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Natural Gas Monthly

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Preface

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

General questions and comments regarding the *NGM* may be referred to Kendrick E. Brown, Jr. (202) 586-6077, 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.

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 Acronyms Used in the Natural Gas Monthly

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

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Overview

Supply and Disposition

The natural gas market remained relatively stable during September, a month dominated by the conflict in the Mideast and the attendant surge in oil prices. As in August, when the conflict began, September activity in the natural gas industry largely followed seasonal patterns.

The Mideast conflict has resulted in little fuel switching. Most fuel switching had already occurred because the price of natural gas was lower even before the dramatic rise in oil prices. As reported in last month's *NGM*, for the year to date, warmer than normal weather during the first quarter and a sluggish economy kept demand and prices lower than might otherwise have been expected. The effects of these lower prices on production and demand are discussed below.

EIA estimates that marketed production (gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed) totaled 1,403 billion cubic feet, down 4.5 percent from August's 1,469 billion cubic feet (a typical decline for this time of year). A year-to-date comparison shows that marketed production in 1990 is so far running just 1 percent higher than in 1989, 2 percent higher than in 1988.

The total gas supply available for disposition in September was estimated at 1,504 billion cubic feet (almost 4 percent less than in August 1990 but virtually the same as in September 1989). Shown in Table 2, this total includes 36 billion cubic feet withdrawn from storage, 11 billion cubic feet of supplemental fuel supplies, and 120 billion cubic feet of imported gas. Imports, predominantly from Canada, accounted for slightly more than 7 percent for both the month and the year as a whole. Imports have been increasing since 1987 because they have been priced below domestic onsystem sales by 8 to 13 cents per thousand cubic feet.

On the disposition side, total consumption decreased to 1,235 billion cubic feet, 284 billion cubic feet were injected into underground storage reservoirs, and 8 billion cubic feet were exported. This leaves 23 billion cubic feet unaccounted for.

Consumption

Natural gas consumption increased from July to August, by 2.2 percent. Total consumption is up slightly for the year compared with the same period of 1989. Energy demand closely tracks economic growth and as would be expected with the nation's economy slowing, demand for all fossil fuels is down during this period.

Only in the industrial sector has consumption shown any significant growth: totaling 4,676 billion cubic feet for the year to date. Consumption is 4.6 percent higher than for the same period of 1989; from July to August, the increase amounted to almost 4 percent. This rate of growth, while stronger than in the other consuming sectors, is somewhat weaker than the 7-percent annual growth witnessed from 1986 to 1989. The slowdown in the economy is taking its toll on this sector as well as the others. At the same time, the relatively low price of natural gas probably kept demand from declining further than would be expected in a low economy.

The electric utility sector typically consumes more natural gas during the summer months, when space-heating demands are weakest. Following this seasonal pattern, consumption increased by over 6 percent from July to August (compared with 10 percent from June to July). But consumption is still off by almost 2 percent for the year, as compared with the same period in 1989. Total electric generation is up less than 2 percent for the year, with only nuclear power and hydroelectric generation showing any substantial growth.

In both the residential and commercial sectors, demand for natural gas is predominantly driven by space heating requirements. With the warmer than normal first quarter, year-to-date residential consumption is almost 6 percent lower than during the same period of 1989 (3,034 billion cubic feet compared with 3,214 billion cubic feet); and commercial consumption is virtually the same (1,821 billion cubic feet compared with 1,831 billion cubic feet).

Following typical seasonal patterns, consumption of natural gas has declined markedly since the winter months in both these sectors: August demand dropped to 124 billion cubic feet in the residential sector, down from 129 billion cubic feet in July; and to 119 billion

cubic feet in the commercial sector, down from 128 billion cubic feet in July.

Prices

As noted above, Iraq's invasion of Kuwait and the dramatic increase in oil prices has not caused any substantial increase in natural gas prices. Natural gas prices were already relatively low in 1990, a function of the spot market and gas to gas competition. Obviously, these low prices have kept natural gas competitive with other fuels throughout the year. It will be some time, if at all, before the surge in oil prices has any effect on natural gas prices.

As shown in Table 4,

- According to EIA's estimates, in July (the last month for which data are available) wellhead prices averaged \$1.50 per thousand cubic feet, down from \$1.53 per thousand cubic feet in both May and June; wellhead prices averaged \$1.65 per thousand cubic feet in July 1989, about 9 percent more.
- In August 1990, major interstate pipeline companies paid an average of \$1.86 per thousand cubic feet for gas purchased from domestic producers, down from \$2.00 per thousand cubic feet in July. In August these pipeline companies paid, on average, \$1.93 for imported gas, almost all of it Canadian. Although higher than domestic prices (on-system sales) in August, imports have been 8 cents cheaper than domestic for the year as a whole.
- Distributors paid an average \$2.91 per thousand cubic feet at the city gate in August, approximately 4 percent less than the \$3.03 paid in July 1990 or the \$3.04 paid in August 1989.
- Industrial consumers paid an average of \$2.52 per thousand cubic feet. This is a 2 percent increase from July's \$2.47, which was less than in any

month in recent history. For the year to date, industrial consumers are paying 2 percent less than they did for year-to-date 1989 but exactly the same as for year-to-date 1988.

- Commercial consumers paid \$4.55 per thousand cubic feet in August, 2 percent more than the \$4.46 they paid in July, 2 percent less than the \$4.65 paid in August 1989. For the year as a whole, prices are running 2 percent higher than year-to-date 1989.
- Residential consumers paid \$7.04 per thousand cubic feet, less than 1 percent more than the \$6.99 paid in July, and almost .5 percent less than the \$7.07 paid in August 1989. Residential prices are traditionally higher in the summer months because demand is lower while fixed costs remain. For the year to date, residential consumer prices are running almost 2 percent above year-to-date 1989 prices, and almost 7 percent above year-to-date 1988 prices.
- Electric utilities paid an average of \$2.22 per thousand cubic feet in July. This is an increase of 3 percent from the \$2.16 utilities paid in June, a decline of 7.5 percent from July 1989. So far in 1990, electric utility prices are running 2 percent below 1989, 3 percent above 1988 prices.

Underground Storage

A majority of the available natural gas (gas not needed to meet consumer demand) was placed in underground storage facilities to prepare for winter heating requirements. As shown in Table 17, in September, 284 billion cubic feet were injected into storage and 37 billion cubic feet withdrawn. This brings the total gas in storage to 7,119 billion cubic feet, a new record. The warm weather allows storage facilities to place so much gas in storage. This amount is almost 2 percent greater than the storage level of 6,990 reported in September 1989.

Table 1. Summary of Natural Gas Production
(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
1984 Total	20,192	1,630	224	108	18,230	838	17,392
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							
January	1,925	216	40	12	1,657	76	1,581
February	1,752	196	36	12	1,508	69	1,439
March	1,826	20	40	12	1,573	72	1,501
April	1,684	19	39	12	1,440	66	1,374
May	1,724	204	33	12	1,475	68	1,407
June	1,655	202	39	12	1,402	64	1,338
July	1,674	204	37	13	1,420	65	1,355
August	1,691	203	36	12	1,440	66	1,374
September	1,609	200	38	12	1,359	62	1,297
October	1,747	217	42	12	1,476	67	1,409
November	1,772	217	38	12	1,505	69	1,436
December	1,864	225	42	11	1,586	73	1,513
Total	20,922	2,478	460	143	17,841	817	17,026
1989							
January	1,859	217	34	11	1,597	70	1,527
February	1,709	191	29	11	1,476	64	1,412
March	1,804	195	31	13	1,564	68	1,496
April	1,734	201	29	12	1,491	65	1,426
May	1,766	212	31	12	1,511	66	1,445
June	1,677	190	28	12	1,449	63	1,386
July	1,710	197	30	12	1,474	64	1,410
August	1,701	205	28	12	1,460	63	1,397
September	1,637	205	28	12	1,393	60	1,333
October	1,718	209	29	12	1,469	64	1,405
November	1,782	213	31	12	1,525	66	1,459
December	1,901	217	33	12	1,635	72	1,563
Total	20,998	2,451	362	141	18,044	785	17,260
1990							
January	1,928	205	32	15	1,676	78	1,598
February	1,708	180	27	9	1,492	70	1,422
March	1,815	207	30	10	1,568	73	1,495
April	1,737	201	29	10	1,497	70	1,427
May	1,772	203	35	11	1,523	71	1,452
June	1,698	191	29	10	1,468	69	1,399
July	R 1,701	R 194	R 30	R 10	R 1,467	69	R 1,398
August	E 1,708	E 195	E 33	E 11	E 1,469	E 69	E 1,400
September	E 1,627	E 185	E 29	E 10	E 1,403	E 66	E 1,337
1990 YTD	15,694	1,761	274	96	13,563	635	12,928
1989 YTD	15,597	1,813	268	107	13,416	583	12,832
1988 YTD	15,540	1,819	338	109	13,275	608	12,666

^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 and Sources. See the last page of this section.

Table 2. Supply and Disposition of Dry Natural Gas
(Billion Cubic Feet)

Year and Month	Supply				Total Supply/ Disposition ^b	Additions to Storage ^a	Disposition		
	Total Dry Gas Production	Withdrawals from Storage ^a	Supplemental Gaseous Fuels	Imports			Exports	Consumption ^c	Unaccounted For ^d
1984 Total	17,392	2,098	110	843	20,443	2,295	55	17,951	143
1985 Total	16,382	2,397	126	950	19,855	2,163	55	17,281	356
1986 Total	15,991	1,837	113	750	18,692	1,984	61	16,221	427
1987 Total	16,536	1,905	101	993	19,534	1,911	54	17,211	359
1988									
January	1,581	586	12	139	2,318	47	5	2,187	79
February	1,439	462	11	117	2,029	50	5	2,038	-64
March	1,501	259	10	113	1,883	99	6	1,867	-89
April	1,374	92	8	96	1,570	165	6	1,464	-65
May	1,407	46	7	94	1,554	288	4	1,302	-40
June	1,338	36	7	93	1,474	280	8	1,170	16
July	1,355	42	7	100	1,504	300	5	1,177	22
August	1,374	52	7	94	1,527	288	6	1,222	11
September	1,297	46	6	95	1,444	314	7	1,099	24
October	1,409	92	8	106	1,615	202	6	1,232	175
November	1,436	159	9	121	1,725	117	7	1,453	148
December	1,513	397	11	127	2,048	62	9	1,820	157
Total	17,026	2,270	101	1,294	20,691	2,211	74	18,030	376
1989									
January	1,527	426	11	119	2,083	53	7	2,023	0
February	1,412	614	10	110	2,146	32	7	2,008	99
March	1,496	369	10	113	1,988	106	11	1,945	-74
April	1,426	138	8	110	1,682	184	11	1,580	-93
May	1,445	44	8	108	1,605	326	8	1,348	-77
June	1,386	20	7	104	1,517	381	9	1,200	-73
July	1,410	29	8	101	1,548	377	9	1,220	-58
August	1,397	29	8	108	1,542	362	9	1,216	-45
September	1,333	39	7	117	1,496	325	9	1,181	-19
October	1,405	96	9	123	1,633	225	10	1,337	61
November	1,459	227	9	123	1,818	105	8	1,567	138
December	1,563	821	12	145	2,541	52	8	2,156	325
Total	17,260	2,852	107	1,382	21,599	2,529	107	18,780	182
1990									
January	1,598	339	16	149	2,102	91	8	R 2,107	R -104
February	1,422	324	14	118	1,878	70	8	R 1,805	R -5
March	1,495	256	14	115	1,880	124	10	R 1,776	R -30
April	1,427	140	13	122	1,702	183	8	R 1,584	R -73
May	1,452	45	11	108	1,616	289	8	R 1,397	R -78
June	1,399	42	11	114	1,566	327	9	R 1,298	R -68
July	R 1,398	27	12	R 119	R 1,556	325	8	R 1,292	R -69
August	R 1,400	37	11	R 118	R 1,566	321	8	R 1,321	R -84
September	R 1,337	36	11	120	1,504	284	8	1,235	-23
1990 YTD	12,928	1,246	113	1,083	15,370	2,014	75	13,815	-534
1989 YTD	12,832	1,708	77	990	15,607	2,146	80	13,721	-340
1988 YTD	12,666	1,621	75	941	15,303	1,831	52	13,526	-106

^a Monthly and annual data for 1984 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 "Total" data for 1984 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.

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

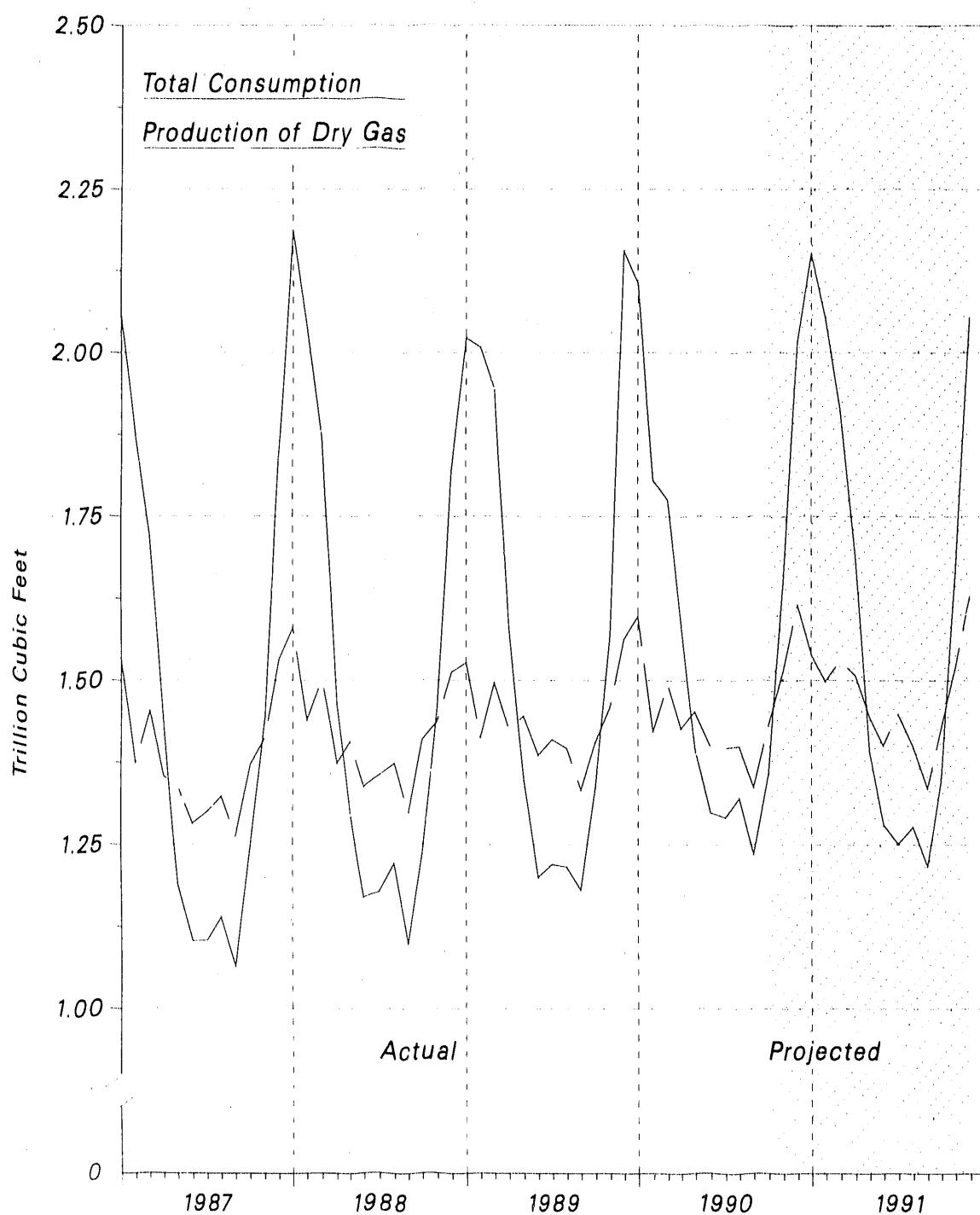
^d Represents quantities lost and imbalances in data due to differences among data sources. See Appendix A, Explanatory Note 11 for full discussion.

R Estimated Data

R Revised Data

Notes and Sources See the last page of this section.

Figure 1. Production and Consumption of Natural Gas in the United States



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

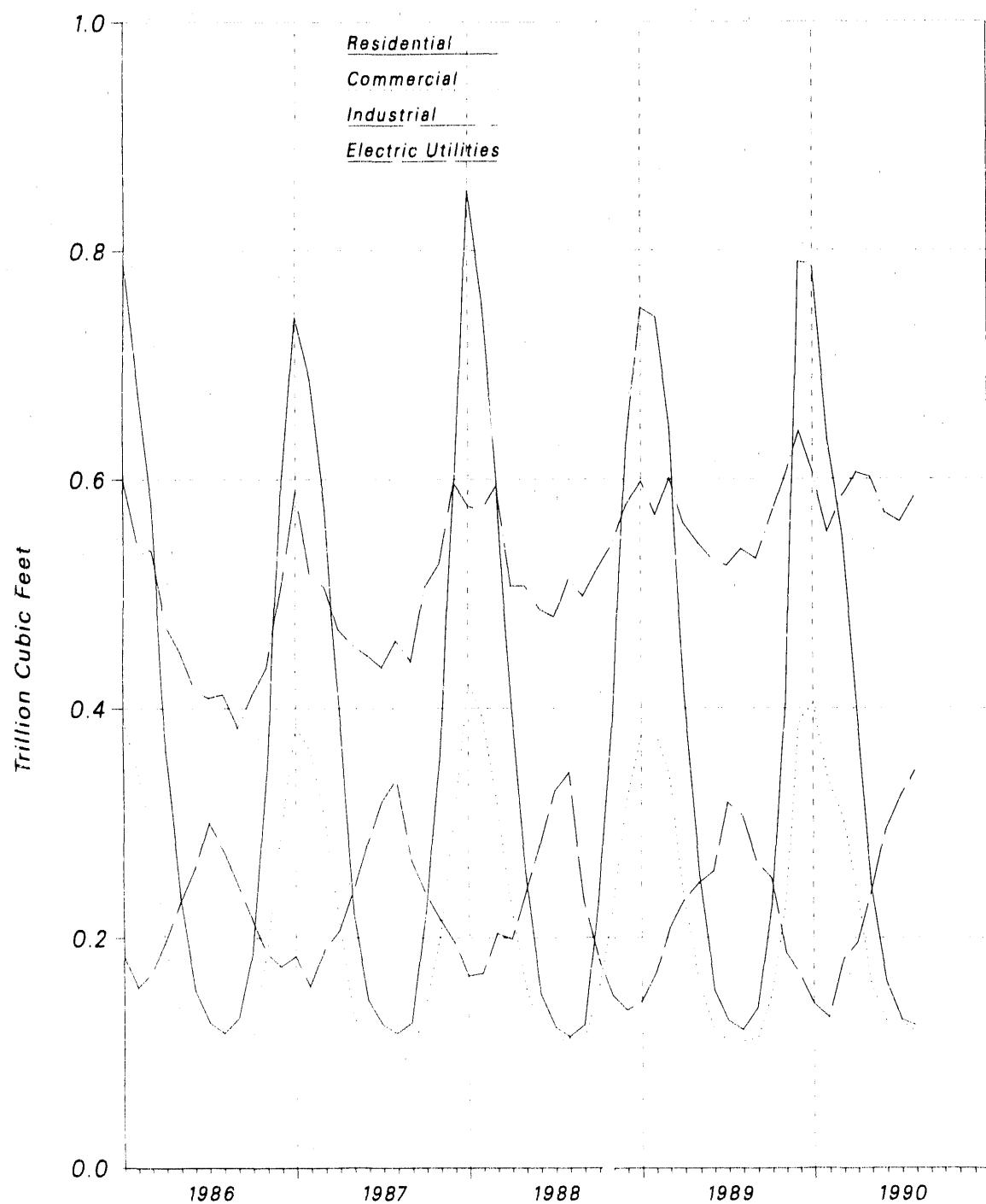
Table 3. Natural Gas Consumption
(Billion Cubic Feet)

Year and Month	Lease and Plant Fuel	Pipeline Fuel	Delivered to Consumers				Total	Total Consumption
			Residential	Commercial	Industrial	Electric Utilities		
1984 Total	1,077	529	4,555	2,524	6,154	3,111	16,345	17,951
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								
January	102	63	852	424	578	168	2,022	2,187
February	93	55	755	392	574	170	1,890	2,038
March	97	53	597	320	596	204	1,717	1,867
April	88	46	400	223	507	199	1,330	1,464
May	91	49	258	158	507	240	1,162	1,302
June	86	47	152	118	487	280	1,037	1,170
July	87	49	123	109	480	328	1,041	1,177
August	88	49	114	113	514	344	1,085	1,222
September	83	47	125	113	499	233	969	1,099
October	91	49	232	156	522	182	1,092	1,232
November	92	51	391	225	543	150	1,310	1,453
December	98	56	631	320	577	137	1,666	1,820
Total	1,096	614	4,630	2,670	6,383	2,636	16,320	18,030
1989								
January	95	57	751	376	598	146	1,871	2,023
February	88	57	742	380	570	171	1,863	2,008
March	93	54	645	342	602	209	1,798	1,945
April	88	49	414	233	563	233	1,443	1,580
May	89	51	256	159	544	249	1,208	1,348
June	96	50	155	121	529	258	1,064	1,200
July	88	50	129	110	525	318	1,082	1,220
August	87	50	121	110	539	308	1,079	1,216
September	82	48	139	113	532	266	1,051	1,181
October	87	49	228	152	568	252	1,201	1,337
November	90	50	405	231	603	187	1,427	1,567
December	97	65	790	391	643	170	1,994	2,156
Total	1,070	630	4,777	2,719	6,816	2,768	17,080	18,780
1990								
January	111	53	R 789	R 404	R 606	144	R 1,943	R 2,107
February	99	48	R 634	R 338	R 554	131	R 1,658	R 1,805
March	104	48	R 550	R 305	R 586	182	R 1,624	R 1,776
April	99	44	R 398	R 239	R 606	197	R 1,441	R 1,584
May	101	47	R 247	R 160	R 602	239	R 1,249	R 1,397
June	97	44	R 162	R 128	R 571	295	R 1,157	R 1,298
July	R 97	49	R 129	R 128	R 564	325	R 1,146	R 1,292
August	97	49	124	119	586	346	1,175	1,321
1990 YTD	805	382	3,034	1,821	4,676	1,860	11,392	12,586
1989 YTD	714	418	3,214	1,831	4,470	1,892	11,407	12,540
1988 YTD	732	411	3,251	1,857	4,242	1,933	11,284	12,427

R = Revised Data.

Notes and Sources: See the last page of this section.

Figure 2. Natural Gas Deliveries to Consumers



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

Table 4. Selected National Average Natural Gas Prices
(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	Overall Average ^e
1984 Annual Average	2.66	4.08	2.91	3.95	6.12	5.55	4.22	3.70	4.85
1985 Annual Average	2.51	3.19	2.85	3.75	6.12	5.50	3.95	3.55	4.72
1986 Annual Average	1.94	2.53	2.39	3.22	5.83	5.08	3.23	2.43	4.13
1987 Annual Average	1.67	2.17	2.10	2.87	5.54	4.77	2.94	2.32	4.05
1988									
January	1.96	1.64	2.04	2.91	5.08	4.60	3.18	2.60	4.41
February	1.84	2.03	2.22	2.95	5.09	4.69	3.22	2.56	4.39
March	1.70	2.09	2.03	2.87	5.18	4.69	3.13	2.32	4.25
April	1.59	2.01	2.12	2.79	5.35	4.71	2.97	2.20	4.10
May	1.52	2.02	2.17	2.75	5.87	4.61	2.76	2.10	3.84
June	1.53	1.98	2.05	2.87	6.50	4.53	2.67	2.16	3.54
July	1.56	2.34	1.94	2.87	6.74	4.48	2.54	2.23	3.36
August	1.62	1.88	2.09	2.92	6.92	4.37	2.66	2.36	3.39
September	1.53	2.00	2.13	3.05	6.79	4.41	2.70	2.36	3.61
October	1.68	1.94	2.31	2.92	5.95	4.53	2.80	2.40	3.95
November	1.76	1.98	2.19	2.98	5.56	4.69	3.00	2.58	4.31
December	1.89	2.14	2.25	3.08	5.39	4.78	3.31	2.57	4.56
Annual Average	1.69	2.00	2.13	2.92	5.47	4.63	2.95	2.33	4.09
1989									
January	1.99	1.77	2.35	3.17	5.41	4.81	3.39	2.64	4.67
February	1.81	2.21	2.16	3.10	5.38	4.80	3.33	2.44	4.60
March	1.69	1.99	2.17	2.89	5.45	4.79	3.12	2.33	4.46
April	1.56	2.01	2.22	2.83	5.54	4.77	2.91	2.31	4.18
May	1.61	2.02	2.11	2.94	5.93	4.64	2.80	2.39	3.94
June	1.65	2.04	2.04	2.98	6.58	4.57	2.69	2.40	3.72
July	1.65	1.88	1.99	3.08	6.92	4.65	2.70	2.40	3.59
August	1.61	2.24	2.05	3.04	7.07	4.61	2.71	2.38	3.57
September	1.55	2.02	2.07	2.99	6.80	4.67	2.67	2.33	3.67
October	1.58	2.17	2.04	2.84	6.06	4.61	2.75	2.39	3.86
November	1.66	2.13	2.23	2.98	5.56	4.71	2.98	2.56	4.30
December	1.92	2.08	2.39	3.10	5.30	4.81	3.32	2.85	4.61
Annual Average	1.69	2.04	2.17	3.01	5.64	4.74	2.87	2.43	4.22
1990									
January	2.23	2.04	2.42	3.25	5.42	4.99	3.52	3.01	4.77
February	1.87	2.25	2.18	3.10	5.63	5.05	3.40	2.76	4.82
March	1.58	1.99	1.94	2.95	5.58	R 4.93	3.08	2.37	4.50
April	1.56	2.00	2.17	2.84	5.62	R 4.82	2.84	2.29	4.23
May	1.53	2.08	1.98	2.81	5.97	R 4.62	2.67	2.19	3.84
June	1.53	1.91	2.18	3.00	6.55	4.59	2.55	2.16	3.53
July	1.50	1.88	2.00	3.03	6.99	4.46	2.47	2.22	3.39
August	NA	1.93	1.86	2.91	7.04	4.55	2.52	NA	NA
1990 YTD	NA	2.01	2.09	3.01	5.75	4.85	2.93	2.35	4.29
1989 YTD	NA	2.02	2.14	3.01	5.65	4.75	2.99	2.40	4.28
1988 YTD	NA	2.00	2.08	2.88	5.39	4.62	2.93	2.28	4.10

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

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

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

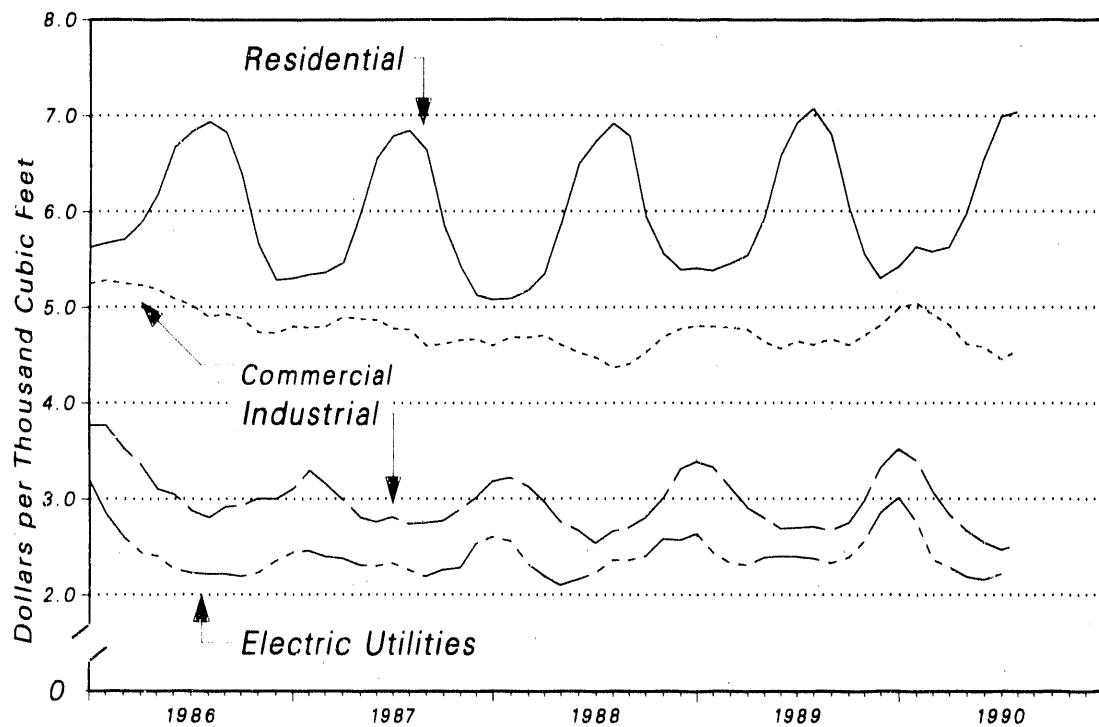
^d Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

R Revised Data

NA Not Available.

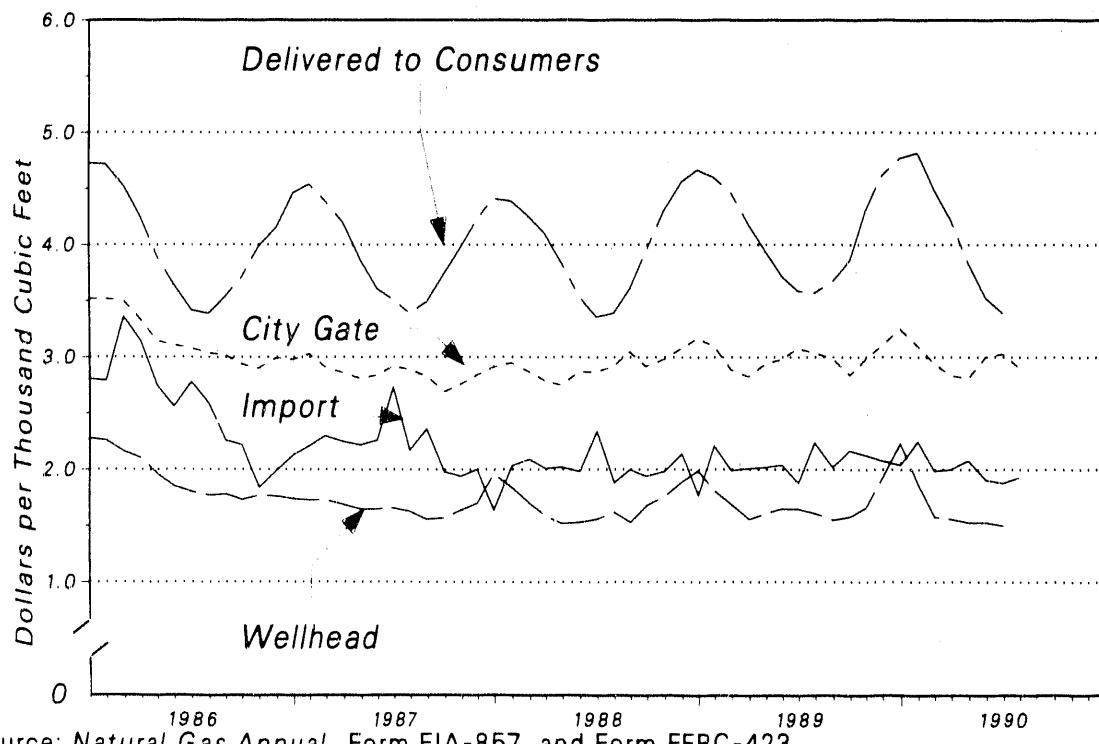
Notes and Sources: See the last page of this section.

Figure 3. Average Price of Natural Gas Delivered to Consumers



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

Figure 4. Average Price of Natural Gas



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

Table 5. Projected Volumes and Prices of Wellhead Purchases by NGPA Category
 (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
1984 Total	3,961	1.46	53	2.60	283	1.15	4,301	1.45
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								
January	160	1.36	2	2.37	22	1.22	185	1.35
February	160	1.36	2	2.37	22	1.22	184	1.36
March	155	1.41	2	2.33	21	1.23	179	1.40
April	128	1.50	2	2.28	14	1.30	145	1.49
May	129	1.46	2	2.28	14	1.32	146	1.46
June	123	1.46	2	2.22	14	1.42	139	1.47
July	110	1.40	2	2.33	12	1.42	125	1.42
August	104	1.40	2	2.35	12	1.43	118	1.42
September	108	1.44	2	2.26	12	1.37	122	1.45
October	134	1.69	2	2.16	13	1.55	149	1.68
November	133	1.70	3	2.22	14	1.51	150	1.69
December	135	1.82	2	2.12	14	1.56	152	1.80
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	39	1.65	1	.86	5	1.53	45	1.62
October	37	1.89	1	1.09	6	1.75	44	1.86

See footnotes at end of table.

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

Year and Month	Section 102 ^e		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
1984 Total	2,587	3.84	913	3.26	189	4.17	191	2.58	3,879	3.65
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										
January	120	2.39	35	2.46	14	3.35	13	2.29	182	2.47
February	119	2.40	35	2.45	14	3.36	12	2.31	180	2.47
March	119	2.40	35	2.46	14	3.34	12	2.34	179	2.48
April	114	2.32	36	2.39	11	3.35	12	2.17	174	2.39
May	114	2.31	37	2.41	12	3.38	12	2.19	176	2.40
June	102	2.30	37	2.40	15	2.64	12	2.11	165	2.34
July	95	2.29	31	2.31	14	2.61	11	2.10	152	2.31
August	84	2.34	30	2.30	14	2.51	11	2.02	139	2.33
September	84	2.39	31	2.39	12	2.80	12	2.02	139	2.40
October	97	2.46	23	2.47	13	2.88	12	2.10	155	2.47
November	122	2.38	33	2.49	10	3.20	11	2.16	176	2.43
December	124	2.44	33	2.45	10	3.15	12	2.13	179	2.47
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	43	2.16	20	1.91	8	2.84	13	1.83	85	2.11
October	53	2.29	19	2.20	7	2.97	14	1.98	94	2.28

See footnotes at end of table

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

Year and Month	Section 107 ^j		Miscellaneous ^k		Total Gas ^l		Number of Companies ⁿ
	Volume	Price ^m	Volume	Price ^m	Volume	Price ^m	
1984 Total	856	5.35	10	2.77	9,061	2.78	46
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							
January	38	2.75	•	--	405	1.99	40
February	37	2.76	•	--	401	1.99	40
March	37	2.86	•	--	395	2.03	40
April	37	2.63	•	--	356	2.05	40
May	39	2.66	•	--	360	2.04	41
June	40	2.48	•	--	345	2.00	43
July	38	2.55	•	--	315	1.99	46
August	35	2.49	•	--	292	1.98	45
September	36	2.49	•	--	297	2.02	43
October	38	2.55	•	--	342	2.14	42
November	30	2.61	•	--	356	2.14	41
December	31	2.57	•	--	362	2.19	41
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	38
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	19	2.01	•	--	149	1.95	42
October	21	2.36	•	--	159	2.17	43

^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 Additional interstate pipeline companies have been included with the 20 major interstate pipelines starting with PGA filings effective July 1, 1984.

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

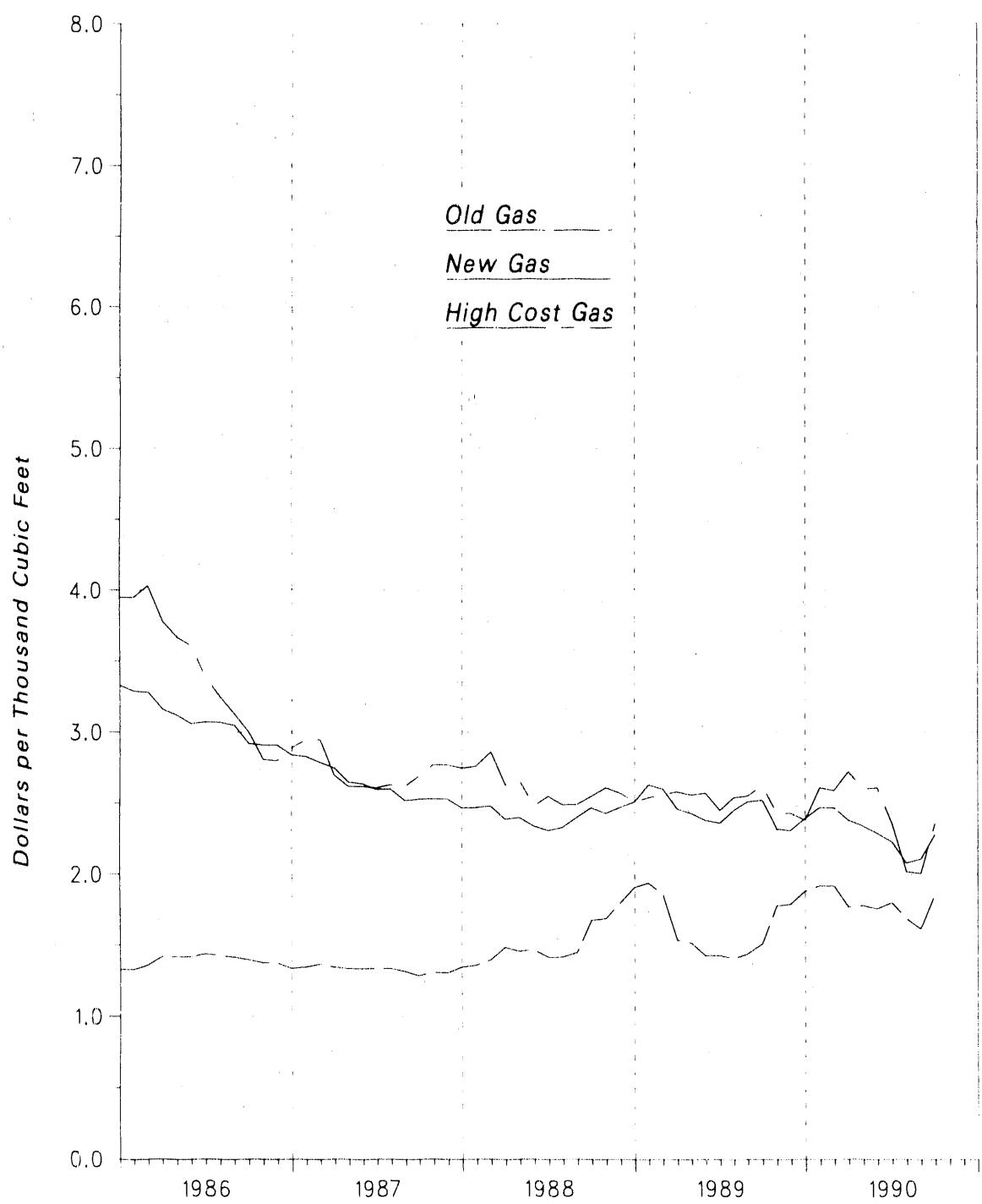
^R Revised Data.

