Gaseous Fuels	Imports	Balancing Item ^b	Total Supply/Disposition ^c	Additions to Storage ^a	Exports	Consumption ^d
1985 Total	16,382	2,397	126	950	-356	19,499	2,163	55	17,281
1986 Total	15,991	1,837	113	750	-427	18,265	1,984	61	16,221
1987 Total	16,536	1,905	101	993	-359	19,175	1,911	54	17,211
1988 Total	17,026	2,270	101	1,294	-376	20,315	2,211	74	18,030
1989									
January	1,532	426	11	119	-4	2,084	53	7	2,024
February	1,415	614	10	110	-101	2,048	32	7	2,009
March	1,500	369	10	113	72	2,064	106	11	1,947
April	1,428	138	9	110	93	1,777	184	11	1,582
May	1,447	44	8	108	77	1,684	326	8	1,350
June	1,388	20	7	104	72	1,591	381	9	1,201
July	1,415	29	8	101	55	1,608	377	9	1,222
August	1,404	29	8	108	39	1,588	362	9	1,217
September	1,337	39	7	117	16	1,516	325	9	1,182
October	1,403	96	9	123	-57	1,574	225	10	1,339
November	1,461	227	9	123	-139	1,681	105	8	1,568
December	1,514	821	12	145	-275	2,217	52	8	2,157
Total	17,245	2,850	107	1,382	-149	21,435	2,529	107	18,799
1990									
January	1,605	339	11	140	R 132	R 2,227	91	14	R 2,122
February	1,428	324	9	118	R 31	R 1,910	70	8	R 1,832
March	1,515	256	10	116	R 31	R 1,928	124	11	R 1,793
April	1,429	140	9	123	R 92	R 1,793	183	6	R 1,604
May	1,454	45	8	123	R 68	R 1,698	289	6	R 1,403
June	1,406	42	7	117	R 54	R 1,626	327	6	R 1,293
July	1,425	27	9	120	R 31	R 1,612	325	5	R 1,282
August	1,436	37	8	118	R 37	R 1,636	321	5	R 1,310
September	1,374	36	8	120	R 31	R 1,569	284	7	R 1,278
October	1,475	61	8	142	R -70	R 1,616	214	6	R 1,396
November	1,496	144	9	140	R -94	R 1,695	136	6	R 1,553
December	1,566	467	11	156	-173	2,027	72	7	1,948
Total	17,609	1,918	105	1,532	R 173	R 21,337	2,436	86	R 18,815
1991									
January	1,572	632	10	156	R -22	R 2,348	57	8	R 2,283
February	1,425	360	9	131	R 47	R 1,972	R 60	7	R 1,905
March	1,507	262	10	119	R 35	R 1,933	98	9	R 1,826
April	1,440	83	9	145	R 96	R 1,773	212	8	R 1,553
May	1,452	31	9	128	R 34	R 1,654	306	6	R 1,342
June	R 1,403	20	7	125	R -35	R 1,520	R 308	8	R 1,204
July	E 1,439	46	9	132	R -63	R 1,563	266	6	R 1,291
August	E 1,450	54	9	131	-66	1,578	256	7	1,315
1991 YTD	11,688	1,488	72	1,067	26	14,341	1,563	59	12,719
1990 YTD	11,698	1,210	71	975	476	14,430	1,730	61	12,639
1989 YTD	11,529	1,669	70	873	303	14,444	1,821	71	12,552

^a Monthly and annual data for 1985 through 1989 include underground storage and liquefied natural gas storage. Data for January 1990 forward include underground storage only. See Appendix A, Explanatory Note 7 for discussion of computation procedures.

^b Represents quantities lost and imbalances in data due to differences among data sources. See Appendix A, Explanatory Note 11 for full discussion.

^c "Total" data for 1985 through 1989 do not equal equivalent data in Table 1 of the 1989 *Natural Gas Annual* due to the exclusion of intransit receipts and deliveries in the NGM.

^d 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

Notes: Data for 1985 through 1989 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 1989*, 1985 through 1989; IOCC, MMS reporting, and EIA estimates, January 1990 through current month. See Explanatory Note 3 for estimation procedures and revision policy. •Withdrawals from and Additions to Storage: EIA *Natural Gas Annual 1989*, 1985 through 1989; Form FERC-8 and Form EIA-101, January 1990 through current month. •Supplemental Gaseous Fuels: EIA *Natural Gas Annual 1989* 1985 through 1989; and EIA computations, January 1990 through current month. See Explanatory Note 2 for discussion of computation procedures and revision policy. •Imports and Exports: Form FPC-14, 1985 through 1989; and EIA estimates, January 1990 through the current month. See Explanatory Note 4 for discussion of procedures and revision policy. •Consumption and Balancing Item: EIA *Natural Gas Annual 1989*, 1985 through 1989; and EIA computations, January 1990 through current month. See Explanatory Notes 5 and 11 for discussion of computation procedures and revision policy.

Figure 1. Production and Consumption of Natural Gas in the United States, 1988-1992

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

Table 3. Natural Gas Consumption in the United States, 1985-1991
(Billion Cubic Feet)

Year and Month	Lease and Plant Fuel	Pipeline Fuel	Delivered to Consumers				Total	Total Consumption
			Residential	Commercial	Industrial	Electric Utilities		
1985 Total	966	504	4,433	2,432	5,901	3,044	15,811	17,281
1986 Total	923	485	4,314	2,318	5,579	2,602	14,814	16,221
1987 Total	1,149	519	4,315	2,430	5,953	2,844	15,542	17,211
1988 Total	1,096	614	4,630	2,670	6,383	2,636	16,320	18,030
1989								
January	95	57	751	376	598	147	1,872	2,024
February	88	57	742	380	570	172	1,864	2,009
March	93	54	645	342	602	211	1,800	1,947
April	88	49	414	233	563	235	1,445	1,582
May	89	51	256	159	544	251	1,210	1,350
June	86	50	155	121	529	260	1,065	1,201
July	88	50	129	110	525	320	1,084	1,222
August	87	50	121	110	539	310	1,080	1,217
September	82	48	139	113	532	268	1,052	1,182
October	87	49	228	152	568	254	1,203	1,339
November	90	50	405	231	603	189	1,428	1,568
December	97	65	790	391	643	171	1,995	2,157
Total	1,070	630	4,777	2,719	6,816	2,787	17,099	18,799
1990								
January	111	53	785	R 400	R 628	146	R 1,958	R 2,122
February	99	48	639	R 336	R 578	132	R 1,685	R 1,832
March	105	48	549	R 301	R 606	184	R 1,640	R 1,793
April	99	44	398	R 236	R 628	199	R 1,461	R 1,604
May	101	47	247	158	R 606	244	R 1,255	R 1,403
June	97	44	160	124	R 570	297	R 1,152	R 1,293
July	97	49	126	123	R 561	326	R 1,136	R 1,282
August	98	49	121	R 115	R 585	342	R 1,163	R 1,310
September	95	47	131	R 121	R 582	301	R 1,136	R 1,278
October	99	44	212	151	R 634	256	R 1,253	R 1,396
November	104	49	373	224	R 618	185	R 1,400	R 1,553
December	109	51	R 626	R 332	654	175	1,788	1,948
Total	1,214	573	R 4,368	R 2,622	R 7,251	2,786	R 17,028	R 18,815
1991								
January	109	58	847	433	R 665	171	R 2,116	R 2,283
February	99	50	668	359	R 583	146	R 1,756	R 1,905
March	104	51	575	310	R 594	192	R 1,671	R 1,826
April	100	48	375	226	R 589	215	R 1,405	R 1,553
May	100	48	230	R 154	R 561	249	R 1,194	R 1,342
June	R 97	44	R 148	R 120	R 536	260	R 1,063	R 1,204
July	100	42	127	127	566	330	1,149	1,291
1991 YTD	709	341	2,970	1,730	4,093	1,562	10,355	11,404
1990 YTD	709	333	2,905	1,679	4,177	1,527	10,287	11,329
1989 YTD	627	368	3,093	1,721	3,931	1,596	10,340	11,335

R = Revised Data.

Notes: Data for 1985 through 1989 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 1989*, 1985 through 1989; and Form EIA-857 and computations January 1990 through the current month. See 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, 1987 - 1991

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

Table 4. Selected National Average Natural Gas Prices, 1985-1991
(Dollars per Thousand Cubic Feet)

Year and Month	Wellhead Price ^a	Major Interstate Pipeline Companies		City Gate	Delivered to Consumers			
		Imports ^b	Purchased from Producers ^b		Residential	Commercial ^c	Industrial ^c	Electric Utilities ^d
1985 Annual Average	2.51	3.19	2.85	3.75	6.12	5.50	3.95	3.55
1986 Annual Average	1.94	2.53	2.39	3.22	5.83	5.08	3.23	2.43
1987 Annual Average	1.67	2.17	2.10	2.87	5.54	4.77	2.94	2.32
1988 Annual Average	1.69	2.00	2.13	2.92	5.47	4.63	2.95	2.33
1989								
January	1.99	1.77	2.35	3.17	5.41	4.81	3.39	2.63
February	1.81	2.20	2.16	3.10	5.38	4.80	3.33	2.44
March	1.69	1.99	2.14	2.89	5.45	4.79	3.12	2.32
April	1.56	2.01	2.19	2.83	5.54	4.77	2.91	2.31
May	1.61	2.00	2.11	2.94	5.93	4.64	2.80	2.39
June	1.65	2.04	2.05	2.98	6.58	4.57	2.69	2.40
July	1.65	1.88	2.00	3.08	6.92	4.65	2.70	2.40
August	1.61	2.27	2.11	3.04	7.07	4.61	2.71	2.38
September	1.55	2.02	2.08	2.99	6.80	4.67	2.67	2.33
October	1.58	2.17	2.13	2.84	6.06	4.61	2.75	2.39
November	1.66	2.13	2.23	2.98	5.56	4.71	2.98	2.56
December	1.92	2.08	2.39	3.10	5.30	4.81	3.32	2.85
Annual Average	1.69	2.04	2.18	3.01	5.64	4.74	2.97	2.42
1990								
January	2.22	2.04	2.42	3.24	5.41	4.98	3.50	3.00
February	1.85	2.25	2.17	3.10	5.62	R 5.04	3.37	2.76
March	1.56	1.99	1.94	2.94	5.58	R 4.92	3.04	2.37
April	1.50	2.00	2.17	2.83	5.62	4.82	2.81	2.28
May	1.47	2.08	1.98	2.81	5.98	4.63	2.64	2.18
June	1.49	1.91	2.18	3.00	6.54	4.57	2.54	2.16
July	1.50	1.88	2.00	3.03	7.01	R 4.47	2.46	2.22
August	1.51	1.93	1.86	2.91	7.04	4.56	2.48	2.23
September	1.57	1.89	1.93	2.92	6.86	4.56	2.56	2.21
October	1.79	1.90	2.18	2.81	6.11	4.67	2.64	2.45
November	1.99	2.21	2.45	3.14	5.66	4.81	2.99	2.79
December	2.07	2.27	2.58	3.19	R 5.60	4.92	3.21	2.89
Annual Average	1.72	2.03	2.19	3.03	5.77	4.83	2.89	2.38
1991								
January	1.95	2.24	2.23	3.08	5.53	4.98	3.25	2.71
February	1.57	2.12	1.98	2.94	5.55	4.97	R 2.99	2.35
March	1.46	1.94	2.06	2.79	5.60	4.93	R 2.78	2.21
April	1.47	2.05	1.91	2.75	5.88	4.90	R 2.53	2.10
May	1.42	2.00	2.04	2.77	6.28	R 4.68	R 2.40	2.01
June	1.39	2.05	1.98	R 2.85	R 6.97	R 4.81	2.33	1.94
July	NA	2.13	1.87	2.76	7.23	4.49	2.28	NA
1991 YTD	NA	2.08	2.01	2.88	5.79	4.89	2.69	2.18
1990 YTD	NA	2.02	2.12	3.02	5.70	4.86	2.96	2.38
1989 YTD	NA	1.98	2.14	3.01	5.59	4.76	3.02	2.40

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

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

^c See Table Notes and Sources for explanation of break in series for consumer prices in 1987.

^d Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

R = Revised Data.

NA = Not Available.

Notes: Data for 1985 through 1989 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 for 1985 through 1987 include imputed averages for volumes of gas delivered for the account of others. From 1988 on, average prices reflect on-system sales prices only. The change in series in 1987 affects the commercial and industrial averages.

Sources: •Average wellhead price: EIA *Natural Gas Annual 1993*, 1985 through 1989; and EIA estimates, January 1990 through current month. See 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 1985 through current month from Form EIA-857. See Explanatory Note 5 for discussion of revision policy. •Earlier prices from EIA *Natural Gas Annual 1989*. Electric Utilities averages 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, 1987-1991

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

Figure 4. Average Price of Natural Gas in the United States, 1987-1991

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

**Table 5. Projected Volumes and Prices of Wellhead Purchases by
NGPA Category, 1985-1991**
(Volumes in Billion Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Section 104 ^a		Section 105 ^b		Section 106 ^c		Old Gas ^d	
	Volume	Price ^m	Volume	Price ^m	Volume	Price ^m	Volume	Price ^m
1985 Total	3,549	1.48	57	2.54	358	1.18	3,964	1.47
1986 Total	2,675	1.41	58	2.26	320	1.13	3,053	1.39
1987 Total	2,035	1.34	33	2.08	260	1.15	2,327	1.33
1988 Total	1,579	1.49	25	2.27	184	1.35	1,794	1.49
1989								
January	134	1.94	2	1.83	13	1.61	149	1.91
February	135	1.96	2	1.79	12	1.67	149	1.94
March	128	1.89	2	1.79	12	1.63	141	1.86
April	85	1.55	2	2.01	9	1.43	96	1.54
May	76	1.51	1	2.09	8	1.49	85	1.52
June	71	1.41	1	2.09	8	1.46	80	1.43
July	68	1.42	1	1.80	7	1.51	75	1.43
August	67	1.39	*	1.76	7	1.49	74	1.41
September	65	1.43	1	1.83	7	1.52	73	1.44
October	79	1.51	1	1.97	8	1.51	88	1.51
November	76	1.80	1	1.97	8	1.56	86	1.78
December	77	1.81	1	1.97	8	1.52	86	1.79
Total	1,060	1.69	15	1.90	108	1.55	1,183	1.68
1990								
January	69	1.92	2	1.04	8	1.70	79	1.88
February	59	1.97	2	.96	8	1.71	68	1.92
March	57	1.97	2	1.04	7	1.73	66	1.92
April	53	1.81	2	1.30	7	1.61	62	1.77
May	55	1.80	1	1.24	7	1.70	63	1.78
June	52	1.75	2	2.17	7	1.70	61	1.76
July	49	1.79	2	2.08	5	1.73	56	1.80
August	44	1.68	2	2.08	5	1.59	51	1.69
September	43	1.72	1	.87	5	1.62	50	1.69
October	47	1.82	1	1.13	7	1.79	55	1.81
November	54	1.94	1	1.19	7	1.94	63	1.93
December	56	1.99	1	1.17	7	1.98	64	1.98
Total	638	1.86	19	1.46	81	1.74	738	1.83
1991								
January	59	2.00	1	1.17	7	2.02	67	1.99
February	52	1.98	1	1.17	6	2.04	59	1.97
March	48	1.94	1	1.18	6	2.02	55	1.94
April	45	1.88	1	1.22	5	1.86	50	1.86
May	39	1.78	1	1.18	4	1.70	44	1.76
June	36	1.76	3	2.52	3	1.65	42	1.80
July	31	1.67	2	3.15	4	1.61	37	1.74
August	32	R 1.64	2	3.18	4	R 1.56	37	R 1.71
September	31	1.68	1	2.13	4	1.52	35	1.67

See footnotes at end of table

**Table 5. Projected Volumes and Prices of Wellhead Purchases by
NGPA Category, 1985-1991 (Continued)**
(Volumes in Billion Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Section 102 ^a		Section 103 ^f		Section 108 ^g		Section 109 ^h		New Gas ⁱ	
	Volume	Price ^m	Volume	Price ^m	Volume	Price ^m	Volume	Price ^m	Volume	Price ^m
1985 Total	2,780	3.73	945	3.39	207	4.27	257	2.80	4,189	3.62
1986 Total	1,907	3.13	723	3.03	173	3.92	204	2.51	3,007	3.11
1987 Total	1,494	2.64	500	2.61	175	3.30	191	2.29	2,360	2.65
1988 Total	1,295	2.37	406	2.41	153	3.03	142	2.16	1,996	2.41
1989										
January	124	2.49	32	2.50	10	3.30	12	2.17	178	2.51
February	117	2.66	33	2.50	11	3.31	14	2.18	175	2.63
March	114	2.61	31	2.48	10	3.27	13	2.21	169	2.60
April	100	2.48	29	2.32	10	3.14	13	2.10	151	2.46
May	73	2.45	27	2.28	8	3.23	10	2.02	119	2.43
June	67	2.39	27	2.26	9	3.01	10	2.04	112	2.38
July	58	2.42	25	2.17	9	2.95	9	1.97	101	2.36
August	60	2.60	23	2.09	8	2.78	8	2.08	100	2.45
September	59	2.64	22	2.15	9	2.87	8	2.14	99	2.51
October	66	2.68	29	2.11	9	2.90	12	2.34	116	2.52
November	89	2.33	33	2.18	10	3.04	33	2.20	165	2.32
December	91	2.33	34	2.16	10	3.09	34	2.17	169	2.31
Total	1,018	2.51	346	2.28	113	3.08	176	2.15	1,653	2.46
1990										
January	85	2.41	32	2.29	10	3.19	31	2.17	157	2.39
February	75	2.53	31	2.27	9	3.13	24	2.28	139	2.47
March	76	2.52	30	2.28	9	3.07	23	2.29	138	2.47
April	79	2.43	25	2.17	8	3.11	25	2.20	137	2.38
May	59	2.39	24	2.15	8	3.27	16	2.00	107	2.34
June	56	2.36	23	2.08	7	3.11	16	1.99	102	2.29
July	47	2.34	23	1.97	7	2.99	15	1.93	92	2.23
August	46	2.15	21	1.86	7	2.66	15	1.87	89	2.08
September	44	2.18	21	1.91	8	2.84	14	1.86	87	2.13
October	55	2.31	21	2.18	8	2.93	15	2.00	98	2.28
November	75	2.35	24	2.30	7	3.33	42	2.24	148	2.36
December	90	2.44	29	2.35	8	3.25	45	2.40	172	2.45
Total	788	2.39	304	2.17	97	3.08	279	2.17	1,468	2.35
1991										
January	92	2.47	27	2.35	9	3.24	48	2.44	176	2.48
February	67	2.58	24	2.36	9	3.25	35	2.33	135	2.52
March	70	2.46	21	2.32	6	3.20	35	2.32	133	2.44
April	61	2.34	26	2.08	7	2.99	30	2.20	123	2.29
May	40	2.16	22	1.96	6	2.86	10	1.79	79	2.11
June	31	2.22	22	1.93	6	2.77	13	1.84	72	2.11
July	31	2.21	21	1.85	6	2.74	13	1.83	70	2.07
August	29	2.18	20	1.81	6	2.71	11	1.83	66	2.05
September	28	2.34	21	1.85	6	2.79	7	1.70	61	2.15

See footnotes at end of table

Table 5. Projected Volumes and Prices of Wellhead Purchases by NGPA Category, 1985-1991 (Continued)
(Volumes in Billion Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Section 107 ^l		Miscellaneous ^k		Total Gas ^l		Number of Companies ⁿ
	Volume	Price ^m	Volume	Price ^m	Volume	Price ^m	
1985 Total	738	4.71	*	--	8,890	2.75	48
1986 Total	426	3.48	*	--	6,487	2.32	46
1987 Total	417	2.72	*	--	5,104	2.05	46
1988 Total	438	2.61	*	--	4,226	2.04	42
1989							
January	31	2.51	*	--	358	2.26	39
February	34	2.54	*	--	358	2.33	41
March	33	2.56	*	--	343	2.29	40
April	31	2.58	*	--	278	2.16	41
May	29	2.56	*	--	233	2.11	44
June	28	2.57	*	--	220	2.06	45
July	26	2.45	*	--	203	2.03	45
August	24	2.54	*	--	199	2.07	44
September	24	2.55	*	--	195	2.11	44
October	28	2.62	*	--	231	2.15	44
November	29	2.43	*	--	280	2.16	44
December	28	2.43	*	--	284	2.16	44
Total	347	2.53	*	--	3,182	2.18	43
1990							
January	25	2.38	*	--	261	2.23	41
February	22	2.61	*	--	230	2.32	42
March	23	2.59	*	--	227	2.32	42
April	24	2.72	*	--	223	2.25	41
May	24	2.60	*	--	195	2.19	41
June	24	2.61	*	--	188	2.16	42
July	22	2.36	*	--	170	2.10	40
August	20	2.02	*	--	160	1.95	42
September	20	2.02	*	--	157	1.97	42
October	25	2.29	*	--	178	2.14	43
November	27	2.61	*	--	237	2.27	41
December	28	2.69	*	--	264	2.36	41
Total	284	2.47	*	--	2,490	2.21	42
1991							
January	30	2.83	*	--	273	2.40	41
February	26	2.82	*	--	220	2.41	41
March	26	2.83	*	--	214	2.36	41
April	24	2.71	*	--	197	2.23	42
May	19	2.55	*	--	142	2.06	42
June	18	2.56	*	--	132	2.07	42
July	18	2.46	*	--	125	2.03	41
August	16	2.24	*	--	120	1.97	42
September	17	2.23	*	--	112	2.01	39

^a Dedicated to interstate commerce.

^b Existing intrastate contracts.

^c Rollover contracts.

^d Total of Sections 104, 105, and 106.

^e New natural gas and certain natural gas produced from the Outer Continental Shelf.

^f New onshore production wells.

^g Stripper well natural gas.

^h Other categories of natural gas.

ⁱ Total of Sections 102, 103, 108, and 109.

^j High cost natural gas.

^k Natural gas not identified by category in Purchased Gas Adjustments (PGA) filing.

^l Total of old gas, new gas, high cost gas, and miscellaneous.

^m All prices are weighted averages.

ⁿ See Appendix A, Explanatory Note 12 for pipeline company list.

^o Revised Data.

-- Not Applicable.

* Volume is less than 500 million cubic feet.

Notes: See Explanatory Note 12 for discussion of purchased gas adjustment filings. Totals may not equal sum of components because of independent rounding.

Source: Purchased Gas Adjustment filings for interstate pipeline companies.

Figure 5. Purchased Gas Wellhead Prices in the United States, 1987-1991

Source: Purchased Gas Adjustment filings for interstate pipeline companies.

Table 6. Summary of Natural Gas Imports and Exports in the United States, 1985-1991
(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Imports				Exports	
	Longterm Contracts		Spot Markets		Volume	Average Price
	Volume	Average Price	Volume	Average Price		
1985 Total	949,715	3.21	NA	NA	55,268	4.77
1986 Total	715,960	2.43	34,489	1.57	61,271	2.81
1987 Total	804,496	1.95	188,036	1.30	54,020	3.07
1988 Total	952,520	1.96	341,292	1.41	73,638	2.74
1989						
January	82,813	2.23	39,604	1.69	6,722	2.69
February	71,892	2.11	34,673	1.53	7,253	2.41
March	82,655	2.04	35,016	1.38	11,127	2.41
April	74,433	2.08	38,611	1.32	11,137	2.34
May	68,812	2.02	36,713	1.37	8,030	2.44
June	69,355	2.01	35,343	1.35	8,943	2.57
July	67,405	1.94	34,225	1.31	8,681	2.55
August	73,268	2.29	32,701	1.29	9,148	2.48
September	80,435	2.09	34,566	1.22	8,998	2.41
October	83,324	2.22	37,676	1.24	10,453	2.57
November	80,124	2.08	41,876	1.48	7,909	2.71
December	98,801	2.06	47,199	1.70	8,471	2.90
Total	933,317	2.11	448,203	1.41	106,871	2.51
1990						
January	104,331	2.15	35,845	2.04	13,694	3.11
February	86,705	2.20	30,871	1.81	7,641	2.94
March	87,888	2.07	28,091	1.73	11,333	2.42
April	89,784	1.92	33,576	1.56	6,155	2.95
May	91,168	1.87	31,749	1.54	5,906	2.51
June	86,757	1.89	30,252	1.51	6,209	2.75
July	86,530	1.97	33,156	1.46	4,569	2.95
August	88,740	1.86	29,745	1.53	4,536	2.79
September	83,527	1.90	35,996	1.57	6,597	2.62
October	95,706	2.15	46,268	1.50	6,275	2.71
November	97,205	2.25	42,486	1.83	5,897	2.74
December	112,552	2.21	43,332	1.93	6,753	4.23
Total	1,110,892	2.04	421,367	1.68	85,565	3.10
1991						
January	107,000	2.04	49,139	1.79	7,748	2.82
February	80,000	2.17	46,477	1.57	6,484	2.67
March	88,000	2.16	50,777	1.47	9,324	2.46
April	93,389	1.91	51,611	1.33	7,641	2.78
May	77,165	1.86	50,835	1.33	5,922	2.68
June	69,535	1.87	55,465	1.32	8,103	2.68

NA : Not Available

Notes: Data for 1985 through 1989 are final. All other data are preliminary.

Sources: o Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," o "Quarterly Sales and Price Report" prepared by the Office of Fuels Programs, Office of Fossil Energy.

Table 7. Marketed Production of Natural Gas by State, 1985-1991
(Million Cubic Feet)

Year and Month	Alabama	Alaska	Arkansas	California	Colorado	Florida	Kansas
1985 Total	107,342	321,346	155,099	491,283	178,233	10,545	512,872
1986 Total	107,184	304,841	131,075	462,218	163,684	8,833	465,695
1987 Total	117,241	359,837	141,151	424,621	164,557	8,281	457,050
1988 Total	129,524	378,638	166,573	399,663	191,544	7,484	576,274
1989							
January	12,166	35,680	20,800	30,377	22,256	639	57,650
February	10,588	33,405	15,833	28,008	19,088	550	60,563
March	11,626	35,160	16,453	30,661	17,871	577	55,638
April	11,028	33,821	13,245	30,396	15,564	597	47,092
May	11,340	24,870	12,935	31,068	16,010	660	50,559
June	10,914	32,380	12,314	30,379	15,551	571	42,180
July	11,212	32,531	11,900	32,013	15,750	638	47,756
August	10,599	30,266	13,659	31,718	15,420	645	43,662
September	10,119	30,257	12,418	29,806	16,468	665	36,719
October	9,709	34,951	12,832	30,677	19,373	708	41,051
November	9,137	34,619	14,384	28,134	21,568	611	46,650
December	9,973	35,789	17,385	29,623	21,818	673	57,710
Total	128,411	393,729	174,158	362,860	216,737	7,534	587,230
1990							
January	10,650	35,514	E 21,800	28,313	21,484	699	57,345
February	10,097	34,268	E 16,400	25,362	17,390	649	48,176
March	11,223	34,845	E 17,300	30,292	17,567	553	50,256
April	11,165	32,533	E 14,400	29,010	18,070	629	46,660
May	11,736	29,666	E 14,100	29,171	18,034	660	46,608
June	10,988	30,091	E 13,400	27,467	16,976	557	40,202
July	11,670	31,215	E 13,100	30,200	17,071	537	43,504
August	11,525	31,307	E 14,700	29,123	17,085	479	40,519
September	11,672	30,123	E 13,700	29,988	16,093	454	37,020
October	11,343	35,838	E 14,000	33,258	20,249	574	E 44,800
November	10,307	36,919	E 15,300	32,102	19,334	507	49,963
December	12,964	40,503	E 18,900	30,936	20,812	588	53,204
Total	135,340	402,822	187,100	355,222	220,165	6,886	558,257
1991							
January	13,267	40,203	E 22,400	29,527	19,162	375	E 55,000
February	E 12,300	36,265	E 17,200	28,789	19,222	339	E 46,800
March	13,132	38,931	E 17,600	30,207	21,059	369	E 47,200
April	13,021	34,665	E 14,500	31,237	E 19,500	511	E 41,200
May	E 12,900	32,432	E 14,300	33,861	17,604	388	43,172
June	E 12,900	33,065	E 13,600	32,275	20,705	133	39,344
1991 YTD	77,520	215,561	99,600	185,896	117,252	2,115	272,716
1990 YTD	65,859	196,917	97,400	169,615	109,521	3,747	289,247
1989 YTD	67,662	195,316	91,580	180,889	106,340	3,594	313,682

See footnotes at end of table

Table 7. Marketed Production of Natural Gas by State, 1985-1991 (Continued)
(Million Cubic Feet)

Year and Month	Louisiana	Michigan	Mississippi	Montana	New Mexico	North Dakota	Oklahoma
1985 Total	5,013,702	131,855	144,170	52,494	905,272	72,633	1,936,341
1986 Total	4,895,394	127,287	140,833	46,592	702,614	55,098	1,917,493
1987 Total	5,122,509	146,996	139,727	46,456	823,773	62,258	2,004,797
1988 Total	5,180,267	146,145	124,053	51,654	791,819	57,747	2,106,632
1989							
January	462,497	12,129	9,885	5,285	76,385	4,534	171,407
February	416,292	12,715	8,724	4,740	71,990	3,874	170,435
March	452,444	12,637	8,780	4,789	72,556	4,309	178,866
April	428,437	12,663	9,364	4,372	67,421	4,252	182,017
May	434,489	12,812	9,204	3,797	65,556	4,417	190,207
June	411,724	14,724	8,932	2,541	60,526	4,136	183,465
July	410,492	12,896	8,693	3,165	67,229	4,468	185,458
August	412,289	12,807	8,987	3,369	70,746	3,771	180,743
September	387,125	13,696	6,984	4,257	67,447	3,935	174,864
October	401,455	13,326	7,194	4,858	70,808	4,566	185,799
November	430,699	13,955	7,632	5,036	80,013	4,418	190,129
December	430,182	11,628	8,266	5,098	83,938	4,494	191,814
Total	5,078,125	155,988	102,645	51,307	854,615	51,174	2,185,204
1990							
January	479,709	14,451	8,360	4,504	86,860	4,911	196,375
February	427,464	12,737	7,677	4,113	79,375	4,483	176,373
March	448,041	13,702	8,359	4,229	81,171	4,957	188,436
April	423,139	14,745	7,886	4,133	75,759	4,884	177,033
May	432,410	12,988	7,885	3,585	76,645	5,022	184,114
June	414,984	14,773	8,090	3,438	74,052	4,707	178,440
July	425,585	13,049	8,354	4,040	75,771	4,705	182,681
August	428,945	13,572	8,041	3,708	79,845	4,878	178,904
September	406,651	14,222	7,858	3,619	75,101	4,716	173,815
October	^b 439,394	13,824	8,204	4,575	80,253	4,831	179,754
November	^b 450,904	13,547	8,217	4,945	86,037	4,698	179,820
December	^b 460,635	14,750	8,722	4,894	91,547	4,765	^E 188,467
Total	5,237,861	166,360	97,653	49,793	962,416	57,557	2,184,212
1991							
January	^b 458,393	14,485	8,787	4,934	95,413	4,332	^E 185,153
February	^b 419,748	12,923	7,330	4,355	78,034	3,866	^E 175,769
March	^E 446,702	16,277	8,697	4,742	86,640	4,292	^E 187,448
April	^E 420,734	16,953	9,011	4,642	82,828	4,049	^E 180,595
May	^E 429,127	12,360	9,395	4,488	83,471	4,151	^E 187,027
June	^E 402,754	12,478	9,157	3,462	80,132	4,157	^E 181,647
1991 YTD	2,577,458	85,476	52,377	26,623	506,518	24,847	1,097,639
1990 YTD	2,625,747	83,396	48,257	24,002	473,862	28,964	1,100,771
1989 YTD	2,605,883	77,680	54,689	25,524	414,434	25,522	1,076,397

See footnotes at end of table.

Table 7. Marketed Production of Natural Gas by State, 1985-1991 (Continued)
(Million Cubic Feet)

Year and Month	Texas	Utah	West Virginia	Wyoming	Other ^a States	U S Total
1985 Total	6,052,663	83,405	144,883	416,565	467,294	17,197,999
1986 Total	6,151,775	90,013	135,431	403,266	481,584	16,790,910
1987 Total	6,126,315	87,158	160,000	497,980	457,830	17,348,537
1988 Total	6,286,029	101,372	174,942	509,058	462,056	17,841,474
1989						
January	545,995	11,563	17,970	63,140	41,235	1,601,593
February	498,336	10,631	17,612	54,794	40,722	1,478,900
March	541,753	10,346	16,271	56,294	40,824	1,567,855
April	518,207	9,313	14,930	51,686	38,773	1,493,178
May	525,157	10,134	14,215	56,519	38,978	1,512,927
June	508,113	7,824	14,841	52,138	37,850	1,451,103
July	520,968	10,092	13,678	51,594	38,363	1,478,896
August	516,596	9,588	13,320	50,036	39,696	1,467,917
September	491,862	8,462	12,963	51,023	38,158	1,397,228
October	512,554	9,473	11,353	55,332	40,722	1,466,741
November	517,874	10,130	14,662	58,195	39,286	1,527,132
December	544,010	12,533	15,377	64,348	40,620	1,585,879
Total	6,241,425	120,089	177,192	665,699	475,227	18,029,349
1990						
January	575,763	14,705	E 19,800	61,622	E 41,100	1,683,965
February	504,743	12,782	E 19,500	56,233	E 40,600	1,498,422
March	543,979	12,822	E 17,300	62,938	E 40,700	1,588,670
April	517,307	9,629	E 17,000	56,500	E 38,700	1,499,182
May	532,978	11,992	E 15,200	54,733	E 37,400	1,524,927
June	523,891	12,060	E 15,600	48,413	E 36,400	1,474,529
July	515,232	11,396	E 14,800	55,332	E 36,900	1,495,142
August	520,680	11,004	E 14,600	58,667	E 38,200	1,505,782
September	500,100	11,063	E 14,600	53,847	E 36,700	1,441,352
October	529,269	12,046	E 12,900	60,205	E 39,200	1,544,517
November	528,045	12,602	E 16,300	61,866	E 37,800	1,569,213
December	559,785	13,774	E 16,700	61,922	E 39,100	1,642,968
Total	6,351,772	145,875	194,300	692,278	462,800	18,468,669
1991						
January	566,150	13,995	E 20,900	51,561	E 40,100	1,644,137
February	496,680	11,573	E 20,400	58,364	E 39,600	1,490,057
March	530,200	12,789	E 18,600	51,650	E 39,700	1,576,235
April	519,057	11,468	E 17,800	46,952	E 37,700	1,506,423
May	513,903	11,206	E 16,700	53,970	E 37,300	1,517,755
June	502,137	10,562	E 17,100	55,122	E 36,400	1,467,130
1991 YTD	3,128,127	71,593	111,500	318,119	230,800	9,201,737
1990 YTD	3,198,661	73,990	104,400	340,439	234,900	9,269,695
1989 YTD	3,137,561	59,811	95,839	334,571	238,382	9,105,556

^a Includes Arizona, Illinois, Indiana, Kentucky, Maryland, Missouri, Nebraska, New York, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, and Virginia. The 1990 monthly values for these States are estimated.

^b Total marketed production for Louisiana in October 1990 - June 1991 were estimated on the basis of production reported in January - December 1989 and 1990, seasonally adjusted.

^c Estimated Data

Notes: Data for 1985 through 1989 are final. All other data are preliminary unless otherwise indicated. Totals may not equal sum of components because of independent rounding. See Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.

Sources: •EIA *Natural Gas Annual 1989*, 1985 through 1989 •I.O.C.C. MMS reports, and EIA computations, January 1990 through current month.

Table 8. Well Determination Filings, 1985-1991
(Volume in Billion Cubic Feet)

Year and Month	Section 102 ^a			Section 103 ^b			Section 107 ^c		
	Number of Filings*			Number of Filings*			Number of Filings*		
	Total	With Volumes	Estimated Annual Volume ^f	Total	With Volumes	Estimated Annual Volume ^f	Total	With Volumes	Estimated Annual Volume ^f
1985 Total	9,052	7,028	1,905	15,896	12,531	1,455	10,940	8,766	741
1986 Total	4,631	3,620	1,010	11,348	8,956	959	6,709	4,874	367
1987 Total	2,387	1,787	471	5,717	4,548	532	6,655	4,242	248
1988 Total	2,147	1,508	526	6,359	5,004	563	5,743	3,494	185
1989									
January	124	97	25	389	300	31	385	286	14
February	134	103	28	400	303	54	268	219	14
March	104	78	22	392	317	23	351	234	10
April	131	93	24	384	279	40	286	217	15
May	135	107	29	405	285	30	295	192	21
June	66	44	13	294	199	18	214	136	6
July	137	110	24	462	339	38	266	218	14
August	124	91	26	313	236	24	341	259	28
September	74	61	102	269	195	32	314	268	17
October	87	73	24	448	338	57	385	293	20
November	91	69	21	233	143	20	364	302	22
December	55	41	7	205	126	13	362	229	14
Total	1,262	967	344	4,194	3,060	379	3,831	2,853	195
1990									
January	85	67	17	289	173	24	388	298	21
February	67	54	20	248	155	18	389	262	16
March	122	86	17	291	181	17	714	468	29
April	93	82	18	204	137	11	425	231	22
May	82	71	17	367	213	26	553	378	32
June	45	39	10	297	224	22	468	349	42
July	34	28	7	202	144	20	362	254	21
August	52	29	13	205	139	24	359	221	13
September	58	43	19	208	138	21	493	388	27
October	61	47	11	258	199	22	381	236	22
November	127	109	14	234	144	29	543	349	21
December	59	43	11	163	114	11	473	345	11
Total	885	598	173	2,966	1,961	244	5,548	3,779	279
1991									
January	52	43	10	204	124	12	338	237	19
February	69	59	18	228	153	22	775	626	40
March	32	24	4	210	141	8	375	299	16
April	47	37	9	264	181	16	576	410	24
May	39	31	7	194	134	10	461	271	24
June	11	6	1	106	81	12	295	203	15
July	54	22	3	288	188	13	514	355	24
August	33	24	11	222	179	14	725	499	48
1991 YTD	337	246	63	1,716	1,181	108	4,059	2,900	211
1990 YTD	580	456	117	2,103	1,366	161	3,658	2,461	197
1989 YTD	955	723	190	3,039	2,258	257	2,406	1,761	122

See footnotes at end of table

Table 8. Well Determination Filings, 1985-1991 (Continued)
(Volume in Billion Cubic Feet)

Year and Month	Section 108 ^d			Total		
	Number of Filings ^a			Number of Filings ^a		
	Total	With Volumes	Estimated Annual Volume ^f	Total	With Volumes	Estimated Annual Volume ^f
1985 Total	9,740	5,304	74	45,628	33,629	4,174
1986 Total	7,215	4,115	50	29,903	21,566	2,383
1987 Total	5,061	3,179	58	19,820	13,756	1,309
1988 Total	4,020	2,602	34	18,269	12,608	1,309
1989						
January	120	71	1	1,018	754	71
February	136	78	1	938	703	96
March	142	61	1	989	690	56
April	170	103	1	971	692	80
May	408	326	1	1,243	910	81
June	163	101	1	737	480	38
July	389	344	2	1,254	1,011	78
August	92	75	1	870	661	78
September	144	80	3	801	604	153
October	380	338	3	1,300	1,042	104
November	145	65	1	833	579	63
December	92	39	1	714	435	35
Total	2,381	1,681	16	11,668	8,561	934
1990						
January	344	311	7	1,106	849	69
February	89	54	1	793	525	55
March	50	30	0	1,177	765	63
April	330	308	3	1,052	758	54
May	66	26	0	1,068	688	75
June	76	32	0	886	644	74
July	116	63	3	714	489	51
August	40	24	0	656	413	50
September	33	22	0	792	591	66
October	36	19	1	736	501	56
November	33	19	0	937	621	65
December	20	5	0	715	507	34
Total	1,233	913	17	10,632	7,351	713
1991						
January	17	8	0	611	412	41
February	78	56	1	1,150	894	81
March	181	22	1	798	486	29
April	63	40	0	950	668	49
May	488	27	0	1,182	463	42
June	18	8	0	430	298	29
July	32	14	3	888	579	43
August	55	38	0	1,035	740	73
1991 YTD	932	213	6	7,044	4,540	388
1990 YTD	1,111	848	16	7,452	5,131	491
1989 YTD	1,620	1,159	9	8,020	5,901	578

^a New natural gas and certain natural gas produced from the Outer Continental Shelf

^b New onshore production wells

^c High cost natural gas

^d Stripper well natural gas

^e Not all filings report estimated volumes. The "With Volumes" columns show number reporting volumes.

