# Natural Gas 1999: A Preliminary Summary

This Special Report provides preliminary natural gas data for 1999 which were reported on monthly surveys of the industry through December. These data will be revised and become final with the release of the *Natural Gas Annual 1999* in the fall of 2000. That report will include data from an annual survey of the industry.

#### **Production and Wellhead Prices**

Dry natural gas production in 1999 is estimated to have been 18,660 billion cubic feet, just slightly below the level of 18,708 billion cubic feet in 1998. Annual production has been fairly stable since the increase of 4 percent that occurred in 1994. Dry production in 1999 is 5 percent higher than at the beginning of the decade.

Daily rates of production in each month are fairly steady during any year, but the range was a bit narrower in 1999 than in 1998. During 1999, the daily rate of dry production varied from a low of 50.1 billion cubic feet per day in August to a high of 52.2 billion cubic feet per day in February. During 1998, daily production rates varied from 48.5 to 52.8 billion cubic feet per day, in September and January, respectively.

State-level production data for 1999 are for marketed production, that is, natural gas that has not yet been processed for the removal of liquids and nonhydrocarbon gases. (Dry production data by State will be available in the fall of 2000 in the Energy Information Administration's *Natural Gas Annual* 1999.) Marketed production in 1999 was estimated to have been 19,611 billion cubic feet, less than 1 percent below the 1998 level of 19,646 billion cubic feet. Texas and Louisiana<sup>1</sup> together account for 60 percent of U.S. marketed production—32 percent for Texas and 28 percent for Louisiana. The next two largest producers are Oklahoma and New Mexico, with 8 percent each. A total of 32 States reported measurable production in 1999.

The largest changes in marketed production from 1998 to 1999 took place in Texas and New Mexico. Marketed production dropped by 118 billion cubic feet in Texas, but this was a change of only 2 percent for the State. In New Mexico, marketed production increased by 97 billion cubic feet or 6 percent. The next largest changes were an increase of 51 billion cubic feet, or 16 percent, in California and a decline of 50 billion cubic feet, or 8 percent, in Kansas.

The average natural gas wellhead price in 1999 was \$2.07 per thousand cubic feet according to preliminary estimates. This was 7 percent higher than in 1998, but 11 percent lower than in 1997. Monthly average wellhead prices were flat or increasing during most of 1999, and for August through November, they were at least 25 percent higher than for those same months in 1998. The wellhead price reached its high for the year at \$2.44 per thousand cubic feet in November 1999, then fell 17 percent to \$2.03 per thousand cubic feet in December, similar to the decline in the futures market price for December deliveries at the Henry Hub (on the New York Mercantile Exchange). The lowest monthly wellhead price during 1999 was \$1.70 per thousand cubic feet in March.

The monthly pattern of working gas stocks in underground storage facilities in 1999 compared with 1998 may have contributed to the general rise in

<sup>1</sup> The estimate of marketed production for Louisiana for 1999 includes the total of Federal offshore production for both Louisiana and Alabama. This estimate will be allocated to the States in the Energy Information Administration's *Natural Gas Annual 1999*, which should be available in the fall of 2000. Data for 1998 were adjusted to allow for consistent State-level comparisons in this analysis. Federal offshore production in Alabama in 1998 was 171 billion cubic feet.

wellhead prices later in the year. In January 1999, working gas was an estimated 22 percent higher than it had been in January 1998, and in February 1999, it was 26 percent higher than in February 1998. The difference in the amount of working gas between 1999 and 1998 declined in the following months, and by July 1999, the working gas was below that of 1998, though by only 2 percent. The gap generally widened through the rest of the year with the 1999 level remaining below that of 1998. By December 1999, there was 2,509 billion cubic feet of working gas, 8 percent less than in December 1998.

### Imports

Natural gas imports increased for the 13<sup>th</sup> consecutive year in 1999 to over 3.5 trillion cubic feet. (Table SR3) Imports, both pipeline and liquefied natural gas (LNG), grew by 13 percent, the largest annual growth rate of the past 5 years. Imports continued to increase in 1999 because of several factors, including Canadian-U.S. border pipeline expansions and a growth in LNG imports. Pipeline imports from Canada still represented the bulk of total imports, 94 percent in 1999, although imports of LNG increased from 3 percent of the total in 1998 to 5 percent in 1999.

