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Monthly Energy Review

November 1985

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Energy Information Administration Washington, DC

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Monthly Energy Review

The *Monthly Energy Review* presents current data on production, consumption, stocks, imports, exports, and prices of the principal energy commodities in the United States. Also included are data on international production of crude oil, consumption of petroleum products, petroleum stocks, and production of electricity from nuclear-powered facilities.

Publication of this report is in keeping with responsibilities given the Energy Information Administration in Public Law 95-91 (Section 205(a)(2)) that states:

"The Administrator shall be responsible for carrying out a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze and disseminate data and information"

The *Monthly Energy Review* is intended to provide timely energy information to Members of Congress, to Federal and State agencies, and to the general public.

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This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or necessarily reflecting any policy position of the Department of Energy or any other organization.

November 1985





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Highlights

Profiles of Foreign Direct Investment in U.S. Energy 1984

Concern about the involvement of foreign interests in U.S. energy is reflected in the Department of Energy Organization Act, which requires that the Secretary of Energy report to the President for transmittal to Congress:

"... a summary of activities in the United States by companies or persons which are foreign owned or controlled and which own or control United States energy sources and supplies, including the magnitude of annual foreign direct investment in the energy sector in the United States" (42 USC 7267)

Introduction

Foreign direct investment is the cumulative net flow of funds between a foreign-affiliated company and its foreign owners. Stock purchases and paid-in capital, retained earnings and other equity, and loans from and to the foreign owners are included. Investment flows out of, as well as into, the United States. U.S. direct investment abroad exceeds foreign direct investment in the United States, although the difference between the two has declined in recent years.

Profiles of Foreign Direct Investment in U.S. Energy 1984 summarizes the activities in the United States of foreign-affiliated companies that are foreign-owned or controlled and that own or control U.S. energy sources and supplies. The report includes information on the level of foreign direct investment in the U.S. energy industry and on the role foreign-affiliated companies play in U.S. energy operations. Investment in petroleum¹ is emphasized, but data on coal and uranium are also presented.

Foreign Direct Investment in Energy

As the U.S. economy recovered from the recession of 1981–1982, economic activity in the energy industry also increased. Net income of energy corporations in 1984 increased 8.4 percent from the 1983 level; the increase was, however, significantly less than the 29.3-percent increase registered by all U.S. manufacturing corporations in 1984. Among other developments, declining oil prices and static natural gas prices served to moderate energy industry gains.

Within the energy sector, foreign-affiliated U.S. companies² registered greater improvements in financial performance in 1984 than did other energy companies. For the foreign-affiliated group, revenues rose 3.8 percent (to \$98.1 billion) and net income rose 28.6 percent (to \$6.3 billion) in 1984. By comparison, revenues of the other energy group increased 1.8 percent (to \$493.1 billion) and net income rose 4.5 percent (to \$18.4 billion). The foreign-affiliated companies also had higher profit rates: the ratio of net income to stockholders' equity reached 12.4 percent in 1984 (up from 10.4 percent the previous year); for the other companies, the ratio in 1984 was 9.9 percent.

Petroleum

At the end of 1984, foreign direct investment in the United States was valued at \$159.6 billion. Of that total, \$24.9 billion (15.6 percent) was invested in the U.S. petroleum industry, compared with \$18.2 billion (13.3 percent) in 1983. Most of the 37-percent increase in foreign direct investment in U.S. petroleum resulted from Royal Dutch Shell's acquisition of \$4.5 billion worth of Shell Oil common stock, the largest single foreign direct investment transaction ever recorded.

U.S. petroleum investment abroad far exceeded the value of foreign direct investment in U.S. petroleum. In 1984, when U.S. petroleum investment abroad totaled \$63.3 billion, the ratio was 2.5. However, the ratio declined significantly from the ratio of 3.9 for 1980.

In 1984, U.S. affiliates of foreign entities owned 16.0 percent of U.S. oil reserves and 9.3 percent of U.S. natural gas reserves. Foreign-affiliated companies accounted for 12.8 percent of total U.S. oil production and 6.0 percent of total U.S. natural gas production in 1984. Those shares were essentially the same as in

¹ For reporting purposes, petroleum consists of crude oil (including natural gas liquids), natural gas production, integrated refining, and marketing. Energy sources other than petroleum are not separately distinguished in detail by the U.S. Department of Commerce in its report on foreign direct investment.

² The major foreign-affiliated U.S. energy companies identified by the Energy Information Administration are Shell Oil (U.S.), Standard Oil of Ohio, E.I. du Pont de Nemours and Company, and American Petrofina.

1983 (Figure 1). The share of U.S. refinery capacity owned by foreign-affiliated companies was 14.6 percent in 1984, about the same as in 1983, despite the sale of two U.S. refineries by Husky Oil, Ltd.

The profitability of foreign direct investment in U.S. petroleum was higher than the profitability of overall foreign direct investment in the United States (Figure 2). In recent years, the difference narrowed as the rate of growth of U.S. petroleum operations did not keep pace with the rate of growth of U.S. corporations as a whole.

European interests accounted for most of the foreign direct investment in U.S. petroleum in 1984. The Netherlands and the United Kingdom combined totalled \$20.8 billion, accounting for over 80 percent of the U.S. total. Canada's share declined to less than 6 percent of the total in 1984. Members of the Organization of Petroleum Exporting Countries (OPEC) accounted for a negligible share of investment in U.S. petroleum, although OPEC did increase investments in other areas (Table 1).

Coal

In 1984, U.S. demand for coal rose due to both increased economic activity and to inventory build-up in anticipation of a possible miners' strike. Total U.S. coal production increased to 891.8 million short tons, up 14.6 percent from the 1983 level, while coal production by companies with foreign affiliations increased to 159.3 million short tons, up 24.4 percent. The foreign affiliates' 17.9-percent share of total U.S. coal production in 1984 is especially noteworthy considering the fact that as recently as 1980 their share was less than 4 percent of the total.

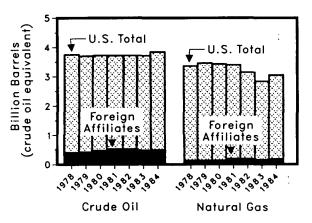
Uranium

Expenditures for U.S. uranium exploration declined every year after 1979, falling from a peak of \$315.9 million that year to \$26.5 million in 1984. Foreignfunded exploration also declined until 1984, when foreign affiliates' spending rose to \$6.6 million and accounted for 25 percent of the U.S. total, a higher share than in any previous year.

The Report

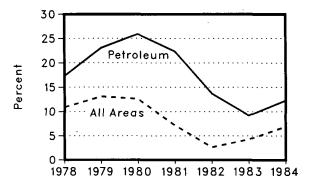
Profiles of Foreign Direct Investment in U.S. Energy 1984 was published in December 1985 by the Energy Information Administration (EIA). The 39-page report includes 5 figures, 18 tables, and an appendix giving a detailed list of acquisition transactions in the energy industries. The report may be obtained using the order form in the back of this publication.

Figure 1. U.S. Crude Oil and Naturai Gas Production, 1978-1984



Note: Crude oil includes natural gas liquids. Natural gas is dry natural gas.

Figure 2. Rates of Return on Foreign Direct Investment* in the United States, 1978-1984



*Defined as annual income from foreign direct investment accruing to foreign parents divided by the average of beginning-year and ending-year foreign direct investment positions of foreign parents.

 Table 1. OPEC Direct Investment in the United States, 1980-1984

| Investment Area | 1980 | 1981 | 1982 | 1983 | 1984 |
|----------------------------|------|------------------|------------------|-------|-------|
| | | (mi | llion dol | lars) | |
| Petroleum | (1) | (1) | 6 | 10 | 12 |
| Manufacturing Wholesale | 51 | 49 | 31 | -22 | -36 |
| Trade | (¹) | (¹) | (¹) | 139 | 187 |
| Banking | 110 | 122 | 202 | 205 | 255 |
| Real Estate | 300 | 376 | 555 | 614 | 669 |
| Other | 26 | 2,650 | (¹) | 3,093 | 3,638 |
| Total | 642 | 3,336 | 4,045 | 4,039 | 4,725 |

¹Data withheld to prevent disclosure of individual company data.

Source: EIA, Profiles of Foreign Direct Investment in U.S. Energy 1984, DOE/EIA-0466(84) (Washington, D.C., December 1985), p. 15 (for Figure 1), p. 7 (for Figure 2), and p. 10 (for Table 1).

January through November Summary

The United States produced 1.4 percent less energy during the first 11 months of 1985 than during the same period in 1984, and U.S. consumption was down 0.5 percent. Net imports of all energy were 15.3 percent lower, with net imports of petroleum 11.9 percent lower than net imports during the first 11 months of 1984.

Production

Energy production during November 1985 totaled 5.3 quadrillion Btu, a 2.6-percent increase compared with the level of production during November 1984. Coal production was up 8.1 percent. Natural gas production decreased 3.6 percent and petroleum production was down 0.4 percent compared with production in the previous November. Production of all other forms of energy combined increased 15.1 percent compared with production 1 year earlier.

Consumption

Energy consumption during November 1985 totaled 6.1 quadrillion Btu, 1.1 percent below the level of consumption during November 1984. Natural gas consumption was down 7.2 percent and petroleum consumption decreased 1.4 percent. Coal consumption increased 0.4 percent. Consumption of all other forms of energy combined increased 14.9 percent compared with consumption during November 1984.

Net Imports

Net imports of energy during November 1985 totaled 0.8 guadrillion Btu, 3.4 percent below the level of net imports during November 1984. Net imports of petroleum increased 9.5 percent, while net imports of natural gas decreased 7.6 percent. Net exports of coal were up 94.6 percent from the level in November 1984.

Energy Summary (Quadrillion (1015) Btu)

| | | November | | | Cumulative January through November | | | | | |
|------------------------|---------|----------|--------------------------------|---------|-------------------------------------|---------|-----------------------|--------------------------------|--|--|
| · •. | 1985 | 1984 | Percent Change ¹ | 1985 | 1985 Daily Rate | 1984 | 1984 Daily Rate | Percent Change ¹ | | |
| Total Production | 5.281 | 5.149 | 2.6 | 59.430 | 0.178 | 60.444 | 0.180 | -1.4 | | |
| Petroleum ² | 1.746 | 1.754 | -0.4 | 19.336 | 0.058 | 19.327 | 0.058 | 0.3 | | |
| Natural Gas (Dry) | 1.410 | 1.463 | -3.6 | 15.480 | 0.046 | 16.344 | 0.049 | -5.0 | | |
| Coal | 1.532 | 1.417 | 8.1 | 17.958 | 0.054 | 18.318 | 0.055 | -1.7 | | |
| Other ³ | 0.592 | 0.515 | 15.1 | 6.655 | 0.020 | 6.454 | 0.019 | 3.4 | | |
| Total Consumption | 6.094 | 6.164 | -1.1 | 66.994 | 0.201 | 67.511 | 0.202 | -0.5 | | |
| Petroleum | 2.494 | 2.529 | -1.4 | 28.143 | 0.084 | 28.480 | 0.085 | -0.9 | | |
| Natural Gas⁵ | 1.573 | 1.695 | -7.2 | 15.784 | 0.047 | 16.606 | 0.050 | -4.7 | | |
| Coal | 1.400 | 1.394 | 0.4 | 16.038 | 0.048 | 15.603 | 0.047 | 3.1 | | |
| Other ⁶ | 0.627 | 0.545 | 14.9 | 7.030 | 0.021 | 6.822 | 0.020 | 3.4 | | |
| Net Imports | 0.786 | 0.814 | -3.4 | 7.013 | 0.021 | 8.303 | 0.025 | -15.3 | | |
| Petroleum ⁷ | 0.891 | 0.813 | 9.5 | 8.070 | 0.024 | 9.188 | 0.027 | -11.9 | | |
| Natural Gas | 0.073 | 0.079 | -7.6 | 0.783 | 0.002 | 0.697 | 0.002 | 12.6 | | |
| Coal ^s | (0.212) | (0.109) | (94.6) | (2.213) | (0.007) | (1.950) | (0.006) | (13.8) | | |
| Other® | 0.034 | 0.030 | 12.5 | 0.374 | 0.001 | 0.368 | 0.001 | 2.1 | | |

¹ Based on daily rates prior to rounding.
 ² Includes crude oil, lease condensate, and natural gas plant liquids.

³ Other is hydroelectric and nuclear electric power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. Includes petroleum products.

Includes supplemental gaseous fuels.

^a Other is hydroelectric and nuclear electric power; electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems; and net imports of electricity and coal coke. ⁷ Includes crude oil, lease condensate, petroleum products, pentanes plus, unfinished oils, gasoline blending components, and

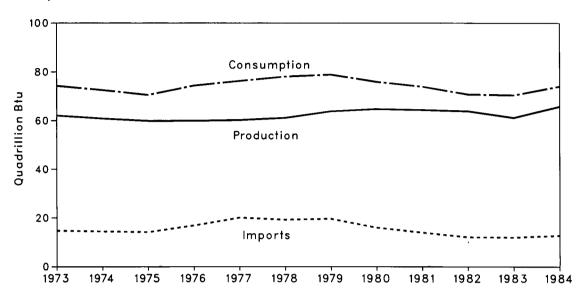
imports of crude oil for the Strategic Petroleum Reserve. * Parentheses indicate exports are greater than imports.

Other is net imports of electricity and coal coke

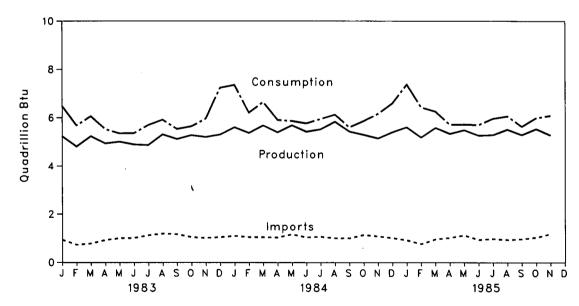
Note: • Totals may not equal sum of components due to independent rounding.



Yearly



Monthly



2

Overview¹

| | | Production ² | Consumption ² | Imports ² | Exports | Net Imports |
|------|----------------------|--------------------------------|--------------------------|----------------------|----------------|----------------|
| | | | Qu | adrillion (1015) Bi | tu | |
| 1973 | Total | 62.060 | 74.282 | 14.731 | 2.051 | 12.680 |
| 1974 | Total | 60.835 | 72.543 | 14.412 | 2.223 | 12.190 |
| 1975 | Total | 59.860 | 70.546 | 14.111 | 2.359 | 11.752 |
| 1975 | Total | 59.891 | 74.362 | 16.837 | 2.189 | 14.648 |
| | Total | | | | | |
| 1977 | | 60.219 | 76.289 | 20.090 | 2.072 | 18.018 |
| 1978 | Total | 61.103 | 78.088 | 19.254 | 1.931 | 17.323 |
| 1979 | Total | 63.800 | 78.898 | 19.616 | 2.871 | 16.745 |
| 1980 | Total | 64.761 | 75.952 | 15.971 | 3.724 | 12.247 |
| 1981 | Total | 64.422 | 73.989 | 13.974 | 4.329 | 9.644 |
| 1982 | Total | 63.890 | 70.840 | 12.093 | 4.636 | 7.457 |
| 1983 | January | 5.237 | 6.483 | 0.942 | 0.301 | 0.641 |
| | February | 4.803 | 5.685 | 0.732 | 0.264 | 0.468 |
| | March | 5.233 | 6.058 | 0.783 | 0.319 | 0.464 |
| | April | 4.933 | 5.532 | 0.931 | 0.314 | 0.617 |
| | May | 5.006 | 5.354 | 1.005 | 0.348 | 0.657 |
| | June | 4.889 | 5.364 | 1.018 | 0.334 | 0.684 |
| | July | 4.866 | 5.700 | 1.124 | 0.273 | 0.851 |
| | August | 5.312 | 5.922 | 1.199 | 0.348 | 0.852 |
| | September | 5.120 | 5.538 | 1.172 1.051 | 0.323 | 0.849 |
| | October | 5.280 | 5.648 | 1.019 | 0.325 | 0.726 |
| | November December | 5.208 5.308 | ,5.966 , 7.246 | 1.047 | 0.280 0.290 | 0.739 0.758 |
| | Total | 61.194 | 70.495 | 12.024 | 3.719 | 8.306 |
| 1004 | | 5.609 | 7.364 | 1.102 | 0.247 | 0.854 |
| 1984 | January February | 5.380 | 6.210 | 1.053 | 0.221 | 0.832 |
| | March | 5.686 | 6.652 | 1.047 | 0.315 | 0.732 |
| | April | 5.401 | 5.912 | 1.035 | 0.327 | 0.708 |
| | May | 5.691 | 5.872 | 1.170 | 0.365 | 0.805 |
| | June | 5.427 | 5.774 | 1.040 | 0.367 | 0.673 |
| | July | 5,528 | 5.951 | 1.065 | 0.326 | 0.739 |
| | August | 5.837 | 6.133 | 1.005 | 0.359 | 0.646 |
| | September | 5.436 | 5.610 | 1.005 | 0.355 | 0.651 |
| | October | 5,300 | 5.869 | 1.144 | 0.295 | 0.848 |
| | November | 5.149 | 6.164 | 1.085 | 0.271 | 0.814 |
| | December | 5.408 | 6.597 | 1.012 | 0.360 ` | 0.652 |
| | Total | 65.852 | 74.108 | 12.763 | 3.808 | 8.955 |
| 1985 | January | 5.609 | 7.382 | 0.924 | 0.307 | 0.618 |
| | February | 5.190 | 6.431 | 0.767 | 0.307 | 0.461 |
| | March | 5,589 | 6.257 | 0.964 | 0.311 | 0.653 |
| | April | 5.347 | 5.720 | 1.025 | 0.332 | 0.694 |
| | May | 5.495 | 5.732 | 1.129 | 0.388 | 0.741 |
| | June | 5.274 | 5.709 | 0.945 | 0.342 | 0.603 |
| | July | R5.293 | 5.969 | 0.982 | 0.327 | 0.655 |
| | August | R5.516 | 6.066 | 0.941 | 0.419 | 0.522 |
| | September | R5.294 | / 5.642 | 0.972 | 0.365 | 0.607 |
| | October | 5.540 | 5.993 | 1.039 | 0.364 | 0.675 |
| | November | 5.281 | 6.094 | 1.192 | 0.406 | 0.786 |
| | Year to Date | 59.430 | 66.994 | 10.880 | 3.866 | 7.013 |

¹For definitions, see Notes on the last page of this section. ²The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation, and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces in Europe; and adjustments to account for discrepancies between reporting systems. R = Revised data.

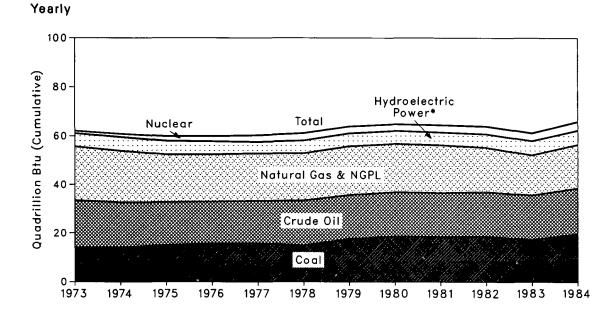
Notes: • Geographic coverage is the 50 States and the District of Columbia.

Totals may not equal sum of components due to independent rounding.
Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric utilities.

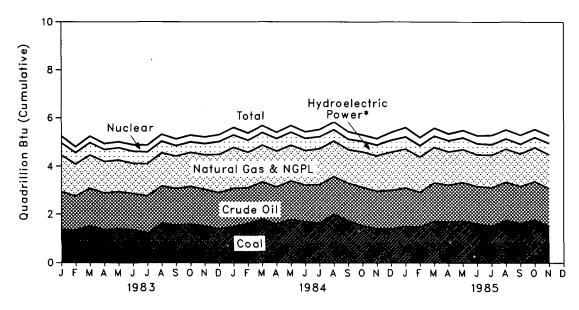
Source: • Energy Information Administration calculations based on data appearing elsewhere in this publication.

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Energy Summary Production of Energy by Source



Monthly



*Includes other.