^f Annual volumes are often estimated by producers prior to actual operations or based on short periods of operation. For this reason the accuracy of estimates may vary.

Notes: Data for the current month and the previous 2 months are preliminary. All other data are final. Dates shown indicate date received at the FERC. Data include affirmative determinations only. See Explanatory Note 10 for discussion of Title I of the Natural Gas Policy Act. Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Source: Form FERC-121

Table 9. Well Determination Filings by State, August 1991
(Volume in Million Cubic Feet)

State	Section 102 ^a			Section 103 ^b			Section 107 ^c		
	Number of Filings ^e			Number of Filings ^e			Number of Filings ^e		
	Total	With Volumes	Estimated Annual Volume ^f	Total	With Volumes	Estimated Annual Volume	Total	With Volumes	Estimated Annual Volume
Alabama	0	0	0	0	0	0	91	14	5,074
Colorado	0	0	0	4	2	1,037	32	30	2,690
Kansas	0	0	0	22	22	4,251	1	0	0
Kentucky	0	0	0	73	46	2,569	194	173	8,217
Louisiana	9	7	5,936	0	0	0	1	1	180
Michigan	2	2	730	0	0	0	12	12	418
Montana	0	0	0	0	0	0	2	0	0
New Mexico	0	0	0	11	9	628	30	15	5,723
Ohio	0	0	0	6	4	149	54	39	882
Oklahoma	0	0	0	7	6	1,317	0	0	0
Pennsylvania	9	9	1,413	43	43	1,327	88	79	3,121
Tennessee	0	0	0	0	0	0	1	0	0
Texas	13	6	2,637	33	27	2,553	116	74	19,931
Utah	0	0	0	0	0	0	2	0	0
West Virginia	0	0	0	21	19	316	70	61	1,539
Wyoming	0	0	0	2	1	125	31	1	125
Total	33	24	10,716	222	179	14,272	725	499	47,900

See footnotes at end of table.

Table 9. Well Determination Filings by State, August 1991 (Continued)
(Volume in Million Cubic Feet)

State	Section 108 ^d			Total		
	Number of Filings ^e			Number of Filings ^e		
	Total	With Volumes	Estimated Annual Volume ^f	Total	With Volumes	Estimated Annual Volume ^f
Alabama	0	0	0	91	14	5,074
Colorado	0	0	0	36	32	3,727
Kansas	0	0	0	23	22	4,251
Kentucky	2	2	14	269	221	10,800
Louisiana	0	0	0	10	8	6,116
Michigan	0	0	0	14	14	1,148
Montana	0	0	0	2	0	0
New Mexico	16	1	20	57	25	6,371
Ohio	5	5	57	65	48	1,088
Oklahoma	5	5	29	12	11	1,346
Pennsylvania	21	21	287	161	152	6,148
Tennessee	0	0	0	1	0	0
Texas	2	0	0	164	107	25,121
Utah	0	0	0	2	0	0
West Virginia	4	4	21	95	84	1,876
Wyoming	0	0	0	33	2	250
Total	55	38	428	1,035	740	73,316

^a New natural gas and certain natural gas produced from the Outer Continental Shelf.

^b New onshore production wells.

^c High cost natural gas.

^d Stripper well natural gas.

^e Not all filings report estimated volumes. The "With Volumes" columns show number reporting volumes.

^f Annual volumes are often estimated by producers prior to actual operations or based on short periods of operation. For this reason the accuracy of estimates may vary.

Notes: Data shown are based on filings received at FERC during the month indicated by the table heading. Values include affirmative determinations only. See explanatory Note 10 for discussion of Title I of the Natural Gas Policy Act. Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Source: Form FERC -121.

Table 10. Well Determination Filings by Category, August 1991
(Volumes in Million Cubic Feet)

NGPA Category	Total Filings	Filings Reporting Volume	Estimated Annual Volume ^{a b}
Section 102^c			
New OCS Lease	0	0	0
New Onshore Well (2.5 miles)	9	9	1,413
New Onshore Well (1,000 ft deeper)	0	0	0
New Onshore Reservoir	14	8	3,367
New Reservoir on Old OCS Lease	10	7	5,936
Unspecified	0	0	0
Total	33	24	10,716
Section 103^d			
Less than 5,000 Feet Deep	132	102	7,581
5,000 Feet and Deeper	75	62	4,866
Depth Not Reported	15	15	1,824
Total	222	179	14,272
Section 107^e			
Deep	1	0	0
Geopressurized Brine	0	0	0
Coal Seam Gas	123	32	11,056
Devonian Shale	298	252	9,539
Production Enhancement	0	0	0
New Tight Formation	303	215	27,304
Recompletion Tight Formation	0	0	0
Unspecified	0	0	0
Total	725	499	47,900
Section 108^f			
Stripper Well	39	37	417
Seasonally Affected	0	0	0
Enhanced Recovery	10	0	0
Temporary Pressure Buildup	6	1	10
Unspecified	0	0	0
Total	55	38	428
Total All Sections	1,035	740	73,316

^a Includes all filings reporting volume.

^b Annual volumes are often estimated by producers prior to actual operations or based on short periods of operation. For this reason the accuracy of estimates may vary.

^c New natural gas and certain natural gas produced from the Outer Continental Shelf.

^d New onshore production wells.

^e High cost natural gas.

^f Stripper well natural gas.

Note: Data shown are based on filings received at FERC during the month indicated by the table heading. Data include affirmative determinations only. See Explanatory Note 10 for discussion of Title I of the Natural Gas Policy Act. Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Source: Form FERC-121

Table 11. Natural Gas Ceiling Prices by Category of Gas, Type of Sale, or Contract,^a1985-1991
(Dollars per Million Btu)

NGPA Category	Oct 1991	Oct 1990	Oct 1989	Oct 1988	Oct 1987	Oct 1986	Oct 1985
Section 102 New Natural Gas: Certain OCS Gas ^b	6.390	5.913	5.459	5.023	4.690	4.376	4.091
Section 103 (b)(1) New Onshore Production Wells ^c	3.790	3.640	3.488	3.333	3.231	3.131	3.038
Section 103 (b)(2) New Onshore Production Wells ^c	--	--	--	3.333	--	3.754	3.565
Section 105 ^d Intrastate Existing Contracts	6.003	5.605	5.222	4.849	4.572	4.306	4.063
Section 106 (b)(1)(B) Alternate Maximum Lawful Price for Certain Intrastate Rollover Gas ^e	2.167	2.083	1.996	1.906	1.849	1.790	1.739
Section 107 Gas Produced from Tight Formations	7.580	7.280	6.976	6.666	6.462	6.262	6.076
Section 108 Stripper Gas	6.845	6.332	5.846	5.379	5.022	4.687	4.379
Section 109 Not Otherwise Covered	3.134	3.011	2.888	2.761	2.677	2.593	2.518
Section 104 and 106 (a) Post-1974 Gas: All Producers	3.134	3.011	2.888	2.761	2.677	2.593	2.518
1973-1974 Biennium Gas: Small Producer	2.644	2.540	2.438	2.330	2.261	2.192	2.129
Large Producer	2.029	1.948	1.867	1.783	1.729	1.675	1.624
Interstate Rollover Gas: ^f Small Producer	1.162	1.117	1.072	1.024	.994	.964	.934
Large Producer	1.162	1.117	1.072	1.024	.994	.964	.934
Replacement Contract Gas or Recompletion Gas: Small Producer	1.491	1.431	1.372	1.310	1.268	1.229	1.196
Large Producer	1.138	1.093	1.048	1.003	.975	.945	.915
Flowing Gas: Small Producer	.750	.722	.692	.662	.644	.623	.605
Large Producer	.634	.607	.583	.559	.544	.523	.511
Certain Permian Basin Gas: Small Producer	.887	.851	.817	.781	.754	.733	.712
Large Producer	.787	.754	.721	.688	.670	.649	.631
Certain Rocky Mountain Gas: Small Producer	.887	.851	.817	.781	.754	.733	.712
Large Producer	.750	.722	.692	.662	.644	.623	.605
Certain Appalachian Basin Gas: North Subarea Contracts dated after Oct. 7, 1969	.715	.688	.658	.628	.613	.592	.574
Other Contracts	.663	.636	.609	.583	.568	.547	.529
Minimum Rate Gas: All Producers (dollars per Mcf)	.388	.373	.358	.346	.334	.325	.313

^a See Appendix A: Explanatory Note 10 for discussion of Title I of the Natural Gas Policy Act.

^b Commencing January 1, 1985 and July 1, 1987, the price of some natural gas finally determined to be produced from a new onshore production well under Section 103 is deregulated. Thus, for all months succeeding June 1987, publication of a maximum lawful price per MMBtu under NGPA Section 103(b)(2) is discontinued.

^c New category as of January 1, 1985.

^d Section 106(b) of the NGPA provides that for certain gas sold under an intrastate rollover contract, the maximum lawful price is the higher of the price paid under the expired contract adjusted for inflation or an alternative Maximum Lawful Price specified in this table. This alternative Maximum Lawful Price for each month appears in this row.

^e The price for interstate rollover gas is the higher of the price listed in this table or the just and reasonable price under the expired contract as adjusted for inflation.

-- = Not Applicable.

Notes: Geographic coverage is the 50 States and the District of Columbia. A "small producer" is one with annual sales subject to FERC jurisdiction not in excess of 10 billion cubic feet. On November 16, 1984, the FERC issued Order No. 406 in Docket No. RM 84-14-000 providing for inclusion of maximum lawful prices under Sections 103(b)(2) and 105(b)(3) of the Natural Gas Policy Act. Order No. 406 became effective on January 1, 1985.

Source: Federal Register, Rules and Regulations.

Table 12. Revenues, Expenses, and Income of Major Interstate Natural Gas Pipeline Companies, 1985-1991
(Million Dollars)

Year and Month	Total Sales Volume ^a (Bcf)	Gas Operating Revenues	Gas Operating Expenses			Total Gas Operating Expenses	Total Operating Income	Total Income Before Interest Charges and Extraordinary Expenses	Net Income ^c
			Operation and Maintenance	Depreciation, Depletion, and Amortization	Taxes ^b				
1985 Total	11,286	48,470	42,071	1,655	666	45,835	2,582	4,303	1,791
1986 Total	8,130	34,541	28,538	1,672	602	32,250	2,335	3,761	1,490
1987 Total	6,758	27,469	21,871	1,520	552	25,151	2,333	3,493	1,414
1988 Total	6,414	26,637	22,640	1,579	582	24,940	1,803	3,350	1,366
1989									
January	711	2,902	2,278	132	56	2,589	313	454	280
February	721	2,922	2,306	137	56	2,619	303	447	267
March	520	2,436	2,077	130	53	2,293	144	329	130
April	357	1,885	1,461	120	54	1,678	207	304	122
May	305	1,945	1,547	130	44	1,769	169	351	168
June	252	1,471	1,141	129	51	1,331	138	331	162
July	271	1,520	1,192	129	51	1,382	138	222	43
August	300	1,565	1,214	131	51	1,406	141	293	110
September	303	1,695	1,279	154	40	1,513	172	368	190
October	388	1,827	1,512	116	50	1,683	219	387	214
November	518	2,443	1,965	119	48	2,230	213	396	228
December	1,006	4,092	3,550	24	42	3,675	418	713	397
Total	5,652	26,703	21,522	1,451	596	24,168	2,575	4,595	2,311
1990									
January	710	3,106	2,495	130	59	2,783	323	492	326
February	556	2,601	2,053	131	60	2,329	272	411	249
March	440	2,200	1,638	109	56	1,899	301	456	291
April	343	1,733	1,329	124	53	1,550	183	365	208
May	278	1,525	1,183	111	52	1,371	154	294	141
June	246	1,460	1,110	108	52	1,270	189	398	234
July	R 295	1,492	1,173	R 142	53	1,359	133	215	62
August	247	1,487	1,093	39	53	1,182	304	269	122
September	244	1,431	1,102	90	48	1,268	163	302	155
October	337	1,840	1,376	115	47	1,600	240	391	86
November	415	2,206	1,721	120	52	2,016	190	367	233
December	594	2,558	2,115	85	49	2,272	290	317	193
Total	R 4,705	23,639	18,388	R 1,304	634	20,899	2,742	4,277	2,300
1991									
January	695	3,208	2,461	120	65	2,805	403	455	310
February	435	2,196	1,616	120	62	1,899	297	367	234
March	398	2,040	1,502	121	57	1,770	269	296	159
April	292	1,580	1,258	122	56	1,448	132	197	63
May	233	1,416	1,064	122	60	1,255	161	214	86
June	189	1,283	1,882	122	55	1,779	-496	-423	-542
July	215	1,309	1,001	121	56	1,150	159	194	35

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

^b Excludes income taxes

^c Total Income before Interest Charges and Extraordinary Expenses and Investment Tax Credits minus Income Taxes, Interest Charges, and Extraordinary Items

R = Revised Data

Notes: Data up to 3 years prior to current month are final. All other data are preliminary unless otherwise indicated. See 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.

Source: Form FERC-11

Table 13. Volumes and Prices of Natural Gas Sold by Major Interstate Natural Gas Pipeline Companies, 1985-1991
(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 ^a	Volume	Price ^a	Volume	Price ^a	Volume	Price ^a	Volume	Price ^a	
1985 Total	885,254	3.91	557,602	5.30	1,442,856	4.45	8,074,803	3.90	9,517,659	3.98	45
1986 Total	549,956	3.23	433,058	5.08	983,014	4.04	6,023,893	3.69	7,006,907	3.74	48
1987 Total	442,041	3.07	301,567	5.06	743,608	3.91	5,213,629	3.37	5,957,237	3.44	47
1988 Total	294,821	2.65	440,683	4.99	^R 735,504	4.05	4,866,193	3.47	^R 5,601,697	3.55	46
1989											
January	23,906	2.80	64,345	4.83	88,251	4.28	540,346	3.32	628,597	3.45	46
February	57,581	2.45	69,901	4.73	127,482	3.74	556,103	3.37	683,585	3.44	46
March	34,247	2.29	56,503	4.96	90,750	3.95	379,148	3.47	469,898	3.57	47
April	31,606	2.69	34,276	5.40	65,882	4.10	248,753	3.80	314,635	3.85	48
May	32,223	2.66	21,016	5.59	53,239	3.82	205,407	4.19	258,646	4.11	49
June	27,766	2.68	14,648	6.19	42,414	3.89	171,725	4.19	214,139	4.13	49
July	41,014	2.44	17,461	5.57	58,475	3.37	181,101	4.24	239,576	4.04	48
August	32,280	2.51	18,844	4.92	51,124	3.40	219,754	3.93	270,878	3.86	49
September	33,768	2.50	16,516	5.76	50,284	3.57	225,374	3.86	275,658	3.83	50
October	29,222	2.62	25,710	5.61	54,932	4.02	300,253	3.59	355,185	3.65	50
November	25,864	2.70	41,965	5.06	67,829	4.16	408,232	3.40	476,061	3.51	50
December	23,366	3.03	84,407	4.49	107,773	4.18	888,153	3.06	995,926	3.20	50
Total	392,843	2.58	465,592	5.02	858,435	3.91	4,324,349	3.51	5,182,784	3.58	50
1990											
January	23,281	3.52	61,566	4.90	84,847	4.52	488,521	3.43	573,368	3.59	51
February	22,294	2.95	54,121	5.00	76,415	4.40	478,331	3.19	554,746	3.36	51
March	25,138	2.64	45,531	5.05	70,669	4.20	333,858	3.09	404,527	3.29	51
April	23,943	2.51	31,740	5.20	55,683	4.04	285,462	3.26	341,145	3.39	51
May	24,714	2.40	21,818	5.63	46,532	3.91	228,978	3.47	275,510	3.54	51
June	24,376	2.30	^R 15,459	^R 5.95	^R 39,835	^R 3.71	^R 203,057	^R 3.53	^R 242,892	^R 3.56	51
July	^R 26,366	^R 2.38	18,235	5.04	^R 44,601	^R 3.66	^R 227,581	^R 3.49	^R 272,182	^R 3.52	51
August	9,905	2.69	17,356	5.25	27,264	4.32	189,863	2.85	217,127	3.04	51
September	8,001	2.90	16,719	5.84	24,720	4.89	191,281	3.00	216,001	3.22	51
October	10,810	3.20	27,253	4.90	38,063	4.42	271,770	2.52	309,833	2.75	51
November	14,840	3.23	37,629	5.24	52,469	4.67	331,138	3.57	383,607	3.72	51
December	18,440	3.32	85,477	4.92	103,917	4.64	451,433	3.48	555,350	3.69	50
Total	^R 232,111	^R 2.78	^R 432,904	^R 5.11	^R 665,015	4.31	^R 3,681,273	^R 3.27	^R 4,346,288	^R 3.43	51
1991											
January	17,618	2.98	103,880	4.81	121,498	4.54	523,936	3.45	645,434	3.66	50
February	12,031	2.66	68,645	4.70	80,676	4.39	320,765	3.23	401,441	3.46	50
March	10,023	2.78	58,730	4.72	68,753	4.44	311,445	2.95	380,198	3.22	50
April	9,051	2.74	34,718	4.92	43,769	4.47	236,270	2.90	280,039	3.15	50
May	12,053	2.37	25,608	5.28	37,661	4.35	183,783	3.01	221,444	3.24	50
June	12,386	2.19	18,765	5.56	31,151	4.22	144,782	2.99	175,933	3.21	50
July	12,047	2.04	22,476	4.74	34,523	3.80	169,148	2.85	203,668	3.01	50

^a All prices are weighted averages.

^R = Revised Data

Notes: 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 3 years prior to current month are final. All other data are preliminary unless otherwise indicated. See Explanatory Note 9 for discussion of major interstate pipeline companies. Totals may not equal sum of component's because of independent rounding.

Source: Form FERC-11.

Table 14. Volumes and Prices of Natural Gas Sold by Major Interstate Natural Gas Pipeline Companies, by Company, July 1991
(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	0.00	0	0.00	0	0.00	1 280	2.73	1 280	2.73
ANR	0	0.00	0	0.00	0	0.00	2 737	2.83	2 737	2.83
Arkla, Inc.	3 976	2.30	10 901	5.60	14 877	4.72	350	1.15	15 227	4.64
Bear Creek Storage	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Canyon Creek Transm Co	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Colorado Interstate	87	2.51	1	3.00	88	2.51	4 347	2.27	4 435	2.28
Columbia Gas Transm	0	0.00	0	0.00	0	0.00	9 526	3.67	9 526	3.67
Columbia Gulf	0	0.00	2	3.00	2	3.00	0	0.00	2	3.00
Consolidated Gas	0	0.00	0	0.00	0	0.00	886	2.88	883	2.89
East Tennessee	1 459	2.44	1	3.00	1 460	2.44	1 990	3.20	3 450	2.88
El Paso	4 105	1.18	0	0.00	4 105	1.18	2 534	2.02	6 639	1.50
Equitrans	74	1.43	0	0.00	74	1.43	737	1.80	811	1.77
Florida Gas	1 766	2.73	0	0.00	1 766	2.73	4 210	2.31	5 976	2.43
Great Lakes Gas	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
High Island Offshore	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
K. N. Energy Inc.	52	3.04	7 196	3.72	7 248	3.72	629	3.44	7 877	3.69
Michigan Consolidated	131	4.33	4 193	4.37	4 324	4.37	0	0.00	4 324	4.37
Michigan Gas Storage	0	0.00	0	0.00	0	0.00	70	3.81	70	3.81
Midwestern	0	0.00	0	0.00	0	0.00	1 661	4.24	1 661	4.24
Mississippi River	119	3.24	0	0.00	119	3.24	1 662	5.28	1 781	5.14
Mountain Fuel Res.	0	0.00	0	0.00	0	0.00	1 178	5.87	1 178	5.87
National Fuel	0	0.00	0	0.00	0	0.00	3 627	4.25	3 627	4.25
Natural Gas Pipeline	2	1.50	0	0.00	2	1.50	20 103	3.47	20 105	3.47
Northern Border	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Northern Natural	0	0.00	1	1.00	1	1.00	21 854	1.99	21 855	1.99
Northwest Alaskan	0	0.00	0	0.00	0	0.00	27 866	1.49	27 866	1.49
Northwest Pipeline	0	0.00	0	0.00	0	0.00	1 149	4.05	1 149	4.05
Overthrust Pipeline	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Pacific Gas Transm	0	0.00	0	0.00	0	0.00	20 392	2.58	20 392	2.58
Pacific Interstate	0	0.00	0	0.00	0	0.00	7 199	3.44	7 199	3.44
Panhandle Eastern	17	1.41	131	1.95	148	1.89	2 329	3.45	2 477	3.35
Sabine Pipeline Co.	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Sea Robin Pipeline	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Southern Natural	23	4.61	0	0.00	23	4.61	6 605	4.71	6 628	4.71
Stingray Pipeline	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Tenneco, Inc.	97	2.51	0	0.00	97	2.51	1 151	3.90	1 248	3.79
Texas Eastern	0	0.00	0	0.00	0	0.00	2 181	2.95	2 181	2.95
Texas Gas Transm	0	0.00	0	0.00	0	0.00	3 405	4.99	3 405	4.99
Trailblazer Pipeline	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Transcontinental	0	0.00	0	0.00	0	0.00	17 680	2.46	17 680	2.46
Transwestern Pipeline	6	1.38	21	1.67	29	1.59	2 026	1.05	2 055	1.05
Trunkline Gas Co.	1	2.00	24	2.00	25	2.00	7 240	3.91	7 265	3.81
Trunkline LNG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
U-T Offshore	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
United Gas Pipeline	72	2.78	1	1.00	73	2.75	337	2.80	410	2.79
Valero Interstate Transm	0	0.00	0	0.00	0	0.00	1 421	1.42	1 421	1.42
Viking Gas Company	0	0.00	0	0.00	0	0.00	44	2.52	44	2.52
Williams Natural	58	3.43	4	1.00	62	3.27	186	6.78	248	5.91
Williston Basin	0	0.00	0	0.00	0	0.00	117	3.81	117	3.81
Wyoming Interstate	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Total Average Price*	12 047	2.04	22 476	4.74	34 523	3.80	180 709	2.81	215 229	
Sales to Other Major Companies	--	--	--	--	--	--	11 561	2.31	11 561	
Sales Excluding Sales to Major Companies	--	--	--	--	--	--	169 148	2.85	203 668	3.01

* 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: 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.

Source: Form FERC-11.

**Table 15. Natural and Other Gases Produced and Purchased by
Major Interstate Natural Gas Pipeline Companies, 1985-1991**
(Million Cubic Feet)

Year and Month	Transported Gas ^a	Natural Gas ^b Production	Manufactured Gas Liquefied Natural Gas Gasified Coal and Synthetic Gas Production	Purchased Natural Gas				Total
				From Producers	Intracompany Transfers	Imports	From Others	
1985 Total	8 922 483	206 967	18 166	8 211 227	363 955	887 187	596 926	^R 10 058 395
1986 Total	10 588 148	136 921	22 634	6 466 257	166 964	697 249	345 309	^R 7 675 779
1987 Total	13 479 989	152 039	22 905	4 648 577	124 572	759 345	400 134	^R 6 132 628
1988 Total	15 950 507	139 621	23 960	4 516 120	66 879	962 383	374 983	^R 5 920 365
1989								
January	1 604 355	12 145	2 018	400 130	7 077	76 463	72 507	556 177
February	1 495 146	12 008	1 763	372 710	8 143	66 282	45 791	492 926
March	1 638 521	11 077	2 134	314 545	6 881	79 191	27 718	428 335
April	1 629 112	8 935	2 010	224 007	4 975	74 285	24 877	328 144
May	1 621 453	6 610	2 083	237 163	4 994	73 118	15 864	331 139
June	1 512 971	6 410	1 956	247 553	5 623	68 512	25 409	347 097
July	1 421 878	7 932	2 150	239 428	6 091	74 761	25 283	345 563
August	1 414 240	6 857	2 031	249 948	5 540	67 871	17 378	340 737
September	1 418 307	5 851	2 052	240 590	4 275	73 787	19 642	338 294
October	1 540 630	9 872	2 171	259 112	5 788	72 313	27 491	364 704
November	1 682 778	8 321	2 060	339 534	6 777	77 522	44 754	468 587
December	1 717 007	12 018	2 181	407 868	7 894	99 383	65 283	580 428
Total	18 696 398	108 036	24 609	3 532 588	74 058	903 488	411 997	4 922 131
1990								
January	2 042 330	9 249	2 064	487 025	7 656	102 640	73 255	670 576
February	1 819 590	7 301	1 948	368 096	5 752	77 018	28 383	479 249
March	1 983 023	10 077	2 295	297 445	6 243	79 441	23 978	407 107
April	1 660 666	6 844	2 095	245 781	4 621	81 523	24 224	356 149
May	1 666 594	6 608	2 141	294 466	5 278	79 549	19 329	398 622
June	1 500 305	6 476	1 971	237 229	4 376	78 303	20 390	340 298
July	1 530 684	7 132	2 118	231 879	7 479	80 772	25 705	345 835
August	1 598 638	6 743	1 956	225 496	6 175	84 595	23 209	339 475
September	1 544 694	7 194	1 902	227 631	6 033	79 456	19 209	332 329
October	1 723 553	9 510	1 945	227 925	5 966	88 286	21 771	343 948
November	1 798 333	7 655	1 555	278 097	6 156	89 861	31 570	405 684
December	1 786 087	9 206	2 245	348 589	7 459	92 484	45 519	494 051
Total	20 654 497	94 055	24 235	3 469 659	73 194	1 013 928	356 542	4 913 323
1991								
January	2 065 653	6 817	1 577	370 281	7 194	94 938	50 983	523 396
February	1 815 889	6 447	2 149	255 977	5 669	86 062	27 674	375 382
March	1 839 209	6 075	2 118	228 929	5 388	78 343	21 841	334 501
April	1 846 584	5 840	2 093	193 403	4 453	64 319	21 970	284 145
May	1 682 063	5 743	2 202	183 079	4 808	61 258	20 922	270 067
June	1 560 849	12 013	2 121	153 562	4 294	52 828	25 585	236 269
July	1 571 622	32 326	2 295	162 828	5 186	49 545	18 416	235 975

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

^b Mixture of hydrocarbons existing in gaseous phase or in solution with crude oil in natural underground reservoirs.

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

^R Revised Data

^{NA} Not Available

Notes: 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 compilation of total pipeline activities to eliminate double counting. See Explanatory Note 9 for discussion of major interstate pipeline companies. Totals may not equal sum of components because of independent rounding.

Source: Form FERC-11

**Table 16. Natural and Other Gases Produced and Purchased
by Major Interstate Natural Gas Pipeline Companies, July 1991
(Million Cubic Feet)**

Pipeline Company	Transported Gas	Natural Gas Production	Manufactured Gas Liquefied Natural Gas, Gasified Coal and Synthetic Gas Production	Purchased Natural Gas				Total
				From Producers	Intracompany Transfers	Imports	From Others	
Algonquin Gas	0	0	0	0	0	0	4,020	4,020
ANR	92,591	0	1,367	7,981	0	0	0	7,981
Arkla, Inc.	40,789	0	-48	5,216	0	0	10,635	15,851
Bear Creek Storage	0	0	0	0	0	0	0	0
Canyon Creek Transm Co	3,114	0	0	0	0	0	0	0
Colorado Interstate	26,445	4,474	0	2,698	4,474	0	0	7,172
Columbia Gas Transm	58,114	0	0	7,937	0	0	3	7,940
Columbia Gulf	75,027	0	0	0	0	0	-201	-201
Consolidated Gas	32,504	704	0	4,598	-54	0	4	4,548
East Tennessee	946	0	0	3,241	0	0	40	3,281
El Paso	102,349	15	0	6,132	0	0	1,218	7,350
Equitrans	3,235	0	0	3,461	0	0	29	3,490
Florida Gas	25,064	26,522	0	4,150	0	0	1,205	5,355
Great Lakes Gas	48,075	0	0	0	0	0	0	0
High Island Offshore	34,395	0	0	0	0	0	0	0
K. N. Energy Inc.	6,115	0	0	4,753	0	0	2,309	7,062
Michigan Consolidated	7,941	210	0	13,954	0	0	3,317	17,271
Michigan Gas Storage	16,891	0	0	0	0	0	70	70
Midwestern	7,064	0	0	853	0	0	933	1,786
Mississippi River	14,282	0	0	5,321	0	0	0	5,321
Mountain Fuel Res.	16,622	0	0	3,137	0	0	2,265	5,402
National Fuel	9,446	375	0	6,070	375	0	-5	6,440
Natural Gas Pipeline	97,725	23	976	9,343	23	-254	5,667	14,779
Northern Border	33,535	0	0	0	0	0	0	0
Northern Natural	108,622	0	0	11,299	0	0	10,911	22,210
Northwest Alaskan	0	0	0	0	0	27,866	0	27,866
Northwest Pipeline	58,506	0	0	1,942	0	343	0	2,285
Overthrust Pipeline	4,370	0	0	0	0	0	0	0
Pacific Gas Transm	16,163	0	0	164	0	20,414	0	20,578
Pacific Interstate	0	0	0	0	0	0	7,485	7,485
Panhandle Eastern	39,346	0	0	3,911	0	0	8	3,919
Sabine Pipeline Co.	10,513	0	0	0	0	0	0	0
Sea Robin Pipeline	17,904	0	0	-727	0	0	0	-727
Southern Natural	34,229	0	0	8,997	0	0	0	8,997
Stingray Pipeline	20,284	0	0	0	0	0	0	0
Tenneco, Inc.	125,331	0	0	4,403	0	1,069	1,022	6,494
Texas Eastern	61,834	3	0	3,671	0	70	347	4,088
Texas Gas Transm	41,182	0	0	6,616	0	0	64	6,680
Trailblazer Pipeline	7,667	0	0	0	0	0	0	0
Transcontinental	101,427	0	0	18,495	0	0	124	18,619
Transwestern Pipeline	25,637	0	0	1,112	0	0	0	1,112
Trunkline Gas Co.	32,388	0	0	7,930	0	0	0	7,930
Trunkline LNG	0	0	0	0	0	0	0	0
U-T Offshore	20,865	0	0	0	0	0	0	0
United Gas Pipeline	42,059	0	0	1,527	0	0	0	1,527
Valero Interstate Transm	4,147	0	0	0	0	0	1,421	1,421
Viking Gas Company	10,457	0	0	0	0	37	0	37
Williams Natural	24,916	0	0	3,627	0	0	430	4,057
Williston Basin	3,378	0	0	1,016	368	0	0	1,384
Wyoming Interstate	8,128	0	0	0	0	0	0	0
Total	1,571,622	32,326	2,295	162,828	5,186	49,545	53,321	270,880
Purchases from Other Major Companies	--	--	--	0	0	0	34,905	34,905
Purchases Excluding Purchases from Other Major Companies	--	--	--	162,828	5,186	49,545	18,416	235,975

* includes out-of-period adjustments to correct data in prior month

-- Not Applicable

Notes: 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 Explanatory Note 9 for discussion of major interstate pipeline companies. Totals may not equal sum of components because of independent rounding.

Source: Form FERC-11

**Table 17. Underground Natural Gas Storage - All Operators,
1985-1991**
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change In Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total ^b	Volume	Percent	Injections	Withdrawals	Net ^c
1985 Total^a	3,842	2,607	6,448	-270	-9.4	2,128	2,359	-231
1986 Total^a	3,819	2,749	6,567	142	5.5	1,952	1,812	140
1987 Total^a	3,792	2,756	6,548	7	3	1,887	1,881	6
1988 Total^a	3,800	2,850	6,650	94	3.4	2,174	2,244	-69
1989								
January	3,798	2,509	6,307	281	12.6	53	418	-365
February	3,801	1,994	5,796	168	9.2	32	602	-570
March	3,801	1,776	5,578	94	5.6	106	362	-256
April	3,801	1,823	5,624	54	3.0	181	138	43
May	3,802	2,062	5,863	34	1.7	321	44	277
June	3,802	2,374	6,176	82	3.6	375	20	355
July	3,802	2,644	6,446	77	3.0	371	29	341
August	3,802	2,938	6,740	103	3.6	356	29	328
September	3,802	3,187	6,990	67	2.2	320	39	281
October	3,792	3,268	7,061	25	.8	221	96	124
November	3,809	3,199	7,008	28	.9	105	223	-118
December	3,812	2,513	6,325	-337	-11.8	52	805	-752
Total	--	--	--	--	--	2,493	2,804	-311
1990								
January	3,818	2,265	6,083	-243	-9.7	91	339	-248
February	3,814	2,013	5,827	19	.9	70	324	-253
March	3,818	1,878	5,695	101	5.7	124	256	-131
April	3,839	1,932	5,771	109	6.0	183	140	43
May	3,823	2,159	5,982	97	4.7	289	45	245
June	3,844	2,454	6,297	79	3.3	327	42	285
July	3,850	2,747	6,597	103	3.9	325	27	298
August	3,851	2,995	6,846	57	1.9	321	37	283
September	3,852	3,267	7,119	80	2.5	284	36	248
October	3,852	3,426	7,277	158	4.8	214	61	153
November	3,868	3,417	7,285	218	6.8	136	144	-8
December	3,868	3,009	6,876	496	19.7	72	467	-395
Total	--	--	--	--	--	2,436	1,918	520
1991								
January	3,831	2,262	6,094	-3	-.1	57	632	-576
February	3,889	2,080	5,969	67	3.3	60	360	-300
March	3,865	1,912	5,777	34	1.8	98	262	-164
April	3,878	2,039	5,917	107	5.5	212	83	129
May	3,914	2,279	6,192	120	5.6	306	31	276
June	3,942	2,548	6,490	94	3.8	308	20	288
July	3,923	2,750	6,673	3	.1	266	46	220
August	3,939	2,971	6,910	-24	-.8	256	54	202

^a Total as of December 31

^b Total underground storage capacity at the end of each calendar Year (in billion cubic feet): 1985 - 8,087; 1986 - 8,145; 1987, 1988, and 1989 - 8,124; and 1990 - 8,125.

^c Positive numbers indicate the volume of injections in excess of withdrawals. Negative numbers indicate the volume of withdrawals in excess of injections.

-- Not Applicable.

Notes: Data for 1985 through 1989 are final. All other data are preliminary unless otherwise noted. See 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 6. Underground Natural Gas Storage in the United States, 1987-1991

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

**Table 18. Underground Natural Gas Storage - Interstate
Operators of Storage Fields, 1985-1991**
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total ^b	Volume	Percent	Injections	Withdrawals	Net ^c
1985 Total^a	2,517	1,905	4,422	-189	-9.0	1,590	1,758	-167
1986 Total^a	2,483	2,010	4,492	104	5.5	1,448	1,353	95
1987 Total^a	2,461	2,024	4,485	14	7	1,364	1,347	17
1988 Total^a	2,469	2,092	4,561	68	3.3	1,587	1,532	55
1989								
January	2,469	1,881	4,350	261	16.1	41	271	-230
February	2,469	1,515	3,983	197	15.0	18	430	-413
March	2,469	1,343	3,812	117	9.5	71	278	-206
April	2,469	1,357	3,825	61	4.7	125	109	16
May	2,469	1,519	3,988	29	1.9	230	34	196
June	2,469	1,748	4,217	59	3.5	277	11	266
July	2,469	1,960	4,429	68	3.6	282	14	268
August	2,469	2,170	4,639	88	4.2	258	18	240
September	2,469	2,348	4,817	65	2.9	232	26	207
October	2,461	2,386	4,847	37	1.6	154	77	77
November	2,478	2,305	4,783	-11	-5	73	175	-103
December	2,478	1,764	4,242	-328	-15.7	28	630	-602
Total	--	--	--	--	--	1,788	2,072	-285
1990								
January	2,479	1,597	4,076	-285	-15.1	72	240	-169
February	2,479	1,446	3,926	-68	-4.5	60	206	-146
March	2,479	1,371	3,850	28	2.1	101	176	-74
April	2,479	1,427	3,906	70	5.2	131	107	24
May	2,459	1,586	4,046	67	4.4	202	36	167
June	2,479	1,793	4,273	46	2.6	233	32	201
July	2,486	2,012	4,498	52	2.7	238	15	223
August	2,487	2,186	4,673	16	7	227	18	210
September	2,488	2,386	4,874	38	1.6	198	22	176
October	2,488	2,483	4,971	97	4.1	139	50	89
November	2,505	2,460	4,966	155	6.7	98	113	-16
December	2,496	2,200	4,696	436	24.7	64	318	-254
Total	--	--	--	--	--	1,763	1,333	431
1991								
January	2,534	1,729	4,263	132	8.3	49	458	-409
February	2,543	1,532	4,076	86	5.9	42	261	-219
March	2,527	1,434	3,961	63	4.6	79	175	-96
April	2,524	1,511	4,035	84	5.9	150	62	88
May	2,556	1,660	4,216	74	4.7	205	21	184
June	2,582	1,836	4,419	43	2.4	208	14	194
July	2,562	1,958	4,520	-54	-2.7	171	34	137
August	2,578	2,108	4,685	-78	-3.6	167	40	127

^a Total as of December 31.