-- Not Applicable.

• Volume is less than 500 million cubic feet.

Notes and Sources See the last page of this section.

Figure 5. Purchased Gas Wellhead Prices



Source: Purchased Gas Adjustment filings for interstate pipeline companies.

Table 6. Summary of Natural Gas Imports and Exports
 (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						
January	109,709	2.05	28,156	1.63	4,765	3.11
February	85,449	1.99	30,774	1.63	4,650	3.14
March	78,548	1.97	33,268	1.49	6,218	2.84
April	66,170	1.96	28,552	1.29	6,354	2.75
May	68,642	1.89	24,728	1.21	3,777	2.30
June	67,847	1.86	25,318	1.20	8,469	2.53
July	76,951	1.84	22,893	1.24	4,892	2.94
August	77,121	1.91	18,313	1.27	6,008	2.70
September	75,942	1.92	19,919	1.35	7,187	2.59
October	77,011	1.86	29,873	1.43	5,497	2.78
November	82,395	1.88	38,290	1.40	6,771	2.61
December	86,735	2.09	41,208	1.57	9,050	2.70
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	2.70
October	83,324	2.22	37,676	1.24	10,453	2.62
November	80,124	2.08	41,876	1.48	7,909	2.71
December	98,801	2.06	47,199	1.70	8,471	2.74
Total	933,317	2.11	448,203	1.41	106,871	2.51
1990						
January	113,386	2.05	35,675	2.01	8,207	2.92
February	86,212	2.28	30,872	1.76	7,933	2.71
March	88,372	2.24	27,854	1.68	9,846	2.49
April	76,113	2.22	36,281	1.50	8,124	2.48
May	69,224	2.19	33,692	1.48	7,833	2.51
June	68,667	2.21	31,504	1.41	8,617	2.58

NA = Not Available.

Notes and Sources: See the last page of this section.

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

Year and Month	Alabama	Alaska	Arkansas	California	Colorado	Florida	Kansas
1984 Total	101,821	289,129	135,161	476,333	173,257	12,585	465,979
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							
January	11,392	32,910	19,390	34,672	19,577	652	72,587
February	10,929	29,964	15,308	30,938	18,155	597	50,858
March	11,255	36,393	14,968	35,114	18,025	643	55,095
April	10,471	29,666	12,473	32,892	15,972	614	46,812
May	9,236	28,656	12,473	34,562	16,515	607	43,514
June	10,523	29,466	11,793	33,765	12,769	790	45,892
July	10,953	29,263	11,566	33,339	13,028	677	36,847
August	10,753	29,530	13,040	35,317	14,001	644	33,789
September	10,368	30,159	12,246	34,343	14,099	602	28,996
October	11,100	34,017	12,587	33,193	15,057	538	46,615
November	10,663	34,088	13,607	30,674	15,588	528	51,178
December	11,880	34,525	17,122	30,855	18,759	593	64,090
Total	129,524	378,638	166,573	399,663	191,544	7,484	576,274
1989							
January	12,166	35,680	£ 20,100	30,377	22,256	639	57,650
February	10,588	33,405	£ 15,300	28,008	19,088	550	60,563
March	11,626	35,160	£ 15,900	30,661	17,871	577	55,638
April	11,028	33,821	£ 12,800	30,396	15,564	597	47,092
May	11,340	24,870	£ 12,500	31,068	16,010	660	50,559
June	10,914	32,380	£ 11,900	30,379	15,551	571	42,180
July	11,212	32,531	£ 11,500	32,013	15,750	638	47,756
August	10,599	30,266	£ 13,200	31,718	15,420	645	43,662
September	10,119	30,257	£ 12,000	29,806	16,468	665	36,719
October	9,709	34,951	£ 12,400	30,677	19,373	708	41,051
November	9,137	34,619	£ 13,900	28,134	21,568	611	46,650
December	9,973	35,789	£ 16,800	29,623	21,818	673	57,710
Total	128,411	393,729	£ 168,300	362,860	216,737	7,534	587,230
1990							
January	10,650	35,514	£ 20,800	28,313	21,484	699	57,345
February	10,097	34,268	£ 15,600	25,362	17,390	649	48,176
March	11,223	34,845	£ 16,400	30,292	17,567	553	41,472
April	11,165	32,533	£ 13,700	29,010	18,070	629	40,422
May	11,736	29,666	£ 13,400	£ 29,800	18,034	660	45,477
June	10,988	30,091	£ 12,700	£ 29,100	16,976	557	£ 40,801
July	11,670	31,215	£ 12,400	£ 29,600	17,071	537	£ 40,191
1990 YTD	77,529	228,132	105,000	201,477	126,592	4,284	313,884
1989 YTD	78,874	227,847	100,000	212,902	122,090	4,232	361,438
1988 YTD	74,759	216,318	97,971	235,282	114,041	4,580	351,605

See footnotes at end of table

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

Year and Month	Louisiana	Michigan	Mississippi	Montana	New Mexico	North Dakota	Oklahoma
1984 Total	5,825,055	144,537	157,911	51,474	957,366	70,496	1,985,869
1985 Total	5,013,702	131,855	144,170	52,494	905,272	72,633	1,036,341
1986 Total	4,895,394	127,287	140,833	46,592	702,614	55,098	1,917,493
1987 Total	5,122,609	146,996	139,727	46,456	823,773	62,258	2,004,797
1988							
January	469,503	12,922	10,167	5,159	85,471	4,992	185,737
February	445,057	11,869	10,842	4,746	72,987	4,671	172,119
March	454,289	12,317	12,267	4,131	74,098	4,980	176,902
April	417,561	11,160	11,025	3,246	61,034	4,773	166,081
May	437,323	12,993	13,653	3,215	66,043	5,131	179,902
June	404,480	12,943	7,565	3,276	61,239	5,008	167,219
July	416,209	12,550	7,964	2,997	57,384	5,046	172,969
August	423,979	12,225	10,363	3,713	62,752	4,973	173,393
September	375,326	11,944	10,001	3,898	61,629	4,140	174,621
October	425,295	11,490	10,149	5,463	59,083	4,520	176,689
November	443,353	12,170	10,027	5,918	60,000	4,862	177,191
December	467,897	11,561	10,032	5,893	70,097	4,651	183,810
Total	5,180,267	146,145	124,053	51,654	791,819	57,747	2,106,632
1989							
January	456,935	12,129	9,885	5,285	76,385	4,534	171,407
February	412,186	12,715	8,724	4,740	71,990	3,874	170,435
March	447,078	12,637	8,780	4,789	72,556	4,309	178,866
April	425,344	12,663	9,364	4,372	67,421	4,252	182,017
May	431,478	12,812	9,204	3,797	65,556	4,417	190,207
June	408,474	14,724	8,932	2,541	60,526	4,136	183,465
July	403,879	12,896	8,693	3,165	67,229	4,468	185,458
August	403,686	12,807	8,987	3,369	70,746	3,771	180,743
September	381,306	13,696	6,984	4,257	67,447	3,935	174,864
October	402,685	13,326	7,194	4,858	70,808	4,566	185,799
November	427,222	13,955	7,632	5,036	80,013	4,418	190,120
December	477,852	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	^b 484,445	14,451	8,360	5,291	86,860	4,681	E 186,000
February	^b 424,394	12,737	7,677	4,711	79,375	4,221	E 168,533
March	^b 450,096	13,702	8,359	4,229	81,171	4,700	E 175,918
April	^b 426,415	14,745	7,886	4,546	75,759	4,562	E 179,017
May	^b 435,138	12,988	7,885	3,397	76,645	4,413	E 184,349
June	^b 412,576	14,773	8,090	3,438	74,052	4,254	E 181,950
July	^b 413,139	13,049	8,354	3,704	75,771	4,217	E 182,829
1990 YTD	3,046,203	96,445	56,611	29,316	549,633	31,048	1,258,596
1989 YTD	2,985,374	90,576	63,582	28,689	481,663	29,990	1,261,856
1988 YTD	3,044,422	86,754	73,483	26,770	478,256	34,601	1,220,929

See footnotes at end of table

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

Year and Month	Texas	Utah	West Virginia	Wyoming	Other ^a States	U.S. Total
1984 Total	6,185,021	74,698	143,730	516,683	462,533	18,229,638
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						
January	575,425	10,268	17,005	48,751	40,008	1,656,588
February	529,339	9,369	16,449	34,516	39,504	1,508,217
March	548,365	9,602	15,227	50,106	39,605	1,573,382
April	507,830	8,280	14,671	48,261	37,589	1,440,411
May	514,825	9,197	14,226	35,440	37,589	1,475,100
June	493,090	7,475	14,116	43,307	36,884	1,401,600
July	513,708	7,287	14,004	37,103	37,388	1,420,282
August	521,584	8,275	13,670	29,618	38,698	1,440,317
September	484,953	8,562	13,560	42,143	37,186	1,358,776
October	526,788	8,032	11,892	43,810	39,705	1,476,023
November	525,427	10,031	15,005	45,919	38,295	1,504,524
December	544,695	4,993	15,116	50,085	39,605	1,586,259
Total	6,286,029	101,372	174,942	509,058	462,056	17,841,474
1989						
January	545,995	11,563	£ 20,100	63,140	41,235	1,597,461
February	498,336	10,631	£ 19,700	54,794	40,722	1,476,349
March	541,753	10,346	£ 18,200	56,294	40,824	1,563,865
April	518,207	9,313	£ 16,700	51,686	38,773	1,491,410
May	525,157	10,134	£ 15,900	56,519	38,978	1,511,166
June	508,113	7,824	£ 16,600	52,138	37,850	1,449,198
July	520,968	10,092	£ 15,300	51,594	38,363	1,473,505
August	516,596	9,588	£ 14,900	50,036	39,696	1,460,435
September	491,862	8,462	£ 14,500	51,023	38,158	1,392,528
October	512,554	9,473	£ 12,700	55,332	40,722	1,468,886
November	517,874	10,130	£ 16,400	58,195	39,286	1,524,909
December	544,010	12,533	£ 17,290	64,948	40,620	1,634,787
Total	6,241,425	120,089	£ 198,200	665,699	475,227	18,044,499
1990						
January	570,208	14,705	£ 23,000	61,622	£ 41,100	1,675,528
February	£ 506,557	12,782	£ 22,600	56,233	£ 40,600	1,491,962
March	541,062	12,822	£ 20,100	62,938	£ 40,700	1,568,149
April	513,659	9,629	£ 19,700	56,500	£ 38,700	1,496,647
May	527,747	11,992	£ 17,600	54,733	£ 37,400	1,523,060
June	513,071	12,060	£ 18,100	48,413	£ 36,400	1,468,390
July	502,333	11,396	£ 17,100	55,332	£ 36,900	1,466,808
1990 YTD	3,674,637	85,386	138,200	395,771	271,800	10,690,544
1989 YTD	3,658,529	69,903	122,500	386,165	276,745	10,562,954
1988 YTD	3,682,582	61,478	105,698	297,484	268,567	10,475,580

^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 January - July 1990 were estimated on the basis of production reported in January - December 1989, seasonally adjusted.

^c Total marketed production for Texas in February 1990 represents reported data for State onshore and estimated data for Outer Continental Shelf (OCS) producing areas.

[£] Estimated Data.

Notes and Sources: See the last page of this section.

Table 8. Well Determination Filings
(Volume in Billion Cubic Feet)

Year and Month	Section 102 ^a			Section 103 ^b			Section 107 ^c		
	Total	With Volumes	Estimated Annual Volume ^d	Total	With Volumes	Estimated Annual Volume ^d	Total	With Volumes	Estimated Annual Volume ^d
1984 Total	10,167	8,071	2,432	16,048	12,751	1,217	9,656	7,846	757
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									
January	118	86	18	444	352	32	327	233	13
February	186	132	31	540	415	44	605	386	21
March	204	135	38	670	495	82	582	341	14
April	101	80	18	686	477	59	454	232	14
May	170	127	30	680	571	66	620	426	18
June	425	360	55	794	698	40	444	252	13
July	121	7	22	269	198	21	478	304	19
August	190	115	217	585	458	51	575	377	25
September	111	83	23	435	349	54	535	246	17
October	193	104	27	356	288	25	465	288	10
November	115	90	26	345	271	30	269	144	7
December	183	105	21	555	432	60	389	265	16
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	56	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
1990 YTD	638	490	136	2,311	1,504	182	4,151	2,849	224
1989 YTD	1,029	784	292	3,308	2,453	289	2,720	2,029	139
1988 YTD	1,626	1,209	452	5,103	4,013	449	4,620	2,797	153

See footnotes at end of table.

Table 8. Well Determination Filings (Continued)
(Volume in Billion Cubic Feet)

Year and Month	Section 108 ^d			Total		
	Number of Filings ^e	With Volumes	Estimated Annual Volume ^f	Number of Filings ^e	With Volumes	Estimated Annual Volume ^f
Total				Total		
1984 Total	12,653	7,633	124	48,524	36,301	4,531
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						
January	686	542	5	1,575	1,213	68
February	420	242	3	1,751	1,175	99
March	554	475	4	2,010	1,446	137
April	372	233	3	1,613	1,022	94
May	572	448	8	2,042	1,572	123
June	179	102	3	1,842	1,412	111
July	139	80	1	1,007	653	63
August	259	154	2	1,609	1,124	294
September	346	50	1	1,427	728	95
October	162	89	2	1,176	769	64
November	160	106	1	919	611	64
December	171	81	1	1,298	883	98
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
1990 YTD	1,144	870	16	8,244	5,722	557
1989 YTD	1,764	1,239	12	8,821	6,505	731
1988 YTD	3,527	2,326	30	14,876	10,345	1,083

^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 and Sources: See the last page of this section.

Table 9. Well Determination Filings by State, September 1990
 (Volume in Million Cubic Feet)

State	Section 102 ^a			Section 103 ^b			Section 107 ^c		
	Number of Filings ^d		Estimated Annual Volume ^e	Number of Filings ^d		Estimated Annual Volume ^e	Number of Filings ^d		Estimated Annual Volume ^e
	Total	With Volumes		Total	With Volumes		Total	With Volumes	
Alabama	3	3	610	0	0	0	124	123	7,141
Arkansas	24	21	10,062	37	36	5,638	1	0	0
California	2	0	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	5	4	300
Illinois	0	0	0	0	0	0	6	6	287
Kansas	4	1	180	11	10	1,126	2	2	170
Kentucky	0	0	0	26	10	203	41	38	1,422
Louisiana	13	12	4,058	13	11	1,961	0	0	0
Michigan	0	0	0	0	0	0	93	67	1,743
Mississippi	0	0	0	5	5	794	5	3	6
Montana	0	0	0	0	0	0	0	0	0
New Mexico	0	0	0	3	3	1,000	40	24	9,911
New York	0	0	0	10	0	0	1	0	0
Ohio	0	0	0	4	3	291	31	21	451
Oklahoma	2	0	0	52	31	7,527	0	0	0
Pennsylvania	0	0	0	11	7	205	25	25	526
Texas	10	6	3,605	28	17	1,846	39	13	3,619
West Virginia	0	0	0	8	5	161	79	61	1,163
Wyoming	0	0	0	0	0	0	1	1	90
Total	58	43	18,515	208	138	20,752	493	388	26,829

See footnotes at end of table.

Table 9. Well Determination Filings by State, September 1990 (Continued)
 (Volume in Million Cubic Feet)

State	Section 108 ^d			Total		
	Number of Filings ^e		Estimated Annual Volume ^f	Number of Filings ^e		Estimated Annual Volume ^f
	Total	With Volumes		Total	With Volumes	
Alabama	0	0	0	127	126	7,751
Arkansas	0	0	0	62	57	15,700
California	0	0	0	2	0	0
Colorado	0	0	0	5	4	300
Illinois	0	0	0	6	6	287
Kansas	2	0	0	19	13	1,476
Kentucky	0	0	0	67	48	1,625
Louisiana	1	0	0	27	23	6,019
Michigan	0	0	0	9	67	1,743
Mississippi	0	0	0	10	8	800
Montana	3	0	0	3	0	0
New Mexico	0	0	0	43	27	10,911
New York	0	0	0	11	0	0
Ohio	1	1	10	36	25	752
Oklahoma	5	3	53	59	34	7,580
Pennsylvania	0	0	0	36	32	731
Texas	1	0	0	78	36	9,070
West Virginia	19	18	96	106	84	1,420
Wyoming	1	0	0	2	1	90
Total	33	22	159	792	591	66,255

^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 and Sources: See the last page of this section.

Table 10. Well Determination Filings by Category, September 1990
 (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)	6	4	1,631
New Onshore Well (1,000 ft. deeper)	0	0	0
New Onshore Reservoir	46	35	16,276
New Reservoir on Old OCS Lease	6	4	608
Unspecified	0	0	0
Total	58	43	18,515
Section 103^d			
Less than 5,000 Feet Deep	122	80	6,526
5,000 Feet and Deeper	77	58	14,227
Depth Not Reported	9	0	0
Total	208	138	20,752
Section 107^e			
Deep	9	6	78
Geopressurized Brine	0	0	0
Coal Seam Gas	175	157	17,735
Devonian Shale	229	182	4,488
Production Enhancement	2	1	90
New Tight Formation	78	42	4,435
Recompletion Tight Formation	0	0	0
Unspecified	0	0	0
Total	493	388	26,829
Section 108^f			
Stripper Well	26	21	123
Seasonally Affected	0	0	0
Enhanced Recovery	3	1	36
Temporary Pressure Buildup	4	0	0
Unspecified	0	0	0
Total	33	22	159
Total All Sections	792	591	66,255

^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.

Notes and Sources: See the last page of this section.

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

NGPA Category	Nov. 1990	Nov. 1989	Nov. 1988	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984
Section 102							
New Natural Gas, Certain OCS Gas ^b	5.868	5.490	5.058	4.715	4.403	4.116	3.821
Section 103 (b)(1)							
New Onshore Production Wells ^b	3.623	3.497	3.345	3.238	3.141	3.047	2.942
Section 103 (b)(2)							
New Onshore Production Wells ^b	--	--	3.345	.000	3.772	3.582	--
Section 105 ^c							
Intrastate Existing Contracts	5.567	5.248	4.879	4.593	4.330	4.084	--
Section 106 (b)(1)(B)							
Alternate Maximum Lawful Price for Certain Intrastate Rollover Gas ^d	2.073	2.001	1.913	1.853	1.796	1.744	1.681
Section 107							
Gas Produced from Tight Formations	7.246	6.994	6.690	6.476	6.282	6.094	5.884
Section 108							
Stripper Gas	6.284	5.879	5.416	5.049	4.716	4.405	4.092
Section 109							
Not Otherwise Covered	2.998	2.895	2.771	2.683	2.601	2.525	2.436
Section 104 and 106 (a)							
Post-1974 Gas: All Producers	2.998	2.895	2.771	2.683	2.601	2.525	2.436
1973-1974 Biennium Gas:							
Small Producer	2.529	2.444	2.339	2.266	2.199	2.135	2.063
Large Producer	1.940	1.872	1.790	1.733	1.680	1.629	1.572
Interstate Rollover Gas ^e :							
Small Producer	1.112	1.075	1.028	.996	.967	.937	.904
Large Producer	1.112	1.075	1.028	.996	.967	.937	.904
Replacement Contract Gas or Recompletion Gas							
Small Producer	1.425	1.375	1.315	1.271	1.233	1.199	1.157
Large Producer	1.088	1.051	1.007	.977	.948	.918	.885
Flowing Gas							
Small Producer	.718	.694	.664	.645	.625	.607	.586
Large Producer	.605	.584	.561	.545	.525	.512	.495
Certain Permian Basin Gas							
Small Producer	.847	.819	.784	.756	.735	.714	.690
Large Producer	.750	.723	.691	.671	.651	.633	.609
Certain Rocky Mountain Gas:							
Small Producer	.847	.819	.784	.756	.735	.714	.690
Large Producer	.750	.694	.664	.645	.625	.607	.586
Certain Appalachian Basin Gas							
North Subarea Contracts dated after Oct. 7, 1969	.684	.660	.630	.614	.594	.576	.555
Other Contracts	.634	.611	.585	.569	.549	.531	.513
Minimum Rate Gas: All Producers (dollars per Mcf)	.372	.359	.347	.335	.326	.314	.302

^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 natural gas 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 and Sources. See the last page of this section.

Table 12. Revenues, Expenses, and Income of Major Interstate Natural Gas Pipeline Companies (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				
1984 Total	12,596	53,629	42,250	1,693	630	50,467	3,168	5,279	3,227
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									
January	1,152	3,860	3,147	137	56	3,500	360	485	306
February	939	3,337	2,711	155	54	3,033	304	423	255
March	606	2,414	1,855	133	50	2,151	263	441	240
April	378	1,720	1,312	126	48	1,648	185	339	160
May	317	1,550	1,193	118	46	1,376	174	325	163
June	308	1,515	1,468	123	46	1,568	-53	93	20
July	315	1,483	1,124	126	43	1,215	268	-62	-159
August	347	1,681	1,324	131	45	1,680	4	226	73
September	321	1,595	1,628	129	47	1,531	64	-67	-253
October	435	1,949	1,591	141	51	1,775	172	158	-43
November	504	2,395	2,387	133	48	2,467	-83	50	-148
December	792	3,138	2,900	127	48	2,996	145	939	752
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	158	293	110
September	303	1,695	1,279	154	40	1,513	172	368	190
October	388	1,827	1,754	103	50	1,781	46	212	57
November	518	2,443	1,965	119	48	2,230	213	396	228
December	1,006	4,092	3,550	79	42	3,675	418	713	397
Total	5,652	26,703	21,764	1,493	596	24,266	2,419	4,420	2,154
1990									
January	710	3,106	2,495	130	59	2,783	323	492	326
February	584	2,501	1,977	121	57	2,240	262	401	243
March	440	2,200	1,638	96	56	1,899	301	456	355
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	349	1,492	1,173	123	53	1,359	133	215	62
August	247	1,487	1,093	39	53	1,182	304	269	122

^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.

Notes and Sources: See the last page of this section.

Table 13. Volumes and Prices of Natural Gas Sold by Major Interstate Natural Gas Pipeline Companies
 (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	
1984 Total	702,540	4.13	388,780	5.34	1,091,320	4.56	9,020,704	3.99	10,112,024	4.05	44
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											
January	31,555	2.94	81,597	4.61	113,152	4.14	899,736	2.99	1,012,888	3.11	46
February	20,698	2.96	68,547	4.76	89,245	4.34	729,882	3.11	819,127	3.25	46
March	23,154	2.83	50,926	4.88	74,080	4.24	469,116	3.27	543,196	3.40	46
April	24,440	2.67	17,334	5.41	41,774	3.81	304,224	3.57	345,998	3.60	46
May	25,651	2.36	19,724	4.95	45,375	3.49	238,526	3.85	283,901	3.79	46
June	28,916	2.52	17,336	5.94	46,252	3.80	224,768	3.85	271,020	3.85	46
July	28,489	2.45	18,472	5.82	46,961	3.78	222,087	3.73	269,048	3.74	46
August	30,159	2.51	19,904	5.66	50,063	3.76	252,794	3.95	302,857	3.92	46
September	26,001	2.40	15,716	6.19	43,965	3.80	230,466	4.01	274,431	3.98	46
October	17,982	2.63	28,309	5.42	46,467	4.30	329,151	3.75	375,442	3.84	46
November	18,263	2.85	38,695	5.10	54,539	4.44	364,104	4.22	421,062	4.25	46
December	19,513	2.82	64,123	4.42	83,636	4.05	601,339	3.34	684,975	3.42	46
Total	294,821	2.65	440,683	4.99	735,509	4.05	4,866,193	3.47	5,603,945	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	127,474	3.74	556,103	3.37	683,577	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	314,469	3.85	48
May	32,223	2.66	21,016	5.59	53,239	3.82	205,407	4.19	258,454	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	239,580	4.04	48
August	32,280	2.51	18,844	4.92	51,124	3.40	221,426	3.40	272,550	3.40	49
September	33,768	2.50	16,516	5.76	50,284	3.57	225,373	3.33	275,657	3.38	50
October	29,222	2.62	25,710	5.61	54,932	4.02	289,586	3.26	344,518	3.38	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	795,655	3.30	903,428	3.41	50
Total	392,843	2.58	465,592	5.02	858,427	3.91	4,222,855	3.49	5,080,928	3.56	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	53,729	2.58	54,123	5.00	107,852	3.80	428,176	2.59	536,028	2.83	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	261,293	2.76	316,976	2.98	51
May	24,714	2.40	21,818	5.63	46,532	3.91	205,735	3.01	252,267	3.17	51
June	24,376	2.30	15,459	4.98	39,835	3.34	183,781	2.86	223,616	2.95	51
July	26,454	2.41	18,235	5.04	44,689	3.48	282,032	1.97	326,711	2.18	51
August	9,908	2.69	17,356	5.25	27,264	4.32	189,863	2.85	217,097	3.04	51

^a All prices are weighted averages.

Notes and Sources: See the last page of this section.

Table 14. Volumes and Prices of Natural Gas Sold by Major Interstate Natural Gas Pipeline Companies, by Company, August 1990
 (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	4,224	5.68	4,224	5.68
ANR	0	0.00	0	0.00	0	0.00	4,947	2.73	4,947	2.73
Arkla, Inc.	3,051	2.69	7,428	6.82	10,479	5.62	273	1.48	10,752	5.52
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	96	2.48	0	0.00	96	2.48	3,019	2.45	3,115	2.45
Columbus Gas Transm	0	0.00	0	0.00	0	0.00	3,916	3.15	3,916	3.15
Columbia Gulf	0	0.00	3	3.00	3	3.00	0	0.00	3	3.00
Consolidated Gas	55	2.31	0	0.00	55	2.31	1,381	1.50	1,436	1.53
East Tennessee	1,602	2.53	1	4.00	1,603	2.53	3,239	2.41	4,842	2.45
El Paso	1,921	1.94	0	0.00	1,921	1.94	3,121	2.26	5,042	2.14
Equitrans	0	0.00	0	0.00	0	0.00	1,525	4.39	1,525	4.39
Florida Gas	2,232	3.13	0	0.00	2,232	3.13	4,688	2.46	6,920	2.67
Great Lakes Gas	0	0.00	0	0.00	0	0.00	1,199	3.84	1,199	3.84
High Island Offshore	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
K-N Energy, Inc.	39	3.08	3,703	3.92	3,742	3.91	755	3.30	4,497	3.81
Michigan Consolidated	265	4.73	5,340	4.53	5,605	4.54	1	2.00	5,606	4.54
Michigan Gas Storage	0	0.00	0	0.00	0	0.00	754	3.64	754	3.64
Midwestern	0	0.00	0	0.00	0	0.00	3,886	2.71	3,886	2.71
Mississippi River	149	3.46	0	0.00	149	3.46	1,713	6.29	1,862	6.06
Mountain Fuel Res	0	0.00	0	0.00	0	0.00	1,788	5.12	1,788	5.12
National Fuel	0	0.00	0	0.00	0	0.00	3,727	3.93	3,727	3.93
Natural Gas Pipeline	2	2.50	0	0.00	2	2.50	15,222	4.32	15,224	4.32
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	20,884	2.41	20,885	2.41
Northwest Alaskan	0	0.00	0	0.00	0	0.00	32,329	1.59	32,329	1.59
Northwest Pipeline	2	1.50	0	0.00	2	1.50	1,314	3.91	1,316	3.90
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	28,684	2.41	28,684	2.41
Pacific Interstate	0	0.00	0	0.00	0	0.00	6,881	53	6,881	53
Panhandle Eastern	32	2.00	805	1.95	837	1.95	5,703	2.42	6,540	2.36
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	21	3.76	0	0.06	21	3.76	4,284	2.47	4,305	2.48
Stingray Pipeline	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Tenneco, Inc.	112	2.69	0	0.00	112	2.69	3,771	3.40	3,883	3.38
Texas Eastern	0	0.00	0	0.00	0	0.00	15,677	4.35	15,677	4.35
Texas Gas Transm	0	0.00	0	0.00	0	0.00	7,033	3.97	7,033	3.97
Trailblazer Pipeline	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Transco Gas	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Transcontinental	18	2.50	0	0.00	18	2.50	21,052	2.58	21,070	2.58
Transwestern Pipeline	9	1.78	21	1.90	30	1.87	3,038	1.30	3,068	1.30
Trunkline Gas Co	1	2.00	35	2.14	36	2.14	8,041	3.75	8,077	3.74
Trunkline LNG	0	0.00	9	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	173	3.13	17	2.76	190	3.10	670	5.91	860	5.29
Valero Interstate Transm	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Viking Gas Company	0	0.00	0	0.00	0	0.00	240	1.73	240	1.73
Williams Natural	128	2.83	2	2.00	130	2.82	817	4.36	947	4.15
Williston Basin	0	0.00	0	0.00	0	0.00	57	3.89	57	3.89
Wyoming Interstate	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Total Average Price*	9,908	2.69	17,356	5.25	27,264	4.32	219,853	2.85	247,117	3.01
Sales to Other Major Companies	0	0.00	0	0.00	0	0.00	29,990	2.84	29,990	2.84
Sales Excluding Sales to Major Companies	0	0.00	0	0.00	0	0.00	189,863	2.85	217,127	3.04

* 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 and Sources— See the last page of this section.

Table 15. Natural and Other Gases Produced and Purchased by Major Interstate Natural Gas Pipeline Companies (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				
				From Producers	Intracompany Transfers	Imports	From Others	Total
1984 Total	7,652,245	365,796	2,121	9,190,510	NA	771,075	785,279	10,746,864
1985 Total	8,922,483	206,967	18,166	8,211,227	363,055	887,187	596,926	9,695,340
1986 Total	10,588,148	136,921	22,634	6,466,257	166,964	697,249	345,309	7,675,780
1987 Total	13,479,989	152,039	22,905	4,848,577	124,572	759,345	400,134	6,132,628
1988								
January	1,278,992	16,620	2,091	604,262	10,699	100,465	73,973	789,399
February	1,253,637	19,682	2,352	484,546	6,740	83,145	65,111	639,542
March	1,400,959	16,140	1,720	449,314	8,293	74,762	30,351	562,720
April	1,400,187	5,560	2,783	323,745	-283	75,279	8,917	407,658
May	1,291,115	7,126	2,288	324,784	4,750	67,846	13,869	411,249
June	1,230,313	9,760	2,071	308,585	7,046	68,915	8,376	392,922
July	1,222,281	11,270	993	314,460	4,886	79,748	13,860	412,954
August	1,245,290	10,678	1,635	307,875	5,057	86,241	21,116	420,289
September	1,178,750	9,996	1,854	285,403	4,054	80,533	17,737	389,579
October	1,378,349	10,478	1,814	325,497	4,363	71,791	11,894	411,011
November	1,406,500	11,449	1,789	341,016	6,544	89,842	34,112	471,514
December	1,664,134	10,862	2,570	446,633	4,730	83,816	75,667	610,846
Total	15,950,507	139,621	23,960	4,516,120	66,879	962,383	374,983	5,919,683
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	28,038	351,397
September	1,418,307	5,851	2,052	240,590	4,275	73,787	24,128	342,780
October	1,540,630	7,307	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	468,586
December	1,717,007	9,317	2,181	407,868	7,894	99,383	65,283	580,428
Total	18,696,398	102,770	24,609	3,532,588	74,058	903,488	427,143	4,937,276
1990								
January	1,843,090	9,249	2,064	467,025	7,656	102,640	73,255	670,576
February	1,653,276	7,301	1,948	356,199	5,752	77,018	27,028	466,297
March	1,777,624	8,806	2,295	297,415	6,243	79,441	23,978	407,107
April	1,660,666	6,844	2,095	221,74	4,621	81,523	24,224	332,122
May	1,666,594	6,608	2,141	248,608	5,278	79,549	19,329	352,764
June	1,500,305	6,476	1,971	237,229	4,376	78,303	20,390	340,298
July	1,530,684	7,192	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

^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.

NA Not Av. Able.

Notes and So. See the last page of this section.

Table 16. Natural and Other Gases Produced and Purchased by Major Interstate Natural Gas Pipeline Companies, August 1990
 (Million Cubic Feet)

Pipeline Company	Transported Gas	Natural Gas Production	Manufactured Gas, Liquified Natural Gas, Gasified Coal and Synthetic Gas Production	Purchased Natural Gas				
				From Producers	Intracompany Transfers	Imports	From Others	Total
Algonquin Gas	14,795	0	0	0	0	0	4,224	4,224
ANR	90,889	0	1,128	15,221	0	0	* 35	15,185
Arkla, Inc.	43,280	0	0	3,026	0	0	9,574	12,600
Bear Creek Storage	0	0	0	0	0	0	0	0
Canyon Creek Transm Co	2,157	0	0	0	0	0	0	0
Colorado Interstate	27,777	4,047	0	4,559	4,047	0	0	8,606
Columbia Gas Transm	48,983	0	0	23,221	0	0	4	23,225
Columbia Gulf	90,424	0	0	0	0	0	1,964	1,964
Consolidated Gas	22,037	803	0	7,569	84	0	1,238	8,891
East Tennessee	0	0	0	5,244	0	0	0	5,244
El Paso	105,565	19	0	9,022	0	0	* 1,919	7,103
Equitrans	3,393	0	0	3,456	0	0	0	3,456
Florida Gas	22,657	0	0	* 3,204	0	0	10,653	7,449
Great Lakes Gas	42,564	0	0	0	0	2,960	0	2,960
High Island Offshore	34,100	0	0	0	0	0	0	0
K. N Energy Inc	4,889	0	0	4,259	0	0	2,001	6,260
Michigan Consolidated	10,223	190	0	12,682	0	0	4,470	17,152
Michigan Gas Storage	22,619	0	0	0	0	0	646	646
Midwestern	13,736	0	0	3,680	0	0	9	3,689
Mississippi River	7,740	0	0	7,389	0	0	0	7,389
Mountain Fuel Rus	15,082	0	0	1,989	0	0	827	2,812
National Fuel	9,256	380	0	8,209	380	0	0	8,589
Natural Gas Pipeline	107,366	1,268	828	16,087	1,268	2,269	1,968	21,592
Northern Border	35,616	0	0	0	0	0	0	0
Northern Natural	103,935	0	0	19,870	0	14,774	0	34,644
Northwest Alaskan	0	0	0	0	0	32,329	0	32,329
Northwest Pipeline	57,699	* 38	0	1,244	* 38	1,007	0	2,213
Overthrust Pipeline	3,636	0	0	0	0	0	0	0
Pacific Gas Transm	8,813	0	0	175	0	29,415	0	29,590
Pacific Interstate	0	0	0	0	0	0	7,428	7,428
Panhandle Eastern	36,048	0	0	13,114	0	0	47	13,161
Sabine Pipeline Co	11,158	0	0	0	0	0	0	0
Sea Robin Pipeline	17,140	0	0	48	0	0	0	48
Southern Natural	26,979	0	0	8,409	0	0	0	8,409
Stingray Pipeline	25,942	0	0	0	0	0	0	0
Tenneco, Inc.	124,467	23	0	* 7,470	0	724	* 111	* 7,657
Texas Eastern	59,519	51	0	15,192	0	1,115	3,355	19,662
Texas Gas Transm	46,409	0	0	7,338	0	0	3,889	11,227
Trailblazer Pipeline	5,678	0	0	0	0	0	0	0
Transco Gas	0	0	0	0	0	0	0	0
Transcontinental	115,143	0	0	24,675	0	0	1,135	25,810
Transwestern Pipeline	26,645	0	0	2,767	0	0	0	2,767
Trunkline Gas Co	38,995	0	0	6,044	0	0	0	6,044
Trunkline LNG	0	0	0	0	0	0	0	0
U-T Offshore	20,957	0	0	0	0	0	0	0
United Gas Pipeline	54,642	0	0	6,131	0	0	278	6,409
Valero Interstate Transm	2,577	0	0	0	0	0	0	0
Viking Gas Company	9,695	0	0	0	0	2	0	2
Williams Natural	17,546	0	0	3,743	0	0	275	4,018
Williston Basin	3,304	0	0	1,816	434	0	0	2,249
Wyoming Interstate	6,563	0	0	0	0	0	0	0
Total	1,598,638	6,743	1,956	225,496	6,175	84,595	51,120	367,386
Purchases from Other Major Companies				0	0	0	27,911	27,911
Purchases, Excluding Purchases from Other Major Companies				225,496	6,175	84,595	23,209	339,475

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

Notes and Sources. See the last page of this section.