Net imports have become and are increasingly a major contributor of natural gas to the U.S. marketplace. Net imports for 1999 totaled 3.5 trillion cubic feet, which accounted for 16 percent of total natural gas consumption in the United States. Every month in 1999 had a higher volume of net imports than for the same month in 1998. The monthly volume in 1999 ranged from 275 billion cubic feet in June to 311 billion cubic feet in August.

Pipeline imports from Canada increased by 10 percent between 1998 and 1999. Imports of Canadian gas are expected to increase in the future because of the recently opened Northeast and Maritimes Pipeline, which is expected to deliver over 400 million cubic feet per day to the Northeast by fall 2000. Canadian flow capacity to the Northeast has already grown significantly, reaching 3,295 million cubic feet per day in 1999, up 20 percent, from 2,739 million cubic feet per day in 1998.

LNG imports made a significant impact on U.S. markets in 1999, representing 5 percent of total imports. LNG imports reached 160 billion cubic feet, the highest level ever recorded and almost twice the volume of 1998 (85 billion cubic feet). This significant annual increase could be a result of more diversified sources of LNG and an increase in short-term sellers of LNG. In 1998, Algeria supplied 80 percent of the LNG imports to the United States, whereas in 1999, Algeria supplied only 46 percent of LNG imports. The other 54 percent came from Trinidad, Qatar, Australia and Malaysia. This rapid growth in LNG imports can be mainly attributed to the new Atlantic LNG project in Trinidad, which provided 31 percent of LNG imports for 1999, even though shipments only began in May 1999. In addition to the two operational LNG receiving terminals in Lake Charles, Louisiana, and Everett, Massachusetts, a retired LNG receiving terminal in Cove Point, Maryland will be reopened to receive deliveries in 2002, evidence of the growing demand in the LNG sector.

Similar to the growth in wellhead prices, the price of pipeline imports from Canada increased in 1999. Prices averaged \$2.28 per thousand cubic feet, up 17 percent from 1998 and 6 percent from 1997. In contrast, the average price of LNG imports decreased by 5 percent in 1999 from \$2.63 per thousand cubic feet in 1998 to \$2.51 per thousand cubic feet.

## **Exports**

For the fourth consecutive year, exports of natural gas increased. Exports totaled 167 billion cubic feet in 1999, with 103 billion cubic feet as pipeline exports to Canada and Mexico and 64 billion cubic feet as LNG exports to Japan and Mexico. All exports increased in volume except LNG exports to Japan which decreased by 4 percent from the 1998 level. This followed an increase of 6 percent in 1997. The largest increase occurred in LNG exports to Mexico, which totaled 255 million cubic feet compared with 33 million cubic feet in 1998. LNG represents 38 percent of total U.S. exports.

The average price of total exports increased slightly, from \$2.45 in 1998 to \$2.58 in 1999. All countries receiving U.S. gas exports in 1999 paid higher average prices than in 1998, with the exception of Japan. The export price of LNG to Japan continues to decline, decreasing by 2 percent since 1998 and by 34 percent since 1997. LNG exports to Mexico had the largest increase in average prices with a gain of 25 percent between 1998 and 1999.

## **End-Use Consumption**

Consumption of natural gas by end-use customers in 1999 was estimated at 19.5 trillion cubic feet, 2 per-

cent above the level in 1998. Increases in residential and commercial consumption between 1998 and 1999 were offset by declines in natural gas consumption in the industrial and electric utility sectors.

The residential sector saw the largest increase in natural gas consumption during 1999. Residential natural gas consumption during this period was estimated at 4.7 trillion cubic feet, up 154 billion cubic feet (3 percent) from the previous year. Natural gas use by residential customers during the first quarter of the year is greatly influenced by weather because of space heating requirements. During this period, January through March in both 1999 and 1998, warmer-than-normal weather was experienced, as measured by heating degree days, but the early months of 1999 were colder than in 1998, which contributed to the increased natural gas consumption relative to 1998. Residential demand in 1999 was higher than in 1998 for all months except July, August, and November. In the East North Central region, which consumes the most residential natural gas of the regions, three States saw significant increases in natural gas consumption during 1999. Wisconsin had an increase of 12 billion cubic feet (10 percent) from 1998 to 1999 while Illinois had an increase of 35 billion cubic feet (9 percent), and Michigan an increase of 30 billion cubic feet (9 percent).