^b Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1985 - 5,602; 1986 - 5,642; 1987, 1988, 1989, and 1990 - 5,622.

^c Positive numbers indicate the volume of injections in excess of withdrawals. Negative numbers indicate the volume of withdrawals in excess of injections.

-- = Not Applicable.

Notes: Data for 1985 through 1989 are final. All other data are preliminary unless otherwise noted. See 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 19. Underground Natural Gas Storage - Intrastate Operators and Independent Producers, 1985-1991
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total ^b	Volume	Percent	Injections	Withdrawals	Net ^c
1985 Total^a	1,325	701	2,026	-81	10.3	538	602	-64
1986 Total^a	1,336	739	2,075	38	5.4	504	459	45
1987 Total^a	1,331	732	2,063	-7	.1	522	533	-11
1988 Total^a	1,331	758	2,089	26	3.8	587	711	-124
1989								
January	1,329	628	1,957	20	3.3	12	147	-135
February	1,332	480	1,812	-30	-5.8	14	172	-157
March	1,332	433	1,765	-23	-5.1	35	84	-50
April	1,332	466	1,799	-7	-1.5	56	29	27
May	1,332	543	1,875	6	1.0	91	10	81
June	1,332	627	1,959	23	3.7	98	9	89
July	1,333	684	2,017	9	1.3	89	15	74
August	1,333	768	2,101	14	1.9	99	10	88
September	1,333	840	2,173	2	.2	88	13	74
October	1,333	883	2,214	-12	-1.3	67	19	47
November	1,331	893	2,225	39	4.6	32	47	-15
December	1,335	749	2,083	-9	-1.2	25	175	-150
Total	--	--	--	--	--	705	732	-26
1990								
January	1,338	669	2,007	41	6.6	20	99	-79
February	1,335	567	1,901	87	18.2	11	118	-107
March	1,338	507	1,845	74	17.0	23	80	-57
April	1,360	505	1,865	39	8.3	52	33	19
May	1,364	573	1,937	30	5.5	87	9	78
June	1,365	660	2,025	34	5.4	94	10	84
July	1,364	735	2,099	51	7.5	86	12	75
August	1,364	809	2,173	41	5.3	93	20	73
September	1,364	881	2,245	41	4.9	86	14	72
October	1,364	943	2,307	60	6.8	75	11	64
November	1,362	957	2,319	64	7.2	38	31	7
December	1,372	809	2,180	60	8.0	8	149	-142
Total	--	--	--	--	--	673	586	87
1991								
January	1,298	533	1,831	-136	-20.3	8	175	-167
February	1,346	548	1,894	-19	-3.4	18	99	-81
March	1,339	478	1,816	-29	-5.7	18	87	-68
April	1,354	528	1,882	23	4.6	61	21	40
May	1,358	619	1,977	46	8.0	101	10	91
June	1,360	712	2,072	52	7.9	100	6	94
July	1,361	792	2,153	57	7.8	95	13	83
August	1,361	863	2,224	54	6.7	89	14	75

^a Total as of December 31

^b Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1985 - 2,485; 1986 - 2,503; 1987, 1988, and 1989 - 2,502; and 1990 - 2,503.

^c Positive numbers indicate the volume of injections in excess of withdrawals. Negative numbers indicate the volume of withdrawals in excess of injections.

-- = Not Applicable

Notes: Data for 1985 through 1989 are final. All other data are preliminary unless otherwise noted. See 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 20. Net Withdrawals from Underground Storage, by State, 1991
(Volume in Million Cubic Feet)

States	August 1991	July 1991	June 1991	May 1991
Arkansas	-14	-487	-339	-131
California	-3,710	-13,565	-24,259	-26,643
Colorado	-5,170	-4,160	-5,101	-1,124
Illinois	-33,963	-28,656	-30,236	-31,113
Indiana	-4,160	-2,490	-394	-1,883
Iowa	-1,294	-5,577	-10,637	-4,456
Kansas	-2,552	-2,484	-8,668	-6,375
Kentucky	-3,263	-6,340	-3,797	-2,455
Louisiana	-5,978	-11,898	-22,515	-19,498
Maryland	-2,112	-1,360	-1,629	-1,558
Michigan	-46,731	-58,764	-57,648	-48,242
Minnesota	9	-291	-312	-151
Mississippi	-2,696	-1,705	-2,637	-3,887
Missouri	-302	-295	-89	-683
Montana	-1,440	-1,713	-1,236	-1,227
Nebraska	177	264	-2,142	-2,926
New Mexico	1,959	-1,041	-3,009	-2,925
New York	-8,671	-9,059	-7,680	-6,775
Ohio	-16,552	-14,909	-19,315	-22,509
Oklahoma	-4,765	-1,063	-10,465	-14,594
Oregon	-1,092	-1,458	-1,554	-713
Pennsylvania	-35,899	-22,464	-30,000	-40,416
Texas	-8,261	-4,328	-17,996	-15,301
Utah	-4,014	-6,328	-5,842	-2,553
Washington	60	-2,138	-2,716	-1,522
West Virginia	-9,724	-15,412	-16,245	-15,210
Wyoming	-1,740	-2,208	-1,978	-803
Total	-201,899	-219,929	-288,440	-275,713

See footnotes at end of table.

Table 20. Net Withdrawals from Underground Storage, by State, 1991
(Volume in Million Cubic Feet)—Continued

States	April 1991	March 1991	February 1991	January 1991
Arkansas	195	321	366	762
California	-20,856	16,809	-588	24,479
Colorado	4,031	6,961	2,049	3,245
Illinois	-2,860	25,269	48,753	67,685
Indiana	531	3,290	4,662	5,861
Iowa	-1,740	3,643	10,470	21,081
Kansas	2,272	5,245	3,897	18,025
Kentucky	-4,056	782	954	3,064
Louisiana	-6,250	13,652	32,121	49,641
Maryland	-924	1,605	3,286	3,089
Michigan	-24,601	23,577	57,119	114,929
Minnesota	-261	106	5,197	386
Mississippi	-6,236	-98	4,553	11,129
Missouri	-2,136	1,056	1,796	165
Montana	79	1,328	1,413	4,874
Nebraska	-1,136	719	1,035	1,846
New Mexico	-3,068	2,162	2,003	3,429
New York	-3,687	4,788	8,355	14,907
Ohio	-9,924	15,731	22,848	33,537
Oklahoma	-13,979	-5,225	4,954	35,168
Oregon	978	1,767	965	1,090
Pennsylvania	-5,634	26,616	47,074	76,436
Texas	-16,808	641	8,937	33,701
Utah	-1,015	3,623	7,206	8,179
Washington	-2,833	2,944	103	2,437
West Virginia	-8,905	6,615	19,839	33,937
Wyoming	44	-26	655	2,683
Total	-128,780	163,905	300,021	575,765

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. All 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 21. Activities of Underground Natural Gas Storage Operators,
by State, August 1991**
(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		Net Injections or Withdrawals ^a	
		Base Gas	Working Gas	Total	Volume	Percent	Current Period	Same Period Previous Year
Arkansas	31,278	19,202	8,385	27,587	NA	NA	14	NA
California	291,679	243,944	203,962	447,906	NA	NA	3,710	NA
Colorado	99,000	45,252	30,542	75,795	NA	NA	5,170	NA
Illinois	949,914	568,157	275,568	843,726	NA	NA	33,963	NA
Indiana	102,159	67,720	25,090	92,810	NA	NA	4,160	NA
Iowa	229,700	157,816	87,914	245,731	NA	NA	1,294	NA
Kansas	301,200	191,198	66,833	258,031	NA	NA	2,552	NA
Kentucky	307,235	105,481	92,573	198,054	NA	NA	3,263	NA
Louisiana	550,823	263,083	165,659	428,742	NA	NA	5,978	NA
Maryland	61,978	46,677	11,555	58,233	NA	NA	2,112	NA
Michigan	994,543	413,530	478,499	892,029	NA	NA	46,731	NA
Minnesota	7,000	4,655	2,214	6,869	NA	NA	-9	NA
Mississippi	108,601	46,090	53,364	99,453	NA	NA	2,696	NA
Missouri	29,791	21,600	8,335	29,935	NA	NA	302	NA
Montana	373,960	109,573	182,534	292,107	NA	NA	1,440	NA
Nebraska	143,312	27,312	56,745	83,657	NA	NA	-177	NA
New Mexico	94,600	30,410	13,734	44,144	NA	NA	-1,959	NA
New York	147,619	88,494	60,564	149,058	NA	NA	8,671	NA
Ohio	591,494	357,743	165,801	523,544	NA	NA	16,552	NA
Oklahoma	362,616	171,139	156,073	327,212	NA	NA	4,765	NA
Oregon	9,791	3,291	6,798	10,089	NA	NA	1,092	NA
Pennsylvania	640,939	352,314	253,072	605,386	NA	NA	35,899	NA
Texas	586,502	165,999	330,897	496,896	NA	NA	8,261	NA
Utah	114,980	49,908	19,364	69,271	NA	NA	4,014	NA
Washington	32,100	21,300	12,657	33,957	NA	NA	-60	NA
West Virginia	525,138	332,283	142,701	474,984	NA	NA	9,724	NA
Wyoming	106,130	34,651	59,918	94,569	NA	NA	1,740	NA
Total	7,794,083	3,938,822	2,970,952	6,909,774	NA	NA	201,899	NA

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

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 22. Natural Gas Deliveries to Residential Consumers by State, 1989-1991

(Million Cubic Feet)

State	YTD 1991	YTD 1990	YTD 1989	July 1991	June 1991	May 1991
Alabama	31,562	32,955	32,458	1,445	1,595	2,075
Alaska	8,552	8,500	8,658	470	662	907
Arizona	20,620	19,985	18,803	993	1,153	1,545
Arkansas	27,460	27,345	29,029	1,102	1,260	1,669
California	329,791	329,062	335,858	24,954	28,478	34,775
Colorado	67,122	65,648	64,895	2,567	3,597	7,103
Connecticut	24,566	25,823	26,355	915	1,173	1,975
Delaware	5,129	5,379	5,356	169	211	409
District of Columbia	10,585	11,208	12,065	460	503	804
Florida	8,207	8,689	8,393	650	711	762
Georgia	57,494	54,025	58,972	2,975	3,082	3,768
Hawaii	331	354	345	40	45	46
Idaho	6,837	5,577	6,078	193	391	694
Illinois	281,575	257,053	302,389	10,184	11,054	18,220
Indiana	95,630	90,286	96,038	3,036	3,282	5,822
Iowa	52,699	50,427	52,549	1,474	1,992	4,061
Kansas	51,987	51,475	52,398	1,780	2,032	3,660
Kentucky	36,296	34,876	40,017	1,277	1,377	1,804
Louisiana	35,476	35,729	37,252	1,911	R 2,264	2,540
Maine	483	442	422	24	32	46
Maryland	44,669	47,551	50,549	2,168	2,312	3,192
Massachusetts	71,711	77,714	77,519	3,011	3,758	6,318
Michigan	220,762	218,514	232,044	7,571	10,036	18,696
Minnesota	72,756	69,055	75,339	2,299	R 2,799	5,690
Mississippi	17,256	17,394	17,372	853	889	1,126
Missouri	82,267	80,828	87,225	2,784	3,038	4,910
Montana	11,495	10,679	11,862	449	600	1,228
Nebraska	28,906	27,894	29,529	1,023	1,167	2,242
Nevada	13,436	11,534	11,270	647	887	1,256
New Hampshire	3,936	4,280	4,347	141	189	359
New Jersey	116,384	120,075	127,486	4,674	5,324	8,457
New Mexico	21,197	20,431	18,474	897	1,099	1,765
New York	232,291	228,774	244,083	9,491	R 11,451	20,077
North Carolina	25,644	24,524	26,189	751	935	1,496
North Dakota	6,804	6,334	6,794	196	277	671
Ohio	206,855	197,178	214,055	6,906	7,992	13,638
Oklahoma	47,997	47,613	49,845	1,753	2,049	2,938
Oregon	18,777	16,055	15,850	811	1,461	1,935
Pennsylvania	159,026	166,614	177,398	5,713	6,690	11,077
Rhode Island	11,864	12,578	12,398	498	565	1,088
South Carolina	13,485	12,835	13,741	386	451	621
South Dakota	7,151	6,727	7,449	227	301	656
Tennessee	32,496	32,290	33,312	1,027	1,120	1,617
Texas	141,528	133,962	144,547	7,934	8,375	9,120
Utah	34,020	28,874	31,329	1,348	2,041	3,544
Vermont	1,505	1,507	1,431	46	64	124
Virginia	35,864	35,741	39,895	1,408	1,631	2,163
Washington	31,680	26,506	26,391	1,291	2,290	3,087
West Virginia	21,357	22,629	24,251	624	702	1,361
Wisconsin	76,984	75,745	84,320	2,740	2,489	6,026
Wyoming	7,457	7,304	8,268	272	429	854
Total	2,969,953	2,904,575	3,092,893	126,558	R 148,304	230,018

See footnote at end of table

Table 22. Natural Gas Deliveries to Residential Consumers by State, 1989-1991
(Continued)
(Million Cubic Feet)

State	April 1991	March 1991	February 1991	January 1991	Total 1990	December 1990
Alabama	3,921	6,777	8,393	7,356	46,079	5,434
Alaska	1,258	1,477	1,847	1,931	14,165	2,216
Arizona	3,065	3,392	4,405	6,067	28,435	4,195
Arkansas	2,977	5,069	6,916	8,467	39,170	4,802
California	46,113	60,562	53,001	81,908	514,590	76,556
Colorado	9,182	11,679	15,104	17,890	91,871	10,951
Connecticut	3,431	5,010	5,705	6,357	37,601	4,837
Delaware	795	1,079	1,217	1,249	7,269	830
District of Columbia	1,494	2,077	2,543	2,704	15,575	1,881
Florida	1,075	1,561	1,776	1,672	12,846	1,424
Georgia	5,112	10,836	13,289	18,432	89,688	15,441
Hawaii	51	49	50	50	573	48
Idaho	905	1,055	1,463	2,136	8,562	1,396
Illinois	32,311	54,733	62,682	92,391	419,212	72,402
Indiana	11,044	19,411	23,070	29,965	140,388	21,695
Iowa	6,329	10,016	12,688	16,139	72,012	9,716
Kansas	5,551	9,055	12,492	17,417	71,487	8,942
Kentucky	3,428	7,160	9,633	11,617	55,958	9,394
Louisiana	3,668	6,322	8,812	9,959	53,118	6,710
Maine	76	94	105	106	648	83
Maryland	5,895	8,997	10,282	11,823	67,543	8,238
Massachusetts	11,064	14,659	16,612	16,289	106,979	12,176
Michigan	29,146	44,016	49,800	61,497	329,245	45,323
Minnesota	R 8,551	R 14,258	R 16,348	R 22,811	106,544	17,110
Mississippi	1,919	3,419	4,384	4,666	25,034	3,016
Missouri	8,066	15,396	20,727	27,346	115,868	15,666
Montana	1,563	2,059	2,110	3,486	16,973	2,692
Nebraska	3,134	5,231	6,567	9,542	41,469	6,247
Nevada	1,951	2,129	2,564	4,002	17,157	2,594
New Hampshire	599	799	944	905	5,903	665
New Jersey	16,167	23,955	27,287	30,520	174,201	22,931
New Mexico	3,088	3,701	4,875	5,772	28,757	3,844
New York	34,014	48,387	51,987	56,884	333,637	42,783
North Carolina	2,973	5,548	6,843	R 7,098	35,088	5,010
North Dakota	859	1,254	1,528	2,019	9,183	1,235
Ohio	25,983	42,648	51,215	58,473	302,756	44,407
Oklahoma	4,847	8,466	11,496	16,448	66,310	8,335
Oregon	2,631	3,075	3,529	5,334	23,435	3,414
Pennsylvania	22,276	32,659	38,064	42,547	242,616	31,689
Rhode Island	1,759	2,449	2,715	2,790	17,735	2,094
South Carolina	1,356	2,956	3,845	3,870	18,430	2,781
South Dakota	857	1,339	1,569	2,202	10,204	1,523
Tennessee	3,222	6,891	8,740	9,879	46,089	6,259
Texas	13,526	22,925	31,567	48,081	209,118	33,352
Utah	4,514	5,715	7,276	9,582	43,424	6,463
Vermont	225	299	366	381	2,150	273
Virginia	4,544	7,286	9,120	9,712	53,031	7,518
Washington	4,709	5,553	6,244	8,506	40,273	6,133
West Virginia	2,853	4,818	5,482	5,517	R 32,568	R 4,065
Wisconsin	9,655	15,663	17,180	23,231	116,709	17,946
Wyoming	1,041	1,241	1,546	2,074	10,580	1,433
Total	R 374,772	R 575,201	R 668,002	R 847,098	R 4,368,257	R 626,171

See footnote at end of table.

Table 22. Natural Gas Deliveries to Residential Consumers by State, 1989-1991
(Continued)
(Million Cubic Feet)

State	November 1990	October 1990	September 1990	August 1990	July 1990	June 1990
Alabama	3,409	1,552	1,375	1,354	1,432	1,649
Alaska	1,586	929	527	407	409	548
Arizona	1,605	979	868	803	873	1,074
Arkansas	3,266	1,479	1,169	1,110	1,154	1,366
California	40,097	24,439	22,096	22,338	22,558	25,129
Colorado	7,138	3,449	2,330	2,356	2,477	4,189
Connecticut	3,214	1,667	1,124	934	1,104	1,350
Delaware	483	222	190	166	183	260
District of Columbia	1,035	558	448	445	505	613
Florida	896	627	612	597	654	692
Georgia	9,057	5,323	2,960	2,882	2,895	3,133
Hawaii	46	43	44	40	49	50
Idaho	896	349	186	160	173	360
Illinois	38,780	28,758	11,977	10,241	9,883	11,719
Indiana	13,121	8,493	3,682	3,113	3,040	3,977
Iowa	5,823	2,891	1,613	1,543	1,648	2,474
Kansas	5,093	2,521	1,774	1,682	1,823	2,463
Kentucky	5,730	3,300	1,373	1,285	1,374	1,596
Louisiana	4,357	2,337	2,022	1,962	2,017	2,252
Maine	56	27	22	19	20	30
Maryland	4,913	2,717	2,104	2,019	2,240	2,704
Massachusetts	7,725	3,732	2,994	2,639	3,166	4,899
Michigan	29,683	18,039	9,388	8,299	7,823	11,156
Minnesota	9,907	5,589	2,611	2,272	2,363	3,283
Mississippi	2,069	947	798	808	850	921
Missouri	9,326	4,464	2,874	2,711	2,944	3,781
Montana	1,706	1,047	453	395	392	706
Nebraska	3,456	1,895	1,033	947	1,056	1,294
Nevada	1,271	717	521	520	562	775
New Hampshire	465	203	162	128	145	262
New Jersey	14,390	6,807	5,415	4,582	5,092	6,248
New Mexico	1,915	967	829	771	812	1,065
New York	28,700	14,603	9,959	8,818	10,126	12,968
North Carolina	2,993	1,073	754	733	765	959
North Dakota	828	398	220	167	191	337
Ohio	29,246	16,503	8,398	7,023	7,744	9,672
Oklahoma	4,725	2,441	1,579	1,616	1,697	2,229
Oregon	1,977	895	533	561	706	1,209
Pennsylvania	21,101	10,718	6,737	5,759	6,037	8,484
Rhode Island	1,354	688	539	481	482	762
South Carolina	1,608	484	376	347	367	440
South Dakota	973	527	237	215	231	346
Tennessee	3,996	1,574	1,012	957	988	1,297
Texas	16,622	10,193	7,481	7,510	7,609	8,501
Utah	3,699	1,932	1,222	1,236	1,314	1,880
Vermont	183	95	51	40	43	82
Virginia	4,566	2,151	1,645	1,410	1,434	1,785
Washington	3,939	1,963	939	794	1,048	1,941
West Virginia	3,028	1,352	799	695	723	1,054
Wisconsin	10,522	6,811	3,153	2,533	2,398	3,647
Wyoming	897	446	235	265	295	539
Total	373,467	211,910	131,444	120,690	125,911	160,149

See footnote at end of table

Table 22. Natural Gas Deliveries to Residential Consumers by State, 1989-1991
(Continued)
(Million Cubic Feet)

State	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	2,696	4,204	5,332	6,589	11,053	47,932
Alaska	771	1,181	1,756	2,090	1,745	13,589
Arizona	1,338	2,060	3,784	5,235	5,621	27,084
Arkansas	2,160	3,808	4,626	5,554	8,677	42,312
California	30,984	37,608	60,256	73,943	78,584	514,276
Colorado	7,245	9,869	12,625	13,552	15,691	91,567
Connecticut	2,212	3,723	5,020	5,696	6,718	40,687
Delaware	449	797	1,008	1,069	1,613	7,595
District of Columbia	874	1,566	2,041	2,257	3,352	17,433
Florida	802	1,037	1,249	1,455	2,800	13,089
Georgia	3,757	6,357	10,030	11,719	16,134	103,657
Hawaii	46	51	56	53	49	565
Idaho	475	630	1,077	1,418	1,444	8,783
Illinois	22,246	35,498	49,308	60,983	67,416	496,487
Indiana	7,049	13,284	17,214	20,144	25,578	155,887
Iowa	4,209	7,402	9,690	10,759	14,245	77,403
Kansas	4,497	7,545	9,101	10,976	15,070	76,034
Kentucky	2,444	4,997	6,355	8,393	9,717	65,086
Louisiana	2,761	4,242	5,700	6,462	12,295	57,705
Maine	48	67	82	86	109	638
Maryland	3,618	6,976	8,944	9,121	13,948	75,138
Massachusetts	7,203	11,652	14,924	15,746	20,124	111,661
Michigan	19,364	31,785	43,683	48,436	56,247	361,667
Minnesota	5,519	9,482	13,504	16,000	18,904	116,909
Mississippi	1,265	2,204	2,792	3,305	6,057	26,312
Missouri	6,236	11,830	14,371	16,795	24,871	129,144
Montana	1,113	1,470	1,914	2,439	2,645	18,195
Nebraska	2,274	3,956	5,259	6,467	7,588	44,804
Nevada	862	1,127	2,209	3,011	2,988	16,765
New Hampshire	395	655	815	890	1,118	6,290
New Jersey	9,720	18,005	23,457	24,764	32,789	195,542
New Mexico	1,707	2,596	3,938	4,846	5,467	26,591
New York	20,239	33,991	46,015	52,072	53,363	364,713
North Carolina	1,607	3,304	4,412	4,921	8,556	38,658
North Dakota	581	949	1,175	1,440	1,661	9,825
Ohio	16,921	28,381	38,373	46,783	49,304	359,148
Oklahoma	4,066	6,710	8,350	10,320	14,241	71,793
Oregon	1,480	1,824	3,226	3,795	3,815	22,504
Pennsylvania	13,354	24,753	32,217	34,646	47,123	270,756
Rhode Island	1,219	1,868	2,456	2,533	3,258	18,283
South Carolina	738	1,541	2,257	2,596	4,896	20,472
South Dakota	600	959	1,293	1,529	1,769	11,342
Tennessee	2,107	4,383	5,544	6,478	11,493	49,136
Texas	10,751	15,181	22,880	26,822	42,218	230,100
Utah	2,576	3,287	5,699	6,949	7,169	45,168
Vermont	130	219	304	327	402	2,126
Virginia	2,475	4,733	6,964	7,389	10,961	61,712
Washington	2,570	3,309	5,328	6,372	5,938	38,359
West Virginia	1,745	3,399	4,170	4,686	6,852	37,128
Wisconsin	6,752	10,268	15,157	17,718	19,805	127,009
Wyoming	782	1,050	1,392	1,558	1,688	11,780
Total	247,052	397,773	549,330	639,189	785,171	4,776,838

^a — Revised Data.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Explanatory Note 5 for discussion of computations and revision policy.
Source: Form EIA-857.

Table 23. Natural Gas Deliveries to Commercial Consumers by State, 1989-1991

(Million Cubic Feet)

State	YTD 1991	YTD 1990	YTD 1989	July 1991	June 1991	May 1991
Alabama	14,586	16,303	17,299	1,084	1,104	1,284
Alaska	13,003	12,920	13,296	1,088	1,191	1,590
Arizona	18,045	18,471	18,375	1,718	1,685	2,088
Arkansas	16,906	16,854	18,041	993	1,023	1,207
California	173,575	173,516	154,602	22,094	20,008	21,448
Colorado	46,115	46,072	46,280	2,179	2,820	4,839
Connecticut	19,449	19,051	19,751	1,236	1,371	1,748
Delaware	2,904	2,839	2,802	148	163	240
District of Columbia	10,577	9,444	10,349	705	784	1,063
Florida	23,540	21,250	21,321	2,884	2,710	3,019
Georgia	31,323	30,838	31,456	2,396	2,402	2,833
Hawaii	1,258	1,310	1,252	187	173	173
Idaho	6,247	5,362	6,038	316	404	622
Illinois	116,895	120,663	119,995	6,069	5,183	R 8,237
Indiana	44,047	42,269	44,701	1,666	1,701	2,630
Iowa	30,570	29,464	30,685	1,089	1,306	2,275
Kansas	37,242	35,167	36,728	4,253	R 2,630	3,047
Kentucky	19,964	19,502	22,061	925	1,017	1,186
Louisiana	16,359	16,545	16,914	1,508	R 1,421	1,540
Maine	1,202	1,111	1,056	65	73	101
Maryland	24,207	16,987	18,332	1,548	1,605	2,112
Massachusetts	38,412	34,452	34,583	4,125	2,493	3,813
Michigan	107,204	107,111	113,766	4,741	5,420	9,322
Minnesota	52,528	48,973	53,554	2,332	R 2,557	R 4,256
Mississippi	11,730	11,471	11,096	815	921	955
Missouri	41,530	39,213	41,823	1,874	2,204	2,787
Montana	7,902	7,641	8,496	353	426	833
Nebraska	24,459	22,560	22,570	5,712	1,840	1,790
Nevada	10,987	9,688	9,598	955	1,131	1,345
New Hampshire	3,379	3,519	3,598	155	186	291
New Jersey	77,231	75,867	76,439	5,725	5,093	6,625
New Mexico	19,587	19,300	18,818	1,156	1,526	R 1,688
New York	132,164	120,748	123,241	11,255	R 10,550	12,255
North Carolina	20,379	19,498	21,278	1,471	1,557	1,793
North Dakota	6,647	6,692	7,111	301	319	627
Ohio	96,244	93,930	98,347	3,705	3,973	6,343
Oklahoma	25,220	25,802	26,218	1,242	1,315	1,674
Oregon	15,034	13,304	13,604	899	1,270	1,605
Pennsylvania	79,258	81,937	84,179	3,720	4,123	5,780
Rhode Island	5,120	1,928	5,362	535	412	654
South Carolina	10,136	9,747	10,592	848	856	950
South Dakota	5,863	5,543	5,714	263	303	R 547
Tennessee	29,160	28,669	30,521	1,628	R 1,813	2,209
Texas	108,430	108,314	115,795	12,366	10,434	10,954
Utah	13,605	10,931	11,648	405	668	1,316
Vermont	1,313	1,321	1,325	55	61	105
Virginia	27,664	27,156	28,433	1,850	2,141	2,459
Washington	27,440	24,862	25,716	1,830	2,399	3,023
West Virginia	13,227	13,557	14,432	473	938	1,198
Wisconsin	44,389	43,702	45,868	1,920	1,689	3,132
Wyoming	5,627	5,272	5,908	255	339	635
Total	1,729,875	1,678,650	1,720,960	127,114	R 119,729	R 154,242

See footnote at end of table.

Table 23. Natural Gas Deliveries to Commercial Consumers by State, 1989-1991
(Continued)
(Million Cubic Feet)

State	April 1991	March 1991	February 1991	January 1991	Total 1990	December 1990
Alabama	1,820	2,643	3,428	3,223	24,551	2,507
Alaska	1,920	2,183	2,421	2,610	21,622	2,818
Arizona	2,839	2,808	3,140	3,767	28,360	3,133
Arkansas	1,774	2,845	4,038	5,026	25,140	2,951
California	28,373	26,077	23,861	31,714	285,358	30,784
Colorado	6,317	7,897	9,968	12,095	66,117	7,661
Connecticut	2,789	3,771	4,124	4,410	29,257	3,515
Delaware	419	587	662	685	4,078	485
District of Columbia	1,381	2,132	2,308	2,204	13,860	1,635
Florida	3,409	3,836	3,772	3,910	35,288	3,592
Georgia	3,357	5,904	6,771	7,660	49,361	6,241
Hawaii	187	169	177	192	2,223	185
Idaho	820	954	1,288	1,843	8,527	1,314
Illinois	13,058	22,730	26,266	35,352	200,362	29,185
Indiana	4,684	8,848	11,006	13,512	67,337	10,476
Iowa	3,525	5,708	7,368	9,299	43,634	5,912
Kansas	4,228	5,664	7,308	10,112	56,198	5,922
Kentucky	1,910	3,614	5,055	6,257	31,696	4,862
Louisiana	1,973	2,716	3,558	3,643	25,194	2,513
Maine	180	236	265	282	1,678	219
Maryland	3,326	4,553	5,344	5,719	24,677	2,809
Massachusetts	5,594	7,024	7,662	7,701	50,879	5,734
Michigan	14,209	20,818	24,315	28,379	162,059	21,497
Minnesota	R 6,204	R 10,086	R 11,458	R 15,635	77,660	11,988
Mississippi	1,351	2,085	2,708	2,895	18,344	2,221
Missouri	4,299	7,533	9,998	12,835	58,487	7,800
Montana	1,041	1,433	1,419	2,397	12,242	1,901
Nebraska	2,183	3,379	4,100	5,455	36,469	4,092
Nevada	1,607	1,643	1,848	2,458	15,050	1,702
New Hampshire	484	672	797	794	5,073	585
New Jersey	11,652	14,411	16,250	17,475	114,882	13,924
New Mexico	2,646	3,358	4,162	5,051	29,051	3,872
New York	18,432	24,372	26,298	29,002	194,430	24,536
North Carolina	2,495	3,788	4,457	R 4,818	30,709	3,734
North Dakota	845	1,251	1,391	1,913	10,183	1,355
Ohio	11,779	19,701	24,471	26,272	142,047	18,957
Oklahoma	2,432	4,170	5,857	8,530	37,081	4,558
Oregon	2,042	2,400	2,756	4,062	20,345	2,722
Pennsylvania	10,785	15,885	18,117	20,848	126,940	16,735
Rhode Island	602	859	974	1,084	R 3,718	R 299
South Carolina	1,197	1,823	2,166	2,296	15,522	1,760
South Dakota	720	1,110	1,211	1,709	8,561	1,270
Tennessee	3,091	5,719	7,331	7,369	43,136	5,436
Texas	14,750	16,302	18,142	25,482	R 170,380	R 19,907
Utah	1,771	2,282	3,108	4,055	16,220	2,540
Vermont	187	259	311	335	2,049	261
Virginia	3,543	5,208	5,878	6,585	41,233	5,103
Washington	4,045	4,594	5,274	6,275	38,652	5,061
West Virginia	1,850	2,587	3,046	3,135	21,028	2,526
Wisconsin	5,522	8,828	10,201	13,097	67,495	10,209
Wyoming	775	930	1,165	1,528	7,812	1,048
Total	R 226,420	R 310,384	R 359,000	R 432,986	R 2,622,254	R 332,053

See footnote at end of table.

Table 23. Natural Gas Deliveries to Commercial Consumers by State, 1989-1991
(Continued)
(Million Cubic Feet)

State	November 1990	October 1990	September 1990	August 1990	July 1990	June 1990
Alabama	1,969	1,371	1,213	1,187	1,174	994
Alaska	2,106	1,554	1,148	1,077	1,061	1,134
Arizona	2,014	1,552	1,608	1,581	1,686	1,853
Arkansas	1,949	1,261	1,082	1,044	1,031	1,066
California	22,660	17,406	23,266	17,726	21,061	17,410
Colorado	5,286	2,911	2,064	2,122	2,162	3,114
Connecticut	2,443	1,596	1,345	1,309	1,352	1,476
Delaware	312	165	137	140	140	176
District of Columbia	860	590	742	589	528	720
Florida	3,185	2,439	2,406	2,417	2,502	2,587
Georgia	4,219	3,099	2,425	2,539	2,365	2,503
Hawaii	184	183	180	180	195	188
Idaho	821	459	292	279	293	389
Illinois	19,963	15,144	8,016	7,392	7,060	6,836
Indiana	6,649	4,091	1,992	1,861	1,659	1,965
Iowa	3,699	2,071	1,293	1,196	1,217	1,590
Kansas	3,887	2,900	3,847	4,475	4,920	2,856
Kentucky	3,183	2,046	1,026	1,078	1,038	1,128
Louisiana	2,101	1,500	1,286	1,249	1,373	1,512
Maine	157	83	62	47	52	70
Maryland	1,730	1,123	1,042	986	1,075	1,160
Massachusetts	4,298	2,428	1,916	2,051	2,020	2,504
Michigan	14,351	8,792	5,283	5,025	4,769	5,790
Minnesota	7,447	4,853	2,340	2,059	2,103	2,366
Mississippi	1,635	1,248	918	851	892	962
Missouri	4,730	2,796	2,030	1,918	1,980	2,260
Montana	1,214	787	349	350	325	490
Nebraska	2,554	2,336	2,332	2,595	4,829	1,326
Nevada	1,024	1,155	700	781	878	968
New Hampshire	380	265	170	153	153	221
New Jersey	9,170	5,726	5,293	4,901	4,912	5,427
New Mexico	2,132	1,441	1,204	1,102	1,052	1,266
New York	17,060	12,420	10,080	9,586	9,507	10,121
North Carolina	2,657	1,777	1,579	1,464	1,378	1,428
North Dakota	912	558	368	297	314	381
Ohio	13,607	7,206	4,210	4,138	3,948	4,802
Oklahoma	2,517	1,614	1,235	1,354	1,312	1,516
Oregon	1,689	1,045	819	765	817	1,151
Pennsylvania	11,770	6,757	5,118	4,623	4,441	5,195
Rhode Island	R 546	R 390	R 348	R 210	R 209	244
South Carolina	1,326	974	879	838	843	854
South Dakota	826	459	239	223	230	307
Tennessee	3,399	2,263	1,589	1,779	1,644	1,977
Texas	R 11,964	R 9,368	R 9,314	R 11,512	R 14,058	R 14,205
Utah	1,381	629	374	364	373	581
Vermont	195	127	84	62	46	68
Virginia	3,268	2,244	1,680	1,782	1,809	1,839
Washington	3,438	2,245	1,573	1,474	1,637	1,948
West Virginia	1,937	1,262	885	863	913	937
Wisconsin	6,137	3,947	1,836	1,663	1,732	2,178
Wyoming	703	350	223	217	229	379
Total	R 223,641	R 151,002	R 121,438	R 115,469	R 123,301	R 124,418

See footnote at end of table.

Table 23. Natural Gas Deliveries to Commercial Consumers by State, 1989-1991
(Continued)
(Million Cubic Feet)

State	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	1,654	2,199	2,671	3,061	4,550	26,438
Alaska	1,456	1,809	2,429	2,584	2,447	21,738
Arizona	2,171	2,336	3,159	3,569	3,697	28,580
Arkansas	1,399	2,224	2,808	3,369	4,957	27,284
California	18,552	23,439	27,435	34,812	30,807	259,118
Colorado	5,101	6,882	8,608	9,518	10,687	67,477
Connecticut	1,735	2,994	3,351	3,848	4,295	30,781
Delaware	241	422	535	534	791	4,184
District of Columbia	979	1,424	1,840	1,911	2,042	15,741
Florida	2,769	2,963	3,178	3,235	4,016	35,105
Georgia	2,849	3,954	5,157	5,912	8,098	53,114
Hawaii	181	180	188	188	190	2,129
Idaho	478	609	999	1,282	1,312	8,994
Illinois	10,701	17,659	22,054	25,727	30,626	196,133
Indiana	3,193	6,091	7,966	9,387	12,008	73,613
Iowa	2,392	4,231	5,678	6,328	8,028	46,142
Kansas	3,120	4,813	5,128	6,247	8,083	58,554
Kentucky	1,575	2,693	3,481	4,259	5,328	36,145
Louisiana	1,643	2,154	2,512	2,782	4,569	26,617
Maine	108	175	211	227	268	1,660
Maryland	1,597	2,542	3,137	3,197	4,279	26,920
Massachusetts	3,398	5,261	6,399	6,581	8,289	51,508
Michigan	9,402	15,650	21,126	23,071	27,303	176,181
Minnesota	4,016	6,708	9,801	11,356	12,623	85,183
Mississippi	1,161	1,537	1,670	2,005	3,244	17,568
Missouri	3,250	5,547	6,763	7,887	11,526	63,039
Montana	771	1,005	1,411	1,715	1,924	13,141
Nebraska	1,480	2,798	3,352	4,015	4,760	37,351
Nevada	1,005	1,184	1,737	1,960	1,956	15,116
New Hampshire	307	518	618	803	899	5,371
New Jersey	7,297	11,724	14,352	14,395	17,760	117,385
New Mexico	1,765	2,543	3,592	4,324	4,758	28,459
New York	11,441	17,718	22,969	24,053	24,939	196,380
North Carolina	1,795	2,692	3,329	3,612	5,264	33,145
North Dakota	612	1,043	1,236	1,449	1,657	10,609
Ohio	7,380	13,235	20,125	19,418	25,022	161,516
Oklahoma	2,272	3,408	4,162	5,592	7,540	38,493
Oregon	1,262	1,542	2,549	3,015	2,968	20,249
Pennsylvania	6,904	12,604	15,310	16,567	20,916	132,500
Rhode Island	R 402	R 258	R 247	R 235	R 333	8,767
South Carolina	1,062	1,271	1,587	1,660	2,470	16,525
South Dakota	537	770	1,065	1,235	1,399	8,826
Tennessee	2,460	3,771	4,523	5,732	8,562	47,573
Texas	R 12,191	R 13,940	R 16,492	R 16,168	R 21,260	184,179
Utah	860	1,203	2,271	2,779	2,864	16,522
Vermont	116	196	269	288	338	2,081
Virginia	2,422	4,583	5,133	5,196	6,174	44,181
Washington	2,723	3,284	4,488	5,656	5,126	38,502
West Virginia	1,212	2,020	2,322	2,613	3,540	23,257
Wisconsin	3,766	5,520	8,880	9,561	12,065	70,090
Wyoming	581	761	1,004	1,110	1,208	8,551
Total	R 157,744	R 236,084	R 301,306	R 336,028	R 399,769	2,718,716

R = Revised Data.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Explanatory Note 5 for discussion of computations and revision policy.
Source: Form EIA-857.