**Table 17. Underground Natural Gas Storage
(All Operators)
(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
1984 Total^a	3,830	2,876	6,706	281	10.8	2,252	2,064	188
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								
January	3,792	2,228	6,020	-52	-2.3	47	578	-531
February	3,791	1,827	5,618	-161	-8.1	50	456	-406
March	3,790	1,682	5,473	-197	-10.5	99	255	-156
April	3,790	1,769	5,559	-169	-8.7	162	92	71
May	3,790	2,027	5,818	-179	-8.1	282	46	236
June	3,792	2,293	6,085	-144	-5.9	274	36	238
July	3,793	2,567	6,359	-69	-2.6	294	42	252
August	3,791	2,835	6,626	-1	—	282	52	230
September	3,791	3,120	6,911	71	2.3	308	46	262
October	3,792	3,243	7,035	137	4.4	198	92	105
November	3,803	3,171	6,974	112	3.7	117	157	-40
December	3,800	2,850	6,650	94	3.4	62	391	-329
Total	--	--	--	--	--	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	66	248

^a Total as of December 31.

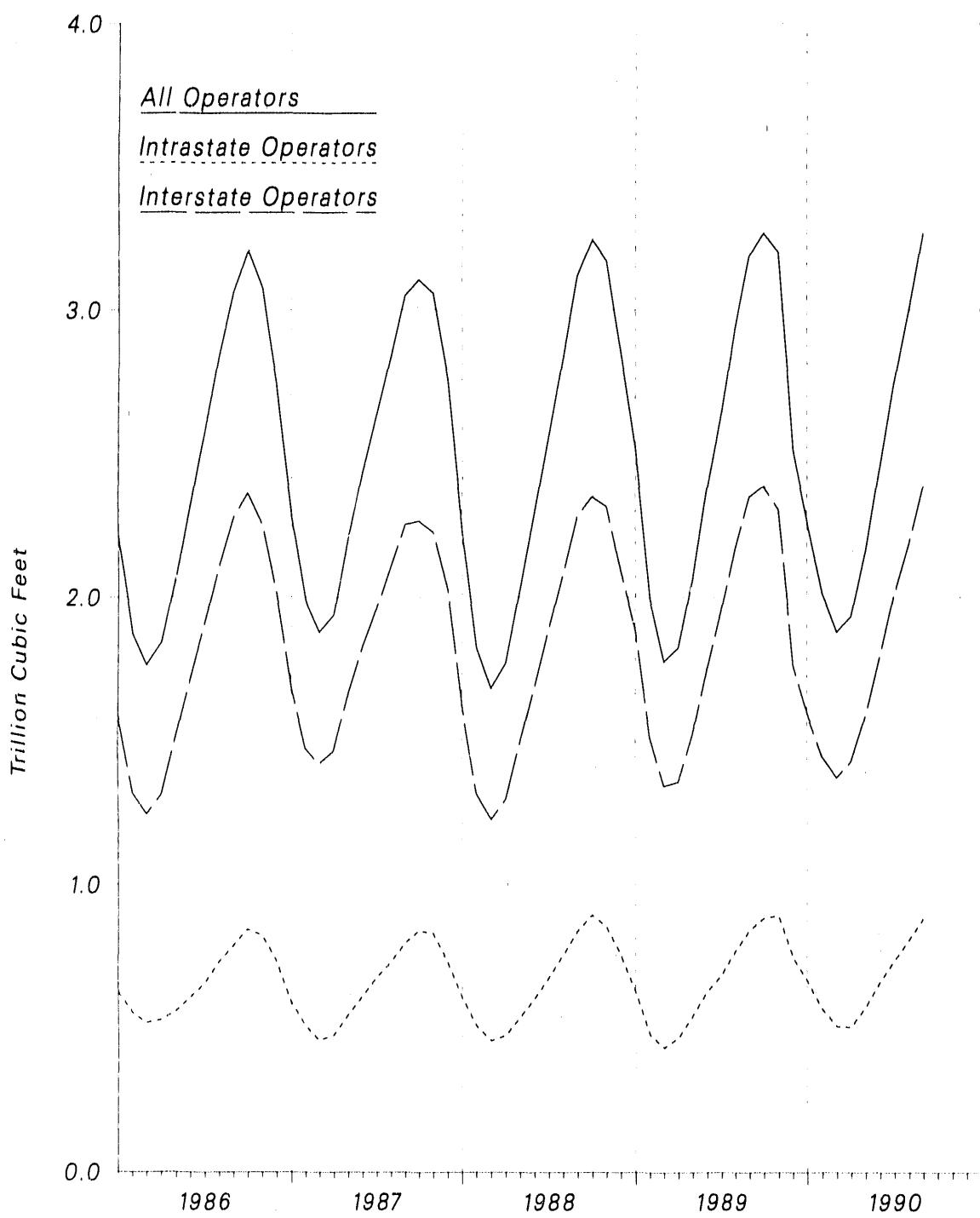
^b Total underground storage capacity at the end of each calendar Year (in billion cubic feet): 1984 - 8,043; 1985 - 8,087; 1986 - 8,145; 1987 and 1988 - 8,124, and 1989 - 8,124. Current total capacity is 8,125.

^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 and Sources. See the last page of this section.

Figure 6. Underground Natural Gas Storage in the United States



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

**Table 18. Underground Natural Gas Storage
(Interstate Operators of Storage Fields)
(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			Net ^c
	Base Gas	Working Gas	Total ^b	Volume	Percent	Injections	Withdrawals		
1984 Total^a	2,511	2,094	4,605	257	14.0	1,696	1,522	174	
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									
January	2,461	1,620	4,081	-66	-3.9	27	430	-403	
February	2,461	1,317	3,778	-158	-10.7	36	338	-303	
March	2,460	1,226	3,686	-193	-13.6	78	173	-95	
April	2,460	1,296	3,755	-167	-11.4	124	56	69	
May	2,460	1,490	3,950	-171	-10.3	214	22	192	
June	2,462	1,688	4,159	-138	-7.6	206	13	193	
July	2,462	1,892	4,353	-69	-3.5	216	13	203	
August	2,462	2,081	4,543	-26	-1.2	203	20	183	
September	2,462	2,282	4,744	29	1.3	218	21	197	
October	2,462	2,349	4,810	82	3.6	132	67	65	
November	2,469	2,316	4,785	89	4.0	87	111	-24	
December	2,469	2,092	4,561	68	3.3	47	260	-222	
Total	...	...	...	...	...	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	1,386	4,046	67	4.4	202	36	167	
June	2,479	1,793	4,273	46	2.6	233	32	201	
July	2,466	2,02	4,498	52	2.7	238	15	223	
August	2,487	2,180	4,673	16	.7	227	18	210	
September	2,488	2,386	4,874	38	1.6	198	22	176	

^a Total as of December 31

^b Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1984 - 5,557; 1985 - 5,602; 1986 - 5,642; 1987 and 1988 - 5,622, and 1989 - 5,622. Current total capacity is 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 and Sources: See the last page of this section

**Table 19. Underground Natural Gas Storage
(Intrastate Operators and Independent Producers)
(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
1984 Total^a	1,319	782	2,101	23	3.1	556	543	14
1985 Total^a	1,325	701	2,026	-81	-10.3	538	661	-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								
January	1,331	608	1,939	14	2.4	20	148	-128
February	1,331	509	1,840	-3	-6	14	118	-104
March	1,331	456	1,787	-4	-8	20	82	-62
April	1,330	474	1,804	-2	-3	39	37	2
May	1,331	537	1,868	-8	-1.4	68	24	44
June	1,331	604	1,935	-6	-1.0	68	23	46
July	1,331	675	2,006	-	-	78	29	49
August	1,329	754	2,083	25	3.5	80	32	47
September	1,329	838	2,167	42	5.3	90	25	66
October	1,330	894	2,225	55	6.5	66	26	40
November	1,334	854	2,189	23	2.7	30	46	-16
December	1,331	758	2,089	26	3.6	14	122	-107
Total	--	--	--	--	--	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	1,331	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	1,866	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

^a Total as of December 31.

^b Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1984 - 2,467; 1985 - 2,485; 1986 - 2,503; 1987 and 1988 - 2,502, and 1989 - 2,502. Current total capacity is 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.

* Volume is less than 500 million cubic feet.

Notes and Sources. See the last page of this section.

**Table 20. Activities of Multi-State Underground Natural Gas Storage Operators,
September 1990
(Volume in Million Cubic Feet)**

Pipeline Company	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	
	By Individual State		Total	Base Gas	Working Gas	Total	Volume	Percent	Current Period	Same Period Previous Year
Arkla, Inc.	KS 2,393 LA 15,000 OK 50,152		67,545	30,674	16,862	47,536	5,284	+3.9	167	2,278
Colorado Interstate	CO 56,289 KS 24,800		81,089	46,302	26,489	72,791	2,598	+0.9	4,543	3,357
Columbia Gas Transm	NY 18,285 OH 434,895 PA 36,494 WV 203,685		773,159	429,041	251,864	680,905	-3,601	-1.4	17,778	13,616
Consolidated Gas	NY 35,904 PA 497,077 WV 180,356		713,337	364,384	322,924	687,308	28,156	+9.6	35,811	31,579
Equitrans Inc	PA 23,286 WV 38,240		61,526	31,648	23,219	54,867	-2,778	-10.7	2,600	1,804
K N Energy Inc	CO 5,692 KS 5,845 NE 88,438		99,975	33,159	62,352	95,512	-1,658	-2.6	1,140	583
Mississippi River	IL 4,100 LA 82,300		86,400	53,986	30,057	84,043	6,602	+28.1	6,023	4,739
National Fuel	NY 56,400 PA 191,783		248,183	96,683	69,552	166,235	-1,069	-1.5	4,734	10,882
Natural Gas Pipeline	IL 220,400 IA 191,000 OK 86,000 TX 144,000		641,400	178,955	390,543	569,498	3,386	+9	11,556	10,493
Northern Natural	IA 120,000 KS 107,000		227,000	100,500	45,517	176,017	-1,211	-2.6	10,562	9,058
Panhandle Eastern	IL 70,000 MI 32,000 OK 21,600		123,600	77,026	31,624	108,650	287	+0.9	2,218	3,135
Phillips Petroleum	OK 2,150 TX 2,065 UT 3,000		7,215	1,623	5,945	7,568	2,355	+65.6	186	390
Questar Pipeline Co	UT 111,980 WY 10,000		121,980	57,560	25,389	82,949	5,408	+27.1	5,269	4,539
Texas Gas Transm	IN 11,272 KY 161,279		172,560	90,169	81,776	171,944	1,220	+1.5	4,369	-378
Transcontinental	LA 143,500 MS 8,361		151,861	57,567	66,738	124,305	-6,880	-9.3	5,573	8,500
United Gas Pipeline	LA 141,000 MS 5,550		146,550	75,024	42,717	117,741	-4,229	-9.0	-194	9,480
Williams Natural	KS 112,983 OK 55,298		168,281	111,978	35,089	147,067	1,774	+6.3	5,331	4,048
Williston Basin	MT 287,200 WY 66,610		353,810	75,202	215,327	290,528	-6,685	-3.0	3,444	829
Total			4,245,461	1,941,479	1,743,985	3,685,464	18,393	+1.1	120,775	118,932

^a 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 and Sources See the last page of this section

**Table 21. Activities of Single-State Underground Natural Gas Storage Operators,
by State, September 1990
(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	31,447	19,202	10,097	29,299	98	1.0	279	56
California	466,819	243,944	183,772	427,716	13,390	7.9	4,809	1,980
Colorado	20,682	6,248	12,980	19,228	3,219	33.0	1,358	386
Illinois	657,780	418,544	213,583	632,127	9,773	4.8	28,253	26,874
Indiana	100,774	68,941	26,111	95,052	1,081	4.3	3,399	3,007
Kansas	81,905	37,390	28,058	65,449	824	3.0	4,311	1,389
Kentucky	45,325	21,351	17,458	38,809	-702	-3.9	3,231	3,653
Louisiana	177,219	79,751	54,554	134,304	333	.6	5,202	2,151
Maryland	61,978	46,677	13,178	59,856	2,724	26.1	2,005	-1,527
Michigan	950,362	380,729	503,126	883,855	51,354	11.4	47,873	53,476
Minnesota	7,000	4,655	2,291	6,946	74	3.3	56	0
Mississippi	94,297	41,138	48,978	90,116	539	1.1	2,807	3,778
Missouri	29,791	21,600	7,898	29,498	103	1.3	503	292
Montana	86,760	45,800	24,700	70,500	131	.5	921	737
New Mexico	94,600	20,204	21,817	42,021	2,686	14.0	1,553	686
New York	45,670	19,995	21,443	41,437	1,101	5.4	2,972	2,272
Ohio	177,852	115,818	44,578	160,396	178	.4	8,908	8,483
Oklahoma	149,688	93,089	48,286	141,376	-3,502	-6.8	4,503	8,224
Oregon	9,791	3,291	7,423	10,714	2,606	54.1	372	338
Pennsylvania	56,754	25,638	14,037	39,676	629	4.7	2,140	1,369
Texas	443,716	151,049	190,830	341,879	-21,072	-9.9	-215	9,361
Washington	36,400	21,300	11,839	33,139	41	.3	978	2,094
West Virginia	20,851	9,793	9,385	19,178	-512	-5.2	1,000	1,066
Wyoming	27,221	13,990	6,916	20,906	566	8.9	449	-40
Total	3,874,681	1,910,137	1,523,338	3,433,476	65,663	4.5	127,668	130,106

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

Notes and Sources: See the last page of this section.

Table 22. Natural Gas Deliveries to Residential Consumers by State
 (Million Cubic Feet)

State	YTD 1990	YTD 1989	YTD 1988	August 1990	July 1990	June 1990
Alabama	34,954	33,835	36,798	1,354	1,432	1,683
Alaska	8,276	9,028	8,037	407	409	505
Arizona	21,581	19,580	20,982	803	873	1,119
Arkansas	28,798	30,166	31,855	1,110	1,154	1,384
California	351,972	358,835	350,274	22,338	R 22,558	R 25,181
Colorado	68,932	67,174	68,817	2,357	2,478	4,250
Connecticut	26,026	27,351	27,188	934	1,104	1,310
Delaware	5,538	5,545	5,566	166	183	260
District of Columbia	11,676	12,548	12,618	445	505	614
Florida	10,509	9,010	11,139	605	661	796
Georgia	59,111	61,763	72,757	2,882	2,895	3,268
Hawaii	390	387	385	40	49	49
Idaho	5,058	6,224	5,395	160	173	314
Illinois	250,2	312,278	313,297	10,241	9,883	10,913
Indiana	93,025	98,906	101,670	3,113	3,040	R 3,977
Iowa	51,155	54,076	54,251	1,543	1,648	2,432
Kansas	53,471	54,085	56,239	1,684	1,825	2,479
Kentucky	35,713	41,354	43,726	1,287	1,375	R 1,598
Louisiana	45,079	39,278	44,260	2,287	2,350	R 2,624
Maine	414	441	398	19	20	27
Maryland	49,439	52,619	53,550	2,019	2,240	2,696
Massachusetts	78,463	80,202	78,903	2,639	3,166	R 4,899
Michigan	219,148	240,001	245,246	8,299	7,823	10,750
Minnesota	67,775	77,608	77,037	2,284	2,355	R 3,309
Mississippi	25,616	18,201	19,768	1,115	1,173	1,299
Missouri	83,104	89,957	92,002	2,711	2,944	R 3,781
Montana	10,711	12,297	11,217	395	R 392	R 706
Nebraska	28,098	30,536	31,422	947	1,056	R 1,294
Nevada	11,079	11,748	11,132	520	562	706
New Hampshire	4,171	4,474	4,233	128	145	247
New Jersey	116,405	132,264	129,164	4,582	5,092	5,799
New Mexico	22,128	19,208	20,652	771	812	1,116
New York	241,749	253,272	250,504	8,758	10,055	R 13,590
North Carolina	25,090	26,884	27,061	733	765	953
North Dakota	6,077	6,960	6,456	167	191	314
Ohio	199,909	221,317	233,748	7,023	7,744	9,442
Oklahoma	49,342	51,499	53,755	1,616	1,697	2,234
Oregon	15,468	16,399	15,231	561	706	1,118
Pennsylvania	170,846	183,412	188,338	5,759	6,037	R 8,484
Rhode Island	12,684	12,862	12,633	481	482	R 762
South Carolina	13,376	14,068	14,852	347	367	447
South Dakota	6,567	7,670	7,671	215	231	326
Tennessee	32,313	34,272	34,629	957	988	1,258
Texas	185,366	151,758	151,634	10,261	10,398	R 11,617
Utah	28,446	32,564	30,222	1,236	1,314	R 1,880
Vermont	1,370	1,468	1,305	40	43	72
Virginia	35,775	41,235	40,704	1,425	1,450	1,712
Washington	25,059	27,192	24,301	794	1,048	1,770
West Virginia	23,696	24,946	26,295	695	723	R 1,054
Wisconsin	74,825	86,540	83,197	2,556	2,380	3,300
Wyoming	8,171	8,527	8,421	286	335	579
Total	3,034,237	3,213,825	3,250,929	124,099	R 129,326	R 162,298

See footnote at end of table.

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

State	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	2,751	4,290	5,441	6,724	11,279	47,932
Alaska	711	1,089	1,619	1,927	1,609	13,589
Arizona	1,394	2,146	3,940	5,452	5,854	27,084
Arkansas	2,188	3,858	4,686	5,627	8,791	42,312
California	R 31,077	R 37,733	R 60,612	R 73,834	R 78,639	514,276
Colorado	7,351	10,013	12,810	13,752	15,921	91,567
Connecticut	2,146	3,613	4,872	5,528	6,519	40,687
Delaware	448	796	1,006	1,068	1,611	7,595
District of Columbia	876	1,569	2,046	2,261	3,360	17,433
Florida	922	1,193	1,437	1,674	3,221	13,089
Georgia	3,919	6,631	10,462	12,224	16,830	103,657
Hawaii	46	50	55	52	49	565
Idaho	415	551	942	1,240	1,263	8,783
Illinois	20,716	33,056	45,917	56,789	62,779	496,487
Indiana	R 7,049	R 13,284	R 17,214	R 20,144	25,204	155,887
Iowa	4,139	7,278	9,528	10,579	14,008	77,403
Kansas	4,525	7,592	9,157	11,044	15,165	76,034
Kentucky	2,405	4,922	6,258	8,266	9,602	65,086
Louisiana	R 3,217	5,114	6,872	7,791	14,824	57,705
Maine	43	59	73	76	97	638
Maryland	3,607	6,956	8,918	9,095	13,908	75,138
Massachusetts	7,008	11,336	14,519	15,318	19,578	111,661
Michigan	18,679	30,628	42,094	46,674	54,201	361,667
Minnesota	5,208	8,961	12,805	15,065	17,788	116,909
Mississippi	1,784	3,108	3,936	4,661	8,540	26,312
Missouri	R 6,236	11,754	14,279	16,687	24,712	129,144
Montana	R 1,113	R 1,470	R 1,914	2,265	2,456	18,195
Nebraska	2,208	3,841	5,106	6,279	7,367	44,804
Nevada	785	1,027	2,013	2,743	2,723	16,765
New Hampshire	373	617	768	839	1,054	6,290
New Jersey	9,023	16,713	21,773	22,987	30,436	195,542
New Mexico	1,788	2,718	4,124	5,074	5,725	26,591
New York	R 20,396	R 34,874	R 46,809	R 51,009	R 56,258	364,713
North Carolina	1,596	3,281	4,381	4,886	8,495	38,658
North Dakota	541	883	1,094	1,341	1,546	9,825
Ohio	16,519	27,707	37,461	45,671	48,342	359,148
Oklahoma	4,076	6,727	8,370	10,346	14,276	71,793
Oregon	1,369	1,688	2,985	3,511	3,530	22,504
Pennsylvania	13,220	24,504	31,894	34,298	46,650	270,756
Rhode Island	1,179	1,806	2,375	2,449	3,150	18,283
South Carolina	750	1,565	2,292	2,636	4,972	20,472
South Dakota	565	904	1,218	1,441	1,667	11,342
Tennessee	2,044	4,252	5,379	6,285	11,150	49,136
Texas	R 14,692	R 20,745	R 31,268	33,445	52,940	230,100
Utah	2,409	3,074	5,330	6,499	6,704	45,168
Vermont	114	193	267	287	354	2,126
Virginia	2,373	4,539	6,679	7,086	10,511	61,712
Washington	2,344	3,018	4,859	5,811	5,415	38,359
West Virginia	1,772	3,451	4,233	4,757	7,011	37,128
Wisconsin	6,450	9,810	14,481	16,927	18,921	127,009
Wyoming	842	1,132	1,498	1,678	1,819	11,780
Total	R 247,401	R 398,119	R 550,067	R 634,104	R 788,823	4,776,838

See footnote at end of table

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

State	December 1989	November 1989	October 1989	September 1989	August 1989	July 1989
Alabama	7,212	3,632	1,854	1,399	1,377	1,451
Alaska	1,656	1,474	895	536	370	432
Arizona	3,945	1,768	959	833	777	880
Arkansas	6,356	2,987	1,562	1,239	1,137	1,237
California	63,104	40,070	28,083	24,184	22,977	22,730
Colorado	11,066	6,975	3,750	2,601	2,279	2,778
Connecticut	6,991	3,221	1,986	1,138	996	1,114
Delaware	1,085	485	275	207	189	192
District of Columbia	2,637	1,099	655	494	483	507
Florida	1,825	974	637	641	617	674
Georgia	22,132	11,108	5,189	3,465	2,791	2,987
Hawaii	46	46	43	45	42	46
Idaho	1,241	768	329	221	146	160
Illinois	93,702	51,130	25,845	13,532	9,889	10,700
Indiana	29,647	15,182	8,195	3,956	2,868	2,893
Iowa	12,401	5,912	3,225	1,790	1,527	1,647
Kansas	11,694	5,398	2,901	1,955	1,687	1,845
Kentucky	13,034	6,141	3,109	1,446	1,337	1,332
Louisiana	9,714	4,166	2,513	2,035	2,026	2,189
Maine	95	46	35	21	19	12
Maryland	12,076	5,131	3,134	2,177	2,070	2,241
Massachusetts	16,224	7,495	4,839	2,901	2,683	3,006
Michigan	60,266	31,679	19,994	9,726	7,957	8,052
Minnesota	20,120	11,067	5,430	2,682	2,269	2,388
Mississippi	4,241	1,933	1,043	894	829	864
Missouri	21,588	9,441	5,047	3,111	2,732	3,008
Montana	2,518	1,728	1,084	568	435	426
Nebraska	7,297	3,788	1,972	1,212	1,007	1,078
Nevada	2,359	1,400	703	555	478	531
New Hampshire	926	448	274	169	127	155
New Jersey	33,347	15,715	8,933	5,283	4,778	5,231
New Mexico	3,746	1,975	899	765	734	829
New York	57,291	28,576	16,060	9,514	9,189	10,098
North Carolina	6,866	2,823	1,338	745	695	744
North Dakota	1,411	816	398	240	166	213
Ohio	69,403	37,970	20,647	9,812	7,262	7,332
Oklahoma	11,039	4,798	2,571	1,886	1,654	1,858
Oregon	2,886	1,835	804	581	549	696
Pennsylvania	44,962	22,443	13,222	6,717	6,014	6,401
Rhode Island	2,744	1,325	855	497	464	500
South Carolina	3,911	1,526	620	346	327	395
South Dakota	1,764	1,076	535	298	221	245
Tennessee	8,590	3,551	1,681	1,043	960	1,040
Texas	43,770	16,927	9,777	7,869	7,211	7,726
Utah	5,923	3,640	1,718	1,322	1,235	1,374
Vermont	353	165	97	43	37	40
Virginia	11,473	4,799	2,831	1,374	1,340	1,479
Washington	5,091	3,484	1,622	969	801	1,002
West Virginia	6,382	3,240	1,738	824	695	741
Wisconsin	20,661	10,581	6,052	3,173	2,220	2,736
Wyoming	1,412	973	518	350	259	344
Total	790,223	404,930	228,478	139,383	120,932	128,582

See footnote at end of table.

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

State	June 1989	May 1989	April 1989	March 1989	February 1989	January 1989
Alabama	1,702	2,845	4,703	7,363	7,017	7,377
Alaska	638	858	1,223	1,566	2,148	1,793
Arizona	1,094	1,205	1,670	2,937	4,913	6,104
Arkansas	1,402	1,927	3,835	6,736	7,118	6,774
California	26,581	31,161	37,832	53,779	75,817	87,958
Colorado	3,947	5,694	8,580	13,652	15,278	14,966
Connecticut	1,296	2,231	3,694	5,717	5,891	6,412
Delaware	272	466	793	1,223	1,153	1,257
District of Columbia	649	1,025	1,663	2,762	2,556	2,903
Florida	707	817	1,207	1,834	1,445	1,709
Georgia	3,049	4,628	7,210	9,600	16,386	15,112
Hawaii	49	47	50	50	52	51
Idaho	306	368	747	1,206	1,672	1,619
Illinois	12,514	24,410	40,291	63,870	76,331	74,273
Indiana	3,831	7,658	12,797	20,943	23,932	23,984
Iowa	2,063	3,943	7,244	12,215	12,643	12,794
Kansas	2,203	3,436	6,518	11,948	13,762	12,686
Kentucky	1,809	3,161	5,319	8,293	10,403	9,700
Louisiana	2,321	2,816	4,724	8,377	8,546	8,279
Maine	27	49	66	92	84	92
Maryland	2,681	4,320	7,032	11,186	10,880	12,209
Massachusetts	4,053	7,552	11,858	16,940	16,517	17,593
Michigan	9,803	20,415	34,224	51,163	52,459	55,928
Minnesota	3,121	5,523	9,806	16,511	19,064	18,926
Mississippi	929	1,282	2,195	4,077	4,030	3,995
Missouri	3,615	5,793	11,192	19,809	22,300	21,508
Montana	680	965	1,666	2,544	2,778	2,803
Nebraska	1,137	1,968	3,687	6,742	7,911	7,006
Nevada	748	829	1,106	1,957	2,971	3,128
New Hampshire	210	422	686	926	904	1,044
New Jersey	6,101	10,547	17,680	27,754	29,095	31,078
New Mexico	910	1,111	1,960	3,345	4,696	5,623
New York	13,364	23,868	35,963	51,981	52,502	56,307
North Carolina	1,020	1,899	3,723	6,202	5,655	6,946
North Dakota	309	506	1,040	1,476	1,590	1,660
Ohio	7,759	18,482	31,700	42,862	56,594	49,326
Oklahoma	2,169	3,043	5,784	12,277	13,137	11,577
Oregon	950	1,141	2,054	3,351	4,026	3,632
Pennsylvania	8,128	15,826	26,312	37,888	40,318	42,525
Rhode Island	590	1,223	1,828	2,711	2,682	2,864
South Carolina	468	879	1,875	3,327	3,029	3,768
South Dakota	340	562	1,036	1,639	1,865	1,762
Tennessee	1,345	2,217	4,305	7,951	8,141	8,313
Texas	8,127	9,324	15,648	29,982	40,274	33,466
Utah	1,763	2,215	3,585	5,786	8,290	8,316
Vermont	61	122	227	314	314	353
Virginia	1,713	2,881	5,421	9,042	9,446	9,913
Washington	1,501	1,822	3,625	5,730	6,660	6,051
West Virginia	1,001	2,263	3,608	5,179	5,621	5,838
Wisconsin	3,777	7,875	12,003	18,950	19,607	19,372
Wyoming	517	743	1,180	1,597	1,964	1,923
Total	155,351	256,364	414,175	645,362	742,465	750,594

R Revised Data

Notes and Sources See the last page of this section

Table 23. Natural Gas Deliveries to Commercial Consumers by State
 (Million Cubic Feet)

State	YTD 1990	YTD 1989	YTD 1988	August 1990	July 1990	June 1990
Alabama	17,293	18,414	18,450	1,214	1,196	993
Alaska	13,507	14,387	13,596	1,077	1,061	1,087
Arizona	20,311	19,953	20,052	1,581	1,686	1,835
Arkansas	17,997	19,049	20,208	1,044	1,031	1,073
California	191,175	171,953	170,794	17,659	R 21,061	R 17,410
Colorado	48,882	48,399	49,805	2,123	2,162	3,162
Connecticut	18,609	21,330	18,717	1,309	1,352	1,314
Delaware	2,888	2,935	2,905	140	140	170
District of Columbia	9,619	11,112	10,691	589	528	686
Florida	25,749	23,690	26,310	2,481	2,564	2,857
Georgia	34,839	33,817	37,774	2,539	2,365	2,638
Hawaii	1,448	1,425	1,392	180	195	181
Idaho	5,225	6,287	5,669	279	293	357
Illinois	127,747	124,857	143,871	5,863	5,765	5,741
Indiana	43,819	46,360	47,378	1,861	1,659	R 1,965
Iowa	29,933	31,919	31,738	1,196	1,217	1,549
Kansas	42,607	41,540	44,405	4,752	5,111	3,185
Kentucky	20,386	23,052	24,298	1,073	1,033	R 1,146
Louisiana	20,532	18,228	19,895	1,411	1,551	R 1,708
Maine	1,032	1,106	995	47	52	62
Maryland	17,333	19,273	18,358	986	1,075	1,116
Massachusetts	34,998	36,477	34,652	2,051	2,020	R 2,504
Michigan	107,076	118,233	117,742	4,999	4,743	5,495
Minnesota	48,524	55,565	55,181	2,071	1,997	R 2,391
Mississippi	17,944	11,797	12,879	1,202	1,262	1,404
Missouri	41,532	43,603	45,281	1,918	1,980	R 2,260
Montana	7,688	8,877	7,948	350	R 325	R 490
Nebraska	26,058	26,810	29,528	2,595	4,829	R 1,326
Nevada	10,793	10,403	10,401	1,193	928	953
New Hampshire	3,461	3,738	3,513	153	153	207
New Jersey	71,060	80,959	71,915	4,901	4,912	4,685
New Mexico	17,278	19,964	22,368	863	825	1,082
New York	132,023	131,546	129,183	9,564	9,634	R 10,377
North Carolina	19,854	22,732	22,074	1,385	1,302	1,342
North Dakota	6,519	7,349	6,848	297	314	353
Ohio	95,630	102,082	106,701	4,138	3,948	4,721
Oklahoma	33,124	27,315	34,453	1,354	1,312	1,886
Oregon	12,932	14,408	13,106	765	817	1,046
Pennsylvania	83,668	88,340	88,251	4,524	4,441	R 5,195
Rhode Island	5,236	5,880	5,850	365	413	R 244
South Carolina	11,096	11,400	11,931	838	843	903
South Dakota	5,357	5,911	5,887	217	221	281
Tennessee	29,470	32,182	32,298	1,779	1,644	1,906
Texas	158,843	127,234	124,620	15,610	R 18,936	R 19,083
Utah	12,134	11,994	13,329	364	373	R 581
Vermont	1,297	1,382	1,302	62	46	63
Virginia	28,044	29,918	29,014	1,805	1,832	1,771
Washington	25,235	27,264	25,586	1,474	1,637	1,857
West Virginia	13,828	15,285	15,244	782	752	R 937
Wisconsin	43,588	47,367	46,603	1,707	1,757	1,918
Wyoming	6,083	6,141	6,360	237	265	420
Total	1,821,298	1,831,236	1,857,338	118,965	R 127,557	R 127,913

See footnote at end of table

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

State	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	1,628	2,162	2,624	3,006	4,470	26,438
Alaska	1,396	1,734	2,329	2,477	2,346	21,738
Arizona	2,424	2,347	3,169	3,564	3,705	28,580
Arkansas	1,407	2,238	2,825	3,390	4,989	27,284
California	R 18,552	R 23,439	R 27,435	R 34,812	R 30,807	259,118
Colorado	5,181	6,989	8,743	9,668	10,854	67,477
Connecticut	1,564	2,673	3,146	3,426	3,825	30,781
Delaware	233	408	517	516	764	4,184
District of Columbia	933	1,358	1,755	1,822	1,948	15,741
Florida	3,058	3,272	3,509	3,573	4,435	35,105
Georgia	3,001	4,166	5,368	6,229	8,533	53,114
Hawaii	174	173	181	181	183	2,129
Idaho	439	559	917	1,177	1,204	8,994
Illinois	10,096	17,945	22,690	27,016	32,631	196,133
Indiana	R 3,193	R 6,091	R 7,966	R 9,387	11,697	73,613
Iowa	2,330	4,122	5,532	6,165	7,822	46,142
Kansas	3,456	5,228	5,548	6,715	8,612	58,554
Kentucky	1,575	2,690	3,464	4,229	5,176	36,145
Louisiana	R 1,855	2,511	2,928	3,243	5,325	26,617
Maine	95	154	186	200	236	1,660
Maryland	1,535	2,444	3,016	3,074	4,087	26,920
Massachusetts	3,227	4,997	6,077	6,250	7,872	51,508
Michigan	8,936	14,889	20,094	21,945	25,975	176,181
Minnesota	3,801	6,363	9,273	10,712	11,916	85,183
Mississippi	1,695	2,246	2,442	2,936	4,757	17,568
Missouri	R 3,250	5,617	6,848	7,987	11,672	63,039
Montana	R 771	R 1,005	R 1,411	1,573	1,763	13,141
Nebraska	1,561	2,959	3,535	4,234	5,019	37,351
Nevada	989	1,165	1,710	1,929	1,926	15,116
New Hampshire	288	485	579	753	843	5,371
New Jersey	6,298	10,120	12,388	12,426	15,330	117,385
New Mexico	1,508	2,173	3,068	3,694	4,065	28,459
New York	R 11,466	R 18,013	R 23,236	R 23,791	R 25,942	196,380
North Carolina	1,649	2,520	3,165	3,444	5,047	33,145
North Dakota	567	966	1,145	1,342	1,535	10,609
Ohio	7,256	13,011	19,785	19,091	23,680	161,516
Oklahoma	2,826	4,238	5,176	6,955	9,377	38,493
Oregon	1,147	1,402	2,317	2,740	2,698	20,249
Pennsylvania	6,637	12,117	14,718	15,928	20,108	132,500
Rhode Island	549	816	851	860	1,138	8,767
South Carolina	1,123	1,344	1,678	1,755	2,612	16,525
South Dakota	461	722	998	1,151	1,306	8,826
Tennessee	2,371	3,634	4,359	5,524	8,253	47,573
Texas	R 16,353	R 18,719	R 22,259	20,678	27,205	184,179
Utah	932	1,304	2,462	3,013	3,105	16,522
Vermont	108	183	250	269	316	2,081
Virginia	2,332	4,413	4,943	5,003	5,945	44,181
Washington	2,594	3,128	4,275	5,387	4,883	38,502
West Virginia	1,169	1,947	2,240	2,520	3,481	23,257
Wisconsin	3,620	5,305	8,524	9,180	11,577	70,090
Wyoming	643	843	1,110	1,228	1,337	8,551
Total	R 160,253	R 239,348	R 304,765	R 338,168	R 404,329	2,718,716

See footnote at end of table.