Monthly Energy Review November 1985 Energy Information Administration

Production of Energy by Source

| | | | | | Natural | Hydro- | Nuclear | | | Year |
|------|---------------------|----------------|------------------|-------------------|----------------|----------------------------|----------------|--------------------|----------------|------------------|
| | | | Crude | | Gas | electric | Electric | | | to |
| | | Coal | Oil ¹ | NGPL ² | (Dry) | Power ^a | Power | Other ⁴ | Total | Date |
| | | | | | Qu | adrillion (10 ¹ | ⁵) Btu | | | |
| 1973 | Total | 13.993 | 19.493 | 2.569 | 22.187 | 2.861 | 0.910 | 0.046 | 62.060 | |
| 1974 | Total | 14.074 | 18.575 | 2.471 | 21.210 | 3.177 | 1.272 | 0.056 | 60.835 | |
| 1975 | Total | 14.990 | 17.729 | 2.374 | 19.640 | 3.155 | 1.900 | 0.072 | 59.860 | |
| 1976 | Total | 15.654 | 17.262 | 2.327 | 19.480 | 2.976 | 2.111 | 0.081 | 59.891 | |
| 1977 | Total | 15.755 | 17.454 | 2.327 | 19.565 | 2.333 | 2.702 | 0.082 | 60.219 | |
| 1978 | Total | 14.910 | 18.434 | 2.245 | 19.485 | 2.937 | 3.024 | 0.068 | 61.103 | |
| 1979 | Total | 17.539 | 18.104 | 2.286 | 20.076 | 2.931 | 2.776 | 0.089 | 63.800 | |
| 1980 | Total | 18.597 | 18.249 | 2.254 | 19.907 | 2.900 | 2.739 | 0.114 | 64.761 | |
| 1980 | Total | 18.377 | 18.146 | 2.307 | 19.699 | 2.758 | 3.008 | 0.127 | 64.422 | |
| 1982 | Total | 18.639 | 18.309 | 2.307 | 18.255 | 3.256 | 3.131 | 0.108 | 63.890 | • |
| | Total | 10.039 | | | | | | | | |
| 1983 | January | 1.384 | 1.564 | 0.188 | 1.509 | 0.308 | 0.273 | 0.011 | 5.237 | 5.237 |
| | February | 1.338 | 1.422 | 0.169 | 1.329 | 0.295 | 0.242 | 0.008 | 4.803 | 10.040 |
| | March | 1.520 | 1.564 | 0.183 | 1.376 | 0.319 | 0.261 | 0.009 | 5.233 | 15.273 |
| | April | 1.364 | 1.527 | 0.173 | 1.300 | 0.316 | 0.244 | 0.009 | 4.933 | 20.206 |
| | May | 1.394 | 1.552 | 0.178 | 1.305 | 0.329 | 0.240 0.263 | 0.007 | 5.006 | 25.212 |
| | June | 1.363 | 1.508 | 0.175 0.183 | 1.245 1.325 | 0.324 0.297 | 0.263 | 0.009 0.012 | 4.889 4.866 | 30.101 34.967 |
| | July | 1.218 1.617 | 1.553 1.561 | 0.185 | 1.325 | 0.297 | 0.279 | 0.012 | 4.000 5.312 | 40.278 |
| | August September | 1.551 | 1.528 | 0.180 | 1.375 | 0.229 | 0.273 | 0.013 | 5.120 | 45.398 |
| | October | 1.583 | 1.520 | 0.191 | 1.415 | 0.219 | 0.281 | 0.014 | 5.280 | 50.678 |
| | November | 1.515 | 1.526 | 0.189 | 1.432 | 0.260 | 0.273 | 0.013 | 5.208 | 55.886 |
| | December | 1.405 | 1.510 | 0.184 | 1.577 | 0.333 | 0.287 | 0.011 | 5.308 | 61.194 |
| | Total | 17.250 | 18.392 | 2.184 | 16.530 | 3.502 | 3.203 | 0.133 | 61.194 | |
| | | | | | | | | | | |
| 1984 | January | 1.495 | 1.594 | 0.186 | 1.695 | 0.311 | 0.317 | 0.011 | 5.609 | 5.609 |
| | February | 1.622 | 1.493 | 0.181 | 1.472 | 0.292 0.318 | 0.307 | 0.013 | 5.380 5.686 | 10.989 16.675 |
| | March | 1.795 | 1.559 1.542 | 0.189 0.185 | 1.515 1.483 | 0.318 | 0.295 0.262 | 0.015 0.014 | 5.666 5.401 | 22.076 |
| | April | 1.601 1.785 | 1.542 | 0.185 | 1.463 | 0.314 | 0.262 | 0.014 | 5.691 | 27.766 |
| | May June | 1.682 | 1.540 | 0.184 | 1.432 | 0.302 | 0.273 | 0.013 | 5.427 | 33.193 |
| | July | 1.646 | 1.598 | 0.193 | 1.485 | 0.288 | 0.305 | 0.013 | 5.528 | 38.721 |
| | August | 1.999 | 1.584 | 0.193 | 1.463 | 0.263 | 0.319 | 0.016 | 5.837 | 44.559 |
| | September | 1.739 | 1.565 | 0.190 | 1.394 | 0.219 | 0.315 | 0.015 | 5.436 | 49.995 |
| | October | 1.536 | 1.601 | 0.195 | 1.465 | 0.219 | 0.268 | 0.016 | 5.300 | 55.295 |
| | November | 1.417 | 1.562 | 0.192 | 1.463 | 0.233 | 0.265 | 0.016 | 5.149 | 60.444 |
| | December | 1.405 | 1.600 | 0.195 | 1.587 | 0.270 | 0.333 | 0.018 | 5.408 | 65.852 |
| | Total | 19.723 | 18.848 | 2.274 | 17.931 | 3.363 | 3.538 | 0.174 | 65.852 | |
| 1985 | January | 1.503 | 1.605 | 0.194 | 1.610 | 0.288 | 0.391 | 0.018 | 5.609 | 5.609 |
| | February | 1.482 | 1.450 | 0.174 | 1.465 | 0.271 | 0.333 | 0.016 | 5.190 | 10.800 |
| | March | 1.717 | 1.605 | 0.191 | 1.465 | 0.258 | 0.335 | 0.018 | 5.589 | 16.388 |
| | April | 1.690 | 1.539 | 0.183 | 1.378 | 0.256 | 0.286 | 0.015 | 5.347 | 21.735 |
| | Мау | 1.730 | 1.613 | 0.190 | 1.360 | 0.277 | 0.310 | 0.016 | 5.495 | 27.231 |
| | June | 1.617 | 1.560 | 0.185 | 1.313 | 0.250 | 0.333 | 0.016 | 5.274 | 32.505 |
| | July | R1.527 | 1.601 | 0.188 | 1.357 | 0.224 | 0.380 | 0.018 | R5.293 | R37.798 |
| | August | R1.757 | 1.599 | 0.191 | 1.365 | 0.210 | 0.376 | 0.018 | R5.516 | R43.314 |
| | September | R1.632 | 1.544 | 0.181 | 1.350 | 0.197 | 0.373 | 0.018 | R5.294 | R48.608 |
| | October | 1.772 | 1.608 | 0.190 | 1.406 | 0.210 | 0.337 | 0.017 | 5.540 | R54.148 |
| | November | 1.532 | 1.554 | 0.192 | 1.410 | 0.246 | 0.326 | 0.021 | 5.281 | 59.430 |
| | Year to Date | 17.958 | 17.278 | 2.058 | 15.480 | 2.687 | 3.779 | 0.190 | 59.430 | |
| | | | | | | | | | | |

Includes lease condensate.

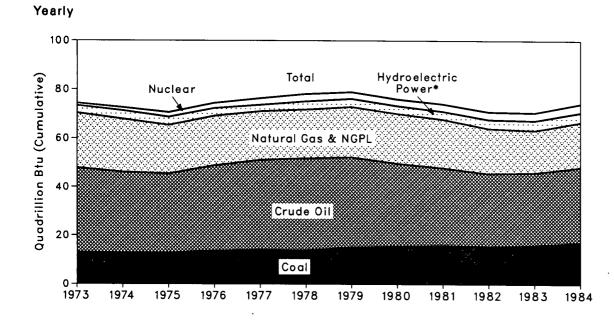
Includes lease condensate.
Natural gas plant liquids.
Includes industrial and utility production of hydroelectric power.
Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.
R = Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric utilities.

4

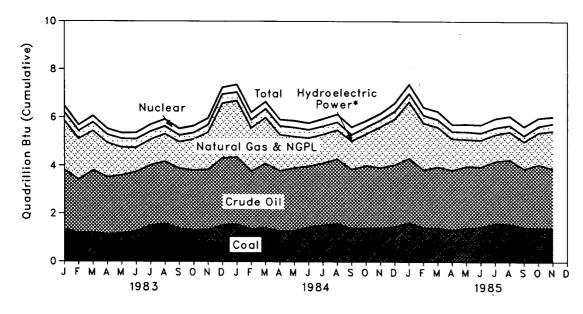
utilities.

Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Consumption of Energy by Source



Monthly



*Includes other.

Consumption of Energy by Source

| | | | · · | | | | | | |
|--------------|-------------------|----------------|-----------------|----------------|--|------------------------------|--------------------|----------------|--------------------|
| | | Coal | Natural Gas¹ | Petro- leum | Hydro- electric Power ² | Nuclear Electric Power | Other ³ | Total | Year to Date |
| | | çour | duo | ie uni | | | other | TOTAL | Date |
| | | | | | | n (10¹⁵) Btu | | | |
| 1973 | Total | 12.971 | 22.512 | 34.840 | 3.010 | 0.910 | 0.039 | 74.282 | |
| 1974 | Total | 12.663 | 21.732 | 33.455 | 3.309 | 1.272 | 0.112 | 72.543 | |
| 1975 | Total | 12.663 | 19.948 | 32.731 | 3.219 | 1.900 | 0.086 | 70.546 | |
| 1976 | Total | 13.584 | 20.345 | 35.175 | 3.066 | 2.111 | 0.081 | 74.362 | |
| 1977 | Total | 13.922 | 19.931 | 37.122 | 2.515 | 2.702 | 0.097 | 76.289 | |
| 1978 | Total | 13.765 | 20.000 | 37.965 | 3.141 | 3.024 | 0.193 | 78.088 | |
| 1979 | Total | 15.039 | 20.666 | 37.123 | 3.141 | 2.776 | 0.152 | 78.898 | |
| 1980 | Total Total | 15.423 | 20.391 | 34.202 | 3.118 | 2.739 | 0.079 | 75.952 | |
| 1981 1982 | Total Total | 15.908 | 19.926 | 31.931 | 3.105 | 3.008 | 0.111 | 73.989 | |
| | Total | 15.322 | 18.507 | 30.232 | 3.561 | 3.131 | 0.086 | 70.840 | |
| 1983 | January | 1.360 | 2.036 | 2.467 | 0.337 | 0.273 | 0.009 | 6.483 | 6.483 |
| | February March | 1.180 | 1.693 | 2.239 | 0.323 | 0.242 | 0.007 | 5.685 | 12.168 |
| | April | 1.196 1.140 | 1.640 1.416 | 2.604 2.383 | 0.348 0.344 | 0.261 0.244 | 0.009 0.006 | 6.058 5.532 | 18.226 23.758 |
| | May | 1.172 | 1.153 | 2.431 | 0.352 | 0.244 | 0.006 | 5.354 | 29.112 |
| | June | 1.257 | 1.004 | 2.480 | 0.351 | 0.263 | 0.009 | 5.364 | 34.476 |
| | July | 1.499 | 1.066 | 2.517 | 0.328 | 0.279 | 0.010 | 5.700 | 40.176 |
| | August | 1.574 | 1.146 | 2.594 | 0.307 | 0.286 | 0.015 | 5.922 | 46.098 |
| | September | 1.366 | 1.104 | 2.515 | 0.266 | 0.273 | 0.013 | 5.538 | 51.636 |
| | October | 1.305 | 1.285 | 2.507 | 0.256 | 0.281 | 0.014 | 5.648 | 57.284 |
| | November | 1.325 | 1.550 | 2.514 | 0.292 | 0.273 | 0.012 | 5.966 | 63.249 |
| | December | 1.522 | 2.259 | 2.803 | 0.366 | 0.287 | 0.008 | 7.246 | 70.495 |
| | Total | 15.898 | 17.352 | 30.054 | 3.871 | 3.203 | 0.118 | 70.495 | |
| 1984 | January | 1.552 | 2.330 | 2.810 | 0.344 | 0.317 | 0.012 | 7.364 | 7.364 |
| | February | 1.359 | 1.793 | 2.415 | 0.320 | 0.307 | 0.015 | 6.210 | 13.574 |
| | March | 1.403 | 1.908 | 2.684 | 0.348 | 0.295 | 0.014 | 6.652 | 20.226 |
| | April May | 1.272 1.298 | 1.501 1.303 | 2.520 2.612 | 0.344 0.366 | 0.262 | 0.014 0.013 | 5.912 5.872 | 26.138 |
| | June | 1.439 | 1.175 | 2.542 | 0.333 | 0.279 0.273 | 0.013 | 5.774 | 32.010 37.784 |
| | July | 1.519 | 1.197 | 2.592 | 0.325 | 0.305 | 0.012 | 5.951 | 43.736 |
| | August | 1.587 | 1.208 | 2.695 | 0.309 | 0.319 | 0.014 | 6.133 | 49.868 |
| | September | 1.384 | 1.173 | 2.468 | 0.256 | 0.315 | 0.014 | 5.610 | 55.479 |
| | October | 1.395 | 1.322 | 2.612 | 0.260 | 0.268 | 0.013 | 5.869 | 61.347 |
| | November | 1.394 | 1.695 | 2.529 | 0.266 | 0.265 | 0.014 | 6.164 | 67.511 |
| | December | 1.470 | 1.901 | 2.571 | 0.303 | 0.333 | 0.017 | 6.597 | 74.108 |
| | Total | 17.074 | 18.507 | 31.051 | 3.774 | 3.538 | 0.163 | 74.108 | |
| 1985 | January | 1.618 | 2.334 | 2.700 | 0.321 | 0.391 | 0.018 | 7.382 | 7.382 |
| | February | 1.422 | 1.942 | 2.413 | 0.304 | 0.333 | 0.017 | 6.431 | 13.813 |
| | March | 1.400 | 1.651 | 2.562 | 0.291 | 0.335 | 0.018 | 6.257 | 20.070 |
| | April | 1.336 | 1.311 | 2.484 | 0.288 | 0.286 | 0.016 | 5.720 | 25.790 |
| | May | 1.401 | 1.119 | 2.586 | 0.304 | 0.310 | 0.013 | 5.732 | 31.522 |
| | June July | 1.445 1.600 | 1.118 1.118 | 2.517 2.595 | 0.282 0.260 | 0.333 0.380 | 0.014 0.016 | 5.709 5.969 | 37.231 |
| | August | 1.577 | 1.164 | 2.595 | 0.260 | 0.380 | 0.016 | 5.969 6.066 | 43.200 49.266 |
| | September | 1.438 | 1.130 | 2.446 | 0.240 | 0.373 | 0.017 | 5.642 | 49.200 54.908 |
| | October | 1.402 | 1.324 | 2.663 | 0.251 | 0.337 | 0.016 | 5.993 | 60.900 |
| | November | 1.400 | 1.573 | 2.494 | 0.283 | 0.326 | 0.018 | 6.094 | 66.994 |
| | Year to Date | 16.038 | 15.784 | 28.143 | 3.074 | 3.779 | 0.177 | 66.994 | |
| | | | | | | | | | |

1.1%

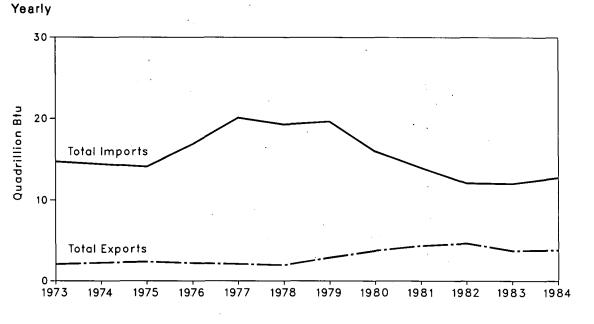
¹Includes supplemental gaseous fuels.
²Includes industrial and utility production and net imports of electricity.
³Other is net imports of coal coke and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric utilities

utilities.

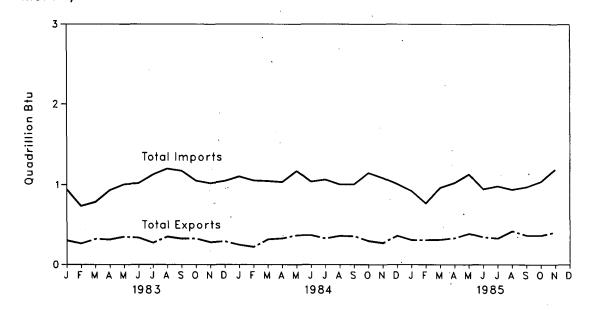
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

1

Energy Summary Energy Imports and Exports



Monthly



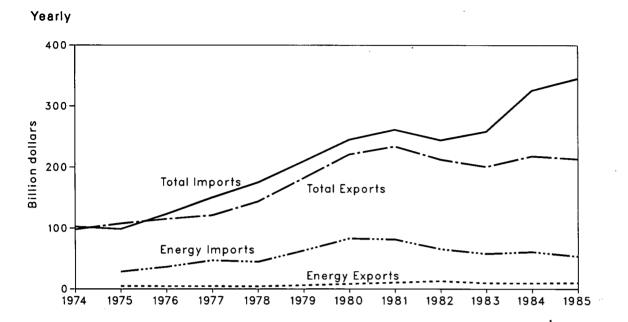
Monthly Energy Review November 1985 Energy Information Administration

Net Imports¹ of Energy by Source

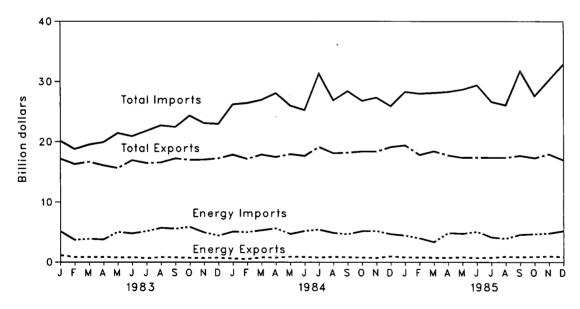
| | | | Crude | Petro- leum | Natural | Electric- | Coal | | Year to |
|------|---------------------|--------------------|---------------------|-----------------------|----------------|------------------|--------------------|----------------|----------------|
| | , | Coal | Oil ² | Products ³ | Gas | ity | Coke | Total | Date |
| | | | | | Quadrilli | on (10¹⁵) Btu | | | |
| 1973 | Total | (1.422) | 6.883 | 6.097 | 0.981 | 0.148 | (0.007) | 12.680 | |
| 1974 | Total | (1.568) | 7.389 | 5.273 | 0.907 | 0.133 | 0.056 | 12.190 | |
| 1975 | Total | (1.738) | 8.708 | 3.800 | 0.904 | 0.064 | 0.014 | 11.752 | |
| 1976 | Total | (1.567) | 11.221 | 3.982 | 0.922 | 0.089 | 0.000 | 14.648 | |
| 1977 | Total | (1.401) | 13. 9 21 | 4.321 | 0.981 | 0.182 | 0.015 | 18.018 | |
| 1978 | Total | (1.004) | 13.125 | 3.932 | 0.941 | 0.204 | 0.125 | 17.323 | |
| 1979 | Total | (1.702) | 13.328 | 3.603 | 1.243 | 0.211 | 0.063 | 16.745 | |
| 1980 | Total | (2.391) | 10.586 | 2.912 | 0.957 | 0.217 | (0.035) | 12.247 | |
| 1981 | Total | (2.918) | 8.854 | 2.522 | 0.855 | 0.347 | (0.016) | 9.644 | |
| 1982 | Total | (2.768) | 6.917 | 2.128 | 0.896 | 0.306 | (0.022) | 7.457 | |
| 1983 | January | (0.116) | 0.514 | 0.105 | 0.110 | 0.028 | (0.001) | 0.641 | 0.641 |
| | February | (0.113) | 0.327 | 0.134 | 0.092 | 0.029 | (0.001) | 0.468 | 1.108 |
| | March | (0.162) | 0.382 | 0.134 | 0.083 | 0.028 | (0.001) | 0.464 | 1.572 |
| | April | (0.157) | 0.530 | 0.148 | 0.071 | 0.028 | (0.002) | 0.617 | 2.190 |
| | May | (0.180) | 0.556 | 0.202 | 0.057 | 0.023 | (0.002) | 0.657 | 2.847 |
| | June | (0.188) | 0.600 | 0.188 0.252 | 0.057 | 0.028 | (0.001) | 0.684 | 3.531 |
| | July August | (0.159) (0.217) | 0.673 0.732 | 0.252 | 0.054 0.051 | 0.032 0.034 | (0.002) | 0.851 0.852 | 4.382 5.233 |
| | September | (0.195) | 0.705 | 0.239 | 0.065 | 0.034 | (0.001) (0.001) | 0.849 | 6.082 |
| | October | (0.209) | 0.597 | 0.241 | 0.061 | 0.037 | (0.001) | 0.726 | 6.809 |
| | November | (0.153) | 0.551 | 0.233 | 0.077 | 0.032 | (0.001) | 0.739 | 7.548 |
| | December | (0.162) | 0.563 | 0.222 | 0.105 | 0.032 | (0.003) | 0.758 | 8.306 |
| | Total | (2.013) | 6.731 | 2.351 | 0.883 | 0.369 | (0.016) | 8.306 | |
| 1984 | January | (0.132) | 0.524 | 0.336 | 0.092 | 0.032 | 0.001 | 0.854 | 0.854 |
| | February | (0.109) | 0.467 | 0.379 | 0.064 | 0.028 | 0.002 | 0.832 | 1.686 |
| | March | (0.152) | 0.584 | 0.209 | 0.063 | 0.029 | (0.001) | 0.732 | 2.418 |
| | April | (0.199) | 0.567 | 0.244 | 0.066 | 0.030 | 0.000 | 0.708 | 3.126 |
| | May | (0.215) | 0.672 | 0.255 | 0.061 | 0.032 | (0.001) | 0.805 | 3.931 |
| | June July | (0.205) (0.215) | 0.581 0.639 | 0.213 0.228 | 0.056 0.050 | 0.031 0.037 | (0.002) | 0.673 0.739 | 4.605 5.344 |
| | August | (0.213) | 0.552 | 0.214 | 0.030 | 0.037 | (0.001) (0.002) | 0.739 | 5.990 |
| | September | (0.228) | 0.556 | 0.233 | 0.049 | 0.040 | 0.002) | 0.651 | 6.640 |
| | October | (0.173) | 0.652 | 0.269 | 0.062 | 0.041 | (0.003) | 0.848 | 7.489 |
| | November | (0.109) | 0.591 | 0.223 | 0.079 | 0.033 | (0.003) | 0.814 | 8.303 |
| | December | (0.169) | 0.533 | 0.167 | 0.089 | 0.033 | (0.001) | 0.652 | 8.955 |
| | Total | (2.119) | 6.918 | 2.970 | 0.787 | 0.411 | (0.011) | 8.955 | |
| 1985 | January | (0.150) | 0.462 | 0.174 | 0.099 | E0.033 | 0.000 | 0.618 | 0.618 |
| | February | (0.157) | 0.311 | 0.178 | 0.094 | E0.033 | 0.001 | 0.461 | 1.078 |
| | March | (0.174) | 0.473 | 0.236 | 0.085 | E0.033 | 0.000 | 0.653 | 1.731 |
| | April | (0.181) | 0.553 | 0.219 | 0.070 | E0.032 | 0.001 | 0.694 | 2.425 |
| | May | (0.240) | 0.627 | 0.264 | 0.065 | E0.027 | (0.003) | 0.741 | 3.166 |
| | June | (0.205) | 0.515 | 0.205 | 0.058 | E0.032 | (0.002) | 0.603 | 3.768 |
| | July | (0.189) | 0.548 | 0.207 | 0.054 | E0.037 | (0.002) | 0.655 | 4.423 |
| | August September | (0.268) (0.209) | 0.518 0.529 | 0.181 0.188 | 0.053 0.059 | E0.039 E0.043 | (0.001) | 0.522 0.607 | 4.945 5.552 |
| | October | (0.209) | 0.529 | 0.215 | 0.059 | E0.043 E0.041 | (0.003) (0.001) | 0.607 | 5.552 6.227 |
| | November | (0.212) | 0.667 | 0.223 | 0.073 | E0.041 E0.037 | (0.003) | 0.075 | 7.013 |
| | Year to Date | (2.213) | 5.781 | 2.289 | 0.783 | E0.387 | (0.012) | 7.013 | 7.010 |
| | | () | | | | 20.007 | (0.012) | | |

¹Net imports equals imports minus exports. Parentheses indicate exports are greater than imports.
 ²Includes crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.
 ³Includes petroleum products, unfinished oils, pentanes plus, and gasoline blending components.
 E=Estimated value.
 Notes: • Geographic coverage is the 50 States and the District of Columbia.
 • Totals may not equal sum of components due to independent rounding.
 Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Merchandise Trade Value