**Table 24. Natural Gas Deliveries to Industrial Consumers by State,
1989-1991
(Million Cubic Feet)**

State	YTD 1991	YTD 1990	YTD 1989	July 1991	June 1991	May 1991
Alabama	84,261	83,622	85,391	12,215	11,086	11,307
Alaska	47,857	45,226	36,711	7,043	6,627	6,230
Arizona	11,100	10,784	12,112	1,423	1,482	1,619
Arkansas	65,949	70,299	76,626	10,688	7,125	R 7,135
California	342,476	308,860	274,514	49,508	45,737	45,287
Colorado	33,611	29,386	29,234	4,151	R 3,773	R 4,240
Connecticut	16,902	14,201	11,467	2,043	2,020	2,247
Delaware	9,779	10,063	9,233	1,374	1,221	1,491
District of Columbia	0	0	0	0	0	0
Florida	49,743	45,658	45,732	6,663	6,390	7,601
Georgia	95,931	92,729	89,164	12,725	13,025	13,762
Hawaii	0	0	0	0	0	0
Idaho	15,814	13,103	13,500	1,877	2,238	2,302
Illinois	165,413	166,909	161,529	18,248	R 18,119	R 19,059
Indiana	133,720	131,529	130,700	16,897	16,136	16,888
Iowa	53,144	50,486	54,204	6,893	7,257	7,357
Kansas	78,245	67,962	62,435	10,460	R 9,944	10,535
Kentucky	41,831	39,036	38,063	4,846	5,203	5,335
Louisiana	585,386	538,356	507,623	88,393	R 83,026	84,176
Maine	1,103	1,127	772	149	171	179
Maryland	27,927	36,484	41,045	3,459	3,414	3,838
Massachusetts	36,962	24,024	21,250	5,314	6,740	R 6,661
Michigan	144,988	139,411	119,419	17,498	17,883	18,859
Minnesota	55,469	50,399	47,133	6,466	R 6,676	R 7,268
Mississippi	68,367	57,860	56,367	9,323	9,655	9,795
Missouri	31,946	37,793	36,975	3,838	3,710	3,917
Montana	5,296	4,947	5,158	490	534	670
Nebraska	11,217	14,723	19,995	1,305	1,378	1,399
Nevada	3,918	4,586	4,439	556	551	536
New Hampshire	1,875	1,730	1,296	242	245	264
New Jersey	58,030	51,400	48,992	6,978	7,320	7,754
New Mexico	10,429	11,236	10,600	1,507	1,212	1,507
New York	67,108	56,105	56,417	7,528	R 7,413	8,228
North Carolina	50,357	49,601	48,912	6,795	7,001	7,040
North Dakota	2,714	2,547	2,605	302	337	343
Ohio	156,491	154,070	165,552	17,992	18,845	19,940
Oklahoma	106,026	111,017	102,836	16,385	12,954	14,884
Oregon	29,843	29,828	24,486	4,019	3,807	4,325
Pennsylvania	138,183	140,481	144,907	16,252	17,284	R 18,860
Rhode Island	3,663	2,467	2,763	625	638	641
South Carolina	52,092	48,540	42,450	7,473	8,083	8,287
South Dakota	2,758	3,380	2,919	325	301	R 262
Tennessee	64,466	64,327	62,857	8,473	R 8,437	8,725
Texas	909,102	1,147,566	1,008,361	140,354	123,040	130,558
Utah	23,377	21,245	19,398	2,833	2,753	3,211
Vermont	971	1,113	1,183	102	98	116
Virginia	41,236	32,312	36,295	7,193	5,955	6,424
Washington	45,239	46,399	41,939	5,525	5,988	6,336
West Virginia	21,986	29,993	28,704	2,016	3,346	2,900
Wisconsin	75,620	72,105	76,356	7,220	7,749	8,613
Wyoming	12,824	10,363	9,116	1,727	R 1,834	1,739
Total	4,092,757	4,177,387	3,930,735	565,713	R 535,762	R 560,648

See footnotes at end of table

**Table 24. Natural Gas Deliveries to Industrial Consumers by State,
1989-1991 (Continued)**
(Million Cubic Feet)

State	April 1991	March 1991	February 1991	January 1991	Total 1990	December 1990
Alabama	11,903	12,890	11,775	13,085	R 142,135	12,282
Alaska	6,954	6,998	6,472	7,533	78,651	7,349
Arizona	1,530	1,625	1,612	1,809	18,440	1,801
Arkansas	11,338	7,721	10,080	11,862	113,861	9,226
California	52,590	49,842	46,465	53,047	555,041	53,450
Colorado	R 4,609	R 5,494	R 5,590	R 5,754	48,673	4,026
Connecticut	2,431	2,794	2,523	2,844	25,509	2,780
Delaware	1,556	1,325	1,289	1,523	17,034	1,423
District of Columbia	0	0	0	0	0	0
Florida	7,465	7,586	6,426	7,612	80,574	7,431
Georgia	13,693	14,380	R 13,583	R 14,763	160,858	13,794
Hawaii	0	0	0	0	0	0
Idaho	2,310	2,372	2,293	2,422	23,329	2,463
Illinois	20,995	26,754	27,360	34,878	279,128	28,672
Indiana	17,912	20,550	20,731	24,606	225,539	21,004
Iowa	7,457	7,717	7,681	8,782	87,523	8,023
Kansas	10,742	12,341	11,045	13,178	116,611	11,161
Kentucky	5,553	6,512	6,667	7,715	67,913	6,373
Louisiana	82,773	81,760	78,237	87,021	907,289	74,955
Maine	144	176	160	124	2,024	155
Maryland	4,103	4,555	4,305	4,253	61,728	6,043
Massachusetts	5,460	4,495	4,051	4,241	45,420	4,054
Michigan	20,429	21,783	23,961	24,575	246,012	24,129
Minnesota	R 7,741	8,723	R 8,906	R 9,689	89,074	8,864
Mississippi	10,117	9,445	9,852	10,180	105,110	10,356
Missouri	3,948	4,883	5,175	6,475	63,216	6,101
Montana	750	778	826	1,248	9,491	1,203
Nebraska	1,453	1,577	1,924	2,181	25,345	2,428
Nevada	549	552	563	611	7,369	485
New Hampshire	310	283	296	235	3,276	259
New Jersey	9,364	8,652	8,741	9,221	89,745	7,988
New Mexico	1,626	1,452	1,505	1,620	19,204	1,804
New York	9,606	10,310	10,887	13,136	99,848	10,651
North Carolina	7,028	7,235	7,432	R 7,826	86,732	7,212
North Dakota	375	419	428	510	4,358	443
Ohio	21,576	25,701	24,790	27,647	261,497	24,488
Oklahoma	15,194	15,107	14,585	16,917	192,183	19,278
Oregon	4,258	4,490	4,170	4,774	50,292	4,158
Pennsylvania	20,201	21,116	20,148	24,322	239,895	21,140
Rhode Island	474	362	504	419	4,376	294
South Carolina	7,611	7,926	5,588	7,124	90,776	6,926
South Dakota	375	438	567	490	5,768	470
Tennessee	8,950	9,363	9,833	10,685	109,474	9,815
Texas	133,611	121,109	120,768	139,662	R 2,023,543	R 174,967
Utah	3,466	4,155	3,042	3,917	35,981	3,477
Vermont	132	183	171	169	1,878	185
Virginia	5,836	5,527	4,913	5,388	R 57,966	R 4,011
Washington	6,693	6,968	6,383	7,346	78,414	6,787
West Virginia	3,306	3,157	3,392	3,869	R 50,541	R 4,875
Wisconsin	10,124	12,456	13,758	15,700	123,198	12,899
Wyoming	1,909	1,605	1,862	2,148	19,177	2,335
Total	R 588,530	R 593,643	R 583,320	R 665,141	R 7,251,020	R 654,493

See footnotes at end of table

**Table 24. Natural Gas Deliveries to Industrial Consumers by State,
1989-1991 (Continued)**
(Million Cubic Feet)

State	November 1990	October 1990	September 1990	August 1990	July 1990	June 1990
Alabama	11,862	11,692	11,027	11,649	10,952	11,125
Alaska	6,672	6,841	6,092	6,470	6,382	6,949
Arizona	1,437	1,485	1,395	1,536	1,680	1,357
Arkansas	9,283	9,023	7,732	8,299	8,541	8,559
California	51,237	50,029	50,810	40,655	48,280	46,155
Colorado	4,386	3,757	3,607	3,511	3,485	3,692
Connecticut	2,477	2,205	1,931	1,914	1,739	1,932
Delaware	1,435	1,258	1,489	1,365	1,208	1,393
District of Columbia	0	0	0	0	0	0
Florida	7,094	7,359	6,427	6,606	6,490	6,466
Georgia	14,095	14,268	13,374	12,598	10,725	11,791
Hawaii	0	0	0	0	0	0
Idaho	2,054	2,229	2,021	1,459	1,394	1,563
Illinois	24,060	23,444	18,707	17,336	18,877	19,340
Indiana	19,183	19,563	17,494	16,765	15,985	16,207
Iowa	7,945	7,987	6,666	6,416	6,221	6,728
Kansas	10,264	10,008	9,162	8,054	9,401	8,900
Kentucky	6,400	6,067	5,067	4,970	4,422	4,865
Louisiana	72,659	70,822	73,226	77,273	78,154	74,028
Maine	237	174	176	155	148	171
Maryland	5,300	4,764	4,787	4,348	3,971	4,488
Massachusetts	4,043	4,252	3,810	5,236	3,300	3,361
Michigan	23,136	22,489	17,825	19,022	16,506	17,303
Minnesota	8,388	7,768	6,785	6,869	6,384	6,038
Mississippi	9,601	9,476	9,024	8,795	8,497	8,742
Missouri	5,343	5,300	4,362	4,318	4,196	4,295
Montana	1,035	1,030	670	605	571	547
Nebraska	2,248	2,000	1,852	2,095	1,878	1,871
Nevada	579	509	617	592	587	617
New Hampshire	347	379	305	256	157	238
New Jersey	8,766	7,537	7,095	6,960	6,139	6,835
New Mexico	1,644	1,521	1,504	1,497	1,418	1,602
New York	9,660	8,685	7,079	7,668	6,572	6,680
North Carolina	7,621	7,963	7,256	7,079	6,005	6,460
North Dakota	424	374	292	280	239	290
Ohio	24,581	22,391	19,524	16,442	16,434	18,829
Oklahoma	15,379	14,892	15,671	15,946	15,413	14,222
Oregon	4,285	4,290	3,732	4,000	3,591	3,527
Pennsylvania	20,556	20,275	19,220	18,224	17,007	18,290
Rhode Island	429	456	397	331	189	326
South Carolina	7,581	8,641	9,301	9,787	8,846	7,049
South Dakota	466	562	445	447	440	488
Tennessee	11,052	6,550	8,742	8,988	8,705	8,554
Texas	R 160,605	R 191,293	R 168,625	R 180,487	R 164,038	R 170,849
Utah	3,281	3,179	2,333	2,467	2,372	2,722
Vermont	181	152	128	119	102	123
Virginia	R 4,649	R 6,557	R 5,012	R 5,425	R 4,939	R 4,676
Washington	6,817	6,424	6,041	5,946	6,070	6,907
West Virginia	4,110	3,811	3,845	3,908	3,918	4,039
Wisconsin	11,457	10,325	8,371	8,040	7,209	7,699
Wyoming	1,933	1,745	1,308	1,495	1,544	1,567
Total	R 618,274	R 633,802	R 582,359	R 584,705	R 561,321	R 570,455

See footnotes at end of table

**Table 24. Natural Gas Deliveries to Industrial Consumers by State,
1989-1991 (Continued)**
(Million Cubic Feet)

State	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	11,411	12,830	R 12,452	R 11,982	R 12,870	149,047
Alaska	5,603	7,000	6,571	6,129	6,592	59,341
Arizona	1,487	1,431	1,761	1,552	1,516	20,705
Arkansas	9,296	12,160	10,896	9,879	10,968	129,333
California	42,521	51,107	33,779	39,271	47,747	507,948
Colorado	3,627	3,961	4,911	5,058	4,652	51,348
Connecticut	2,108	2,516	2,341	2,043	1,522	19,724
Delaware	1,428	1,408	1,581	1,315	1,730	15,141
District of Columbia	0	0	0	0	0	0
Florida	6,683	6,037	6,382	6,159	7,441	75,485
Georgia	13,403	13,243	14,542	13,924	15,101	152,516
Hawaii	0	0	0	0	0	0
Idaho	1,828	1,781	2,183	2,079	2,275	22,903
Illinois	20,950	24,489	27,807	25,987	29,459	278,826
Indiana	18,969	18,987	20,616	16,986	21,779	219,952
Iowa	7,224	7,272	7,465	7,394	8,182	89,347
Kansas	8,688	10,411	11,321	9,840	9,401	100,623
Kentucky	5,243	5,744	6,033	6,032	6,697	64,003
Louisiana	77,334	78,124	77,301	75,956	77,459	897,754
Maine	184	296	92	143	93	1,374
Maryland	4,184	5,273	5,953	6,541	6,074	66,271
Massachusetts	3,279	4,664	3,355	2,840	3,225	35,588
Michigan	18,904	21,712	22,862	20,270	21,854	192,981
Minnesota	6,907	7,542	8,011	7,669	7,848	81,479
Mississippi	8,848	7,522	7,677	7,976	8,598	99,790
Missouri	4,883	5,539	6,008	5,922	6,950	62,680
Montana	692	657	689	764	1,027	9,903
Nebraska	2,047	2,083	2,332	2,312	2,200	30,545
Nevada	644	670	692	650	726	7,859
New Hampshire	370	337	188	203	237	2,241
New Jersey	7,139	8,228	9,041	7,249	6,769	84,771
New Mexico	1,676	1,797	1,563	1,530	1,650	18,710
New York	7,612	7,751	9,033	8,984	9,473	96,864
North Carolina	7,401	7,498	7,997	7,107	7,133	82,629
North Dakota	362	381	414	420	441	4,525
Ohio	20,188	23,005	24,161	24,626	26,827	278,205
Oklahoma	14,913	15,792	15,292	16,607	18,778	180,182
Oregon	3,928	3,791	4,348	5,760	4,883	43,752
Pennsylvania	18,793	21,458	21,476	21,590	21,867	242,526
Rhode Island	416	478	375	306	377	4,624
South Carolina	6,787	6,801	6,976	5,863	6,218	74,534
South Dakota	487	449	489	542	485	4,962
Tennessee	9,362	9,202	9,417	9,278	9,809	106,860
Texas	R 188,915	R 177,048	R 156,009	R 136,638	R 154,069	1,787,888
Utah	2,872	3,007	3,346	3,435	3,491	33,963
Vermont	153	170	198	175	192	1,901
Virginia	R 4,740	R 4,219	R 4,433	4,444	R 4,861	57,761
Washington	6,574	6,120	6,899	6,788	7,041	73,239
West Virginia	4,602	4,409	4,631	4,249	4,145	49,943
Wisconsin	9,186	10,174	12,356	12,116	13,365	127,439
Wyoming	1,391	1,450	1,379	1,409	1,623	16,217
Total	R 606,240	R 628,025	R 605,634	R 577,991	R 627,721	6,816,200

R = Revised Data.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Explanatory Note 5 for discussion of computations and revision policy.
Source: Form EIA-857.

Table 25. Natural Gas Deliveries to Electrical Utility^a Consumers by State, 1989-1991
(Million Cubic Feet)

State	YTD 1991	YTD 1990	YTD 1989	July 1991	June 1991	May 1991
Alabama	2,020	2,120	1,164	556	318	358
Alaska	19,464	19,257	18,595	2,487	2,519	2,807
Arizona	10,664	18,733	28,273	3,172	2,128	1,143
Arkansas	19,226	16,076	15,885	4,535	3,590	4,330
California	218,824	251,294	274,135	33,460	21,606	25,672
Colorado	2,766	2,976	5,628	613	447	475
Connecticut	1,816	922	1,574	1,033	332	283
Delaware	8,573	5,660	3,942	2,151	1,733	1,037
District of Columbia	0	0	0	0	0	0
Florida	116,772	106,538	109,148	19,138	18,896	18,067
Georgia	194	586	520	39	31	53
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	7,916	4,762	4,435	2,600	1,119	1,059
Indiana	4,506	3,004	2,466	1,566	511	738
Iowa	2,043	1,653	1,367	577	583	318
Kansas	21,382	14,962	11,166	6,452	4,737	3,700
Kentucky	137	171	259	21	16	15
Louisiana	144,361	148,222	140,098	31,218	28,517	26,324
Maine	0	0	0	0	0	0
Maryland	8,767	5,467	11,592	2,769	1,609	1,736
Massachusetts	21,774	27,519	25,743	6,853	3,672	3,663
Michigan	11,241	13,107	12,831	1,935	1,838	1,636
Minnesota	3,666	2,644	2,414	801	673	578
Mississippi	39,281	29,634	24,864	11,139	8,024	5,221
Missouri	8,073	988	756	3,026	1,878	1,593
Montana	148	202	198	21	43	52
Nebraska	1,856	1,379	1,514	194	190	511
Nevada	11,561	14,673	12,231	3,156	2,425	1,930
New Hampshire	0	0	12	0	0	0
New Jersey	41,176	18,584	38,243	11,363	7,956	8,078
New Mexico	16,649	15,812	15,258	3,241	2,648	2,254
New York	119,613	108,610	109,136	27,865	24,003	21,362
North Carolina	1,718	1,314	878	368	240	326
North Dakota	0	0	0	0	0	0
Ohio	1,648	379	459	354	261	366
Oklahoma	96,985	97,222	103,601	21,030	17,100	16,687
Oregon	1,771	3,106	5,313	1,216	9	2
Pennsylvania	1,336	1,296	2,619	206	189	271
Rhode Island	911	2,152	994	299	243	137
South Carolina	5,673	2,274	1,473	4,174	491	652
South Dakota	128	37	109	24	96	7
Tennessee	76	346	0	75	1	0
Texas	577,366	578,708	593,886	117,070	97,029	93,375
Utah	2,536	494	464	380	297	433
Vermont	667	275	0	224	276	124
Virginia	5,336	1,965	3,406	1,894	1,025	1,223
Washington	52	93	7,524	11	0	4
West Virginia	72	93	70	20	6	2
Wisconsin	1,663	1,439	1,260	184	360	472
Wyoming	38	38	43	5	10	2
Total	1,562,435	1,526,784	1,595,546	329,512	259,673	249,071

See footnotes at end of table.

Table 25. Natural Gas Deliveries to Electrical Utility^a Consumers by State, 1989-1991 (Continued)
(Million Cubic Feet)

State	April 1991	March 1991	February 1991	January 1991	Total 1990	December 1990
Alabama	274	239	173	102	3,958	300
Alaska	2,617	3,158	2,658	3,218	34,366	3,382
Arizona	2,185	1,708	226	102	24,278	290
Arkansas	2,799	2,205	843	924	32,090	1,776
California	31,486	39,826	34,475	32,299	456,406	26,630
Colorado	224	342	307	358	5,485	547
Connecticut	141	25	1	1	4,843	34
Delaware	1,184	1,396	628	444	10,776	724
District of Columbia	0	0	0	0	0	0
Florida	16,213	15,694	13,743	15,021	188,293	13,919
Georgia	5	6	17	43	1,932	42
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	732	742	676	988	9,195	803
Indiana	156	480	422	633	6,632	492
Iowa	147	140	120	158	3,478	147
Kansas	2,923	1,454	1,084	1,032	26,978	992
Kentucky	16	17	24	28	283	21
Louisiana	19,110	14,535	11,895	12,752	268,797	17,072
Maine	0	0	0	0	0	0
Maryland	886	728	429	610	17,536	660
Massachusetts	3,274	1,554	461	2,297	55,226	2,394
Michigan	1,298	1,682	1,877	975	22,999	2,011
Minnesota	385	672	366	191	5,231	221
Mississippi	3,312	3,341	3,418	4,826	65,304	3,558
Missouri	754	493	216	113	3,532	86
Montana	6	6	2	18	418	18
Nebraska	540	39	60	322	3,766	428
Nevada	1,474	1,123	830	623	24,348	486
New Hampshire	0	0	0	0	0	0
New Jersey	6,281	1,911	1,913	3,674	47,591	1,556
New Mexico	2,230	2,524	2,003	1,749	25,420	1,562
New York	14,965	13,305	8,538	9,575	223,253	15,059
North Carolina	124	153	209	298	2,461	94
North Dakota	0	0	0	0	2	0
Ohio	387	176	41	63	1,254	46
Oklahoma	12,529	9,668	8,026	11,945	168,960	10,921
Oregon	460	6	6	72	7,386	340
Pennsylvania	114	160	178	218	2,364	216
Rhode Island	75	140	17	0	5,484	27
South Carolina	173	158	15	10	6,975	8
South Dakota	0	1	0	0	235	68
Tennessee	0	0	0	0	565	0
Texas	84,134	71,055	49,645	65,058	1,007,381	67,723
Utah	547	577	146	156	907	113
Vermont	12	26	4	1	685	11
Virginia	892	280	7	15	6,299	35
Washington	3	22	5	7	191	79
West Virginia	11	14	11	8	139	8
Wisconsin	131	92	230	194	2,381	98
Wyoming	6	6	4	5	69	9
Total	215,213	191,879	145,947	171,140	2,786,153	175,003

See footnotes at end of table.

Table 25. Natural Gas Deliveries to Electrical Utility^a Consumers by State, 1989-1991 (Continued)
(Million Cubic Feet)

State	November 1990	October 1990	September 1990	August 1990	July 1990	June 1990
Alabama	172	302	591	473	520	542
Alaska	3,269	2,901	2,772	2,787	2,819	2,649
Arizona	353	1,036	1,958	1,908	3,813	4,130
Arkansas	2,434	2,564	4,264	4,976	6,019	4,491
California	29,386	41,697	49,434	57,965	59,280	40,590
Colorado	502	297	471	694	503	518
Connecticut	381	1,158	1,192	1,157	679	72
Delaware	952	701	871	1,867	1,279	1,081
District of Columbia	0	0	0	0	0	0
Florida	14,594	17,715	17,252	18,275	18,277	14,856
Georgia	53	148	531	572	222	204
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	717	762	1,024	1,127	1,077	1,125
Indiana	526	1,120	480	1,009	202	243
Iowa	244	468	554	413	373	440
Kansas	777	2,563	3,429	4,255	5,052	4,058
Kentucky	17	22	31	22	25	26
Louisiana	16,217	25,659	29,132	32,495	33,089	32,409
Maine	0	0	0	0	0	0
Maryland	1,000	3,084	3,069	4,259	2,055	1,208
Massachusetts	3,934	6,885	6,438	8,056	7,320	4,906
Michigan	1,547	1,915	2,455	1,967	2,001	2,207
Minnesota	255	217	1,152	742	658	467
Mississippi	5,905	7,854	7,720	10,633	10,401	5,024
Missouri	96	118	1,070	1,174	304	395
Montana	41	46	59	52	29	48
Nebraska	435	563	627	334	144	239
Nevada	932	2,147	3,026	3,084	3,731	2,754
New Hampshire	0	0	0	0	0	0
New Jersey	3,701	6,107	7,461	10,181	7,332	3,853
New Mexico	899	1,858	2,526	2,763	3,011	3,366
New York	19,990	27,425	25,609	26,558	23,069	20,603
North Carolina	163	241	299	351	404	390
North Dakota	1	0	0	0	0	0
Ohio	42	170	337	279	73	80
Oklahoma	9,094	13,550	18,056	20,117	19,293	17,968
Oregon	3	1,483	781	1,674	1,375	0
Pennsylvania	230	150	238	234	247	181
Rhode Island	166	939	1,015	1,184	602	403
South Carolina	66	709	1,898	2,020	1,798	404
South Dakota	1	3	69	59	9	24
Tennessee	0	27	78	113	223	113
Texas	64,516	80,233	101,014	115,196	106,952	123,879
Utah	150	146	2	2	7	81
Vermont	31	75	119	174	99	55
Virginia	925	1,262	1,092	1,019	1,094	672
Washington	3	2	2	12	69	1
West Virginia	14	14	7	4	9	7
Wisconsin	82	137	385	241	218	284
Wyoming	5	9	4	5	5	6
Total	184,820	256,480	300,596	342,469	325,760	297,052

See footnotes at end of table.

Table 25. Natural Gas Deliveries to Electrical Utility^a Consumers by State, 1989-1991 (Continued)
(Million Cubic Feet)

State	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	318	288	213	130	109	1,760
Alaska	2,570	2,535	2,860	2,920	2,904	32,746
Arizona	2,583	2,092	2,219	1,974	1,922	50,807
Arkansas	2,591	745	617	973	640	29,462
California	31,653	34,310	31,463	24,795	29,203	517,700
Colorado	469	375	499	258	354	8,375
Connecticut	168	0	1	1	1	3,294
Delaware	680	523	927	819	351	7,999
District of Columbia	0	0	0	0	0	0
Florida	17,557	16,239	15,353	12,531	11,725	186,814
Georgia	74	34	29	12	11	684
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	681	508	547	407	417	6,967
Indiana	634	561	499	433	432	4,075
Iowa	301	176	138	101	124	2,402
Kansas	2,090	925	1,121	821	895	19,152
Kentucky	12	26	36	32	14	328
Louisiana	22,521	17,817	17,916	11,415	13,055	244,984
Maine	0	0	0	0	0	0
Maryland	556	692	592	163	201	19,184
Massachusetts	7,819	5,734	1,165	557	18	48,448
Michigan	1,718	1,185	2,118	1,650	2,228	18,782
Minnesota	389	314	351	214	251	4,427
Mississippi	3,583	3,331	3,107	2,070	2,118	44,927
Missouri	83	52	61	43	50	1,242
Montana	27	31	22	19	26	336
Nebraska	370	336	185	46	59	2,593
Nevada	2,458	2,117	1,599	828	1,186	23,210
New Hampshire	0	0	0	0	0	23
New Jersey	1,594	3,273	1,631	686	215	55,412
New Mexico	2,751	2,213	1,931	997	1,543	27,365
New York	18,466	17,054	17,193	6,973	5,252	182,000
North Carolina	163	109	102	76	70	1,673
North Dakota	0	0	0	0	0	1
Ohio	49	73	34	30	40	983
Oklahoma	13,624	12,146	11,907	10,589	11,695	178,021
Oregon	0	0	0	1,496	235	12,942
Pennsylvania	156	222	161	156	173	4,022
Rhode Island	629	408	85	0	25	2,147
South Carolina	28	13	12	11	8	2,705
South Dakota	1	1	1	0	1	132
Tennessee	0	0	10	0	0	18
Texas	103,766	72,033	66,916	47,236	57,926	1,023,793
Utah	122	130	153	0	1	636
Vermont	49	46	3	2	21	37
Virginia	153	27	18	0	1	3,796
Washington	9	0	2	9	3	8,320
West Virginia	10	16	2	18	31	124
Wisconsin	280	281	177	101	98	2,076
Wyoming	7	5	5	5	5	85
Total	243,760	198,996	183,982	131,593	145,641	2,787,012

^a Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

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

Source: Form EIA-759.

Table 26. Natural Gas Deliveries to All Consumers by State, 1989-1991
(Million Cubic Feet)

State	YTD 1991	YTD 1990	YTD 1989	July 1991	June 1991	May 1991
Alabama	132,429	135,002	137,311	15,301	14,103	15,024
Alaska	88,876	85,902	77,260	11,088	10,999	11,533
Arizona	60,428	67,974	77,559	7,307	6,448	6,395
Arkansas	129,542	130,572	139,584	17,319	12,997	R 14,342
California	1,064,670	1,062,734	1,039,110	130,017	115,829	127,183
Colorado	149,616	144,080	146,036	9,511	R 10,637	R 16,656
Connecticut	62,732	59,997	59,148	5,227	4,896	6,253
Delaware	26,386	23,942	21,332	3,842	3,329	3,177
District of Columbia	21,163	20,653	22,412	1,165	1,287	1,867
Florida	198,258	182,136	184,597	29,335	28,706	29,449
Georgia	184,943	178,179	180,112	18,135	18,541	20,416
Hawaii	1,590	1,663	1,595	227	218	220
Idaho	28,901	24,039	25,615	2,386	3,034	3,617
Illinois	571,799	549,387	588,350	37,100	R 35,475	R 46,575
Indiana	277,904	267,088	273,904	23,165	21,630	26,077
Iowa	138,456	132,029	138,804	10,032	11,137	14,012
Kansas	188,855	169,567	162,724	22,945	R 19,344	20,942
Kentucky	98,228	93,585	100,402	7,069	7,613	8,339
Louisiana	781,585	738,850	701,885	123,030	R 115,228	114,581
Maine	2,789	2,679	2,251	238	277	325
Maryland	105,568	106,492	121,519	9,943	8,941	10,878
Massachusetts	168,858	163,709	159,096	19,302	16,662	R 20,455
Michigan	484,193	478,139	478,062	31,745	35,176	48,512
Minnesota	184,421	171,070	178,440	11,899	R 12,705	R 17,792
Mississippi	136,634	116,360	109,702	22,130	19,489	17,097
Missouri	163,818	158,821	166,774	11,523	10,830	13,207
Montana	24,841	23,469	25,715	1,313	1,603	2,783
Nebraska	66,438	66,556	73,606	8,235	4,575	5,941
Nevada	39,900	40,482	37,539	5,313	4,994	5,067
New Hampshire	9,190	9,530	9,250	538	620	914
New Jersey	292,819	265,929	291,157	28,739	25,693	30,914
New Mexico	67,861	66,779	63,150	6,800	6,485	R 7,214
New York	551,179	514,237	532,874	56,139	R 53,417	61,923
North Carolina	98,097	94,940	97,260	9,385	9,733	10,654
North Dakota	16,164	15,574	16,512	799	933	1,640
Ohio	461,237	445,557	478,411	28,957	31,070	40,287
Oklahoma	276,230	281,655	282,497	40,410	33,419	36,183
Oregon	65,422	62,291	59,255	6,944	6,547	7,867
Pennsylvania	377,804	390,327	409,102	25,891	28,286	R 35,989
Rhode Island	21,557	19,125	21,515	1,957	1,858	2,520
South Carolina	81,385	73,397	68,258	12,881	9,881	10,510
South Dakota	15,900	15,686	16,188	838	1,001	1,472
Tennessee	126,196	125,633	126,691	11,203	R 11,370	12,551
Texas	1,736,424	1,968,550	1,862,588	277,723	238,878	244,006
Utah	73,539	61,539	62,840	4,967	5,759	8,504
Vermont	4,453	4,215	3,939	427	499	469
Virginia	110,101	97,177	108,029	12,346	10,753	12,268
Washington	104,410	97,860	101,570	8,657	10,677	12,450
West Virginia	56,641	66,270	67,457	3,133	4,991	5,461
Wisconsin	198,654	192,993	207,804	12,063	12,287	18,242
Wyoming	25,946	22,972	23,335	2,259	R 2,611	3,230
Total	10,355,024	10,287,397	10,340,135	1,148,897	R 1,063,470	R 1,193,981

See footnotes at end of tables.

Table 26. Natural Gas Deliveries to All Consumers by State, 1989-1991 (Continued)
(Million Cubic Feet)

State	April 1991	March 1991	February 1991	January 1991	Total 1990	December 1990
Alabama	17,918	22,549	23,769	23,765	R 216,724	20,524
Alaska	12,748	13,817	13,398	15,293	148,804	15,765
Arizona	9,618	9,533	9,382	11,745	99,513	9,419
Arkansas	18,888	17,840	21,876	26,280	210,262	18,754
California	158,563	176,307	157,803	198,968	1,811,395	187,420
Colorado	R 20,332	R 25,413	R 30,969	R 36,098	212,146	23,185
Connecticut	8,792	11,599	12,353	13,612	97,209	11,166
Delaware	3,955	4,387	3,795	3,901	39,157	3,462
District of Columbia	2,875	4,209	4,852	4,908	29,434	3,516
Florida	28,161	28,676	25,716	28,215	317,001	26,365
Georgia	22,167	31,126	R 33,660	R 40,898	301,838	35,518
Hawaii	238	218	227	242	2,796	234
Idaho	4,035	4,382	5,045	6,402	40,418	5,174
Illinois	67,096	104,959	116,984	163,610	907,897	131,061
Indiana	33,795	49,290	55,230	68,717	439,896	53,666
Iowa	17,458	23,582	27,858	34,377	206,647	23,798
Kansas	23,443	28,514	31,929	41,738	271,274	27,018
Kentucky	10,907	17,303	21,379	25,618	155,849	20,650
Louisiana	107,525	105,333	102,503	113,385	1,254,398	101,250
Maine	400	506	531	512	4,350	456
Maryland	14,210	18,832	20,359	22,405	171,484	17,750
Massachusetts	25,392	27,732	28,787	30,528	258,504	24,358
Michigan	65,081	88,300	99,953	115,426	760,316	92,960
Minnesota	R 22,881	R 33,740	R 37,077	R 48,327	278,508	38,183
Mississippi	16,699	18,290	20,362	22,567	213,792	19,151
Missouri	17,067	28,305	36,117	46,769	241,103	29,653
Montana	3,361	4,276	4,356	7,149	39,124	5,815
Nebraska	7,310	10,226	12,652	17,499	107,050	13,195
Nevada	5,580	5,447	5,805	7,694	63,924	5,267
New Hampshire	1,393	1,753	2,038	1,934	14,252	1,509
New Jersey	43,463	48,928	54,191	60,891	426,420	46,398
New Mexico	9,590	11,034	12,546	14,192	102,432	11,081
New York	77,017	96,375	97,711	108,597	851,168	93,030
North Carolina	12,620	16,724	18,941	R 20,040	154,991	16,050
North Dakota	2,079	2,923	3,347	4,443	23,726	3,034
Ohio	59,725	88,226	100,516	112,456	707,553	87,898
Oklahoma	35,002	37,412	39,964	53,840	464,534	43,092
Oregon	9,391	9,970	10,461	14,242	101,458	10,635
Pennsylvania	53,376	69,819	76,507	87,936	611,815	69,779
Rhode Island	2,909	3,811	4,209	4,293	R 31,313	R 2,714
South Carolina	10,337	12,862	11,614	13,300	131,703	11,475
South Dakota	1,952	2,888	3,348	4,401	24,768	3,331
Tennessee	15,263	21,973	25,903	27,933	199,264	21,510
Texas	246,020	231,392	220,122	278,283	R 3,410,422	R 295,949
Utah	10,297	12,729	13,572	17,711	96,532	12,593
Vermont	555	766	852	885	6,761	731
Virginia	14,814	18,301	19,918	21,701	R 158,531	R 16,668
Washington	15,449	17,137	17,906	22,134	157,529	18,059
West Virginia	8,020	10,576	11,931	12,529	R 104,276	R 11,474
Wisconsin	25,432	37,039	41,369	52,222	309,783	41,152
Wyoming	3,732	3,782	4,577	5,755	37,638	4,825
Total	R 1,404,935	R 1,671,107	R 1,756,269	R 2,116,365	R 17,027,684	R 1,787,720

See footnotes at end of tables.