Commercial consumption of natural gas in 1999 was estimated at 3.1 trillion cubic feet, an increase of 2 percent from the 3.0 trillion cubic feet the previous year. As is the case with the residential sector, the use of natural gas by commercial customers is largely to meet space-heating requirements. The slight increase in commercial consumption during 1999 also may be explained in part by the colder weather seen during the first quarter of 1999 as compared with the same period the previous year. During 1999, consumption increased relative to 1998 for all months except July, November, and December.

Consumption of natural gas by the industrial sector in 1999 was estimated at 8.7 trillion cubic feet. This estimate is less than 1 percent below the 1998 level of industrial consumption, and 2 percent less than the level in both 1996 and 1997. During 1999, natural gas consumption by electric utilities was 3.1 trillion cubic feet, indicating a 4 percent decrease from the 3.3 trillion cubic feet reported in 1998.

The decline in gas consumption by electric utilities reflects changes as a result of the restructuring of that industry. When a generating plant is sold to an entity that is not a regulated utility, the classification of that plant immediately changes. For purposes of data gathering, the Energy Information Administration (EIA), conducts separate consumption surveys from both electric utilities (regulated entities) and nonutility generators (nonregulated entities). According to EIA's Electric Power Monthly, April 2000 (page 5), the sale of generating plants by regulated utilities has had a substantial effect on consumption of gas reported during 1999. When an electric utility is sold, gas previously reported as consumed by an electric utility is now intended to be reported as consumed by a nonutility generator. Data from EIA's survey of nonutility generators (Form EIA-900) indicate that during 1999 the generating plants involved in those sales consumed 370 billion cubic feet of natural gas following their sale. EIA includes nonutility gas consumption in industrial consumption.

EIA continuously conducts quality assurance activities to ensure that the data it reports are of the highest quality. We are currently investigating the reporting of gas consumption data to determine potential survey design and reporting problems that may arise as restructuring of the electric utility industry proceeds.

### **City Gate and End-Use Prices**

Following the pattern of wellhead prices, city gate and electric utility prices rose substantially from August through December 1999. However, declines in prices earlier in the year somewhat offset these increases. The average city gate price for 1999 was \$3.11 per thousand cubic feet, only 1 percent more than the 1998 price and still well below the 1997 price of \$3.66 per thousand cubic feet. The average price paid by electric utilities reached \$2.56 per thousand cubic feet in 1999, 7 percent higher than a year ago, mirroring the percentage increase seen for wellhead prices, but 8 percent less than the 1997 price of \$2.78 per thousand cubic feet. The State of Texas accounted for 39 percent of natural gas consumption by electric utilities during 1999. This State saw a 9-percent increase from 1998 to 1999 in the electric utility gas price.

Although the residential and commercial sectors benefit from decreases in wellhead prices, the response is delayed. From 1997 to 1998, there were sharp declines of 16 percent in the average wellhead and city gate prices, but much more modest declines in the residential (2 percent) and commercial (6 percent) sectors. These declines continued into 1999 as prices in these sectors fell again by 3 to 4 percent.

Residential consumers<sup>2</sup> continue to pay the highest price for natural gas. They paid an average price of \$6.61 per thousand cubic feet in 1999, \$0.21 less than in 1998. These consumers require service on demand which peaks during the heating season. Commercial consumers paid the second highest average price for gas, \$5.26 per thousand cubic feet, \$0.22 lower than a year ago. Much of the demand for gas in this sector is for space heating, making it highly responsive to weather conditions. The average price of gas for industrial consumers was \$3.04 per thousand cubic feet in 1999, \$0.10 lower than in 1998. The industrial price is the average price paid by those companies that continue to buy gas from local distribution suppliers. These suppliers accounted for only 17 percent of total deliveries to industrial end users in 1999.