Monthly Energy Review November 1985 Energy Information Administration

Merchandise Trade Value

| | | | Exports | | | Imports | 1 | | ade Balan | ice |
|------|--------------------------|---------------------|--------------------------|--------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------|----------------------------|
| | | Energy | Ail Other | Total | Energy | All Other | Total | Energy | All Other | Total |
| | | | | | | Million dolla | ars | | | |
| 1974 | Total | NA | NA | 98,092 | NA | NA | 102,559 | NA | NA | -4,467 |
| 1975 | Total | 4,470 | 103,182 | 107,652 | 28,325 | 70,178 | 98,503 | -23,855 | 33,004 | 9,149 |
| 1976 | Total | 4,226 | 110,997 | 115,223 | 36,384 | 87,093 | 123,477 | -32,158 | 23,904 | -8,254 |
| 1977 | Total | 4,184 | 117,048 | 121,232 | 47,153 | 103,237 | 150,390 | -42,969 | 13,811 | -29,158 |
| 1978 | Total | 3,882 | 139,799 | 143,681 | 44,763 | 129,994 | 174,757 | -40,881 | 9,805 | -31,076 |
| 1979 | Total | 5,675 | 176,185 | 181,860 | 63,077 | 146,381 | 209.458 | -57,402 | 29,803 | -27,599 |
| 1980 | Total | 7,982 | 212,644 | 220,626 | 82,924 | 161,947 | 244,871 | -74,942 | 50,698 | -24,244 |
| 1981 | Total | 10,279 | 223,398 | 233,677 | 81,360 | 179,622 | 260.982 | -71,081 | 43,776 | -27,305 |
| 1982 | Total | 12,729 | 199,464 | 212,193 | 65,409 | 179,022 | 243,952 | -52,680 | 20,921 | |
| | IVIAI | 12,723 | 155,404 | • | 05,409 | 170,343 | | • | 20,921 | -31,759 |
| 1983 | January | 1,142 | 16,090 | 17,232 | 5,142 | 14,985 | 20,127 | -4,000 | 1,105 | -2,895 |
| | February | 833 | 15,479 | 16,312 | 3,704 | 15,100 | 18,804 | -2,871 | 378 | -2,493 |
| | March | 822 | 15,868 | 16,690 | 3,865 | 15,663 | 19,528 | -3,043 | 206 | -2,837 |
| | April | 850 | 15,245 | 16,095 | 3,763 | 16,151 | 19,914 | -2,913 | -906 | -3,819 |
| | May | 750 | 14,905 | 15,655 | 5,033 | 16,413 | 21,446 | -4,283 | -1,508 | -5,791 |
| | June | 791 644 | 16,168 15,842 | 16,959 16,486 | 4,767 | 16,149 16,664 | 20,916 | -3,976 | 19 | -3,957 |
| | July August | 824 | 15,642 | 16,582 | 5,164 5,703 | 17,011 | 21,828 22,714 | -4,520 -4,879 | -821 | -5,341 |
| | September | 778 | 16,479 | 17,257 | 5,571 | 16,880 | 22,451 | -4,793 | -1,253 -402 | -6,132 -5,195 |
| | October | 699 | 16,334 | 17,033 | 5,872 | 18,461 | 24,333 | -5,173 | -2,127 | -7,300 |
| | November | 689 | 16,374 | 17,063 | 4,951 | 18,164 | 23,115 | -4,262 | -1,790 | -6,052 |
| | December | 739 | 16,559 | 17,298 | 4,417 | 18,559 | 22,976 | -3,678 | -2,000 | -5,678 |
| | Total | 9,500 | 190,986 | 200,486 | 57,952 | 200,096 | 258,048 | -48,452 | -9,110 | -57,562 |
| 1984 | January | 582 | 17,307 | 17,889 | 5,089 | 21,116 | 26,205 | -4,507 | -3,809 | -8,316 |
| | February | 502 | 16,706 | 17,208 | 5,006 | 21,414 | 26,420 | -4,504 | -4,708 | -9,212 |
| | March | 790 | 17,116 | 17,906 | 5,323 | 21,625 | 26,948 | -4,533 | -4,510 | -9,043 |
| | April | 759 | 16,761 | 17,520 | 5,629 | 22,445 | 28,074 | -4,870 | -5,683 | -10,553 |
| | May | 901 | 17,077 | 17,978 | 4,696 | 21,316 | 26,012 | -3,795 | -4,239 | -8,034 |
| | June | 872 | 16,833 | 17,705 | 5,206 | R20,073 | R25,279 | -4,334 | -3,237 | -7,571 |
| | July | 765 | 18,389 | 19,154 | 5,434 | 25,900 | 31,334 | -4,669 | -7,511 | -12,180 |
| | August | 878 | 17,245 | 18,123 | 4,886 | 21,980 | 26,866 | -4,008 | -4,735 | -8,743 |
| | September | 820 | 17,390 | 18,210 | 4,663 | 23,746 | 28,409 | -3,843 | -6,357 | -10,200 |
| | October November | 757 712 | 17,654 17,683 | 18,411 18,395 | 5,168 | 21,615 | 26,783 | -4,411 | -3,961 | -8,372 |
| | December | 973 | 18,169 | 19,142 | 5,207 4,672 | 22,124 21,261 | 27,331 25,933 | -4,495 -3,699 | -4,442 -3,092 | -8,937 -6,791 |
| | Total | 9,311 | 208,554 | 217,865 | 60,980 | 264,746 | 325,726 | -51,669 | | -107,861 |
| 1985 | January . | 804 | 18,597 | 19,401 | 4,434 | 23,863 | 28,297 | -3,630 | -5,266 | -8,896 |
| | February | 786 | 17,067 | 17,853 | 3,989 | 23,996 | 27,985 | -3,203 | -6,928 | -10,131 |
| | March | 754 | 17,692 | 18,446 | 3,351 | 24,778 | 28,129 | -2,597 | -7,086 | -9,683 |
| | April | 738 | 17,041 | 17,779 | 4,876 | 23,419 | 28,295 | -4,138 | -6,378 | -10,516 |
| | May | 837 | 16,577 | 17,414 | 4,748 | 23,937 | 28,685 | -3,911 | -7,360 | -11,271 |
| | June | 708 | 16,730 | 17,438 | 5,088 | 24,337 | 29,425 | -4,380 | -7,607 | -11,987 |
| | July | 760 | 16,652 | 17,412 | 4,146 | 22,484 | 26,630 | -3,386 | -5,833 | -9,219 |
| | August | 934 | 16,489 | 17,423 | 3,937 | 22,146 | 26,083 | -3,003 | -5,657 | -8,660 |
| | September | 868 | 16,864 | 17,732 | 4,597 | 27,167 | 31,764 | -3,729 | -10,303 | -14,032 |
| | October | 903 | 16,465 | 17,368 | 4,699 | 22,895 | 27,594 | -3,796 | -6,430 | -10,226 |
| | November | 991 | 16,985 | 17,976 | 4,824 | 25,461 | 30,285 | -3,833 | -8,477 | -12,310 |
| | December Year to Date | 888 9,971 | 16,136 203,162 | 17,024 213,133 | 5,228 53,917 | 27,660 291,359 | 32,888 345,276 | -4,340 -43,946 | -11,524 -88,197 | -15,864 -132,143 |
| | | -, | | , | , | | | | , | |

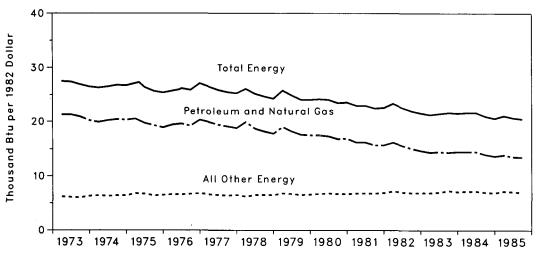
R=Revised data. NA=Not available.

Notes: • Annual totals are unadjusted and may not equal the sum of monthly totals, which are adjusted for seasonal and working-day variation, if present and identifiable.
• The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory (which is comprised of the 50 States, the District of Columbia, and Puerto Rico) and the Virgin Islands. Additional Notes and Sources: • See the last page of this section.

Energy Indicator—Energy Consumption per Dollar of Gross National Product (Seasonally Adjusted)

| | | Annual Rate | | Energy Consumption | umption per Dollar of GNP (Seasonally Adjusted) | | | |
|------|--------------------------|--------------------------|---------------------------------|--------------------|---|---------------------|--|--|
| | | of Energy Consumption | Gross National Product (GNP) | Total Energy | Petroleum and Natural Gas | All Other Energy | | |
| | | Quadrillion Btu | Trillion 1982 dollars | Th | ousand Btu per 1982 doll | ar | | |
| 1973 | Year | 74.282 | 2.744 | 27.1 | 20.9 | 6.2 | | |
| 1974 | Year | 72.543 | 2.729 | 26.6 | 20.2 | 6.4 | | |
| 1975 | Year | 70.546 | 2.695 | 26.2 | 19.6 | 6.6 | | |
| 1976 | Year | 74.362 | 2.827 | 26.3 | 19.6 | 6.7 | | |
| 1977 | Year | 76.289 | 2.959 | 25.8 | 19.3 | 6.5 | | |
| 1978 | Year | 78.088 | 3.115 | 25.1 | 18.6 | 6.5 | | |
| 1979 | Year | 78.898 | 3.192 | 24.7 | 18.1 | 6.6 | | |
| 1980 | Year | 75.952 | 3.187 | 23.8 | 17.1 | 6.7 | | |
| 1981 | Year | 73.989 | 3.249 | 22.8 | 16.0 | 6.8 | | |
| 1982 | Year | 70.840 | 3.166 | 22.4 | 15.4 | 7.0 | | |
| 1983 | 1st Quarter ¹ | 68.032 | 3.191 | 21.3 | 14.4 | 6.9 | | |
| | 2nd Quarter ¹ | 69.936 | 3.259 | 21.5 | 14.5 | 7.0 | | |
| • | 3rd Quarter ¹ | 71.302 | 3.293 | 21.7 | 14.4 | 7.3 | | |
| | 4th Quarter ¹ | 72.655 | 3.357 | 21.6 | 14.5 | 7.1 | | |
| | Year | 70.495 | 3.275 | 21.5 | 14.5 | 7.0 | | |
| 1984 | 1st Quarter ¹ | 74.841 | 3.449 | 21.7 | 14.5 | 7.2 | | |
| | 2nd Quarter ¹ | 75.645 | 3.493 | 21.7 | 14.5 | 7.2 | | |
| | 3rd Quarter ¹ | 73.602 | 3.510 | 21.0 | 14.0 | 7.0 | | |
| | 4th Quarter ¹ | 72.369 | 3.516 | 20.6 | 13.7 | 6.9 | | |
| | Year | 74.108 | 3.492 | 21.2 | 14.2 | 7.0 | | |
| 1985 | 1st Quarter ¹ | 74.959 | 3.548 | 21.1 | 13.9 | 7.2 | | |
| | 2nd Quarter ¹ | 73.738 | 3.557 | 20.7 | 13.6 | 7.1 | | |
| | 3rd Quarter ¹ | 73.373 | 3.584 | 20.5 | 13.5 | 7.0 | | |

Quarterly Energy Consumption per Dollar of Gross National Product¹ (Seasonally Adjusted)

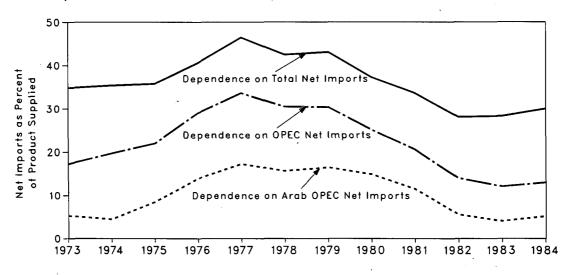


¹Quarterly data are seasonally adjusted and shown at annual rates.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Yearly data may not equal average of quarters due to seasonality adjustments and independent rounding.
Sources: • See the last page of this section.

Energy Indicator-U.S. Dependence on Petroleum Net Imports¹

| | | Net Imports ² | | | | Net Imports as Percent of U.S. Petroleum Products Supplied | | | |
|-------|-------------|---|--|--------------------------|-----------------------------------|---|--|--------------------------|--|
| | | From Arab OPEC ^a Countries | From All OPEC ⁴ Countries | From All Countries | Petroleum Products Supplied | From Arab OPEC ³ Countries | From All OPEC ⁴ Countries | From All Countries | |
| Annua | I Rate | | Thousand ba | urrels per day | | Percent | | | |
| 1973 | Average | 914 | 2,991 | 6,025 | 17,308 | 5.3 | 17.3 | 34.8 | |
| 1974 | Average | 752 | 3,277 | 5,892 | 16,653 | 4.5 | 19.7 | 35.4 | |
| 1975 | Average | 1,382 | 3,599 | 5,846 | 16,322 | 8.5 | 22.0 | 35.8 | |
| 1976 | Average | 2,423 | 5,063 | 7,090 | 17,461 | 13.9 | 29.0 | 40.6 | |
| 1977 | Average | 3,184 | 6,190 | 8,565 | 18,431 | 17.3 | 33.6 | 46.5 | |
| 1978 | Average | 2,962 | 5,747 | 8,002 | 18,847 | 15.7 | 30.5 | 42.5 | |
| 1979 | Average | 3,054 | 5,633 | 7,985 | 18,513 | 16.5 | 30.4 | 43.1 | |
| 1980 | Average | 2,549 | 4,293 | 6,365 | 17,056 | 14.9 | 25.2 | 37.3 | |
| 1981 | Average | 1,844 | 3,315 | 5,401 | 16,058 | 11.5 | 20.6 | 33.6 | |
| 1982 | Average | 852 | 2,136 | 4,298 | 15,296 | 5.6 | 14.0 | 28.1 | |
| 1983 | 1st Quarter | 351 | 1,174 | 3,079 | 15,026 | 2.3 | 7.8 | 20.5 | |
| | 2nd Quarter | 444 | 1,708 | 4,237 | 14,825 | 3.0 | 11.5 | 28.6 | |
| | 3rd Quarter | 860 | 2,501 | 5,370 | 15,333 | 5.6 | 16.3 | 35.0 | |
| | 4th Quarter | 857 | 1,972 | 4,536 | 15,732 | 5.4 | 12.5 | 28.8 | |
| | Average | 630 | 1,843 | 4,312 | 15,231 | 4.1 | 12.1 | 28.3 | |
| 1984 | 1st Quarter | 769 | 1,878 | 4,802 | 16,110 | 4.8 | 11.7 | 29.8 | |
| | 2nd Quarter | 907 | 2,278 | 4,853 | 15,632 | 5.8 | 14.6 | 31.0 | |
| | 3rd Quarter | 877 | 2,080 | 4,590 | 15,625 | 5.6 | 13.3 | 29.4 | |
| | 4th Quarter | 715 | 1,912 | 4,618 | 15,538 | 4.6 | 12.3 | 29.7 | |
| | Average | 817 | 2,037 | 4,715 | 15,726 | 5.2 | 13.0 | 30.0 | |
| 1985 | 1st Quarter | 327 | 1,364 | 3,564 | 15,807 | 2.1 | 8.6 | 22.5 | |
| | 2nd Quarter | 536 | 1,837 | 4,567 | 15,452 | 3.5 | 11.9 | 29.6 | |
| | 3rd Quarter | 292 | 1,767 | 4,116 | 15,562 | 1.9 | 11.4 | 26.4 | |

U.S. Dependence on Petroleum Net Imports

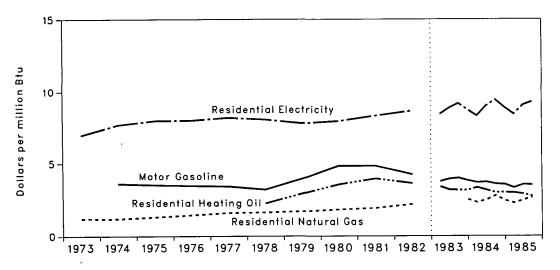


¹Beginning in October 1977, Strategic Petroleum Reserves are included. ^aNet imports equals imports minus exports. Imports from OPEC countries exclude indirect imports which are petroleum products imported primarily from Caribbean and West European areas and refined from crude oil produced in OPEC countries. ^aIncludes Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates. ⁴Includes Arab OPEC countries plus Ecuador, Gabon, Indonesia, Iran, Nigeria, and Venezuela. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Annual averages may not equal average of quarters due to independent rounding. Sources: • See the last page of this section.

Energy Indicator—Cost of Fuels to End Users in Constant (1972) Dollars¹

| | <i>.:</i> | Leaded Regular Motor Gasoline | | | Residential Heating Oil | | Residential Natural Gas | | lential tricity |
|------|-------------|----------------------------------|----------|----------|----------------------------|----------|----------------------------|----------|--------------------|
| | | Cent/gal | \$/MMBtu | Cent/gal | \$/MMBtu | Cent/Mcf | \$/MMBtu | Cent/kWh | \$/MMBtu |
| 1973 | Average | NA | NA | NA | NA | 121.4 | 1.19 | 2.39 | 7.00 |
| 1974 | Average | 45.1 | 3.61 | NA | NA | 121.3 | 1.18 | 2.63 | 7.71 |
| 1975 | Average | 44.1 | 3.53 | NA | NA | 132.9 | 1.30 | 2.73 | 8.00 |
| 1976 | Average | 43.4 | 3.47 | NA | NA | 145.5 | 1.43 | 2.74 | 8.03 |
| 1977 | Average | 42.9 | 3.43 | NA | NA | 162.2 | 1.59 | 2.80 | 8.21 |
| 1978 | Average | 40.1 | 3.21 | 31.4 | 2.26 | 164.2 | 1.62 | 2.76 | 8.09 |
| 1979 | Average | 49.4 | 3.95 | 40.6 | 2.93 | 171.8 | 1.69 | 2.67 | 7.83 |
| 1980 | Average | 60.5 | 4.84 | 49.4 | 3.56 | 186.8 | 1.82 | 2.72 | 7.97 |
| 1981 | Average | 60.4 | 4.83 | 54.9 | 3.96 | 197.3 | 1.92 | 2.85 | 8.35 |
| 1982 | Average | 53.0 | 4.24 | 50.3 | 3.63 | 224.1 | 2.19 | 2.97 | 8.70 |
| 1983 | 1st Quarter | 47.1 | 3.77 | 47.3 | 3.41 | NA | NA | 2.89 | 8.47 |
| | 2nd Quarter | 49.3 | 3.94 | 44.2 | 3.19 | NA | NA | 3.03 | 8.88 |
| | 3rd Quarter | 50.0 | 4.00 | 43.9 | 3.17 | NA | NA | 3.14 | 9.20 |
| | 4th Quarter | 47.9 | 3.83 | 43.9 | 3.17 | 260.9 | 2.53 | 2.99 | 8.76 |
| | Average | 48.6 | 3.89 | 45.3 | 3.27 | 254.5 | 2.47 | 3.01 | 8.82 |
| 1984 | 1st Quarter | 46.1 | 3.69 | 46.4 | 3.35 | R239.2 | R2.32 | 2.85 | 8.35 |
| | 2nd Quarter | 46.5 | 3.72 | 43.9 | 3.17 | 256.1 | 2.49 | 3.08 | 9.03 |
| | 3rd Quarter | 44.9 | 3.59 | 41.6 | 3.00 | 286.9 | 2.79 | 3.22 | 9.44 |
| | 4th Quarter | 44.5 | 3.56 | 41.7 | 3.01 | 253.5 | 2.46 | 3.04 | 8.91 |
| | Average | 45.5 | 3.64 | 43.9 | 3.17 | 246.5 | 2.39 | 3.04 | 8.91 |
| 1985 | 1st Quarter | 41.7 | 3.33 | 41.5 | 2.99 | 234.5 | 2.28 | 2.89 | 8.47 |
| | 2nd Quarter | 44.4 | 3.55 | 40.2 | 2.90 | 255.5 | 2.48 | 3.10 | 9.09 |
| | 3rd Quarter | 44.2 | 3.53 | 38.1 | 2.75 | 275.7 | 2.68 | 3.18 | 9.32 |

Average Cost of Fuels to End Users in Constant (1972) Dollars¹



¹Fuel costs shown on this page are calculated using the Urban Consumer Price Index developed by the Bureau of Labor Statistics. See the Conversion Factors section of this report. NA=Not available. R=Revised data.

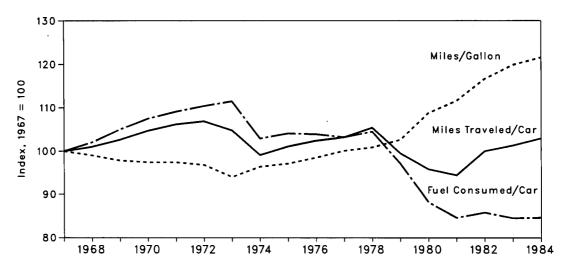
NA=Not available. R = newsed data. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Annual averages may not equal average of quarters due to independent rounding.

Sources: . See the last page of this section.

Energy Indicator—U.S. Passenger Car Efficiency

| | Average Fuel Consumed per Car | | Averag Traveled | e Miles I per Car | Average Miles Traveled per Gallon of Fuel Consumed | |
|-------|----------------------------------|-------|--------------------|----------------------|--|-------|
| | Gallons | Index | Miles | Index | Miles | Index |
| 1967 | 684 | 100.0 | 9,531 | 100.0 | 13.93 | 100.0 |
| 1968 | 698 | 102.0 | 9,627 | 101.0 | 13.79 | 99.0 |
| 1969 | 718 | 105.0 | 9,782 | 102.6 | 13.63 | 97.8 |
| 1970 | 735 | 107.5 | 9,978 | 104.7 | 13.57 | 97.4 |
| 1971 | 746 | 109.1 | 10,121 | 106.2 | 13.57 | 97.4 |
| 1972 | 755 | 110.4 | 10,184 | 106.9 | 13.49 | 96.8 |
| 1973 | 763 | 111.5 | 9,992 | 104.8 | 13.10 | 94.0 |
| 1974 | 704 | 102.9 | 9,448 | 99.1 | 13.43 | 96.4 |
| 1975 | 712 | 104.1 | 9,634 | 101.1 | 13.53 | 97.1 |
| 1976 | 711 | 103.9 | 9,763 | 102.4 | 13.72 | 98.5 |
| 1977 | 706 | 103.2 | 9,839 | 103.2 | 13.94 | 100.1 |
| 1978 | 715 | 104.5 | 10,046 | 105.4 | 14.06 | 100.9 |
| 1979 | 664 | 97.1 | 9,485 | 99.5 | 14.29 | 102.6 |
| 1980 | 603 | 88.2 | 9,135 | 95.8 | 15.15 | 108.8 |
| 1981 | 579 | 84.6 | 9,002 | 94.4 | 15.54 | 111.6 |
| 1982 | 587 | 85.8 | 9,533 | 100.0 | 16.25 | 116.7 |
| 1983 | 57 8 | 84.5 | 9,654 | 101.3 | 16.70 | 119.9 |
| 1984† | 579 | 84.6 | 9,809 | 102.9 | 16.94 | 121.6 |

U.S. Passenger Car Efficiency Index



†Preliminary data.
Note: • Geographic coverage is the 50 States and the District of Columbia.
Sources: • See the last page of this section.

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Population-Weighted Heating Degree-Days¹

| | | January | 1 through | January 31 | | Cumulative July 1 through January 31 | | | | |
|---|---------------------|---------|-----------|-------------------|-----------------|---|-------|---------|-------------------|-----------------|
| Census | | | - | Percent | Change | Pe | | Percent | ercent Change | |
| Divisions | Normal ² | 1985 | 1986 | Normal to 1986 | 1985 to 1986 | Normal ² | 1985 | 1986 | Normal to 1986 | 1985 to 1986 |
| New England CT, ME, MA, NH, RI, VT | 1,229 | 1,382 | 1,168 | -5.0 | -15.5 | 3,643 | 3,632 | 3,581 | -1.7 | -1.4 |
| Middle Atlantic NJ, NY, PA | 1,155 | 1,253 | 1,106 | -4.2 | -11.7 | 3,293 | 3,097 | 3,146 | -4.5 | 1.6 |
| Eastern North Central IL, IN, MI, OH, WI | 1,299 | 1,443 | 1,233 | -5.1 | -14.6 | 3,660 | 3,647 | 3,824 | 4.5 | 4.9 |
| Western North Central IA, KS, MN, MO, NE, ND, SD | 1,410 | 1,506 | 1,175 🚬 | -16.7 | -22.0 | 3,953 | 4,051 | 4,318 | 9.2 | 6.6 |
| South Atlantic DE, FL, GA, MD and DC, NC, SC, VA, WV | 666 | 800 | 677 | 1.7 | -15.4 | 1,812 | 1,718 | 1,692 | -6.6 | -1.5 |
| Eastern South Central AL, KY, MS, TN | 802 | 1,035 | 801 | -0.1 | -22.6 | 2,187 | 2,074 | 2,065 | -5.6 | -0.4 |
| Western South Central AR, LA, OK, TX | 600 | 776 | 489 | -18.5 | -37.0 | 1,494 | 1,516 | 1,431 | -4.2 | -5.6 |
| Mountain AZ, CO, ID, MT, NV, NM, UT, WY | 1,015 | 1,089 | 826 | -18.6 | -24.2 | 3,210 | 3,438 | 3,338 | 4.0 | -2.9 |
| Pacific Coast CA, OR, WA | 596 | 630 | 433 | -27.3 | -31.3 | 1,786 | 1,955 | 1,837 | 2.9 | -6.0 |
| U.S. Average ³ | 961 | 673 | 878 | -8.6 | 30.5 | 2,718 | 2,704 | 2,728 | 0.4 | 0.9 |

See Note 6 on the last page of this section for explanation of degree-days.
 Normal is based on calculations of data from 1951 through 1980.
 Excludes Alaska and Hawaii.
 Source: • See Note 6 on the last page of this section.