Table 26. Natural Gas Deliveries to All Consumers by State, 1989-1991 (Continued)
(Million Cubic Feet)

State	November 1990	October 1990	September 1990	August 1990	July 1990	June 1990
Alabama	17,412	14,917	14,207	14,663	14,078	14,310
Alaska	13,633	12,224	10,539	10,742	10,671	11,280
Arizona	5,409	5,053	5,829	5,827	8,052	8,414
Arkansas	16,932	14,327	14,247	15,430	16,745	15,482
California	143,380	133,571	145,607	138,685	151,180	129,285
Colorado	17,313	10,413	8,472	8,683	8,626	11,512
Connecticut	8,515	6,625	5,593	5,314	4,875	4,830
Delaware	3,182	2,347	2,687	3,537	2,810	2,910
District of Columbia	1,894	1,148	1,190	1,034	1,033	1,333
Florida	25,770	28,139	26,696	27,895	27,923	24,600
Georgia	27,424	22,838	19,290	18,590	16,207	17,630
Hawaii	230	225	224	220	244	238
Idaho	3,770	3,036	2,499	1,898	1,860	2,311
Illinois	83,520	68,109	39,723	36,096	36,897	39,020
Indiana	39,479	33,267	23,648	22,748	20,886	22,392
Iowa	17,710	13,417	10,126	9,567	9,459	11,232
Kansas	20,020	17,992	18,211	18,466	21,196	18,277
Kentucky	15,330	11,434	7,496	7,354	6,859	7,615
Louisiana	95,334	100,317	105,666	112,980	114,633	110,201
Maine	450	283	260	222	219	272
Maryland	12,942	11,688	11,001	11,612	9,342	9,560
Massachusetts	20,000	17,297	15,159	17,982	15,806	15,669
Michigan	68,717	51,235	34,950	34,312	31,098	36,456
Minnesota	25,998	18,427	12,888	11,942	11,508	12,154
Mississippi	19,209	19,525	18,460	21,087	20,640	15,650
Missouri	19,494	12,678	10,336	10,121	9,425	10,731
Montana	3,995	2,910	1,531	1,403	1,317	1,791
Nebraska	8,692	6,794	5,844	5,970	7,906	4,729
Nevada	3,805	4,528	4,864	4,977	5,758	5,114
New Hampshire	1,192	847	637	537	454	721
New Jersey	36,027	26,178	25,264	26,623	23,475	22,363
New Mexico	6,589	5,786	6,062	6,133	6,293	7,300
New York	75,410	63,132	52,728	52,630	49,275	50,372
North Carolina	13,434	11,054	9,887	9,626	8,552	9,237
North Dakota	2,164	1,330	880	743	743	1,009
Ohio	67,476	46,269	32,469	27,883	28,199	33,383
Oklahoma	31,715	32,497	36,541	39,033	37,714	35,935
Oregon	7,954	7,713	5,865	7,000	6,489	5,887
Pennsylvania	53,657	37,899	31,313	28,840	27,732	32,150
Rhode Island	R 2,496	R 2,473	R 2,300	R 2,205	R 1,482	1,736
South Carolina	10,580	10,808	12,453	12,991	11,854	8,746
South Dakota	2,266	1,551	990	944	910	1,165
Tennessee	18,448	10,415	11,421	11,837	11,560	11,942
Texas	R 253,706	R 291,086	R 286,435	R 314,695	R 292,658	R 317,433
Utah	8,511	5,885	3,931	4,070	4,065	5,263
Vermont	589	448	381	396	290	328
Virginia	R 13,408	R 12,214	R 9,429	R 9,636	R 9,277	R 8,973
Washington	14,197	10,634	8,555	8,225	8,823	10,798
West Virginia	9,088	6,439	5,536	5,470	5,564	6,036
Wisconsin	28,197	21,220	13,745	12,477	11,558	13,808
Wyoming	3,537	2,550	1,770	1,983	2,072	2,491
Total	R 1,400,203	R 1,253,194	R 1,135,837	R 1,163,333	R 1,136,292	R 1,152,075

See footnotes at end of tables.

Table 26. Natural Gas Deliveries to All Consumers by State, 1989-1991 (Continued)
(Million Cubic Feet)

State	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	16,080	19,520	R 20,669	R 21,762	R 28,583	225,178
Alaska	10,400	12,524	13,616	13,723	13,688	127,414
Arizona	7,580	7,919	10,923	12,329	12,757	127,177
Arkansas	15,446	18,937	18,946	19,774	25,242	228,392
California	123,710	146,464	152,934	172,820	186,341	1,799,042
Colorado	16,442	21,087	26,643	28,386	31,384	218,766
Connecticut	6,222	9,233	10,713	11,588	12,536	94,487
Delaware	2,798	3,150	4,051	3,737	4,486	34,919
District of Columbia	1,853	2,990	3,882	4,167	5,395	33,174
Florida	27,810	26,277	26,162	23,381	25,983	310,493
Georgia	20,083	23,588	29,759	31,567	39,345	309,970
Hawaii	227	230	244	241	239	2,694
Idaho	2,781	3,020	4,258	4,779	5,030	40,679
Illinois	54,578	78,154	99,716	113,104	127,918	978,413
Indiana	29,845	38,924	46,295	48,949	59,797	453,526
Iowa	14,126	19,081	22,970	24,581	30,580	215,294
Kansas	18,395	23,694	26,671	27,884	33,450	254,362
Kentucky	9,273	13,461	15,905	18,716	21,756	165,562
Louisiana	104,258	102,337	103,428	96,615	107,378	1,227,060
Maine	340	538	385	455	470	3,672
Maryland	9,955	15,483	18,626	19,023	24,503	187,512
Massachusetts	21,700	27,311	25,843	25,724	31,656	247,205
Michigan	49,407	70,331	89,789	93,426	107,632	749,612
Minnesota	16,830	24,046	31,667	35,239	39,626	287,997
Mississippi	14,857	14,594	15,246	15,356	20,017	188,597
Missouri	14,453	22,967	27,202	30,646	43,397	256,105
Montana	2,602	3,163	4,037	4,937	5,622	41,575
Nebraska	6,171	9,174	11,128	12,841	14,607	115,293
Nevada	4,969	5,098	6,238	6,448	6,857	62,950
New Hampshire	1,073	1,509	1,622	1,897	2,254	13,925
New Jersey	25,750	41,231	48,481	47,095	57,534	453,110
New Mexico	7,899	9,149	11,024	11,696	13,418	101,126
New York	57,758	76,513	95,211	92,081	93,027	839,957
North Carolina	10,967	13,603	15,841	15,717	21,023	156,105
North Dakota	1,555	2,373	2,826	3,309	3,759	24,959
Ohio	44,539	64,694	82,691	90,858	101,193	799,852
Oklahoma	34,875	38,057	39,711	43,109	52,254	468,488
Oregon	6,669	7,157	10,123	14,065	11,901	99,448
Pennsylvania	39,207	59,036	69,163	72,959	90,080	649,804
Rhode Island	R 2,666	R 3,012	R 3,162	R 3,074	R 3,993	33,821
South Carolina	8,615	9,626	10,832	10,131	13,593	114,237
South Dakota	1,624	2,179	2,847	3,306	3,655	25,263
Tennessee	13,929	17,356	19,493	21,488	29,865	203,588
Texas	R 315,624	R 278,201	R 262,297	R 226,863	R 275,474	3,225,961
Utah	6,429	7,626	11,469	13,163	13,524	96,288
Vermont	447	631	773	792	954	6,145
Virginia	R 9,789	R 13,562	R 16,548	17,030	R 21,998	167,450
Washington	11,876	12,714	16,717	18,824	18,108	158,420
West Virginia	7,569	9,843	11,124	11,566	14,568	110,452
Wisconsin	19,984	26,244	36,571	39,496	45,332	326,613
Wyoming	2,760	3,265	3,779	4,082	4,523	36,633
Total	R 1,254,796	R 1,460,877	R 1,640,253	R 1,684,801	R 1,958,303	17,098,767

R = Revised Data.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Explanatory Note 5 for discussion of computations and revision policy.
Sources: Form EIA-857 and Form EIA-759.

Table 27. Average City Gate Price by State, 1989-1991
(Dollars per Thousand Cubic Feet)

State	YTD 1991	YTD 1990	YTD 1989	July 1991	June 1991	May 1991	April 1991	March 1991
Alabama	3.14	3.07	2.97	2.80	2.92	2.95	2.93	2.92
Alaska	.33	.33	.33	.32	.33	.33	.34	.33
Arizona	2.47	2.71	2.63	2.30	2.45	2.84	2.31	2.24
Arkansas	2.51	2.45	2.47	2.41	2.51	2.33	2.41	2.54
California	2.75	2.90	2.73	2.71	2.78	2.63	2.69	2.64
Colorado	2.84	2.92	3.02	3.48	3.56	3.09	2.93	2.82
Connecticut	3.48	3.57	3.43	4.22	3.43	3.10	2.78	3.50
Delaware	2.48	2.72	2.97	2.21	2.15	2.38	2.33	2.48
District of Columbia	--	--	--	--	--	--	--	--
Florida	2.47	2.63	2.62	2.16	2.37	2.45	2.26	2.42
Georgia	3.52	3.50	3.65	3.06	2.84	2.79	2.73	3.63
Hawaii	8.64	6.87	6.48	8.76	7.22	8.57	8.18	8.62
Idaho	2.17	2.11	2.14	2.07	2.61	2.43	2.11	2.10
Illinois	2.91	3.11	3.06	2.46	2.53	2.51	2.84	3.09
Indiana	3.09	3.17	3.24	2.85	3.29	2.87	3.02	2.88
Iowa	2.59	2.93	2.85	3.27	2.58	2.82	2.34	2.44
Kansas	2.62	2.82	2.05	2.01	2.40	2.44	2.32	2.69
Kentucky	2.95	3.28	3.11	2.48	3.11	3.35	3.26	2.90
Louisiana	2.65	2.97	2.96	2.38	2.52	2.53	2.50	2.68
Maine	3.01	3.03	3.26	2.53	2.78	2.68	2.48	2.40
Maryland	2.89	3.02	3.25	4.17	3.92	2.91	2.57	2.60
Massachusetts	3.31	3.24	3.11	2.84	2.54	3.21	3.10	3.07
Michigan	3.06	3.16	3.36	2.65	2.86	2.82	2.91	3.37
Minnesota	2.53	2.86	2.75	3.19	2.85	2.71	2.39	2.42
Mississippi	2.57	2.92	3.10	2.24	2.33	2.34	2.34	2.51
Missouri	2.86	3.19	2.92	2.88	3.04	3.00	2.69	2.92
Montana	3.74	3.20	3.59	4.38	R 4.07	3.81	3.54	3.63
Nebraska	2.73	2.98	2.95	2.97	2.92	2.92	2.70	2.70
Nevada	2.37	2.97	3.47	2.52	2.30	2.32	2.08	2.22
New Hampshire	3.42	3.56	3.27	2.87	3.00	2.86	2.74	3.13
New Jersey	3.02	3.16	3.14	2.88	3.30	3.00	2.89	2.61
New Mexico	2.57	2.71	2.59	3.01	2.90	2.72	2.94	2.23
New York	2.89	3.02	3.01	2.53	2.69	2.64	2.77	2.79
North Carolina	2.68	2.86	3.10	3.22	2.75	2.81	2.82	2.51
North Dakota	3.48	2.99	3.27	4.33	3.93	3.62	3.32	3.28
Ohio	3.08	3.05	3.27	3.29	3.42	3.31	2.90	3.00
Oklahoma	1.98	2.04	2.07	1.69	R 1.92	1.78	1.78	2.00
Oregon	2.37	2.51	2.58	2.64	2.37	2.30	2.20	2.29
Pennsylvania	3.21	3.40	3.27	3.98	R 4.09	4.04	3.17	2.88
Rhode Island	3.63	3.69	3.64	3.95	3.73	3.62	3.55	3.35
South Carolina	2.98	3.22	3.57	2.05	3.08	3.00	3.23	2.77
South Dakota	3.11	3.10	3.15	3.65	R 3.71	3.14	2.85	2.98
Tennessee	2.63	2.84	2.75	2.59	2.81	2.83	2.64	2.44
Texas	2.99	3.10	3.30	2.62	2.73	2.64	2.81	2.81
Utah	3.98	3.82	3.48	5.30	5.43	4.43	4.28	3.95
Vermont	2.83	2.87	2.60	2.90	2.62	2.97	3.07	2.69
Virginia	2.73	3.08	3.13	2.43	2.52	3.01	2.69	2.53
Washington	1.86	1.97	2.26	1.90	1.74	1.65	1.76	1.89
West Virginia	3.53	3.58	3.70	6.80	3.49	R 4.87	R 4.24	4.15
Wisconsin	3.11	3.33	3.71	3.80	3.78	3.08	2.77	2.82
Wyoming	3.20	3.11	3.02	3.68	3.72	3.39	3.08	3.11
Total	2.88	3.02	3.01	2.76	R 2.85	2.77	2.75	2.79

See footnotes at end of table

Table 27. Average City Gate Price by State, 1989-1991 (Continued)
(Dollars per Thousand Cubic Feet)

State	February 1991	January 1991	Total 1990	December 1990	November 1990	October 1990	September 1990	August 1990
Alabama	3.41	3.50	3.13	3.20	3.18	3.02	2.94	3.91
Alaska	.33	.33	.34	.35	.33	.33	.38	.35
Arizona	2.32	2.71	2.73	2.80	2.82	2.75	2.60	2.66
Arkansas	2.55	2.60	2.41	2.44	2.51	2.28	2.31	2.04
California	2.84	2.91	2.90	2.99	2.96	2.82	2.84	2.87
Colorado	2.69	2.64	2.94	2.79	2.90	3.06	3.38	3.39
Connecticut	3.82	3.56	3.66	3.89	3.94	3.64	3.72	3.59
Delaware	2.82	3.28	2.76	3.46	3.62	2.54	2.49	2.30
District of Columbia	--	--	--	--	--	--	--	--
Florida	2.55	2.87	2.71	3.17	3.00	2.90	2.65	2.32
Georgia	3.98	3.99	3.43	3.47	3.52	3.10	3.08	3.05
Hawaii	9.99	9.17	7.67	10.09	10.42	9.65	7.54	6.28
Idaho	2.24	2.03	2.08	2.01	1.95	1.96	2.44	2.24
Illinois	3.27	3.38	3.09	3.56	3.40	2.62	2.80	2.64
Indiana	3.18	3.30	3.15	3.45	3.27	2.84	2.89	2.78
Iowa	2.55	2.59	2.86	2.89	2.69	2.49	2.87	2.85
Kansas	2.66	2.88	2.76	3.10	2.42	2.45	2.48	2.31
Kentucky	2.89	2.97	3.07	3.13	3.04	2.57	2.38	2.48
Louisiana	2.68	2.87	2.97	3.24	3.17	2.79	2.64	2.58
Maine	3.77	3.98	3.06	3.94	2.91	2.91	2.92	2.67
Maryland	2.73	2.99	3.16	3.20	3.53	3.12	3.57	3.85
Massachusetts	3.86	3.89	3.34	4.18	3.59	3.09	3.35	2.84
Michigan	3.39	3.47	3.12	3.18	3.18	3.06	2.96	2.95
Minnesota	2.11	2.69	2.83	2.89	2.75	2.43	2.91	2.87
Mississippi	2.75	2.86	2.89	3.02	2.98	2.70	2.65	2.65
Missouri	2.67	2.92	3.14	3.06	3.18	2.78	3.35	2.97
Montana	3.78	3.73	3.30	3.49	3.52	3.32	3.40	3.15
Nebraska	2.59	2.72	2.95	2.97	2.90	2.62	3.11	2.93
Nevada	2.43	2.54	2.75	2.46	2.62	2.33	2.50	2.67
New Hampshire	3.99	4.05	3.51	4.17	3.49	2.85	2.92	2.95
New Jersey	3.17	3.32	3.23	3.39	3.46	3.18	3.26	3.27
New Mexico	2.43	2.50	2.63	2.43	3.17	2.36	2.58	2.00
New York	2.92	3.36	3.05	3.54	3.28	2.66	2.79	2.74
North Carolina	2.53	2.68	2.88	3.06	2.78	3.00	2.86	2.74
North Dakota	3.38	3.52	3.07	3.42	3.23	2.81	3.05	2.74
Ohio	3.09	3.07	3.09	3.27	3.34	2.86	2.66	2.88
Oklahoma	1.98	2.18	2.03	2.24	2.17	1.86	1.69	1.74
Oregon	2.56	2.39	2.47	2.38	2.55	2.30	2.54	2.53
Pennsylvania	2.99	3.09	3.47	3.24	3.54	3.77	4.12	4.17
Rhode Island	3.66	3.74	3.71	3.91	3.74	3.44	3.59	3.84
South Carolina	3.40	3.45	3.14	3.66	3.40	2.85	2.46	2.64
South Dakota	3.01	3.16	3.12	3.21	3.08	2.82	3.48	3.46
Tennessee	2.44	2.79	2.88	3.27	3.10	2.55	2.67	2.56
Texas	3.16	3.40	3.14	3.50	3.29	2.72	2.88	3.14
Utah	3.76	3.57	3.91	3.55	4.06	4.38	5.26	4.87
Vermont	2.89	2.78	2.88	2.82	2.99	2.98	2.95	2.76
Virginia	2.77	2.92	3.09	3.44	3.45	2.77	2.74	2.60
Washington	1.87	2.02	1.95	1.98	1.96	1.85	1.89	1.84
West Virginia	2.83	3.05	3.54	3.14	3.03	3.41	5.52	5.76
Wisconsin	3.01	3.30	3.34	3.40	3.27	3.04	3.46	3.99
Wyoming	3.15	3.12	3.00	2.77	2.68	2.56	3.37	3.88
Total	2.94	3.08	3.03	3.19	3.14	2.81	2.92	2.91

See footnotes at end of table.

Table 27. Average City Gate Price by State, 1989-1991 (Continued)
(Dollars per Thousand Cubic Feet)

State	July 1990	June 1990	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	2.95	3.09	2.96	2.93	3.03	3.22	3.15	3.00
Alaska	.33	.33	.33	.33	.33	.33	.33	.33
Arizona	2.70	2.67	2.39	2.54	2.51	2.60	3.13	2.67
Arkansas	2.29	2.34	2.34	2.36	2.50	2.50	2.55	2.47
California	3.23	2.90	2.83	2.79	2.70	2.87	3.02	2.75
Colorado	3.40	3.46	3.19	2.88	2.79	2.80	2.85	2.96
Connecticut	3.78	3.47	3.10	3.21	3.50	3.79	3.86	3.46
Delaware	2.42	2.44	2.97	2.41	2.91	3.16	2.84	2.82
District of Columbia	--	--	--	--	--	--	--	--
Florida	2.31	2.37	2.45	2.48	2.57	2.98	3.05	2.63
Georgia	3.16	3.24	2.96	3.19	3.62	3.84	3.73	3.54
Hawaii	5.85	6.24	7.29	6.96	7.24	7.27	7.18	6.49
Idaho	2.20	2.77	2.15	2.09	1.92	1.98	2.10	2.17
Illinois	2.57	2.75	2.46	2.85	3.28	3.72	3.91	2.99
Indiana	3.38	3.50	3.12	2.80	3.10	2.93	3.57	3.13
Iowa	2.98	3.06	2.79	2.48	2.62	2.77	3.55	2.80
Kansas	2.27	2.25	2.42	2.87	3.09	2.83	3.09	2.28
Kentucky	2.74	3.05	3.29	3.29	3.34	3.36	3.45	3.01
Louisiana	2.73	2.64	2.84	2.82	2.85	3.20	3.29	2.98
Maine	2.72	3.05	2.79	2.69	3.06	3.59	3.13	3.23
Maryland	4.11	3.99	3.45	2.80	2.60	3.04	2.90	3.20
Massachusetts	2.81	3.28	2.84	2.96	3.28	3.73	3.51	3.20
Michigan	3.14	3.04	2.52	3.11	3.48	3.43	3.36	3.24
Minnesota	3.09	3.22	2.66	2.35	2.60	2.72	3.40	2.72
Mississippi	2.65	2.77	2.64	2.67	2.81	3.11	3.30	3.08
Missouri	3.57	3.55	3.40	2.71	3.16	3.21	3.24	3.00
Montana	3.21	3.26	2.97	3.13	3.18	3.27	3.26	3.43
Nebraska	3.10	3.20	2.85	2.59	2.78	2.76	3.50	2.91
Nevada	3.00	2.68	2.38	2.64	3.14	3.05	3.23	3.33
New Hampshire	3.32	3.12	2.91	3.06	3.44	4.12	4.02	3.28
New Jersey	3.14	3.11	2.81	2.88	3.07	3.47	3.57	3.17
New Mexico	3.06	3.41	3.40	2.40	2.37	2.54	2.72	2.66
New York	2.77	2.76	2.63	2.92	2.98	3.23	3.37	3.07
North Carolina	2.86	2.93	2.92	2.64	2.60	2.94	3.09	3.01
North Dakota	3.12	3.03	2.83	2.86	2.94	3.13	3.00	3.12
Ohio	3.03	3.12	3.03	2.74	3.16	3.16	3.01	3.31
Oklahoma	1.73	1.86	1.83	2.01	2.03	2.14	2.19	2.07
Oregon	2.61	2.90	2.51	2.55	2.43	2.38	2.53	2.67
Pennsylvania	4.17	3.74	3.51	3.39	3.18	3.28	3.36	3.26
Rhode Island	4.21	4.07	3.79	3.32	3.61	3.71	3.68	3.68
South Carolina	2.65	3.15	3.24	3.12	3.20	3.45	3.54	3.46
South Dakota	3.45	3.61	3.04	2.66	2.89	2.97	3.44	3.04
Tennessee	2.86	2.77	2.75	2.52	2.68	2.76	3.16	2.81
Texas	R 2.87	R 2.85	2.93	3.01	3.12	3.26	3.33	3.33
Utah	5.27	5.23	4.75	4.55	3.75	3.33	3.37	3.59
Vermont	3.49	3.42	2.84	2.70	2.86	2.77	2.70	2.59
Virginia	3.20	3.68	2.97	2.61	2.67	3.16	3.40	3.13
Washington	1.88	1.83	1.71	1.82	1.84	2.05	2.32	2.20
West Virginia	5.31	4.89	3.95	3.52	3.03	3.54	3.32	3.75
Wisconsin	3.90	3.87	3.22	3.05	3.10	3.38	3.40	3.40
Wyoming	3.27	3.63	4.65	2.86	2.88	2.94	2.81	2.99
Total	3.03	3.00	2.81	2.83	2.94	3.10	3.24	3.01

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 Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857.

Table 28. Average Price of Natural Gas Delivered to Residential Consumers by State, 1989-1991
(Dollars per Thousand Cubic Feet)

State	YTD 1991	YTD 1990	YTD 1989	July 1991	June 1991	May 1991	April 1991	March 1991
Alabama	7.02	6.20	6.02	8.78	8.90	8.59	7.45	6.73
Alaska	4.27	3.79	3.61	4.69	4.49	4.36	4.25	4.22
Arizona	6.67	6.66	6.79	8.51	8.22	7.40	6.54	6.62
Arkansas	4.86	4.85	4.69	6.74	6.22	5.96	5.09	4.84
California	6.29	5.73	5.58	6.53	6.69	6.34	5.91	6.05
Colorado	4.44	4.43	4.50	5.87	5.37	4.64	4.47	4.35
Connecticut	8.74	8.49	8.11	11.03	10.05	10.51	8.78	8.47
Delaware	6.01	6.33	6.32	7.80	7.53	6.50	5.86	6.13
District of Columbia	6.98	7.52	7.40	6.27	5.93	7.27	7.18	6.86
Florida	9.11	8.05	7.88	10.67	10.71	10.43	9.29	8.47
Georgia	6.79	6.83	6.21	8.15	8.03	7.91	7.76	6.64
Hawaii	18.16	15.85	15.40	17.28	17.59	17.22	17.18	18.69
Idaho	5.14	4.91	4.96	6.34	6.07	5.41	5.29	5.12
Illinois	5.07	5.07	5.00	6.53	6.30	5.66	5.09	4.71
Indiana	5.69	5.72	5.77	6.86	6.80	6.42	5.79	5.26
Iowa	4.67	4.93	4.59	7.04	6.25	5.01	4.61	4.28
Kansas	4.29	4.42	4.00	5.80	5.54	4.94	4.40	4.19
Kentucky	4.87	4.89	4.65	6.74	6.35	5.72	5.11	4.64
Louisiana	5.48	5.74	5.59	6.95	6.72	6.54	5.52	5.15
Maine	6.76	7.76	6.95	7.39	6.95	7.01	6.87	6.69
Maryland	6.08	6.28	6.21	7.43	7.33	6.92	6.09	5.79
Massachusetts	7.98	7.70	7.06	7.94	7.36	6.52	8.49	8.18
Michigan	5.00	4.91	5.20	6.70	6.14	5.37	4.97	4.84
Minnesota	4.35	4.57	4.54	5.14	5.05	4.49	4.24	4.13
Mississippi	5.15	5.17	5.12	5.68	5.78	6.03	5.46	5.06
Missouri	5.04	5.06	4.71	7.52	7.26	5.88	5.07	4.70
Montana	4.50	4.42	4.38	5.76	5.23	4.61	4.50	4.41
Nebraska	4.49	4.50	4.42	5.40	5.31	4.24	4.54	4.22
Nevada	5.44	5.52	5.45	6.77	6.18	5.80	5.38	5.40
New Hampshire	7.05	7.38	6.75	7.88	7.40	6.72	7.22	7.05
New Jersey	6.72	6.51	6.38	9.04	8.90	7.98	7.11	6.76
New Mexico	5.31	5.47	5.53	7.52	6.95	6.05	5.34	5.21
New York	7.41	7.27	7.08	9.85	R 9.21	7.78	7.14	7.05
North Carolina	5.96	5.99	6.52	8.76	8.21	7.06	6.03	5.62
North Dakota	4.66	4.59	4.62	6.97	5.85	4.84	4.65	4.49
Ohio	5.30	5.19	5.40	6.87	6.60	5.82	5.28	5.05
Oklahoma	4.61	4.61	4.26	6.37	6.02	5.46	4.77	4.43
Oregon	6.05	6.19	6.10	6.95	6.38	6.21	6.03	5.98
Pennsylvania	6.66	6.43	5.95	8.89	8.43	7.44	6.64	6.42
Rhode Island	7.47	7.06	7.06	9.17	8.92	8.02	7.63	7.30
South Carolina	7.14	7.01	6.66	8.78	8.15	7.65	7.11	6.91
South Dakota	4.81	4.97	4.79	6.23	5.84	4.98	4.78	4.54
Tennessee	5.08	4.98	4.72	6.69	6.53	6.01	5.36	4.92
Texas	5.64	5.63	5.49	7.08	6.91	6.77	6.10	5.45
Utah	5.39	5.19	5.01	6.13	5.59	5.09	5.31	5.60
Vermont	6.06	5.58	5.57	7.42	6.96	6.30	5.97	5.86
Virginia	6.76	6.47	6.51	9.05	8.01	7.94	6.62	6.32
Washington	4.58	5.07	5.42	6.12	5.29	4.97	4.75	4.36
West Virginia	6.58	6.36	5.49	8.96	8.66	7.37	6.64	6.34
Wisconsin	5.64	5.71	5.66	5.76	6.27	5.30	6.18	5.44
Wyoming	4.64	4.80	4.62	5.92	5.23	4.70	4.63	4.55
Total	5.79	5.70	5.59	7.23	R 6.97	6.28	5.88	5.60

See footnotes at end of table.

Table 28. Average Price of Natural Gas Delivered to Residential Consumers by State, 1989-1991 (Continued)
(Dollars per Thousand Cubic Feet)

State	February 1991	January 1991	Total 1990	December 1990	November 1990	October 1990	September 1990	August 1990
Alabama	6.47	6.51	6.47	6.33	6.74	8.32	8.57	8.57
Alaska	4.18	4.17	3.79	3.68	3.73	3.87	4.12	4.29
Arizona	6.41	6.17	6.88	6.35	7.38	8.70	9.12	9.37
Arkansas	4.55	4.38	4.99	4.71	4.93	6.01	6.56	6.83
California	6.04	6.61	5.78	5.99	5.36	6.15	6.04	5.90
Colorado	4.25	4.19	4.53	4.29	4.50	5.29	5.97	5.95
Connecticut	8.23	8.27	8.58	8.25	8.35	9.07	10.27	10.46
Delaware	5.20	6.14	6.51	6.40	6.86	7.79	8.08	8.35
District of Columbia	7.18	7.00	7.51	7.14	7.41	8.25	8.67	6.97
Florida	8.41	8.45	8.57	8.92	9.92	10.43	9.92	9.93
Georgia	6.47	6.19	6.90	6.45	7.08	7.36	7.90	8.23
Hawaii	19.32	19.57	16.46	20.15	18.91	17.06	15.41	15.11
Idaho	4.97	4.83	5.05	4.96	5.30	5.59	6.27	6.61
Illinois	4.97	4.93	5.02	4.80	4.69	4.89	5.66	6.14
Indiana	5.85	5.43	5.54	5.07	5.15	4.78	6.22	6.54
Iowa	4.36	4.67	5.05	4.99	4.96	5.44	6.75	6.88
Kansas	4.09	4.00	4.49	4.26	4.52	5.20	5.60	5.70
Kentucky	4.68	4.59	4.91	4.74	4.66	5.20	5.93	6.27
Louisiana	5.00	5.26	6.10	6.34	6.77	7.23	7.49	7.72
Maine	6.60	6.59	7.61	6.77	7.04	7.84	8.21	8.37
Maryland	5.84	5.80	6.41	5.98	6.42	7.36	8.06	8.16
Massachusetts	8.09	8.05	7.84	8.29	8.53	7.24	8.11	8.29
Michigan	4.81	4.79	5.00	4.74	4.94	5.39	6.25	6.56
Minnesota	R 3.97	4.60	4.63	4.85	4.75	4.56	4.55	4.63
Mississippi	4.90	4.88	5.21	5.06	5.29	5.51	5.60	5.52
Missouri	4.77	4.78	5.21	5.02	5.21	6.04	7.14	7.06
Montana	4.38	4.30	4.57	4.47	4.66	5.12	5.72	5.91
Nebraska	4.27	4.62	4.60	4.76	4.74	4.77	5.06	5.14
Nevada	5.18	5.16	5.66	5.26	5.78	6.69	7.15	7.35
New Hampshire	6.96	6.97	7.41	7.14	7.37	7.77	8.07	8.53
New Jersey	6.01	6.04	6.56	6.02	5.67	7.99	8.43	8.92
New Mexico	4.91	4.83	5.67	5.17	6.08	7.51	7.92	7.81
New York	7.20	7.19	7.48	7.43	7.49	8.47	9.11	9.71
North Carolina	5.56	5.75	6.14	5.95	6.14	7.45	8.38	8.40
North Dakota	4.50	4.46	4.70	4.57	4.65	5.23	6.19	6.82
Ohio	5.16	5.12	5.26	5.20	5.24	5.40	6.12	6.52
Oklahoma	4.39	4.29	4.75	4.42	4.92	5.87	6.58	6.73
Oregon	5.92	5.91	6.26	6.01	6.27	6.89	7.55	7.39
Pennsylvania	6.45	6.27	6.59	6.39	6.70	7.34	8.23	8.64
Rhode Island	7.09	7.08	7.21	7.21	7.44	8.01	8.18	8.35
South Carolina	7.06	7.05	7.20	7.35	7.49	8.02	8.68	8.88
South Dakota	4.49	4.88	5.13	5.35	5.19	5.40	6.20	6.47
Tennessee	4.90	4.79	5.10	5.07	5.16	5.80	6.50	6.56
Texas	5.22	5.19	5.79	5.45	5.90	6.60	7.21	7.30
Utah	5.42	5.24	5.28	5.29	5.36	5.58	5.95	5.93
Vermont	5.97	5.96	5.79	6.06	6.24	6.42	6.79	7.11
Virginia	6.53	6.57	6.79	6.70	7.38	8.53	8.74	8.78
Washington	4.32	4.25	5.03	4.34	4.74	5.54	6.70	7.06
West Virginia	6.30	6.29	R 6.60	R 7.02	6.56	7.28	8.38	8.72
Wisconsin	5.44	5.69	5.73	5.84	5.51	5.52	6.12	6.44
Wyoming	4.49	4.50	4.88	4.65	4.93	5.56	6.30	5.75
Total	5.55	5.53	5.77	R 5.60	5.66	6.11	6.86	7.04

See footnotes at end of table

Table 28. Average Price of Natural Gas Delivered to Residential Consumers by State, 1989-1991 (Continued)
(Dollars per Thousand Cubic Feet)

State	July 1990	June 1990	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	8.49	8.14	7.11	6.38	6.12	5.92	5.53	6.27
Alaska	4.30	4.10	3.93	3.79	3.71	3.68	3.70	3.63
Arizona	9.10	8.37	7.77	7.02	6.38	6.20	6.17	6.94
Arkansas	6.64	6.24	5.39	4.84	4.81	4.66	4.41	4.85
California	6.07	6.22	5.96	5.07	5.64	5.77	5.72	5.59
Colorado	5.85	5.04	4.55	4.37	4.27	4.25	4.30	4.63
Connecticut	10.09	9.91	9.25	8.39	8.22	8.24	8.17	8.25
Delaware	8.09	7.74	6.84	6.35	6.18	6.15	5.95	6.42
District of Columbia	6.98	6.81	7.37	7.21	8.05	7.84	7.37	7.44
Florida	9.65	9.35	8.97	8.35	8.18	8.01	6.95	8.06
Georgia	8.15	7.78	7.40	6.38	6.75	6.89	6.45	6.24
Hawaii	14.96	15.68	16.32	16.28	16.12	15.79	15.81	15.66
Idaho	6.32	5.47	5.34	5.17	4.83	4.68	4.64	5.05
Illinois	6.15	5.79	5.17	4.88	4.98	5.25	4.75	4.92
Indiana	6.77	6.60	5.98	5.56	5.50	5.54	5.75	5.51
Iowa	6.66	5.61	4.89	4.51	4.62	4.95	5.05	4.70
Kansas	5.64	5.17	4.63	4.40	4.34	4.32	4.21	4.17
Kentucky	6.46	5.85	5.50	4.78	4.61	4.75	4.70	4.68
Louisiana	7.49	7.32	6.20	6.11	5.01	5.90	5.18	5.97
Maine	8.31	7.56	7.77	8.27	8.08	7.95	7.00	7.16
Maryland	7.93	7.40	6.78	6.11	6.17	6.29	5.81	6.30
Massachusetts	7.87	6.95	6.73	8.39	8.12	8.02	7.25	7.16
Michigan	6.65	5.88	5.26	4.86	4.76	4.72	4.66	5.19
Minnesota	5.07	4.77	4.40	4.12	4.23	4.57	4.98	4.57
Mississippi	5.43	5.37	5.57	5.01	5.30	5.25	4.97	5.10
Missouri	6.65	6.11	5.30	5.07	5.02	4.99	4.73	4.84
Montana	5.76	4.94	4.62	4.45	4.33	4.24	4.23	4.37
Nebraska	5.26	5.04	4.54	4.23	4.22	4.44	4.66	4.48
Nevada	7.08	6.48	6.35	6.03	5.46	5.05	5.07	5.55
New Hampshire	8.32	7.51	7.08	7.77	7.63	7.60	6.76	6.85
New Jersey	8.59	8.08	7.35	6.69	6.46	6.43	5.63	6.51
New Mexico	7.58	6.95	6.02	5.51	5.23	5.20	5.10	5.73
New York	9.12	8.22	7.72	7.16	6.99	7.26	6.84	7.22
North Carolina	8.33	7.90	6.79	5.83	5.81	5.77	5.69	6.55
North Dakota	6.48	5.45	4.85	4.54	4.50	4.39	4.38	4.68
Ohio	6.48	5.93	5.21	5.28	4.97	5.06	5.06	5.32
Oklahoma	6.66	6.20	5.21	4.62	4.47	4.38	4.18	4.50
Oregon	7.01	6.55	6.40	6.24	6.06	6.07	6.06	6.19
Pennsylvania	8.48	7.57	6.98	6.44	6.27	6.22	6.07	6.14
Rhode Island	8.34	7.74	7.34	7.07	6.88	6.93	6.83	7.13
South Carolina	8.74	8.29	7.32	6.98	6.92	6.86	6.86	6.73
South Dakota	6.81	5.93	5.12	4.72	4.67	4.82	4.98	4.85
Tennessee	6.29	5.90	5.34	4.98	4.98	4.99	4.70	4.83
Texas	7.13	6.86	6.49	5.98	5.62	5.36	4.96	5.55
Utah	5.81	5.30	5.28	5.44	5.15	5.05	5.08	5.14
Vermont	7.00	6.20	5.84	5.58	5.47	5.45	5.40	5.62
Virginia	8.70	7.49	7.14	6.19	6.02	6.53	6.22	6.59
Washington	6.49	5.61	5.28	5.09	4.91	4.86	4.92	5.49
West Virginia	8.30	7.37	6.83	6.31	6.25	6.19	6.09	5.73
Wisconsin	6.53	5.83	5.62	5.54	5.79	5.81	5.54	5.64
Wyoming	5.78	4.82	4.93	4.80	4.74	4.74	4.68	4.71
Total	7.01	6.54	5.98	5.62	5.58	5.62	5.41	5.64

R = Revised Data

Notes: Data for 1989 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. See Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857.