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

State	December 1989	November 1989	October 1989	September 1989	August 1989	July 1989
Alabama	3,503	1,953	1,381	1,187	1,115	1,672
Alaska	2,429	2,144	1,577	1,202	1,091	1,042
Arizona	3,106	2,294	1,633	1,596	1,578	1,804
Arkansas	3,943	1,949	1,246	1,097	1,008	1,020
California	26,192	21,665	19,856	19,452	17,351	15,319
Colorado	8,102	5,441	3,232	2,303	2,119	2,328
Connecticut	3,891	2,324	1,685	1,551	1,579	1,528
Delaware	630	294	182	144	133	128
District of Columbia	2,052	1,090	775	712	763	692
Florida	3,620	2,868	2,444	2,484	2,369	2,525
Georgia	8,393	4,836	3,477	2,590	2,361	2,412
Hawaii	177	172	179	175	173	182
Idaho	1,172	783	433	320	249	300
Illinois	33,840	20,169	11,091	6,176	4,862	5,444
Indiana	13,611	7,576	3,850	2,217	1,659	1,579
Iowa	7,110	3,738	2,129	1,247	1,234	1,190
Kansas	6,763	4,386	2,785	3,081	4,812	3,566
Kentucky	6,648	3,327	1,971	1,147	991	1,099
Louisiana	3,454	1,995	1,537	1,405	1,314	1,372
Maine	269	128	96	60	50	51
Maryland	3,647	1,801	1,220	978	941	968
Massachusetts	6,864	3,647	2,720	1,799	1,894	1,726
Michigan	28,269	15,776	8,855	5,047	4,467	4,570
Minnesota	13,661	8,764	4,718	2,475	2,011	2,112
Mississippi	2,727	1,350	939	754	701	718
Missouri	9,903	4,716	2,798	2,021	1,780	1,829
Montana	1,781	1,235	806	442	381	330
Nebraska	4,196	2,602	2,109	1,634	4,240	3,381
Nevada	1,690	1,257	954	811	805	790
New Hampshire	817	393	248	176	140	154
New Jersey	16,342	9,150	6,297	4,638	4,520	4,881
New Mexico	3,830	2,441	1,191	1,034	1,146	913
New York	27,650	16,631	11,741	8,812	8,305	8,382
North Carolina	4,396	2,639	1,843	1,534	1,454	1,475
North Dakota	1,506	951	464	340	238	269
Ohio	30,143	15,949	8,946	4,397	3,735	3,565
Oklahoma	5,871	2,541	1,527	1,241	1,097	1,180
Oregon	2,363	1,624	972	882	804	823
Pennsylvania	21,010	11,588	7,185	4,378	4,161	4,272
Rhode Island	1,014	654	657	560	518	471
South Carolina	1,964	1,324	970	866	808	908
South Dakota	1,374	851	434	255	197	203
Tennessee	7,414	3,774	2,358	1,845	1,661	1,804
Texas	24,013	12,961	10,462	9,509	11,439	12,862
Utah	2,304	1,313	522	390	346	357
Vermont	307	189	130	73	57	57
Virginia	6,474	3,612	2,192	1,985	1,485	1,866
Washington	4,433	3,366	2,083	1,357	1,548	1,671
West Virginia	3,704	2,036	1,373	859	853	785
Wisconsin	11,182	6,386	3,437	1,718	1,499	1,562
Wyoming	1,022	724	396	268	233	285
Total	390,776	231,374	152,108	113,222	110,276	110,221

See footnote at end of table

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

State	June 1989	May 1989	April 1989	March 1989	February 1989	January 1989
Alabama	1,213	1,717	2,366	3,391	3,510	3,430
Alaska	1,287	1,569	1,049	2,258	2,691	2,500
Arizona	1,950	1,992	2,274	2,843	3,570	3,942
Arkansas	1,357	1,261	2,181	3,963	4,338	3,921
California	21,469	19,249	18,656	21,880	29,564	28,465
Colorado	3,082	4,160	6,135	9,208	10,845	10,522
Connecticut	1,625	2,106	2,897	3,937	3,749	3,909
Delaware	166	249	398	624	605	632
District of Columbia	803	999	1,635	2,066	2,021	2,133
Florida	2,570	2,670	3,083	3,545	3,435	3,493
Georgia	2,341	2,983	3,922	5,166	7,502	7,130
Hawaii	175	181	175	174	178	187
Idaho	353	408	690	1,156	1,569	1,562
Illinois	5,974	9,306	15,896	25,958	29,585	27,832
Indiana	1,904	3,296	5,767	9,612	11,374	11,169
Iowa	1,380	2,216	4,133	6,928	7,466	7,372
Kansas	2,547	3,660	5,433	6,870	7,697	7,155
Kentucky	1,167	1,766	2,839	4,545	5,506	5,139
Louisiana	1,449	1,754	2,315	3,394	3,298	3,332
Maine	63	106	160	221	226	229
Maryland	1,154	1,701	2,586	4,247	3,700	3,976
Massachusetts	2,150	3,703	5,392	7,234	6,984	7,394
Michigan	5,954	10,150	16,375	24,717	25,448	26,552
Minnesota	2,416	3,980	6,916	11,411	13,607	13,112
Mississippi	739	947	1,407	2,411	2,502	2,372
Missouri	2,359	2,799	5,246	9,192	10,280	10,118
Montana	478	687	1,208	1,841	1,923	2,029
Nebraska	1,757	1,648	2,505	4,252	4,825	4,202
Nevada	890	1,004	1,100	1,533	2,125	2,156
New Hampshire	188	339	551	771	753	842
New Jersey	5,087	7,587	10,928	15,624	15,506	16,826
New Mexico	1,211	1,517	2,059	3,377	4,499	5,242
New York	8,747	12,079	18,494	25,344	24,630	25,565
North Carolina	1,568	2,022	3,046	4,367	4,016	4,784
North Dakota	335	508	1,027	1,514	1,669	1,789
Ohio	3,927	8,237	13,360	21,187	24,435	23,636
Oklahoma	1,278	1,600	2,867	6,195	7,031	6,067
Oregon	989	1,140	1,724	2,761	3,283	2,884
Pennsylvania	4,649	8,264	11,996	16,983	18,693	19,322
Rhode Island	457	565	855	1,003	979	1,032
South Carolina	891	1,094	1,489	2,098	1,936	2,176
South Dakota	276	413	776	1,253	1,454	1,339
Tennessee	1,918	2,532	4,059	6,390	6,849	6,969
Texas	10,829	11,404	15,884	20,327	23,084	21,405
Utah	472	653	1,227	2,280	3,376	3,283
Vermont	66	105	199	283	300	315
Virginia	2,129	2,446	4,051	5,721	6,056	6,164
Washington	1,851	2,194	3,672	5,424	5,561	5,343
West Virginia	881	1,476	2,041	2,807	3,265	3,177
Wisconsin	2,012	3,882	6,662	10,168	10,987	10,595
Wyoming	368	521	852	1,111	1,414	1,357
Total	120,901	158,845	239,458	341,563	379,899	376,073

^a Revised Data

Notes and Sources: See the last page of this section

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

State	YTD 1990	YTD 1989	YTD 1988	August 1990	July 1990	June 1990
Alabama	93,701	97,927	94,215	10,928	10,939	10,524
Alaska	31,631	41,665	46,044	3,872	4,004	3,972
Arizona	13,334	13,767	15,557	1,536	1,680	1,585
Arkansas	79,014	85,968	67,031	8,969	9,021	8,293
California	350,532	320,372	287,872	40,670	^b 48,296	^b 46,303
Colorado	35,069	34,525	25,522	5,498	3,770	3,933
Connecticut	16,317	12,739	12,845	2,243	2,003	1,904
Delaware	11,230	10,190	10,107	1,365	1,208	1,362
District of Columbia	0	0	0	0	0	0
Florida	56,748	51,286	51,493	8,782	6,819	6,792
Georgia	104,331	102,268	99,684	12,642	10,682	11,577
Hawaii	0	0	0	0	0	0
Idaho	13,496	14,885	13,713	1,459	1,394	1,413
Illinois	179,195	179,096	180,207	17,384	^b 18,877	18,674
Indiana	148,141	146,202	148,234	16,737	15,985	^b 16,207
Iowa	63,539	60,543	68,691	6,513	6,300	7,842
Kansas	77,904	69,763	74,284	9,356	10,945	8,890
Kentucky	41,958	42,106	38,829	4,968	4,419	^b 4,851
Louisiana	622,063	577,522	527,481	84,693	76,180	^b 82,663
Maine	1,131	883	766	155	148	145
Maryland	39,841	45,754	42,958	4,348	3,971	4,347
Massachusetts	27,147	24,032	19,916	5,095	3,285	^b 3,361
Michigan	125,832	131,260	129,812	13,458	11,671	12,599
Minnesota	55,784	53,244	51,093	6,844	6,383	^b 6,042
Mississippi	68,501	65,056	62,168	9,520	9,198	8,810
Missouri	38,823	41,178	36,658	4,318	4,196	^b 4,295
Montana	5,273	5,843	5,268	605	571	^b 547
Nebraska	17,352	22,203	21,807	1,957	^b 1,873	^b 1,873
Nevada	4,853	5,139	4,790	592	587	567
New Hampshire	1,796	1,449	1,273	256	157	209
New Jersey	54,488	55,766	53,541	6,960	6,139	6,250
New Mexico	10,632	12,189	9,607	1,497	1,418	1,259
New York	63,627	62,940	62,273	7,668	6,426	^b 6,680
North Carolina	53,288	55,726	48,274	7,162	6,086	5,909
North Dakota	2,509	2,828	2,442	280	239	250
Ohio	171,444	184,382	184,233	16,442	16,434	18,966
Oklahoma	115,243	117,647	108,208	15,646	15,483	12,979
Oregon	35,581	28,074	26,014	5,803	5,174	3,348
Pennsylvania	153,124	163,103	152,415	18,344	17,007	^b 18,290
Rhode Island	2,725	3,224	3,123	331	189	^b 326
South Carolina	55,462	49,770	47,215	9,787	8,846	6,542
South Dakota	3,319	3,228	3,091	431	417	434
Tennessee	71,567	71,145	69,103	8,988	8,705	8,273
Texas	1,324,803	1,165,696	1,113,451	172,507	168,467	^b 174,702
Utah	21,994	21,908	19,952	2,467	2,372	^b 2,722
Vermont	1,589	1,284	1,154	296	204	164
Virginia	40,639	40,625	35,167	6,739	6,434	5,238
Washington	50,427	47,366	46,984	5,906	6,028	6,502
West Virginia	29,990	32,615	26,302	3,998	4,099	^b 4,039
Wisconsin	77,421	83,684	81,166	8,058	7,415	7,440
Wyoming	11,684	10,160	10,026	1,519	1,569	1,519
Total	4,676,092	4,470,228	4,242,056	585,594	^b 563,713	^b 571,412

See footnotes at end of table.

Table 24. Natural Gas Deliveries to Industrial Consumers by State (Continued)
(Million Cubic Feet)

State	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	10,734	12,064	12,713	12,148	13,651	149,047
Alaska	2,767	4,312	4,486	4,072	4,146	59,341
Arizona	1,423	1,632	2,010	1,747	1,721	20,705
Arkansas	8,796	11,135	11,088	10,503	11,209	129,333
California	^R 42,565	^R 51,243	^R 33,844	^R 39,757	^R 47,854	507,948
Colorado	3,475	3,872	4,702	4,969	4,850	51,348
Connecticut	2,055	2,472	2,127	2,013	1,500	19,724
Delaware	1,396	1,376	1,546	1,285	1,692	15,141
District of Columbia	0	0	0	0	0	0
Florida	7,020	6,342	6,705	6,470	7,818	75,485
Georgia	13,260	13,108	14,383	13,758	14,921	152,516
Hawaii	0	0	0	0	0	0
Idaho	1,653	1,611	1,974	1,880	2,112	22,903
Illinois	20,229	23,645	26,850	25,092	28,444	278,826
Indiana	^R 18,970	^R 18,983	^R 20,611	^R 18,986	21,662	219,952
Iowa	8,252	8,308	8,537	8,444	9,343	89,347
Kansas	10,513	9,226	9,810	9,404	9,760	100,623
Kentucky	4,899	5,356	5,631	5,631	6,203	64,003
Louisiana	^R 84,872	74,393	73,753	71,670	73,839	897,754
Maine	155	250	78	121	79	1,374
Maryland	4,053	5,108	5,767	6,336	5,911	66,271
Massachusetts	2,910	4,138	2,977	2,520	2,861	35,588
Michigan	14,202	16,743	18,242	18,260	20,657	192,981
Minnesota	6,624	7,242	7,741	7,358	7,550	81,479
Mississippi	8,917	7,586	7,740	8,045	8,685	99,790
Missouri	^R 4,883	4,793	5,199	5,125	6,014	62,680
Montana	^R 692	^R 657	^R 689	645	867	9,903
Nebraska	2,165	2,237	2,471	2,450	2,326	30,545
Nevada	592	615	636	597	667	7,859
New Hampshire	325	296	166	179	208	2,241
New Jersey	6,528	7,524	8,268	6,629	6,190	84,771
New Mexico	1,317	1,413	1,229	1,202	1,297	18,710
New York	^R 7,612	^R 7,751	^R 9,033	^R 8,984	^R 9,473	96,864
North Carolina	6,814	6,909	7,341	6,533	6,534	82,629
North Dakota	312	329	357	362	380	4,525
Ohio	20,335	23,172	24,336	24,805	26,954	278,205
Oklahoma	13,349	13,986	13,596	14,213	15,991	180,182
Oregon	3,695	3,594	4,105	5,424	4,438	43,752
Pennsylvania	17,726	20,274	20,253	20,411	20,819	242,526
Rhode Island	400	460	361	295	363	4,624
South Carolina	6,299	6,312	6,474	5,442	5,760	74,534
South Dakota	336	431	422	452	396	4,962
Tennessee	9,041	8,900	9,201	8,973	9,486	106,860
Texas	^R 192,326	^R 179,213	^R 158,118	130,931	148,539	1,787,888
Utah	2,566	2,687	2,990	3,070	3,120	33,963
Vermont	185	198	184	162	196	1,901
Virginia	4,761	4,121	4,319	4,311	4,716	57,761
Washington	6,182	5,753	6,492	6,390	7,174	73,239
West Virginia	3,724	3,568	3,747	3,444	3,371	49,943
Wisconsin	8,753	9,695	11,773	11,547	12,740	127,439
Wyoming	1,348	1,405	1,385	1,366	1,573	16,217
Total	^R 602,005	^R 606,437	^R 586,459	^R 554,410	^R 606,062	6,816,200

See footnotes at end of table

Table 24. Natural Gas Deliveries to Industrial Consumers by State (Continued)
 (Million Cubic Feet)

State	December 1989	November 1989	October 1989	September 1989	August 1989	July 1989
Alabama	13,173	13,623	12,863	11,462	11,536	10,909
Alaska	4,501	3,996	4,442	4,738	4,954	5,297
Arizona	1,580	1,919	1,874	1,566	1,655	1,590
Arkansas	11,015	11,959	12,052	8,338	9,342	10,474
California	47,723	42,439	49,435	47,977	45,858	42,363
Colorado	4,589	4,180	4,163	3,891	5,291	3,308
Connecticut	1,644	2,103	1,841	1,396	1,272	1,223
Delaware	1,217	1,358	1,221	1,155	957	1,044
District of Columbia	0	0	0	0	0	0
Florida	6,625	6,066	5,978	5,530	5,554	5,734
Georgia	10,125	13,754	14,404	11,965	13,104	11,723
Hawaii	0	0	0	0	0	0
Idaho	2,228	2,093	1,974	1,723	1,385	1,437
Illinois	32,148	26,153	22,453	18,976	17,567	16,750
Indiana	21,374	19,190	17,752	15,434	15,502	15,883
Iowa	7,055	7,643	7,221	6,884	6,339	5,957
Kansas	8,892	8,446	7,334	6,188	7,328	8,167
Kentucky	6,970	5,767	5,108	4,052	4,043	3,903
Louisiana	89,418	87,933	74,882	68,000	69,899	68,123
Maine	125	131	114	120	111	102
Maryland	5,800	5,245	4,790	4,682	4,709	4,703
Massachusetts	2,620	2,919	3,184	2,832	2,782	2,544
Michigan	19,149	16,297	13,650	12,624	11,841	12,084
Minnesota	7,596	7,834	6,820	5,986	6,111	5,924
Mississippi	8,790	9,223	8,932	7,789	8,689	7,678
Missouri	6,612	5,379	5,230	4,282	4,203	4,096
Montana	1,070	1,061	1,084	843	685	594
Nebraska	2,175	2,058	1,428	2,680	2,208	2,662
Nevada	646	768	674	631	700	627
New Hampshire	179	157	256	200	153	157
New Jersey	6,897	6,758	7,852	7,499	6,774	6,174
New Mexico	1,943	1,690	1,491	1,397	1,589	1,294
New York	10,813	8,467	7,488	7,157	6,523	6,335
North Carolina	5,036	7,736	7,689	6,442	6,814	6,116
North Dakota	484	482	439	291	223	238
Ohio	28,523	24,562	22,017	18,720	18,830	17,728
Oklahoma	17,255	15,500	15,821	13,959	14,811	16,539
Oregon	4,090	4,015	3,914	3,657	3,588	3,280
Pennsylvania	21,766	20,721	19,022	17,914	18,196	17,642
Rhode Island	310	279	400	412	461	325
South Carolina	4,052	6,988	7,407	6,317	7,320	6,703
South Dakota	491	472	454	316	309	300
Tennessee	9,399	9,190	9,017	8,109	8,288	8,002
Texas	170,883	154,501	144,846	151,964	157,335	156,422
Utah	3,784	3,015	2,745	2,510	2,510	1,949
Vermont	119	203	179	115	101	96
Virginia	3,419	4,647	4,633	4,437	4,330	4,389
Washington	6,863	6,642	6,344	6,024	5,427	5,921
West Virginia	4,694	4,190	4,289	4,156	3,911	3,851
Wisconsin	15,030	11,861	9,475	7,388	7,328	6,674
Wyoming	1,713	1,593	1,497	1,255	1,044	1,012
Total	642,602	603,204	568,180	531,985	539,493	525,048

See footnotes at end of table

Table 24. Natural Gas Deliveries to Industrial Consumers by State (Continued)
 (Million Cubic Feet)

State	June 1989	May 1989	April 1989	March 1989	February 1989	January 1989
Alabama	11,843	12,378	12,704	13,348	12,184	13,025
Alaska	5,573	5,123	5,517	5,618	4,671	4,912
Arizona	1,753	1,887	1,613	1,681	1,613	1,975
Arkansas	9,663	9,751	11,392	13,424	11,511	10,411
California	41,341	42,425	34,434	42,904	28,322	42,725
Colorado	3,456	3,932	4,517	4,657	4,794	4,570
Connecticut	1,480	1,610	1,927	1,929	1,641	1,657
Dolaware	1,332	1,581	1,647	1,218	1,230	1,181
District of Columbia	0	0	0	0	0	0
Florida	6,021	6,725	6,379	7,003	6,746	7,124
Georgia	12,573	12,878	13,035	14,086	11,824	13,045
Hawaii	0	0	0	0	0	0
Idaho	1,779	2,024	1,995	2,127	1,973	2,165
Illinois	16,046	20,708	22,567	27,758	29,869	27,831
Indiana	16,315	18,391	18,725	21,073	20,547	19,766
Iowa	6,757	6,880	7,837	8,850	8,943	8,980
Kansas	7,904	8,458	8,929	10,005	8,978	9,994
Kentucky	4,596	4,929	5,309	6,273	6,485	6,568
Louisiana	70,236	72,135	70,526	75,115	73,998	77,490
Maine	110	130	130	101	104	95
Maryland	5,102	5,333	6,106	6,932	6,527	6,342
Massachusetts	2,933	3,714	3,350	3,429	2,598	2,682
Michigan	13,442	14,840	17,999	20,718	19,949	20,387
Minnesota	5,549	5,857	6,607	8,147	7,329	7,720
Mississippi	8,323	8,080	8,487	7,083	7,554	9,162
Missouri	4,321	4,759	5,393	6,140	6,328	5,938
Montana	658	678	756	766	756	950
Nebraska	2,574	2,754	2,721	3,201	3,001	3,082
Nevada	625	647	649	623	582	686
New Hampshire	198	239	259	144	141	158
New Jersey	6,996	7,213	7,499	8,045	6,167	6,898
New Mexico	1,313	1,765	1,527	1,303	1,487	1,911
New York	6,930	6,790	8,376	9,782	8,752	9,452
North Carolina	6,812	7,299	7,624	7,217	6,588	7,256
North Dakota	305	362	383	426	403	488
Ohio	19,118	21,669	25,018	27,485	27,034	27,500
Oklahoma	14,439	13,217	14,003	15,565	14,199	14,874
Oregon	3,102	3,501	3,490	4,052	3,268	3,793
Pennsylvania	18,101	20,570	20,953	23,120	22,363	22,158
Rhode Island	440	515	462	351	325	345
South Carolina	7,174	6,823	6,577	6,194	4,668	4,311
South Dakota	363	373	418	447	493	525
Tennessee	8,403	7,933	9,304	9,354	9,728	10,133
Texas	147,747	140,214	144,112	139,485	139,004	142,377
Utah	2,599	2,518	2,718	3,088	3,153	3,373
Vermont	122	140	187	211	193	234
Virginia	5,132	4,832	6,248	5,474	4,980	5,240
Washington	5,357	5,834	5,962	6,494	5,992	6,379
West Virginia	3,584	4,038	4,134	4,053	4,339	4,705
Wisconsin	7,528	8,609	10,971	13,630	14,915	14,029
Wyoming	1,107	1,254	1,238	1,374	1,448	1,683
Total	529,173	544,317	562,716	601,503	569,695	598,283

Revised Data

Notes and Sources: See the last page of this section.

**Table 25. Natural Gas Deliveries to Electrical Utility^a Consumers by State
(Million Cubic Feet)**

State	YTD 1990	YTD 1989	YTD 1988	August 1990	July 1990	June 1990
Alabama	2,593	1,240	2,108	473	520	542
Alaska	22,044	21,372	19,624	2,787	2,819	2,649
Arizona	20,641	34,031	19,905	1,908	3,813	4,130
Arkansas	21,073	20,762	16,764	4,976	6,019	4,491
California	309,426	327,209	415,879	57,965	59,280	40,590
Colorado	3,670	6,060	5,422	694	503	518
Connecticut	2,081	1,715	1,257	1,157	681	72
Delaware	7,527	5,297	2,470	1,867	1,279	1,081
District of Columbia	0	0	0	0	0	0
Florida	124,813	128,331	119,052	18,275	18,277	14,856
Georgia	1,158	553	1,359	572	222	204
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	5,889	5,081	4,453	1,127	1,077	1,125
Indiana	4,013	2,595	1,965	1,009	202	243
Iowa	2,027	1,568	4,689	407	373	440
Kansas	19,190	15,162	15,137	4,255	5,052	4,052
Kentucky	193	277	371	22	25	26
Louisiana	175,262	156,402	182,607	32,495	33,089	32,409
Maine	0	0	0	0	0	0
Maryland	9,665	13,998	4,131	4,259	2,055	1,147
Massachusetts	35,570	31,551	16,796	8,056	7,320	4,901
Michigan	14,849	14,147	10,619	1,967	1,772	2,211
Minnesota	3,329	2,982	3,892	720	658	467
Mississippi	40,071	31,747	25,438	10,479	10,831	4,612
Missouri	2,162	932	1,390	1,174	304	395
Montana	254	227	184	52	29	48
Nebraska	1,713	1,703	1,450	334	144	239
Nevada	17,760	15,715	7,767	3,087	3,731	2,754
New Hampshire	0	18	41	0	0	0
New Jersey	28,765	45,072	46,809	10,181	7,332	3,853
New Mexico	18,575	17,850	14,715	2,763	3,011	3,366
New York	135,168	130,950	118,676	26,558	23,069	20,603
North Carolina	1,665	1,115	826	351	404	390
North Dakota	0	0	0	0	0	0
Ohio	658	648	623	279	73	80
Oklahoma	117,339	122,086	124,998	20,117	19,293	17,968
Oregon	4,780	5,587	0	1,674	1,375	0
Pennsylvania	1,530	2,907	1,975	234	247	181
Rhode Island	3,336	1,430	186	1,184	602	403
South Carolina	4,294	1,844	2,276	2,020	1,798	404
South Dakota	96	115	220	59	9	24
Tennessee	459	5	220	113	223	113
Texas	691,094	708,293	732,170	119,334	106,069	122,624
Utah	496	464	181	2	7	81
Vermont	449	0	0	174	99	55
Virginia	2,698	3,658	1,029	1,019	980	660
Washington	105	7,813	1,734	12	69	1
West Virginia	97	75	58	4	9	7
Wisconsin	1,680	1,426	1,827	241	218	284
Wyoming	43	49	110	5	5	6
Total	1,860,295	1,892,001	1,933,394	346,438	324,965	295,305

See footnotes at end of table

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

State	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	318	288	213	130	109	1,707
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	2,612	745	617	973	640	29,462
California	31,820	34,310	31,463	24,796	29,203	517,700
Colorado	469	375	499	258	354	8,375
Connecticut	168	0	1	1	1	3,291
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	91	2,402
Kansas	2,071	925	1,121	819	895	18,741
Kentucky	12	26	36	32	14	328
Louisiana	21,448	16,432	16,420	11,415	11,554	227,082
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	376	311	348	206	243	4,321
Mississippi	3,585	3,331	3,071	2,016	2,146	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	54,778
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	100,463	71,271	66,922	46,978	57,433	1,023,793
Utah	122	130	153	0	1	636
Vermont	49	46	3	2	21	37
Virginia	26	19	0	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	6	5	5	5	85
Total	239,415	196,830	182,435	131,273	143,634	2,767,903

See footnotes at end of table.

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

State	December 1989	November 1989	October 1989	September 1989	August 1989	July 1989
Alabama	152	83	113	119	130	102
Alaska	2,711	2,981	2,849	2,835	2,777	2,616
Arizona	3,252	4,774	3,436	5,313	5,758	7,551
Arkansas	1,864	2,656	2,388	1,792	4,877	3,422
California	26,365	44,914	61,601	57,614	53,074	61,693
Colorado	659	473	659	526	432	462
Connecticut	1	19	858	700	141	5
Delaware	359	369	940	1,034	1,355	1,185
District of Columbia	0	0	0	0	0	0
Florida	9,698	13,249	16,371	19,164	19,183	19,071
Georgia	37	18	52	24	33	156
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	648	450	336	452	646	794
Indiana	550	431	270	228	129	260
Iowa	117	116	363	239	201	244
Kansas	923	713	641	1,303	4,252	4,247
Kentucky	21	3	16	11	18	86
Louisiana	13,132	14,228	21,027	22,293	26,898	26,452
Maine	0	0	0	0	0	0
Maryland	250	377	3,079	1,480	2,406	1,876
Massachusetts	6	1,522	8,538	6,832	5,808	7,075
Michigan	1,187	1,063	881	1,503	1,316	1,921
Minnesota	221	396	366	357	640	694
Mississippi	2,485	2,099	4,068	4,529	6,883	6,241
Missouri	104	56	73	78	176	229
Montana	31	28	35	14	29	25
Nebraska	71	357	295	167	189	392
Nevada	1,291	1,610	2,048	2,545	3,484	3,328
New Hampshire	0	0	1	5	6	4
New Jersey	724	1,521	2,901	4,558	7,203	9,002
New Mexico	1,814	2,223	2,702	2,775	2,592	2,905
New York	3,242	10,283	18,102	19,425	21,814	22,458
North Carolina	105	118	88	246	237	286
North Dakota	0	0	0	0	0	0
Ohio	168	41	63	64	189	154
Oklahoma	14,601	12,468	13,771	15,095	18,485	17,523
Oregon	2,185	1,747	1,877	1,546	274	946
Pennsylvania	456	256	164	240	288	399
Rhode Island	0	68	407	242	436	398
South Carolina	107	179	198	377	371	550
South Dakota	3	14	1	1	6	39
Tennessee	0	11	0	2	5	0
Texas	79,807	65,143	80,672	89,939	114,347	110,323
Utah	93	77	2	0	0	1
Vermont	1	36	0	0	0	0
Virginia	19	35	32	51	252	779
Washington	241	39	6	221	289	1,669
West Virginia	20	6	16	7	5	9
Wisconsin	246	127	173	105	166	325
Wyoming	9	6	17	5	6	6
Total	169,975	187,381	252,494	266,052	307,804	318,005

See footnotes at end of table.

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

State	June 1989	May 1989	April 1989	March 1989	February 1989	January 1989
Alabama	249	205	93	100	157	104
Alaska	2,366	2,488	2,527	2,773	2,746	3,079
Arizona	4,713	4,387	6,186	2,632	1,129	1,673
Arkansas	2,153	1,300	3,384	3,853	1,450	323
California	42,285	28,043	36,696	37,880	36,214	31,324
Colorado	264	474	787	574	1,202	1,865
Connecticut	232	761	463	112	0	1
Delaware	560	145	809	737	389	117
District of Columbia	0	0	0	0	0	0
Florida	18,550	18,055	16,129	14,914	10,794	11,649
Georgia	160	42	70	46	15	31
Hawaii	0	0	0	0	0	0
Idaho	0	0	0	0	0	0
Illinois	1,081	673	404	486	532	465
Indiana	60	464	412	424	401	445
Iowa	183	199	181	246	132	182
Kansas	2,338	989	986	793	764	793
Kentucky	50	26	28	15	25	29
Louisiana	24,374	24,177	15,948	11,150	11,604	10,799
Maine	0	0	0	0	0	0
Maryland	2,454	2,518	3,410	1,134	69	131
Massachusetts	6,054	5,133	5,279	2,050	54	98
Michigan	1,727	1,844	2,015	1,535	1,911	1,878
Minnesota	326	195	314	285	263	265
Mississippi	5,083	5,984	3,022	2,482	1,076	976
Missouri	172	110	74	59	68	44
Montana	20	30	24	37	34	28
Nebraska	113	89	428	189	249	54
Nevada	2,012	1,890	2,147	1,359	692	803
New Hampshire	3	1	0	1	2	1
New Jersey	9,075	5,522	5,913	5,930	1,360	1,067
New Mexico	2,276	2,280	2,349	2,078	1,679	1,691
New York	21,761	22,442	20,996	14,860	4,189	2,430
North Carolina	344	82	36	42	35	53
North Dakota	0	0	0	0	0	0
Ohio	159	39	33	22	29	23
Oklahoma	14,333	18,549	15,212	12,633	12,840	12,511
Oregon	2,086	335	1,896	0	0	0
Pennsylvania	367	33 ^c	324	516	411	267
Rhode Island	276	235	85	0	0	0
South Carolina	653	87	86	66	27	4
South Dakota	0	11	8	49	1	1
Tennessee	0	0	0	0	0	0
Texas	87,945	97,663	82,601	78,761	76,466	60,127
Utah	2	107	136	134	80	4
Vermont	0	0	0	0	0	0
Virginia	1,189	770	601	20	16	31
Washington	134	0	916	3,162	1,640	3
West Virginia	11	13	5	9	19	4
Wisconsin	158	122	94	191	201	169
Wyoming	7	6	6	3	4	11
Total	258,343	248,869	233,116	209,343	170,969	145,552

^a Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater
 Notes and Sources. See the last page of this section

**Table 26. Natural Gas Deliveries to All Consumers by State
(Million Cubic Feet)**

State	YTD 1990	YTD 1989	YTD 1988	August 1990	July 1990	June 1990
Alabama	148,543	151,416	151,570	13,969	14,087	13,742
Alaska	75,456	86,452	87,301	8,143	8,293	8,213
Arizona	75,864	87,327	76,494	5,827	8,052	8,669
Arkansas	146,883	155,948	135,858	16,100	17,226	15,240
California	1,203,108	1,178,369	1,224,815	138,633	R 151,196	R 129,484
Colorado	156,549	156,157	149,567	10,672	8,912	11,863
Connecticut	63,036	63,134	60,007	5,643	5,141	4,600
Delaware	27,182	23,966	21,044	3,537	2,810	2,873
District of Columbia	21,298	23,658	23,309	1,034	1,033	1,301
Florida	217,819	212,319	207,993	30,142	28,321	25,301
Georgia	199,439	198,401	211,571	18,635	16,164	17,686
Hawaii	1,838	1,810	1,776	220	244	230
Idaho	23,779	27,394	24,777	1,898	1,860	2,085
Illinois	563,128	621,313	641,827	34,616	R 35,602	36,454
Indiana	288,999	294,062	299,247	22,720	20,886	R 22,392
Iowa	146,653	148,104	159,370	9,659	9,538	12,264
Kansas	193,171	180,547	190,063	20,047	22,933	18,605
Kentucky	98,249	106,791	107,220	7,349	6,853	R 7,621
Louisiana	862,935	791,429	774,244	120,885	113,170	R 119,404
Maine	2,576	2,432	2,157	222	219	233
Maryland	116,274	131,646	118,997	11,612	9,342	9,305
Massachusetts	176,176	172,264	150,267	17,841	15,791	R 15,664
Michigan	466,901	503,644	503,418	28,723	26,008	31,054
Minnesota	175,415	189,398	187,204	11,919	11,393	R 12,209
Mississippi	152,133	126,804	120,251	22,317	22,463	16,125
Missouri	165,624	175,665	175,330	10,121	9,425	R 10,731
Montana	23,928	27,245	24,616	1,403	R 1,317	R 1,791
Nebraska	73,218	81,251	84,205	5,832	R 7,901	R 4,731
Nevada	44,485	43,006	34,090	5,392	5,808	4,980
New Hampshire	9,428	9,676	9,059	537	454	663
New Jersey	270,716	314,061	301,431	26,623	23,475	20,587
New Mexico	68,614	69,212	67,338	5,894	6,065	6,823
New York	572,568	578,705	560,635	52,548	49,184	R 51,251
North Carolina	99,895	106,460	98,237	9,631	8,556	8,593
North Dakota	15,104	17,138	15,746	743	743	917
Ohio	467,642	508,427	525,305	27,883	28,199	33,209
Oklahoma	315,046	318,544	321,413	38,733	37,784	35,066
Oregon	68,761	64,470	54,348	8,803	8,072	5,513
Pennsylvania	409,166	437,760	430,978	28,860	27,732	R 32,150
Rhode Island	23,983	23,394	21,793	2,361	1,686	R 1,736
South Carolina	84,227	77,085	76,275	12,991	11,854	8,296
South Dakota	15,340	16,921	16,869	922	878	1,065
Tennessee	2,004	2,005	136,252	11,837	11,560	11,557
Texas	2,360,105	2,152,920	2,121,876	317,713	R 303,870	R 328,025
Utah	63,071	66,931	63,684	4,070	4,066	R 5,263
Vermont	4,707	4,135	3,759	573	393	354
Virginia	107,156	115,436	105,916	10,988	10,696	9,381
Washington	100,624	109,634	98,604	8,186	8,781	10,130
West Virginia	67,610	72,920	67,898	5,479	5,583	R 6,036
Wisconsin	197,513	219,017	212,792	12,562	11,770	12,943
Wyoming	25,980	24,877	24,913	2,049	2,173	2,524
Total	11,391,922	11,407,290	11,283,717	1,175,096	R 1,145,561	R 1,156,928

See footnotes at end of tables

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

State	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	15,431	18,804	20,992	22,008	29,510	225,124
Alaska	7,443	9,669	11,294	11,396	11,005	127,414
Arizona	7,823	8,217	11,338	12,737	13,201	127,177
Arkansas	15,004	17,976	19,217	20,492	25,628	228,392
California	R 124,015	R 146,725	R 153,355	R 173,197	R 186,503	1,799,042
Colorado	16,475	21,249	26,753	28,646	31,979	218,766
Connecticut	5,934	8,758	10,146	10,969	11,845	94,484
Delaware	2,757	3,103	3,996	3,688	4,418	34,919
District of Columbia	1,809	2,928	3,801	4,084	5,308	33,174
Florida	28,557	27,047	27,004	24,248	27,199	310,493
Georgia	20,254	23,939	30,243	32,224	40,294	309,970
Hawaii	220	223	236	233	232	2,694
Idaho	2,507	2,721	3,832	4,297	4,579	40,679
Illinois	51,721	75,155	96,004	109,304	124,272	978,413
Indiana	R 29,847	R 38,920	R 46,290	R 48,949	R 58,995	453,526
Iowa	15,022	19,884	23,734	25,289	31,263	215,294
Kansas	20,564	22,971	25,637	27,982	34,432	253,952
Kentucky	8,891	12,994	15,390	18,158	20,993	165,562
Louisiana	R 111,392	98,450	99,973	94,119	105,542	1,209,158
Maine	293	464	336	397	412	3,672
Maryland	9,751	15,199	18,292	18,667	24,106	187,512
Massachusetts	20,964	26,204	24,737	24,645	30,330	247,205
Michigan	43,535	63,445	82,547	88,529	103,060	749,612
Minnesota	16,009	22,877	30,168	33,342	37,498	287,891
Mississippi	15,981	16,271	17,189	17,658	24,129	188,597
Missouri	R 14,453	22,216	26,388	29,842	42,448	256,105
Montana	R 2,602	R 3,163	R 4,037	4,502	5,113	41,575
Nebraska	6,303	9,573	11,297	13,009	14,772	115,293
Nevada	4,824	7,924	5,958	6,097	6,502	62,950
New Hampshire	986	1,398	1,514	1,771	2,105	13,925
New Jersey	23,443	37,630	44,060	42,727	52,171	452,476
New Mexico	7,364	8,517	10,353	10,968	12,630	101,126
New York	R 57,940	R 77,692	R 96,271	R 90,758	R 96,924	839,957
North Carolina	10,222	12,819	14,989	14,939	20,146	156,105
North Dakota	1,420	2,178	2,597	3,045	3,461	24,959
Ohio	44,159	63,963	81,615	89,597	99,017	799,852
Oklahoma	33,875	37,097	39,049	42,102	51,340	468,488
Oregon	6,211	6,683	9,407	13,171	10,901	99,448
Pennsylvania	37,739	57,116	67,026	70,792	87,751	649,804
Rhode Island	2,757	3,491	3,671	3,605	4,676	33,821
South Carolina	8,199	9,234	10,456	9,845	13,352	114,237
South Dakota	1,363	2,058	2,639	3,045	3,370	25,263
Tennessee	R 15,436	R 16,766	R 18,949	R 20,782	R 28,889	203,588
Texas	R 323,834	R 289,948	R 278,566	R 232,032	R 286,117	3,225,961
Utah	6,030	7,194	10,936	12,582	12,930	96,288
Vermont	456	620	704	720	887	6,145
Virginia	9,492	13,085	15,940	16,400	21,174	167,450
Washington	11,129	11,900	15,628	17,596	17,474	158,420
West Virginia	6,674	8,981	10,223	10,739	13,895	110,452
Wisconsin	19,102	25,091	34,954	37,755	43,336	326,613
Wyoming	2,840	3,385	3,997	4,278	4,734	36,633
Total	R 1,249,073	R 1,440,735	R 1,623,726	R 1,657,955	R 1,942,848	17,079,657

See footnotes at end of tables.