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Notes and Sources for the Energy Summary Section

Notes

1. Energy Production: Production of energy includes production of coal, crude oil and lease condensate, natural gas plant liquids, natural gas (dry), electric utility and industrial production of hydroelectric power, electricity generated from nuclear power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. The volumetric data are converted to approximate heat contents (Btu values) of these energy sources using the conversion factors provided in the Conversion Factors section of this publication.

2. Energy Consumption: Consumption of energy includes consumption of coal, natural gas (including supplemental gaseous fuels), petroleum products supplied, electric utility and industrial production of hydroelectric power, net imports of electricity produced from hydroelectric power, net imports of coal coke, electricity generated from nuclear power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication.

3. Energy Imports: Energy imports include imports of coal, crude oil (including crude oil imported for the Strategic Petroleum Reserve), petroleum products, natural gas, electricity produced from hydroelectric power, and coal coke. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication. For further information on electricity, see the note and sources for imports and exports of electricity in Note 7 of the Notes and Sources for the Consumption Section.

4. Energy Exports: Energy exports include coal, crude oil, petroleum products, natural gas, electricity produced from hydroelectric power, and coal coke. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication. For more information on electricity, see the note and sources for imports and exports of electricity in Note 7 of the Notes and Sources for the Consumption Section.

5. Merchandise Trade Value: The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory (which includes the 50 States, the District of Columbia, and Puerto Rico) and the Virgin Islands. The statistics exclude imports into Guam, American Samoa, and other U.S. possessions, as well as shipments between the United States and Puerto Rico and the Virgin Islands, between the United States and other U.S. possessions, and between any of these outlying areas. From January 1981 forward, import data presented are on a customs value basis. All other values are on a free alongside ship (f.a.s.) basis. Monthly data are adjusted for seasonal and working-day variation, if present and identifiable; annual data are unadjusted, and annual totals may not equal sum of monthly totals. Statistics include nonmonetary gold. Statistics exclude Department of Defense Military Program Grant-Aid shipments. "All Other" and "Total" columns include foreign exports (i.e., reexports). The "Energy" columns include mineral fuels, lubricants, and related material. "Imports" represent general imports (i.e., entries for immediate consumption, entries into customs bonded warehouses, and entries for the Strategic Petroleum Reserve). "Trade Balance" is exports minus imports; a positive balance indicates a surplus trade value. The "All Other" columns are calculated by subtracting "Energy" from "Total."

6. Degree-Days: Degree-days are relative measurements of outdoor air temperature. Cooling degree-days are defined as deviations of the mean daily temperature at a sampling station above a base temperature equal to 65 °F by conven-

tion. Heating degree-days are deviations of the mean daily temperature below 65 °F. For example, if a weather station recorded a mean daily temperature of 78 °F, cooling degree-days for that station would be 13 (and heating degree-days, 0). A weather station recording a mean daily temperature of 40 °F would report 25 heating degree-days (and 0 cooling degree-days).

There are several degree-day data bases maintained by the National Oceanic and Atmospheric Administration. The information published in the *Monthly Energy Review* (MER) is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland. The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at these weather stations is used to calculate statewide degree-day averages based on population. The State figures are then aggregated into Census Divisions and into the national average. The population weights currently used represent resident State population data estimated for 1980 by the U.S. Department of Commerce, Bureau of the Census. The data shown in the MER are available sooner than the Historical Climatology Series 5-1 and 5-2 developed by the National Climatic Center, Asheville, NC, which compiles data from some 8,000 weather stations.

Sources

Merchandise Trade Value: • 1974 through 1980: U.S. Department of Commerce, Bureau of the Census, "Highlights of U.S. Export and Import Trade," FT990 (January 1982), Appendix for total imports and exports. Energy imports and exports from U.S. Department of Commerce, Bureau of the Census, "Summary of U.S. Export and Import Merchandise Trade," December issues, plus Bureau of the Census reports EA691 "Exports from the Virgin Islands to Foreign Countries," and IA245V "U.S. Imports for Consumption and General Imports into the Virgin Islands."

• 1981 forward: U.S. Department of Commerce, Bureau of the Census, "Summary of U.S. Export and Import Merchandise Trade," most recent monthly issue. Gross National Product: • U.S. Department of Commerce,

Gross National Product: • U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*. U.S. Dependence on Petroleum Net Imports: • Imports

O.S. Dependence on Petroleum Net Imports: "Imports and products supplied—Part 3 of this publication.
 Exports—1973 through 1976: Bureau of Mines, *Mineral Industry Surveys*; 1977 through 1980: Energy Information Administration (EIA), *Energy Data Reports*, "Petroleum Statement, Annual"; 1981-1984: EIA, *Petroleum Supply* Ansult 1985; EIA, *Detroleum Supply* Mansult 1985; EIA, *Detroleum Supply*; Mansult 1985; EIA, Detroleum 1985; EIA, Detroleum 1985; EIA

nual; 1985: EIA, *Petroleum Supply Monthly*. Cost of Fuels to End Users in Constant (1972) Dollars:

• Leaded Regular Motor Gasoline—Bureau of Labor Statistics (BLS).

tics (BLS). • Residential Heating Oil—EIA, 1983 forward: EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA Form-782B, "Resellers/Retailers' Monthly Petroleum Product Sales Report." Prices prior to 1983 are EIA estimates using data from FEA Form P112-M1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" and EIA Form 9-A, "No. 2 Distillate Price Monitoring Report." See Note 8 in the Notes and Sources for the Price Section for additional information. • Residential Natural Gas—EIA. Annual data from Form

 Residential Natural Gas—EIA, Annual data from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." Monthly data from Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

 Residential Electricity—Federal Energy Regulatory Commission (FERC), 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: FERC Form 5, "Electric Utility Company Monthly Statement."
 Deflator (The Urban Consumer Price Index)—BLS.

• Deflator (The Urban Consumer Price Index)—BLS. U.S. Passenger Car Efficiency: • Indexes prepared from statistics published by the U.S. Department of Transportation, Federal Highway Administration, Federal Highway Statistics Division, "Highway Statistics," Table VM-1.

1. A.S.

Total U.S. energy consumption in November 1985 was 6.1 quadrillion Btu, 1.1 percent below the November 1984 level. Petroleum products accounted for 40.9 percent of the energy consumed in November 1985, while natural gas accounted for 25.8 percent and coal accounted for 23.0 percent.

The transportation sector used 63.2 percent of the petroleum products consumed in November 1985 and the industrial sector used 26.2 percent. Of natural gas consumed, the industrial sector used 51.0 percent; the residential and commercial sector, 30.9 percent; and electric utilities, 15.1 percent. Most of the coal used (81.9 percent) was consumed by electric utilities. The residential and commercial sector used 62.4 percent of total electricity sales, while the industrial sector used 37.5 percent.

Residential and commercial sector consumption was 2.0 quadrillion Btu in November 1985, down 0.3 percent from the level in November 1984. This sector consumed 32.8 percent of the November 1985 total, up from its 32.5-percent share in November 1984. Industrial sector consumption was 2.5 quadrillion Btu in November 1985, down 2.7 percent from the November 1984 level. The industrial sector accounted for 40.5 percent of the November 1985 total consumption, down from the industrial sector's 41.2-percent share in November 1984.

Transportation sector consumption of energy was 1.6 quadrillion Btu in November 1985, up 0.3 percent from the November 1984 level. This sector consumed 26.7 percent of the November 1985 total, up from the sector's 26.3-percent share in November 1984.

The electric utilities consumption of energy was an estimated 2.1 quadrillion Btu in November 1985, 2.1 percent higher than in November 1984. Coal contributed 54.9 percent of the energy consumed by electric utilities in November 1985, while nuclear electric power contributed 15.6 percent; hydroelectric power, 13.5 percent; natural gas, 11.4 percent; petroleum products, 3.6 percent; and geothermal, wood, waste, wind, photovoltaic, and solar thermal energy, 1.0 percent.

Consumption Summary for November 1985

(Quadrillion (1015) Btu)

Sector **Residential** and Electric **Energy Source** Commercial Industrial Utilities Transportation Total 0.019 Coal 0.233 0.000 1.146 1.400 0.486 Natural Gas³ 0.802 0.046 0.238 1.573 0.654 0.075 **Petroleum Products** 0.191 1.575 2.494 0.000 Hydroelectric Power 0.002 0.000 0.281 0.283 Nuclear Electric Power 0.000 0.000 0.000 0.326 0.326 0.000 (0.003)0.000 (0.003)Net Imports of Coal Coke 0.000 Other² 0.000 0.000 0.000 0.021 0.021 0.696 1.689 6.094 **Primary Consumption** 1.621 2.086 Electricity 0.381 0.229 0.001 (0.611)Net Energy Consumption 1.076 1.918 1.622 4.619 Electrical System Energy Losses 0.920 0.553 0.002 (1.475)1.475 6.094 **Total Energy Consumption** 1.996 2.471 1.625

Includes supplemental gaseous fuels. Transportation sector is pipeline fuel only.

² Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

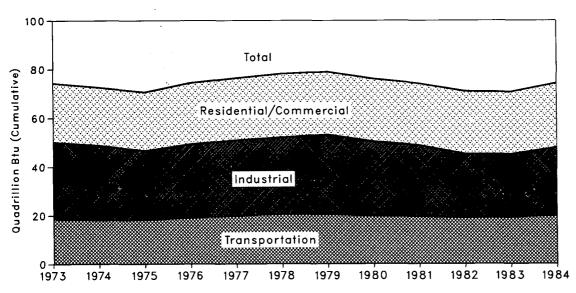
Notes: • Totals may not equal sum of components due to independent rounding and the use of sector-specific conversion factors.

Additional notes and sources are provided on the last four pages of this section.

Monthly Energy Review November 1985 Energy Information Administration

Consumption of Energy by End-Use Sector





Monthly

10 Quadrillion Btu (Cumulative) Total 8 6 Residential/Commercial 4 Industrial 2 Transportation 0 MAMJJASONDJFMAMJJASONDJFMAMJJASOND Ĵ F 1985 1983 1984

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Consumption of Energy by End-Use Sector

| | | Residential and | | | |
|--------|---------------------|--------------------|----------------|----------------|----------------|
| | | Commercial | Industrial | Transportation | Total |
| | | | Quadrillior | n (10¹⁵) Btu | |
| 1973 | Total | 24.142 | 31.537 | 18.596 | 74.282 |
| 1974 | Total | 23.726 | 30.697 | 18.113 | 72.543 |
| 1975 | Total | 23.899 | 28.407 | 18.240 | 70.546 |
| 1976 | Total | 25.018 | 30.243 | 19.093 | 74.362 |
| 1977 . | Total | 25.384 | 31.089 | 19.808 | 76.289 |
| 1978 | Total | 26.084 | 31,414 | 20,589 | 78.088 |
| 1979 | Total | 25.808 | 32.624 | 20.464 | 78.898 |
| 1980 | Total | 25.655 | 30.605 | 19.693 | 75.952 |
| 1981 | Total | 25.241 | 29,251 | 19.495 | 73.989 |
| 1982 | Total | 25.630 | 26.140 | 19.066 | 70.840 |
| 1983 | January | 2.820 | 2.156 | 1.506 | 6.483 |
| | February | 2.556 | 1.751 | 1.379 | 5.685 |
| | March | 2.351 | 2.046 | 1.660 | 6.058 |
| | April | 2.088 | 1.907 | 1.541 | 5.532 |
| | May | 1.733 | 2.021 | 1.603 | 5.354 |
| | June July | 1.723 1.957 | 2.000 2.091 | 1.639 | 5.364 |
| | August | 2.048 | 2.193 | 1.649 1.676 | 5.700 5.922 |
| | September | 1.798 | 2.133 | 1.598 | 5.538 |
| | October | 1.691 | 2.342 | 1.616 | 5.648 |
| | November | 1.943 | 2.459 | 1.566 | 5.966 |
| | December | 2.731 | 2.801 | 1.714 | 7.246 |
| | Total | 25.438 | 25.907 | 19.147 | 70.495 |
| 1984 | January | 3.275 | 2.418 | 1.668 | 7.364 |
| | February | 2.668 | 2.042 | 1.501 | 6.210 |
| | March | 2.548 | 2,429 | 1.675 | 6.652 |
| | April | 2.122 | 2.159 | 1.638 | 5.912 |
| | May | 1.857 | 2.301 | 1.718 | 5.872 |
| | June July | 1.833 1.948 | 2.264 2.276 | 1.676 1.724 | 5.774 |
| | August | 1.948 | 2.398 | 1.739 | 5.951 |
| | September | 1.755 | 2.390 | 1.609 | 6.133 5.610 |
| | October | 1.755 | 2.425 | 1.688 | 5.869 |
| | November | 2.002 | 2.540 | 1.620 | 6.164 |
| | December | 2.545 | 2.420 | 1.630 | 6.597 |
| | Total | 26.299 | 27.921 | 19.886 | 74.108 |
| 1985 | January | 3.090 | 2.633 | 1.653 | 7.382 |
| | February | 2.982 | 1.935 | 1.512 | 6.431 |
| | March | 2.460 | 2.140 | 1.656 | 6.257 |
| | April | 2.035 | 2.038 | 1.651 | 5.720 |
| | May | 1.781 | 2.235 | 1.716 | 5.732 |
| | June | 1.823 | 2.234 | 1.649 | 5.709 |
| | July | 2.008 | 2.217 | 1.739 | 5.969 |
| | August | 1.990 | 2.310 | 1.761 | 6.066 |
| | September | 1.819 | 2.233 | 1.587 | 5.642 |
| | October November | 1.817 1.996 | 2.440 2.471 | 1.733 1.625 | 5.993 6.094 |
| | Year to Date | 23.800 | | | |
| | rear to Date | 23.000 | 24.887 | 18.282 | 66.994 |

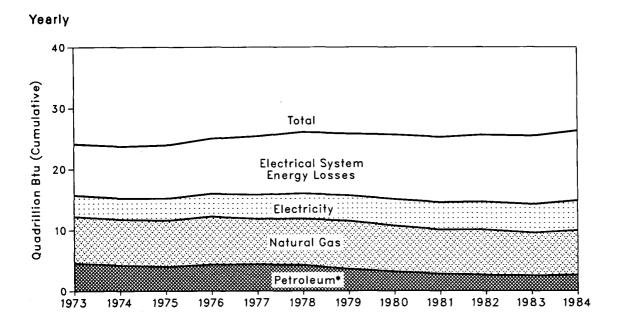
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Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding and the use of preliminary conversion factors after 1981. Additional Notes and Sources: • See the last four pages of this section.

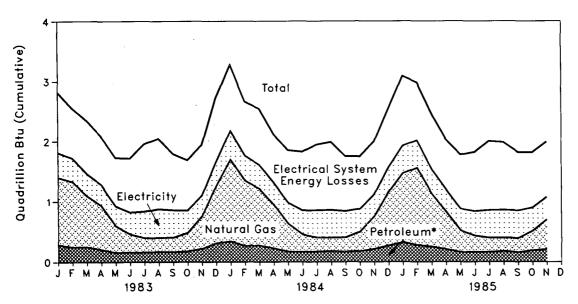
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Consumption of Energy by the Residential and Commercial Sector



Monthly



Includes coal.

Consumption of Energy by the Residential and Commercial Sector

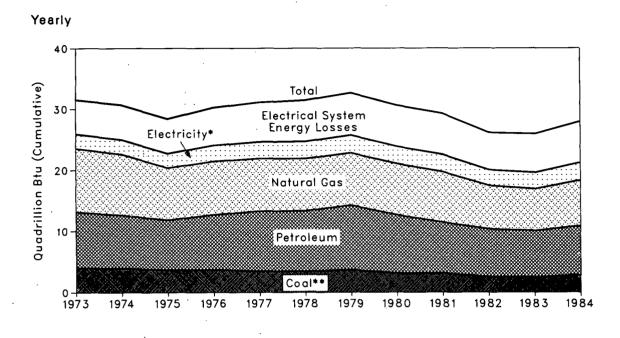
| | ĩ | Coal | Natural Gas¹ | Petroleum | Electricity | Electrical System Energy Losses | Total | Year to Date |
|------|---------------------|----------------|-----------------|----------------|--------------------|--|----------------|--------------------|
| | , | | | (| Quadrillion (1015) | Btu | | |
| 1973 | Total | 0.254 | 7.626 | 4.391 | 3.495 . | 8.377 | 24.142 | |
| 1974 | Total | 0.257 | 7.518 | 3,996 | 3.475 | 8.480 | 23.726 | |
| 1975 | Total | 0.209 | 7.581 | 3,805 | 3.604 | 8.700 | 23.899 | |
| 1976 | Total | 0.203 | 7.866 | 4,181 | 3.747 | 9.021 | 25.018 | |
| 1977 | Total | 0.205 | 7.461 | 4.206 | 3.955 | 9.556 | 25.384 | |
| 1978 | Total | 0.214 | 7.624 | 4.070 | 4.116 | 10.061 | 26.084 | |
| 1979 | Total | 0.187 | 7.891 | 3,448 | 4.184 | 10.100 | 25.808 | |
| 1980 | Total | 0.145 | 7.539 | 3.448 | 4.355 | 10.100 | 25.655 | |
| 1980 | Total | 0.168 | 7.242 | 2.634 | 4.355 4.497 | 10.560 | 25.241 | |
| 1982 | Total | 0.188 | 7.433 | 2.449 | 4.566 | 10.700 | 25.630 | |
| | | | | | | | | |
| 1983 | January | 0.020 | 1.118 | 0.266 | 0.413 | 1.003 | 2.820 | 2.820 |
| | February | 0.018 | 1.087 | 0.231 | 0.390 | 0.831 | 2.556 | 5.376 |
| | March | 0.013 | 0.852 | 0.236 | 0.365 | 0.885 | 2.351 | 7.726 |
| | April | 0.018 0.011 | 0.727 0.441 | 0.190 0.144 | 0.351 | 0.801 | 2.088 | 9.814 |
| | May June | 0.009 | 0.300 | 0.152 | 0.327 0.359 | 0.810 0.903 | 1.733 | 11.547 |
| | July | 0.014 | 0.241 | 0.144 | 0.435 | 1.123 | 1.723 1.957 | 13.270 15.227 |
| | August | 0.013 | 0.233 | 0.159 | 0.435 | 1.123 | 2.048 | 17.275 |
| | September | 0.017 | 0.240 | 0,150 | 0.450 | 0.940 | 1.798 | 19.072 |
| | October | 0.019 | 0.307 | 0.159 | 0.366 | 0.841 | 1.691 | 20.764 |
| | November | 0.020 | 0.531 | 0.202 | 0.350 | 0.841 | 1.943 | 22.707 |
| | December | 0.025 | 0.949 | 0.290 | 0.402 | 1.065 | 2.731 | 25.438 |
| | Total | 0.196 | 7.025 | 2.322 | 4.680 | 11.214 | 25.438 | |
| 1984 | January | 0.024 | 1.357 | 0.320 | 0.476 | 1.098 | 3.275 | 3.275 |
| | February | 0.021 | 1.084 | 0.247 | 0.418 | 0.897 | 2.668 | 5.943 |
| | March | 0.015 | 0.943 | 0.261 | 0.394 | 0.935 | 2.548 | 8.491 |
| | April | 0.022 | 0.728 | 0.207 | 0.360 | 0.804 | 2.122 | 10.613 |
| | May | 0.013 | 0.459 | 0.159 | 0.355 | 0.872 | 1.857 | 12.470 |
| | June | 0.010 | 0.287 | 0.159 | 0.395 | 0.981 | 1.833 | 14.303 |
| | July | 0.016 | 0.232 | 0.158 | 0.449 | 1.093 | 1.948 | 16.251 |
| | August | 0.015 | 0.224 | 0.164 | 0.456 | 1.133 | 1.991 | 18.243 |
| | September | 0.020 | 0.235 | 0.152 | 0.433 | 0.915 | 1.755 | 19.998 |
| | October November | 0.016 0.017 | 0.320 0.534 | 0.165 0.200 | 0.377 0.372 | 0.876 | 1.755 2.002 | 21.752 |
| | December | 0.022 | 0.889 | 0.250 | 0.372 | 0.879 0.975 | 2.545 | 23.754 26.299 |
| | Total | 0.212 | 7.291 | 2.443 | 4.894 | 11.458 | 26.299 | 20.233 |
| 1985 | January | 0.019 | 1.144 | 0.309 | 0.457 | 1.161 | 3.090 | 3.090 |
| 1900 | February | 0.015 | 1.280 | 0.263 | 0.457 | 0.963 | 2.982 | 6.072 |
| | March | 0.012 | 0.884 | 0.242 | 0.400 | 0.922 | 2.460 | 8.531 |
| | April | 0.018 | 0.619 | 0.194 | 0.371 | 0.834 | 2.035 | 10.566 |
| | May | 0.011 | 0.352 | 0.153 | 0.366 | 0.899 | 1.781 | 12.347 |
| | June | 0.008 | 0.267 | 0.158 | 0.405 | 0.984 | 1.823 | 14.170 |
| | July | 0.012 | 0.234 | 0.154 | 0.457 | 1.151 | 2.008 | 16.177 |
| | August | 0.011 | 0.219 | 0.169 | 0.463 | 1.127 | 1.990 | 18.168 |
| | September | 0.015 | 0.232 | 0.146 | 0.457 | 0.970 | 1.819 | 19.987 |
| | October | 0.016 | 0.319 | 0.175 | 0.390 | 0.917 | 1.817 | 21.804 |
| | November | 0.019 | 0.486 | 0.191 | 0.381 | 0.920 | 1.996 | 23.800 |
| | Year to Date | 0.158 | 6.037 | 2.153 | 4.604 | 10.848 | 23.800 | |

Includes supplemental gaseous fuels.
Notes:

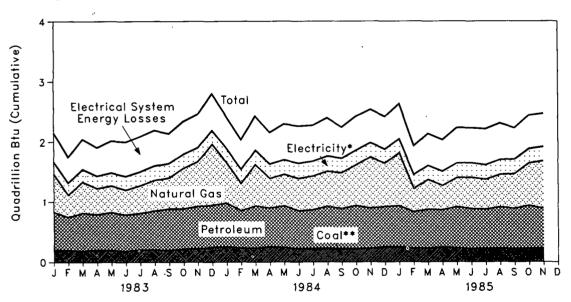
Geographic coverage is the 50 States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
Additional Notes and Sources:

See the last four pages of this section.

Consumption of Energy by the Industrial Sector



Monthly



Includes hydroelectric power.
Includes net imports of coal coke.