Table 29. Average Price of Natural Gas Sold to Commercial Consumers by State, 1989-1991
(Dollars per Thousand Cubic Feet)

State	YTD 1991	YTD 1990	YTD 1989	July 1991	June 1991	May 1991	April 1991	March 1991
Alabama	5.79	5.27	5.09	5.32	5.59	5.81	5.97	6.07
Alaska	3.00	2.64	2.67	2.72	2.84	2.93	3.00	3.00
Arizona	4.93	4.78	4.77	4.98	5.05	4.88	4.86	4.99
Arkansas	4.31	4.37	4.32	4.60	4.46	4.57	4.45	4.39
California	5.69	5.20	4.90	4.88	5.17	4.71	5.60	6.29
Colorado	3.96	3.92	4.01	4.34	4.19	4.02	3.97	3.93
Connecticut	6.61	6.42	6.04	6.13	5.85	6.94	6.35	6.72
Delaware	5.03	5.43	5.38	5.02	5.18	5.05	5.03	5.18
District of Columbia	5.20	5.76	5.33	4.64	4.45	4.76	5.53	4.88
Florida	4.96	4.88	4.85	4.49	5.26	4.68	4.64	4.79
Georgia	5.76	5.80	5.44	5.30	5.37	5.61	6.16	5.86
Hawaii	13.61	11.76	11.29	12.48	12.94	12.65	12.89	14.22
Idaho	4.35	4.05	4.16	4.60	4.89	4.55	4.52	4.26
Illinois	4.71	4.77	4.64	5.21	5.30	R 5.16	4.64	4.45
Indiana	4.82	4.98	5.04	4.76	4.83	4.80	4.96	4.45
Iowa	3.88	4.16	3.88	3.98	4.01	3.81	3.78	3.65
Kansas	3.66	3.60	3.13	3.22	R 3.64	3.69	3.55	3.73
Kentucky	4.47	4.52	4.34	5.06	4.69	4.59	4.61	4.41
Louisiana	4.86	5.16	5.02	4.96	4.90	4.91	4.47	4.62
Maine	6.00	6.99	6.19	5.74	5.71	5.89	6.17	6.06
Maryland	5.11	5.34	5.38	4.88	4.95	5.10	5.06	5.11
Massachusetts	5.93	6.36	5.98	2.66	5.02	4.29	6.55	6.64
Michigan	4.71	4.64	4.88	5.53	5.27	4.83	4.60	4.63
Minnesota	3.72	4.01	4.00	3.44	R 3.65	R 3.57	3.56	3.57
Mississippi	4.26	4.41	4.83	3.90	3.90	4.32	4.28	4.34
Missouri	4.50	4.60	4.29	5.03	4.95	4.48	4.25	4.32
Montana	4.35	4.28	4.40	4.77	4.63	4.37	4.34	4.28
Nebraska	3.88	3.81	3.80	3.53	3.58	3.68	3.79	3.71
Nevada	4.30	4.36	4.44	4.27	4.18	4.21	4.23	4.32
New Hampshire	6.36	6.85	6.18	5.96	5.91	5.82	6.57	6.48
New Jersey	5.39	5.49	5.27	4.65	5.22	5.06	5.68	5.88
New Mexico	4.16	4.41	3.70	4.42	4.29	R 4.26	4.23	4.16
New York	5.57	5.69	5.75	4.83	R 5.33	5.38	5.39	5.46
North Carolina	4.55	4.63	5.19	4.41	4.33	4.39	4.49	4.51
North Dakota	4.22	4.18	4.20	4.92	4.51	4.20	4.13	4.08
Ohio	4.83	4.61	4.97	5.09	5.06	4.88	4.80	4.69
Oklahoma	4.05	3.99	3.87	3.98	3.96	3.69	4.02	4.06
Oregon	4.77	4.88	4.82	4.90	4.75	4.71	4.73	4.73
Pennsylvania	6.12	5.97	5.23	6.61	6.53	6.63	6.13	6.04
Rhode Island	6.28	7.14	6.57	4.32	5.07	5.24	7.26	7.01
South Carolina	5.68	5.63	5.66	5.22	5.27	5.23	5.69	5.55
South Dakota	3.96	4.15	3.99	4.00	4.14	R 3.70	3.81	3.77
Tennessee	4.74	4.85	4.42	4.74	R 4.80	4.92	4.67	4.70
Texas	4.23	4.20	4.08	3.71	3.95	4.00	3.87	4.22
Utah	4.47	4.25	4.09	4.67	4.45	4.16	4.40	4.72
Vermont	5.26	4.95	4.72	5.74	5.71	5.06	4.98	4.95
Virginia	4.92	4.78	4.98	4.45	4.09	4.40	5.00	4.72
Washington	4.02	4.20	4.69	4.23	4.16	4.09	3.99	3.93
West Virginia	5.78	6.09	5.01	6.01	6.17	5.96	5.78	5.75
Wisconsin	4.53	4.59	4.52	4.19	4.49	4.00	4.86	4.38
Wyoming	4.26	4.48	4.32	4.39	4.24	4.21	4.24	4.24
Total	4.89	4.86	4.76	4.49	R 4.81	R 4.68	4.90	4.93

See footnotes at end of table

Table 29. Average Price of Natural Gas Sold to Commercial Consumers by State, 1989-1991 (Continued)
(Dollars per Thousand Cubic Feet)

State	February 1991	January 1991	Total 1990	December 1990	November 1990	October 1990	September 1990	August 1990
Alabama	5.76	5.68	5.32	5.42	5.47	5.32	5.36	5.42
Alaska	3.13	3.10	2.63	2.75	2.69	2.57	2.49	2.41
Arizona	5.02	4.84	4.79	4.83	4.79	4.81	4.79	4.78
Arkansas	4.27	4.12	4.39	4.30	4.35	4.52	4.67	4.75
California	6.29	6.09	5.12	5.58	5.05	5.03	4.37	4.64
Colorado	3.90	3.87	3.94	3.86	3.87	4.10	4.27	4.28
Connecticut	6.71	6.79	6.30	6.62	6.34	5.66	5.52	5.02
Delaware	4.47	5.42	5.48	5.47	5.51	5.79	5.99	5.41
District of Columbia	5.55	5.56	5.54	5.47	5.06	4.82	4.56	4.80
Florida	5.25	5.47	4.99	5.57	5.48	5.10	4.73	4.61
Georgia	5.87	5.70	5.77	5.72	6.02	5.72	5.48	5.37
Hawaii	15.00	15.04	12.25	15.52	14.35	12.76	11.28	10.75
Idaho	4.23	4.19	4.18	4.20	4.52	4.54	4.61	4.66
Illinois	4.62	4.76	4.66	4.58	4.27	4.38	4.38	4.94
Indiana	5.03	4.85	4.78	4.48	4.41	4.08	4.71	4.69
Iowa	3.77	4.13	4.12	4.28	3.95	3.62	3.94	3.93
Kansas	3.78	3.77	3.41	3.53	3.38	3.11	2.62	2.74
Kentucky	4.40	4.39	4.49	4.47	4.27	4.42	4.75	4.68
Louisiana	4.76	5.29	5.34	5.65	5.89	5.64	5.53	5.71
Maine	6.02	6.00	6.72	6.08	6.12	6.26	6.39	6.47
Maryland	5.15	5.22	5.33	5.30	5.22	5.43	5.39	5.35
Massachusetts	6.87	6.77	6.26	6.89	6.64	4.75	5.14	4.97
Michigan	4.65	4.67	4.68	4.57	4.65	4.94	5.35	5.46
Minnesota	3.49	4.13	3.99	4.30	4.06	3.56	3.27	3.17
Mississippi	4.31	4.36	4.31	4.33	4.25	3.90	3.93	3.93
Missouri	4.51	4.58	4.60	4.64	4.49	4.55	4.68	4.60
Montana	4.32	4.29	4.36	4.38	4.47	4.58	4.76	4.73
Nebraska	3.90	4.51	3.83	4.15	4.08	3.74	3.54	3.55
Nevada	4.21	4.49	4.36	4.32	4.40	4.29	4.36	4.50
New Hampshire	6.46	6.43	6.73	6.50	6.79	6.01	6.37	6.39
New Jersey	5.26	5.32	5.30	5.03	4.52	5.17	5.04	5.00
New Mexico	4.07	4.09	4.38	3.93	4.82	4.35	4.57	4.49
New York	5.92	5.81	5.57	5.70	5.56	5.12	4.87	4.86
North Carolina	4.57	4.74	4.60	4.73	4.53	4.40	4.37	4.48
North Dakota	4.20	4.26	4.21	4.24	4.39	4.23	3.87	4.58
Ohio	4.84	4.88	4.66	4.87	4.78	4.52	4.66	4.60
Oklahoma	4.12	4.10	3.98	3.98	4.07	3.95	3.97	3.86
Oregon	4.75	4.81	4.87	4.76	4.79	4.97	5.06	5.11
Pennsylvania	6.11	5.90	6.00	5.90	6.03	6.21	6.33	6.27
Rhode Island	6.81	6.74	R 7.12	R 6.82	R 7.10	R 7.14	R 7.15	R 7.15
South Carolina	6.05	5.95	5.63	6.14	5.90	5.17	5.22	5.13
South Dakota	3.85	4.26	4.19	4.45	4.31	4.02	3.80	4.04
Tennessee	4.71	4.77	4.82	4.86	4.75	4.60	4.78	4.55
Texas	4.47	4.72	R 4.27	4.71	R 4.55	R 4.44	R 4.07	3.90
Utah	4.56	4.39	4.30	4.43	4.43	4.42	4.36	4.35
Vermont	5.38	5.45	5.05	5.39	5.36	5.08	4.90	4.95
Virginia	5.35	5.23	4.84	5.19	5.19	4.33	5.00	4.61
Washington	3.93	4.03	4.15	3.96	4.05	4.09	4.19	4.18
West Virginia	5.71	5.72	6.21	6.12	6.23	6.94	7.64	7.42
Wisconsin	4.43	4.72	4.56	4.66	4.37	4.17	4.59	4.66
Wyoming	4.22	4.31	4.43	4.42	4.45	4.54	4.67	5.05
Total	4.97	4.98	4.83	4.92	4.81	4.67	4.56	4.56

See footnotes at end of table

Table 29. Average Price of Natural Gas Sold to Commercial Consumers by State, 1989-1991 (Continued)
(Dollars per Thousand Cubic Feet)

State	July 1990	June 1990	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	5.53	5.99	5.48	5.23	5.16	5.22	5.12	5.17
Alaska	2.44	2.52	2.55	2.62	2.71	2.74	2.67	2.57
Arizona	4.73	4.66	4.67	4.79	4.78	4.89	4.83	4.76
Arkansas	4.67	4.68	4.46	4.34	4.39	4.34	4.25	4.38
California	4.40	4.37	4.54	5.29	5.64	5.64	5.56	4.88
Colorado	4.24	4.09	3.95	3.89	3.85	3.86	3.93	4.05
Connecticut	5.05	5.15	5.88	6.09	6.76	6.85	6.95	6.08
Delaware	5.67	5.60	5.54	5.43	5.51	5.36	5.32	5.39
District of Columbia	5.12	5.21	5.09	5.41	6.51	5.73	6.04	5.30
Florida	4.64	4.66	4.68	4.72	4.94	5.23	5.08	4.85
Georgia	5.56	5.46	5.49	5.38	6.02	6.26	5.78	5.46
Hawaii	10.76	11.51	11.94	12.36	12.17	11.94	11.73	11.44
Idaho	4.53	4.32	4.34	4.25	3.96	3.91	3.87	4.20
Illinois	5.13	5.02	4.68	4.52	4.85	4.99	4.58	4.55
Indiana	4.85	5.00	5.01	4.90	4.88	4.94	5.13	4.78
Iowa	3.95	3.71	3.73	3.72	3.97	4.32	4.63	3.91
Kansas	2.83	3.02	3.42	3.63	3.89	3.93	3.89	3.14
Kentucky	4.96	4.73	4.69	4.37	4.39	4.50	4.51	4.35
Louisiana	5.42	5.45	5.02	5.28	4.61	5.40	5.12	5.26
Maine	6.43	6.25	6.57	7.50	7.40	7.42	6.46	6.30
Maryland	5.28	5.23	5.07	5.11	5.68	5.43	5.29	5.43
Massachusetts	4.72	4.89	5.27	6.79	7.06	7.13	6.24	5.87
Michigan	5.48	5.07	4.75	4.56	4.57	4.61	4.55	4.85
Minnesota	3.64	3.74	3.56	3.57	3.70	4.06	4.66	4.00
Mississippi	3.98	3.93	4.20	4.14	4.49	4.62	4.67	4.73
Missouri	4.54	4.49	4.45	4.60	4.69	4.70	4.56	4.34
Montana	4.62	4.59	4.36	4.32	4.23	4.23	4.19	4.36
Nebraska	3.53	3.67	3.93	3.57	3.81	3.79	4.27	3.77
Nevada	4.33	4.32	4.39	4.42	4.43	4.34	4.32	4.44
New Hampshire	6.50	6.41	6.23	7.29	7.30	7.18	6.38	6.23
New Jersey	5.05	5.14	5.10	5.41	5.55	5.62	5.74	5.30
New Mexico	4.44	4.71	4.40	4.32	4.37	4.44	4.39	3.72
New York	4.94	5.02	5.63	5.75	5.73	6.15	5.70	5.62
North Carolina	4.45	4.53	4.53	4.40	4.58	4.63	4.86	5.14
North Dakota	4.53	4.33	4.15	4.06	4.19	4.17	4.18	4.19
Ohio	4.32	4.69	4.46	4.67	4.04	4.96	4.83	4.90
Oklahoma	3.96	3.91	3.75	3.99	4.13	3.99	3.99	3.94
Oregon	5.06	4.86	4.83	4.82	4.86	4.89	4.89	4.80
Pennsylvania	6.28	6.39	6.09	5.96	5.91	5.90	5.90	5.35
Rhode Island	R 10.63	7.09	R 6.93	R 6.38	R 6.55	R 6.70	R 6.58	6.41
South Carolina	5.12	5.25	5.24	5.67	5.65	5.78	5.94	5.65
South Dakota	4.39	4.27	4.01	3.90	3.97	4.15	4.40	3.99
Tennessee	4.70	4.74	4.62	4.76	5.09	4.91	4.84	4.49
Texas	3.68	3.71	R 4.02	R 4.09	R 4.50	R 4.53	R 4.55	4.11
Utah	4.30	4.10	4.21	4.43	4.26	4.21	4.23	4.16
Vermont	5.41	5.39	4.86	4.75	4.87	4.99	4.97	4.74
Virginia	4.78	4.48	4.40	4.30	4.89	5.10	4.99	4.93
Washington	4.24	4.68	3.88	4.17	4.24	4.06	4.31	4.68
West Virginia	7.45	7.44	6.51	6.16	6.02	5.93	5.76	5.25
Wisconsin	4.50	4.10	4.32	4.44	4.74	4.81	4.56	4.44
Wyoming	5.23	4.77	4.42	4.41	4.42	4.42	4.42	4.33
Total	R 4.47	4.57	4.63	4.82	R 4.92	R 5.04	4.98	4.74

R = Revised Data.

Notes: Data for 1989 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 for 1988 forward reflect onsystem sales prices only. See Explanatory Note 5 for discussion of computations and revision policy. See Table 32 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries.

Source: Form EIA-857.

Table 30. Average Price of Natural Gas Sold to Industrial Consumers by State, 1989-1991
(Dollars per Thousand Cubic Feet)

State	YTD 1991	YTD 1990	YTD 1989	July 1991	June 1991	May 1991	April 1991	March 1991
Alabama	2.79	3.10	2.95	2.37	2.55	2.83	2.64	2.74
Alaska	1.33	1.15	1.13	1.19	1.27	1.34	1.35	1.38
Arizona	3.38	3.78	3.87	3.38	3.31	3.33	3.34	3.41
Arkansas	3.20	3.03	3.09	3.06	3.07	3.08	3.05	3.43
California	4.05	3.88	3.94	3.75	3.70	3.95	3.73	4.21
Colorado	2.28	2.83	2.59	2.15	R 2.29	R 2.23	R 2.31	R 2.13
Connecticut	5.01	4.82	4.62	4.42	4.38	4.76	4.86	5.06
Delaware	3.13	3.47	3.44	2.67	2.94	2.88	2.95	3.33
District of Columbia	--	--	--	--	--	--	--	--
Florida	3.10	3.14	3.09	3.13	2.97	2.95	2.94	3.02
Georgia	3.27	3.57	3.68	2.98	2.86	2.92	2.93	3.38
Hawaii	--	--	--	--	--	--	--	--
Idaho	2.96	2.67	2.87	2.89	2.95	2.96	2.96	2.98
Illinois	4.11	4.18	3.90	3.56	3.81	R 4.18	3.84	3.95
Indiana	3.73	3.93	4.00	3.05	2.94	3.49	3.78	3.73
Iowa	2.43	2.81	2.55	1.91	2.11	2.16	2.27	2.45
Kansas	2.67	2.94	2.98	2.65	R 2.66	2.43	2.60	2.75
Kentucky	3.75	3.92	3.77	3.60	3.33	3.55	3.62	3.83
Louisiana	1.73	2.04	2.00	1.46	1.57	1.57	1.59	1.64
Maine	4.16	5.18	4.55	3.61	3.59	3.73	4.18	4.36
Maryland	3.59	4.60	4.79	3.30	3.52	3.54	3.52	3.50
Massachusetts	3.95	4.31	4.21	3.23	2.43	2.98	4.11	5.21
Michigan	4.27	4.20	4.30	4.36	4.21	4.25	4.27	4.26
Minnesota	2.80	3.04	2.85	2.58	2.68	R 2.61	R 2.68	R 2.82
Mississippi	2.31	2.52	2.55	2.02	2.13	2.21	2.27	2.38
Missouri	4.23	4.49	4.13	4.01	4.02	R 3.85	3.84	4.11
Montana	3.30	3.11	2.88	3.27	3.03	2.99	3.12	3.03
Nebraska	2.73	3.04	2.95	2.22	2.35	2.37	2.45	2.68
Nevada	3.92	4.22	4.92	4.00	4.46	4.15	4.32	3.66
New Hampshire	4.50	4.41	4.14	3.34	3.66	3.83	4.34	5.22
New Jersey	3.90	4.26	4.12	3.23	3.25	3.36	3.61	4.40
New Mexico	3.57	3.68	3.13	3.36	3.36	3.48	3.59	3.76
New York	4.86	4.86	4.96	4.27	R 4.07	4.29	4.74	4.87
North Carolina	3.35	3.40	3.60	2.87	2.97	3.13	3.20	3.35
North Dakota	3.15	3.39	3.39	3.00	3.04	2.96	2.87	2.98
Ohio	4.27	3.97	4.28	4.08	3.90	4.09	4.32	4.19
Oklahoma	1.68	1.70	1.90	1.41	2.02	1.45	1.68	1.64
Oregon	3.42	3.52	3.62	3.54	3.44	3.38	3.34	3.68
Pennsylvania	4.22	4.30	3.86	4.20	3.95	3.97	3.89	4.07
Rhode Island	5.57	5.33	5.30	4.51	R 4.66	4.68	5.28	6.76
South Carolina	3.16	3.14	3.46	4.11	2.45	2.54	2.78	2.84
South Dakota	3.08	3.29	3.11	2.62	3.34	R 3.01	3.08	2.69
Tennessee	3.08	3.36	3.37	2.83	R 2.90	R 2.89	3.02	3.03
Texas	1.85	2.28	2.28	1.60	1.75	1.76	1.74	1.85
Utah	3.75	3.67	3.21	3.54	3.41	3.44	3.31	3.75
Vermont	3.10	3.27	2.99	2.59	2.57	2.58	2.64	2.78
Virginia	3.82	3.77	3.91	3.44	3.08	3.30	4.20	3.99
Washington	2.83	2.72	3.00	2.84	2.63	2.65	2.66	3.00
West Virginia	2.57	3.37	2.81	2.30	1.54	2.09	2.09	3.36
Wisconsin	3.49	3.66	3.80	2.79	2.96	2.92	3.89	3.42
Wyoming	2.97	3.17	3.26	2.95	3.67	2.72	2.78	2.97
Total	2.69	2.96	3.02	2.28	2.33	R 2.40	R 2.53	R 2.78

See footnotes at end of table.

Table 30. Average Price of Natural Gas Sold to Industrial Consumers by State, 1989-1991 (Continued)
(Dollars per Thousand Cubic Feet)

State	February 1991	January 1991	Total 1990	December 1990	November 1990	October 1990	September 1990	August 1990
Alabama	3.07	3.28	3.05	3.20	3.11	3.07	2.88	2.72
Alaska	1.32	1.43	1.18	1.26	1.24	1.24	1.20	1.17
Arizona	3.57	3.31	3.71	3.37	3.52	3.41	4.20	4.30
Arkansas	3.37	3.19	3.01	3.14	3.13	2.93	2.90	2.75
California	4.44	4.42	3.93	4.07	4.12	3.58	4.19	4.07
Colorado	R 2.36	R 2.49	2.79	3.44	2.67	2.77	2.71	2.32
Connecticut	5.19	5.56	4.77	5.19	5.05	4.53	4.40	3.83
Delaware	2.99	4.06	3.58	4.14	4.06	4.00	3.40	3.16
District of Columbia	--	--	--	--	--	--	--	--
Florida	3.04	3.50	3.28	3.64	3.67	3.60	3.36	3.25
Georgia	4.01	R 3.91	3.52	3.72	3.87	3.59	3.13	2.99
Hawaii	--	--	--	--	--	--	--	--
Idaho	2.99	2.98	2.72	2.96	2.94	2.94	2.92	2.95
Illinois	4.67	4.06	4.09	3.97	3.74	4.13	4.08	3.45
Indiana	4.28	4.08	3.75	3.79	3.60	3.24	3.30	3.07
Iowa	2.61	2.94	2.73	3.02	2.78	2.38	2.41	2.29
Kansas	2.70	2.84	2.83	2.53	2.70	2.67	2.79	2.72
Kentucky	3.96	3.92	3.84	3.80	3.81	3.51	3.65	3.65
Louisiana	1.92	2.32	1.98	2.38	2.03	1.74	1.58	1.69
Maine	4.97	5.02	5.12	5.02	4.80	4.86	5.61	4.97
Maryland	3.74	3.72	4.58	4.53	4.67	4.45	4.45	4.51
Massachusetts	6.00	6.05	4.14	5.21	4.47	3.16	3.51	3.69
Michigan	4.29	4.28	4.19	4.15	4.14	4.24	4.32	4.22
Minnesota	2.80	3.06	2.97	3.15	2.89	2.68	2.72	2.54
Mississippi	2.37	2.69	2.51	2.83	2.71	2.46	2.24	2.23
Missouri	4.40	4.59	4.37	4.31	4.07	3.78	4.17	4.16
Montana	3.60	3.76	3.23	3.96	3.87	3.29	2.88	2.54
Nebraska	2.93	3.36	3.00	3.20	3.10	2.73	2.72	2.66
Nevada	3.72	3.63	4.33	4.57	3.45	4.39	5.03	5.58
New Hampshire	5.58	5.57	4.36	5.44	4.85	3.77	3.93	3.75
New Jersey	4.46	4.34	4.02	4.00	3.67	3.49	3.51	3.45
New Mexico	4.38	3.97	3.69	3.97	3.96	3.83	3.66	3.44
New York	5.48	5.14	4.75	5.07	4.36	4.58	4.65	3.86
North Carolina	3.49	3.72	3.48	3.89	3.68	3.50	3.39	3.08
North Dakota	3.30	3.50	3.32	3.51	3.16	2.94	2.94	2.97
Ohio	4.36	4.49	3.94	4.34	3.92	3.64	3.49	3.73
Oklahoma	1.80	1.80	1.72	1.85	1.73	1.69	1.64	1.70
Oregon	2.68	3.79	3.53	4.21	3.38	3.33	3.32	3.32
Pennsylvania	4.48	4.51	4.33	4.51	4.31	4.65	4.43	3.94
Rhode Island	6.40	6.41	5.32	6.29	5.80	4.95	4.84	4.54
South Carolina	3.62	3.87	3.14	3.87	3.63	3.25	2.74	2.53
South Dakota	3.13	3.59	3.28	3.64	3.31	3.00	3.08	3.12
Tennessee	3.17	3.53	3.30	3.74	3.31	3.03	2.94	2.95
Texas	1.89	2.34	2.21	2.50	2.36	2.03	1.82	1.82
Utah	4.84	3.51	3.59	3.66	3.57	3.42	3.27	3.26
Vermont	3.71	4.18	3.51	4.23	4.13	3.92	3.73	2.88
Virginia	4.21	4.50	3.75	3.88	3.78	3.89	3.48	3.49
Washington	2.94	2.98	2.72	3.10	2.92	2.57	2.54	2.53
West Virginia	3.47	3.63	3.36	3.69	3.42	3.56	3.01	3.01
Wisconsin	3.57	3.90	3.67	4.16	3.86	3.32	3.24	3.27
Wyoming	2.86	2.98	3.22	3.14	3.30	3.31	3.33	3.55
Total	R 2.99	3.25	2.89	3.21	2.99	2.64	2.56	2.48

See footnotes at end of table.

Table 30. Average Price of Natural Gas Sold to Industrial Consumers by State, 1989-1991 (Continued)
(Dollars per Thousand Cubic Feet)

State	July 1990	June 1990	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	2.76	2.85	3.02	3.13	3.06	3.25	3.46	3.02
Alaska	1.13	1.10	1.20	1.18	1.13	1.14	1.14	1.08
Arizona	4.30	4.23	4.11	3.70	3.48	3.59	3.66	3.67
Arkansas	2.81	2.81	2.84	2.88	3.17	3.22	3.29	3.09
California	3.65	3.64	3.66	3.65	4.29	4.57	3.84	3.75
Colorado	2.41	2.44	2.95	2.99	2.80	2.83	3.30	2.53
Connecticut	3.84	3.96	4.01	4.70	5.27	5.59	6.00	4.51
Delaware	3.32	3.08	3.29	3.04	3.53	3.82	4.00	3.45
District of Columbia	--	--	--	--	--	--	--	--
Florida	2.80	2.91	2.95	2.97	3.06	3.48	3.65	3.13
Georgia	3.02	3.31	3.33	3.56	3.77	4.21	3.70	3.73
Hawaii	--	--	--	--	--	--	--	--
Idaho	2.97	2.87	2.83	2.84	2.83	2.83	2.59	2.92
Illinois	3.85	4.33	4.16	4.05	4.19	4.17	4.34	3.73
Indiana	3.09	3.25	3.49	3.95	4.19	4.08	4.48	3.89
Iowa	2.31	2.30	2.44	2.61	2.77	3.09	3.49	2.54
Kansas	2.74	3.06	2.96	2.59	2.89	3.02	3.26	3.06
Kentucky	3.76	3.71	3.79	3.94	3.96	3.94	4.00	3.69
Louisiana	1.75	1.76	1.79	1.82	2.20	2.56	2.52	1.97
Maine	4.10	4.05	4.22	5.64	6.35	6.89	5.58	4.57
Maryland	4.44	4.55	4.40	4.41	4.53	4.59	4.86	4.81
Massachusetts	2.98	2.91	3.77	4.12	5.39	5.99	5.42	4.07
Michigan	4.48	4.04	4.17	4.11	4.15	4.22	4.27	4.22
Minnesota	2.72	2.65	2.66	2.78	2.89	3.24	3.67	2.86
Mississippi	2.32	2.24	2.34	2.35	2.51	2.78	2.99	2.54
Missouri	3.88	4.25	4.69	4.41	4.67	4.42	4.62	4.13
Montana	2.70	2.88	2.92	2.93	3.11	3.45	3.63	2.98
Nebraska	2.74	2.67	2.47	2.88	3.03	3.20	3.60	2.92
Nevada	4.36	4.12	5.05	4.11	3.80	4.37	4.04	4.98
New Hampshire	3.61	3.37	3.27	4.11	5.92	6.09	5.54	4.20
New Jersey	3.46	3.53	3.64	4.03	4.42	4.89	5.03	3.98
New Mexico	3.39	3.38	3.65	3.87	4.18	4.27	4.34	3.12
New York	4.16	4.36	4.24	4.87	5.26	5.22	4.94	4.83
North Carolina	2.97	3.15	3.22	3.23	3.46	3.54	3.73	3.64
North Dakota	3.00	2.97	2.99	3.09	3.25	4.13	3.67	3.55
Ohio	3.66	3.66	3.70	3.91	3.88	4.28	4.13	4.19
Oklahoma	1.61	1.71	1.71	1.67	1.81	1.55	1.85	1.97
Oregon	3.40	3.50	3.40	3.31	3.45	3.71	3.66	3.52
Pennsylvania	4.13	3.91	4.25	4.26	4.19	4.44	4.55	3.90
Rhode Island	5.03	4.49	4.43	4.77	5.84	6.23	6.36	5.16
South Carolina	2.43	2.86	3.02	3.16	3.33	3.62	3.93	3.46
South Dakota	3.03	2.92	2.97	3.07	3.19	3.56	3.82	3.09
Tennessee	2.91	3.06	3.01	3.27	3.33	3.70	3.94	3.37
Texas	1.93	2.00	2.00	2.09	2.08	2.63	3.12	2.26
Utah	3.28	3.24	3.28	3.48	3.48	4.93	3.45	3.30
Vermont	2.60	2.87	2.90	3.00	3.37	3.95	3.69	3.01
Virginia	3.66	3.42	3.34	3.64	3.74	4.25	4.03	3.91
Washington	2.58	2.47	2.43	2.64	2.59	2.93	3.17	2.93
West Virginia	3.08	3.07	3.17	3.22	3.49	3.65	3.62	2.92
Wisconsin	3.19	3.22	3.33	3.37	3.79	3.95	3.93	3.73
Wyoming	3.27	3.15	3.13	3.18	3.14	3.24	3.15	3.23
Total	2.46	2.54	2.64	2.81	3.04	3.37	3.50	2.97

^R = Revised Data.

-- = Not Applicable.

Notes: Data for 1989 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 for 1988 forward reflect onsystem sales prices only. See Explanatory Note 5 for discussion of computations and revision policy. See Table 32 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries.

Source: Form EIA-857.

Table 31. Average Price of Natural Gas Delivered to Electric Utility^a
Consumers by State, 1989-1991
(Dollars per Thousand Cubic Feet)

State	YTD 1991	YTD 1990	YTD 1989	June 1991	May 1991	April 1991	March 1991	February 1991
Alabama	1.91	2.15	2.24	1.76	1.90	1.86	1.84	2.01
Alaska	.53	--	--	.49	.52	.55	.56	.56
Arizona	2.01	2.51	2.24	1.75	1.90	2.27	2.01	2.06
Arkansas	1.44	1.53	1.51	1.41	1.45	1.42	1.40	1.35
California	3.12	3.23	2.98	2.83	2.91	3.07	3.12	3.21
Colorado	2.26	2.20	2.16	2.30	2.06	2.10	2.02	2.75
Connecticut	2.26	2.19	2.71	2.01	2.05	2.83	4.58	6.06
Delaware	2.47	2.80	2.93	2.34	2.44	2.33	2.32	2.75
District of Columbia	--	--	--	--	--	--	--	--
Florida	2.13	2.36	2.52	1.96	2.11	2.15	2.03	1.91
Georgia	3.08	3.39	3.05	2.67	2.81	3.40	3.28	3.43
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--
Illinois	2.55	3.01	3.48	2.04	2.28	2.50	2.70	3.04
Indiana	2.37	2.63	2.70	2.10	2.15	2.09	2.25	2.46
Iowa	2.57	2.91	2.80	2.31	2.29	2.88	2.85	2.84
Kansas	1.67	1.81	2.08	1.57	1.59	1.54	1.89	1.99
Kentucky	2.89	3.33	2.82	2.66	3.31	3.02	2.86	2.57
Louisiana	1.56	1.71	1.76	1.53	1.55	1.53	1.39	1.55
Maine	--	--	--	--	--	--	--	--
Maryland	2.45	2.65	2.70	2.15	2.31	2.33	2.49	3.00
Massachusetts	2.46	2.31	2.60	2.11	2.12	2.24	2.99	3.90
Michigan	.56	.42	.18	.70	.78	.79	.52	.30
Minnesota	1.66	2.11	2.23	1.50	1.69	1.59	1.62	1.61
Mississippi	1.65	1.89	1.84	1.45	1.55	1.55	1.58	1.68
Missouri	1.51	2.43	2.40	1.42	1.53	1.47	1.49	1.76
Montana	5.79	2.67	1.27	4.26	8.19	6.86	6.09	4.19
Nebraska	1.73	1.88	2.43	1.91	1.61	1.43	2.24	2.50
Nevada	1.77	2.06	2.06	1.64	1.68	1.62	1.69	2.18
New Hampshire	--	--	--	--	--	--	--	--
New Jersey	2.10	2.32	2.63	1.86	1.93	1.89	2.15	2.68
New Mexico	1.69	2.00	2.17	1.57	1.67	1.58	1.58	1.69
New York	2.32	2.40	2.47	2.04	2.11	2.02	2.12	2.63
North Carolina	2.92	--	--	2.49	2.57	2.62	3.11	3.14
North Dakota	--	--	--	4.70	--	--	--	--
Ohio	2.15	3.67	3.44	1.98	2.29	1.95	1.93	2.13
Oklahoma	3.04	3.35	3.04	2.95	2.81	2.94	3.14	3.53
Oregon	1.43	--	--	1.58	--	1.34	--	1.58
Pennsylvania	3.20	3.08	3.74	3.13	3.16	3.57	3.11	3.16
Rhode Island	2.04	2.08	2.66	2.04	2.07	2.24	2.17	--
South Carolina	1.76	2.21	2.46	1.78	1.69	1.73	1.73	3.47
South Dakota	1.23	--	--	1.34	--	--	--	--
Tennessee	--	--	--	--	--	--	--	--
Texas	1.98	2.14	2.21	1.82	1.84	1.91	2.00	2.06
Utah	1.73	1.34	--	1.70	1.64	1.66	1.51	1.48
Vermont	1.02	--	--	1.63	--	--	--	--
Virginia	1.91	1.30	2.57	1.72	1.87	1.77	2.87	6.79
Washington	--	--	--	--	--	--	--	--
West Virginia	3.77	5.48	4.51	3.04	3.58	3.35	3.07	2.73
Wisconsin	2.74	2.99	3.31	2.56	2.62	2.94	2.65	2.92
Wyoming	3.58	3.39	3.59	3.44	3.33	3.41	3.24	3.24
Total	2.18	2.38	2.40	1.94	2.01	2.10	2.21	2.35

See footnotes at end of table.

**Table 31. Average Price of Natural Gas Delivered to Electric Utility^a
Consumers by State, 1989-1991 (Continued)**
(Dollars per Thousand Cubic Feet)

State	January 1991	Total 1990	December 1990	November 1990	October 1990	September 1990	August 1990	July 1990
Alabama	2.51	2.22	2.86	2.64	2.17	1.91	1.89	1.97
Alaska	.52	--	--	--	--	--	--	--
Arizona	2.71	2.45	2.97	2.49	2.51	2.34	2.31	2.28
Arkansas	1.76	1.57	2.08	1.90	1.55	1.45	1.45	1.52
California	3.43	3.13	3.52	3.44	3.23	3.00	2.86	2.82
Colorado	2.40	2.15	2.25	1.88	2.26	2.23	2.11	2.21
Connecticut	5.86	2.79	5.64	3.52	3.44	3.00	2.25	2.04
Delaware	3.48	2.72	3.37	3.55	3.55	3.82	2.32	2.29
District of Columbia	--	--	--	--	--	--	--	--
Florida	2.68	2.56	3.09	3.12	2.75	2.79	2.66	2.23
Georgia	3.43	3.04	3.54	1.87	3.31	2.94	2.94	2.89
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--
Illinois	3.00	2.73	2.96	2.71	2.35	2.18	2.45	2.77
Indiana	2.93	2.58	3.17	2.77	2.51	2.15	2.34	2.53
Iowa	3.30	3.06	3.46	3.06	2.99	2.93	3.15	2.96
Kansas	2.20	1.74	2.25	2.06	1.65	1.68	1.68	1.60
Kentucky	2.96	3.04	3.10	2.97	2.43	2.23	2.44	2.49
Louisiana	1.93	1.73	2.29	1.93	1.75	1.58	1.60	1.72
Maine	--	--	--	--	--	--	--	--
Maryland	3.36	2.55	4.13	3.58	2.57	2.34	2.29	2.27
Massachusetts	3.24	2.53	3.82	3.77	2.82	2.67	2.25	2.03
Michigan	.23	.47	.23	.66	.47	.50	.63	.65
Minnesota	2.53	1.93	2.67	2.60	1.99	1.70	1.74	1.75
Mississippi	2.20	1.83	2.47	2.31	1.88	1.63	1.61	1.69
Missouri	2.79	1.75	2.61	2.48	2.30	1.48	1.55	2.00
Montana	2.07	1.77	2.07	1.41	1.13	1.35	2.01	3.20
Nebraska	2.13	1.90	2.14	2.08	1.81	1.65	2.10	2.13
Nevada	2.49	2.02	2.63	2.26	1.81	1.80	1.95	2.09
New Hampshire	--	--	--	--	--	--	--	--
New Jersey	3.05	2.24	3.10	3.03	2.08	2.12	1.98	2.20
New Mexico	2.20	1.97	2.32	2.33	1.92	1.78	1.80	1.90
New York	3.92	2.46	4.12	3.22	2.31	2.09	2.01	2.05
North Carolina	3.51	--	--	--	--	--	--	--
North Dakota	--	4.01	--	4.12	3.90	--	3.84	--
Ohio	3.83	2.57	3.77	4.27	3.35	2.16	1.94	1.97
Oklahoma	3.16	3.14	3.44	3.35	2.96	2.76	2.74	3.01
Oregon	2.11	--	--	--	--	--	--	--
Pennsylvania	3.23	3.05	3.16	2.89	3.07	3.04	3.08	--
Rhode Island	--	2.24	--	3.12	2.50	2.25	2.12	1.99
South Carolina	3.73	1.76	4.00	3.36	2.15	1.70	1.69	1.69
South Dakota	--	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--	--
Texas	2.40	2.18	2.48	2.48	2.27	1.95	2.16	2.10
Utah	3.32	5.04	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--	--
Virginia	5.15	2.69	4.00	2.53	5.20	2.53	2.26	2.06
Washington	--	--	--	--	--	--	--	--
West Virginia	7.22	5.13	7.32	6.79	6.38	6.56	6.63	3.31
Wisconsin	3.09	2.95	3.30	3.32	2.86	2.59	2.75	2.71
Wyoming	3.23	3.26	2.87	2.84	2.83	3.27	3.23	3.26
Total	2.71	2.38	2.89	2.79	2.45	2.21	2.23	2.22

See footnotes at end of table.