<sup>2</sup> End-use prices in the residential, commercial, and industrial sectors are for onsystem gas sales only. While monthly onsystem sales are nearly 100 percent of residential deliveries, in 1999 they were 65 percent of commercial deliveries and only 17 percent of industrial deliveries.

#### SR1. Summary Statistics for Natural Gas in the United States, 1995-1999

	1995	1996	1997	1998	1999
Production (million cubic feet) Gross Withdrawals			1		
From Gas Wells	17,282,032	17,737,334	17,844,046	17,558,621	17,679,309
From Oil Wells	6,461,596	6,376,201	6,368,631	6,365,612	6,273,573
Total	23,743,628	24,113,536	24,212,677	23,924,233	23,952,881
Repressuring	-3 565 023	-3 510 753	-3 491 542	-3 433 323	-3 527 819
Nonhydrocarbon Gases Removed	-388 302	-518 /25	-508 601	-611 226	-560 851
Wet After Lesse Separation	10 700 213	20 084 357	20 122 444	10 870 684	10 864 211
Vertad and Elarad	19,790,213	20,004,337	20,122,444	19,079,004	19,004,211
vented and Flared	-283,739	-272,117	-256,351	-234,130	-252,929
Marketed Production	19,506,474	19,812,241	19,866,093	19,645,554	19,611,282
Extraction Loss	-907,795	-958,178	-963,759	-937,798	-951,147
Total Dry Production	18,598,679	18,854,063	18,902,334	18,707,756	18,660,135
Supply (million cubic feet)					
Dry Production	18,598,679	18,854,063	18,902,334	18,707,756	18,660,135
Receipts at U.S. Borders					
Imports	2,841,048	2,937,413	2,994,173	3,152,058	3,547,832
Intransit Receipts	492,481	536,333	548,000	481,581	NA
Withdrawals from Storage	,	*	,	,	
Underground Storage	2.974.102	2.911.327	2.824.245	2.377.344	2,696,581
I NG Storage	50 446	69 287	69.517	54 365	NA
Supplemental Gas Supplies	110 290	109 455	103 153	102 189	95 358
Balancing Itom	220,002	217 114	61 024	22,220	001 800
Datancing item	-230,002	217,114	01,024	-35,550	-901,809
Total Supply	24,837,044	25,634,990	25,502,445	24,841,963	24,098,097
Disposition (million cubic feet)					
Consumption	21 580 665	21 966 616	21 958 660	21 262 023	21 375 503
Deliveries at LLS Borders	21,000,000	21,000,010	21,000,000	21,202,020	21,070,000
Evporto	154 110	152 202	157.006	150.007	167 165
Intropolit Deliveries	104,119	T00,000	137,000 F16,600	159,007	107,133
	492,461	536,333	516,620	459,461	INA
Additions to Storage					
Underground Storage	2,565,882	2,905,592	2,800,294	2,903,585	2,555,438
LNG Storage	43,897	73,057	69,865	57,887	NA
Total Disposition	24,837,044	25,634,990	25,502,445	24,841,963	24,098,097
Consumption (million cubic feet)					
Lease and Plant Fuel	1 220 168	1 249 662	1 203 179	1 157 498	1 227 666
Pineline Fuel	700 335	711 446	751 470	635 477	638 869
Delivered to Concurrence	700,555	711,440	751,470	033,477	030,009
Posidontial	4 950 219	5 241 414	4 083 772	1 520 276	4 674 272
Commercial	4,030,310	3,241,414	4,903,772	4,520,270	4,074,273
	3,031,077	3,130,244	3,214,912	2,999,491	3,000,383
Industrial	8,579,585	8,870,422	8,832,450	8,686,147	8,660,692
Venicle Fuel	2,674	2,932	4,424	5,079	NA
Electric Utilities	3,196,507	2,732,496	2,968,453	3,258,054	3,113,420
Total Delivered to Consumers	19,660,161	20,005,508	20,004,012	19,469,047	19,508,967
Total Consumption	21,580,665	21,966,616	21,958,660	21,262,023	21,375,503
Average Prices for Natural Gas					
(dollars per thousand cubic feet)					
Wellhead (Marketed Production)	1.55	2.17	2.32	1.94	2.07
Imports	1.49	1.97	2.17	1.97	2.29
Exports	2.39	2.97	3.02	2.45	2.58
City Gate	2.78	3.27	3.66	3.07	3.11
Delivered to Consumers					
Residential	6.06	6.34	6 94	6 82	6 61
Commercial	5.05	5 40	5 80	5 4 8	5 26
Industrial	2 71	2 /2	3 50	2 1/	3.01
Electric I Itilities	2.71	2.60	2.23	2.14	0.04
	2.02	2.09	2.10	2.40	2.02

NA = Not available.