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

State	December 1989	November 1989	October 1989	September 1989	August 1989	July 1989
Alabama	24,040	19,291	16,211	14,167	14,159	14,233
Alaska	11,296	10,594	9,762	9,311	9,192	9,388
Arizona	11,883	10,755	7,901	9,308	9,768	11,824
Arkansas	23,178	19,551	17,248	12,466	16,364	16,153
California	163,384	149,088	158,974	149,227	139,259	142,104
Colorado	24,416	17,069	11,804	9,320	10,121	8,876
Connecticut	12,527	7,666	6,370	4,785	3,988	3,870
Delaware	3,290	2,506	2,618	2,539	2,634	2,549
District of Columbia	4,689	2,189	1,430	1,207	1,246	1,199
Florida	21,767	23,157	25,431	27,819	27,722	28,004
Georgia	40,687	29,715	23,123	18,044	18,289	17,278
Hawaii	224	217	222	220	215	228
Idaho	4,641	3,644	2,737	2,264	1,779	1,897
Illinois	160,338	97,901	59,725	39,136	32,963	33,688
Indiana	65,183	42,379	30,067	21,834	20,158	20,615
Iowa	26,682	17,409	12,939	10,160	9,300	9,039
Kansas	28,272	18,944	13,661	12,528	18,079	17,624
Kentucky	26,673	15,238	10,204	6,656	6,389	6,420
Louisiana	115,718	108,321	99,958	93,732	100,137	98,136
Maine	490	305	244	202	181	165
Maryland	21,772	12,553	12,223	9,318	10,127	9,789
Massachusetts	25,714	15,583	19,281	14,363	13,168	14,351
Michigan	108,871	64,815	43,380	28,901	25,582	26,627
Minnesota	41,593	28,061	17,333	11,500	11,030	11,119
Mississippi	18,242	14,605	14,981	13,966	17,102	15,502
Missouri	38,207	19,591	13,148	9,493	8,891	9,162
Montana	5,400	4,052	3,010	1,867	1,530	1,375
Nebraska	13,739	8,805	5,804	5,693	7,645	7,513
Nevada	5,986	5,035	4,380	4,542	5,467	5,276
New Hampshire	1,922	998	779	549	426	471
New Jersey	57,310	33,144	25,984	21,978	23,275	25,289
New Mexico	11,333	8,329	6,283	5,970	6,062	5,941
New York	98,996	63,958	53,391	44,908	45,831	47,273
North Carolina	16,403	13,316	10,958	8,968	9,200	8,621
North Dakota	3,401	2,249	1,302	871	626	721
Ohio	128,237	78,522	51,673	32,994	30,016	28,779
Oklahoma	48,765	35,307	33,690	32,180	36,047	37,100
Oregon	11,524	9,220	7,568	6,666	5,215	5,745
Pennsylvania	88,193	55,008	39,594	29,248	28,658	28,714
Rhode Island	4,068	2,327	2,320	1,711	1,879	1,694
South Carolina	10,035	10,016	9,195	7,906	8,827	8,556
South Dakota	3,633	2,413	1,424	870	733	786
Tennessee	25,403	16,526	13,056	11,000	10,914	10,846
Texas	318,473	249,532	245,758	259,280	290,332	286,332
Utah	12,103	8,045	4,987	4,222	4,091	3,680
Vermont	781	593	406	230	196	193
Virginia	21,385	13,093	9,689	7,847	7,407	8,512
Washington	16,628	13,531	10,055	8,572	8,064	10,263
West Virginia	14,800	9,471	7,416	5,845	5,463	5,387
Wisconsin	47,119	28,957	19,137	12,383	11,213	11,298
Wyoming	4,157	3,296	2,427	1,878	1,542	1,647
Total	1,993,577	1,426,889	1,201,260	1,050,642	1,078,505	1,081,855

See footnotes at end of tables.

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

State	June 1989	May 1989	April 1989	March 1989	February 1989	January 1989
Alabama	15,007	17,145	19,867	24,202	22,867	23,936
Alaska	9,864	10,037	11,215	12,215	12,257	12,284
Arizona	9,509	9,472	11,745	10,092	11,224	13,693
Arkansas	14,576	14,239	20,793	27,976	24,418	21,429
California	131,676	120,879	127,618	156,443	169,917	190,473
Colorado	10,749	14,259	20,019	28,091	32,118	31,924
Connecticut	4,633	6,708	8,981	11,694	11,282	11,978
Delaware	2,330	2,441	3,648	3,801	3,377	3,186
District of Columbia	1,452	2,024	3,298	4,827	4,576	5,036
Florida	27,835	28,267	26,799	27,296	22,420	23,976
Georgia	18,123	20,531	24,237	28,898	35,726	35,319
Hawaii	223	228	225	224	230	237
Idaho	2,439	2,800	3,431	4,489	5,214	5,345
Illinois	35,615	55,098	79,159	118,072	136,317	130,401
Indiana	22,109	29,809	37,702	52,051	56,255	55,363
Iowa	10,382	13,237	19,394	28,239	29,184	29,329
Kansas	14,992	16,543	21,865	29,617	31,200	30,627
Kentucky	7,622	9,882	13,496	19,127	22,420	21,435
Louisiana	98,380	100,883	93,512	103,035	97,447	99,899
Maine	199	285	357	414	415	416
Maryland	11,391	13,872	19,134	23,499	21,175	22,659
Massachusetts	15,191	20,103	25,879	29,653	26,152	27,767
Michigan	30,927	47,249	70,614	98,133	99,766	104,746
Minnesota	11,412	15,554	23,643	36,354	40,262	40,024
Mississippi	15,074	16,294	15,111	16,054	15,163	16,504
Missouri	10,466	13,461	21,904	35,199	38,975	37,607
Montana	1,836	2,361	3,653	5,188	5,492	5,810
Nebraska	5,581	6,459	9,341	14,384	15,985	14,343
Nevada	4,276	4,370	5,002	5,472	6,370	6,773
New Hampshire	599	1,000	1,495	1,842	1,799	2,044
New Jersey	27,259	30,869	42,019	57,353	52,128	55,869
New Mexico	5,710	6,674	7,895	10,102	12,361	14,467
New York	50,801	65,178	83,829	101,967	90,072	93,754
North Carolina	9,744	11,302	14,430	17,829	16,295	19,039
North Dakota	950	1,375	2,449	3,417	3,662	3,938
Ohio	30,962	48,427	70,110	91,556	108,092	100,485
Oklahoma	32,218	36,408	37,865	46,669	47,207	45,030
Oregon	7,128	6,168	9,164	10,164	10,577	10,309
Pennsylvania	31,244	44,995	59,585	78,507	81,785	84,272
Rhode Island	1,762	2,538	3,230	4,065	3,986	4,240
South Carolina	9,186	8,884	10,028	11,685	9,659	10,260
South Dakota	978	1,359	2,238	3,387	3,813	3,627
Tennessee	11,667	12,682	17,669	23,695	24,717	25,415
Texas	254,648	258,605	258,245	268,556	278,827	257,375
Utah	4,836	5,494	7,666	11,289	14,899	14,976
Vermont	248	367	613	809	807	902
Virginia	10,164	10,928	16,322	20,257	20,498	21,348
Washington	8,843	9,851	14,176	20,809	19,853	17,775
West Virginia	5,476	7,791	9,788	12,048	13,244	13,723
Wisconsin	13,476	20,487	29,730	42,939	45,710	44,164
Wyoming	1,998	2,524	3,276	4,086	4,830	4,974
Total	1,063,769	1,208,396	1,443,464	1,797,771	1,863,027	1,870,503

R Revised Data.

Notes and Sources: See the last page of this section.

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

State	YTD 1990	YTD 1989	YTD 1988	August 1990	July 1990	June 1990	May 1990	April 1990
Alabama	3.14	2.97	3.19	3.92	2.95	3.09	2.96	2.93
Alaska .....	.33	.33	.33	.35	.33	.33	.33	.33
Arizona	2.71	2.64	2.48	2.66	2.70	2.67	2.39	2.54
Arkansas	2.41	2.47	2.43	2.04	2.29	2.34	2.34	2.36
California	2.89	2.74	2.53	2.87	3.23	2.90	2.83	2.79
Colorado	2.95	3.04	3.08	3.39	3.40	3.46	3.19	2.88
Connecticut	3.57	3.45	3.26	3.59	3.78	3.47	3.10	3.21
Delaware	2.65	2.92	2.78	2.30	2.42	2.44	2.97	2.41
District of Columbia	--	--	--	--	--	--	--	--
Florida	2.58	2.61	2.46	2.16	2.31	2.37	2.45	2.48
Georgia	3.45	3.63	3.74	3.05	3.16	3.24	2.74	3.19
Hawaii	6.80	6.49	6.36	6.28	5.85	6.24	7.29	6.96
Idaho	2.12	2.17	2.29	2.24	2.20	2.77	2.15	2.09
Illinois	3.06	3.02	2.68	2.64	2.57	2.75	2.48	2.85
Indiana	3.13	3.21	3.10	2.78	3.38	3.50	3.12	2.80
Iowa	2.92	2.86	2.98	2.85	2.98	3.06	2.79	2.48
Kansas	2.78	2.07	2.02	2.34	2.27	2.25	2.42	2.87
Kentucky	3.21	3.07	2.97	2.49	2.73	3.05	3.28	3.29
Louisiana	2.93	2.97	3.03	2.58	2.73	2.64	2.84	2.82
Maine	2.99	3.28	2.94	2.67	2.72	3.05	2.79	2.69
Maryland	3.05	3.27	3.09	3.85	3.99	3.99	3.45	2.80
Massachusetts	3.21	3.12	2.91	2.84	2.81	3.28	2.84	2.96
Michigan	3.13	3.31	3.39	2.95	3.14	3.04	2.52	3.11
Minnesota	2.86	2.77	2.85	2.87	3.09	3.22	2.66	2.35
Mississippi	2.90	3.12	3.34	2.65	2.65	2.77	2.64	2.67
Missouri	3.18	2.92	2.86	3.00	3.57	R 3.55	3.40	2.71
Montana	3.60	3.57	3.80	5.21	R 3.37	R 4.26	R 3.71	R 4.03
Nebraska	2.98	2.97	3.07	2.93	3.10	3.20	2.85	2.59
Nevada	2.95	3.46	2.81	2.67	3.00	2.68	2.38	2.64
New Hampshire	3.51	3.27	3.06	2.95	3.32	3.12	2.91	3.06
New Jersey	3.17	3.14	2.97	3.27	3.14	3.11	2.81	2.88
New Mexico	2.67	2.61	2.55	2.00	3.06	3.41	3.40	2.40
New York	3.00	3.01	2.79	2.74	2.77	2.76	2.63	2.92
North Carolina	2.85	3.10	2.82	2.74	2.86	2.93	2.92	2.64
North Dakota	3.40	3.26	3.52	4.23	3.17	4.01	3.75	3.54
Ohio	3.07	3.28	3.16	2.88	3.03	3.12	3.03	2.74
Oklahoma	2.01	2.05	2.24	1.74	1.73	1.86	1.83	2.01
Oregon	2.51	2.65	2.96	2.53	2.61	2.90	2.51	2.55
Pennsylvania	3.45	3.31	3.09	4.17	4.17	3.74	3.51	3.39
Rhode Island	3.70	3.72	3.39	3.84	4.21	R 4.07	3.79	3.32
South Carolina	3.14	3.53	3.39	2.54	2.65	3.15	3.24	3.12
South Dakota	3.24	3.16	3.23	4.04	3.47	3.89	3.31	2.84
Tennessee	2.83	2.76	2.70	2.60	2.89	2.79	2.65	2.54
Texas	3.11	3.31	2.98	3.14	2.88	2.86	2.93	3.01
Utah	3.89	3.55	3.07	4.87	5.27	5.23	4.75	4.55
Vermont	2.86	2.61	2.62	2.76	3.49	3.42	2.84	2.70
Virginia	3.04	3.14	2.78	2.60	3.35	3.68	2.97	2.61
Washington	1.96	2.26	2.36	1.84	1.87	1.83	1.71	1.82
West Virginia	3.66	3.83	3.30	6.19	5.29	4.89	3.95	3.52
Wisconsin	3.36	3.77	3.63	3.99	3.90	3.87	3.22	3.05
Wyoming	3.20	3.02	3.20	4.20	3.28	3.65	4.76	2.97
Total	3.01	3.01	2.88	2.91	3.03	3.00	2.81	2.84

See footnotes at end of table.

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

State	March 1990	February 1990	January 1990	Total 1989	December 1989	November 1989	October 1989	September 1989
Alabama	3.03	3.22	3.15	3.00	3.09	3.14	2.95	2.95
Alaska	33	33	33	33	33	33	33	33
Arizona	2.51	2.60	3.13	2.67	2.72	2.74	2.64	2.82
Arkansas	2.50	2.50	2.55	2.47	2.50	2.45	2.44	2.40
California	2.70	2.87	3.02	2.75	2.85	2.83	2.59	2.82
Colorado	2.79	2.80	2.85	2.96	2.79	2.73	2.94	3.09
Connecticut	3.50	3.79	3.86	3.46	3.34	3.53	3.38	3.89
Delaware	2.91	3.16	2.84	2.82	3.29	2.98	2.09	2.29
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.57	2.98	3.05	2.63	2.90	2.64	2.49	2.41
Georgia	3.62	3.84	3.73	3.54	3.56	3.36	3.08	3.20
Hawaii	7.24	7.27	7.18	6.49	6.65	6.55	6.32	6.34
Idaho	1.92	1.98	2.10	2.17	2.06	2.10	2.35	2.49
Illinois	3.28	3.72	3.91	2.99	3.24	2.92	2.64	2.67
Indiana	3.10	2.93	3.57	3.13	3.24	2.67	3.04	2.94
Iowa	2.62	2.77	3.55	2.80	3.00	2.49	2.32	2.84
Kansas	3.09	2.83	3.09	2.28	3.12	2.70	2.45	1.86
Kentucky	3.34	3.35	3.46	3.01	3.00	3.10	2.74	2.66
Louisiana	2.85	3.20	3.29	2.98	3.01	2.97	2.87	3.12
Maine	3.06	3.59	3.13	3.23	2.71	3.70	2.94	3.41
Maryland	2.60	3.04	2.90	3.20	3.18	3.00	2.78	3.55
Massachusetts	3.28	3.73	3.51	3.20	3.55	3.61	2.89	3.25
Michigan	3.48	3.43	3.36	3.24	2.98	3.11	3.31	3.09
Minnesota	2.60	2.72	3.40	2.72	2.85	2.39	2.41	2.98
Mississippi	2.81	3.11	3.30	3.08	2.96	2.98	3.13	3.20
Missouri	3.16	3.21	3.24	3.00	3.20	3.05	3.03	3.04
Montana	3.21	3.54	3.36	3.43	3.24	3.24	3.03	3.11
Nebraska	2.78	2.76	3.50	2.91	2.90	2.64	2.67	3.15
Nevada	3.14	3.05	3.23	3.33	3.22	3.31	2.71	3.03
New Hampshire	3.44	4.12	4.02	3.28	3.36	3.60	2.90	3.05
New Jersey	3.07	3.47	3.57	3.17	3.41	3.09	3.19	3.12
New Mexico	2.37	2.54	2.72	2.66	2.72	2.60	2.72	3.25
New York	2.98	3.23	3.37	3.07	3.41	3.23	2.80	2.94
North Carolina	2.60	2.94	3.09	3.01	2.98	2.71	2.77	2.91
North Dakota	3.22	3.19	3.27	3.12	3.03	2.83	2.61	2.75
Ohio	3.16	3.16	3.10	3.31	3.32	3.34	3.16	4.36
Oklahoma	2.03	2.14	2.19	2.07	2.29	2.02	1.87	1.79
Oregon	2.43	2.38	2.53	2.67	2.49	3.09	2.60	2.59
Pennsylvania	3.18	3.28	3.36	3.26	3.01	3.14	3.41	3.79
Rhode Island	3.61	3.71	3.68	3.68	3.49	3.51	3.55	4.63
South Carolina	3.20	3.45	3.54	3.46	3.53	3.35	3.22	3.02
South Dakota	2.91	3.02	3.52	3.04	3.00	2.62	2.61	3.11
Tennessee	2.71	2.71	3.19	2.81	3.00	2.81	2.76	2.88
Texas	3.12	3.26	3.33	3.33	3.49	3.58	2.96	3.17
Utah	3.75	3.33	3.37	3.59	3.41	3.53	3.89	4.58
Vermont	2.86	2.77	2.70	2.59	2.47	2.67	2.57	2.67
Virginia	2.67	3.16	3.40	3.13	3.22	3.00	3.06	3.19
Washington	1.84	2.05	2.32	2.20	2.15	1.92	2.20	2.19
West Virginia	3.03	3.54	3.32	3.75	3.27	3.53	3.95	6.88
Wisconsin	3.10	3.38	3.40	3.40	2.28	3.05	3.49	4.31
Wyoming	2.88	2.97	2.85	2.99	2.86	2.86	3.13	3.11
Total	2.95	3.10	3.25	3.01	3.10	2.98	2.84	2.99

See footnotes at end of table.

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

State	August 1989	July 1989	June 1989	May 1989	April 1989	March 1989	February 1989	January 1989
Alabama	3.00	3.09	2.99	2.83	2.83	2.93	3.05	3.05
Alaska .....	.33	.33	.33	.33	.33	.33	.33	.33
Arizona	2.73	2.74	2.69	2.52	2.47	2.52	2.77	2.65
Arkansas	2.45	2.39	2.54	2.43	2.43	2.47	2.49	2.48
California	2.84	2.77	2.68	2.87	2.49	2.53	2.95	2.88
Colorado	3.31	4.16	3.60	3.36	3.19	2.92	2.85	2.83
Connecticut	3.81	4.29	4.21	3.54	3.18	3.24	3.34	3.27
Delaware	2.66	3.53	2.14	2.90	2.38	3.14	3.17	3.95
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.59	2.59	2.63	2.62	2.63	2.49	2.61	2.77
Georgia	3.32	3.93	3.67	3.35	3.10	3.52	3.76	3.95
Hawaii	6.56	6.66	7.15	7.00	6.52	6.83	5.92	5.42
Idaho	2.93	2.62	2.55	2.57	2.41	2.06	2.04	1.95
Illinois	2.71	2.80	2.79	2.60	2.60	2.96	3.34	4.19
Indiana	2.96	3.20	3.38	3.32	3.08	3.04	3.21	3.43
Iowa	3.03	3.06	3.16	2.29	2.74	2.66	2.80	3.20
Kansas	2.36	1.75	1.60	1.68	1.81	2.33	2.40	2.10
Kentucky	2.76	2.92	3.09	3.15	3.12	3.10	3.11	3.19
Louisiana	3.08	3.03	2.95	3.04	2.83	2.82	2.89	3.19
Maine	3.52	3.53	3.35	2.98	3.28	3.20	3.60	2.93
Maryland	3.59	4.53	3.77	3.56	2.85	3.02	3.21	3.26
Massachusetts	3.31	3.15	3.10	3.62	2.43	2.99	3.68	3.20
Michigan	3.01	3.20	3.21	3.19	3.44	3.47	3.59	3.45
Minnesota	3.21	3.35	3.14	2.66	2.40	2.57	2.66	3.00
Mississippi	3.23	3.37	3.22	3.13	3.43	2.90	2.92	3.11
Missouri	2.96	3.26	2.77	3.11	2.93	2.90	2.80	3.00
Montana	2.96	3.35	3.35	3.86	3.84	3.57	3.58	3.59
Nebraska	3.22	3.39	3.34	2.98	2.68	2.86	2.76	3.18
Nevada	3.26	3.51	3.50	4.02	3.12	4.18	2.94	3.45
New Hampshire	3.26	3.21	3.11	2.91	2.91	3.31	3.65	3.38
New Jersey	3.10	3.44	3.16	3.18	2.73	3.01	3.56	3.06
New Mexico	3.07	3.00	3.03	2.54	2.53	2.59	2.56	2.49
New York	3.03	3.07	2.96	2.84	2.87	2.87	3.00	3.24
North Carolina	3.06	3.50	3.04	2.94	2.88	3.07	3.17	3.19
North Dakota	2.92	3.13	3.10	3.11	3.28	3.20	3.33	3.36
Ohio	3.61	3.61	2.49	2.70	3.41	3.06	3.47	3.44
Oklahoma	1.84	1.72	1.89	1.94	2.10	1.99	2.17	2.23
Oregon	3.80	2.57	3.01	2.82	3.00	2.49	2.31	2.55
Pennsylvania	3.91	3.84	4.01	3.37	3.56	3.05	3.06	3.13
Rhode Island	4.91	5.42	4.85	3.91	3.22	3.36	3.47	3.47
South Carolina	3.15	3.29	3.17	3.23	3.23	3.31	3.91	4.32
South Dakota	3.53	3.91	3.47	3.05	2.92	3.09	2.99	3.34
Tennessee	2.92	2.97	3.05	2.86	2.64	2.40	2.70	2.94
Texas	3.42	3.35	3.19	3.22	3.07	3.37	3.41	3.26
Utah	5.02	5.17	4.95	4.09	3.64	3.27	3.23	3.17
Vermont	2.72	2.75	2.70	2.78	2.60	2.47	2.58	2.63
Virginia	3.25	2.95	3.01	2.87	2.59	3.14	3.44	3.48
Washington	2.19	2.32	2.33	2.49	2.13	2.10	2.33	2.27
West Virginia	7.30	7.17	4.88	4.93	3.67	3.30	3.19	3.39
Wisconsin	5.12	4.77	4.52	4.00	3.66	3.21	3.64	3.80
Wyoming	3.04	3.48	3.32	3.00	3.12	2.89	2.96	2.96
Total	3.04	3.08	2.98	2.94	2.83	2.89	3.10	3.17

R Revised Data
— Not Applicable

Notes and Sources See the last page of this section.

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

State	YTD 1990	YTD 1989	YTD 1988	August 1990	July 1990	June 1990	May 1990	April 1990
Alabama	6.30	6.12	6.45	8.60	8.49	8.15	7.11	6.38
Alaska	3.81	3.63	3.39	4.29	4.30	4.10	3.93	3.79
Arizona	6.76	6.90	6.86	9.37	9.10	8.37	7.77	7.02
Arkansas	4.93	4.77	4.73	6.83	6.64	6.24	5.39	4.84
California	5.74	5.60	5.54	5.90	6.07	6.22	5.95	5.07
Colorado	4.52	4.55	4.37	5.95	5.85	5.04	4.55	4.37
Connecticut	8.56	8.20	7.80	10.46	10.09	9.91	9.25	8.39
Delaware	6.39	6.36	5.86	8.35	8.09	7.74	6.84	6.35
District of Columbia	7.50	7.37	6.73	6.97	6.98	6.81	7.37	7.21
Florida	8.17	8.00	7.26	9.92	9.65	9.35	8.97	8.35
Georgia	6.90	6.29	6.31	8.23	8.15	7.78	7.40	6.38
Hawaii	15.78	15.51	15.78	15.11	14.96	15.68	16.32	16.28
Idaho	4.96	5.00	5.61	6.61	6.32	5.47	5.34	5.17
Illinois	5.11	5.04	4.59	6.14	6.15	5.79	5.17	4.88
Indiana	5.74	5.80	5.17	6.54	6.77	6.60	5.98	5.56
Iowa	4.99	4.64	4.79	6.88	6.66	5.61	4.89	4.51
Kansas	4.46	4.05	3.98	5.70	5.64	5.17	4.63	4.40
Kentucky	4.93	4.70	4.43	6.26	6.46	5.84	5.50	4.78
Louisiana	5.84	5.70	5.49	7.72	7.49	7.32	6.11	
Maine	7.78	7.01	7.31	8.37	8.31	7.56	7.77	8.27
Maryland	6.35	6.28	5.78	8.16	7.93	7.40	6.78	6.11
Massachusetts	7.72	7.10	6.31	8.29	7.87	6.95	6.73	8.39
Michigan	4.97	5.26	5.23	6.56	6.65	5.88	5.26	4.86
Minnesota	4.56	4.57	4.60	4.63	5.07	4.77	4.40	4.13
Mississippi	5.18	5.14	5.90	5.52	5.43	5.37	5.57	5.01
Missouri	9.13	4.77	4.72	7.06	6.65	6.11	5.30	5.07
Montana	4.48	4.39	4.37	5.91	4.94	4.62		
Nebraska	4.52	4.45	4.42	5.14	5.26	5.04	4.54	4.23
Nevada	5.60	5.52	5.74	7.35	7.08	6.48	6.35	6.03
New Hampshire	7.42	6.78	6.07	8.53	8.32	7.51	7.08	7.77
New Jersey	6.60	6.45	6.26	8.92	8.59	8.08	7.35	6.69
New Mexico	5.56	5.63	4.96	7.81	7.58	6.95	6.02	5.51
New York	7.31	7.16	6.28	9.80	8.95	8.20	7.58	7.08
North Carolina	6.06	6.58	6.16	8.40	8.33	7.90	6.79	5.83
North Dakota	4.65	4.67	5.21	6.82	6.48	5.45	4.85	4.54
Ohio	5.25	5.44	5.14	6.52	6.48	5.93	5.21	5.28
Oklahoma	4.68	4.34	4.50	6.73	6.66	6.20	5.21	4.62
Oregon	6.23	6.13	6.68	7.39	7.01	6.55	6.40	6.24
Pennsylvania	6.51	6.02	5.64	8.64	8.48	7.57	6.98	6.44
Rhode Island	7.11	7.11	6.49	8.35	8.34	7.34	7.07	
South Carolina	7.06	6.69	6.73	8.88	8.74	8.29	7.32	6.98
South Dakota	5.02	4.84	4.87	6.47	6.81	5.93	5.12	4.72
Tennessee	9.03	4.76	4.55	6.56	6.29	5.90	5.34	4.98
Texas	5.72	5.57	5.25	7.30	7.13	6.86	6.49	5.98
Utah	5.22	5.04	5.06	5.93	5.81	5.30	5.28	5.44
Vermont	5.62	5.60	5.63	7.11	7.00	6.20	5.84	5.58
Virginia	6.56	6.59	5.57	8.78	8.70	7.49	7.14	6.19
Washington	5.13	5.48	5.46	7.06	6.49	5.61	5.28	5.09
West Virginia	6.39	5.54	5.50	8.72	8.30	7.37	6.83	6.31
Wisconsin	5.74	5.68	5.92	6.39	6.59	6.00	5.62	5.54
Wyoming	4.79	4.66	4.42	5.72	5.50	4.79	4.89	4.76
Total	5.75	5.65	5.39	7.04	6.99	6.56	5.97	5.62

See footnotes at end of table

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

State	March 1990	February 1990	January 1990	Total 1989	December 1989	November 1989	October 1989	September 1989
Alabama	6.12	5.92	5.53	6.27	5.88	6.72	7.87	8.52
Alaska	3.71	3.68	3.70	3.63	3.55	3.57	3.71	3.94
Arizona	6.38	6.20	6.17	6.94	6.08	7.26	8.68	9.30
Arkansas	4.81	4.66	4.41	4.85	4.44	5.09	6.15	6.57
California	5.63	5.77	5.72	5.59	5.38	5.12	6.11	6.10
Colorado	4.27	4.46	4.30	4.63	4.49	4.75	5.27	5.81
Connecticut	8.22	8.24	8.17	8.25	7.90	8.22	9.06	10.09
Delaware	6.18	6.15	5.95	6.42	6.16	6.76	7.30	7.48
District of Columbia	8.05	7.84	7.37	7.44	7.31	7.61	8.04	8.60
Florida	8.18	8.01	6.95	8.06	7.18	8.34	9.52	9.39
Georgia	6.75	6.89	6.45	6.24	5.62	6.40	7.28	7.47
Hawaii	16.12	15.79	15.81	15.66	15.89	15.99	15.99	15.98
Idaho	4.83	4.68	4.64	5.05	4.81	5.30	5.67	5.95
Illinois	4.98	5.25	4.75	4.92	4.54	4.56	5.00	5.81
Indiana	5.50	5.54	5.75	5.51	4.84	4.91	5.14	6.16
Iowa	4.62	4.95	5.05	4.70	4.60	4.74	5.12	6.17
Kansas	4.34	4.32	4.21	4.17	4.24	4.42	4.93	5.35
Kentucky	4.61	4.75	4.68	4.68	4.39	4.68	5.12	5.98
Louisiana	5.01	5.90	5.18	5.97	6.01	6.83	7.36	7.63
Maine	8.08	7.95	7.00	7.16	7.08	7.59	7.79	8.59
Maryland	6.17	6.29	5.81	6.30	5.74	6.45	7.29	8.11
Massachusetts	8.12	8.02	7.25	7.16	7.31	7.77	6.31	7.99
Michigan	4.76	4.72	4.66	5.19	4.68	4.94	5.51	6.60
Minnesota	4.20	4.57	4.98	4.57	4.56	4.45	4.69	5.19
Mississippi	5.30	5.25	4.97	5.10	4.73	5.28	5.35	5.47
Missouri	5.02	4.99	4.73	4.84	4.65	5.03	5.49	6.35
Montana	4.33	4.24	4.23	4.37	4.25	4.29	4.35	4.58
Nebraska	4.22	4.44	4.66	4.48	4.37	4.47	4.80	5.22
Nevada	5.46	5.05	5.07	5.55	5.18	5.53	6.39	6.89
New Hampshire	7.63	7.60	6.76	6.85	6.83	7.28	6.86	7.43
New Jersey	6.46	6.43	5.63	6.51	6.19	6.62	7.28	8.28
New Mexico	5.23	5.20	5.10	5.73	5.28	5.88	7.49	7.93
New York	7.05	7.26	6.72	7.22	6.77	7.58	7.98	9.18
North Carolina	5.81	5.77	5.69	6.55	5.99	6.61	7.44	8.68
North Dakota	4.50	4.39	4.38	4.68	4.34	4.65	5.22	5.98
Ohio	4.97	5.06	5.15	5.32	4.90	5.21	5.29	6.28
Oklahoma	4.47	4.38	4.18	4.50	4.35	5.09	5.97	6.34
Oregon	6.06	6.07	6.06	6.19	6.16	6.22	6.76	7.13
Pennsylvania	6.27	6.22	6.07	6.14	6.01	6.48	6.92	7.84
Rhode Island	6.88	6.93	6.83	7.13	6.84	7.10	7.49	8.55
South Carolina	6.92	6.86	6.86	6.73	6.68	6.79	7.02	7.88
South Dakota	4.67	4.82	4.98	4.85	4.83	4.67	5.00	5.73
Tennessee	4.98	4.99	4.70	4.83	4.77	5.09	5.54	6.03
Texas	5.62	5.36	4.96	5.55	5.03	5.65	6.46	6.73
Utah	5.15	5.05	5.08	5.14	5.17	5.39	5.85	5.80
Vermont	5.47	5.45	5.40	5.62	5.43	5.69	5.99	6.88
Virginia	6.02	6.53	6.22	6.59	6.19	6.48	7.09	9.13
Washington	4.91	4.86	4.92	5.49	5.09	5.45	6.25	7.08
West Virginia	6.25	6.19	5.99	5.73	6.17	5.96	5.91	6.86
Wisconsin	5.79	5.81	5.54	5.64	5.38	5.63	5.58	6.21
Wyoming	4.71	4.70	4.64	4.71	4.61	4.77	5.11	5.49
Total	5.58	5.63	5.42	5.64	5.30	5.56	6.06	6.80

See footnotes at end of table.

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

State	August 1989	July 1989	June 1989	May 1989	April 1989	March 1989	February 1989	January 1989
Alabama	8.47	8.32	7.83	6.73	6.01	5.55	5.71	5.65
Alaska	4.19	4.07	3.84	3.72	3.61	3.56	3.51	3.53
Arizona	9.55	9.04	8.36	8.12	7.46	6.65	6.26	6.23
Arkansas	6.79	6.58	6.11	5.75	4.97	4.35	4.31	4.33
California	5.90	6.07	6.09	5.69	4.62	5.21	5.63	5.84
Colorado	6.07	5.70	5.20	4.82	4.54	4.33	4.30	4.30
Connecticut	10.48	10.01	9.94	8.76	8.27	7.78	7.80	7.69
Delaware	7.49	7.96	7.52	6.81	6.33	6.06	6.10	6.06
District of Columbia	6.70	7.11	5.91	7.13	7.50	7.72	7.43	7.49
Florida	9.67	9.41	9.31	8.91	7.92	7.12	7.55	7.26
Georgia	7.97	7.91	7.75	7.03	6.23	6.14	5.81	5.77
Hawaii	16.47	16.37	16.23	15.75	15.49	15.12	14.31	14.67
Idaho	6.50	6.38	5.66	5.56	5.30	4.92	4.71	4.69
Illinois	6.43	5.85	5.60	5.11	4.99	5.08	4.96	4.70
Indiana	6.87	6.88	6.76	6.19	5.86	5.62	5.48	5.72
Iowa	6.63	6.38	5.78	4.77	4.32	4.25	4.49	4.67
Kansas	5.67	5.52	5.26	4.84	4.05	3.80	3.77	3.73
Kentucky	6.12	5.98	5.50	5.03	4.71	4.46	4.49	4.48
Louisiana	7.65	7.23	7.11	6.43	5.78	4.90	5.23	5.40
Maine	8.47	8.06	7.96	7.21	7.01	6.72	6.77	6.71
Maryland	7.80	7.70	7.26	6.57	6.20	6.01	6.06	5.92
Massachusetts	8.20	7.88	7.44	6.69	7.12	7.02	7.06	6.99
Michigan	7.15	6.86	6.37	5.48	5.13	5.02	5.02	5.03
Minnesota	5.40	5.34	5.08	4.64	4.32	4.31	4.50	4.68
Mississippi	5.54	5.49	5.43	5.57	5.14	4.93	5.10	5.02
Missouri	6.73	6.56	6.23	5.35	4.75	4.48	4.47	4.45
Montana	4.67	4.72	4.57	4.52	4.41	4.35	4.33	4.29
Nebraska	5.46	5.34	5.65	4.70	4.30	4.15	4.31	4.45
Nevada	7.22	6.90	6.28	6.12	5.82	5.34	5.09	5.10
New Hampshire	7.94	7.50	7.00	6.32	6.91	6.75	6.75	6.66
New Jersey	8.54	8.27	7.86	6.96	6.44	6.15	6.14	5.95
New Mexico	7.99	7.82	7.42	7.08	5.86	5.21	5.01	5.10
New York	9.36	9.01	8.31	7.11	6.87	7.46	6.66	6.60
North Carolina	8.97	8.71	8.02	6.99	6.80	6.29	6.30	6.17
North Dakota	6.64	6.08	5.51	5.09	4.59	4.44	4.46	4.47
Ohio	6.54	6.55	6.26	5.31	5.42	5.25	5.33	5.33
Oklahoma	6.55	6.35	6.06	5.45	4.60	3.98	3.85	3.88
Oregon	7.21	6.80	6.56	6.36	6.03	5.85	5.85	6.30
Pennsylvania	8.06	7.91	6.77	6.26	5.94	5.78	5.75	5.73
Rhode Island	8.65	8.44	8.25	7.26	7.13	6.98	7.00	6.56
South Carolina	8.19	7.75	7.44	6.64	6.54	6.66	6.63	6.53
South Dakota	6.26	6.01	5.53	5.03	4.65	4.54	4.67	4.86
Tennessee	6.11	5.99	5.50	5.08	4.84	4.53	4.60	4.57
Texas	7.18	6.97	6.80	6.53	5.83	5.21	5.10	5.11
Utah	5.80	5.51	5.17	5.27	5.26	5.01	4.88	4.85
Vermont	7.08	6.96	6.43	5.83	5.54	5.44	5.44	5.41
Virginia	8.78	8.67	8.26	6.52	6.51	6.35	6.38	6.17
Washington	7.52	7.02	6.40	6.12	5.47	5.19	5.15	5.18
West Virginia	7.24	7.07	6.64	5.80	5.48	5.35	5.31	5.29
Wisconsin	6.76	6.43	6.04	5.59	5.57	5.55	5.70	5.61
Wyoming	5.84	5.53	5.04	4.85	4.62	4.52	4.49	4.49
Total	7.07	6.92	6.58	5.90	5.54	5.45	5.38	5.41

^R Revised Data.

Notes and Sources. See the last page of this section.