**Table 31. Average Price of Natural Gas Delivered to Electric Utility^a
Consumers by State, 1989-1991 (Continued)**
(Dollars per Thousand Cubic Feet)

State	June 1990	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989	December 1989
Alabama	2.03	1.99	1.97	2.16	2.65	3.11	2.27	2.68
Alaska	--	--	--	--	--	--	^b 1.36	--
Arizona	2.30	2.30	2.34	2.25	2.91	3.30	2.32	2.95
Arkansas	1.46	1.51	1.36	1.34	1.94	1.93	1.69	2.21
California	2.93	3.11	3.06	3.02	3.66	3.82	3.04	4.00
Colorado	2.22	2.13	2.13	2.12	2.30	2.37	2.23	2.26
Connecticut	2.13	2.19	--	--	6.51	6.27	2.59	6.23
Delaware	2.13	2.17	3.15	2.95	3.51	3.48	2.73	3.50
District of Columbia	--	--	--	--	--	--	--	--
Florida	1.91	2.19	2.10	2.36	2.63	3.29	2.49	2.99
Georgia	3.29	3.34	3.52	3.73	3.80	3.75	3.23	3.78
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--
Illinois	2.47	2.77	2.99	3.39	3.90	3.48	3.32	3.32
Indiana	2.29	2.35	2.46	2.61	2.82	3.25	2.70	3.37
Iowa	2.68	2.09	3.00	3.46	3.71	4.36	2.69	3.79
Kansas	1.62	1.65	1.97	1.98	2.23	2.33	1.92	2.35
Kentucky	3.12	3.19	3.14	3.65	3.35	3.37	2.73	3.14
Louisiana	1.72	1.65	1.62	1.64	1.73	2.01	1.78	2.03
Maine	--	--	--	--	--	--	--	--
Maryland	2.34	2.53	2.75	3.00	3.38	2.84	2.72	3.56
Massachusetts	2.29	2.29	2.30	2.36	2.75	5.13	2.49	6.08
Michigan	.51	.50	.37	.34	.49	.31	.19	.22
Minnesota	1.95	1.81	1.90	1.92	2.46	3.12	2.16	2.73
Mississippi	1.75	1.76	1.74	1.83	2.14	2.52	1.88	2.45
Missouri	2.26	2.32	2.79	2.48	2.79	3.19	2.50	3.25
Montana	5.18	1.60	1.27	1.51	3.16	1.40	1.38	1.53
Nebraska	2.12	1.67	1.66	1.74	2.68	3.35	2.26	3.14
Nevada	2.05	1.80	1.72	1.73	2.76	3.18	2.17	2.73
New Hampshire	--	--	--	--	--	--	^b 3.16	--
New Jersey	2.13	2.29	2.19	2.59	3.02	3.78	2.54	2.88
New Mexico	1.91	1.84	1.89	1.90	2.14	2.71	2.20	2.70
New York	2.11	2.21	2.31	2.50	2.96	3.47	2.42	3.17
North Carolina	--	--	--	--	--	--	^b 3.57	--
North Dakota	--	--	--	--	--	--	4.61	--
Ohio	3.21	3.28	4.00	3.67	4.10	4.14	3.15	4.07
Oklahoma	3.11	3.06	3.61	3.52	3.62	3.34	3.05	3.20
Oregon	--	--	--	--	--	--	--	--
Pennsylvania	3.02	2.95	2.92	2.86	3.47	3.34	3.58	3.59
Rhode Island	2.02	2.07	2.22	2.35	--	--	2.49	--
South Carolina	1.83	3.95	4.70	4.53	4.49	4.37	2.27	2.97
South Dakota	--	--	--	--	--	--	^b 2.62	--
Tennessee	--	--	--	--	--	--	^b 2.83	--
Texas	2.00	1.96	1.96	2.12	2.46	2.76	2.23	2.56
Utah	--	--	5.04	--	--	--	^b 3.38	--
Vermont	--	--	--	--	--	--	--	--
Virginia	1.68	--	--	--	--	--	2.57	.44
Washington	--	--	--	--	--	--	^b 5.19	--
West Virginia	6.58	6.45	6.63	5.99	4.82	4.76	4.59	4.81
Wisconsin	2.95	2.95	2.81	2.83	3.40	3.64	3.11	3.02
Wyoming	3.28	3.23	3.24	3.93	3.92	3.88	3.61	3.61
Total	2.16	2.18	2.28	2.37	2.76	3.00	2.42	2.85

^a Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater

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

-- = Not Applicable

Notes: Data for 1989 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. See Explanatory Note 5 for discussion of computations and revision policy. See

Sources: Form FERC-423 and Form EIA-176

Table 32. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1989-1991

State	July 1991		June 1991		May 1991		April 1991	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	83.6	29.7	83.2	29.6	81.7	27.8	80.8	25.3
Alaska	100.0	71.6	100.0	72.0	100.0	78.8	100.0	70.2
Arizona	87.2	47.4	89.7	52.1	91.7	49.8	92.6	52.9
Arkansas	85.2	12.2	85.5	17.9	88.0	20.5	91.2	14.4
California	67.8	25.2	70.8	28.5	82.0	27.5	70.7	33.3
Colorado	93.2	37.3	97.0	32.9	96.6	34.1	95.9	35.1
Connecticut	80.8	51.5	84.3	54.2	88.1	56.5	93.6	69.9
Delaware	100.0	68.6	100.0	67.9	100.0	67.0	100.0	68.1
District of Columbia	86.6	--	92.4	--	100.0	--	100.0	--
Florida	97.6	39.7	97.5	37.8	97.5	38.0	97.8	38.5
Georgia	78.5	25.7	78.5	32.6	80.5	33.1	83.8	39.8
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	84.6	3	86.7	2	87.3	2	87.3	3
Illinois	38.3	6.6	44.2	7.3	47.9	7.1	55.2	14.8
Indiana	90.0	16.0	89.2	19.4	92.6	15.7	93.2	17.7
Iowa	94.8	25.6	95.6	30.4	97.1	28.0	97.4	30.5
Kansas	90.2	17.0	85.6	12.6	87.1	15.1	89.7	15.1
Kentucky	88.2	11.7	85.8	10.3	86.5	10.6	89.7	12.4
Louisiana	98.4	43.9	98.3	46.4	100.0	44.2	100.0	45.4
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	94.4	9.5	94.7	9.0	95.8	8.8	96.5	12.3
Massachusetts	99.7	71.1	99.8	80.9	99.8	78.3	99.8	73.4
Michigan	45.4	4.5	52.3	6.2	63.1	8.8	68.4	12.3
Minnesota	78.5	29.7	80.1	29.6	88.8	35.0	95.7	35.8
Mississippi	93.7	35.8	90.5	35.1	89.5	36.3	91.9	33.9
Missouri	70.6	14.9	74.9	16.7	78.5	20.6	81.7	26.8
Montana	95.7	62.6	96.8	64.2	97.7	68.8	97.6	64.3
Nebraska	96.2	47.4	85.7	46.0	86.4	51.8	88.7	58.1
Nevada	94.0	12.3	87.2	11.7	90.6	14.8	92.2	13.8
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	89.3	47.2	88.9	47.4	92.1	53.2	91.5	50.9
New Mexico	69.8	16.8	64.0	19.1	83.7	20.2	85.0	13.6
New York	72.2	25.5	68.1	23.1	73.9	30.7	79.5	30.3
North Carolina	82.0	44.5	84.2	46.8	85.6	42.6	87.8	46.6
North Dakota	49.7	14.2	59.0	14.2	70.7	23.8	71.7	28.0
Ohio	75.3	8.2	74.6	9.3	78.4	10.2	83.4	12.0
Oklahoma	85.5	41.7	87.7	34.8	89.4	51.8	90.5	49.4
Oregon	97.2	17.0	98.0	19.5	97.4	19.9	97.6	21.4
Pennsylvania	70.8	11.4	73.1	12.0	72.3	13.9	77.8	18.7
Rhode Island	100.0	42.1	100.0	48.8	100.0	50.2	100.0	69.4
South Carolina	96.8	63.9	97.0	63.3	96.8	66.0	96.4	64.2
South Dakota	74.3	49.7	74.8	41.0	90.8	66.5	83.5	53.8
Tennessee	92.4	48.2	93.0	51.0	93.6	53.2	95.1	53.0
Texas	93.7	27.1	93.9	31.5	91.2	32.9	94.4	37.1
Utah	100.0	13.7	100.0	15.6	100.0	14.9	100.0	16.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	90.6	8.8	90.1	18.7	91.2	21.4	93.1	16.0
Washington	88.2	36.0	90.5	43.4	91.2	43.3	93.2	44.2
West Virginia	77.6	22.4	38.5	18.7	44.3	12.1	54.2	22.4
Wisconsin	76.8	34.8	80.4	34.4	86.2	37.2	89.1	42.1
Wyoming	96.9	5.6	97.9	7.4	98.7	9.5	98.6	9.2
Total	79.4	29.1	79.4	31.4	83.1	32.2	83.8	34.1

See footnotes at end of table

Table 32. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1989-1991 (Continued)

State	March 1991		February 1991		January 1991		Total 1990	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	86.0	32.4	85.0	29.6	79.6	28.6	77.2	R 31.8
Alaska	100.0	71.0	100.0	69.1	100.0	70.8	100.0	68.5
Arizona	93.1	50.6	94.9	51.6	97.9	58.2	95.5	43.2
Arkansas	96.2	22.6	94.8	19.6	93.9	19.2	92.2	20.3
California	90.1	37.1	88.2	31.8	90.4	34.3	86.4	39.3
Colorado	95.8	R 39.8	96.9	R 33.7	96.6	R 34.2	97.2	31.7
Connecticut	97.6	75.0	99.4	89.4	99.4	90.7	96.0	85.9
Delaware	100.0	69.8	100.0	66.4	100.0	67.9	100.0	71.5
District of Columbia	100.0	--	100.0	--	100.0	--	100.0	--
Florida	97.1	37.7	96.6	39.0	96.1	48.4	98.2	60.1
Georgia	88.1	29.4	90.0	27.1	91.6	32.7	87.7	34.3
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	88.4	.3	91.7	.3	90.9	.4	87.9	1.0
Illinois	59.9	16.9	61.4	19.0	65.2	25.4	56.5	19.1
Indiana	93.2	21.0	93.3	24.2	94.2	25.0	95.7	20.4
Iowa	98.2	32.7	98.5	40.6	98.3	41.4	97.5	36.7
Kansas	85.9	12.3	90.2	15.2	91.2	14.6	91.6	18.0
Kentucky	94.6	13.6	95.6	16.2	97.0	18.5	94.6	17.1
Louisiana	100.0	46.6	100.0	47.4	100.0	45.0	100.0	49.3
Maine	100.0	98.7	100.0	82.5	100.0	100.0	100.0	96.5
Maryland	97.0	18.4	97.4	16.2	97.2	22.2	95.7	35.5
Massachusetts	99.8	68.9	99.8	67.8	99.7	65.7	99.9	89.1
Michigan	73.3	16.7	73.1	17.4	73.9	18.4	68.0	12.2
Minnesota	97.4	39.6	96.1	R 50.9	R 96.7	56.0	95.6	40.5
Mississippi	91.7	36.6	92.5	38.3	90.6	41.3	94.5	46.3
Missouri	88.8	31.5	90.9	36.2	90.6	35.4	86.9	32.5
Montana	97.9	76.5	98.1	64.1	98.4	58.5	97.8	65.3
Nebraska	92.3	65.0	94.0	61.9	94.0	62.8	93.6	41.7
Nevada	93.9	10.3	99.3	12.3	99.4	34.4	97.6	14.2
New Hampshire	100.0	87.7	100.0	87.7	100.0	100.0	100.0	98.4
New Jersey	95.6	52.6	96.4	62.4	98.0	67.4	94.7	59.0
New Mexico	83.6	8.0	84.0	5.1	83.9	6.2	81.1	15.5
New York	83.2	34.1	85.4	38.0	86.6	43.7	86.4	37.7
North Carolina	98.8	90.7	99.2	92.5	99.2	95.1	94.1	67.9
North Dakota	74.9	33.5	79.9	38.0	79.4	32.9	74.7	24.3
Ohio	89.0	14.3	89.9	15.4	91.5	18.4	86.8	11.6
Oklahoma	92.1	53.5	94.5	54.5	94.0	62.1	91.3	59.0
Oregon	97.7	20.9	98.2	21.1	98.6	22.6	97.6	21.3
Pennsylvania	78.9	22.5	79.5	24.7	82.3	26.4	78.0	20.3
Rhode Island	100.0	87.2	100.0	65.6	100.0	85.6	R 88.6	86.7
South Carolina	98.4	68.2	98.6	82.8	98.4	74.7	97.2	75.7
South Dakota	85.9	60.1	87.9	67.5	88.1	56.8	86.5	45.8
Tennessee	92.1	56.4	93.3	56.4	97.4	55.3	96.9	57.2
Texas	94.2	34.7	93.8	35.8	94.4	32.1	R 93.8	R 26.2
Utah	100.0	14.9	100.0	25.6	100.0	22.9	100.0	20.7
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	94.7	21.0	96.6	24.9	95.6	20.0	92.7	R 17.7
Washington	94.2	47.7	94.8	50.4	97.8	54.6	93.6	52.9
West Virginia	63.6	15.7	64.0	13.3	62.7	12.2	53.5	R 11.9
Wisconsin	91.2	47.6	90.5	47.2	92.2	50.1	89.5	40.9
Wyoming	99.2	9.8	99.8	9.5	99.8	9.0	99.7	9.8
Total	87.7	R 35.4	88.4	R 36.1	89.3	R 36.5	R 86.5	R 34.2

See footnotes at end of table.

Table 32. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1989-1991 (Continued)

State	December 1990		November 1990		October 1990		September 1990	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	79.3	33.9	66.7	30.1	75.6	31.2	74.0	32.2
Alaska	100.0	69.1	100.0	68.4	100.0	68.6	100.0	67.9
Arizona	96.8	58.3	96.5	55.1	96.2	53.3	94.4	28.8
Arkansas	91.4	23.5	90.5	21.7	86.7	21.4	87.3	19.9
California	88.2	40.3	85.5	34.6	82.2	39.8	79.0	35.4
Colorado	97.0	20.4	97.0	31.3	94.5	29.1	95.4	35.2
Connecticut	99.1	95.5	98.3	92.8	91.2	80.6	87.1	76.5
Delaware	100.0	68.3	100.0	69.8	100.0	65.2	100.0	75.8
District of Columbia	100.0	--	100.0	--	100.0	--	100.0	--
Florida	96.3	48.9	97.7	49.5	97.2	52.0	97.4	51.0
Georgia	93.7	40.8	87.2	29.6	83.4	26.0	77.9	36.1
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	86.5	4	86.3	7	79.3	1	85.1	2
Illinois	62.7	27.0	51.2	17.0	53.6	14.9	43.5	11.1
Indiana	98.6	27.6	98.4	23.6	91.9	16.9	88.5	14.4
Iowa	97.7	41.6	97.5	41.2	95.5	36.3	92.3	31.9
Kansas	89.4	17.1	88.1	15.5	87.1	15.5	93.3	17.8
Kentucky	96.0	23.7	94.6	13.5	92.8	12.4	88.4	10.8
Louisiana	100.0	52.6	100.0	50.7	100.0	52.6	100.0	51.1
Maine	100.0	77.6	100.0	85.1	100.0	100.0	100.0	100.0
Maryland	95.7	45.2	94.8	30.8	93.5	20.8	92.8	19.0
Massachusetts	99.7	72.0	99.7	83.0	99.8	84.5	99.8	86.2
Michigan	72.9	14.3	68.3	10.6	60.1	7.3	50.0	6.1
Minnesota	98.7	56.4	97.7	54.7	92.4	32.9	89.5	26.0
Mississippi	91.5	41.5	89.8	43.1	89.0	42.5	89.0	42.5
Missouri	86.8	31.8	84.8	29.4	76.3	23.2	74.2	20.8
Montana	99.6	56.3	97.6	53.8	96.9	51.2	93.4	63.3
Nebraska	93.3	48.0	89.6	49.1	89.9	41.0	92.8	31.0
Nevada	99.1	13.5	98.4	14.6	96.7	19.2	95.0	14.8
New Hampshire	100.0	90.4	100.0	92.1	100.0	100.0	100.0	100.0
New Jersey	96.5	71.5	91.7	64.3	86.1	47.9	87.0	47.2
New Mexico	81.3	8.9	76.8	9.1	76.2	9.8	74.1	20.6
New York	84.6	36.2	84.0	35.3	79.6	29.2	80.2	24.7
North Carolina	99.0	93.1	98.6	88.2	83.0	36.5	83.7	37.7
North Dakota	75.8	29.0	69.8	23.1	58.5	17.7	57.4	17.4
Ohio	91.1	12.5	87.5	10.6	82.5	8.6	77.1	8.3
Oklahoma	89.7	69.7	89.0	63.6	86.7	63.8	87.5	58.4
Oregon	98.1	26.9	96.4	21.5	95.4	20.7	96.8	21.1
Pennsylvania	78.8	26.1	74.5	20.3	69.1	14.6	66.8	13.8
Rhode Island	R 63.2	97.8	R 86.7	78.5	R 70.2	72.8	R 64.2	75.5
South Carolina	98.3	77.5	97.5	70.1	96.7	62.0	97.4	72.1
South Dakota	86.4	55.3	82.1	52.0	77.9	36.6	82.1	34.6
Tennessee	97.0	56.6	95.8	50.2	94.6	75.2	94.2	55.5
Texas	94.9	R 26.5	92.7	R 29.5	92.3	R 25.8	R 93.4	R 25.5
Utah	100.0	23.0	100.0	20.3	100.0	18.6	100.0	20.6
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	93.3	18.8	92.1	R 17.1	92.4	R 14.5	91.5	R 14.5
Washington	96.5	46.9	95.7	49.5	91.7	58.0	90.1	52.7
West Virginia	56.7	R 11.0	51.5	13.8	34.0	9.5	30.6	11.4
Wisconsin	92.5	46.9	89.0	43.3	86.1	35.0	80.6	32.8
Wyoming	99.7	7.6	99.6	8.3	99.4	6.8	99.5	6.5
Total	87.9	36.6	84.6	R 34.8	R 81.2	R 31.8	80.4	R 31.7

See footnotes at end of table.

Table 32. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1989-1991 (Continued)

State	August 1990		July 1990		June 1990		May 1990	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	70.6	33.9	74.3	30.0	77.6	32.5	72.3	29.3
Alaska	100.0	68.8	100.0	70.5	100.0	65.3	100.0	80.5
Arizona	90.6	25.6	91.7	22.0	92.5	29.5	95.5	37.2
Arkansas	86.8	20.9	88.4	19.3	88.7	20.1	90.6	19.5
California	82.5	38.0	77.9	30.9	85.6	30.2	90.1	41.8
Colorado	94.4	39.3	94.6	36.8	97.4	33.1	97.2	30.1
Connecticut	86.8	77.2	87.4	77.4	89.9	78.6	92.3	78.2
Delaware	100.0	73.7	100.0	69.9	100.0	70.6	100.0	67.5
District of Columbia	100.0	--	100.0	--	100.0	--	100.0	--
Florida	97.2	49.1	97.4	59.6	97.2	61.0	97.3	62.5
Georgia	81.6	40.6	79.0	39.6	79.9	32.4	81.0	27.7
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	85.2	.3	86.2	.5	88.1	.6	85.8	.6
Illinois	40.8	9.4	39.7	13.7	39.6	8.6	51.9	14.9
Indiana	89.8	15.6	92.2	16.7	90.7	16.0	92.1	15.9
Iowa	95.6	31.4	95.3	30.9	96.3	29.0	97.2	29.6
Kansas	94.0	19.8	94.3	21.4	93.2	17.0	91.7	19.7
Kentucky	88.8	10.8	88.8	11.6	91.0	12.2	91.0	11.4
Louisiana	100.0	50.3	100.0	50.4	100.0	49.4	100.0	49.0
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	93.3	19.9	93.8	19.2	94.7	20.3	94.5	27.6
Massachusetts	99.8	93.3	100.0	96.9	100.0	92.7	100.0	94.6
Michigan	49.3	5.9	47.4	6.6	55.9	7.3	65.5	11.5
Minnesota	89.3	29.0	85.4	27.0	90.9	31.9	94.6	30.5
Mississippi	93.0	44.4	89.0	42.6	89.6	44.2	90.2	44.9
Missouri	72.4	22.0	72.5	22.3	78.8	23.0	83.7	27.7
Montana	95.9	75.5	96.3	77.0	98.4	79.7	96.9	82.1
Nebraska	94.1	28.5	96.8	28.1	89.3	31.1	92.1	34.4
Nevada	95.0	8.6	95.7	8.6	96.7	9.9	96.4	10.6
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	86.4	45.9	89.2	48.8	93.2	50.4	94.3	51.6
New Mexico	73.0	21.3	76.3	34.1	76.7	28.0	78.2	18.1
New York	83.4	29.5	83.5	31.2	81.4	28.0	82.4	33.2
North Carolina	84.0	45.2	84.3	52.6	85.4	47.8	88.3	47.3
North Dakota	53.4	17.1	54.3	19.2	69.7	20.3	75.4	22.2
Ohio	74.9	9.6	76.4	8.9	77.9	9.4	81.8	9.3
Oklahoma	88.5	53.3	88.1	55.9	89.8	44.3	91.9	49.4
Oregon	96.5	19.1	96.5	19.2	97.5	20.0	97.4	18.9
Pennsylvania	67.8	15.0	68.0	14.0	69.7	16.7	73.6	15.2
Rhode Island	100.0	81.4	100.0	82.2	100.0	85.4	100.0	88.6
South Carolina	97.0	79.1	97.1	81.2	97.1	77.6	90.5	74.3
South Dakota	82.5	31.4	82.0	36.5	83.1	40.1	78.5	40.6
Tennessee	95.1	51.4	94.2	53.0	94.5	52.1	94.6	52.6
Texas	94.4	25.8	94.1	R 25.2	95.4	23.7	94.1	22.3
Utah	100.0	19.7	100.0	19.1	100.0	18.7	100.0	18.5
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	91.4	R 15.8	93.8	R 12.3	93.5	R 14.9	93.8	R 16.6
Washington	88.4	47.2	88.3	45.8	88.8	47.4	90.9	49.6
West Virginia	33.5	11.2	30.0	11.6	37.2	10.5	49.2	10.8
Wisconsin	80.4	30.4	81.2	31.7	85.0	31.2	89.1	35.4
Wyoming	99.6	6.2	99.6	6.2	99.7	7.7	99.7	11.8
Total	81.9	R 32.5	82.0	R 32.1	84.0	R 30.4	85.6	R 31.1

See footnotes at end of table

Table 32. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1989-1991 (Continued)

State	April 1990		March 1990		February 1990		January 1990	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	74.3	27.6	77.7	R 32.7	80.1	R 31.4	85.3	R 36.3
Alaska	100.0	67.1	100.0	66.2	100.0	65.7	100.0	65.4
Arizona	94.7	41.7	96.1	46.1	97.3	56.6	97.5	60.5
Arkansas	93.2	15.4	93.7	18.2	94.7	21.9	95.8	22.9
California	90.3	40.6	94.4	46.7	81.0	37.4	95.8	57.7
Colorado	97.5	30.4	97.8	32.1	98.0	32.5	98.1	31.7
Connecticut	95.9	86.0	98.6	86.6	100.0	98.5	100.0	99.7
Delaware	100.0	69.9	100.0	74.0	100.0	72.2	100.0	78.2
District of Columbia	100.0	--	100.0	--	100.0	--	100.0	--
Florida	100.0	74.2	100.0	72.4	100.0	72.5	100.0	72.4
Georgia	86.2	27.5	88.1	27.3	89.8	25.3	96.3	58.3
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	87.7	6	89.7	.5	90.4	6	91.5	6.4
Illinois	54.3	16.8	59.2	22.3	64.8	31.4	64.6	28.5
Indiana	90.2	18.5	93.5	18.4	98.6	28.3	99.2	29.3
Iowa	97.8	34.2	98.1	38.9	98.2	46.1	98.5	44.5
Kansas	92.7	16.6	90.7	15.4	90.9	18.9	92.7	22.3
Kentucky	94.4	13.0	96.0	15.5	96.7	21.8	97.0	40.2
Louisiana	100.0	49.8	100.0	45.4	100.0	45.4	100.0	45.5
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	95.8	36.9	96.1	42.1	97.2	59.9	97.6	59.0
Massachusetts	100.0	93.4	100.0	90.2	100.0	91.8	100.0	94.2
Michigan	70.5	14.7	72.8	17.7	72.3	18.8	71.4	21.0
Minnesota	94.6	35.2	95.6	45.5	96.2	51.3	97.5	53.3
Mississippi	99.3	54.3	99.3	57.1	99.5	51.5	99.6	52.2
Missouri	89.0	32.7	89.9	37.7	91.4	46.3	94.1	55.8
Montana	98.6	75.0	97.7	68.8	97.8	73.3	97.9	56.5
Nebraska	93.0	40.5	93.9	43.9	95.2	56.6	95.5	59.6
Nevada	97.0	11.3	97.7	11.8	99.4	18.8	99.1	27.3
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	94.4	59.8	96.6	61.4	99.3	73.2	99.6	81.3
New Mexico	82.4	13.3	85.1	8.7	83.4	9.1	85.5	8.6
New York	87.9	35.2	88.2	40.5	93.7	60.9	92.2	58.2
North Carolina	96.8	71.6	97.9	93.1	98.2	97.5	98.5	99.3
North Dakota	76.1	23.4	78.4	29.5	82.5	30.4	83.9	27.7
Ohio	86.0	11.4	89.5	12.6	88.9	12.8	89.6	20.4
Oklahoma	92.5	55.1	91.3	59.3	92.6	65.1	94.3	65.0
Oregon	97.3	21.1	98.4	21.5	98.5	18.9	98.2	26.6
Pennsylvania	79.6	20.8	80.5	23.5	83.3	28.2	85.7	30.6
Rhode Island	100.0	89.4	100.0	95.1	100.0	100.0	100.0	100.0
South Carolina	97.7	76.9	97.9	76.6	98.0	85.6	98.3	79.4
South Dakota	88.1	48.0	90.3	50.8	90.2	56.0	90.8	65.8
Tennessee	97.5	54.7	98.4	61.0	98.2	63.3	98.7	65.5
Texas	94.2	22.4	90.0	29.0	94.0	29.0	94.6	R 31.8
Utah	100.0	19.8	100.0	19.1	100.0	23.9	100.0	24.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	85.8	R 20.0	90.1	R 24.1	95.6	20.9	97.1	25.6
Washington	92.1	50.3	93.2	60.5	95.9	63.4	96.2	61.0
West Virginia	55.9	10.1	60.2	10.8	63.6	15.0	68.5	17.1
Wisconsin	90.9	39.3	90.9	44.2	90.4	47.1	90.6	55.6
Wyoming	99.8	11.4	99.7	13.9	99.7	13.8	99.7	19.1
Total	R 86.9	32.7	88.4	R 35.8	88.7	R 37.9	R 90.7	R 42.0

See footnotes at end of table

Table 32. Percentage of Total Deliveries Represented by Onsystem Sales by State, 1989-1991 (Continued)

State	Total 1989		December 1989		November 1989		October 1989	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	82.9	37.4	85.6	42.4	78.3	32.6	84.4	33.0
Alaska	100.0	55.1	100.0	51.7	100.0	61.4	100.0	48.0
Arizona	93.7	44.5	95.3	57.5	94.8	55.6	91.6	44.2
Arkansas	93.1	19.4	93.4	23.5	90.7	18.1	87.5	16.4
California	91.8	44.1	92.2	52.6	90.1	25.9	88.5	72.4
Colorado	97.3	43.3	97.2	35.4	96.9	34.6	95.6	41.7
Connecticut	91.2	91.4	99.5	100.0	90.8	96.5	85.5	86.4
Delaware	100.0	75.6	100.0	74.1	100.0	68.9	100.0	68.0
District of Columbia	100.0	--	100.0	--	100.0	--	100.0	--
Florida	100.0	74.7	100.0	74.7	100.0	68.7	100.0	72.4
Georgia	90.2	36.4	96.8	59.6	89.4	36.4	86.4	29.6
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	87.5	5	87.4	6	84.5	6	79.3	3
Illinois	69.3	29.6	74.5	36.9	68.9	30.6	64.5	27.6
Indiana	95.1	21.7	98.9	32.0	97.7	22.5	91.9	17.2
Iowa	97.8	44.2	98.3	45.7	97.6	48.4	96.6	49.5
Kansas	93.1	22.1	92.9	26.7	88.2	19.7	88.9	22.6
Kentucky	94.9	30.9	97.0	41.0	94.4	21.8	90.7	20.8
Louisiana	99.9	47.4	99.9	40.5	99.9	42.4	99.9	45.4
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	96.2	32.5	96.8	45.7	94.6	31.5	94.2	24.3
Massachusetts	99.9	98.4	99.9	99.6	99.9	96.9	99.9	100.0
Michigan	70.4	17.6	73.5	22.5	69.5	15.5	64.4	12.3
Minnesota	95.8	47.2	97.0	56.2	94.9	45.4	91.9	46.1
Mississippi	100.0	50.7	100.0	56.4	100.0	49.7	100.0	50.6
Missouri	92.3	47.4	92.3	48.5	90.3	47.2	88.8	41.3
Montana	98.1	73.7	98.1	59.2	97.9	61.3	97.5	56.8
Nebraska	58.4	43.3	98.5	58.7	98.1	60.5	98.8	76.7
Nevada	96.1	11.3	98.8	13.0	97.2	7.4	96.2	11.2
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	97.8	61.5	99.7	83.5	99.0	71.6	94.7	53.9
New Mexico	88.1	17.3	87.6	16.8	85.6	13.7	86.9	16.6
New York	85.5	39.7	89.7	51.7	82.4	39.4	74.8	35.0
North Carolina	93.5	70.1	98.1	98.0	97.1	92.1	86.3	48.7
North Dakota	80.3	26.2	81.6	27.3	74.8	21.2	70.9	15.5
Ohio	86.4	16.0	90.3	19.9	87.8	15.8	85.1	15.9
Oklahoma	89.6	50.0	91.2	61.1	89.1	55.5	86.5	46.2
Oregon	98.2	21.9	98.0	22.1	97.3	21.8	96.7	20.8
Pennsylvania	85.3	29.1	85.3	39.0	82.9	31.6	80.3	23.3
Rhode Island	83.9	82.3	100.0	100.0	100.0	88.9	82.7	87.5
South Carolina	98.1	78.5	97.3	91.3	98.0	82.5	97.8	70.5
South Dakota	92.1	60.6	92.0	63.9	91.1	57.8	89.6	56.4
Tennessee	98.1	62.4	99.1	66.3	97.4	62.7	97.1	61.0
Texas	89.9	25.5	92.7	24.6	86.9	24.5	86.3	24.7
Utah	100.0	28.4	100.0	23.4	100.0	23.3	100.0	22.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	97.1	36.3	97.9	44.6	96.4	38.7	93.3	24.8
Washington	94.0	58.6	96.5	52.9	93.6	51.0	93.0	62.5
West Virginia	61.5	27.9	71.5	34.4	58.6	26.3	49.5	22.8
Wisconsin	92.6	36.9	95.0	58.0	91.1	36.6	84.3	25.0
Wyoming	99.9	16.7	99.7	16.2	99.7	11.9	99.6	12.9
Total	89.0	36.3	90.7	39.2	87.6	34.4	85.2	37.2

R = Revised Data

-- = 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 7. Percentage of Total Deliveries Represented by Onsystem Sales, 1989-1991

Source: Form EIA-857.

Appendix A

Explanatory Notes

Explanatory Notes

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 1989, of the 32 producing States, 22 reported data on nonhydrocarbon gases removed. The 22 States accounted for 57 percent of total 1989 gross withdrawals. Of the 22 States reporting nonhydrocarbon gases removed, 11 reported zero values: Alaska, Arizona, Arkansas, Illinois, Indiana, Maryland, Missouri, 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 38 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

Monthly data are revised after publication of the *Natural Gas Annual* by proportionally allocating the differences between 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 32 gas-producing States on Form EIA-627 which includes gross withdrawals, vented and flared, repressuring, nonhydrocarbon gases removed, 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 an average rate of change between the report month and the prior month over the previous 3 years. The rate-of-change percentage is applied to the data for the month prior to the report month to compute the estimate for the report month in the current year.

Estimates for total U.S. marketed production are based on the application of historical (latest 3 calendar years) month-to-month ratios of daily production rates to the latest preliminary reported monthly production data. State estimates for nonhydrocarbon gas removed, gas used for repressuring, and gas vented and flared are based on the ratio of the latest preliminary reported 3-month average of these categories to marketed production. These ratios are applied to the estimates of marketed production to calculate figures for nonhydrocarbon gases removed, gas used for repressuring, and gas vented and flared. Estimates for gross withdrawal data are the sum of the estimates calculated for nonhydrocarbon gases removed, gas used for repressuring, gas vented and flared, and marketed production.

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 Compact Commission (IOCC) 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

The differences between each State's annual production data reported on the annual Form EIA-627 and the sum of its monthly IOCC reports (January-December) are allocated proportionally to the monthly IOCC 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 sales 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 (excluding nonhydrocarbon gases). 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 (excluding nonhydrocarbon gases) 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 1989*.

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 disposition.

Note 7. Natural Gas Storage

Underground Natural Gas Storage

All monthly data concerning underground storage are published from the essentially identical forms, FERC-8 and EIA-191. A new EIA-191 became effective in January 1991. Monthly data are revised after publication of "Underground Natural Gas Storage in the United States" for the heating year (April through March) in which the report month falls. In addition, injection and withdrawal data from the FERC-8/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 1985 through 1989 shown in Table 2 include both underground and liquefied natural gas (LNG) storage. Underground storage data are obtained from the FERC-8/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 wellhead value. This unit price is then applied to the quantity of the State's marketed production to derive the imputed value of marketed production.

Preliminary Monthly Data

An estimate of the U.S. gas price is made each month based on monthly gas prices from four States: Mississippi, New Mexico, Oklahoma, and Texas.

Final Monthly Data

Preliminary monthly data are revised after the publication of the *Natural Gas Annual*. The weighted average 12-month prices for Texas, New Mexico, Oklahoma, and Mississippi are compared to the wellhead prices published for each of the four States in the *Natural Gas Annual*. The ratio derived from this comparison is then applied to each month's estimates for those States, and the monthly data are revised.

Note 9. Financial Data of Major Interstate Pipeline Companies

The prices in Table 4 for imports and purchases from producers, and industrial sales by major interstate pipeline companies, and all data in Tables 12 through 16 are derived from Form FERC-11. Form FERC-11 is filed monthly by the approximately 47 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 12 through 16 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 Form 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 December data for the current survey year.

Note 10. Natural Gas Policy Act of 1978

Tables 5 and 8 through 11, in this publication contain data reported by the natural gas industry under Title I of the Natural Gas Policy Act of 1978 (NGPA).

Title I of the NGPA - Wellhead Prices

The NGPA signed into law on November 9, 1978, mandated a new framework for the regulation of most facets of the natural gas industry. Ceiling prices were established for all production of natural gas. For gas produced from both new and old (pre-NGPA) reserves, ceiling prices depend on contract provisions and the characteristics of the well. If a well qualifies under more than one provision in Title I of the NGPA, the highest maximum ceiling price is applicable. Further, all price ceilings are adjusted by a monthly inflation adjustment.

Natural gas dedicated to interstate commerce on or before the November 9, 1978 enactment of the NGPA has as a maximum lawful price the "just and reasonable" rate as established by the Federal Energy Regulatory Commission under Section 104.

The maximum lawful price of natural gas under old intrastate contracts (Section 105) is based on its contract price on November 9, 1978, and is, in general, much higher than for comparable old interstate gas. Gas production under Sections 104, 105, and 106 (old contracts that have "rolled over") constitute what is referred to as "old gas."

Almost all development and extension wells begun after February 19, 1977, qualify as new onshore production (Section 103). In order to qualify for new gas sta-

tus under Section 102, an onshore well started after February 19, 1977, must produce from a new reservoir or be at least 2.5 miles from, or 1,000 feet deeper than, a "marker well" (a well producing in commercial quantities any time between January 1, 1970, and April 20, 1977). Offshore gas qualifies for Section 102 if production is from new leases (entered into on or after April 20, 1977) or reservoirs "discovered" on or after July 27, 1976.

Production from wells qualifying under Section 107 is given special treatment as "high-cost gas" and is defined as gas produced:

- From wells started after February 19, 1977, and completed to produce from a depth greater than 15,000 feet
- From geopressured brine
- From coal seams
- From Devonian shale
- Under conditions determined by the Federal Energy Regulatory Commission to present extraordinary risks or costs.

On November 1, 1979, gas from the first four categories was deregulated. On August 15, 1980, natural gas produced from tight formations (geologic formation where tight packing of the reservoir rock causes low production rates) was defined as high-cost gas with a ceiling price set at 200 percent of the Section 103 price.

Under the NGPA, producers applying for price classification under Sections 102, 103, 107, or 108 must file Form FERC-121, with the applicable State jurisdictional agency. The forms are then sent to FERC for review. The filings are grouped according to the month received by FERC. Not all submissions contain estimated annual volumes or contract prices. Annual volumes are often estimated by producers prior to actual operations or based on short periods of operation. Price data from Form FERC-121 are not included in this publication, since submission dates vary and prices may have changed subsequent to submission.

On January 1, 1985, the following categories of gas were deregulated pursuant to NGPA Section 121:

- Section 102(c) "new natural gas"
- Section 103(c) "new onshore production wells" which were not committed or dedicated to interstate commerce on April 20, 1977, and which produce gas from a completion location deeper than 5,000 feet.
- Sections 105 and 106(b) "intrastate gas under contracts" where the price paid on December 31, 1984, is higher than \$1.00 per million Btu, provided that such price over \$1.00 was not established by operation of an indefinite escalator clause.

On July 1, 1987, the following category of gas was deregulated pursuant to NGPA Section 121:

- Section 103(b)(2) "new onshore production wells" which were not committed or dedicated to interstate commerce on April 20, 1977, and which produce gas from a completion location less than 5,000 feet deep.

On July 26, 1989, the President signed legislation to remove all remaining natural gas wellhead price controls by 1993.

Note 11. 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 1989*.

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.

Final Monthly Data

Final monthly data in the "balancing item" category are calculated by subtracting dry gas production, withdrawals from storage, supplemental gaseous fuels, and imports from total supply/disposition.

Note 12. Purchased Gas Adjustments

The Purchased Gas Adjustment filings for selected interstate pipeline companies have been aggregated to present volume and price data by NGPA category as shown in Table 5. These filings represent over 85 percent of the wellhead purchases subject to the NGPA and dedicated to the interstate market.

Respondents file projections quarterly in an abbreviated format, and one detailed filing per year. The projected volume and price data are used for each month for which the filing is effective.

Table A1. PGA Respondents

Pipeline Company -----

Alabama-Tenn
Algonguin Gas Trans
ANR Pipeline
Arkla Gas
Carnegie Nat Gas
CNG Trans Corp
Colorado Inter
Columbia
E. Tenn Natural Gas
Eastern Shore
El Paso
Equitrans Inc
Florida
Granite St Gas Trans
Great Lakes Gas
KN Energy
Kentucky W. Va
Mid-Louisiana Gas
Midwestern
MS. River Trans
National Fuel Supply
Natural (a)
North Penn Gas
Northern Natural
Northwest Pipeline
Pacific Gas Trans
Paiute Pipeline Co
Panhandle Eastern (a)
Questar Pipeline Co
Ringwood Gathering
South Georgia
Southern Natural
Tennessee Gas Pipeline
Texas Eastern
Texas Gas Trans
Transcontinental (a)
Trunkline
United
Valero Interstate
Viking Gas Trans
West Texas Gas Inc
Western Gas Inter
Williams Nat Gas
Williston Basin

(a) Temporary filing waiver.

Appendix B

Data Sources

Appendix B

Data Sources

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

Data are collected from two annual surveys and five monthly surveys. Filings with the FERC also provide sources of data for this publication.

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

The monthly reports include three surveys of the natural gas industry and two surveys of the electric utility industry. The natural gas industry surveys are the Forms FERC-8 and 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.