NA = Not available. Notes: Beginning in 1987, prices for gas delivered to consumers are calculated using only on-system sales data. No imputations are made for prices of gas delivered for the account of others. In previous years, prices were calculated using reported values and values imputed for gas delivered for the account of others. The United States includes the 50 states and the District of Columbia. Totals may not equal sum of components due to independent rounding. Beginning in 1996, consumption of natural gas for agricultural use was classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use.

tity and Value of Natural Gas Report" (1995); Form EIA-895, "Monthly Quantity and Value of Natural Gas Report" (1996 through 1999); Form EIA-877, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-816, "Monthly Natural Gas Liquids Report"; Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"; Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Report"; Form EIA-64A, "Annual Report"; Form EIA-64A, "Monthly Power Plant Report"; Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"; Form EIA-191, "Underground Gas Storage Report"; Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports; U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual Reports, DOE/EIA-0216; and the U.S. Minerals Management Service.

Sources: Energy Information Administration (EIA), Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"; Form EIA-627, "Annual Quan-

# SR2. Gross Withdrawals and Marketed Production of Natural Gas by State, 1999

(Million Cubic Feet)

	Gross Withdrawals				Nonhydro-	Vented	
State	From Gas Wells	From Oil Wells	Total	Repressuring	carbon Gases Removed	and Flared	Marketed Production
Alabama	413,497	7,039	420,536	13,793	23,956	1,085	381,702
Alaska	178,470	3,142,326	3,320,797	2,854,134	0	6,797	459,865
Arizona	475	3	478	0	0	0	478
Arkansas	162,537	27,216	189,753	1,123	0	52	188,578
California	88,996	327,819	416,815	47,968	1,952	950	365,945
Colorado	649,292	100,191	749,483	6,397	0	802	742,284
Florida	0	6,702	6,702	0	769	0	5,933
Illinois	167	5	172	0	0	0	172
Indiana	384	0	384	0	0	0	384
Kansas	503,025	51,893	554,918	943	0	555	553,419
Kentucky	91,067	0	91,067	0	0	0	91,067
Louisiana	4,817,825	724,258	5,542,084	43,466	0	23,775	5,474,842
Maryland	82	0	82	0	0	0	82
Michigan	226,423	56,606	283,028	1,994	0	2,832	278,202
Mississippi	121,006	5,750	126,757	6,286	6,703	2,745	111,022
Montana	50,073	6,828	56,901	62	0	0	56,840
Nebraska	907	313	1,220	0	0	0	1,220
Nevada	0	8	8	0	0	0	8
New Mexico	1,507,455	262,440	1,769,895	10,768	158,130	2,869	1,598,128
New York	16,335	264	16,599	0	0	5	16,594
North Dakota	15,772	39,780	55,552	0	78	2,752	52,722
Ohio	103,193	0	103,193	0	0	0	103,193
Oklahoma	1,447,180	156,976	1,604,156	0	0	0	1,604,156
Oregon	1,555	0	1,555	50	213	0	1,291
Pennsylvania	59,504	0	59,504	0	0	0	59,504
South Dakota	677	7,162	7,839	0	5,157	1,289	1,393
Tennessee	0	1,345	1,345	0	0	0	1,345
Texas	5,564,396	1,248,033	6,812,429	387,107	198,030	26,506	6,200,786
Utah	238,947	38,020	276,967	519	0	13,835	262,614
Virginia	42,834	0	42,834	0	0	0	42,834
West Virginia	175,310	0	175,310	0	0	0	175,310
Wyoming	1,201,926	62,594	1,264,520	153,208	165,863	166,080	779,369
Total	17,679,309	6,273,573	23,952,881	3,527,819	560,851	252,929	19,611,282

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA), Form EIA-895, "Monthly Quantity and Value of Natural Gas Report."