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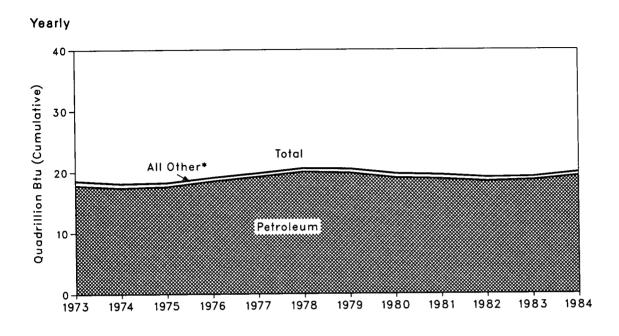
Consumption of Energy by the Industrial Sector

| | | Coal | Natural Gas ¹ | Petro- leum | Hydro- electric Power | Net Imports of Coal Coke | Electricity | Electricai System Energy Losses | Total | Year to Date |
|------|----------------------|----------------|-----------------------------|----------------|-----------------------------|-----------------------------------|----------------|--|----------------|--------------------|
| | | | | | Q | uadrillion (10 |)15) Btu | | | |
| 1973 | Total | 4.057 | 10.388 | 9.113 | 0.035 | (0.007) | 2.341 | 5.611 | 31.537 | |
| 1974 | Total | 3.870 | 10.003 | 8.698 | 0.033 | 0.056 | 2.337 | 5.700 | 30.697 | |
| 1975 | Total | 3.667 | 8.532 | 8.151 | 0.032 | 0.014 | 2.346 | 5.665 | 28.407 | |
| 1976 | Total | 3.661 | 8.761 | 9.018 | 0.033 | 0.000 | 2.573 | 6.198 | 30.243 | |
| 1977 | Total | 3.454 | 8.636 | 9.786 | 0.033 | 0.015 | 2.682 | 6.484 | 31.089 | |
| 1978 | Total | 3.314 | 8.539 | 9.890 | 0.032 | 0.125 | 2.761 | 6.755 | 31.414 | |
| 1979 | Total | 3.593 | 8.549 | 10.576 | 0.034 | 0.063 | 2.873 | 6.936 | 32.624 | |
| 1980 | Total | 3.155 | 8.394 | 9.524 | 0.033 | (0.035) | 2.781 | 6.752 | 30.605 | |
| 1981 | Total | 3.157 | 8.257 | 8.295 | 0.033 | (0.016) | 2.817 | 6.707 | 29.251 | |
| 1982 | Total | 2.552 | 7.116 | 7.798 | 0.033 | (0.022) | 2.542 | 6.121 | 26.140 | |
| 1983 | January | 0.211 | 0.645 | 0.620 | 0.003 | (0.001) | 0.198 | 0.480 | 2.156 | 2.156 |
| | February | 0.196 | 0.374 | 0.548 | 0.003 | (0.001) | 0.201 | 0.430 | 1.751 | 3.907 |
| | March | 0.187 | 0.527 | 0.626 | 0.003 | (0.001) | 0.206 | 0.498 | 2.046 | 5.953 |
| | April | 0.205 | 0.438 | 0.586 | 0.003 | (0.002) | 0.207 | 0.471 | 1.907 | 7.860 |
| | May | 0.198 | 0.452 | 0.625 | 0.003 | (0.002) | 0.214 | 0.529 | 2.021 | 9.881 |
| | June | 0.182 | 0.420 | 0.601 | 0.003 | (0.001) | 0.226 | 0.568 | 2.000 | 11.881 |
| | July | 0.206 | 0.470 | 0.602 | 0.003 | (0.002) | 0.227 | 0.585 | 2.091 | 13.972 |
| | August | 0.209 | 0.518 0.524 | 0.638 | 0.002 | (0.001) | 0.238 | 0.590 | 2.193 | 16.165 |
| | September October | 0.203 0.217 | 0.524 | 0.679 0.666 | 0.002 | (0.001) (0.001) | 0.238 0.235 | 0.496 | 2.141 | 18.306 |
| | November | 0.217 | 0.752 | 0.695 | 0.002 | (0.001) | 0.235 | 0.541 0.553 | 2.342 2.459 | 20.647 23.107 |
| | December | 0.249 | 1.019 | 0.696 | 0.002 | (0.003) | 0.229 | 0.607 | 2.801 | 25.907 |
| | Total | 2.490 | 6.821 | 7.583 | 0.033 | (0.016) | 2.648 | 6.349 | 25.907 | 20.007 |
| 1984 | January | 0.256 | 0.681 | 0.725 | 0.003 | 0.001 | 0.228 | 0.525 | 2.418 | 2.418 |
| | February | 0.237 | 0.462 | 0.615 | 0.003 | 0.002 | 0.230 | 0.494 | 2.042 | 4.461 |
| | March | 0.238 | 0.694 | 0.694 | 0.003 | (0.001) | 0.238 | 0.564 | 2.429 | 6.890 |
| | April | 0.253 | 0.501 | 0.641 | 0.003 | 0.000 | 0.236 | 0.526 | 2.159 | 9.049 |
| | May | 0.245 | 0.532 | 0.687 | 0.003 | (0.001) | 0.241 | 0.593 | 2.301 | 11.350 |
| | June | 0.225 | 0.545 | 0.625 | 0.003 | (0.002) | 0.249 | 0.619 | 2.264 | 13.614 |
| | July | 0.227 0.230 | 0.570 0.587 | 0.637 | 0.003 | (0.001) | 0.245 | 0.596 | 2.276 | 15.891 |
| | August September | 0.230 | 0.567 | 0.694 0.661 | 0.002 0.002 | (0.002) 0.000 | 0.254 0.243 | 0.632 0.514 | 2.398 2.247 | 18.289 20.536 |
| | October | 0.222 | 0.683 | 0.716 | 0.002 | (0.003) | 0.243 | 0.562 | 2.425 | 20.550 |
| | November | 0.232 | 0.858 | 0.662 | 0.002 | (0.003) | 0.234 | 0.554 | 2.540 | 25.501 |
| | December | 0.255 | 0.731 | 0.664 | 0.002 | (0.001) | 0.227 | 0.541 | 2.420 | 27.921 |
| | Total | 2.842 | 7.449 | 8.019 | 0.033 | (0.011) | 2.868 | 6.721 | 27.921 | |
| 1985 | January | 0.252 | 0.887 | 0.678 | 0.003 | 0.000 | 0.229 | 0.583 | 2.633 | 2.633 |
| | February | 0.233 | 0.396 | 0.597 | 0.003 | 0.001 | 0.227 | 0.478 | 1.935 | 4.569 |
| | March | 0.233 | 0.504 | 0.638 | 0.003 | 0.000 | 0.230 | 0.531 | 2.140 | 6.708 |
| | April | 0.248 | 0.413 | 0.614 | 0.003 | 0.001 | 0.234 | 0.525 | 2.038 | 8.746 |
| | May | 0.240 | 0.490 | 0.677 | 0.003 | (0.003) | 0.239 | 0.589 | 2.235 | 10.982 |
| | June July | 0.220 0,226 | 0.528 0.505 | 0.664 0.648 | 0.003 | (0.002) (0.002) | 0.239 0.238 | 0.581 0.599 | 2.234 2.217 | 13.215 15.432 |
| | August | 0.229 | 0.505 | 0.648 | 0.003 | (0.002) | 0.238 | 0.599 | 2.217 | 15.432 |
| | September | 0.222 | 0.583 | 0.668 | 0.002 | (0.003) | 0.244 | 0.517 | 2.233 | 19.975 |
| | October | 0.225 | 0.708 | 0.715 | 0.002 | (0.001) | 0.236 | 0.555 | 2.440 | 22.416 |
| | November | 0.233 | 0.802 | 0.654 | 0.002 | (0.003) | 0.229 | 0.553 | 2.471 | 24.887 |
| | Year to Date | 2.562 | 6.362 | 7.237 | 0.030 | (0.012) | 2.594 | 6.115 | 24.887 | |

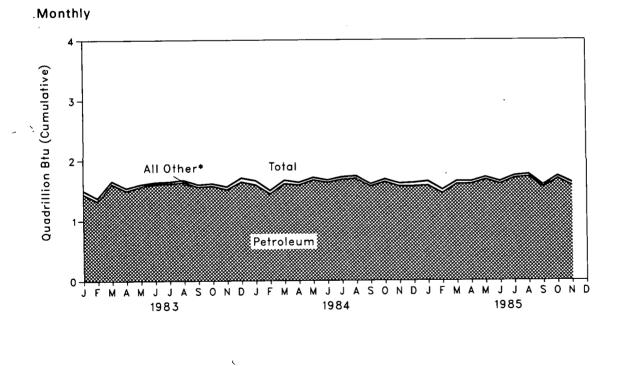
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¹Includes supplemental gaseous fuels.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Additional Notes and Sources: • See the last four pages of this section.

Consumption of Energy by the Transportation Sector



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*Includes coal, natural gas, electricity, and electrical system energy losses.

Consumption of Energy by the Transportation Sector

| | | Coal | Natural Gas¹ | Petroleum | Floatsiaity | Electrical System Energy | Tatal | Year to |
|------|---------------------|--------------------------------------|-----------------|----------------|---------------------|--------------------------------|--------------------|------------------|
| | | COar | Gas | renoieum | Electricity | Losses | Total | Date |
| | | | | Qua | drillion (1015) Btu | | | |
| 1973 | Total | 0.003 | 0.743 | 17.821 | 0.009 | 0.020 | 18.596 | |
| 1974 | Total | 0.002 | 0.685 | 17.396 | 0.009 | 0.022 | 18.113 | |
| 1975 | Total | 0.001 | 0.595 | 17.610 | 0.010 | 0.025 | 18.240 | |
| 1976 | Total | (2) | 0.559 | 18.499 | 0.010 | 0.025 | 19.093 | |
| 1977 | Total | (2) | 0.543 | 19.230 | 0.010 | 0.025 | 19.808 | |
| 1978 | Total | (2) | 0.539 | 20.019 | 0.009 | 0.022 | 20.589 | |
| 1979 | Totai | (2) | 0.612 | 19.817 | 0.010 | 0.025 | 20.464 | |
| 1980 | Total | (2) | 0.648 | 19.009 | 0.011 | 0.026 | 19.693 | |
| 1981 | Total | (2) | 0.657 | 18.800 | 0.011 | 0.026 | 19.495 | |
| 1982 | Total | (2) | 0.613 | 18.417 | 0.011 | 0.026 | 19.066 | |
| 1983 | January | (2) | 0.059 | 1,444 | 0.001 | 0.002 | 1.506 | 1.506 |
| | February | (2) | 0.049 | 1.327 | 0.001 | 0.002 | 1.379 | 2.885 |
| | March | (2) | 0.047 | 1.609 | 0.001 | 0.002 | 1.660 | 4.545 |
| | April | (2) | 0.041 | 1.497 | 0.001 | 0.002 | 1.541 | 6.086 |
| | May | (2) | 0.034 | 1.566 | 0.001 | 0.002 | 1.603 | 7.689 |
| | June | (2) | 0.029 | 1.607 | 0.001 | 0.002 | 1.639 | 9.327 |
| | July | (2) | 0.031 | 1.614 | 0.001 | 0.002 | 1.649 | 10.976 |
| | August September | (2) (3) | 0.033 0.032 | 1.640 1.563 | 0.001 0.001 | 0.002 | 1.676 | 12.652 |
| | October | (2) (2) | 0.032 | 1.576 | 0.001 | 0.002 0.002 | 1.598 | 14.250 |
| | November | (⁻) (²) | 0.037 | 1.576 | 0.001 | 0.002 | 1.616 1.566 | 15.866 17.432 |
| | December | (²) | 0.045 | 1.645 | 0.001 | 0.002 | 1.714 | 19.1432 |
| | Total | (2) | 0.504 | 18.605 | 0.011 | 0.026 | 19.147 | 15.147 |
| 1984 | January | (2) | 0.069 | 1.596 | 0.001 | 0.002 | 1.668 | 1.668 |
| | February | (2) | 0.053 | 1.445 | 0.001 | 0.002 | 1.501 | 3.169 |
| | March | (2) | 0.057 | 1.615 | 0.001 | 0.002 | 1.675 | 4.844 |
| | April | (2) | 0.044 | 1.591 | 0.001 | 0.002 | 1.638 | 6.482 |
| | May | (2) | 0.038 | 1.677 | 0.001 | 0.002 | 1.718 [,] | 8.200 |
| | June | (2) | 0.035 | 1.637 | 0.001 | 0.002 | 1.676 | 9.876 |
| | July | (2) | 0.035 | 1.686 | 0.001 | 0.002 | 1.724 | 11.600 |
| | August | (2) | 0.036 | 1.700 | 0.001 | 0.002 | 1.739 | 13.339 |
| | September | (2) | 0.034 | 1.572 | 0.001 | 0.002 | 1.609 | 14.947 |
| | October November | (2) (3) | 0.039 0.049 | 1.646 | 0.001 | 0.002 | 1.688 | 16.635 |
| | December | (2) (2) | 0.049 | 1.568 1.571 | 0.001 0.001 | 0.002 0.002 | 1.620 1.630 | 18.256 19.886 |
| | Total | (²) | 0.030 | 19.303 | 0.001 0.011 | 0.002 | 19.886 | 19.000 |
| 1985 | | | 0.069 | 1.581 | | 0.003 | | 1 050 |
| 1905 | January February | (2) (2) | 0.069 | 1.452 | 0.001 0.001 | 0.003 | 1.653 1.512 | 1.653 3.165 |
| | March | (⁷) | 0.048 | 1.605 | 0.001 | 0.002 | 1.656 | 4.821 |
| | April | (2) | 0.038 | 1.610 | 0.001 | 0.002 | 1.651 | 6.472 |
| | May | (2) | 0.033 | 1.680 | 0.001 | 0.002 | 1.716 | 8.189 |
| | June | (2) (2) (2) | 0.033 | 1.612 | 0.001 | 0.002 | 1.649 | 9.837 |
| | July | (2) | 0.033 | 1.703 | 0.001 | 0.003 | 1.739 | 11.577 |
| | August | (2) | 0.034 | 1.723 | 0.001 | 0.002 | 1.761 | 13.338 |
| | September | (2) | 0.033 | 1.551 | 0.001 | 0.002 | 1.587 | 14.925 |
| | October | (2) | 0.039 | 1.691 | 0.001 | 0.002 | 1.733 | 16.658 |
| | November | (2) | 0.046 | 1.575 | 0.001 | 0.002 | 1.625 | 18.282 |
| | Year to Date | (2) | 0.464 | 17.782 | 0.011 | 0.026 | 18.282 | |

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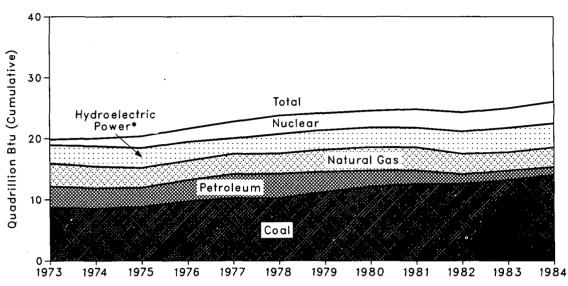
¹Pipeline fuel only, including supplemental gaseous fuels.
²Since 1976, the amount of coal consumed by the transportation sector has been negligible. Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding. Additional Notes and Sources: • See the last four pages of this section.

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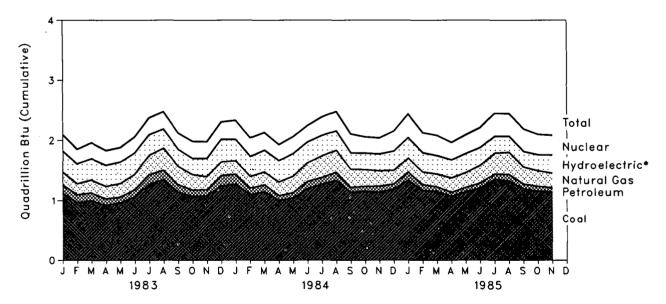
Monthly Energy Review November 1985 Energy Information Administration

Energy Input at Electric Utilities





Monthly



*Includes other.

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Energy Input at Electric Utilities

| | | Coal | Natural Gas¹ | Petro- leum ² | Hydro- electric Power³ | Nuclear Electric Power | Other⁴ | Total | Year to Date |
|------|----------------------|----------------|-----------------|-----------------------------|------------------------------|------------------------------|----------------|----------------|--------------------|
| | | | | | Quadrillion | (10¹⁵) Btu | | | |
| 1973 | Total | 8.658 | 3.748 | 3.515 | 2.975 | 0.910 | 0.046 | 19.852 | |
| 1974 | Total | 8.534 | 3.519 | 3.365 | 3.276 | 1.272 | 0.056 | 20.022 | |
| 1975 | Total | 8.786 | 3.240 | 3.166 | 3.187 | 1.900 | 0.072 | 20.350 | |
| 1976 | Total | 9.720 | 3.152 | 3.477 | 3.032 | 2.111 | 0.081 | 21.574 | |
| 1977 | Total | 10.262 | 3.284 | 3.901 | 2.482 | 2.702 | 0.082 | 22.713 | |
| 1978 | Total | 10.238 | 3.297 | 3.987 | 3.110 | 3.024 | 0.068 | 23.724 | |
| 1979 | Total | 11.260 | 3.613 | 3.283 | 3.107 | 2.776 | 0.089 | 24.128 | |
| 1980 | Total | 12.123 | 3.810 | 2.634 | 3.085 | 2.739 | 0.114 | 24.120 | |
| 1981 | Total | 12.583 | 3.768 | 2.202 | 3.072 | | | | |
| 1981 | Total | | | | | 3.008 | 0.127 | 24.760 | |
| 1902 | TOLAI | 12.582 | 3.342 | 1.568 | 3.528 | 3.131 | 0.108 | 24.259 | |
| 1983 | January | 1.128 | 0.215 | 0.137 | 0.334 | 0.273 | 0.011 | 2.097 | 2.097 |
| | February | 0.967 | 0.182 | 0.134 | 0.321 | 0.242 | 0.008 | 1.855 | 3.952 |
| | March | 0.996 | 0.214 | 0.133 | 0.345 | 0.261 | 0.009 | 1.958 | 5.909 |
| | April | 0.921 | 0.209 | 0.110 | 0.341 | 0.244 | 0.009 | 1.833 | 7.743 |
| | May | 0.965 | 0.225 | 0.097 | 0.349 | 0.240 | 0.007 | 1.883 | 9.626 |
| | June | 1.064 | 0.255 | 0.119 | 0.348 | 0.263 | 0.009 | 2.059 | 11.685 |
| | July | 1.276 | 0.324 | 0.156 | 0.325 | 0.279 | 0.012 | 2.373 | 14.058 |
| | August | 1.348 | 0.363 | 0.158 | 0.304 | 0.286 | 0.015 | 2.474 | 16.531 |
| | September | 1.146 | 0.307 | 0.123 | 0.264 | 0.273 | 0.014 | 2.127 | 18.658 |
| | October | 1.071 | 0.259 | 0.106 | 0.253 | 0.281 | 0.015 | 1.986 | 20.644 |
| | November | 1.082 | 0.221 | 0.099 | 0.290 | 0.273 | 0.013 | 1.977 | 22.621 |
| | December | 1.249 | 0.225 | 0.171 | 0.363 | 0.287 | 0.011 | 2.307 | 24.929 |
| | Total | 13.213 | 2.998 | 1.544 | 3.838 | 3.203 | 0.133 | 24.929 | |
| 1984 | January | 1.271 | 0.223 | 0.169 | 0.341 | 0.317 | 0.011 | 2.331 | 2.331 |
| | February | 1.103 | 0.194 | 0.108 | 0.318 | 0.307 | 0.013 | 2.042 | 4.373 |
| | March | 1.151 | 0.213 | 0.115 | 0.345 | 0.295 | 0.015 | 2.134 | 6.507 |
| | April | 1.004 | 0.228 | .0.081 | 0.341 | 0.262 | 0.014 | 1.929 | 8.436 |
| | May | 1.045 | 0.274 | 0.090 | 0.362 | 0.279 | 0.014 | 2.064 | 10.500 |
| | June | 1.202 | 0.308 | 0.121 | 0.330 | 0.273 | 0.013 | 2.247 | 12.747 |
| | July | 1.274 | 0.361 | 0.111 | 0.323 | 0.305 | 0.013 | 2.387 | 15.135 |
| | August September | 1.338 1.140 | 0.362 0.301 | 0.137 0.083 | 0.307 0.254 | 0.319 | 0.016 0.015 | 2.478 2.108 | 17.613 19.721 |
| | October | 1.155 | 0.279 | 0.083 | 0.254 | 0.315 0.268 | 0.015 | 2.060 | 21.781 |
| | November | 1.144 | 0.253 | 0.100 | 0.264 | 0.265 | 0.016 | 2.043 | 23.824 |
| | December | 1.193 | 0.225 | 0.086 | 0.301 | 0.203 | 0.018 | 2.156 | 25.980 |
| | Total | 14.020 | 3.220 | 1.286 | 3.741 | 3.538 | 0.174 | 25.980 | 20.000 |
| | | | | | | | | | |
| 1985 | January | 1.343 | 0.233 | 0.132 | 0.318 | 0.391 | 0.018 | 2.434 | 2.434 |
| | February | 1.170 | 0.208 | 0.101 | 0.302 | 0.333 | 0.016 | 2.129 | 4.563 |
| | March | 1.154 | 0.213 | 0.077 | 0.288 | 0.335 | 0.018 | 2.086 | 6.649 |
| | April | 1.073 | 0.241 | 0.066 | 0.285 | 0.286 | 0.015 | 1.966 | 8.615 |
| | May | 1.150 | 0.244 | 0.075 | 0.301 | 0.310 | 0.016 | 2.096 | 10.712 |
| | June | 1.213 | 0.291 | 0.082 | 0.279 | 0.333 | 0.016 | 2.213 | 12.925 |
| | July | 1.356 | 0.347 | 0.000 | 0.207 | 0.380 | 0.018 | 2.448 | 15.374 |
| | August | 1.331 | 0.366 | 0.107 | 0.247 | 0.376 | 0.018 | 2.446 | 17.819 |
| | September October | 1.198 1.160 | 0.282 0.257 | 0.082 0.082 | 0.238 0.249 | 0.373 | 0.018 | 2.190 2.102 | 20.010 |
| | November | 1.146 | 0.237 | 0.082 | 0.249 | 0.337 0.326 | 0.017 0.021 | 2.102 | 22.111 |
| | | | | | | | | | 24.190 |
| | Year to Date | 13.295 | 2.920 | 0.970 | 3.043 | 3.779 | 0.190 | 24.198 | |

Includes supplemental gaseous fuels.

^{ancludes} suppremental gaseous rules. ²Includes petroleum products reported as "oil consumed in steam plants" through 1979 and "heavy oil" from 1980 forward, which are assumed to be residual fuel oil; petroleum products reported as "oil consumed in gas turbine and internal combustion engine plants" through 1979 and "light oil" from 1980 forward, which are assumed to be distillate fuel oil and kerosene; and petroleum coke. ³Includes net imports of electricity.

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Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.
Notes:

Geographic coverage is the 50 States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.

Additional Notes and Sources:

See the last four pages of this section.

Notes and Sources for the Consumption Section

1. Total Energy Consumed: Total energy consumed includes coal, natural gas (including supplemental gaseous fuels), petroleum products supplied, electric utility and industrial generation of hydroelectric power, net imports of electricity generated from hydroelectric power, electricity generated from nuclear power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric utilities.

2. End-Use Sectors: Energy use is assigned to the major end-use sectors according to the following guidelines as closely as possible:

- Residential and commercial sector—Energy consumed by private household establishments primarily for space heating, water heating, air conditioning, refriger-
- ation, cooking, and clothes drying; by nonmanufacturing business establishments, including motels, restaurants, wholesale businesses, retail stores, laundries, and other service enterprises; by health, social, and educational institutions; and by Federal, State, and local governments.
- Industrial sector-Energy consumed by manufacturing, construction, mining, agriculture, fishing, and forestry establishments.
- Transportation sector—Energy consumed to move people and commodities in both the public and private sectors, including military, railroad, vessel bunkering, and marine uses, as well as the pipeline transmission of natural gas.
- Electric utility sector—Energy consumed by privately-and publicly-owned establishments that generate electricity primarily for resale.