Data in this publication are also taken from two types of reports that are filed with the FERC under its regulatory functions. One filing is the Form FERC-121, filed by natural gas producers who are the first seller of gas that qualified for an incentive price. The other filing is the "Purchased Gas Adjustment," which is filed by interstate pipeline companies to allow them to recover changes in their purchase prices for natural gas above the cost of service reflected in their current filings.

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. The 1982 revision of the Form EIA-176 continues to be the basis of the current version of this form. On March 4, 1985, the Form EIA-176 was again approved by the Office of Management and Budget for use through report year 1986.

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 continues to be 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 activi-

ties, may file the short form. Usually, these companies are municipals handling small volumes of gas.

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 February 1990 for report year 1989 totaled 2,138 questionnaire packages. To this original mailing, 9 names were added and 2 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 2,145 responses from approximately 1,800 companies.

Following the original mailing, second request mailing, and nonrespondents followup, 2,145 responses were entered into the data base, and there were no nonrespondents.

Summary of Form EIA-176 Data Reporting Requirements

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

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

Routine Form EIA-176 Edit Checks

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

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

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

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

Other EIA Publications Referencing Form EIA-176

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

Form EIA-176

Figure B1. Form EIA-176

U.S. DEPARTMENT OF ENERGY
ENERGY INFORMATION ADMINISTRATIONForm Approved
OMB No. 19050175
Expires: 12/31/90ANNUAL 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 1H-023 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="text"/>	4.0 Resubmittal <input type="text"/> Date: <input type="text"/>
-----------------	-------------------	------------------	--------------------------	---

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

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

5.1 Change mail address to:

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

6.0 Contact person:

Name: _____	Telephone Area Number: _____	Code _____	No. _____	Ext. _____
-------------	------------------------------	------------	-----------	------------

PART II: CERTIFICATION AND DISCLOSURE STATEMENT

1.0 I certify that (Check appropriate box):

- a. ☐ The information provided herein and appended hereto is true and accurate or, where indicated on the form, reasonable estimates to the best of my knowledge.
b. ☐ My company does not meet any of the criteria set forth in Section II, "Who must submit," of the instructions and is therefore not required to complete and submit a Form EIA-176 for the report State.
c. Does the information supplied on this form contain trade secrets and/or confidential commercial information? ☐ Yes ☐ No

2.0 Name

3.0 Title

4.0 Signature

5.0 Date

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

Page 1

EIA-176
(Revised 1988)

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

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

PART III: TYPE OF COMPANY AND GAS ACTIVITIES OPERATED IN THE REPORT STATE**1.0 Type of Company (check one)**

- a ☐ Investor owned distributor
- b ☐ Municipally owned distributor
- c ☐ Interstate pipeline
- d ☐ Intrastate pipeline
- e ☐ Storage operator
- f ☐ SNG plant operator
- g ☐ Integrated oil and gas
- h ☐ Producer
- i ☐ Gatherer
- j ☐ Processor
- k ☐ Other (specify) _____

2.0 Gas Activities Operated On-system Within the Report State (check all that apply)

a ☐ Produced Natural Gasb ☐ Gatheredc ☐ Processedd ☐ Purchasede ☐ Transported Interstatef ☐ Transported Intrastateg ☐ Stored Undergroundh ☐ Stored LNGi ☐ Injected Propane-airj ☐ Produced SNGk ☐ Importedl ☐ Exported	m ☐ Delivered for Resalen ☐ Delivered directly to consumers☐ Other (specify) _____

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

	Volume (Mcf at 14.73 psia)	e or f	Cost (Dollars)	e or f
1.0 Company owned natural gas produced on-system				
2.0 On-system purchases received:				
2.1 From producers, gatherers, and/or gas processors				
2.2 From pipeline, distribution, and/or storage operators				
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, exchange, and/or storage 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 company operated storage facilities:				
5.1 From underground storage				
5.2 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				

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

1.0 Control No	2.0 Company Name	3.0 Report State	EIA 	4.0 Resubmittal Date 	
PART V: DISPOSITION OF NATURAL AND SUPPLEMENTAL GAS WITHIN OR TRANSPORTED OUT OF REPORT STATE					
		Volume (Mcf at 14.73 psia)	e or f	Cost or Revenue (Dollars)	e or f
1.0 Used in well, lease, and field operations					
2.0 Returned to oil and/or gas reservoirs					
3.0 Used, removed, or lost in gas processing or treating plants					
3.1 Company operated plants:					
3.1.1 Volume delivered to company operated plants for redelivery Mcf					
3.1.2 Volume used for plant fuel					
3.1.3 Extraction loss (Estimated gas phase volume of liquids extracted)					
3.1.4 Volume of nonhydrocarbons removed (e.g., H ₂ S & CO ₂)					
3.1.5 Vented, flared, and/or lost					
3.2 Plants operated by others:					
3.2.1 Volume delivered to plants operated by others for redelivery Mcf					
3.2.2 Total volume used, removed, vented, and/or flared					
4.0 Used in pipeline, storage, and/or distribution operations					
5.0 Added to company operated storage facilities:					
5.1 Injected into underground storage					
5.2 Added to liquefied natural gas storage					
6.0 Transportation, exchange, and/or storage deliveries:					
6.1 Delivered at point(s) within the report State					
6.2 Delivered at the State line or U.S. border to:					
(Company) 					
(State or Country) 					
(Continue on Part VI, if more space is needed)					
7.0 Transported out of the report State to:					
(State or Country) 					
(Continue on Part VI, if more space is needed)					
8.0 Delivered for sales for resale:					
8.1 Delivered 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 Delivered directly to consumers:					
(Type of transaction and consumer)		(Number of consumers)			
9.1 Residential sales					
9.2 Commercial sales					
9.3 Industrial sales					
9.4 Electric utility sales					
9.5 Transported to industrials					
9.6 Transported to electric utilities					
9.7 Transported to commercial consumers					
10.0 Average heat content of gas delivered directly to consumers					
(Btu per cubic foot) Btu					
11.0 Other disposition (specify)					
(Continue on Part VI, if more space is needed)					
12.0 Total disposition accounted for					
13.0 Unaccounted for gas supply (+) or disposition (-)					

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

1.0 Control No.	2.0 Company Name	3.0 Report State	EIA	4.0 Resubmittal	Date
PART VI: CONTINUATION SHEET					Sheet ____ of ____
(To be used only if insufficient space was provided on Part IV and/or Part V)					
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, exchange, and/or storage 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: (Continued)	State or Country				
	State or Country				
	State or Country				
	State or Country				
PART IV, 7.0 Other sources of supply (specify): (Continued) (Source and/or kind of fuel)					
Disposition (Continued)					
PART V, 6.2 Transportation, exchange, and/or storage deliveries at State line or U.S. border to: (Continued)	Company				
	State or Country				
	Company				
	State or Country				
PART V, 7.0 Transported out of report State to: (Continued)	State or Country				
	State or Country				
	State or Country				
	State or Country				
PART V, 8.2 Delivered for sale for resale at State line or U.S. border to: (Continued)	Company				
	State or Country				
	Company				
	State or Country				
PART V, 11.0 Other Disposition (specify): (Continued)					

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Date

PART VII: FOOTNOTES

[illegible]

Figure B2. Form EIA-176, Short Form

U.S. DEPARTMENT OF ENERGY
ENERGY INFORMATION ADMINISTRATION

Form Approved
OMB No. 19050175
Expires: 12/31/90

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 1H-023 Forrestal, 1000 Independence Ave SW, Washington DC 20585; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington DC 20503.

EIA USE

Affix mailing label or enter mail address

Control (ID) No. _____

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

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

Name: _____
Operations in (State): _____
Street or Post Office Box: _____
City, State, Zip Code: _____
Attention: _____

PART I: IDENTIFICATION

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

PART II: CERTIFICATION AND DISCLOSURE STATEMENT

1.0 I certify that (Check appropriate box):	
a. ☐ The information provided herein and appended hereto is true and accurate or, where indicated on the form, reasonable estimates to the best of my knowledge. b. ☐ My company does not meet any of the criteria set forth in Section II, "Who must submit," of the instructions and is therefore not required to complete and submit a Form EIA-176 for the report State. c. Does the information supplied on this form contain trade secrets and/or confidential commercial information? ☐ Yes ☐ No	
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.

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

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

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

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

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

	Volume (Mcf at 14.73 psia)	e or f	Cost (Dollars)	e or f
2.0 On-system purchases received:				
2.1 From producers, gatherers, and/or gas processors				
2.2 From pipeline, distribution, and/or storage operators				
2.3 From synthetic natural gas plants or SNG pipeline				
7.0 Other sources of supply (specify):				
(Source and/or kind of fuel)				
<div style="border: 1px solid black; width: 100px; height: 15px; margin: 5px 0;"></div>				
(Continue on Part VI, if more space is needed)				
8.0 Total Supply within report State				

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

	Volume (Mcf at 14.73 psia)	e or f	Cost or Revenue (Dollars)	e or f
4.0 Used in pipeline, storage and/or distribution operations				
9.0 Delivered directly to consumers:				
(Type of transaction and consumer) (Number of consumers)				
9.1 Residential sales				
9.2 Commercial sales				
9.3 Industrial sales				
9.4 Electric utility sales				
10.0 Average heat content of gas delivered directly to consumers (Btu per cubic foot) <div style="border: 1px solid black; width: 100px; height: 15px; display: inline-block; margin-left: 10px;"></div> Btu				
11.0 Other disposition (specify)				
<div style="border: 1px solid black; width: 100px; height: 15px; margin: 5px 0;"></div>				
(Continue on Part VI, if more space is needed)				
12.0 Total disposition accounted for				
13.0 Unaccounted for gas supply (+) or disposition (-)				

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EIA-176 SHORT FORM

Page 3

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

Survey Design

Beginning with 1980, natural gas production data previously obtained on an informal basis from State conservation agencies were collected on Form EIA-627 (Figure D2). 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. 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 32 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 1989, data on the quantities of nonhydrocarbon gases removed were reported by the appropriate agencies of 22 of the 32 States. These 22 States accounted for 57 percent of total 1989 gross withdrawals. In addition, gross withdrawal data from Kansas, Oklahoma, Louisiana, and Montana, which together accounted for 38 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 form that collects data on the 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; 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 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 Compact Commission Form "Monthly Report of Natural Gas Production"

Survey Design

The Interstate Oil Compact Commission (IOCC) is an organization comprised of 32 gas and oil producing States; the Governor of each State sits on the board of the IOCC. The IOCC form, "Monthly Report of Natural Gas Production," (Figure D3) is a voluntary report filed to the IOCC by most of the producing States. The IOCC 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 IOCC. 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 IOCC approximately 80 days after the end of the report month.

ANNUAL QUANTITY AND VALUE OF NATURAL GAS REPORT

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

PART I: IDENTIFICATION DATA	
1. Name of State Reporting	2. Calendar Year Being Reported <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
3. Name of Office/Agency	
4. Office Address (Street, City, State, Zip Code)	
5. Name of Contact Person	6. Phone Number of Contact Person (<input type="text"/> <input type="text"/> <input type="text"/>) <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
PART II: NATURAL GAS VOLUMES	
7. Enter the pressure base at which all volumes are reported (psia at 60°F)	
8. Gross Withdrawals	
<p align="center">REPORT ALL VOLUMES IN MILLIONS OF CUBIC FEET</p> <p align="center"><i>Gross withdrawals should represent full well stream volumes including all natural gas plant liquids and nonhydrocarbon gases, but excluding lease condensate. Also, include amounts delivered as royalty payments or consumed in field operations.</i></p> <p align="center">PROVIDE BEST ESTIMATE WHEN GAS IS NOT METERED</p>	
Item (a)	Volume (b)
(1) Are the gross withdrawal quantities available from your records consistent with the definition stated above? (i) ☐ Yes (ii) ☐ No . . . Explain the difference(s) in PART IV	
(2) Enter the volume of natural gas from gas and condensate wells	
(3) Enter the volume of natural gas from oil wells (casinghead)	
(4) Enter the total of 8(2) and 8(3)	
9. Enter quantity of natural gas returned to formation for repressuring, pressure maintenance and cycling	
10. Enter quantity of natural gas vented to air or burned in flares on the lease or at gas processing plants	
11. Enter quantity of nonhydrocarbon gases removed in treating or processing operations	
12. Enter marketed production (Enter the result of line 8(4) less lines 9, 10, and 11)	

ANNUAL QUANTITY AND VALUE OF NATURAL GAS REPORT

PART III: NATURAL GAS VALUES

13. Value of Marketed Production (Wellhead Sales Prices)

NOTE

The value reported on line 14 below 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.

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 on line 14.

Line No.	Item (a)	Included (b)	Excluded (c)
(1)	Natural gas plant liquids		
(2)	Lease condensate		
(3)	Gathering and compression charges		
(4)	State production, severance, and/or similar taxes		

14. Enter the available value of marketed production

REPORT IN THOUSANDS OF DOLLARS

\$

15. Enter the quantity of marketed production associated with the value entered in 14.

REPORT IN MILLIONS OF CUBIC FEET

16. Enter the total number of producing gas wells in operation as of December 31 for the reporting year.

PART IV: COMMENTS

17. Enter any additional comments you may have, including identification and explanation of any data elements submitted based on definitions differing from those applications to data which you provided for the previous year. If more space is needed, please attach separate sheet(s) and put "sheet ____ of ____" in the upper right corner of those sheets.

INTERSTATE OIL COMPACT COMMISSION

HEADQUARTERS OFFICE: 900 N. E. 23RD STREET • P. O. BOX 53127 • OKLAHOMA CITY, OKLAHOMA 73152
TELEPHONE: (405) 525-3556

Address Reply to Headquarters Office

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 the Interstate Oil Compact Commission, Box 53127, Oklahoma City, OK 73152.

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 estimates 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. _____

MEMBER STATES: ALABAMA • ALASKA • ARIZONA • ARKANSAS • CALIFORNIA • COLORADO • FLORIDA • ILLINOIS • INDIANA • KANSAS • KENTUCKY
LOUISIANA • MARYLAND • MICHIGAN • MISSISSIPPI • MONTANA • NEBRASKA • NEVADA • NEW MEXICO • NEW YORK • NORTH DAKOTA • OHIO
OKLAHOMA • PENNSYLVANIA • SOUTH DAKOTA • TENNESSEE • TEXAS • UTAH • WEST VIRGINIA • WYOMING
ASSOCIATES: GEORGIA • IDAHO • NORTH CAROLINA • OREGON • SOUTH CAROLINA • WASHINGTON

Summary of Data Requirements

The IOCC 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 country, 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 91 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 filed, although there is no specific requirement that the respondent do either. 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 Forms FERC-8/EIA-191

The EIA publication *Monthly Energy Review* contains data from the FERC-8/EIA-191 survey.

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

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

UNDERGROUND GAS STORAGE REPORT

I. RESPONDENT IDENTIFICATION DATA

Control (ID) No. _____

Name _____

Street or Post Office Box: _____

City, State, Zip Code: _____

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

Person to contact if questions arise concerning this report:		Tel. No. (Include Area Code and Extension)		Report Period Ending Date		Mo	Yr
II. GAS STORAGE DATA (All volumes in Mcf - 14.73 psia - 60°F)							
Field name	Location	State	Reservoir Capacity				
Reservoir Name	County		Winter Design Day Deliverability (in Mcf)				
☐ Estimated ☐ Actual ☐ Revised	Base Gas		Working Gas	Total Gas In Storage	Injections	Withdrawals	
Respondent's Gas In Reservoirs Operated by Respondent							
Gas Belonging To Others In Reservoirs Operated by Respondent							
Total Gas (Sum of A and B)							
			Peak Day Sendout (in Mcf)		Date	Mo	Da
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 D5) 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 40 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

Data are collected on standard forms that initially are manually reviewed and coded. Reviews are made to ensure consistency in reporting within and among utilities in the presentation of current and 12-month financial and sales data. Also, receipts and disposition of gas are analyzed between domestic and foreign producers. Data are later sent for keying, which begins the automated processing. Data are keyed to tape or disk for data editing. Edit reports are produced and are reviewed manually.

Other EIA Publications Referencing Form FERC-11

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

FERC-121, "Application for Determination of the Maximum Lawful Price Under the Natural Gas Policy Act"

Survey Design

Form FERC-121 (Figure D6) was designed by the Federal Energy Regulatory Commission (FERC) to carry out its authority to regulate natural gas prices under the Natural Gas Policy Act. Form FERC-121 is initially filed with the agency having jurisdiction over the lease on the land where the well is drilled, for example, State agencies or the Department of Interior. The agencies determine whether or not to grant the application. The application, support documentation, and decision are forwarded to FERC, which has 45 days to review the decision. Data are not considered proprietary.

Survey Universe and Response Statistics

Form FERC-121 must be filed by any natural gas producer who is the first seller of gas that qualifies for an incentive price. At the end of February 1988, FERC had 408,363 applications from 12,000 producers on file. Of the total applications, approximately 20 percent are reapplications requesting new price determinations on wells that have been producing under a previous application.

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)					

FERC FORM NO. 11 (REVISED 12-84)

Page 1 of 4

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)					

Summary of Form FERC-121 Data Reporting Requirements

Form FERC-121 requires information on the location and API number of the well, the name and address of the applicant, the type of determination being sought, the estimated annual production, and the contract price.

In addition to Form FERC-121, each application must be submitted with support documentation; for example, a well completion report for Section 103 filings, and geological information on surrounding wells for Section 102 applications.

Routine Form FERC-121 Edit Checks

Upon receipt at FERC, forms are checked manually for completeness. In addition, a computerized edit program flags incomplete or incorrect data.

Purchased Gas Adjustment Filings

The purpose of the PGA is to allow interstate natural gas pipeline companies to recover changes in their purchase prices for natural gas above the cost of service reflected in their current tariff filings. To allow recov-

ery in a timely manner, the key data reported in the PGA are projections of purchases in the immediate future. In most cases, companies report both the NGPA Section number covering each contracted purchase and the date of the contract. These data make the PGA filings a unique source of information about the current state of the natural gas market. Data are not considered proprietary.

Description of Data

Fifty-eight interstate pipeline companies submit PGA filings. Pipeline companies that transport only intrastate supplies of natural gas do not submit filings, nor do companies that have no purchased gas adjustment clauses in their tariffs.

All PGA filings include projected purchases for a defined future period by NGPA category. Projected volumes and prices represent the company's best estimate of natural gas purchase volumes and costs during the subsequent effective tariff period. The figures are usually derived from those of similar past periods. Annual PGA filings also include "actual" volumes and prices for some past period. The two sets of figures cannot, in general, be used to check each other because the actual figures can cover periods other than past projections. To the extent that the two sets of figures can be compared, they appear to approximate but not to match each other.

Figure B7. Form FERC-121

Form FERC-121

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

Form Approved
OMB No. 19050175
Expires: 12/31/90

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)
(Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Use the codes in the table below for type of determination in item 2.

Section of NGPA (a)	Category Code (b)	Description (c)
102	1	New OCS lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS lease
103	-	New onshore production well
107	0	Deep (more than 15,000 feet) high-cost gas
107	1	Gas produced from geopressured brine
107	2	Gas produced from coal seams
107	3	Gas produced from Devonian shale
107	5	Production enhancement gas
107	6	New tight formation gas
107	7	Recompletion tight formation gas
108	0	Stripper well
108	1	Stripper well — seasonally affected
108	2	Stripper well — enhanced recovery
108	3	Stripper well — temporary pressure buildup
108	4	Stripper well — protest procedure

Enter the appropriate information regarding other Purchasers/Contracts.

Line No.	Contract Date (Mo, Da, Yr) (a)	Purchaser (b)	Buyer Code (c)
1			
2			
3			
4			
5			
6			

Remarks:

FERC-121 (8-82)

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

1.0 API well number. (If not assigned, leave blank. 14 digits.)	- - -				
2.0 Type of determination being sought (Use the codes found on the front of this form.)	<div style="display: flex; justify-content: space-around;"> Section of NGPA Category Code </div>				
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	_____ feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> Name Street City </div> <div style="width: 15%;"> Seller Code State Zip Code </div> </div>				
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Field Name County				
(b) For OCS wells	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> Area Name <div style="display: flex; justify-content: center; align-items: center;"> Date of Lease <div style="display: flex; gap: 5px;"> <div style="border-bottom: 1px solid black; width: 20px; height: 10px;"></div> <div style="border-bottom: 1px solid black; width: 20px; height: 10px;"></div> <div style="border-bottom: 1px solid black; width: 20px; height: 10px;"></div> <div style="border-bottom: 1px solid black; width: 20px; height: 10px;"></div> <div style="border-bottom: 1px solid black; width: 20px; height: 10px;"></div> </div> <div style="display: flex; gap: 5px;"> Mo. Day Yr. </div> </div> </div> <div style="width: 35%;"> Block Number OCS Lease Number </div> </div>				
(c) Name and identification number of this well: (35 letters and digits maximum.)	_____				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	_____				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> Name </div> <div style="width: 15%;"> Buyer Code </div> </div>				
(b) Date of the contract:	<div style="display: flex; justify-content: center; align-items: center;"> <div style="display: flex; gap: 5px;"> <div style="border-bottom: 1px solid black; width: 20px; height: 10px;"></div> <div style="border-bottom: 1px solid black; width: 20px; height: 10px;"></div> <div style="border-bottom: 1px solid black; width: 20px; height: 10px;"></div> <div style="border-bottom: 1px solid black; width: 20px; height: 10px;"></div> <div style="border-bottom: 1px solid black; width: 20px; height: 10px;"></div> </div> <div style="display: flex; gap: 5px;"> Mo. Day Yr. </div> </div>				
(c) Estimated total annual production from the well:	_____ Million Cubic Feet				
		(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	_____	_____	_____	_____
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	_____	_____	_____	_____
9.0 Person responsible for this application:	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> Name Signature Date Application is Completed </div> <div style="width: 35%;"> Title Phone Number </div> </div>				

Agency Use Only

Date Received by Juris. Agency

Date Received by FERC

FERC-121 (8-82)

Only projected figures for volumes and costs have been used. They are considered more generally useful and accurate than the reports of actual production for the following reasons:

- Companies file actual reports largely as a convenience to themselves. The data are not generally subjected to the same scrutiny as projections. Moreover, pipeline companies have considerable latitude as to which time they use in reporting actual figures.
- The costs reported as actual costs are costs derived from previous projections.
- As a general rule, neither projected nor actual volumes are audited. In the absence of such an audit, it is thought that actual volumes may be as subject to error as the projections.

The PGA filings contain a rough indication of the error due to using projections in the form of the surcharge adjustment. The surcharge adjustment is used to recover purchase costs beyond those expected or to repay costs below those expected. The surcharge adjustment cannot be applied directly to PGA filings because:

- It contains only a summary figure for all differences from projected levels. This includes costs of pipeline purchases and imports.
- No volumes are directly reported. A cost per thousand cubic feet figure is reported but is based on projected future purchases only.
- It covers time periods different from previous projections. Normally, the surcharge adjustment covers a period from 9 to 3 months prior to the beginning of a new projection period.

The PGA filings remain the only source of information for analyzing gas categories, however, and the data problems do not appear to be crippling for purposes of drawing general conclusions.

Interpretation of Data. The projected purchase cost for each contract volume represents the pipeline company's estimates of the purchase costs it will incur during the coverage period of the filing. These costs include:

- The average price to be paid to the producer
- Gathering charges
- Transportation charges
- Taxes.

Royalty payments and payments for gas not received under take-or-pay clauses are among the costs not included.

Projected volumes reported in the PGA filings are generally based on actual volumes for a similar preceding period (though they are typically adjusted to fit current market conditions). A number of pro-

jected gas purchases reported in the PGA filings have not been considered because they would have resulted in significant double counting. They are:

- Purchases from other pipelines
- Imports
- Exchange gas.

In addition, cost-of-service gas (a company's own production from specific leaseholds of pre-NGPA gas) is not considered because it is not covered by the NGPA and because most companies do not include it in their PGA filings.

The table included in this publication is therefore designed to cover a specific part of the overall national gas market: wellhead purchases that are both subject to the NGPA and dedicated to the interstate market.

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 Commission (ERA) and it now resides with the Office of Fuels Programs in the Office of Fossil Energy. In 1989, 205 companies met the reporting criteria, only 76 reported import or export 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 im-

port 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.

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 389 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 natural gas marketers, including interstate pipelines, intrastate pipelines, and local distribution companies. 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 B8. Form FPC-14

FEDERAL ENERGY REGULATORY COMMISSION
Washington, D.C. 20426ANNUAL REPORT FOR
IMPORTERS AND EXPORTERS OF NATURAL GAS
GENERAL INSTRUCTIONSForm Approved
OMB Number 1802-0027
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, _____
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SCHEDULE I — GASEOUS PHASE NATURAL GAS

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

Report for (Check one) ☐ Import ☐ Export	Foreign Seller or Foreign Buyer
---	---------------------------------

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

Line No	Month (a)	QUANTITY RECEIVED OR SHIPPED AT THE ENTRY OR EXIT POINT				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) × 1000)]) _____	ANNUAL WEIGHTED AVERAGE PRICE IN CENTS PER MMBtu (Line 13, Column (f) ÷ Column (e) × 100) _____
--	--

FPC-14 (8-82)

MONTHLY REPORT OF NATURAL GAS PURCHASES AND DELIVERIES TO CONSUMERS

This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to report may result in criminal fines, civil penalties, and other sanctions as provided by law. See section VI of the instructions for the confidentiality statement. Public reporting burden for this collection of information is estimated to average 4 hours per response, including time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden or any other aspect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Office of Statistical Standards E1-73, 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

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

SECTION I - Natural Gas Purchases and Deliveries to Consumers**SECTION II - Footnotes****SECTION III - CONTACT PERSON AND CERTIFICATION**

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

Appendix C

Statistical Considerations

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 1,730 companies. These companies were respondents to the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for reporting year 1989 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 1989. 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 392 respondent companies. After adjustment for previously unrecorded mergers and acquisitions occurring since 1989 and reported as a result of the initial mail-out, the sample contains a national total of 389 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 gas sales/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 gas sales/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 gas sales/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 cumulative measure of size greater than $R + I$. $R + I$ was increased again by I to determine the third company to be selected. This procedure was repeated until the entire sample was drawn.

Subgroups. In eight States, the noncertainty stratum was divided into subgroups to ensure that gas in each consumer sector could be estimated. The systematic sample with probability proportional to size design described above was applied independently in each subgroup. The methods for determining the subgroup sample size and calculating the subgroup interval for sample selection were the same as the methods described above for the noncertainty stratum, except that 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:

Illinois and West Virginia: companies handling any industrial gas and all other companies.

California, Kansas, and Louisiana: companies handling only industrial gas and all other companies.

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

Arkansas: companies handling 1 billion cubic feet or more of gas and companies handling less than 1 billion cubic feet of gas.

New York: companies handling 8 million cubic feet or more of gas and companies handling less than 8 million 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 1989 submissions of Form EIA-176:

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

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

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.

$$V_j = v_j \cdot E_{vj} \quad (4)$$

where:

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

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

Estimates of Revenues. State revenues are estimated from monthly data reported by the sample companies in the same way as the volumes are estimated. Ratio estimators are calculated for each consumer sector based on annual *sales* revenue in each State where companies are sampled. The estimated revenues are subsequently used to calculate average prices.

The formula for calculating the ratio estimator for residential gas sales revenues in consumer sector j is:

$$E_{rj} = \frac{Z_j}{Z'_{ij}}$$

where:

Z_j = the sum within State of annual gas sales revenues in consumer sector j.

Z'_{ij} = the sum within State of annual gas sales revenues for those companies in the sample in consumer sector j.

The ratio estimator is applied as follows:

$$R_j = z_j \cdot E_{rj}$$

where:

R_j = the monthly estimated revenue for gas sales in consumer sector j.

z_j = the sum within State of reported monthly gas sales revenues 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 average price of natural gas is calculated as follows:

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

where:

P_j = the average price of gas sales within a State in consumer sector j.

V_j = the estimate of gas sales within a 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:

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

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, July 1991**

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet			
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial	Total
Alabama	260	141	952	997	0.67	0.38	0.95	0.73
Alaska	0	0	0	0	.00	.00	.00	.00
Arizona	5	56	4	57	.04	.03	.00	.10
Arkansas	23	23	724	724	.17	.07	.07	.25
California	513	528	1,416	1,596	.06	.05	.13	.17
Colorado	19	45	997	999	.13	.06	.46	.85
Connecticut	0	0	0	0	.00	.00	.00	.00
Delaware	0	0	0	0	.00	.00	.00	.00
District of Columbia	0	0	0	0	.00	.00	.00	.00
Florida	38	56	1,052	1,054	.33	.10	.30	.52
Georgia	92	63	3,871	3,872	.24	.07	.30	.47
Hawaii	0	0	0	0	.00	.00	.00	.00
Idaho	0	0	0	0	.00	.00	.00	.00
Illinois	36	62	24	76	.09	.08	.13	.09
Indiana	48	58	1,202	1,204	1.89	.56	.70	1.10
Iowa	18	11	64	67	.11	.04	.03	.06
Kansas	3	39	3,367	3,367	.01	.00	.89	.77
Kentucky	0	0	0	0	.00	.00	.00	.00
Louisiana	714	29	6,432	6,472	.25	.23	.08	.19
Maine	0	0	0	0	.00	.00	.00	.00
Maryland	1	28	61	67	.03	.04	.44	.24
Massachusetts	25	688	4,798	4,847	.39	.26	.26	.31
Michigan	229	376	3,962	3,986	.26	.11	.43	.28
Minnesota	249	114	441	519	.42	.16	.01	.71
Mississippi	98	125	1,835	1,841	.80	.29	.09	.95
Missouri	282	44	14	285	.11	.28	.07	.60
Montana	3	1	0	3	.02	.01	.00	.03
Nebraska	23	688	99	696	.12	.01	.29	.48
Nevada	0	0	0	0	.00	.00	.00	.00
New Hampshire	0	0	0	0	.00	.00	.00	.00
New Jersey	0	0	0	0	.00	.00	.00	.00
New Mexico	89	42	0	99	.28	.58	.00	.48
New York	388	599	1,481	1,644	.17	.10	.42	.28
North Carolina	19	12	220	221	.04	.06	.13	.24
North Dakota	0	0	0	0	.00	.00	.00	.00
Ohio	361	636	1,290	1,483	.05	.40	.23	.48
Oklahoma	293	208	317	479	1.23	.06	.13	.24
Oregon	0	0	0	0	.00	.00	.00	.00
Pennsylvania	55	171	617	643	.08	.22	.82	.83
Rhode Island	0	0	0	0	.00	.00	.00	.00
South Carolina	17	55	361	366	.47	.26	.78	.74
South Dakota	0	0	0	0	.00	.00	.00	.00
Tennessee	121	128	424	459	.42	.22	.28	.31
Texas	106	7,183	14,784	16,437	.00	.74	.71	1.11
Utah	0	0	0	0	.00	.00	.00	.00
Vermont	0	0	0	0	.00	.00	.00	.00
Virginia	55	108	1,085	1,092	.06	.13	1.01	1.04
Washington	0	0	0	0	.00	.00	.00	.00
West Virginia	18	1,149	557	1,276	.15	11.09	.51	5.38
Wisconsin	263	852	529	1,037	.73	.64	1.16	.91
Wyoming	3	108	212	238	.44	.54	.65	1.33
U.S. Totals	1,239	7,481	18,495	19,989	.07	.18	.27	.13

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

The standard error of the natural gas volume estimate is the square root of the variance of the estimate. The formula for calculating the variance of the volume estimate is:

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

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 1989*, DOE/EIA-0131(89), September 1990.
- *Statistics of Interstate Natural Gas Pipeline Companies 1989*, DOE/EIA-0145(88), February 1991. Published annually.
- *Gas Supplies of Interstate Natural Gas Pipeline Companies 1989*, DOE/EIA-0167(89), December 1990. Published annually.

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

- *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves - 1990 Annual Report*, DOE/EIA-0216(90), September 1991.
- *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 1990*, DOE/EIA-0173(90), March 1991. Published annually.
- *Annual Energy Outlook 1991*, DOE/EIA-0383(91), March 1991. Published annually.
- *Annual Energy Review 1990*, DOE/EIA-0384(90), May 1991. Published annually.
- *Short-Term Energy Outlook*, DOE/EIA-0202. Published quarterly. Provides forecasts for next six quarters for natural gas and other energy sources.
- *Annual Outlook for Oil and Gas: 1991*, DOE/EIA-0517(91), June 1991.
- *International Oil and Gas Exploration and Development Activities*, DOE/EIA-0523. Published Quarterly. Provides a compilation of reported oil and gas reserve additions in foreign countries.

Selected One-Time Natural Gas and Related Reports

- *Drilling and Production Under Title I of the Natural Gas Policy Act, 1978-1986*, DOE/EIA-0448(86), January 1989.
- *An Examination of Domestic Natural Gas Resource Estimates*, SR/RNGD/89-01, February 1989.
- *Growth in Unbundled Natural Gas Transportation Services: 1982-1987*, DOE/EIA-0525, May 1989.
- *Assessment of Pipeline Capacity to Transport Domestic Natural Gas Supplies to the Northeast*, SR/RNGD/89-02, August 1989.
- *Natural Gas Production Responses to a Changing Market Environment, 1978-1988*, DOE/EIA-0532, June 1990.
- *Costs and Indices for Domestic Oil and Gas Field Equipment and Production Operations - 1987 through 1989*, DOE/EIA-0185(89), July 1990.
- *U.S. Oil and Gas Reserves by Year of Field Discovery*, DOE/EIA-0534, August 1990.
- *Natural Gas Productive Capacity for the Lower 48 States 1980 through 1991*, DOE/EIA-0542, January 1991.

Selected and Recurring Natural Gas and Related Data Reference Reports

- *Directory of Energy Data Collection Forms*, DOE/EIA-0249(90), January 1991.
- *Oil and Gas Field Code Master List, 1990*, EIA-0370(90), January 1991.

NGM Feature Articles

January 1989

Main Line Natural Gas Sales by Interstate Pipeline Companies, 1987

(Describes and analyzes direct sales to end users by interstate pipeline companies and SIC codes.)

Summary of An Examination of Domestic Gas Resource Estimates

(Provides an overview of the various natural gas resource estimates currently in use.)

May 1989

The Outlook for Natural Gas Supply in the 1990's

(Discusses recent conditions in the oil and gas producing industry.)

June 1989

Domestic Natural Gas Reserves and Production Dedicated to Interstate Pipeline Companies, 1988

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

August 1989

U.S. Natural Gas Imports and Exports - 1988

(Contains final 1988 data on all U.S. imports and exports of natural gas.)

September 1989

Natural Gas Production in the Post-NGPA Decade

(Presents data on the production of natural gas by categories defined under the Natural Gas Policy Act of 1978 (NGPA).)

November 1989

Natural Gas Wellhead Decontrol Act of 1989

(Describes the categories of natural gas most affected by the decontrol provisions and provides market data for these categories and the overall markets during the 1980's.)

March 1990

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

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

April 1990

The Outlook for Natural Gas

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

May 1990

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

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

June 1990

U.S. Natural Gas Imports and Exports - 1989

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

July 1990

Resurgence in Natural Gas Wellhead Productivity

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

October 1990

Update on U.S. Coalbed Methane Production

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

January 1991

Take-or-Pay Settlements

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

February 1991

Recent Trends and Regional Variability in Underground Storage Activities

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

March 1991

Natural Gas Transportation Services: An Update

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

April 1991

An Overview of Recent Developments in the Underground Storage Market

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

May 1991

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

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

June 1991

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

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

July 1991

The Outlook for Natural Gas 1991

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

August 1991

U.S. Natural Gas Imports and Exports - 1990

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

September 1991

Background on the Natural Gas Industry

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

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

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

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: Annual: Monthly:	Interstate Oil Compact Commission (IOCC) Form EIA-627, "Annual Quantity and Value of Natural Gas Report" Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Donna Dunston (202) 586-6135
Extraction Loss	1	Monthly: Annual:	EIA computations Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"	Margo Natof (202) 586-6303
Supplemental Gaseous Fuels	2	Monthly: Annual:	EIA computations Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"	Margo Natof (202) 586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas"	Margo Natof (202) 586-6303 Fay Dillard (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 Pipeline Company Monthly Statement"	James Keeling (202) 586-6107
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-627, "Annual Quantity and Value of Natural Gas Report"	Sheila Darnell (202) 586-6165
Electric Utility	4	Monthly:	Form FPC-423, "Cost and Quality of Fuels for Electric Power Plants"	Margo Natof (202) 586-6303
NGPA Category - Prices And Volumes	5	Periodic:	Purchased Gas Adjustment Filings	Norman Crabtree (202) 586-6180
Summary of Natural Gas Imports and Exports	6	Quarterly:	Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas" and "Quarterly Sales and Price Report"	Fay Dillard (202) 586-6181
Producer Related Activities: Natural Gas Production	7	Monthly:	Interstate Oil Compact Commission (IOCC)	Donna Dunston (202) 586-6135
Well Determination Filings	8, 9, 10,	Monthly:	Form FERC-121, "Application for Determination of Maximum Lawful Price Under the Natural Gas Policy Act"	Eva Fleming (202) 586-6113
NGPA Ceiling Prices	11	Monthly:	<i>Federal Register</i>	Eva Fleming (202) 586-6113
Interstate Pipeline Activities:	12, 13, 14, 15, 16	Monthly:	Form FERC-11, "Natural Gas Pipeline Company Monthly Statement"	James Keeling (202) 586-6107

Underground Storage:	17, 18, 19, 20, 21	Monthly:	Forms FERC-8 and EIA-191, "Underground Gas Storage Report"	Ellis Maupin (202) 586-6178
Distribution and Consumption:				
Deliveries to:				
Residential,	22	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Commercial,	23			
Industrial,	24			
Electric Utility,	25		Form FERC-423, "Cost and Quality of Fuels for Electric Power Plants"	Margo Natof (202) 586-6303
All Consumers	26			
Average Price to:				
City Gate	27	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Residential,	28			
Commercial,	29			
Industrial,	30		Form FERC-423, "Cost and Quality of Fuels for Electric Power Plants"	Margo Natof (202) 586-6303
Electric Utility,	31			
and All Consumers	32			
Onsystem Sales	33	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Heating Degree Days	34	Seasonal:	National Oceanic and Atmospheric Administration	Rosemary Jameson (202) 586-6229
Highlights and Industry Overview				James Todaro (202) 586-6305
Recent Developments				James Todaro (202) 586-6305

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 (including 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.

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