#### SR3. Summary of U.S. Natural Gas Imports and Exports, 1995-1999

	1995	1996	1997	1998	1999
Imports					
Volume (million cubic feet)					
Canada	2 816 408	2 883 277	2 899 152	3 052 073	3 332 658
Mexico	6,722	13.862	17.243	14.532	54.528
Total Pipeline Imports	2.823.130	2.897.138	2.916.394	3.066.605	3.387.186
LNG	_,,	_,,	_,_ ,_ ,_ ,_ ,	_,,	-,,
Algeria	17,918	35,325	65,675	68,567	74,612
Australia	_	_	9,686	11,634	11,903
Malaysia	—	—	—	—	2,576
Qatar		_	—	—	19,532
Trinidad					49,310
United Arab Emirates		4,949	2,417	5,252	2,713
Total LNG Imports	17,918	40,274	77,778	85,453	160,646
l otal imports	2,841,048	2,937,413	2,994,173	3,152,058	3,547,832
Average Price (dollars per thousand cubic feet) Pineline					
Canada	1.48	1.96	2.15	1.95	2.28
Mexico	1.53	2.25	2.31	2.03	2.17
Total Pipeline Imports	1.48	1.96	2.15	1.95	2.28
Algeria	2.30	2.70	2.67	2.51	2.50
Australia	—	—	2.92	3.30	2.70
Malaysia	_	_	_	_	2.37
Qatar	—	_	_	_	2.66
Trinidad		—	—	—	2.41
United Arab Emirates		3.46	3.74	2.63	2.97
Total LNG Imports	2.30	2.80	2.74	2.63	2.51
l otal Imports	1.49	1.97	2.17	1.97	2.29
Exports					
Volume (million cubic feet)					
Canada	27 554	51 005	56 117	20 901	42 261
Mexico	61 283	33 840	38 372	53 133	61 025
Total Pipeline Exports	88 836	85 745	94 818	93 023	103 386
I NG	66,656	00,140	54,610	55,025	100,000
Japan	65.283	67.648	62.187	65.951	63.514
Mexico	0	0	0	33	255
Total LNG Exports	65,283	67,648	62,187	65,984	63,769
Total Exports	154,119	153,393	157,006	159,007	167,155
Average Price (dollars per thousand cubic feet)					
Pipeline	1.06	2.67	2.52	2.25	2.24
Movico	1.90	2.07	2.52	2.20	2.34
Total Pineline Exports	1.50 1.64	2.11	∠.40 2 /0	∠.∪4 2 13	2.44
	1.04	2.40	2.49	2.13	2.40
Janan	3 41	3 65	3 83	2 91	2.86
Mexico				5.69	7 11
Total LNG Exports	3.41	3.65	3,83	2.91	2.88
Total Exports	2.39	2.97	3.02	2.45	2.58
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— = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports.

#### SR4. Additions to and Withdrawals from Gas Storage by State, 1999 (Million Cubic Feet)

		Underground Storage		Total			
State	Injections	Withdrawals	Net	Number of Active Fields	Capacity (billion cubic feet)	Percent of U.S. Capacity	
Alabama Arkansas California Colorado	2,646 5,784 135,049 37,674	2,482 6,017 133,915 36,524 224 818	-164 233 -1,134 -1,151 402	0 2 9 9	3 24 388 100	0.04 0.30 4.75 1.22	
IIII1015	225,510	224,010	-492	30	099	10.99	
Indiana Iowa Kansas Kentucky Louisiana	20,502 74,364 103,217 55,836 256,533	20,689 75,210 120,213 58,092 251,711	187 846 16,997 2,256 -4,822	28 4 18 25 14	113 273 301 220 564	1.38 3.34 3.68 2.69 6.89	
Maryland Michigan Minnesota Mississippi Missouri	18,802 338,831 1,383 46,405 3,159	18,724 372,798 1,131 60,710 2,601	-78 33,967 -253 14,304 -557	1 49 1 7 1	62 1,022 7 134 31	0.76 12.49 0.09 1.64 0.38	
Montana Nebraska New Mexico New York Ohio	20,231 6,097 17,460 53,534 176,850	28,425 5,802 15,167 62,307 192,550	8,194 -294 -2,293 8,773 15,699	5 1 3 22 24	372 39 97 175 575	4.54 0.48 1.18 2.14 7.03	
Oklahoma Oregon Pennsylvania Tennessee Texas	120,024 7,588 316,981 593 279,578	109,517 7,178 337,444 565 279,965	-10,508 -409 20,463 -28 387	13 3 59 1 34	395 12 685 1 684	4.83 0.14 8.37 0.01 8.37	
Utah Virginia Washington West Virginia Wyoming Total	37,380 2,398 20,209 159,560 11,458 <b>2,555,438</b>	46,573 2,527 17,667 194,794 10,463 <b>2,696,581</b>	9,193 129 -2,543 35,234 -995 <b>141,142</b>	3 2 1 36 7 <b>413</b>	122 5 37 733 106 <b>8,179</b>	1.49 0.06 0.46 8.96 1.29 <b>100.00</b>	
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Note: Totals may not equal sum of components due to independent rounding.