3. Conversion Factors: See the Conversion Factors section of this publication.

4. Coal: Coal is anthracite, bituminous coal, (including subbituminous coal), and lignite.

Sources:

- 1973 through September 1977: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Year*book and Minerals Industry Surveys.
- Electric Utilities—October 1977 forward: Energy Infor-mation Administration (EIA), EIA Form 759 (formerly FPC Form 4), "Monthly Power Plant Report."
- Other Industrial—October 1977 through December 1979: EIA, EIA Form 3, "Monthly Fuel Consumption Report Manufacturing Plants"; January 1980 forward: EIA, EIA Form 3, "Quarterly Fuel Consumption Report Manufacturing Plants" and EIA Form 6, "Coal Distri-bution Benort " bution Report.
- Coke Plants—October 1977 through December 1980:
 EIA, EIA Form 5/5A, "Coke and Coal Chemicals -Monthly/Annual"; January 1981 forward: EIA, EIA Form 5/5A, "Coke and Coal Chemicals Quarter-Form 5/5A, ly/Annual."
- Residential and Commercial—October 1977 through December 1979: EIA, EIA Form 2, "Monthly Coal Report, Retail Dealers and Upper Lake Docks"; January 1980 forward: EIA, EIA Form 6, "Coal Distribution Report."

5. Natural Gas: Natural gas consumption by end-use sector is based on data presented in the table titled "Natural Gas Consumption" in Part 4. For the Part 2 consumption section, lease and plant fuel consumption are added to the industrial sector deliveries and pipeline fuel represents the transportation sector's use of natural gas. Values in Btu are derived using the conversion factors provided in the Conversion Factors section of this publication.

Sources:

- 1973 through 1975: DOI, BOM, *Minerals Yearbook*, "Natural Gas" chapter. 1976 through 1978: EIA, *Energy Data Reports*, "Natu-ral Gas, Annual."
- 1979: EIA, Natural Gas Production and Consumption 1979.
- 1980 through 1984: EIA, Natural Gas Annual.
- 1985 forward: EIA, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers, and EIA computations.
- Electric utilities consumption-1973 through 1976: FPC Form 4, "Monthly Power Plant Report."
- 1977 through 1981: Federal Energy Regulatory Com-mission (FERC), FPC Form 4, "Monthly Power Plant Report.'
- 1982 forward: EIA, EIA Form 759, "Monthly Power Plant Report.'
- American Gas Association, "Monthly Gas Utility Statistical Report.'

6. Petroleum: Petroleum consumption by end-use is the sum of all individual petroleum products estimated to be consumed in each end-use sector. First, total consumption by product is determined. Petroleum consumption in this section of the *Monthly Energy Review* is the series called "petroleum products supplied" in Part 3.

Sources for petroleum products supplied by individual products are:

- 1973 through 1975: DOI, BOM, *Mineral Industry Surveys*, "Petroleum Statement, Annual."
 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual."
 1981 through 1984: EIA, *Petroleum Supply Annual*.
 1985 forward: EIA, *Petroleum Supply Monthly*.

Specific petroleum products' end-use allocation procedures follow:

- Aviation Gasoline-All product supplied is assigned to the transportation sector.
- · Asphalt-All product supplied is assigned to the industrial sector.

Distillate Fuel

- Electric Utility Sector, All Periods.
 - Monthly and annual consumption in 1973 through 1979 is assumed to be the amount of oil (minus small amounts of kerosene and kerosene-type jet small amounts of kerosene and kerosene-type jet fuel deliveries) reported as consumed in internal combustion and gas turbine engine plants. From January 1980, electric utility consumption of disti-late fuel is assumed to be the petroleum products reported as "light oil" (minus small amounts of kerosene deliveries through 1982) consumed at utilities.

Sources: 1973 through September 1977—FPC Form 4, "Monthly Power Plant Report;" October 1977 through 1981—FERC, FPC Form 4, "Monthly Power Plant Report;" 1982 forward—EIA, Form EIA-759, "Monthly Power Plant Report." Non-Electric Utility Sectors, Annual Estimates

Through 1983.

The aggregate non-electric utility use of distillate fuel is total distillate fuel supplied minus the electric utility consumption. The non-electric utility annual totals are allocated into the individual non-electric

Residential sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;

(Notes and Sources for the Consumption Section are continued on the next page.)

Notes and Sources for the Consumption Section (continued)

6. Petroleum (continued):

- Distillate Fuel (continued) Non-Electric Utility Sectors, Annual Estimates
 - Through 1983 (cont'd).
 Commercial sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;
 - Industrial sector deliveries for 1979 through 1983 are the sum of deliveries for industrial. farm, oil company, off-highway, diesel, and all other uses. Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares, and this estimated industrial portion is added to oil company, off-highway diesel, and all other uses; and
 - Transportation sector deliveries are the sum of deliveries for railroad, vessel bunkering, on-highway diesel, and military uses for all years.
 - Non-Electric Utility Sectors, Monthly Estimates Through 1983.
 - Residential and commercial sector monthly consumption is estimated by allocating the annual sector estimates to months in proportion to each month's share of the year's sales of No. 2 heating oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation from 1973 through 1980 and the American Petroleum Institute since January 1981.
 - The transportation sector highway use portion is allocated into the months in proportion to each month's share of the year's total sales for highway use as reported by the Federal Highway Administration's Table MF-25, "Private and Commercial Highway Use of Special Fuels by Months." The remaining transportation use of distillate fuel (i.e., for railroads, vessel bunkering, and military use) is evenly distributed over the months, adjusted for the number of days per month.
 - Industrial sector monthly estimates are made by subtracting the residential and commercial, transportation, and electric utility sector esti-mates from each month's total distillate fuel supplied.
 - Non-Electric Utility Sectors, 1984 Forward. Each month's non-electric utility consumption sub-total is disaggregated into the major end-use sectors in proportion to the shares each sector held of the non-electric utility subtotal in the same month in 1983.
- Jet Fuel---Through 1982, small amounts of kerosenetype jet fuel were consumed by the electric utility sector. Kerosene-type jet fuel deliveries to electric utilities as reported on the FERC-423 (formerly FPC-423) were used as estimates of this consumption. All remaining jet fuel (kerosene-type and naphtha-type) is consumed by the transportation sector.
- Kerosene-Total product supplied monthly is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" ("Deliver-Form EIA-172) as follows:
- Residential sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Deliveries for 1983 are used as estimates for 1984 forward. Prior to 1979, each year's deliveries cate-gory called "heating" is split into residential,

commercial, and industrial in proportion to the 1979 shares:

- Commercial sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Deliveries for 1983 are used as estimates for 1984 forward. Prior to 1979, each year's deliveries cate-gory called "heating" is split into residential, com-mercial, and industrial in proportion to the 1979 shares; and
- Industrial sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Deliv-eries for 1983 are used as estimates for 1984 forward. Prior to 1979, each year's deliveries cate-gory called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares, and this estimated industrial (including farm) portion is added to "all other uses."

- Liquefied Petroleum Gases (LPG)

 1973 through 1982: the annual shares of LPG's total consumption that are estimated to be con
 sumed by each end-use sector are applied to each month's total LPG consumption to create monthly end-use consumption estimates. The annual enduse shares are calculated in the following manner:
 - Sales of LPG to the residential and commercial sector are converted from thousand gallons per year to thousand barrels per year and are as-sumed to be the annual consumption of LPG by the sector:
 - The quantity of LPG sold each year that is consumed in internal combustion engines is allocated between the transportation and industrial sectors according to a 5-year moving average of the percentage of carburetors sold to each end-use category. The proportions range from 31 percent transportation and 69 percent industrial in 1973 to 52 percent transportation and 48 percent industrial in 1982.
 - LPG consumed annually by the industrial sector is estimated as the difference between LPG's is estimated as the difference between LPG's total supplied and the estimated consumption by the sum of the residential and commercial sector and the transportation sector. The indus-trial sector includes LPG used by chemical plants as raw materials or solvents and for use in the production of synthetic rubber; refinery fuel use; use as synthetic natural gas feedstock and use in secondary recovery projects; all farm and use in secondary recovery projects; all farm use; LPG sold to gas utility companies for distribution through the mains; and a portion of the use of LPG as an internal combustion engine fuel.

The source of the sales data is EIA's "Sales of Liquefied Petroleum Gases and Ethane" reports, based primarily on data collected by Form EIA-174.

- 1983 forward: Because the collection of data under Form EIA-174 was discontinued after data year 1982, the 1982 annual end-use shares based on the 1982 sales data are applied for all succeeding periods to estimate LPG end-use consumption.
- · Lubricants-Total product supplied is allocated to the industrial and transportation sectors for all months according to proportions developed from annual sales of lubricants to those two sectors from U.S. Depart-Industrial Reports, "Sales of Lubricating and Industrial Oils and Greases." The 1973 shares are applied to 1973 and 1974; the 1975 shares are applied to 1975 and 1976; and the 1977 shares are applied to 1977 forward.

(Notes and Sources for the Consumption Section are continued on the next page.)

Notes and Sources for the Consumption Section (continued)

6. Petroleum (continued):

- Motor Gasoline—Total product supplied monthly is allocated to the major end-use sectors in proportion to aggregations of annual sales categories formed from the U.S. Department of Transportation, Federal High-way Administration, *Highway Statistics*, Tables MF-21, MF-24, and MF-25, as follows: — Commercial sales are the sum of sales for public
 - non-highway use, miscellaneous use, and unclassified use
 - Industrial sales are the sum of sales for agriculture, construction, and industrial and commercial use as classified in the Highway Statistics; and
 - Transportation sales are the sum of sales for highway use (minus the sales of special fuels, which are primarily diesel fuel and are accounted for in the transportation sector of distillate fuel) and sales for marine use.
- **Petroleum Coke**—The portion consumed by the electric utility sector is from EIA Form 759, "Monthly Power Plant Report" (formerly FPC Form 4). The remaining petroleum coke is assigned to the industrial sector.

Residual Fuel

Electric Utility Sector, All Periods.

Monthly and annual consumption 1973 through 1979 is assumed to be the amount of oil reported as consumed in steam-electric power plants. From January 1980, electric utility consumption of residu-January 1980, electric utility consumption of residu-al fuel is assumed to be the petroleum products reported as "heavy oil" consumed at utilities. Sources: 1973 through September 1977—FPC Form 4, "Monthly Power Plant Report;" October 1977 through 1981—FERC, FPC Form 4, "Monthly Power Plant Report;" 1982 forward—EIA, Form EIA-759, "Monthly Power Plant Report." Non-Electric Utility Sectors, Annual Estimates Through 1982

Through 1983.

The aggregate non-electric utility use of residual fuel is total residual fuel supplied minus the electric utility consumption. The non-electric utility annual totals are allocated into the individual non-electric utility sectors in proportion to the amount of residu-al fuel delivered to end users, grouped into sectors from EIA's "Deliveries of Fuel Oil and Kerosene"

- from EIA's "Deliveries of Fuel Oil and Kerosene". ("Deliveries") reports (based primarily on data collected by Form EIA-172) as follows: Commercial sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into commercial and industrial in proportion to the 1979 shares: 1979 shares;
- 1979 snares; Industrial sector deliveries for 1979 through 1983 are the sum of deliveries for industrial, oil company, and all other uses. Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into commercial and industrial in proportion to the 1979 shares; and this estimated industrial portion is added to and this estimated industrial portion is added to oil company and all other uses; and
- Transportation sector deliveries are the sum of deliveries for railroad, vessel bunkering, and military uses for all years. Non-Electric Utility Sectors, Monthly Estimates
- Through 1983.
 - Commercial sector monthly consumption is estimated by allocating the annual commercial sector estimates to months in proportion to each month's share of the year's sales of No. 2 heating oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation for 1973 through 1980 and the American Petroleum Institute since January 1981.

- Transportation sector monthly estimates are made by evenly distributing the annual sector estimate over the months, adjusted for the number of days per month.
- Industrial sector monthly estimates are made by Industrial sector monthly estimates are made by subtracting the commercial, transportation, and electric utility sector estimates from each month's total residual fuel supplied.
 Non-Electric Utility Sectors, 1984 Forward.
 Each month's non-electric utility consumption sub-tatal is discovered into the major ond use sec-tatal is discovered into the major ond use sec-
- total is disaggregated into the major end-use sectors in proportion to the shares each sector held of the non-electric utility subtotal in the same month in 1983.
- · Road Oil-All product supplied is assigned to the industrial sector.
- · All Other Petroleum Products—The product supplied of all remaining petroleum products is assigned to the industrial sector.

7. Hydroelectric Power: Includes electricity generated by hydroelectric power at electric utilities, small amounts in the industrial sector, and net imports of electricity, which are assumed to be generated by hydroelectric power and are included in the hydroelectricity in the electric utilities sector.

- Sources for electric utilities sector:
 - 1973 through 1976: FPC, Form 4, "Monthly Power Plant Report."
 - 1977 through 1981: FERC, FPC Form 4, "Monthly Power Plant Report."
 - 1982 forward: EIA, EIA Form 759, "Monthly Power Plant Report."

- Sources for industrial sector: 1973 through 1978: FPC Forms 4 and 12-C. 1979: FPC Form 4 and EIA estimates.
- 1980 forward: EIA estimates.

Note: For 1977 forward, monthly data are not available from above sources and were estimated by seasonalizing the annual numbers in proportion to each month's hydroelectricity generation in the electric utility sector. Note for imports and exports of electricity:

Monthly electricity imports and exports of electricity: Monthly electricity imports and exports estimates for 1982 forward were revised in the May 1984 *Monthly Energy Review.* The revisions do not cause discontinu-ity in the annual data series: the data estimates ity in the annual data series: the data continue to come from the same source. The monthly data series, how-January 1982 forward are now available from the same source as the annual data. Estimates for monthly values prior to 1982, published in previous issues, were developed by converting the annual value to a daily rate and multiplying by the number of days in the month. Accordingly, month-to-month analyses are not comparable when taken across the transition date of January 1982. Monthly analyses on either side of that date will be comparable. There is no known bias in either the annual data or the monthly data since January 1982.

- Sources for imports and exports of electricity:
 1973 through 1980: DOE, Economic Regulatory Administration, "Report on Electric Energy Exchanges with Canada and Mexico."
- 1981: DOE, Office of Energy Emergency Operations, "Report on Electric Energy Exchanges with Canada and Mexico for Calendar Year 1981," April 1982 (revised June 1982).
- 1982 through 1982; DOE, Economic Regulatory Admin-istration, ERA-781, "Annual Report of International Electric Import/Export Data."
- 1985 forward: EIA estimates.

(Notes and Sources for the Consumption Section are continued on the next page.)

Notes and Sources for the Consumption Section (continued)

8. Nuclear Electric Power and Geothermal, Wood, Waste, Wind, Photovoltaic, and Solar Thermal Energy Sources Connected to Electric Utility Distribution Systems.

Sources:

- 1973 through 1976: FPC, Form 4, "Monthly Power Plant Report."
- 1977 through 1981: FERC, FPC Form 4, "Monthly Power Plant Report."
- 1982 forward: EIA, EIA Form 759, "Monthly Power Plant Report.'

9. Net Imports of Coal Coke: Net imports means imports minus exports, and the parentheses indicate that exports are greater than imports.

Sources:

- 1973 through 1975: DOI, BOM, *Minerals Yearbook,* "Coke and Coal Chemicals," chapter.
- 1976 through 1980: EIA, Energy Data Report, "Coke and Coal Chemicals," annual.
- 1981: EIA, Energy Data Report, "Coke Plant Report," quarterly.
- 1982 forward: EIA, Quarterly Coal Report.

10. Electricity: Sales of electricity represent consumption. From the sources cited below the following electricity sales categories are available: residential, commercial, industrial, and other. For the end-use estimates in this section, the "other" category (which is primarily sales for use in government buildings) is added to the commercial sector except for approximately 4 percent, which represents the transportation sector use of electricity, primarily by railroads and railways. Sales of electricity are converted into Btu at the rate of 3,412 Btu per kilowatthour.

Sources of sales data:

- 1973 through 1976: FPC, Form 5, "Monthly Statement of Electric Operating Revenue and Income.
- 1977 through February 1980: EIA, FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income.
- March 1980 through December 1982: EIA, FERC Form 5, "Electric Utility Company Monthly Statement." January 1983 forward: EIA, EIA Form 826, "Electric Utility Company Monthly Statement."

11. Electrical System Energy Losses: Electrical system energy losses are calculated as the difference between total energy input at electric utilities and the total energy content of electricity sold to end-use consumers. Most of these losses occur at steam-electric power plants (conventional and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. This loss is a thermodynamically necessary feature of the steam-electric cycle. Part of the energy input to output losses are a result of imputing fossil energy equivalent inputs for hydroelectric and other energy sources, since there is no generally accepted practice for measuring these thermal conversion rates. In addition to conversion losses, other losses include rates. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to end-use consumers (also called "line-losses"), and unaccounted for electricity. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, approximately 67 percent of, total energy input is lost in conversion of electricity experimental. E percent conversion; of electricity generated, approximately 5 percent is lost in plant use and 9 percent in transmission and distribution. Calculated electrical system energy losses may be less than actual losses, because primary consumption does not include the energy equivalent of utility purchases of electricity from non-electric utilities and from Canada and Mexico, although they are included in electricity sales.

Domestic crude oil production during January 1986 was estimated to be 8.9 million barrels per day, 0.1 percent above both the December 1985 rate and the rate in January 1985.

Total petroleum imports averaged 5.2 million barrels per day in January 1986, 8.2 percent less than the December 1985 rate but 19.3 percent more than the January 1985 rate.

In January 1986, 16.4 million barrels per day of petroleum products were supplied for domestic use, 0.6 percent below the level in December 1985 but 1.9 percent above the level of the previous January. Motor gasoline accounted for 40.0 percent of the total; distillate fuel oil, 21.0 percent; and residual fuel oil, 8.1 percent.

Motor gasoline supplied during January 1986 averaged 6.6 million barrels per day, 2.7 percent below the rate in December 1985 but 3.7 percent above the rate of the previous January. Stocks of motor gasoline totaled 238 million barrels at the end of January 1986, 15 million barrels above the level at the end of December 1985 and 4 million barrels above the stocks level 1 year earlier.

In January 1986, 3.5 million barrels of distillate fuel oil were supplied per day, 6.8 percent higher than the December 1985 rate but 0.2 percent lower than the January 1985 rate. Distillate fuel oil ending stocks for January 1986 were 138 million barrels, 6 million barrels lower than the stocks level in the previous month and 4 million barrels lower than the January 1985 ending stocks level.

Residual fuel oil supplied in January 1986 averaged 1.3 million barrels per day, 6.3 percent lower than in December 1985 and 10.4 percent lower than the January 1985 rate. Residual fuel oil stocks measured 47 million barrels at the end of January 1986, 4 million barrels lower than the level in the previous month, and the same stocks level as 1 year earlier.

^{*}Estimates for the most current month are based on Energy Information Administration (EIA) weekly data (except crude production) and will be revised to conform with data from the EIA Petroleum Reporting System as available. For the most recent month, crude production is an EIA estimate based on historical and provisional data through October 1985. The total import data above include imports into the Strategic Petroleum Reserve.

Crude Oil¹ and Petroleum Products Overview

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| | | Fie | eld Product | tion | Stock | Withdrawal ² | | Ending Stocks ³ |
|------|----------------------|------------------------|-----------------------|---------------------------------|---------------------------|-------------------------|-----------------------------------|--|
| | | Total Domestic⁴ | Crude Oil | Natural Gas Plant Liquids | Crude Oil ^s | Petroleum Products | Petroleum Products Supplied | Crude Oil ^s and Petroleum Products |
| | | | | Thousand | barrels per d | ay | | Million barrels |
| 1973 | Average | 10,975 | 9,208 | 1,738 | 11 | -146 | 17,308 | 1,008 |
| 1974 | Average | 10,498 | 8,774 | 1,688 | -62 | -117 | 16,653 | °1,074 |
| 1975 | Average | 10,045 | 8,375 | 1,633 | °-17 | °-145 | 16,322 | 1,133 |
| 1976 | Average | 9,774 | 8,132 | 1,603 | -39 | 96 | 17,461 | 1,112 |
| 1977 | Average | 9,913 | 8,245 | 1,618 | -170 | -378 | 18,431 | 1,312 |
| 1978 | Average | 10,328 | 8,707 | 1,567 | -78 | 172 | 18,847 | 1,278 |
| 1979 | Average | 10,179 | 8,552 | 1,584 | -148 | -25 | 18,513 | 1,341 |
| 1980 | Average | 10,214 | 8,597 | 1,573 | -98 | -42 | 17,056 | *1,392 |
| 1981 | Average | 10,230 | 8,572 | 1,609 | 8-290 | *1 30 | 16,058 | 1,484 |
| 1982 | Average | 10,252 | 8,649 | 1,550 | -136 | 283 | 15,296 | °1,430 |
| 1983 | January | 10,331 | 8,697 | 1,580 | -499 | °772 | 14,722 | 1,452 |
| | February | 10,388 | 8,758 | 1,575 | -320 | 1,113 | 14,792 | 1,430 |
| | March | 10,279 | 8,700 | 1,541 | 83 | 1,810 | 15,541 | 1,372 |
| | April | 10,322 | 8,776 | 1,506 | -402 | 308 | 14,692 | 1,374 |
| | May | 10,190 | 8,631 | 1,493 | -15 | -602 | 14,505 | 1,394 |
| | June | 10,261 | 8,667 | 1,523 | -122 | -276 | 15,289 | 1,405 |
| | July | 10,228 | 8,636 | 1,539 | 233 | -909 | 15,019 | 1,426 |
| | August | 10,284 | 8,679 | 1,562 | -796 | -271 | 15,480 | 1,460 |
| | September | 10,447 | 8,784 | 1,602 | -239 | -621 | 15,506 | 1,485 |
| | October | 10,434 | 8,771 | 1,604 | -274 | -442 | 14,962 | 1,508 |
| | November December | 10,461 | 8,770 | 1,641 | 114 | -182 | 15,500 | 1,510 |
| | Average | 9,983 10,299 | 8,397 8,688 | 1,544 1,559 | -329 -214 | 2,133 234 | 16,726 | 1,454 |
| | - | - | - | | | | 15,231 | |
| 1984 | January | 10,477 | 8,868 | 1,572 | -328 | 1,115 | 16,801 | 1,429 |
| | February | 10,565 | 8,874 | 1,635 | 197 | -1,374 | 15,437 | 1,463 |
| | March April | 10,319 10,531 | 8,672 8,862 | 1,599 | -25 | 641 | 16,050 | 1,444 |
| | May | 10,623 | 8,955 | 1,619 1,614 | -476 | -106 | 15,568 | 1,462 |
| | June | 10,507 | 8,852 | 1,613 | -677 -104 | -434 -109 | 15,620 15,709 | 1,496 1,503 |
| | July | 10,587 | 8,885 | 1,634 | -169 | -169 | 15,498 | 1,513 |
| | August | 10,478 | 8,809 | 1,637 | 250 | 252 | 16,116 | 1,498 |
| | September | 10,692 | 8,993 | 1,660 | 260 | -769 | 15,247 | 1,513 |
| | October | 10,608 | 8,906 | 1,649 | -759 | -246 | 15,616 | 1,544 |
| | November | 10,689 | 8,979 | 1,678 | -236 | -177 | 15,627 | 1,556 |
| | December | 10,578 | 8,897 | 1,649 | -290 | 293 | 15,375 | 1,556 |
| | Average | 10,554 | 8,879 | 1,630 | -199 | -81 | 15,726 | |
| 1985 | January | 10,612 | 8,929 | 1,642 | 18 | 1,443 | 16,142 | 1,510 |
| | February | 10,598 | 8,928 | 1,629 | 281 | 1,232 | 15,975 | 1,467 |
| | March | 10,588 | 8,927 | 1,615 | -165 | 426 | 15,321 | 1,459 |
| | April | 10,481 | 8,842 | 1,600 | -534 | 46 | 15,345 | 1,474 |
| | May | 10,619 | 8,969 | 1,607 | -696 | -386 | 15,460 | 1,508 |
| | June | 10,622 | 8,965 | 1,614 | 296 | -378 | 15,551 | 1,510 |
| | July | 10,537 | 8,904 | 1,591 | 300 | -449 | 15,517 | 1,515 |
| | August | 10,597 | 8,895 | 1,612 | 170 | 542 | 16,039 | 1,493 |
| | September | 10,520 | 8,874 | 1,584 | -33 | -211 | 15,115 | 1,500 |
| | October | 10,610 | 8,943 | 1,605 | 71 | 170 | 15,923 | 1,492 |
| | November | 10,694 | 8,932 | 1,681 | -246 | -750 | 15,411 D16 541 | 1,522 |
| | December | 10,683 | 8,930 | 1,680 | R-31 -49 | R219 | R16,541 | R1,516 |
| 4000 | Average | 10,597 | 8,920 | 1,622 | | 155 | 15,697 | |
| 1986 | January† | NA | 8,942 | NA | -72 | 349 | 16,443 | 1,517 |

Includes lease condensate.