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

State	YTD 1990	YTD 1989	YTD 1988	August 1990	July 1990	June 1990	May 1990	April 1990
Alabama	5.26	5.11	5.33	5.38	5.50	5.91	5.45	5.20
Alaska	2.62	2.64	2.55	2.41	2.44	2.52	2.55	2.62
Arizona	4.78	4.79	4.95	4.78	4.73	4.66	4.67	4.79
Arkansas	4.39	4.35	4.33	4.75	4.67	4.68	4.46	4.34
California	5.15	4.87	4.86	4.65	4.40	4.37	4.54	5.29
Colorado	3.95	4.02	3.87	4.28	4.24	4.09	3.95	3.89
Connecticut	6.34	5.97	5.67	5.02	5.05	5.15	5.88	6.09
Delaware	5.43	5.38	4.82	5.41	5.67	5.60	5.54	5.43
District of Columbia	5.70	5.28	5.03	4.80	5.12	5.21	5.09	5.41
Florida	4.85	4.85	4.53	4.60	4.64	4.66	4.68	4.72
Georgia	5.78	5.44	5.52	5.37	5.56	5.46	5.49	5.38
Hawaii	11.64	11.34	11.63	10.75	10.76	11.51	11.94	12.36
Idaho	4.07	4.17	4.60	4.66	4.53	4.32	4.34	4.25
Illinois	4.81	4.65	4.22	5.21	5.23	5.26	4.71	4.55
Indiana	4.97	5.03	4.64	4.69	4.85	5.00	5.01	4.90
Iowa	4.15	3.88	4.07	3.93	3.95	3.71	3.73	3.72
Kansas	3.49	3.07	3.03	2.76	2.85	3.04	3.41	3.62
Kentucky	4.53	4.35	4.19	4.68	4.96	4.73	4.68	4.37
Louisiana	5.19	5.06	4.91	5.71	5.42	5.45	5.02	5.28
Maine	6.97	6.20	6.35	6.47	6.43	6.25	6.57	7.50
Maryland	5.46	5.39	5.09	5.35	5.28	5.23	5.07	5.11
Massachusetts	6.31	5.91	6.13	5.29	4.78	4.89	5.27	6.79
Michigan	4.66	4.91	4.91	5.46	5.48	5.07	4.75	4.56
Minnesota	3.97	4.00	4.02	3.18	3.63	3.74	3.56	3.57
Mississippi	4.38	4.82	5.18	3.93	3.98	3.93	4.20	4.14
Missouri	4.60	4.30	4.19	4.60	4.54	4.49	4.45	4.60
Montana	4.30	4.40	4.34	4.73	4.62	4.59	4.36	4.32
Nebraska	3.79	3.76	3.74	3.55	3.53	3.67	3.93	3.57
Nevada	4.21	4.44	4.65	2.90	4.33	4.32	4.39	4.42
New Hampshire	6.83	6.18	5.50	6.39	6.50	6.41	6.23	7.29
New Jersey	5.46	5.26	5.26	5.00	5.05	5.14	5.10	5.41
New Mexico	4.41	3.71	3.21	4.49	4.44	4.71	4.40	4.32
New York	5.59	5.73	5.29	4.88	4.87	5.08	5.54	5.72
North Carolina	4.69	5.18	4.93	4.63	4.63	4.68	4.67	4.48
North Dakota	4.19	4.21	4.56	4.58	4.53	4.33	4.15	4.06
Ohio	4.63	4.98	4.67	4.69	4.32	4.69	4.46	4.67
Oklahoma	3.98	3.90	4.14	3.86	3.96	3.91	3.75	3.99
Oregon	4.89	4.82	5.31	5.11	5.06	4.86	4.83	4.82
Pennsylvania	5.99	5.25	5.01	6.35	6.28	6.39	6.09	5.96
Rhode Island	6.23	6.60	5.83	5.20	4.85	7.09	5.65	5.75
South Carolina	5.59	5.63	5.63	5.13	5.12	5.25	5.24	5.67
South Dakota	4.14	3.99	4.11	4.04	4.39	4.27	4.01	3.90
Tennessee	4.83	4.43	4.35	4.55	4.70	4.74	4.62	4.76
Texas	4.17	4.06	4.13	3.89	3.68	3.71	4.03	4.10
Utah	4.25	4.09	4.05	4.35	4.30	4.10	4.21	4.43
Vermont	4.95	4.73	4.72	4.95	5.41	5.39	4.86	4.75
Virginia	4.77	4.96	4.36	4.61	4.78	4.48	4.40	4.30
Washington	4.20	4.69	4.55	4.17	4.24	4.68	3.87	4.16
West Virginia	6.09	5.05	5.19	7.42	7.45	7.44	6.51	6.16
Wisconsin	4.59	4.53	4.66	4.61	4.59	4.45	4.30	4.42
Wyoming	4.45	4.32	4.04	4.99	4.87	4.72	4.37	4.36
Total	4.85	4.75	4.62	4.55	4.46	4.59	4.62	4.82

See footnotes at end of table

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

State	March 1990	February 1990	January 1990	Total 1989	December 1989	November 1989	October 1989	September 1989
Alabama	5.14	5.20	5.10	5.17	5.23	5.45	5.26	5.37
Alaska	2.71	2.74	2.67	2.57	2.53	2.48	2.38	2.30
Arizona	4.78	4.89	4.83	4.76	4.75	4.60	4.85	4.74
Arkansas	4.39	4.34	4.25	4.38	4.21	4.45	4.78	4.92
California	5.64	5.64	5.56	4.88	5.49	5.13	4.35	4.39
Colorado	3.85	3.95	3.93	4.05	4.04	4.10	4.19	4.31
Connecticut	6.76	6.85	6.95	6.08	6.79	6.30	5.88	5.34
Delaware	5.51	5.36	5.32	5.39	5.35	5.45	5.56	5.48
District of Columbia	6.51	5.73	6.04	5.30	5.61	5.19	5.05	5.08
Florida	4.94	5.23	5.08	4.85	5.00	4.87	4.76	4.69
Georgia	6.10	6.26	5.78	5.46	5.29	5.72	5.78	5.49
Hawaii	12.17	11.94	11.73	11.44	11.52	11.84	11.54	11.65
Idaho	3.96	3.91	3.87	4.20	4.02	4.45	4.46	4.46
Illinois	4.88	5.00	4.58	4.55	4.38	4.20	4.39	4.88
Indiana	4.88	4.94	5.13	4.78	4.37	4.32	4.36	4.70
Iowa	3.97	4.32	4.63	3.91	4.14	3.83	3.64	3.85
Kansas	3.86	3.91	3.87	3.14	3.79	3.24	3.13	2.64
Kentucky	4.39	4.50	4.54	4.35	4.23	4.39	4.43	4.66
Louisiana	4.61	5.40	5.12	5.26	5.67	5.80	5.55	5.64
Maine	7.40	7.42	6.46	6.30	6.43	6.57	6.47	6.68
Maryland	5.68	5.43	5.78	5.43	5.36	5.48	5.78	5.83
Massachusetts	7.06	7.13	6.24	5.87	6.04	6.06	5.05	5.28
Michigan	4.57	4.61	4.55	4.85	4.54	4.66	5.04	5.68
Minnesota	3.69	4.06	4.66	4.00	4.19	3.83	3.74	3.82
Mississippi	4.49	4.62	4.67	4.73	4.55	4.67	4.49	4.55
Missouri	4.69	4.70	4.56	4.34	4.41	4.36	4.44	4.52
Montana	4.23	4.22	4.19	4.36	4.26	4.31	4.28	4.36
Nebraska	3.81	3.79	4.27	3.77	3.99	3.75	3.62	3.58
Nevada	4.43	4.34	4.32	4.44	4.57	4.40	4.44	4.28
New Hampshire	7.30	7.18	6.38	6.23	6.39	6.58	6.00	6.07
New Jersey	5.95	5.62	5.74	5.30	5.65	5.30	5.01	4.94
New Mexico	4.37	4.44	4.39	3.72	3.68	3.53	4.30	4.02
New York	5.70	5.11	5.61	5.62	5.48	5.32	5.16	5.46
North Carolina	4.63	4.67	4.89	5.14	5.16	4.92	4.96	5.06
North Dakota	4.19	4.17	4.18	4.19	4.05	4.12	4.61	3.93
Ohio	4.04	4.96	4.93	4.90	4.73	4.80	4.83	4.92
Oklahoma	4.13	3.99	3.99	3.94	3.96	4.20	4.12	4.11
Oregon	4.86	4.89	4.89	4.80	4.81	4.73	4.74	4.81
Pennsylvania	5.91	5.90	5.90	5.35	5.51	5.61	5.58	5.72
Rhode Island	6.81	6.74	6.63	6.41	6.42	5.83	5.15	7.00
South Carolina	5.66	5.78	5.94	5.65	6.11	5.52	5.32	5.43
South Dakota	3.97	4.15	4.40	3.99	4.14	3.81	3.80	3.99
Tennessee	5.09	4.91	4.84	4.49	4.72	4.52	4.50	4.50
Texas	4.52	4.54	4.56	4.11	4.32	4.25	4.09	4.15
Utah	4.26	4.21	4.23	4.16	4.30	4.43	4.54	4.30
Vermont	4.87	4.99	4.97	4.74	4.96	4.65	4.49	4.71
Virginia	4.89	5.10	4.99	4.93	5.26	4.58	4.67	4.18
Washington	4.24	4.06	4.34	4.68	4.45	4.63	4.45	5.67
West Virginia	6.02	5.93	5.62	5.25	5.59	5.59	5.45	6.20
Wisconsin	4.72	4.79	4.54	4.44	4.23	4.30	4.16	4.54
Wyoming	4.39	4.37	4.38	4.33	4.33	4.36	4.36	4.45
Total	4.93	5.05	4.99	4.74	4.81	4.71	4.61	4.67

See footnotes at end of table

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

State	August 1989	July 1989	June 1989	May 1989	April 1989	March 1989	February 1989	January 1989
Alabama	5.34	5.40	5.28	5.12	5.01	4.94	5.09	5.14
Alaska	2.27	2.59	2.63	2.61	2.60	2.68	2.74	2.65
Arizona	5.03	4.77	4.77	4.99	4.82	4.75	4.81	4.59
Arkansas	4.99	4.98	4.45	4.71	4.59	4.22	4.13	4.16
California	4.57	4.63	4.07	4.28	5.16	5.27	5.25	5.28
Colorado	4.36	4.32	4.19	4.09	4.02	3.96	3.95	3.95
Connecticut	4.98	5.26	5.61	5.54	6.15	6.04	6.29	6.31
Delaware	5.46	5.65	5.61	5.50	5.43	5.33	5.27	5.33
District of Columbia	4.58	4.95	4.64	4.95	5.11	5.74	5.47	5.55
Florida	4.85	4.79	4.86	4.89	4.85	4.83	4.83	4.88
Georgia	5.55	5.62	5.55	5.49	5.38	5.53	5.46	5.27
Hawaii	11.72	11.91	12.05	11.46	11.55	11.09	10.59	10.43
Idaho	4.57	4.50	4.49	4.49	4.45	4.11	4.02	3.99
Illinois	5.19	5.10	4.84	4.62	4.61	4.77	4.66	4.42
Indiana	4.73	4.83	4.98	5.30	5.13	5.03	4.89	5.11
Iowa	3.90	3.83	3.71	3.62	3.61	3.75	3.99	4.17
Kansas	2.62	2.83	2.69	2.84	2.96	3.32	3.34	3.27
Kentucky	4.76	4.63	4.48	4.48	4.30	4.32	4.28	4.30
Louisiana	5.61	5.26	5.47	4.87	5.01	4.72	4.96	5.18
Maine	6.43	6.56	6.46	6.28	6.25	6.12	6.11	6.11
Maryland	5.70	5.85	5.52	5.42	5.47	5.14	5.44	5.34
Massachusetts	4.68	5.28	5.26	5.37	6.04	6.16	6.23	6.21
Michigan	5.99	5.75	5.31	4.90	4.79	4.81	4.84	4.87
Minnesota	3.88	3.93	3.92	3.79	3.80	3.88	4.05	4.26
Mississippi	4.57	4.66	4.63	4.93	4.72	4.80	4.94	4.90
Missouri	4.74	4.79	4.64	4.47	4.22	4.22	4.25	4.21
Montana	4.36	4.46	4.45	4.43	4.41	4.37	4.40	4.39
Nebraska	3.59	3.49	3.78	3.73	3.67	3.74	3.95	4.05
Nevada	4.37	4.47	4.60	4.57	4.63	4.58	4.29	4.27
New Hampshire	6.18	6.16	5.92	5.70	6.31	6.25	6.28	6.20
New Jersey	4.97	4.97	5.08	5.05	5.23	5.40	5.43	5.28
New Mexico	3.81	4.20	3.78	3.50	3.83	3.52	3.64	3.78
New York	5.55	5.51	5.54	5.70	5.86	5.95	5.70	5.66
North Carolina	5.05	5.04	4.95	4.95	5.31	5.28	5.25	5.19
North Dakota	4.54	4.46	4.32	4.31	4.18	4.15	4.18	4.21
Ohio	5.25	5.15	4.98	4.70	5.01	4.86	5.05	5.03
Oklahoma	4.65	4.26	4.18	4.08	4.12	3.86	3.71	3.75
Oregon	4.85	4.79	4.76	4.70	4.72	4.71	4.73	5.14
Pennsylvania	5.64	5.67	5.37	5.26	5.21	5.20	5.20	5.16
Rhode Island	7.11	6.91	7.31	6.63	6.32	6.51	6.77	6.38
South Carolina	5.23	5.38	4.85	5.81	5.51	5.82	5.93	5.73
South Dakota	4.15	4.10	4.05	3.96	3.89	3.87	3.94	4.19
Tennessee	4.54	4.51	4.47	4.20	4.41	4.35	4.51	4.46
Texas	3.80	3.74	3.97	3.96	3.93	4.12	4.30	4.25
Utah	4.23	4.13	4.00	4.17	4.30	4.13	4.03	4.03
Vermont	4.92	5.01	5.13	4.99	4.73	4.70	4.88	4.34
Virginia	4.59	4.52	4.34	4.92	4.81	5.04	5.23	5.17
Washington	4.66	4.77	4.91	4.83	4.70	4.51	4.74	4.67
West Virginia	6.21	6.40	6.10	5.31	5.03	4.87	4.81	4.82
Wisconsin	4.74	4.54	4.40	4.23	4.46	4.50	4.64	4.59
Wyoming	4.45	4.40	4.31	4.35	4.31	4.30	4.31	4.31
Total	4.61	4.65	4.57	4.64	4.77	4.79	4.80	4.81

R = Revised Data.

Notes and Sources: See the last page of this section

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

State	YTD 1990	YTD 1989	YTD 1988	August 1990	July 1990	June 1990	May 1990	April 1990
Alabama	3.04	2.96	3.01	2.74	2.76	2.85	3.01	3.12
Alaska	1.07	1.11	1.04	1.08	1.03	.95	1.18	1.15
Arizona	3.82	3.84	3.76	4.30	4.30	4.23	4.11	3.70
Arkansas	3.00	3.09	3.07	2.75	2.81	2.81	2.84	2.88
California	3.90	3.89	3.71	4.07	3.65	3.64	3.67	3.65
Colorado	2.28	2.50	3.51	2.12	2.17	2.10	2.16	2.28
Connecticut	4.72	4.52	4.08	3.83	3.84	3.96	4.01	4.70
Delaware	3.43	3.46	3.18	3.16	3.32	3.08	3.29	3.04
District of Columbia	—	—	—	—	—	—	—	—
Florida	3.15	3.09	2.83	3.24	2.81	2.91	2.95	2.97
Georgia	3.51	3.67	3.66	2.99	3.09	3.40	3.33	3.56
Hawaii	—	—	—	—	—	—	—	—
Idaho	2.54	2.85	4.12	2.95	2.97	2.87	2.83	2.84
Illinois	4.15	3.86	3.41	3.44	3.85	4.33	4.16	4.05
Indiana	3.86	3.94	3.73	3.07	3.09	3.25	3.49	3.95
Iowa	2.75	2.53	3.19	2.28	2.31	2.29	2.44	2.61
Kansas	2.83	3.01	2.37	2.54	2.57	3.02	2.92	2.49
Kentucky	3.90	3.77	3.43	3.63	3.89	3.68	3.75	3.93
Louisiana	1.99	1.99	1.97	1.67	1.71	1.76	1.80	1.82
Maine	5.15	4.50	4.66	4.97	4.10	4.05	4.22	5.64
Maryland	4.59	4.78	4.24	4.51	4.44	4.55	4.40	4.41
Massachusetts	4.20	4.11	4.24	3.69	2.98	2.91	3.77	4.12
Michigan	4.20	4.31	4.26	4.22	4.48	4.04	4.17	4.11
Minnesota	3.00	2.83	2.77	2.58	2.72	2.66	2.66	2.77
Mississippi	2.48	2.53	2.51	2.23	2.32	2.24	2.34	2.35
Missouri	4.47	4.12	3.80	4.16	3.88	4.25	4.69	4.41
Montana	3.05	2.84	3.00	2.54	2.70	2.88	2.92	2.93
Nebraska	3.01	2.93	2.82	2.66	2.74	2.67	2.47	2.88
Nevada	4.31	5.05	3.89	5.58	4.36	4.12	5.05	4.11
New Hampshire	4.32	4.10	3.71	3.75	3.61	3.37	3.27	4.11
New Jersey	4.19	4.05	3.87	3.45	3.46	3.53	3.64	4.03
New Mexico	3.65	3.09	3.27	3.44	3.39	3.38	3.65	3.87
New York	4.77	4.92	4.46	3.86	4.16	4.36	4.24	4.87
North Carolina	3.36	3.59	3.59	3.07	2.94	3.12	3.19	3.21
North Dakota	3.37	3.38	3.30	2.97	3.00	2.97	2.99	3.09
Ohio	3.97	4.25	4.03	3.73	3.66	3.66	3.70	3.91
Oklahoma	1.70	1.92	1.89	1.75	1.62	1.71	1.71	1.69
Oregon	3.30	3.59	3.72	2.93	2.80	2.89	3.40	3.31
Pennsylvania	4.23	3.86	3.68	4.03	4.13	3.91	4.23	4.22
Rhode Island	5.24	5.18	4.75	4.54	5.03	4.49	4.43	4.77
South Carolina	3.04	3.43	3.42	2.53	2.43	2.86	3.02	3.16
South Dakota	3.26	3.10	3.18	3.12	3.03	2.92	2.97	3.07
Tennessee	3.31	3.35	3.22	2.95	2.91	3.06	3.01	3.27
Texas	2.22	2.26	2.16	1.83	1.92	1.98	1.99	2.09
Utah	3.63	3.28	3.04	3.26	3.28	3.24	3.28	3.48
Vermont	2.95	2.99	3.07	2.28	2.29	2.64	2.72	2.95
Virginia	3.73	3.92	3.14	3.49	3.66	3.42	3.34	3.64
Washington	2.70	2.96	2.98	2.52	2.58	2.47	2.43	2.63
West Virginia	3.34	2.82	2.84	3.01	3.07	3.07	3.17	3.22
Wisconsin	3.66	3.80	4.09	3.25	3.47	3.18	3.34	3.39
Wyoming	3.09	3.79	3.34	3.55	3.27	3.15	3.13	3.18
Total	2.93	2.99	2.93	2.52	2.47	2.55	2.67	2.84

See footnotes at end of table.

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

State	March 1990	February 1990	January 1990	Total 1989	December 1989	November 1989	October 1989	September 1989
Alabama	3.05	3.24	3.45	3.02	3.55	3.00	2.98	2.94
Alaska	1.06	1.08	1.08	1.08	1.06	1.04	.97	.99
Arizona	3.48	3.59	3.66	3.67	4.13	3.07	3.06	3.35
Arkansas	3.17	3.22	3.29	3.09	3.12	3.12	3.06	3.02
California	4.30	4.55	3.84	3.75	3.88	4.72	3.07	3.35
Colorado	2.40	2.41	2.41	2.53	2.65	2.56	2.59	2.53
Connecticut	5.27	5.59	6.00	4.51	5.55	4.41	3.90	3.91
Delaware	3.53	3.82	4.00	3.45	3.70	3.23	3.37	3.39
District of Columbia	--	--	--	--	--	--	--	--
Florida	3.06	3.48	3.65	3.13	3.40	3.22	3.06	3.10
Georgia	3.77	4.21	3.70	3.73	4.13	3.74	3.75	3.55
Hawaii	--	--	--	--	--	--	--	--
Idaho	2.83	2.83	2.43	2.92	2.73	2.76	4.12	3.27
Illinois	4.19	4.17	4.34	3.73	3.70	3.49	3.29	3.41
Indiana	4.19	4.08	4.48	3.89	4.04	3.69	3.59	3.64
Iowa	2.77	3.09	3.49	2.54	3.25	2.58	2.25	2.19
Kansas	2.85	3.00	3.26	3.06	3.27	3.0	3.44	2.75
Kentucky	3.95	3.93	4.01	3.69	3.47	3.56	3.41	3.64
Louisiana	2.20	2.56	2.51	1.97	2.12	1.90	1.81	1.87
Maine	6.35	6.89	5.58	4.57	5.68	4.78	4.11	4.23
Maryland	4.53	4.59	4.86	4.81	5.14	4.78	4.72	4.66
Massachusetts	5.39	5.99	5.42	4.07	5.33	4.18	3.31	3.35
Michigan	4.15	4.22	4.27	4.22	3.83	3.93	4.16	4.49
Minnesota	2.84	3.25	3.67	2.86	3.26	2.85	2.61	2.69
Mississippi	2.51	2.78	2.99	2.54	2.87	2.60	2.45	2.33
Missouri	4.67	4.42	4.62	4.13	4.33	4.07	4.11	4.01
Montana	3.11	3.45	3.63	2.98	3.76	3.84	2.68	2.55
Nebraska	3.03	3.20	3.60	2.92	3.19	2.84	2.73	2.72
Nevada	3.80	4.37	4.04	4.98	4.48	4.98	4.53	6.15
New Hampshire	5.92	6.09	5.54	4.20	6.04	5.14	3.64	3.27
New Jersey	4.42	4.89	5.03	3.98	4.40	3.89	3.45	3.38
New Mexico	4.18	4.27	4.34	3.12	3.20	3.33	3.15	3.01
New York	5.26	5.22	4.94	4.83	5.10	4.61	4.31	3.99
North Carolina	3.45	3.53	3.72	3.64	4.18	3.63	3.59	3.51
North Dakota	3.25	4.13	3.67	3.55	5.13	3.30	3.09	3.18
Ohio	3.88	4.28	4.22	4.19	4.21	4.17	3.97	3.84
Oklahoma	1.83	1.48	1.81	1.97	2.11	1.89	2.15	2.04
Oregon	3.45	3.71	3.66	3.52	3.67	3.41	3.16	3.22
Pennsylvania	4.18	4.39	4.41	3.90	4.1	3.82	3.82	3.94
Rhode Island	5.84	6.23	6.36	5.16	6.17	5.70	4.39	4.35
South Carolina	3.33	3.62	3.93	3.46	4.17	3.54	3.29	3.22
South Dakota	3.19	3.56	3.82	3.09	3.33	3.02	2.87	2.96
Tennessee	3.33	3.70	3.94	3.37	3.71	3.39	3.21	3.23
Texas	2.09	2.64	3.13	2.26	2.68	2.26	2.08	2.02
Utah	3.48	4.93	3.45	3.30	3.38	3.40	3.41	3.18
Vermont	3.43	4.02	3.53	3.01	3.35	3.09	2.87	3.00
Virginia	3.74	4.25	4.03	3.91	4.17	3.68	4.22	3.48
Washington	2.59	2.93	3.12	2.93	3.03	3.06	2.75	2.70
West Virginia	3.49	3.65	3.67	2.92	3.62	3.01	2.72	2.82
Wisconsin	3.81	3.97	3.94	3.73	3.53	3.84	3.58	3.56
Wyoming	2.50	3.24	3.15	3.23	3.07	3.17	3.11	2.91
Total	3.08	3.40	3.52	2.97	3.32	2.98	2.75	2.67

See footnotes at end of table.

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

State	August 1989	July 1989	June 1989	May 1989	April 1989	March 1989	February 1989	January 1989
Alabama	3.04	3.06	2.93	2.88	2.81	2.83	2.98	3.17
Alaska	.94	1.02	1.07	1.06	1.06	1.12	1.26	1.29
Arizona	3.62	3.49	3.41	3.64	3.73	4.49	4.41	4.50
Arkansas	3.09	3.10	2.99	3.05	3.11	3.10	3.14	3.10
California	3.53	3.44	3.31	3.46	4.07	4.36	4.46	4.48
Colorado	2.11	2.47	2.76	2.63	2.56	2.48	2.70	2.54
Connecticut	3.67	4.02	3.82	4.12	4.46	5.08	5.19	5.12
Delaware	3.66	3.26	3.34	3.27	3.26	3.56	3.74	3.82
District of Columbia	--	--	--	--	--	--	--	--
Florida	3.10	3.03	3.15	3.17	3.17	2.91	2.97	3.25
Georgia	3.60	3.71	3.59	3.61	3.48	3.68	3.90	3.74
Hawaii	--	--	--	--	--	--	--	--
Idaho	2.69	2.69	2.87	2.89	2.91	2.90	2.87	2.84
Illinois	3.31	3.50	3.49	3.66	3.81	4.23	4.23	3.74
Indiana	3.32	3.17	2.94	4.06	4.37	4.56	4.06	4.70
Iowa	2.27	2.22	2.25	2.32	2.37	2.45	2.82	3.15
Kansas	3.15	3.18	2.93	3.32	3.08	3.23	2.86	2.44
Kentucky	3.64	3.77	3.67	3.70	3.76	3.85	3.85	3.76
Louisiana	1.90	1.91	1.90	1.82	1.79	2.00	2.30	2.33
Maine	4.09	4.03	4.11	4.21	4.61	4.99	5.00	5.07
Maryland	4.57	4.61	4.60	4.61	4.74	4.87	4.94	4.84
Massachusetts	3.38	3.39	3.34	3.37	4.44	4.32	5.61	5.57
Michigan	4.56	4.72	4.34	4.18	4.19	4.24	4.31	4.36
Minnesota	2.68	2.72	2.59	2.55	2.74	2.79	3.04	3.20
Mississippi	2.38	2.34	2.48	2.41	2.42	2.37	2.83	2.95
Missouri	3.99	4.10	4.09	4.09	4.06	4.15	4.18	4.17
Montana	2.49	1.79	3.02	2.55	2.77	2.85	3.01	3.83
Nebraska	2.76	2.74	2.71	2.69	2.73	2.94	3.29	3.24
Nevada	6.52	6.15	6.70	5.93	4.70	4.65	4.31	3.96
New Hampshire	3.74	3.62	3.48	3.63	3.91	5.14	4.97	5.02
New Jersey	3.44	3.58	3.40	4.24	4.03	4.40	4.54	4.30
New Mexico	2.96	3.56	3.10	2.90	2.91	3.08	--	3.26
New York	4.53	3.97	4.55	4.59	5.01	5.37	5.23	5.05
North Carolina	3.53	3.42	3.47	3.50	3.38	3.61	3.78	3.79
North Dakota	3.19	3.16	3.12	3.17	3.19	3.46	3.62	3.55
Ohio	3.78	3.91	3.84	4.11	4.21	4.26	4.51	4.57
Oklahoma	2.02	2.10	1.92	1.69	1.76	1.85	2.10	1.85
Oregon	3.39	3.42	3.35	3.45	3.37	3.66	4.19	3.56
Pennsylvania	3.83	3.83	3.58	3.77	3.99	3.89	3.95	3.85
Rhode Island	4.29	4.25	4.47	4.62	5.09	5.94	6.29	6.10
South Carolina	3.24	3.13	3.30	3.39	3.22	3.38	4.03	4.12
South Dakota	2.97	2.98	2.91	2.86	2.90	3.10	3.32	3.40
Tennessee	3.20	3.25	3.26	3.24	3.19	3.30	3.58	3.65
Texas	2.12	2.18	2.20	2.28	2.18	2.19	2.38	2.57
Utah	3.98	2.99	2.96	2.98	3.17	3.15	3.11	3.73
Vermont	3.07	3.10	3.14	3.08	2.94	2.77	2.65	3.31
Virginia	4.15	3.88	3.20	3.74	3.28	4.23	4.38	4.46
Washington	2.65	2.70	2.74	2.85	2.93	3.15	3.38	3.18
West Virginia	2.84	2.81	2.82	2.79	2.65	2.88	2.84	2.88
Wisconsin	3.72	3.80	3.32	3.67	3.74	3.82	3.93	3.90
Wyoming	3.41	3.38	3.28	3.24	3.20	3.27	3.28	3.35
Total	2.71	2.70	2.69	2.80	2.91	3.12	3.33	3.39

R Revised Data.

-- Not Applicable.

Notes and Sources See the last page of this section.

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

State	July 1990	June 1990	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	1.97	2.03	1.99	1.97	2.16	2.65	3.11	2.27
Alaska	NA	NA	--	--	--	--	--	1.36
Arizona	2.28	2.30	2.30	2.34	2.25	2.84	3.30	2.32
Arkansas	1.52	1.45	1.51	1.37	1.33	1.94	1.93	1.69
California	2.82	2.93	3.10	3.06	3.02	3.66	3.82	3.04
Colorado	2.21	2.22	2.13	2.13	2.12	2.30	2.37	2.23
Connecticut	2.04	2.13	2.19	--	--	6.51	6.27	2.59
Delaware	2.29	2.13	2.17	3.15	2.95	3.51	3.48	2.73
District of Columbia	--	--	--	--	--	--	--	--
Florida	2.23	1.91	2.19	2.10	2.36	2.63	3.29	2.49
Georgia	2.89	3.29	3.34	3.52	3.73	3.80	3.75	3.23
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--
Illinois	2.77	2.47	2.77	2.99	3.39	3.90	3.48	3.32
Indiana	2.53	2.29	2.35	2.46	2.61	2.82	3.25	2.70
Iowa	2.96	2.68	2.09	3.00	3.46	3.71	4.36	2.69
Kansas	1.60	1.62	1.65	1.97	1.98	2.23	2.33	1.92
Kentucky	2.49	3.12	3.19	3.14	3.65	3.35	3.37	2.73
Louisiana	1.72	1.72	1.65	1.62	1.64	1.73	2.01	1.78
Maine	--	--	--	--	--	--	--	--
Maryland	2.27	2.34	2.53	2.75	3.00	3.38	2.84	2.72
Massachusetts	2.03	2.29	2.29	2.30	2.36	2.75	5.13	2.49
Michigan	.65	.51	.50	.37	.34	.49	.31	.19
Minnesota	1.75	1.95	1.81	1.90	1.92	2.46	3.12	2.16
Mississippi	1.69	1.76	1.76	1.74	1.82	2.14	2.52	1.88
Missouri	2.00	2.26	2.32	2.79	2.48	2.79	3.19	2.50
Montana	3.20	5.18	1.60	1.27	1.51	3.16	1.40	1.38
Nebraska	2.13	2.12	1.67	1.66	1.74	2.68	3.35	2.26
Nevada	2.09	2.05	1.80	1.72	1.73	2.76	3.18	2.17
New Hampshire	--	--	--	--	--	--	--	3.16
New Jersey	2.20	2.13	2.29	2.19	2.59	3.02	3.78	2.54
New Mexico	1.90	1.91	1.84	1.89	1.90	2.14	2.71	2.20
New York	2.05	2.11	2.21	2.31	2.50	2.95	3.47	2.42
North Carolina	NA	NA	--	--	--	--	--	3.57
North Dakota	NA	--	--	--	--	--	--	4.61
Ohio	1.97	3.21	3.28	4.00	3.67	4.10	4.14	3.15
Oklahoma	3.01	3.11	3.06	3.61	3.52	3.62	3.34	3.05
Oregon	NA	--	--	--	--	--	--	--
Pennsylvania	NA	3.02	2.95	2.92	2.86	3.47	3.34	3.58
Rhode Island	1.99	2.02	2.07	2.22	2.35	--	--	2.49
South Carolina	1.69	1.83	3.95	4.70	4.53	4.49	4.37	2.27
South Dakota	NA	NA	--	--	--	--	--	2.62
Tennessee	NA	NA	--	--	--	--	--	2.83
Texas	2.10	2.00	1.96	1.96	2.12	2.46	2.76	2.23
Utah	NA	NA	--	5.04	--	--	--	3.38
Vermont	NA	NA	--	--	--	--	--	--
Virginia	2.06	1.68	--	--	--	--	--	2.57
Washington	NA	NA	--	--	--	--	--	5.19
West Virginia	3.31	6.58	6.45	6.63	5.99	4.82	4.76	4.59
Wisconsin	2.71	2.95	2.95	2.81	2.83	3.40	3.64	3.11
Wyoming	3.26	3.28	3.23	3.24	3.93	3.92	3.88	3.61
Total	2.22	2.16	2.19	2.29	2.37	2.76	3.01	2.43

See footnotes at end of table

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

State	December 1989	November 1989	October 1989	September 1989	August 1989	July 1989	June 1989	May 1989
Alabama	2.68	2.29	2.31	2.05	2.14	2.25	2.23	2.07
Alaska	—	—	—	—	—	—	—	—
Arizona	2.95	2.49	2.26	2.26	2.27	2.31	2.26	2.21
Arkansas	2.21	1.82	1.75	1.62	1.88	1.64	1.54	1.40
California	4.00	3.28	2.87	3.05	3.00	2.86	2.95	3.17
Colorado	2.26	2.78	2.81	2.27	2.37	2.40	2.48	2.47
Connecticut	6.23	2.67	2.56	2.37	2.46	3.11	2.56	2.66
Delaware	3.50	3.01	2.53	2.43	2.72	2.88	3.91	3.01
District of Columbia	—	—	—	—	—	—	—	—
Florida	2.99	2.42	2.52	2.21	2.30	2.59	2.54	2.79
Georgia	3.78	3.67	3.50	3.51	3.49	3.33	2.84	3.39
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	3.32	2.85	2.92	3.33	3.26	2.88	3.61	3.47
Indiana	3.37	2.61	2.23	2.52	2.32	2.38	3.30	2.89
Iowa	3.79	3.30	2.02	2.21	2.85	2.72	2.59	2.24
Kansas	2.35	2.23	2.31	2.05	1.70	1.70	1.75	2.25
Kentucky	3.14	2.84	2.76	2.50	2.61	2.49	2.43	3.10
Louisiana	2.03	1.66	1.69	1.71	1.79	1.86	1.85	1.82
Maine	—	—	—	—	—	—	—	—
Maryland	3.56	3.20	2.61	2.59	2.63	3.02	2.68	2.83
Massachusetts	6.08	2.77	2.45	2.32	2.42	2.46	2.61	2.76
Michigan	2.22	2.25	1.19	1.17	2.0	1.18	1.15	1.18
Minnesota	2.73	2.22	2.11	2.10	2.01	1.94	2.09	2.05
Mississippi	2.45	2.04	1.80	1.77	1.89	1.91	1.93	1.84
Missouri	3.25	2.39	2.42	1.94	2.24	2.40	2.32	2.35
Montana	1.53	1.49	1.25	2.26	1.42	1.62	1.91	1.25
Nebraska	3.14	2.06	1.79	2.23	2.32	2.19	2.50	2.79
Nevada	2.73	2.43	2.24	2.13	2.16	2.10	2.28	2.19
New Hampshire	—	—	—	—	—	—	—	—
New Jersey	2.88	2.93	2.49	2.40	2.43	2.47	2.51	2.64
New Mexico	2.70	2.28	2.12	2.05	2.16	2.27	2.23	2.20
New York	3.17	2.67	2.37	2.20	2.31	2.39	2.45	2.44
North Carolina	—	—	—	—	—	—	—	—
North Dakota	—	4.08	—	—	—	—	4.84	—
Ohio	4.07	3.84	3.85	3.04	3.29	2.73	3.22	2.67
Oklahoma	3.20	3.15	3.32	2.89	2.81	3.08	3.11	3.06
Oregon	—	—	—	—	—	—	—	—
Pennsylvania	3.59	3.63	3.57	3.21	2.93	3.25	3.44	3.80
Rhode Island	—	2.61	2.48	2.34	2.39	2.41	2.56	2.76
South Carolina	2.97	2.44	2.23	2.19	2.19	2.23	2.22	3.96
South Dakota	—	—	—	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	2.56	2.24	2.10	2.07	2.28	2.26	2.19	2.13
Utah	—	—	—	—	—	—	—	—
Vermont	—	—	—	—	—	—	—	—
Virginia	4.4	6.63	7.51	1.45	2.69	2.46	2.37	2.81
Washington	—	—	—	—	—	—	—	—
West Virginia	4.81	5.09	4.48	4.72	4.60	4.60	4.55	4.52
Wisconsin	3.02	3.24	2.78	2.44	3.16	3.14	2.96	3.15
Wyoming	3.61	3.63	3.63	3.42	3.42	3.42	3.41	3.43
Total	2.85	2.56	2.39	2.33	2.38	2.40	2.40	2.39

See footnotes at end of table.

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

State	April 1989	March 1989	February 1989	January 1989	Total 1988	December 1988	November 1988	October 1988
Alabama	2.08	2.21	2.56	2.34	2.15	2.14	2.02	2.07
Alaska	--	--	--	--	1.34	--	--	--
Arizona	2.15	2.09	2.19	2.84	2.32	2.50	2.44	2.42
Arkansas	1.50	1.59	1.47	1.21	1.39	1.10	1.30	1.47
California	2.75	2.89	2.92	3.33	2.93	3.65	3.66	3.18
Colorado	2.18	2.14	2.10	2.07	2.25	2.08	2.77	2.38
Connecticut	2.81	2.87	3.13	3.19	2.24	3.43	2.72	2.72
Delaware	2.61	2.56	2.72	3.28	2.59	3.09	2.76	2.69
District of Columbia	--	--	--	--	--	--	--	--
Florida	2.63	2.28	2.34	2.37	2.12	2.26	2.18	1.70
Georgia	2.76	3.60	3.62	3.35	2.80	3.50	3.16	2.78
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--
Illinois	3.00	3.26	3.96	3.30	3.34	3.36	3.26	3.10
Indiana	2.58	2.41	2.54	2.97	2.60	2.82	2.53	2.59
Iowa	2.61	2.84	3.19	3.49	2.04	3.26	3.03	2.72
Kansas	2.27	2.07	2.27	2.37	2.05	2.09	2.10	1.90
Kentucky	2.98	2.76	2.81	3.07	2.52	3.25	2.83	2.53
Louisiana	1.66	1.59	1.81	1.80	1.70	1.63	1.82	1.73
Maine	--	--	--	--	--	--	--	--
Maryland	2.60	2.64	3.67	3.41	2.71	3.86	3.29	2.52
Massachusetts	2.39	2.55	3.17	5.22	2.29	4.31	2.67	2.84
Michigan .....	.18	.20	.19	.20	.41	.28	1.13	.44
Minnesota	1.78	2.08	2.53	2.87	1.99	2.59	2.07	2.25
Mississippi	1.68	1.67	1.96	2.23	1.90	2.28	1.97	1.93
Missouri	2.36	2.43	2.60	2.56	2.75	2.71	2.38	1.82
Montana	1.38	1.12	1.01	1.18	1.53	1.29	1.72	1.64
Nebraska	2.28	2.36	2.50	2.89	2.56	2.99	2.43	2.27
Nevada	1.72	2.09	2.00	2.15	2.79	2.07	2.61	2.88
New Hampshire	--	--	--	--	2.48	--	--	--
New Jersey	2.58	2.62	3.24	3.08	2.32	3.02	2.74	2.51
New Mexico	1.93	2.02	2.23	2.47	2.19	2.39	2.40	2.21
New York	2.37	2.51	2.78	2.98	2.30	2.99	2.56	2.35
North Carolina	--	--	--	--	3.48	--	--	--
North Dakota	4.20	--	--	--	4.56	--	4.42	4.37
Ohio	3.70	4.25	4.23	4.21	3.51	4.18	4.17	3.83
Oklahoma	2.96	2.98	3.13	3.03	2.92	2.54	3.15	3.01
Oregon	--	--	--	--	--	--	--	--
Pennsylvania	3.78	3.66	3.97	3.81	3.45	4.03	3.78	3.62
Rhode Island	2.73	--	--	--	2.15	--	--	--
South Carolina	2.31	2.26	4.30	3.94	1.86	3.90	3.33	3.49
South Dakota	--	--	--	--	2.33	--	--	--
Tennessee	--	--	--	--	2.46	--	--	--
Texas	2.13	2.14	2.25	2.48	2.16	2.39	2.32	2.13
Utah	--	--	--	--	3.05	--	--	--
Vermont	--	--	--	--	--	--	--	--
Virginia	2.74	1.33	2.34	2.04	2.16	5.06	1.38	4.00
Washington	--	--	--	--	3.15	--	--	--
West Virginia	4.76	4.45	4.31	4.76	3.89	4.76	4.52	4.34
Wisconsin	3.17	3.43	3.52	3.43	3.26	3.62	3.78	3.31
Wyoming	3.45	5.17	4.10	3.57	3.78	3.60	4.03	4.75
Total	2.31	2.33	2.44	2.64	2.33	2.57	2.58	2.40

^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 and Sources: See the last page of this section.