**Source:** Energy Information Administration, Form EIA-191, "Underground Gas Storage Report."

# SR5. Natural Gas Delivered to Consumers by State, 1999 (Million Cubic Feet)

State	Residential	Commercial	Industrial	Electric Utilities	Delivered to Consumers
	10 500				
Alabama	43,592	28,887	204,829	20,897	298,206
Alaska	17,634	27,122	74,491	30,554	149,801
Arizona	32,827	31,242	26,246	50,876	141,191
Arkansas	NA	NA	NA	40,059	NA
California	568,355	262,681	944,597	144,796	1,920,430
Colorado	113,871	NA	NA	19,149	274,103
Connecticut	37,683	46,552	31,800	13,086	129,120
Delaware	8,845	6,029	21,948	19,873	56,695
District of Columbia	NA	NA	0	0	NA
Florida	13,025	35,121	142,104	319,351	509,601
Georgia	NA	NA	NA	20,507	NA
Hawaii	524	1,749	463	0	2,735
Idaho	17.870	12.624	33.831	0	64,325
Illinois	445 054	187 862	309 467	40 700	983 082
Indiana	NA	NA	NA	7,648	NA
lowa	71.541	44.813	103.860	5.245	225.459
Kansas	NA	NA	NA	35,857	NA
Kentucky	59 662	36 301	92 683	5 585	194 231
Louisiana	44 525	23 541	969 981	320 367	1 358 414
Maine	965	2,555	2,507	0	6,028
Maryland	NΔ	NΔ	39 858	16 382	NΔ
Massachusette	NA	NA	NA	8 136	NA
Michigan	3/0 33/	175 362	285 977	51 136	861 809
Minnesota	NA	89.025	205,577	6 590	NA
Mininesola		09,025		101 612	
	INA	INA	INA	101,013	INA
Missouri	112,803	63,897	NA	19,400	NA
Montana	19,684	11,931	23,091	289	54,995
Nebraska	40,412	28,000	39,589	4,548	112,549
Nevada	28,924	23,690	33,250	65,131	150,997
New Hampshire	6,626	NA	5,787	572	NA
New Jersey	NA	NA	NA	32.615	NA
New Mexico	39 727	30 883	NA	35 594	NA
New York	NA	NA	NA	181 817	NA
North Carolina	53 069	38 899	113 506	10 562	216 037
North Dakota	NA	NA	NA	10,002	NA
				0	
Ohio	NA	NA	NA	11,097	NA
Oklahoma	62,023	38,315	141,679	169,826	411,843
Oregon	37,974	28,340	NA	23,309	NA
Pennsylvania	240,754	143,660	242,580	10,363	637,358
Rhode Island	16,601	11,838	34,857	0	63,296
South Carolina	25,708	21,461	103,249	5,107	155,526
South Dakota	11,766	9,578	5,036	2,526	28,906
Tennessee	NA	ŇA	NA	3.453	ŃA
Texas	167.593	187,948	NA	1.207.294	NA
Utah	55,474	30,361	40,988	6,481	133,303
Vermont	2,585	2,409	2,819	249	8,062
Virginia	NA	59,723	95,232	23,459	247,439
Washington	NA	NA	NA	6.700	ŇĂ
West Virginia	NA	NA	NA	386	NA
Wisconsin	127,909	87.810	147.543	14.068	377.330
Wyoming	11,926	9,216	NA	167	NA
Total	4.674.273	3.060.583	8.660.692	3.113.420	19.508.967
	.,	-,,	-,,=	-,	,,

NA = Not available.