Includes lease condensate.
A negative number indicates an increase in stocks and a positive number indicates a decrease.
Stocks are totals as of end of period.
Includes crude oil, natural gas plant liquids, other hydrocarbons, and alcohol.
Includes stocks located in the Strategic Petroleum Reserve.
Includes crude oil for storage in the Strategic Petroleum Reserve.
Includes crude oil for storage in the Strategic Petroleum Reserve.
Includes crude oil for storage in the Strategic Petroleum Reserve.
Includes crude oil for storage in the Strategic Petroleum Reserve.
In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stocks withdrawal calculations. See Note 5 on the last page of this section.
Footnotes continued on following page.

Monthly Energy Review November 1985 Energy Information Administration

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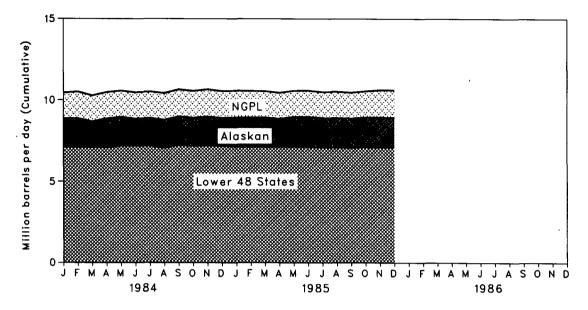
Crude Oil¹ and Petroleum Products Overview (continued)

| | | | Imports | | • · | Exports | | |
|------|---------------------|----------------|---------------------------|-----------------------|----------------|--------------|-----------------------|-----------------------------|
| | | Total | Crude Oil ^e | Petroleum Products | Total | Crude Oil | Petroleum Products | Net Imports ⁷ |
| | | | | Th | ousand barrels | s per day | | |
| 1973 | Average | 6,256 | 3,244 | 3,012 | 231 | 2 | 229 | 6,025 |
| 1974 | Average | 6,112 | 3,477 | 2,635 | 221 | 3 | 218 | 5,892 |
| 1975 | Average | 6,056 | 4,105 | 1,951 | 209 | 6 | 204 | 5,846 |
| 1976 | Average | 7,313 | 5,287 | 2,026 | 223 | 8 | 215 | 7,090 |
| 1977 | Average | 8,807 | 6,615 | 2,193 | 243 | 50 | 193 | 8,565 |
| 1978 | Average | 8,363 | 6,356 | 2,008 | 362 | 158 | 204 | 8,002 |
| 1979 | Average | 8,456 | 6,519 | 1,937 | 471 | 235 | 236 | 7,985 |
| 1980 | Average | 6,909 | 5,263 | 1,646 | 544 | 287 | 258 | 6,365 |
| 1981 | Average | 5,996 | 4,396 | 1,599 | 595 | 228 | 367 | 5,401 |
| 1982 | Average | 5,113 | 3,488 | 1,625 | 815 | 236 | 579 | 4,298 |
| | • | | | | | | | |
| 1983 | January | 4,438 | 2,964 | 1,474 1,459 | 973 865 | 117 262 | 856 603 | 3,464 2,861 |
| | February March | 3,726 3,690 | 2,267 2,290 | 1,400 | 801 | 174 | 627 | 2,889 |
| | April | 4,727 | 3,118 | 1,609 | 809 | 88 | 721 | 3,918 |
| | May | 5,089 | 3,360 | 1,729 | 848 | 280 | 568 | 4,241 |
| | June | 5,326 | 3,577 | 1,749 | 774 | 144 | 630 | 4,552 |
| | July | 5,741 | 3,871 | 1,870 | 571 | 145 | 426 | 5,170 |
| | August | 6,159 | 4,227 | 1,933 | 663 | 172 | 491 | 5,496 |
| | September | 6,129 | 4,210 | 1,919 | 684 | 177 | 507 | 5,445 |
| | October | 5,258 | 3,446 | 1,812 | 576 | 140 | 436 | 4,682 |
| | November | 5,210 | 3,337 | 1,873 | 679 | 186 | 494 | 4,531 |
| | December | 5,033 | 3,213 | 1,820 | 639 | 95 | 544 | 4,394 |
| | Average | 5,051 | 3,329 | 1,722 | 739 | 164 | 575 | 4,312 |
| 1984 | January | 5,430 | 3,055 | 2,375 | 575 | 153 | 422 | 4,855 |
| | February | 5,693 | 2,950 | 2,743 | 582 | 185 | 397 | 5,111 |
| | March | 5,301 | 3,470 | 1,832 | 840 | 236 | 605 | 4,461 |
| | April | 5,372 | 3,417 | 1,955 | 655 | 172 | 483 | 4,717 |
| | May | 5,979 | 3,942 | 2,036 | 766 | 219 | 548 | 5,212 |
| | June | 5,482 | 3,546 | 1,936 | 864 | 222 | 642 429 | 4,618 4,871 |
| | July | 5,407 5,044 | 3,646 3,248 | 1,761 1,796 | 536 732 | 108 190 | 429 542 | 4,871 |
| | August September | 5,252 | 3,342 | 1,909 | 664 | 162 | 502 | 4,588 |
| | October | 5,779 | 3,342 | 2,028 | 599 | 141 | 458 | 5,179 |
| | November | 5,587 | 3,583 | 2,004 | 854 | 202 | 652 | 4,733 |
| | December | 4,933 | 3,136 | 1,796 | 986 | 185 | 801 | 3,947 |
| | Average | 5,437 | 3,426 | 2,011 | 722 | 181 | 541 | 4,715 |
| 1985 | January | 4,376 | 2,700 | 1,676 | 792 | 144 | 647 | 3,584 |
| | February | 3,921 | 2,126 | 1,795 | 857 | 221 | 636 | 3,064 |
| | March | 4,689 | 2,808 | 1,881 | 694 | 189 | 505 | 3,996 |
| | April | 5,252 | 3,401 | 1,851 | 764 | 236 | 528 | 4,488 |
| | May | 5,718 | 3,724 | 1,994 | 705 | 250 | 455 | 5,012 |
| | June | 4,877 | 3,175 | · 1,702 | 692 | 226 | 467 | 4,185 |
| | July | 4,921 | 3,189 | 1,732 | 675 | 154 | 521 | 4,246 |
| | August | 4,682 | 3,110 | 1,572 | 749 | 241 | 508 | 3,934 |
| | September | 4,977 | 3,213 | 1,764 | 806 | 188 | 618 | 4,171 |
| | October | 5,153 | 3,325 | 1,828 | 690 | 123 | 567 | 4,463 |
| | November | 6,216 | 4,105 | 2,111 | 1,036 | 286 | 750 | 5,180 |
| | December | R5,689 | R3,640 | R2,049 | 925 | 197 | 728 | 4,763 |
| | Average | 5,045 | 3,216 | 1,830 | 781 | 204 | 577 | 4,264 |
| 1986 | January† | 5,221 | 3,315 | 1,906 | NA | NA | NA | NA |

Footnotes continued. †Italics denote estimates based upon preliminary data. R=Revised data. NA=Not available. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Sources: • See the last page of this section.

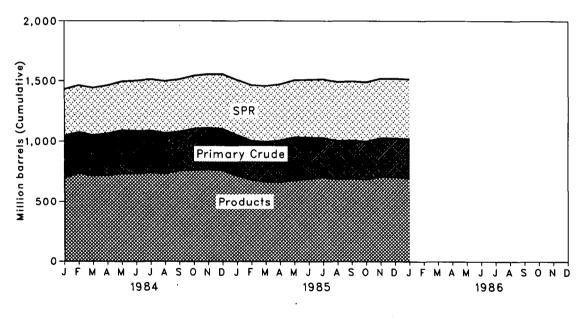
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Overview



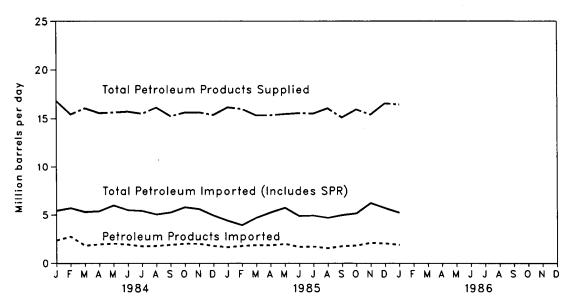
Production of Crude Oil and Natural Gas Plant Liquids

Ending Stocks



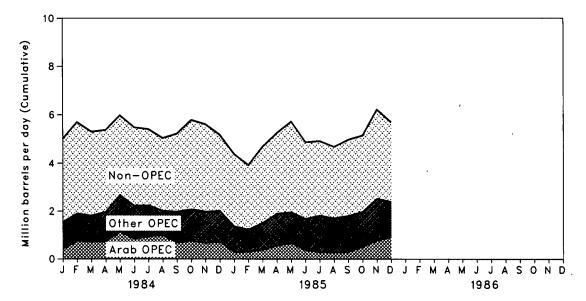
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Petroleum Imports by Source



4

Crude Oil¹ Supply and Disposition

| 1973 1974 1975 1976 1977 1978 | Average Average Average Average Average | Field Pro Total Domestic 9,208 8,774 | oduction Alaskan | Total | Imports | | Stock W | ithdrawal ³ | Unaccounted |
|--|---|--|---------------------|----------------|------------|-----------------|------------------|------------------------|------------------|
| 1974 1975 1976 1977 | Average Average Average | Domestic 9,208 | Alaskan | Total | | | | | |
| 1974 1975 1976 1977 | Average Average Average | | | | SPR⁴ | Other | SPR ⁴ | Other | for Crude Oil |
| 1974 1975 1976 1977 | Average Average Average | | | | Thousand | d barrels per d | lay | | |
| 1975 1976 1977 | Average Average Average | | 198 | 3,244 | | 3,244 | | 11 | 3 |
| 1976 1977 | Average Average | | 193 | 3,477 | | 3,477 | | -62 | -25 |
| 1976 1977 | Average | 8,375 | 191 | 4,105 | | 4,105 | | -17 | 17 |
| 1977 | - | 8,132 | 173 | 5,287 | | 5,287 | | -39 | 77 |
| | | 8,245 | 464 | 6,615 | 21 | 6,594 | -20 | -150 | -6 |
| 13/0 | Average | 8,707 | 1,229 | 6,356 | 162 | 6,195 | -163 | 84 | -57 |
| 1979 | | 8,552 | 1,401 | 6,519 | 67 | 6,452 | -103 | -81 | -57 |
| | Average | , | • | • | | | | | |
| 1980 | Average | 8,597 | 1,617 | 5,263 | 44 | 5,219 | -45 | -52 | 34 |
| 1981 | Average | 8,572 | 1,609 | 4,396 | 256 | 4,141 | -336 | ⁶ 46 | 83 |
| 1982 | Average | 8,649 | 1,696 | 3,488 | 165 | 3,323 | -174 | 38 | 71 |
| 1983 | January | 8,697 | 1,732 | 2,964 | 219 | 2,746 | -219 | °-280 | 170 |
| | February | 8,758 | 1,717 | 2,267 | 197 | 2,070 | -197 | -123 | 262 |
| | March | 8,700 | 1,732 | 2,290 | 201 | 2,089 | -184 | 267 | 31 |
| | April | 8,776 | 1,721 | 3,118 | 205 | 2,913 | -197 | -205 | 98 |
| | May | 8,631 | 1,662 | 3,360 | 289 | 3,071 | -293 | 278 | 169 |
| | June | 8,667 | 1,687 | 3,577 | 190 | 3,387 | -188 | 66 | 370 |
| | July | 8,636 | 1,715 | 3,871 | 274 | 3,597 | -264 | 497 | -167 |
| | August | 8,679 | 1,697 | 4,227 | 350 | 3,876 | -358 | -438 | 281 |
| | September | 8,784 | 1,738 | 4,210 | 309 | 3,901 | -307 | 68 | -30 |
| | October | 8,771 | 1,733 | 3,446 | 202 | 3,244 | -201 | -73 | 44 |
| | November | 8,770 | 1,720 | 3,337 | 171 | 3,166 | -135 | 250 | 34 |
| | December | 8,397 | 1,711 | 3,213 | 193 | 3,020 | -252 | -78 | 117 |
| | Average | 8,688 | 1,714 | 3,329 | 234 | 3,096 | -234 | 20 | 114 |
| 1984 | January | 8,868 | 1,752 | 3,055 | 200 | 2,855 | -173 | -155 | 211 |
| | February | 8,874 | 1,749 | 2,950 | 85 | 2,866 | -96 | 293 | 386 |
| | March | 8,672 | 1,570 | 3,470 | 148 | 3,322 | -147 | 122 | 110 |
| | April | 8,862 | 1,770 | 3,417 | 170 | 3,248 | -170 | -307 | 325 |
| | May | 8,955 | 1,764 | 3,942 | 246 | 3,696 | -245 | -432 | 309 |
| | June | 8,852 | 1,659 1,695 | 3,546 | 309 329 | 3,237 3,317 | -309 -328 | 205 159 | 246 -164 |
| | July | 8,885 8,809 | 1,722 | 3,646 3,248 | 180 | 3,068 | -328 -179 | 429 | 293 |
| | August September | 8,993 | 1,761 | 3,342 | 53 | 3,289 | -53 | 314 | -94 |
| | October | 8,906 | 1,732 | 3,342 | 187 | 3,565 | -186 | -573 | 291 |
| | November | 8,979 | 1,781 | 3,583 | 219 | 3,364 | -207 | -29 | 47 |
| | December | 8,897 | 1,720 | 3,136 | 229 | 2,907 | -241 | -50 | 262 |
| | Average | 8,879 | 1,722 | 3,426 | 197 | 3,229 | -195 | -4 | 185 |
| 1985 | January . | 8,929 | 1,788 | 2,700 | 223 | 2,478 | -223 | 241 | 23 |
| | February | 8,928 | 1,787 | 2,126 | 98 | 2,028 | -97 | 378 | 346 |
| | March | 8,927 | 1,786 | 2,808 | 48 | 2,760 | -48 | -117 | 92 |
| | April | 8,842 | 1,699 | 3,401 | 108 | 3,293 | -111 | -423 | 411 |
| | May | 8,969 | 1,827 | 3,724 | 222 | 3,501 | -225 | -471 | 457 |
| | June | 8,965 | 1,828 | 3,175 | 155 | 3,020 | -155 | 451 | 202 |
| | July | 8,904 | 1,802 | 3,189 | 226 | 2,963 | -225 | 525 | 295 |
| | August | 8,895 | 1,801 | 3,110 | 116 | 2,995 | -116 | 286 | 195 |
| | September | 8,874 | 1,801 | 3,213 | 71 | 3,142 | -71 | 38 | 126 |
| | October | 8,943 | 1,822 | 3,325 | 20 | 3,305 | -20 | 91 | 48 |
| | November | 8,932 | 1,821 | 4,105 | 53 | 4,053 | -53 | -193 | -35 |
| | December | 8,930 | 1,821 | R3,640 | 74 | R3,565 | -60 | R28 | 298 |
| | Average | 8,920 | 1,799 | 3,216 | 118 | 3,098 | -117 | 68 | 204 |
| 1986 | January† | <i>8,942</i> | 1,822 | 3,315 | 58 | <i>3,257</i> | -41 | -31 | NA |

¹Includes lease condensate.
²Stocks are totals as of end of period.
³A negative number indicates an increase in stocks and a positive number indicates a decrease.
⁴Strategic Petroleum Reserve.
⁵Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.
⁶Stocks of Alaskan crude oil in transit were included beginning in January 1981. Stock withdrawals are calculated using new basis stock levels. See Notes 5 and 6 on the last page of this section.
Footnotes continued on following page.

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Crude Oil¹ Supply and Disposition (continued)

| | | Supply | | Dispos | sition | | E | nding Sto | cks² |
|------|----------------------|-------------------------|-----------------|--------------------|--------------|----------------------|------------|--------------|------------------|
| | | Crude Used Directly⁵ | Crude Losses | Refinery Inputs | Exports | Product Supplied⁵ | Total | SPR' | Other Primary |
| | | , | Thousan | d barrels per o | day | | | Million barr | els |
| 1973 | Average | -19 | 13 | 12,431 | 2 | | 242 | | |
| 1974 | Average | -15 | 13 | 12,431 | 3 | | 242 | | 242 265 |
| 1975 | Average | -17 | 13 | 12,442 | 6 | | 203 | | 205 |
| 1976 | Average | -18 | 15 | 13,416 | 8 | | 285 | | 285 |
| 1977 | Average | -14 | 16 | 14,602 | 50 | | 348 | 7 | 340 |
| 1978 | Average | -14 | 16 | 14,739 | 158 | | 376 | 67 | 309 |
| 1979 | Average | -13 | 16 | 14,648 | 235 | | 430 | 91 | 339 |
| 1980 | Average | -13 | 15 | 13,481 | 287 | | °466 | 108 | °358 |
| 1981 | Average | -58 | 5 | 12,470 | 228 | | 594 | 230 | 363 |
| 1982 | Average | -59 | 3 | 11,774 | 236 | | °644 | 294 | 350 |
| 1983 | January | NA | 2 | 11,143 | 117 | 71 | 660 | 301 | 360 |
| 1300 | February | NA | 3 | 10,633 | 262 | 71 | 669 | 306 | 363 |
| | March | NA | 2 | 10,859 | 174 | 70 | 667 | 312 | 355 |
| | April | NA | 2 | 11,433 | 88 | 68 | 679 | 318 | 361 |
| | Мау | NA | 1 | 11,800 | 280 | 63 | 679 | 327 | 353 |
| | June | NA | (s) | 12,284 | 144 | 64 | 683 | 332 | 351 |
| | July | NA | 2 | 12,360 | 145 | 65 | 676 | 341 | 335 |
| | August | NA NA | 1 1 | 12,152 | . 172 177 | 64 66 | 700 | 352 | 349 |
| | September October | NA | 1 | 12,482 11,782 | 140 | 63 | 708 716 | 361 367 | 347 349 |
| | November | NA | 2 | 12,004 | 186 | 64 | 713 | 371 | 349 |
| | December | NA | 1 | 11,234 | 95 | 67 | 723 | 379 | 344 |
| | Average | NA | 2 | 11,685 | 164 | 66 | | | |
| 1984 | January | NA | 1 | 11,587 | 153 | 64 | 733 | 384 | 349 |
| | February | NA | 1 | 12,157 | 185 | 65 | 727 | 387 | 340 |
| | March | NA | 2 | 11,926 | 236 | 62 | 728 | 392 | 336 |
| | April | NA | 1 | 11,891 | 172 | 64 | 742 | 397 | 346 |
| | May | NA | 2 | 12,247 | 219 | 62 | 763 | 404 | 359 |
| | June July | NA NA | 2 2 | 12,255 12,028 | 222 108 | 61 60 | 767 772 | 414 424 | 353 348 |
| | August | NA | 1 | 12,346 | 190 | 63 | 764 | 429 | 346 |
| | September | NA | 3 | 12,271 | 162 | 66 | 756 | 431 | 325 |
| | October | NA | 1 | 11,978 | 141 | 69 | 780 | 437 | 343 |
| | November | NA | (s) | 12,108 | 202 | 62 | 787 | 443 | 344 |
| | December | NA | (s) | 11,755 | 185 | 64 | 796 | 451 | 345 |
| | Average | NA | 2 | 12,044 | 181 | 64 | | | |
| 1985 | January | NA | 1 | 11,456 | 144 | 69 | 793 | 457 | 336 |
| | February | NA | 1 | 11,393 | 221 | 66 | 786 | 460 | 325 |
| | March | NA | 1 | 11,404 | 189 | 69 | 791 | 462 | 329 |
| | April May | NA NA | (s) 1 | 11,817 12,141 | 236 250 | 67 62 | 807 828 | 465 | 342 |
| | June | NA | 1 | 12,141 | 230 | 56 | 819 | 472 477 | 356 343 |
| | July | NA | 1 | 12,355 | 154 | 55 | 810 | 484 | 343 |
| | August | NA | (s) | 12,073 | 241 | 55 | 805 | 487 | 318 |
| | September | NA | (s) | 11,937 | 188 | 55 | 806 | 489 | 317 |
| | October | NA | (s) | 12,209 | 123 | 55 | 804 | 490 | 314 |
| | November | NA | 1 | 12,411 | 286 | 59 | 811 | 491 | 320 |
| | December | NA | 1 | R12,575 | 197 | 63 | R812 | 493 | R319 |
| | Average | NA | 1 | 12,025 | 204 | 61 | | | |
| 1986 | January† | NA | NA | 12,480 | NA | NÁ | 820 | 494 | 326 |

Footnotes continued. †Italics denote estimates based upon preliminary data. R=Revised data. NA=Not available. (s)=Less than 500 barrels per day. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. Sources: • See the last page of this section.

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Crude Oil and Petroleum Product Imports

Imports from OPEC Sources¹

Excludes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced in OPEC countries. Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.

Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar. Footnotes continued on following page.