Table 32. Average Price of Natural Gas Delivered to All Consumers by State
(Dollars per Thousand Cubic Feet)

State	July 1990	June 1990	May 1990	April 1990	March 1990	February 1990	January 1990	Total 1989
Alabama	4.35	4.38	4.76	4.81	4.77	4.94	4.92	4.60
Alaska	1.78	1.94	2.27	2.29	2.38	2.51	2.42	1.84
Arizona	3.84	3.82	4.29	4.59	4.69	5.02	5.11	4.10
Arkansas	2.63	2.84	3.36	3.98	4.15	4.09	4.10	3.63
California	3.80	4.13	4.36	4.25	4.86	5.25	5.04	4.32
Colorado	4.03	3.97	3.90	3.89	3.86	4.01	3.93	4.07
Connecticut	5.49	6.18	6.54	6.72	7.17	7.32	7.49	6.62
Delaware	3.27	3.33	3.88	4.40	4.41	4.73	4.98	4.25
District of Columbia	6.03	5.95	6.17	6.35	7.32	6.88	6.86	6.42
Florida	2.69	2.57	2.74	2.77	3.05	3.47	4.02	3.15
Georgia	5.18	5.36	5.39	5.35	5.95	6.26	5.55	5.38
Hawaii	11.60	12.38	12.83	13.22	13.07	12.78	12.57	12.32
Idaho	5.22	4.88	4.85	4.73	4.43	4.33	4.16	4.64
Illinois	5.40	5.34	4.93	4.73	4.88	5.09	4.67	4.70
Indiana	4.91	5.10	5.03	5.07	5.11	5.11	5.37	5.01
Iowa	4.09	3.89	3.90	3.93	4.12	4.44	4.70	3.93
Kansas	2.70	2.97	3.49	3.79	3.89	3.99	3.97	3.46
Kentucky	5.47	5.07	5.00	4.57	4.48	4.59	4.54	4.42
Louisiana	1.92	1.97	2.00	2.15	2.38	2.88	3.08	2.34
Maine	5.03	5.01	5.47	6.57	7.29	7.35	6.41	5.81
Maryland	5.13	5.56	5.66	5.44	5.67	5.69	5.62	5.43
Massachusetts	3.69	4.27	4.39	6.03	7.25	7.46	6.81	5.54
Michigan	5.41	4.92	4.78	4.63	4.53	4.57	4.49	4.88
Minnesota	3.70	3.79	3.73	3.71	3.80	4.21	4.70	4.06
Mississippi	2.10	2.40	2.69	2.88	3.20	3.66	3.99	3.09
Missouri	5.43	5.23	4.98	4.88	4.89	4.86	4.67	4.59
Montana	4.24	4.31	4.11	4.12	4.12	4.14	4.13	4.08
Nebraska	3.72	3.92	3.83	3.75	3.91	4.08	4.42	3.94
Nevada	3.02	3.31	3.33	3.54	4.06	4.48	4.45	3.84
New Hampshire	6.08	5.81	5.52	6.79	7.30	7.26	6.48	6.18
New Jersey	4.67	5.21	5.65	5.56	5.78	5.94	5.60	5.34
New Mexico	3.22	3.27	3.54	3.89	4.14	4.56	4.48	3.84
New York	4.00	4.35	4.83	4.83	5.61	6.41	6.10	5.58
North Carolina	4.14	4.36	4.41	4.28	4.40	4.52	4.83	4.87
North Dakota	5.27	4.78	4.43	4.25	4.30	4.28	4.26	4.39
Ohio	5.60	5.36	4.91	5.03	4.63	5.00	5.02	5.12
Oklahoma	2.88	3.10	3.10	3.37	3.40	3.33	3.34	3.15
Oregon	4.83	4.97	5.19	5.15	5.24	5.30	5.24	4.14
Pennsylvania	7.04	6.54	6.39	6.06	5.97	5.94	5.87	5.58
Rhode Island	4.84	5.74	5.42	5.92	6.67	6.83	6.75	6.41
South Carolina	2.71	3.43	3.86	4.35	4.67	4.96	5.54	4.47
South Dakota	4.98	4.66	4.39	4.23	4.26	4.44	4.65	4.29
Tennessee	3.75	3.94	3.92	4.25	4.40	4.54	4.55	4.13
Texas	2.40	2.33	2.39	2.63	2.88	3.36	3.63	2.81
Utah	5.01	4.71	4.78	4.97	4.79	4.82	4.73	4.65
Vermont	3.47	4.09	4.18	4.42	4.73	4.97	4.85	4.48
Virginia	5.23	5.04	5.50	5.20	5.42	5.84	5.67	5.48
Washington	3.81	3.89	3.74	3.99	4.00	4.07	4.18	4.36
West Virginia	6.63	6.48	6.19	6.03	6.00	5.92	5.76	5.02
Wisconsin	4.85	4.68	4.69	4.77	5.09	5.20	4.94	4.92
Wyoming	4.93	4.57	4.50	4.47	4.39	4.47	4.40	4.39
Total	3.39	3.53	3.84	4.23	4.50	4.82	4.77	4.22

See footnotes at end of table.

**Table 32. Average Price of Natural Gas Delivered to All Consumers by State
(Continued)
(Dollars per Thousand Cubic Feet)**

State	December 1989	November 1989	October 1989	September 1989	August 1989	July 1989	June 1989	May 1989
Alabama	4.91	4.78	4.56	4.53	4.51	4.52	4.35	4.41
Alaska	2.26	2.16	1.98	1.77	1.63	1.79	1.82	1.91
Arizona	4.64	3.88	3.85	3.49	3.48	3.31	3.70	3.84
Arkansas	3.86	3.62	3.57	3.66	3.09	3.24	3.45	3.85
California	4.87	4.37	3.74	3.92	3.92	3.79	4.00	4.28
Colorado	4.11	4.22	4.23	4.29	3.92	4.31	4.36	4.17
Connecticut	7.25	6.61	5.93	5.73	5.93	6.51	6.26	6.05
Delaware	4.92	4.33	3.69	3.46	3.52	3.59	4.25	4.27
District of Columbia	6.57	6.40	6.42	6.52	5.40	5.86	5.21	6.05
Florida	3.83	3.18	3.04	2.75	2.83	3.04	3.05	3.26
Georgia	5.30	5.60	5.70	5.47	5.44	5.66	5.39	5.46
Hawaii	12.42	12.71	12.40	12.53	12.64	12.81	12.96	12.34
Idaho	4.45	4.89	5.04	5.11	5.33	5.19	5.05	5.02
Illinois	4.43	4.37	4.60	5.12	5.42	5.14	5.00	4.79
Indiana	4.59	4.52	4.59	5.03	5.02	4.85	4.69	5.47
Iowa	4.26	3.88	3.55	3.69	3.85	3.78	3.72	3.66
Kansas	3.92	3.71	3.81	3.27	2.80	2.90	3.15	3.59
Kentucky	4.23	4.46	4.60	5.04	5.05	4.78	4.64	4.56
Louisiana	2.90	2.33	2.10	2.10	2.11	2.14	2.14	2.09
Maine	6.37	5.96	5.56	5.42	5.21	5.10	5.37	5.50
Maryland	5.55	5.81	5.04	5.66	5.09	5.48	5.06	5.14
Massachusetts	6.77	6.22	3.93	4.04	4.13	4.10	4.41	4.83
Michigan	4.54	4.71	5.17	5.62	6.00	5.53	5.33	4.94
Minnesota	4.27	3.95	3.82	3.92	3.84	3.89	3.91	3.86
Mississippi	3.66	3.28	2.67	2.52	2.44	2.49	2.62	2.65
Missouri	4.56	4.70	4.89	5.19	5.32	5.34	5.21	4.85
Montana	4.17	4.19	3.88	3.81	3.68	3.44	3.99	3.94
Nebraska	4.12	3.87	3.77	3.85	3.74	3.66	4.07	3.89
Nevada	4.39	4.04	3.60	3.27	3.06	3.07	3.70	3.73
New Hampshire	6.57	6.67	5.53	5.47	5.82	5.75	5.49	5.47
New Jersey	5.81	5.63	5.30	4.94	4.65	4.54	4.54	5.19
New Mexico	4.12	3.81	3.62	3.43	3.47	3.61	3.69	3.64
New York	6.19	5.94	5.00	4.63	4.59	4.60	4.81	4.99
North Carolina	5.21	4.57	4.69	4.65	4.61	4.55	4.56	4.67
North Dakota	4.25	4.33	4.78	4.77	5.33	5.09	4.80	4.61
Ohio	4.81	5.03	5.03	5.56	5.73	5.68	5.53	5.04
Oklahoma	3.33	3.18	3.29	2.96	2.88	3.10	3.08	3.07
Oregon	5.28	5.10	4.87	4.96	5.04	5.12	5.04	5.05
Pennsylvania	5.65	5.80	5.99	6.23	6.20	6.26	5.62	5.55
Rhode Island	6.68	6.45	5.45	6.14	5.53	5.71	6.15	6.25
South Carolina	5.56	4.37	3.87	3.71	3.64	3.58	3.62	4.22
South Dakota	4.43	4.14	4.14	4.47	4.63	4.57	4.41	4.28
Tennessee	4.45	4.17	3.93	3.93	3.87	3.93	3.92	3.88
Texas	3.37	2.86	2.54	2.42	2.55	2.55	2.56	2.55
Utah	4.77	4.92	5.08	4.87	5.06	4.68	4.46	4.60
Vermont	4.93	4.39	4.13	4.26	4.37	4.47	4.47	4.54
Virginia	5.72	5.33	5.73	5.57	5.82	5.29	4.66	5.11
Washington	4.30	4.38	3.94	4.07	3.86	3.94	4.16	4.23
West Virginia	5.64	5.29	4.89	4.89	4.98	5.03	5.11	4.99
Wisconsin	4.66	4.87	4.77	5.09	5.29	5.16	4.89	4.85
Wyoming	4.34	4.45	4.48	4.59	4.79	4.71	4.46	4.36
Total	4.64	4.30	3.86	3.67	3.57	3.59	3.72	3.94

See footnotes at end of table.

**Table 32. Average Price of Natural Gas Delivered to All Consumers by State
(Continued)**
(Dollars per Thousand Cubic Feet)

State	April 1989	March 1989	February 1989	January 1989	Total 1988
Alabama	4.46	4.46	4.66	4.73	4.53
Alaska	2.11	2.12	2.42	2.23	1.77
Arizona	3.61	4.57	5.20	5.17	4.76
Arkansas	3.53	3.51	3.79	3.98	3.67
California	3.98	4.43	4.82	5.11	4.20
Colorado	4.03	4.04	3.96	3.90	4.04
Connecticut	6.56	6.73	6.92	6.89	6.25
Delaware	4.08	4.51	4.78	5.10	4.22
District of Columbia	6.32	6.87	6.56	6.67	6.07
Florida	3.26	3.44	3.26	3.35	2.92
Georgia	5.22	5.39	5.38	5.16	5.24
Hawaii	12.42	11.98	11.42	11.34	12.41
Idaho	4.90	4.53	4.39	4.36	4.99
Illinois	4.78	4.93	4.82	4.54	4.39
Indiana	5.40	5.30	5.09	5.40	4.73
Iowa	3.68	3.79	4.05	4.26	4.09
Kansas	3.42	3.53	3.52	3.41	3.19
Kentucky	4.43	4.33	4.35	4.31	4.20
Louisiana	2.20	2.42	2.79	2.82	2.29
Maine	5.79	5.98	5.97	6.01	5.80
Maryland	5.06	5.46	5.74	5.62	5.31
Massachusetts	5.58	6.19	6.70	6.65	5.62
Michigan	4.80	4.82	4.82	4.84	5.04
Minnesota	3.84	3.94	4.16	4.34	4.05
Mississippi	3.07	3.50	3.98	4.00	3.40
Missouri	4.51	4.37	4.38	4.36	4.44
Montana	4.09	4.13	4.17	4.25	4.04
Nebraska	3.75	3.85	4.06	4.17	3.88
Nevada	3.50	4.19	4.43	4.41	4.57
New Hampshire	6.17	6.41	6.41	6.34	5.64
New Jersey	5.24	5.39	5.70	5.52	5.18
New Mexico	3.72	3.82	4.02	4.19	3.68
New York	5.34	6.21	6.14	6.16	5.26
North Carolina	4.90	5.08	5.03	5.03	4.67
North Dakota	4.32	4.26	4.29	4.30	4.70
Ohio	5.22	5.07	5.21	5.19	4.98
Oklahoma	3.11	3.21	3.26	3.16	3.15
Oregon	5.08	5.10	5.20	5.49	5.50
Pennsylvania	5.50	5.38	5.34	5.32	5.18
Rhode Island	6.95	6.77	6.89	6.48	6.14
South Carolina	4.35	4.96	5.38	5.37	4.49
South Dakota	4.14	4.15	4.26	4.46	4.34
Tennessee	4.04	4.10	4.26	4.26	3.97
Texas	2.70	2.93	3.19	3.32	2.69
Utah	4.73	4.59	4.49	4.52	4.47
Vermont	4.48	4.48	4.96	4.49	4.47
Virginia	5.09	5.62	5.71	5.60	4.82
Washington	4.36	4.42	4.59	4.49	4.19
West Virginia	4.80	4.90	4.77	4.76	5.11
Wisconsin	4.92	4.96	5.08	5.02	5.19
Wyoming	4.38	4.32	4.32	4.32	4.18
Total	4.18	4.46	4.60	4.67	4.09

R = Revised Data

Notes and Sources: See the last page of this section.

Table 33. Percentage of Total Deliveries Represented by Onsystem Sales

State	August 1990		July 1990		June 1990		May 1990	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	71.3	36.1	74.8	29.9	78.3	32.7	72.7	29.2
Alaska	100.0	46.3	100.0	57.4	100.0	53.1	100.0	64.0
Arizona	90.6	25.6	91.7	22.0	92.5	29.5	84.7	45.4
Arkansas	86.8	19.3	88.4	18.3	88.7	16.8	90.6	16.7
California	82.4	38.0	87.9	30.9	85.6	30.4	90.1	41.8
Colorado	94.4	39.7	94.6	56.0	97.4	39.4	97.2	49.6
Connecticut	86.8	65.9	87.4	67.2	89.9	78.6	91.1	79.0
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	38.9	97.4	59.7	97.2	61.0	97.3	62.5
Georgia	81.6	40.4	79.0	38.9	79.9	31.7	81.0	27.6
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	85.2	3	86.2	.5	88.1	.6	85.8	.6
Illinois	46.0	9.4	46.8	13.7	47.4	8.6	50.5	14.9
Indiana	89.8	15.6	92.2	16.7	90.7	16.0	92.1	15.9
Iowa	95.6	32.5	95.3	31.8	96.3	30.5	97.2	29.6
Kansas	94.3	17.3	94.5	19.5	93.8	16.3	92.2	16.0
Kentucky	89.2	10.8	89.3	11.5	89.6	12.5	89.9	11.5
Louisiana	100.0	44.8	100.0	49.7	100.0	44.3	100.0	44.7
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	95.9	100.0	97.4	100.0	92.7	100.0	94.6
Michigan	49.5	8.3	47.7	9.4	56.2	9.9	65.6	15.2
Minnesota	89.4	28.8	89.6	27.0	91.0	32.0	94.7	30.5
Mississippi	94.0	44.4	89.8	42.5	90.4	44.1	90.9	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	30.5	96.8	28.2	89.3	31.1	92.1	34.4
Nevada	96.7	8.6	90.5	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	82.1	31.9	81.9	28.0	82.4	33.2
North Carolina	83.1	45.8	83.4	53.2	84.8	48.3	89.2	47.7
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	45.8	88.1	49.8	89.8	38.9	91.9	43.6
Oregon	96.5	15.3	96.5	16.4	97.5	23.4	97.4	18.2
Pennsylvania	67.1	15.6	68.0	14.0	69.7	16.7	73.6	15.3
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	84.9	32.5	85.5	38.5	86.2	42.4	87.1	55.4
Tennessee	95.1	51.4	94.2	53.0	94.5	52.1	94.6	52.7
Texas	94.4	24.7	94.1	24.8	95.4	23.6	94.1	21.9
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	13.4	93.8	10.0	93.5	12.9	93.8	16.0
Washington	88.5	47.7	88.4	46.2	88.9	47.7	91.0	50.1
West Virginia	36.9	10.9	36.4	11.1	37.2	10.5	49.2	10.8
Wisconsin	80.1	30.2	79.7	30.6	83.5	29.8	88.9	35.4
Wyoming	99.6	6.2	99.6	6.2	99.7	7.7	99.7	11.8
Total	83.4	31.2	83.4	31.6	85.3	29.6	86.4	30.2

See footnotes at end of table.

**Table 33. Percentage of Total Deliveries Represented by Onsystem Sales
(Continued)**

State	April 1990		March 1990		February 1990		January 1990	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	74.8	27.4	78.1	29.9	80.4	28.9	85.5	31.8
Alaska	100.0	55.1	100.0	60.5	100.0	60.3	100.0	57.8
Arizona	93.3	42.7	94.9	47.2	96.5	58.8	96.4	62.3
Arkansas	93.2	13.6	93.7	14.5	94.7	16.7	95.8	18.1
California	■ 90.3	■ 40.6	■ 94.4	■ 46.8	■ 81.0	■ 37.0	■ 95.8	■ 57.5
Colorado	97.5	46.7	97.8	45.5	98.0	45.6	98.1	50.6
Connecticut	95.6	88.2	93.6	93.9	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	27.4	87.9	27.2	89.8	25.3	96.3	58.2
Hawaii	100.0	—	100.0	—	100.0	—	100.0	—
Idaho	87.7	6	89.7	5	90.4	6	91.5	8.8
Illinois	57.9	16.8	62.5	22.3	67.6	31.4	66.6	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	39.0	98.2	46.2	98.5	44.5
Kansas	93.0	18.4	91.0	17.5	91.1	19.6	92.9	21.8
Kentucky	93.4	13.0	95.3	15.5	96.2	21.8	96.3	40.1
Louisiana	100.0	45.3	100.0	41.0	100.0	41.9	100.0	41.1
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	98.3	58.7
Massachusetts	100.0	93.4	100.0	90.2	100.0	91.8	100.0	94.2
Michigan	70.7	18.9	73.0	22.0	72.4	20.7	71.5	22.0
Minnesota	94.7	35.0	95.6	46.0	96.2	51.4	97.5	53.5
Mississippi	100.0	54.3	100.0	57.0	100.0	51.4	100.0	52.0
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	92.7	39.9	93.9	43.8	95.2	56.5	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	■ 88.1	35.2	■ 88.3	40.5	■ 93.6	60.9	■ 92.5	58.2
North Carolina	97.7	71.7	98.8	92.8	98.9	97.1	99.1	99.4
North Dakota	76.1	29.4	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	89.2	20.2
Oklahoma	92.5	48.5	91.3	53.1	92.6	56.8	94.3	57.6
Oregon	97.3	20.2	98.4	20.7	98.5	18.2	98.2	26.6
Pennsylvania	79.6	21.0	80.5	23.5	83.3	28.4	85.7	31.2
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	79.5
South Dakota	89.3	47.0	91.7	55.3	92.1	63.1	92.5	76.0
Tennessee	97.5	54.7	98.4	60.3	98.2	63.3	98.7	65.5
Texas	94.2	21.4	89.5	27.4	94.0	27.5	94.6	30.2
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	19.9	90.1	24.0	95.6	20.9	97.1	25.6
Washington	92.2	50.9	93.2	61.0	95.9	63.9	96.2	63.9
West Virginia	55.9	10.1	60.1	10.8	63.6	15.0	70.2	17.6
Wisconsin	90.7	39.2	90.8	44.1	90.3	47.0	90.5	55.6
Wyoming	99.8	11.4	99.7	16.9	99.7	13.8	99.7	19.1
Total	■ 87.4	■ 31.6	■ 88.6	■ 34.7	■ 89.0	■ 36.7	■ 90.9	■ 40.6

See footnotes at end of table.

**Table 33. Percentage of Total Deliveries Represented by Onsystem Sales
(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	98.4	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	19.5
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	65.3	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	82.9	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

See footnotes at end of table.

**Table 33. Percentage of Total Deliveries Represented by Onsystem Sales
(Continued)**

State	September 1989		August 1989		July 1989		June 1989	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	78.9	33.3	83.6	34.9	55.5	36.9	86.2	37.8
Alaska	100.0	48.6	100.0	47.7	100.0	44.4	100.0	55.2
Arizona	91.5	51.5	89.1	49.6	89.1	49.3	91.7	45.9
Arkansas	88.2	22.0	86.2	17.5	87.2	14.9	91.5	14.0
California	91.0	39.4	87.8	34.0	89.4	40.1	92.8	43.9
Colorado	95.8	42.8	91.8	53.2	95.0	49.5	97.3	41.5
Connecticut	74.8	85.4	80.4	98.4	74.5	80.6	76.5	89.4
Delaware	100.0	64.0	100.0	66.0	100.0	78.2	100.0	76.4
District of Columbia	100.0	--	100.0	--	100.0	--	100.0	--
Florida	100.0	71.3	100.0	74.4	100.0	71.1	100.0	73.1
Georgia	83.0	30.2	80.2	29.6	80.7	27.4	81.7	31.1
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	84.1	33.3	83.0	33.3	86.7	32.2	85.8	34.4
Illinois	62.4	23.2	47.4	21.8	50.2	21.0	59.7	22.1
Indiana	89.1	15.3	96.8	17.1	96.7	19.3	97.2	29.2
Iowa	95.2	41.5	95.0	41.1	95.4	44.1	96.3	40.7
Kansas	91.8	22.1	94.7	27.4	93.7	20.4	89.2	19.0
Kentucky	89.8	16.3	88.2	20.2	89.5	32.2	89.2	28.4
Louisiana	99.9	47.9	99.9	47.0	99.9	51.6	99.9	52.9
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	94.1	20.7	94.7	18.4	94.3	16.9	95.1	22.0
Massachusetts	99.9	100.0	99.9	100.0	99.9	100.0	99.3	100.0
Michigan	57.5	10.8	50.8	8.8	51.7	9.5	47.6	9.5
Minnesota	92.7	34.5	89.9	34.3	89.4	31.8	92.4	41.7
Mississippi	100.0	52.9	100.0	48.0	100.0	52.1	100.0	46.6
Missouri	86.9	42.8	90.5	42.1	86.1	42.3	85.8	42.0
Montana	96.3	60.5	96.3	75.3	96.4	84.8	96.8	89.6
Nebraska	99.7	30.8	99.9	37.4	99.9	27.8	99.8	31.2
Nevada	91.2	6.9	91.7	7.1	92.7	9.2	94.3	9.0
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	93.5	51.6	93.4	47.5	94.2	48.1	94.7	55.4
New Mexico	80.2	21.9	81.9	28.5	80.2	21.3	83.4	21.4
New York	73.6	29.1	78.2	34.6	78.6	27.5	81.3	29.8
North Carolina	84.1	48.1	84.2	48.6	80.1	53.6	87.7	54.2
North Dakota	71.4	18.5	64.9	19.7	69.2	20.4	74.8	18.5
Ohio	78.9	14.3	75.0	11.2	75.5	14.5	74.4	11.3
Oklahoma	86.8	47.3	85.0	49.8	86.7	42.3	86.6	48.9
Oregon	97.4	17.8	97.2	17.5	97.0	16.3	97.6	22.1
Pennsylvania	76.4	20.4	77.2	19.5	79.6	17.2	76.9	20.9
Rhode Island	44.6	67.8	40.4	71.2	48.9	69.8	47.7	67.7
South Carolina	97.7	75.7	97.7	74.4	98.1	83.7	98.2	85.0
South Dakota	90.0	55.2	89.4	53.4	90.2	55.1	91.6	53.6
Tennessee	96.9	55.9	95.8	57.8	96.7	58.0	95.9	56.8
Texas	81.8	25.1	90.4	23.2	92.7	25.0	88.8	28.8
Utah	100.0	29.6	100.0	22.8	100.0	28.5	100.0	26.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	95.4	21.9	94.1	20.0	93.9	23.3	96.4	37.1
Washington	87.3	58.1	97.6	61.8	87.0	57.9	89.7	60.3
West Virginia	40.5	24.2	39.5	23.8	39.8	22.6	45.3	23.3
Wisconsin	84.2	22.1	84.2	19.4	86.1	21.7	87.7	26.7
Wyoming	99.8	12.6	100.0	12.7	100.0	13.6	100.0	18.5
Total	84.7	33.2	84.9	32.1	84.9	33.5	86.1	36.5

See footnotes at end of table.

**Table 33. Percentage of Total Deliveries Represented by Onsystem Sales
(Continued)**

State	May 1989		April 1989		March 1989		February 1989	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	83.8	37.6	90.6	39.5	89.4	42.2	82.5	40.4
Alaska	100.0	60.4	100.0	50.9	100.0	61.8	100.0	59.2
Arizona	92.8	45.1	93.5	43.6	94.1	31.5	96.3	32.7
Arkansas	91.3	18.9	94.3	17.3	95.9	18.3	95.6	23.1
California	94.8	38.1	88.3	39.9	93.0	37.4	95.1	50.7
Colorado	97.3	42.0	97.8	43.6	98.3	39.5	98.1	46.2
Connecticut	81.6	82.6	90.0	87.2	98.4	91.7	100.0	100.0
Delaware	100.0	82.9	100.0	83.8	100.0	83.5	100.0	79.2
District of Columbia	100.0	--	100.0	--	100.0	--	100.0	--
Florida	100.0	75.9	100.0	74.0	100.0	78.0	100.0	80.0
Georgia	85.3	30.6	88.2	33.8	89.7	37.2	93.6	42.6
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	82.7	4	89.0	.4	90.6	.5	90.2	.7
Illinois	67.5	25.0	69.6	27.7	69.8	30.6	73.4	36.4
Indiana	92.6	14.4	92.6	17.1	94.3	20.0	93.9	28.3
Iowa	97.0	43.5	98.0	40.7	98.5	44.6	98.4	46.0
Kansas	92.9	18.1	94.6	21.3	94.1	22.7	94.4	22.5
Kentucky	91.0	31.2	94.9	31.1	96.4	32.9	96.6	35.6
Louisiana	99.9	53.1	99.9	51.2	99.9	47.4	99.9	45.3
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	95.9	28.1	96.7	36.3	97.1	40.6	96.6	42.5
Massachusetts	99.9	100.0	99.9	100.0	99.9	100.0	99.9	91.2
Michigan	64.9	16.2	71.7	18.9	76.0	23.6	74.5	23.7
Minnesota	95.0	48.4	95.8	52.4	97.0	53.5	97.4	56.6
Mississippi	100.0	50.7	100.0	47.5	100.0	55.4	100.0	54.6
Missouri	90.7	44.7	93.2	47.4	94.4	53.5	93.9	53.4
Montana	97.4	85.4	98.6	83.7	98.8	88.9	98.9	89.9
Nebraska	99.7	37.5	99.8	42.2	97.1	41.9	96.5	45.9
Nevada	94.2	8.9	95.0	11.2	96.9	15.4	98.1	21.3
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	96.2	53.3	98.3	58.7	98.7	62.6	98.9	75.1
New Mexico	86.6	28.6	86.5	15.9	91.4	2.2	89.2	10.9
New York	85.4	35.5	85.0	36.3	89.3	45.7	90.1	47.3
North Carolina	89.6	57.6	92.4	71.1	94.9	78.1	98.9	96.8
North Dakota	80.6	22.0	83.9	34.9	84.0	33.4	84.8	36.5
Ohio	81.2	12.7	86.0	15.3	87.1	16.6	88.1	18.7
Oklahoma	89.1	47.1	87.9	46.7	91.7	48.1	90.2	54.7
Oregon	97.6	19.4	98.3	22.2	98.7	24.6	99.2	31.9
Pennsylvania	81.7	23.9	87.4	25.5	88.7	33.8	88.9	42.9
Rhode Island	83.9	71.3	87.1	82.1	100.0	100.0	100.0	100.0
South Carolina	93.1	67.7	98.3	75.8	98.6	74.5	98.5	76.5
South Dakota	92.5	56.3	92.1	65.5	92.8	68.1	93.1	68.6
Tennessee	96.8	67.4	97.5	61.9	98.9	66.1	98.9	65.9
Texas	89.9	25.6	91.9	26.4	93.2	28.1	91.8	25.4
Utah	100.0	28.8	100.0	31.3	100.0	30.3	100.0	38.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	96.4	28.3	97.1	45.5	98.1	43.3	98.4	51.0
Washington	93.0	57.5	93.2	60.9	96.9	58.9	94.8	62.4
West Virginia	55.0	23.3	63.9	30.8	65.3	27.1	69.0	36.6
Wisconsin	92.6	32.8	94.0	35.7	94.5	40.9	94.2	43.5
Wyoming	100.0	24.5	100.0	15.5	100.0	21.5	100.0	21.7
Total	88.2	35.3	89.1	36.1	90.8	37.6	91.2	39

See footnotes at end of table

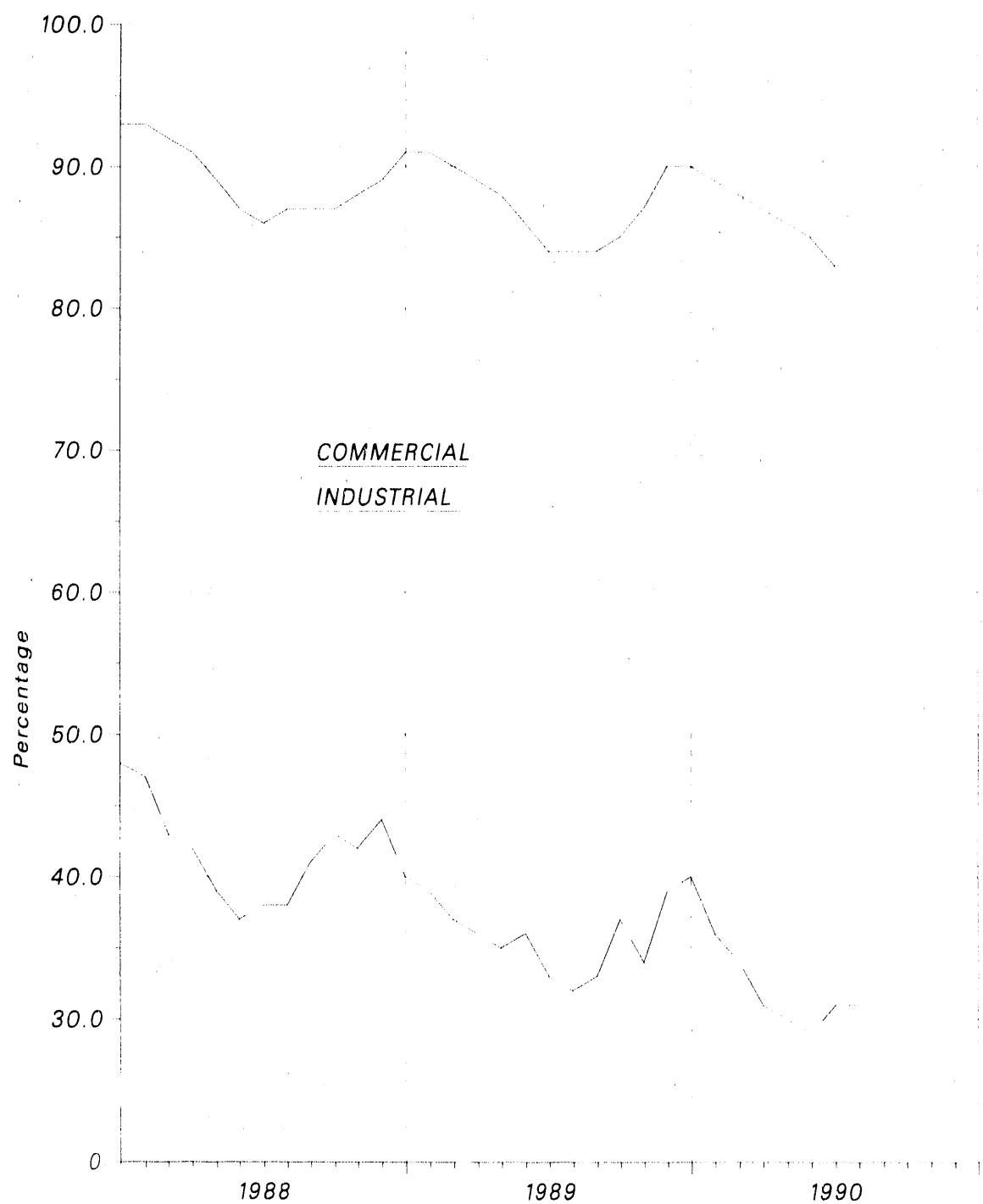
**Table 33. Percentage of Total Deliveries Represented by Onsystem Sales
(Continued)**

State	January 1989		Total 1988		December 1988		November 1988	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	85.9	38.2	91.1	50.0	82.9	39.9	90.6	49.7
Alaska	100.0	72.3	100.0	54.5	100.0	67.4	100.0	63.6
Arizona	96.1	29.7	95.4	29.1	95.1	28.2	94.3	25.7
Arkansas	95.3	24.1	93.7	24.3	94.3	27.3	91.6	26.6
California	94.6	52.2	95.6	63.1	83.6	67.3	85.1	59.8
Colorado	98.0	47.6	97.7	39.0	97.8	34.9	97.0	37.1
Connecticut	100.0	100.0	98.1	97.7	100.0	100.0	99.6	98.8
Delaware	100.0	75.9	100.0	79.1	100.0	77.5	100.0	76.5
District of Columbia	100.0	--	100.0	--	100.0	--	100.0	--
Florida	100.0	79.7	100.0	76.1	100.0	76.8	100.0	76.2
Georgia	96.6	53.2	93.9	46.3	95.5	61.6	89.9	45.6
Hawaii	100.0	--	100.0	--	100.0	--	100.0	--
Idaho	88.8	7	85.9	3.6	86.4	3.7	81.6	2.5
Illinois	71.8	37.1	76.8	34.8	74.7	31.0	73.7	36.7
Indiana	94.1	24.7	95.2	23.3	94.2	28.8	98.4	21.9
Iowa	98.4	43.6	98.3	40.3	98.2	44.4	97.8	38.8
Kansas	94.8	23.0	96.4	37.1	93.2	23.5	91.8	22.7
Kentucky	97.1	46.2	95.8	37.7	96.0	42.3	95.1	36.4
Louisiana	99.9	48.0	99.9	57.4	99.9	52.7	99.9	55.5
Maine	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Maryland	97.1	47.9	96.9	37.9	96.8	40.7	96.1	36.1
Massachusetts	99.9	91.0	99.9	99.2	100.0	93.7	100.0	99.6
Michigan	75.8	25.1	71.6	19.9	74.5	23.2	72.8	19.5
Minnesota	97.3	56.2	96.8	55.9	98.5	55.0	96.3	56.2
Mississippi	100.0	46.3	100.0	56.0	100.0	49.5	100.0	60.1
Missouri	94.4	55.4	96.2	70.3	92.4	64.2	91.9	63.5
Montana	98.3	74.3	99.9	86.8	99.9	85.2	99.2	76.7
Nebraska	96.8	49.0	97.7	51.1	99.5	47.5	100.0	43.5
Nevada	98.0	16.8	95.1	31.2	91.0	13.3	91.6	25.2
New Hampshire	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New Jersey	99.0	79.0	98.5	65.2	99.4	77.6	98.0	58.2
New Mexico	93.0	9.0	92.7	21.1	92.3	15.0	94.6	16.0
New York	90.4	50.0	89.4	48.0	89.7	54.0	87.6	47.0
North Carolina	98.7	97.4	95.0	82.3	98.4	96.2	96.3	85.1
North Dakota	81.7	36.5	92.7	43.5	93.3	39.6	89.6	37.1
Ohio	87.4	21.1	87.1	18.7	88.2	22.5	86.8	21.0
Oklahoma	89.7	51.3	74.5	40.0	80.3	57.6	73.4	58.2
Oregon	99.1	26.6	98.8	34.6	98.4	21.7	97.7	22.0
Pennsylvania	89.4	42.5	90.2	41.2	91.0	48.4	88.7	42.5
Rhode Island	100.0	100.0	87.1	89.2	100.0	100.0	98.3	94.9
South Carolina	98.5	95.2	99.1	80.2	97.3	87.0	98.1	80.0
South Dakota	92.8	64.0	96.2	69.5	94.5	71.7	94.0	69.8
Tennessee	99.1	66.4	97.4	67.8	99.0	65.3	97.9	66.2
Texas	86.2	24.8	87.5	29.8	79.1	33.4	88.1	29.7
Utah	100.0	38.7	100.0	47.0	100.0	38.6	100.0	41.7
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	98.3	49.4	97.6	51.3	97.9	53.6	97.1	51.2
Washington	95.5	60.8	97.2	68.9	96.1	56.1	93.3	57.8
West Virginia	68.6	36.2	60.3	17.3	66.9	17.4	64.1	16.2
Wisconsin	94.1	44.5	93.4	35.5	93.7	44.9	92.8	37.6
Wyoming	100.0	18.5	100.0	22.1	100.0	17.5	100.0	14.8
Total	91.0	40.5	90.8	42.6	89.7	44.4	88.7	42.1

R Revised Data
-- Not Applicable

Notes and Sources The percentages depict the portion of total commercial and industrial deliveries represented by onsystem sales. Total deliveries include volume transported to commercial and industrial consumers for the account of others.