**Note:** Totals may not equal sum of components due to independent rounding.

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

# SR6. Average Prices of Natural Gas by State, 1999 (Dollars per Thousand Cubic Feet)

State	City Gate	Residential	Commercial	Industrial	Electric Utilities
Alabama	3.06	8.37	6.71	3.32	2.82
Alaska	1.32	3.64	2.16	1.25	1.59
Arizona	2.72	9.18	6.18	3.42	2.67
Arkansas	NA	NA	NA	NA	2.60
California	2.60	6.62	5.83	NA	2.76
Colorado	NA	5 24	NA	NA	2 69
Connecticut	5.03	10.40	6 50	1 19	2.00
Delewere	2.45	0.45	7.02	4.10	2.72
Delaware	3.45	0.02	7.02	4.10	2.91
District of Columbia	8.88	NA	NA		
Florida	3.36	11.91	6.51	3.99	3.10
Georgia	NA	NA	NA	NA	2.57
Hawaii	5.62	18.97	14.33	8.21	_
Idaho	2.23	5.43	4.77	3.30	_
Illinois	3.00	5.53	5.25	4.04	2.40
Indiana	NA	NA	NA	NA	2.98
					2.00
lowa	3.28	6.11	4.80	3.96	3.08
Kansas	NA	NA	NA	NA	2.37
Kentucky	3.27	5.73	5.11	3.30	3.20
Louisiana	2.52	6.90	5 69	2 53	2 58
Maine	NA	7.45	6.68	4.87	
Manufaural	N14	NIA	NIA	F F7	0.44
Maryland	NA	NA	NA	5.57	3.11
Massachusetts	NA	NA	NA	NA	2.71
Michigan	2.83	5.12	4.84	3.92	1.52
Minnesota	NA	NA	4.44	NA	2.59
Mississippi	NA	NA	NA	NA	2.47
Missouri	3.34	6 28	5 38	NA	2 64
Montana	2.57	5 15	5.00	4.55	4.02
Nobroako	2.57	5.15	3.10	4.00	4.02
Nepraska	3.12	5.06	4.10	3.39	2.74
Nevada	2.59	7.10	5.99	4.63	2.51
New Hampshire	3.82	1.13	NA	4.56	2.87
New Jersev	NA	NA	NA	NA	3.08
New Mexico.	NA	4.61	3.26	NA	2.31
New York	NA	NA	NA	NA	2.84
North Carolina	3 33	8 32	6 31	3 73	2.85
North Dakota	NA	NA	NA	NA	2.00
	NA	IN/A	INA	IN/A	_
Ohio	NA	NA	NA	NA	3.04
Oklahoma	2 84	5.85	5 11	3 75	2.78
Oregon	2 94	7 17	5.80	NA	1 96
Pennsylvania	3.64	8 22	8 38	4 21	3.02
Rhode Island	3 95	9.53	8.01	3.96	0.02
	5.85	9.00	0.01	5.90	_
South Carolina	3.47	8.61	6.52	3.32	3.63
South Dakota	3.52	5.83	4 52	3 36	
Tennessee	NA	NA	NA	NA	_
Texas	2.84	6.03	4 39	NA	2 51
litah	2.04	5.37	4.00	2.02	2.51
Otari	2.90	5.57	4.12	5.02	2.04
Vermont	2.85	7.13	5.54	3.08	3.23
Virginia	NA	NA	6.04	3.91	3.19
Washington	NA	NA	NA	NA	—
West Virginia	NA	NA	NA	NA	2.98
Wisconsin	3.07	6.19	4.94	3.87	2.93
Wyoming	NA	5.28	4.50	NA	3.88
Total	2 1 1	6.61	E 26	2.04	2.62
I OTAI	3.11	0.01	5.20	3.04	2.02

NA = Not available.— = Not applicable.

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