Figure 7. Percentage of Total Deliveries Represented by Onsystem Sales



Source: Form EIA-857.

Table Notes and Sources

Table 1

Notes: Data for 1984 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

Notes: Data for 1984 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*, 1984 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*, 1984 through 1989; Form FERC-8 and Form EIA-191, January 1990 through current month.
- Supplemental Gaseous Fuels: EIA *Natural Gas Annual 1989*, 1984 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, 1984 through 1989; and EIA estimates, January 1990 through the current month. See Explanatory Note 4 for discussion of procedures and revision policy.
- Consumption and Unaccounted For: EIA *Natural Gas Annual 1989*, 1984 through 1989; and EIA computations, January 1990 through current month. See Explanatory Notes 5 and 11 for discussion of computation procedures and revision policy.

Table 3

Notes: Data for 1984 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*, 1984 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).

Table 4

Notes: Data for 1984 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 1984 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, industrial, and all consumers averages.

Sources:

- Average wellhead price: EIA *Natural Gas Annual 1989*, 1984 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 1984 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."

Table 5

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.

Table 6

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

Sources:

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

Table 7

Notes: Data for 1984 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*, 1984 through 1989.
- IOCC, MMSreports, and EIA computations, January 1990 through current month.

Table 8

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

Notes: Dates shown indicate date received at FERC. 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

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

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 Federal Energy Regulatory Commission 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

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

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 components because of independent rounding.

Source:

- Form FERC-11.

Table 14

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

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 computation 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

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

Notes: Data for 1984 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.

Table 18

Notes: Data for 1984 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.

Table 19

Notes: Data for 1984 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.

Table 20

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 FERC-8.

Table 21

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.

Sources:

- Form FERC-8 and Form EIA-191.

Tables 22-25

Notes: Geographic coverage is the 50 States and the District of Columbia. Volumes in these tables represent the amount of natural gas delivered to four groups of natural gas consumers. See Explanatory Note 5 for discussion of computations and revision policy.

Sources:

- Residential, Commercial, and Industrial Volumes: Form EIA-857.
- Electric Utility Volumes: Form EIA-759.

Table 26

Notes: Geographic coverage is the 50 States and the District of Columbia. Volumes in this table represent the amount of natural gas delivered to all consumers. See Explanatory Note 5 for discussion of computations and revision policy.

Source:

- Form EIA-857 and Form EIA-759.

Table 27

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 is 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.

Tables 28-31

Notes: Data for 1988 and 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 and industrial consumers for 1988 forward reflect onsystem sales prices only. See Explanatory Note 5 for discussion of computations and revision policy. See Table 33 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries.

Sources:

- Residential, Commercial, and Industrial Prices: Form EIA-857.
- Electric Utility Prices: Form FERC-423.

Table 32

Notes: Geographic coverage is the 50 States and the District of Columbia. Prices in this table represent the on-system average price of natural gas delivered to all consumers. See preceding note regarding break in average price series. See Explanatory Note 5 for discussion of computations and revision policy.

Sources:

- Form EIA-857 and Form FERC-423.

Table 33

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.

Appendix A

Explanatory Notes

Appendix A

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. 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 EPC-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 EPC-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. 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 1984 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 volume, 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 status 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(e) "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. Unaccounted For

The "unaccounted for" 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 "unaccounted for" data, see the *Natural Gas Annual 1988*.

Preliminary Monthly Data

Preliminary monthly data in the "unaccounted for" category are calculated by subtracting additions to storage, exports, and consumption from total supply/disposition.

Final Monthly Data

Final monthly data in the "unaccounted for" category are calculated by subtracting storage additions, exports, and total consumption from total supply.

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.

These filings were submitted every 6 months by most of the pipeline companies and once a year by the others. Beginning June 1, 1988, all pipelines will 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. The filing dates, which are different for the different companies, are shown in Table A1.

Table A1. PGA Filing Schedule

Pipeline Company	Annual Filing Effective Date
Alabama-Tenn (b)	January
Algonguin Gas Trans (a)	March
ANR Pipeline	May
Arkla Gas (a,b)	April
Bayou Inter	August
Carnegie Nat Gas	September
Colorado Inter	October
Columbia (a,c)	May
Commercial	April
Consolidated (a)	September
E. Tenn Natural Gas (b)	January
Eastern Shore (c)	November
El Paso (b)	July
Equitrans Inc (a)	September
Florida (a,c)	May
Granite St Gas Trans(a,b)	January
Great Lakes Gas (a,c)	November
KN Energy (a)	December
Kentucky W. Va (a,c)	May
Lawrenceburg Gas	February
Mid-Louisiana Gas	September
Midwestern No. Div (b,c)	October
Midwestern So. Div	April
MIGC, Inc. (c)	May
MS. River Trans	June
National Fuel Supply(a,b)	January
Natural (a)	March
North Penn Gas (d)	March
Northern Natural (a,b)	January
Northwest Pipeline (a)	April
Panhandle Eastern (a)	March
Questar Pipeline Co	June
Ringwood Gathering	October
Sea Robin Pipeline (a)	January
South Georgia	July
Southern Natural	April
Tennessee Gas Pipeline(b)	January
Texas Eastern (a)	February
Texas Gas Pipeline	November
Texas Gas Trans (a,c)	February
Transcontinental (a)	August
Transwestern	July
Trunkline (a)	September
United (a)	October
Valero Interstate	June
Valley Gas	November
Western Gas Inter	August
Williams Nat Gas (a,c)	May
Williston Basin (a)	August

(a) Filed quarterly effective June 1, 1988.

(b) Filed quarterly effective July 1, 1988.

(c) Filed quarterly effective August 1, 1988.

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.

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

activities, 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

U.S. DEPARTMENT OF ENERGY
ENERGY INFORMATION ADMINISTRATIONForm Approved
OMB No. 19060175
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 E1-73, 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	4.0 Resubmittal
-----------------	-------------------	------------------	-----	-----------------

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

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

5.1 Change mail address to:

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

6.0 Contact person:

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

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
			<input type="checkbox"/>	<input type="checkbox"/> 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 Gas
- b Gathered
- c Processed
- 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
- m Delivered for Resale
- n Delivered directly to consumers
- o Other (specify) _____

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

	Volume (Mcft 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) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(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) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Continue on Part VI, if more space is needed)				
4.0 Transported into the report State from:				
(State or Country) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(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
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)
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:				
9.1 Residential sales		(Number of consumers)		
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 <input type="checkbox"/> Date _____
PART VI: CONTINUATION SHEET (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)				
_____ _____ _____				

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
_____ _____ _____ _____ _____ _____ _____ _____

PART VII: FOOTNOTES

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. _____

Name: _____

Operations in (State): _____

Street or Post Office Box: _____

City, State, Zip Code: _____

Attention: _____

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

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

PART I: IDENTIFICATION

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

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

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

5.1 Change mail address to:

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

6.0 Contact person:

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.

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

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

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

PART IV: SUPPLY OF NATURAL AND SUPPLEMENTAL GAS RECEIVED WITHIN OR TRANSPORTED INTO REPORT STATE				
2.0 On-system purchases received: 2.1 From producers, gatherers, and/or gas processors 2.2 From pipeline, distribution, and/or storage operators 2.3 From synthetic natural gas plants or SNG pipeline 7.0 Other sources of supply (specify): (Source and/or kind of fuel) (Continue on Part VI, if more space is needed)	Volume (Mcf at 14.73 psia)	e or f	Cost (Dollars)	e or f
8.0 Total Supply within report State				

PART V: DISPOSITION OF NATURAL AND SUPPLEMENTAL GAS WITHIN OR TRANSPORTED OUT OF REPORT STATE				
4.0 Used in pipeline, storage and/or distribution operations 9.0 Delivered directly to consumers: (Type of transaction and consumer) 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) Btu 11.0 Other disposition (specify) (Continue on Part VI, if more space is needed)	Volume (Mcf at 14.73 psia)	e or f	Cost or Revenue (Dollars)	e or f
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 <input type="checkbox"/>	4.0 Resubmittal <input type="checkbox"/>	Date:	
PART VI: CONTINUATION SHEET (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. 7.0 Other sources of supply (specify): (Continued) (Source and/or kind of fuel)						
Disposition (Continued)						
PART V. 11.0 Other Disposition (specify): (Continued)						
PART VII: FOOTNOTES						
Part No.	Item No.	EIA Use	Sub-Item (State, Company, or Line)	Line No.	Footnote	
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				

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. 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.

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.

Form EIA-627

U.S. DEPARTMENT OF ENERGY
Energy Information Administration

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

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 _____ _____ _____ _____
3. Name of Office/Agency	
4. Office Address (Street, City, State, Zip Code)	
5. Name of Contact Person	6. Phone Number of Contact Person (_____) ____-_____
PART II: NATURAL GAS VOLUMES	
7. Enter the pressure base at which all volumes are reported (psia at 60°F)	
8. Gross Withdrawals	
REPORT ALL VOLUMES IN MILLIONS OF CUBIC FEET	
<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>	
PROVIDE BEST ESTIMATE WHEN GAS IS NOT METERED	
Item (a)	Volume (b)
(1) Are the gross withdrawal quantities available from your records consistent with the definition stated above? (i) <input type="checkbox"/> Yes (ii) <input type="checkbox"/> No . . . <i>Explain the difference(s) in PART IV</i>	
(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 (<i>Enter the result of line 8(4) less lines 9, 10, and 11</i>)	

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: 901 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.

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 FERC-8/EIA-191 Data Reporting Requirements

The virtually identical Forms FERC-8 and EIA-191 are multipart forms that report the quantities of gas in storage, injections and withdrawals, and the location (including State and county), and capacity of underground storage reservoirs. 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.

FERC-8/EIA-191 Surveys, "Underground Natural Gas Storage Report"

Survey Design

This survey was 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.

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 have not been merged because of FERC's stated desire to maintain the separate identity of the FERC-8 for administrative reasons.

Survey Universe and Response Statistics

Currently, 91 companies operate underground storage facilities. Of these companies, 40 are subject to the jurisdiction of FERC and are required to report data on Form FERC-8. The other 51 companies are required to file the essentially identical Form EIA-191. Both forms are filed with EIA and the data are merged in a unified data processing system.

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

Routine Forms FERC-8/EIA-191 Edit Checks

Data received on Form FERC-8 are merged with data received on Form EIA-191 in a unified data processing system. The survey's five principal data elements (total, base, and working gas in storage, injections, and withdrawals) are hand tabulated to provide preliminary totals.

Individual company reports are manually checked for reasonableness by comparing current reports with prior responses. Mathematical calculations are manually checked for accuracy and all data are checked for internal consistency. 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.

Form EIA-191

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

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

UNDERGROUND GAS STORAGE REPORT

This report is mandatory under Public Law 93-275. Failure to report may result in criminal fines, civil penalties, or other sanctions as provided by law. See Part F of the General Instructions for information concerning confidentiality.

I. RESPONDENT IDENTIFICATION DATA									
(1)	a. IRS EIN Number		b. DOE Code	c. Report Period Ending Date		d. <input type="checkbox"/> Check if this is a revision to report previously submitted for the report period indicated.		e. <input type="checkbox"/> Check box if respondent identification has changed. If name has changed, enter previous name:	
	Mo	Da	Yr						
(2)	Respondent's Name			Street Address				City, State and Zip Code	
(3)	Person to contact if questions arise concerning this report:			Title		City and State		Tel. No. (Include Area Code and Extension)	
II. GAS STORAGE DATA									
Line No.	BALANCES (All volumes in Mcf - 14.73 psia - 60°F)					INJECTIONS & WITHDRAWALS			
	Base Gas (a)	Working Gas (b)	Total Gas in Storage (c)	Natural Gas Included in Column (a) (d)	Time Period	Injections (e)	Withdrawals (f)		
A. Respondent's Gas In Reservoirs Operated By Respondent <input type="checkbox"/> Estimated <input type="checkbox"/> Actual									
4	Balance Nov. 1					Nov. 1 To Date			
5	Report Period					Report Period			
B. Gas Belonging To Others In Reservoirs Operated By Respondent									
6	Balance Nov. 1					Nov. 1 To Date			
7	Report Period					Report Period			
C. Total Gas (Sum Of A And B)									
8	Balance Nov. 1					Nov. 1 To Date			
9	Report Period					Report Period			
D. Respondent's Gas In Reservoirs Operated By Others									
10	Balance Nov. 1					Nov. 1 To Date			
11	Report Period					Report Period			
E. Reservoirs In Development Stage Included In A And B Above									
12	Balance Nov. 1					Nov. 1 To Date			
13	Report Period					Report Period			
III. CERTIFICATION									
I certify that the information submitted on this form is the most accurate available at this time to the best of my knowledge									
Name (Type or Print)		Title				Signature		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.									

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.

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.

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.

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

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

Company Code Number

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.

Month Being Reported
19

PART I: IDENTIFICATION

1. Name of Company

2. Address of Company
(1) Number and Street

(2) City

(3) State

(4) Zip Code

3. Person Authorized To Sign This Report

(1) Signature

(2) Phone Number (Including area code)

PART II: REVENUE DATA

Line No. (a)	Item (b)	Revenues (In thousands of dollars)		Sales (In millions of cubic feet)		Foot- note (g)
		Current Year (c)	Previous Year (d)	Current Year (e)	Previous Year (f)	
4	Sales of Natural Gas					
5	Firm Industrial					
6	Off-peak Industrial					
7	Interruptible Industrial					
8	TOTAL INDUSTRIAL (Enter total of lines 5, 6 and 7)					
9	Other Ultimate Consumers					
10	TOTAL SALES TO ULTIMATE CONSUMERS (Enter total of lines 8 and 9)					
	Sales For Resale (483)					
11	Total Major Gas Pipelines					
12	Total to All Other Pipelines and Gas Utilities					
13	TOTAL SALES FOR RESALE (Enter total of lines 11 and 12)					
14	TOTAL SALES OF NATURAL GAS (Enter total of lines 10 and 13)					
15	Intracompany Transfers (485)					
16	Revenues From Transportation of Gas of Others (489)			(Enter volume of gas transported)		
17	Provision for Rate Refunds (496)					

Company Code Number		Month and Year Being Reported		

PART III: INCOME DATA

Line No. (a)	Item (b)	Current Year (In thousands of dollars) (c)	Previous Year (In thousands of dollars) (d)	Foot- note (e)
18	Gas Operating Revenues (400)			
19	Operation and Maintenance Expense (401, 402)			
20	Depreciation, Depletion and Amortization Expense (403-407)			
21	Taxes Other Than Income Taxes, Utility Operating Income (408.1)			
22	Total Gas Operating Expenses (401, 402, 403-407, 408.1, 409.1, 410.1, 411.1, 411.4)			
23	Net Gas Operating Revenues (Enter the result of lines 18 minus 22) (Including Plant Leased to Others)			
24	Total Gas Utility Operating Income (Refer to specific instruction for line 24.)			
25	Allowance For All Funds Used During Construction - Credit (419.1, 432)			
26	Total Income Before Interest Charges (427-432) and Extraordinary Items (409.3, 434,435)			
27	Net Income (433) Before Extraordinary Items (434, 435), Income Taxes (409.1, 409.2, 409.3, 410.1, 410.2, 411.1, 411.2), and Investment Tax Credits (411.4, 411.5, 420)			
28	Net Income (Monthly Amount Related to 433.)			

PART IV: OTHER SELECTED DATA

Line No. (a)	Item (b)	Current Year (In thousands of dollars) (c)	Previous Year (In thousands of dollars) (d)	Foot- note (e)
29	Gas Utility Plant in Service (101)			
30	Accumulated Provision For Depreciation, Depletion, and Amortization of Gas Utility Plant (108, 111)			
31	Gas Plant Construction Work In Progress (107)			
32	Gross Additions To Construction Work In Progress (107) For This Month Being Reported			
33	Amount Collected Which Is Subject To Refund During This Month Being Reported			
34	Cumulative Amount Collected Since January 1 This Year Subject To Refund, At End Of This Month Being Reported			
35	Monthly Amount Subject To Refund Actually Refunded During This Month Being Reported			
36	Cumulative Amount Subject To Refund Refunded Since January 1 This Year, To The End Of This Month Being Reported			

Company Code Number		Month and Year Being Reported				
PART V: OPERATION AND MAINTENANCE EXPENSE DATA						
Line No. (a)	Item (b)	Amount (In thousands of dollars)		Gas Volume (In millions of cubic feet)		Foot-note (g)
		Current Year (c)	Previous Year (d)	Current Year (e)	Previous Year (f)	
37	Manufactured Gas Production					
38	Liquefied Petroleum Gas					
39	Other Manufactured Gas					
40	TOTAL (Enter total of lines 38 and 39)					
41	Natural Gas Production					
42	Production and Gathering (750-769)					
43	Products Extraction (770-791)					(Enter thousands of gallons) 7
44	Exploration and Development (795-798)					
Purchased Natural Gas From						
45	Producers (800, 801-803)					
46	Intracompany Transfers (800.1)					
47	Imports					
48	Major Gas Pipelines (800, 801-803)					
49	Other Pipelines (800, 801-803)					
50	Other Gas Purchases (804, 805, 805.1 minus line 68-71)					
51	TOTAL (Enter total of lines 45 to 50)					
52	Natural Gas Produced					
53	Exchange Gas - In (806)					
54	Exchange Gas - Out (806)					
55	Purchased Gas Expenses (807.1-807.5)					
56	Gas Withdrawn From Underground Storage - Debit (808.1, 809.1)					
57	Gas Delivered To Underground Storage - Credit (808.2, 809.2)					
58	Gas Used For Compressor Station Fuel - Credit (810)					
59	Gas Used For Products Extraction - Credit (811)					
60	Gas Used For Other Utility Operations - Credit (812)					
61	Other Gas Supply Expenses (813)					
62	TOTAL GAS PRODUCTION (Enter total of lines 40, 42, 43, 44, 51, 53 to 61)					
63	Storage Expenses (814-843.9)					
64	LNG Terminating and Processing Expenses (844.1-847.8)					
65	Transmission Expenses (850-867)					
66	Distribution Expenses (870-894)					
67	Other Gas Purchased and Produced (Entries here should not be included under any other item in this part.)					
68	Liquefied Natural Gas (804.1)					
69	Gasified Coal					
70	Synthetic Gas (Reformed (gasified) liquid hydrocarbons.)					
71	TOTAL (Enter total of lines 68 to 70)					
72	All Other Operating and Maintenance Expenses (801-805, 807-816, 820-831, 835)					
73	TOTAL OPERATING AND MAINTENANCE EXPENSES (Enter total of lines 62, 63, 64, 65, 66, 68, 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 recovery 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.

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.

Prior to July 1, 1984, filings for 20 of the largest interstate pipeline companies were included in Table 5. Together, they accounted for between 86 and 88 percent of all interstate wellhead purchases reported on Form FERC-2 for each year between 1976 and 1982. These

companies were also the subject of an informal 1979 FERC study of NGPA prices.

The portion of the PGA filing used was generally referred to as the supporting cost-study. This study was not filed in a specific format or for specified time periods. As a result, the level of detail included varied from company to company, as did the exact time period covered. In most cases, however, companies filed price and volume data for their purchase contracts, along with the following:

- Contract date
- NGPA category
- Geographic source
- FERC account category.

For the 20 pipeline companies, the timing of PGA submissions varied in two ways:

- Seventeen companies reported data semi-annually, while three reported annually.
- The dates on which the filings became effective and the periods covered by the filings varied.

Because of the lack of a specified form for PGA filings, each submission was processed separately. Major adjustments required to transform the various submissions into a single data base are described in the section on data transformations.

Effective July 1, 1984, Form 542-PGA required that certain purchased gas cost information that is common to all PGA filings be set forth in a standardized format. Filings received after July 1, 1984, are now being included in Table 5 as they are computerized and become available. Eventually all pipeline companies that file the Form 542-PGA will be included in the table. It is expected that there will be approximately 54 companies included.

All PGA filings included projected purchases for a defined future period. 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. Some 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.

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 or 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:

**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.)	Section of NGPA Category Code			
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.)	Name		Seller Code	
	Street			
	City		State	Zip Code
5.0 Location of this well: (Complete (a) or (b).)				
(a) For onshore wells (35 letters maximum for field name.)	Field Name			
	County		State	
(b) For OCS wells	Area Name		Block Number	
	Date of Lease: Mo. Day Yr.			
	OCS Lease Number			
(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.)	Name		Buyer Code	
(b) Date of the contract:	Mo. Day Yr.			
(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:				
Agency Use Only				
Date Received by Juris. Agency				
Date Received by FERC				
	Name		Title	
	Signature			
	Date Application is Completed		Phone Number	

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.
- Not all companies filed actual totals.
- 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.

It appears that PGA data have become increasingly accurate and complete with each submission. The number of cases requiring imputation for missing data (for example, NGPA Section number) has been reduced, as has the incidence of obviously incorrect data. Moreover, company submissions have become increasingly consistent with each other.

Purchased volumes and prices were checked against control totals taken from the hard copy of the submission on file with the FERC. The data comprising inconsistent totals were compared directly with the filing. Discrepancies were forwarded to the FERC for consideration. Errors discovered in this way were corrected, and the process was repeated until agreement was reached.

PGA data (through mid-1982) were also compared with data from Form FERC-2 to ensure that the totals derived from the two sources were compatible. The two filings cannot be compared directly because the PGA is not usually filed for calendar years.

The results of this comparison suggest that PGA filings approximate the best currently available source for aggregate information, but do not match it very closely. Volumes can differ by as much as 20 percent (though many are very close). There is no consistent pattern of volume differences. In the case of prices, there appears to be two patterns: either the two reports agree quite closely, or else the PGA projects prices 10 to 20 percent lower than those reported on Form FERC-2. The reason for such consistent discrepancy is at present unknown. In general, differences between PGA filings and Form 2 information may be due to a variety of causes, including:

- PGA filings are projections that may not always reflect future behavior accurately.
- Companies may use different methods to obtain PGA projections.

- There may be systematic differences in reporting practices between the two reports for some or all companies.

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.

No further validation of the PGA data has been performed because of the difficulties involved in such a process. There are some procedural issues that may affect the accuracy of filings, however. PGA filings are not intended to serve as data collection instruments per se but as a regulatory system for natural gas. Questions concerning the data are usually aired during FERC rate hearings, where the primary concern is resolution of legal issues. No attempt is made to revise PGA submissions to reflect the results of such questioning. In addition, most PGA filings are protested and the resulting tariffs are suspended for a time. In cases of successful protests, a new PGA must be filed. The precise status of data on a given current submission becomes difficult to judge.

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 projected 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.

Imputation of NPGA Category Data. NGPA categories were not included in part or all of some early PGA filings. To make filings comparable, each contract that did not have a reported NGPA section was assigned one based on cost. The same procedure was used for reported NGPA sections when the prices were obviously inappropriate. Less than 10 percent of the volume was subjected to this procedure in any given month. Since the inception of the Form 542-PGA, NGPA categories are included in all PGA filings.

Miscellaneous Adjustments. Slight reporting discrepancies among the companies required further minor adjustments to the data base. The adjustments are as follows:

- All volumetric projections have been converted to monthly rates.
- In their PGA filing, many companies, in whole or in part, reported their gas volumes at a pressure base other than 14.73 psia. Volumes provided at the other pressure bases (14.65 and 15.025) were adjusted to the 14.73 psia level. The factors used in the adjustment were:
 - Volume (at 14.65) x 0.9946 = Volume (at 14.73)
 - Volume (at 15.025) x 1.02 = Volume (at 14.73).
- Volumetric data are presented in cubic feet, although several companies reported in therms for their hardcopy filings. Volumes in cubic feet are available on tape.
- All prices are reported in cents (or dollars and cents) per thousand cubic feet.

In filings received since July 1, 1984, all companies are reporting volumes in million Btu making pressure base adjustments to volumes unnecessary.

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.

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 (ERC) 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 import or export natural gas. The completed original and three copies are to be filed with the EIA on or before March 31 of each year, for the preceding calendar year. Companies that have not filed by March 31 are contacted.

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 completeness 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 is considered preliminary until the annual data on the Form FPC-14 is 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.

Survey Universe and Response Statistics

A sample of 408 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.

Form EIA-857

U.S. Department of Energy
Energy Information AdministrationForm Approved
OMB No. 19050175
Expires: 12/31/90

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: 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.

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 Mo.	Yr.	Revised Report Indicator
03		04

SECTION I — Natural Gas Purchases and Deliveries to Consumers

	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	
Transported to Commercial Consumers	09	
Transported to Industrial Consumers	10	
		(Btu/cu. ft.)
Average Btu Content of Gas Delivered to Consumers	11	

SECTION II — FOOTNOTES

SECTION III — CONTACT PERSON AND CERTIFICATION

Contact Person:	(Area Code—Number—Extension)	
12 Name:	13 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.		
Name:	Title:	
14	15	
Signature:	Date:	

EIA-857
(Revised 1988)

FEDERAL ENERGY REGULATORY COMMISSION
Washington, D.C. 20426

ANNUAL REPORT FOR
IMPORTERS AND EXPORTERS OF NATURAL GAS

Form Approved
OMB Number
Expiration Date
1902-0027
03/31/89

GENERAL INSTRUCTIONS

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

Name of Respondent	Address of Respondent	Year Ending December 31,
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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)	Foreign Seller or Foreign Buyer
<input type="checkbox"/> Import <input type="checkbox"/> Export	

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 (c)	McF (d)	
1	January					
2	February					
3	March					
4	April					
5	May					
6	June					
7	July					
8	August					
9	September					
10	October					
11	November					
12	December					
13	TOTAL					

ANNUAL WEIGHTED AVERAGE IN Btu's PER CUBIC FOOT
(Line 13; (Column (e) ÷ (Column (d) X 1000))

ANNUAL WEIGHTED AVERAGE PRICE IN CENTS PER MMBtu
(Line 13; Column (f) ÷ Column (e) X 100)

FPC-14 (8-82)

Appendix C

Statistical Considerations

Appendix C

Statistical Considerations

The monthly sales (volume and price) and monthly deliveries (volume) of natural gas by State presented in this report 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 natural gas marketers including interstate pipeline companies, intrastate pipeline companies, producers, and local distribution companies. It provides data that are used to estimate monthly onsystem sales of natural gas (volume and price) by State and monthly deliveries of natural gas (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 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 1,746 companies. These companies were respondents to the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for reporting year 1988. (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 gas sales and deliveries by the company during 1988. 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 408 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 sales, 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 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. This procedure ensured that large companies would be included since a few large companies often account for most of the volume of gas sales within a State. 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:

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

where:

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

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

Companies were listed in ascending order according to their measure of size and then a cumulative measure of size in the stratum was calculated for each company. The cumulative measure of size was the sum of the measures of size for that company and all preceding companies on the list. An interval (I) for selecting the companies systematically was calculated ($I = \frac{X2}{m}$). A uniform random number R was selected between zero and I . The first sampled company was the first company on the list to have a cumulative measure of size greater than R . The second company selected was the first company on the list to have a 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 12 States, the noncertainty stratum was divided into subgroups to ensure that gas in each consumer sector could be estimated. The systematic sample with probability proportional to size design described above was applied independently in each subgroup. The methods for determining the subgroup sample size and calculating the subgroup interval for sample selection were the same as the methods described above for the noncertainty stratum, except that $X2$ was

the sum within State of the X_i for only those companies in the subgroup.

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

West Virginia: companies handling only residential/commercial gas and all other companies.

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

Alabama, Illinois, Kentucky, and Ohio: companies handling any 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 0.5 million cubic feet or more of gas and companies handling less than 0.5 million cubic feet of gas.

Colorado: companies handling 1 million cubic feet or more of gas and companies handling less than 1 million 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_{ij}) for the volume of gas in consumer sector j is:

$$E_{ij} = \frac{Y_j}{Y'_{ij}} \quad (3)$$

where:

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

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

The ratio estimator is applied as follows:

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

where:

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

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

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:

$$E_{yj} = \frac{Z_j}{Z'_j},$$

where:

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

Z'_j = 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:

$$R_j = z_j \times E_{yj}$$

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 in the commercial and industrial sectors 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. Virtually all natural gas deliveries to the residential sector represent sales volumes only.

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.

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

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

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

where:

F_t = imputed gas volume for current month t,

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

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

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

Final Revisions

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

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

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

The formula for revising the estimated consumption is:

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

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:

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

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.

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 C2. 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, August 1990

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Foot			
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial	Total
Alabama	146	58	459	485	.69	.22	.34	.44
Alaska	0	0	0	0	.00	.00	.00	.00
Arizona	9	8	0	12	.00	.01	.00	.04
Arkansas	25	27	546	547	.13	.04	.45	.54
California	344	328	353	593	.07	.04	.01	.06
Colorado	15	22	790	791	.95	.02	.34	.83
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	29	136	597	613	.22	.09	.46	.54
Georgia	128	203	700	741	.20	.40	.32	.71
Hawaii	0	0	0	0	.00	.00	.00	.00
Idaho	0	0	0	0	.00	.00	.00	.00
Illinois	180	301	61	356	.10	.24	.02	.13
Indiana	28	74	760	764	.58	.31	.16	.33
Iowa	3	8	32	33	.02	.01	.02	.09
Kansas	0	0	0	0	.00	.00	.00	.00
Kentucky	33	76	105	134	.16	.06	.66	1.14
Louisiana	19	4	13,714	13,714	.30	.01	.05	1.09
Maine	0	0	0	0	.00	.00	.00	.00
Maryland	9	8	99	100	.01	.02	.01	.28
Massachusetts	13	118	723	732	.20	.34	.04	.37
Michigan	339	300	3,411	3,441	.15	.08	.19	.33
Minnesota	155	80	646	669	.46	.15	.12	.25
Mississippi	127	118	842	859	.05	.15	.19	1.52
Missouri	121	188	87	240	.03	.13	.08	.25
Montana	2	2	0	2	.01	.01	.00	.02
Nebraska	20	198	85	216	.08	.01	.06	.23
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	52	262	0	267	.25	1.01	.00	1.22
New York	390	1,250	1,526	2,011	.32	.05	.32	.58
North Carolina	9	10	307	308	.11	.02	.15	.39
North Dakota	0	0	0	0	.00	.00	.00	.00
Ohio	242	124	8,306	8,310	.05	.02	.11	.17
Oklahoma	152	92	23	179	.99	.09	.02	.14
Oregon	0	0	0	0	.00	.00	.00	.00
Pennsylvania	27	123	776	787	.04	.13	.92	.83
Rhode Island	0	0	0	0	.00	.00	.00	.00
South Carolina	23	94	924	929	.52	.03	.22	.35
South Dakota	0	0	0	0	.00	.00	.00	.00
Tennessee	54	70	793	798	.10	.09	.13	.55
Texas	60	14,798	10,777	18,307	.01	2.20	.12	.90
Utah	0	0	0	0	.00	.00	.00	.00
Vermont	0	0	0	0	.00	.00	.00	.00
Virginia	52	83	665	672	.10	.17	.55	.95
Washington	0	0	0	0	.00	.00	.00	.00
West Virginia	19	46	2	49	.55	.16	.00	.28
Wisconsin	43	102	564	574	.33	.05	.12	.16
Wyoming	11	69	71	100	.37	.86	.19	.86
U.S. Totals	783	14,871	19,862	24,825	.06	32	17	12

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

$$V(Y) = \sum_{h=1}^s \left[N_h^2 \frac{(1 - \frac{n_h}{N_h})}{n_h(n_h-1)} \left(\sum_{i=1}^{n_h} (y_{it} - Tx_{it})^2 \right) \right] \quad (8)$$

where:

N_h = the total number of companies in stratum h

n_h = the sample size in stratum h

y_{it} = the reported monthly volume for company i

x_{it} = the reported annual volume for company i

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

Appendix D

Natural Gas Reports and Feature Articles

Appendix D

Natural Gas Reports and Feature Articles

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

- *Natural Gas Annual 1989*, DOE/EIA-0131(89), September 1990.
- *Statistics of Interstate Natural Gas Pipeline Companies 1988*, DOE/EIA-0145(88), November 1989. Published annually.
- *Gas Supplies of Interstate Natural Gas Pipeline Companies 1988*, DOE/EIA-0167(88), December 1989. 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 - 1989 Annual Report*, DOE/EIA-0216(89), September 1990.
- *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 1989*, DOE/EIA-0173(89), March 1990. Published annually.
- *Annual Energy Outlook 1990*, DOE/EIA-0383(90), January 1990. Published annually.
- *Annual Energy Review 1989*, DOE/EIA-0384(89), May 1990. 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: 1990*, DOE/EIA-0517(90), May 1990.
- *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.

Selected and Recurring Natural Gas and Related Data Reference Reports

- *Directory of Energy Data Collection Forms*, DOE/EIA-0249(89), January 1990.
- *Oil and Gas Field Code Master List, 1989*, EIA-0370(89), January 1990.

NGM Feature Articles

March 1987

Estimated Distribution of Proved Natural Gas Reserves Among the Geologic Provinces of the Lower 48 States

(Presents an overview of the methodology and procedures employed in the formulation of certain positions of EIA's annual reserves study.)

April 1987

Contract Provisions Covering Production of New Gas

(Discusses various types of contract provisions included in recent natural gas contracts.)

May 1987

U.S. Imports and Exports of Natural Gas 1986

(Provides final 1986 data on all U.S. imports and exports of natural gas.)

July 1987

Underground Storage of Natural Gas

(Presents an analysis of the natural gas storage facilities and statistics.)

Domestic Natural Gas Reserves and Production Dedicated to Interstate Pipeline Companies, 1986

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

October 1987

Main Line Natural Gas Sales to Industrial Users, 1986

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

December 1987

Overview of Wellhead Purchases by Interstate Natural Gas Pipeline Companies Since the NGPA

(Presents an overview of gas purchasing trends and practices since 1979.)

January 1988

Gas Deliverability in Louisiana

(Provides information on the levels of natural gas deliverability in the State of Louisiana.)

April 1988

Overview of Pipeline Take-or-Pay Exposure: 1983-1987

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

June 1988

Domestic Natural Gas Reserves and Production Dedicated to Interstate Pipeline Companies, 1987

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

July 1988

U.S. Imports and Exports of Natural Gas - 1987

(Contains final 1987 data on all U.S. imports and exports of natural gas.)

September 1988

Status of Coalbed Methane Recovery in the United States

(Presents an overview of coalbed methane gas in the U.S.)

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.)

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"	Sheila Darnell (202) 586-6165
Extraction Loss	1	Monthly: Annual:	EIA computations Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"	Margo Natof (202) 586-6303
Supplemental Gaseous Fuels	2	Monthly: Annual:	EIA computations Form EIA-176, "Annual Report of Natural and Supplemental Gas Sup- ply and Disposition"	Margo Natof (202) 586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Form EPC-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 Pipe- line Company Monthly Statement"	James Keeling (202) 586-6107
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-627, "Annual Quantity and Value of Natural Gas Report"	Sheila Darnell (202) 586-6165
Electric Utility	4	Monthly:	Form EPC-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 Im- ports and Exports	6	Quarterly:	Form EPC-14, "Annual Report for Importers and Exporters of Natural Gas" and "Quarterly Sales and Price Report"	James Todaro (202) 586-6305
Producer Related Activities: Natural Gas Production	7	Monthly:	Interstate Oil Compact Commission (IOCC)	Sheila Darnell (202) 586-6165
Well Determination Filings	8, 9, 10,	Monthly:	Form FERC-121, "Application for Determination of Maximum Lawful Price Under the Natural Gas Policy Act"	Norman Crabtree (202) 586-6180
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 Pipe- line 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) 586-4780
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

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. [3]

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: Independent natural gas producers subject to the jurisdiction of the FERC.

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 lease operations, as gas processing plant fuel, and net used for gas lift.

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

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

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.

Native Gas: Gas in place at the time that a reservoir was converted to use as an underground storage reservoir. Excludes quantities of gas added or injected.

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 for pressure maintenance and cycling purposes.

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.

Unaccounted For: 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.

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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