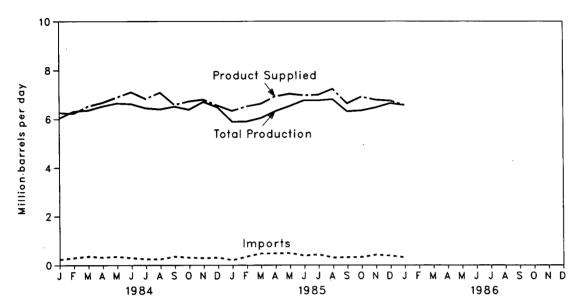
Monthly Energy Review November 1985 **Energy Information Administration**

Crude Oil and Petroleum Product Imports (continued)

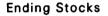
| | | | | | Imports | from Non | -OPEC Sou | Irces4 | | | | |
|------|--------------|------------|------------|------------|------------------------------|---------------------------|-------------------|----------------|-------------------|-----------------------|-----------------------|------------------|
| | | Bahamas | Canada | Mexico | Nether- lands Antilles | Trinidad and Tobago | United Kingdom | Puerto Rico | Virgin Islands | Other Non- OPEC | Total Non- OPEC | Total Imports |
| | | | | | | Thousar | nd barrels p | er day | | | | |
| 1973 | Average | 174 | 1,325 | 16 | 585 | 255 | 15 | 99 | 329 | 465 | 3,263 | 6,256 |
| 1974 | Average | 164 | 1,070 | 8 | 511 | 251 | 8 | . 90 | 391 | 340 | 2,832 | 6,112 |
| 1975 | Average | 152 | 846 | 71 | 332 | 242 | 14 | 90 | 406 | 300 | 2,454 | 6,056 |
| 1976 | Average | 118 | 599 | 87 | 275 | 274 | 31 | 88 | 422 | 353 | 2,247 | 7,313 |
| 1977 | Average | 171 | 517 | 179 | 211 | 289 | 126 | 105 | 466 | 550 | 2,614 | 8,807 |
| 1978 | Average | 160 | 467 | 318 | 229 | 253 | 180 | 94 | 429 | 484 | 2,613 | 8,363 |
| 1979 | Average | 147 | 538 | 439 | 231 | 190 | 202 | 92 | 431 | 548 | 2,819 | 8,456 |
| 1980 | Average | 78 | 455 | 533 | 225 | 176 | 176 | 88 | 388 | 491 | 2,609 | 6,909 |
| 1981 | Average | 74 | 447 | 522 | 197 | 133 | 375 | 62 | 327 | 534 | 2,672 | 5,996 |
| 1982 | Average | 65 | 482 | 685 | 175 | 112 | 456 | 50 | 316 | 627 | 2,968 | 5,113 |
| 1983 | January | 68 | 534 | 849 | 228 | 73 | 314 | 40 | 299 | 621 | 3,026 | 4,438 |
| | February | 92 | 586 | 722 | 183 | 81 | 193 | 50 | 192 | 558 | 2,658 | 3,726 |
| | March | 86 | 488 | 775 | 187 | 78 | 240 | 43 | 162 | 565 | 2,624 | 3,690 |
| | April | 174 | 454 | 981 | 216 | 85 | 421 | 20 | 183 | 759 | 3,295 | 4,727 |
| | May | 135 137 | 518 586 | 944 | 153 173 | 108 | 484 440 | 42 | 235 262 | 699 757 | 3,318 | 5,089 |
| | June July | 69 | 634 | 830 849 | 198 | 120 107 | 440 369 | 48 37 | 262 364 | 757 864 | 3,353 | 5,326 |
| | August | 144 | 542 | 906 | 198 | 90 | 461 | 40 | 313 | 738 | 3,490 3,431 | 5,741 6,159 |
| | September | 148 | 533 | 849 | 261 | 82 | 475 | 33 | 307 | 845 | 3,534 | 6,129 |
| | October | 171 | 532 | 771 | 172 | 106 | 414 | 48 | 357 | 580 | 3,151 | 5,258 |
| | November | 148 | 556 | 726 | 144 | 110 | 334 | 55 | 427 | 801 | 3,300 | 5,210 |
| | December | 127 | 604 | 710 | 153 | 113 | 429 | 22 | 278 | 628 | 3,063 | 5,033 |
| | Average | 125 | 547 | 826 | 189 | 96 | 382 | 40 | 282 | 701 | 3,189 | 5,051 |
| 1984 | January | 159 | 635 | 710 | 279 | 54 | 382 | 53 | 390 | 804 | 3,465 | 5,430 |
| | February | 156 | 620 | 748 | 289 | 77 | 344 | 58 | 418 | 1,087 | 3,797 | 5,693 |
| | March | 90 | 694 | 716 | 169 | 93 | 434 | 34 | 248 | 1,013 | 3,490 | 5,301 |
| | April | 95 | 705 | 869 | 207 | 91 | 282 | 37 | 257 | 869 | 3,410 | 5,372 |
| | May June | 31 52 | 722 506 | 676 754 | 192 234 | 57 104 | 429 345 | 38 53 | 336 268 | 819 939 | 3,302 | 5,979 |
| | July | 14 | 577 | 740 | 234 99 | 120 | 345 | 27 | 200 | 939 | 3,255 3,166 | 5,482 5,407 |
| | August | 57 | 547 | 640 | 206 | 98 | 388 | 34 | 236 | 829 | 3,035 | 5,407 |
| | September | 98 | 550 | 780 | 133 | 103 | 490 | 38 | 250 | 808 | 3,249 | 5,252 |
| | October | 151 | 682 | 827 | 112 | 122 | 486 | 37 | 321 | 979 | 3,717 | 5,779 |
| | November | 88 | 640 | 841 | 181 | 115 | 544 | 44 | 283 | 897 | 3,633 | 5,587 |
| | December | 75 | 675 | 686 | 161 | 98 | 337 | 46 | 235 | 855 | 3,168 | 4,933 |
| | Average | 88 | 630 | 748 | 188 | 94 | 402 | 42 | 294 | 902 | 3,388 | 5,437 |
| 1985 | January | 90 | 610 | 765 | 125 | 113 | 345 | 32 | 235 | 695 | 3,009 | 4,376 |
| | February | 37 | 730 | 649 | 39 | 119 | 150 | 50 | 213 | 702 | 2,688 | 3,921 |
| | March | 32 | 900 | 921 | 52 | 137 | 141 | 29 | 235 | 730 | 3,177 | 4,689 |
| | April | 0 66 | 880 796 | 950 959 | 18 | 107 | 214 | 42 | 205 | 937 | 3,353 | 5,252 |
| | May June | 21 | 796 716 | 959 712 | 22 30 | 126 92 | 419 481 | 37 23 | 252 271 | 1,088 848 | 3,765 3,195 | 5,718 |
| | July | 36 | 610 | 813 | 26 | 133 | 323 | 23 14 | 236 | 912 | 3,195 | 4,877 4,921 |
| | August | 19 | 679 | 859 | 18 | 121 | 336 | 28 | 230 | 673 | 2,975 | 4,921 4,682 |
| | September | 30 | 807 | 852 | 29 | 134 | 311 | 26 | 173 | 811 | 3,173 | 4,977 |
| | October | 14 | 836 | 744 | 5 | 92 | 372 | 21 | 260 | 834 | 3,180 | 5,153 |
| | November | 11 | 757 | 899 | 30 | 100 | 387 | 26 | 325 | 1,159 | 3,695 | 6,216 |
| | December | 45 | 893 | 644 | 29 | 96 | 273 | 12 | 314 | 994 | 3,300 | 5,689 |
| | Average | 34 | 768 | 815 | 35 | 114 | 314 | 28 | 247 | 866 | 3,221 | 5,045 |

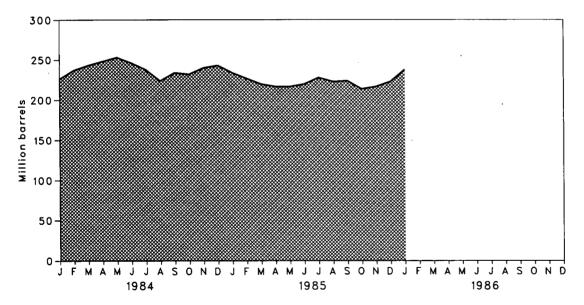
Footnotes continued. Includes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced in OPEC countries. (s)=Less than 500 barrels per day. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. • Beginning in October 1977, Strategic Petroleum Reserve imports are included. Sources: • See the last page of this section.

Finished Motor Gasoline Supply and Disposition



Products Supplied, Total Production, and Imports





Finished Motor Gasoline Supply and Disposition

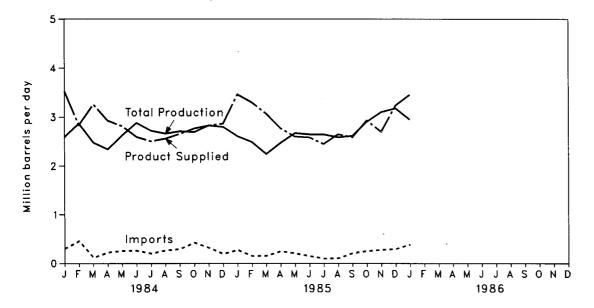
| | | | Supply | | Disposition | | | | Ending Stocks ¹ | |
|------|----------------------|----------------|----------------------|--------------------------------------|--------------|----------------|-----------------------|---------------------|--------------------------------|-------------------|
| | | Total | | Stock | | P | roduct Suppl | ied | Total | Finished |
| | | Production | Imports ² | Withdrawal ² ³ | Exports | Total | Unleaded* | Unleaded Percent | Motor Gasoline ^s | Motor Gasoline |
| | | | | Thousand | d barrels pe | er day | | of Total | Million | barrels |
| 1973 | Average | 6,535 | 134 | 9 | 4 | 6,674 | | | 209 | |
| 1974 | Average | 6,360 | 204 | -24 | 2 | 6,537 | | | °218 | |
| 1975 | Average | 6,520 | 184 | 6-28 | 2 | 6,675 | | | 235 | |
| 1976 | Average | 6,841 | 131 | 10 | 3 | 6,978 | | | 231 | |
| 1977 | Average | 7,033 | 217 | -72 | 2 | 7,177 | 1,976 | 27.5 | 258 | |
| 1978 | Average | 7,169 | 190 | 54 | 1 | 7,412 | 2,521 | 34.0 | 238 | |
| 1979 | Average | 6,852 | 181 | 2 | (s) | 7,034 | 2,798 | 39.8 | 237 | |
| 1980 | Average | 6,506 | 140 | -66 | 1 | 6,579 | 3,067 | 46.6 | °261 | |
| 1981 | Average ⁷ | 6,405 | 157 | °28 | 2 | 6,588 | 3,264 | 49.5 | 253 | |
| 1982 | Average | 6,338 | 197 | 25 | 20 | 6,539 | 3,409 | 52.1 | °235 | |
| 1983 | January | 6,065 | 153 | ⁰-167 | (s) | 6,051 | 3,364 | 55.6 | 250 | 207 |
| 1000 | February | 5,848 | 128 | 24 | (S) | 6,000 | 3,264 | 54.4 | 250 | 207 |
| | March | 5,906 | 186 | 768 | 23 | 6,836 | 3,622 | 53.0 | 223 | 183 |
| | April | 6,201 | 255 | -3 | 1 | 6,452 | 3,492 | 54.1 | 221 | 183 |
| | May | 6,397 | 305 | -83 | 1 | 6,617 | 3,558 | 53.8 | 223 | 185 |
| | June | 6,655 | 277 | 84 | 22 | 6,994 | 3,792 | 54.2 | 223 | 183 |
| | July | 6,707 | 302 | -225 | 18 | 6,765 | 3,746 | 55.4 | 231 | 190 |
| | August | 6,537 | 250 | 161 | 13 | 6,936 | 3,836 | 55.3 | 226 | 185 |
| | September | 6,611 | 279 | -149 | 14 | 6,727 | 3,691 | 54.9 | 229 | 189 |
| | October | 6,188 | 330 | 72 | 2 | 6,588 | 3,711 | 56.3 | 227 | 187 |
| | November December | 6,634 6,308 | 269 224 | -298 339 | 2 25 | 6,603 6,846 | 3,692 3,966 | 55.9 57.9 | 236 | 196 |
| | Average | 6,308 6,340 | 224 | 45 | 25 10 | 6,640 6,622 | 3,900 3,647 | 57.9 55.1 | 222 | 186 |
| | - | • | | | | | | | | |
| 1984 | January | 6,036 | 231 | -1 | 1 | 6,265 | 3,605 | 57.5 | 226 | 186 |
| | February | 6,317 | 299 | -383 | 2 | 6,231 | 3,585 | 57.5 | 237 | 197 |
| | March | 6,359 | 355 | -176 | 9 | 6,528 | 3,750 | 57.4 | 243 | 202 |
| | April May | 6,525 6,650 | 319 346 | -167 -105 | (s) | 6,676 6,890 | 3,857 4,004 | 57.8 58.1 | 248 253 | 207 |
| | June | 6,619 | 296 | 209 | (s) 17 | 7,107 | 4,004 4,214 | 59.3 | 255 | 210 204 |
| | July | 6,450 | 247 | 142 | 9 | 6,830 | 4,057 | 59.4 | 238 | 204 |
| | August | 6,405 | 242 | 447 | 1 | 7,093 | 4,283 | 60.4 | 224 | 186 |
| | September | 6,516 | 349 | -275 | 2 | 6,588 | 3,973 | 60.3 | 234 | 194 |
| | October | 6,388 | 308 | 34 | 1 | 6,729 | 4,093 | 60.8 | 232 | 193 |
| | November | 6,709 | 286 | -183 | 11 | 6,800 | 4,245 | 62.4 | 240 | 199 |
| | December | 6,478 | 308 | -215 | 16 | 6,555 | 4,168 | 63.6 | 243 | 205 |
| | Average | 6,453 | 299 | -54 | · 6 | 6,693 | 3,987 | 59.6 | | |
| 1985 | January | 5,889 | 204 | 245 | 2 | 6,336 | 4,026 | 63.5 | 234 | 198 |
| | February | 5,900 | 347 | 277 | 2 | 6,521 | 4,048 | 62.1 | 227 | 190 |
| | March | 6,041 | 473 | 118 | 3 | 6,629 | 4,189 | 63.2 | 220 | 186 |
| | April | 6,322 | 475 | 145 | 11 | 6,931 | 4,377 | 63.1 | 217 | 182 |
| | May | 6,533 | 487 | 25 | 8 | 7,036 | 4,422 | 62.8 | 217 | 181 |
| | June | 6,766 | 384 | -168 | 7 | 6,975 | 4,456 | 63.9 | 220 | 186 |
| | July | 6,763 | 426 | -174 | 18 | 6,997 7 996 | 4,536 | 64.8 65.7 | 228 | 192 |
| | August September | 6,810 6,315 | 302 313 | 129 16 | 4 6 | 7,236 6,639 | 4,753 4,374 | 65.7 65.9 | 223 224 | 188 |
| | October | 6,350 | 323 | 261 | 19 | 6,914 | 4,374 4,488 | 64.9 | 224 214 | 187 179 |
| | November | 6,476 | 418 | -88 | 19 | 6,790 | 4,400 4,490 | 66.1 | 214 | 182 |
| | December | R6,649 | R379 | R-259 | 18 | R6,752 | 4,490 4,548 | 67.4 | R223 | 190 |
| | Average | 6,404 | 378 | 43 | 10 | 6,815 | 4,395 | | | |
| 1986 | January† | 6,577 | 307 | -294 | NA | 6,572 | NA | NA | 238 | 199 |
| | | | | · · | | -, | | | | |

¹Stocks are totals as of end of period.
²Beginning in 1981, excludes blending components.
³A negative number indicates an increase in stocks and a positive number indicates a decrease.

Includes gasohol.

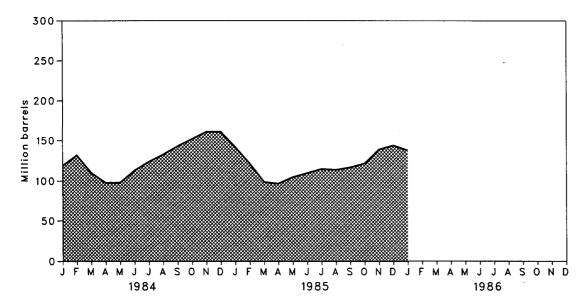
⁴Includes gasohol.
⁹Includes motor gasoline blending components.
⁹In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.
⁷Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.
[†]Italics denote estimates based upon preliminary data. R=Revised data. NA=Not available. (s)=Less than 500 barrels per day.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • See the last page of this section.

Distillate Fuel Oil Supply and Disposition



Product Supplied, Total Production, and Imports

Ending Stocks



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Distillate Fuel Oil Supply and Disposition

| | | | Sup | ply | | Dispo | sition | Ending Stocks ¹ | |
|------|----------------------|---------------------|---------|----------------------------------|--|---------|----------------------------------|-------------------------------|--|
| | | Total Production | Imports | Stock Withdrawal ² | Crude Used Directiy ³ | Exports | Product Supplied ³ | | |
| | | | | Thousand ba | arrels per day | | | Million barrel | |
| 1973 | Average | 2,822 | 392 | -115 | 2 | 9 | 3,092 | 196 | |
| 1974 | Average | 2,669 | 289 | -9 | 2 | 2 | 2,948 | 4200 | |
| 1975 | Average | 2,654 | 155 | 440 | 2 | 1 | 2,851 | 209 | |
| 1976 | Average | 2,924 | 146 | 62 | 1 | 1 | 3,133 | 186 | |
| 1977 | Average | 3,278 | 250 | -176 | 1 | 1 | • | 250 | |
| 1978 | | • | | | - | • | 3,352 | | |
| | Average | 3,167 | 173 | 93 | 1 | 3 | 3,432 | 216 | |
| 979 | Average | 3,153 | 193 | -34 | 1 | 3 | 3,311 | 229 | |
| 980 | Average | 2,662 | 142 | 64 | 1 | 3 | 2,866 | *205 | |
| 981 | Average ⁵ | 2,613 | 173 | 138 | 10 | 5 | 2,829 | 192 | |
| 1982 | Average | 2,606 | 93 | 35 | 10 | 74 | 2,671 | •17 9 | |
| 983 | January | 2,321 | 68 | • 580 | NA | 173 | 2,797 | 168 | |
| | February | 2,135 | 59 | 691 | NA | 105 | 2,780 | 148 | |
| | March | 1,993 | 42 | 971 | NA | 59 | 2,947 | 118 | |
| | April | 2,171 | 73 | 500 | NA | 47 | 2,697 | 103 | |
| | May | 2,444 | 147 | -186 | NA | 50 | 2,354 | 109 | |
| | June | 2,546 | 179 | -161 | NA | 40 | 2,524 | 114 | |
| | July | 2,604 | 267 | -546 | NA | 55 | 2,270 | 131 | |
| | August | 2,615 | 301 | -379 | NA | 43 | 2,495 | 142 | |
| | September | 2,739 | 259 | -386 | NA | 37 | 2,575 | 154 | |
| | October | 2,681 | 260 | -276 | NA | 55 | 2,611 | 163 | |
| | November | 2,680 | 203 | 45 | NA | 54 | 2,874 | 161 | |
| | December | 2,522 | 221 | 676 | NA | 54 | 3,365 | 140 | |
| | Average | 2,456 | 174 | 124 | NA | 64 | 2,690 | | |
| 984 | January | 2,591 | 299 | 676 | NA | 40 | 3,525 | 119 | |
| | February | 2,867 | 454 | -446 | NA | 41 | 2,834 | 132 | |
| | March | 2,479 | 115 | 731 | NA | 66 | 3,259 | 110 | |
| | April | 2,342 | 220 | 396 | NA | 32 | 2,926 | 98 | |
| | Мау | 2,624 | 253 | -15 | NA | 48 | 2,814 | 98 | |
| | June | 2,880 | 256 | -490 | NA | 53 | 2,593 | 113 | |
| | July | 2,719 | 199 | -373 | NA | 40 | 2,504 | 124 | |
| | August | 2,661 | 259 | -287 | NA | 74 | 2,559 | 133 | |
| | September | 2,707 | 291 | -321 | NA | 22 | 2,654 | 143 | |
| | October | 2,691 | 421 | -300 | NA | 47 | 2,765 | 152 | |
| | November | 2,826 | 316 | -291 | NA | 24 | 2,827 | 161 | |
| | December | 2,798 | 190 | -3 | NA | 120 | 2,865 | 161 | |
| | Average | 2,681 | 272 | -57 | NA | 51 | 2,845 | | |
| 985 | January | 2,608 | 271 | 624 | NA | 41 | 3,462 | 142 | |
| | February | 2,491 | 148 | 724 | NA | 64 | 3,299 | 122 | |
| | March | 2,244 | 153 | 715 | NA | 44 | 3,069 | 99 | |
| | April | 2,474 | 244 | 75 | NA | 27 | 2,767 | 97 | |
| | May | 2,670 | 203 | -243 | NA | 31 | 2,600 | 105 | |
| | June | 2,645 | 147 | -177 | NA | 30 | 2,584 | 110 | |
| | July | 2,644 | 95 | -177 | NA | 112 | 2,450 | 115 | |
| | August | 2,587 | 101 | 58 | NA | 100 | 2,646 | 114 | |
| | September | 2,614 | 208 | -115 | • NA | 121 | 2,586 | 117 | |
| | October | 2,902 | 247 | -149 | NA | 67 | 2,932 | 122 | |
| | November | 3,101 | 272 | -585 | NA | 92 | 2,696 | 139 | |
| | December | R3,176 | R291 | R-150 | NA | 81 | R3,236 | R144 | |
| | Average | 2,681 | 199 | 47 | NA | 67 | 2,859 | | |
| 986 | January† | 2,946 | 383 | 205 | NA | NA | 3,455 | 138 | |

¹Stocks are totals as of end of period.

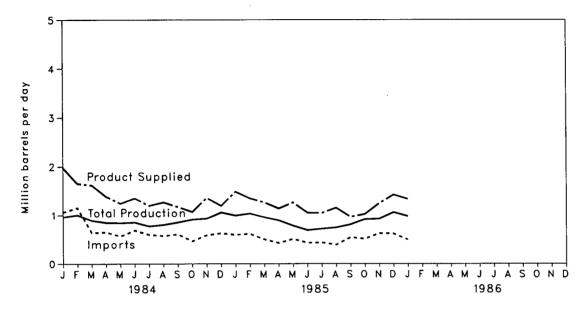
³A negative number indicates an increase in stocks and a positive number indicates a decrease. ³Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Note 4 on the last page of this section.

In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calcula-tions. See Note 5 on the last page of this section.

Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.
Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.
Halics denote estimates based upon preliminary data. R=Revised data. NA=Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • See the last page of this section.

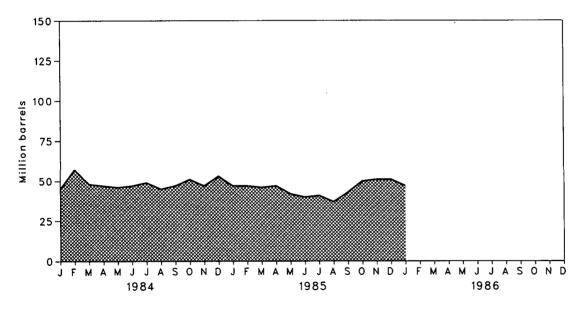
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Residual Fuel Oil Supply and Disposition





Ending Stocks



Residual Fuel Oil Supply and Disposition

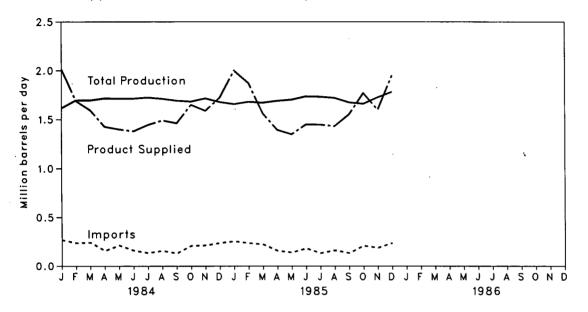
| | | | Sup | ply | | Dispo | Ending Stocks ¹ | |
|------|----------------------|---------------------|------------|----------------------------------|--|------------|----------------------------------|-----------------|
| | | Total Production | Imports | Stock Withdrawal ² | Crude Used Directly ³ | Exports | Product Supplied ³ | |
| | | | | Thousand ba | rrels per day | | | Million barrels |
| 1973 | Average | 971 | 1,853 | 5 | 17 | 23 | 2,822 | 53 |
| 1974 | Average | 1,070 | 1,587 | -17 | 13 | 14 | 2,639 | 460 |
| 1975 | Average | 1,235 | 1,223 | 12 | 15 | 15 | 2,462 | 74 |
| 1976 | Average | 1,377 | 1,413 | 5 | 17 | 13 | 2,801 | 72 |
| 1977 | Average | 1,754 | 1,359 | -48 | 13 | 6 | 3,071 | 90 |
| 1978 | Average | 1,667 | 1,355 | -40 | 13 | 13 | | 90 |
| 1979 | • | • | | | | | 3,023 | |
| | Average | 1,687 | 1,151 | -15 | 12 | 9 | 2,826 | 96 |
| 1980 | Average | 1,580 | 939 | 10 | 12 | 33 | 2,508 | '92 |
| 1981 | Average ⁵ | 1,321 | 800 | * 37 | 48 | 118 | 2,088 | 78 |
| 1982 | Average | 1,070 | 776 | 32 | 48 | 209 | 1,716 | *66 |
| 1983 | January | 972 | 691 | * 258 | NA | 294 | 1,626 | 61 |
| | February | 857 | 647 | 257 | NA | 191 | 1,570 | 53 |
| | March | 835 | 686 | 227 | NA | 169 | 1,579 | 46 |
| | April | 941 | 753 | -10 | NA | 310 | 1,374 | 47 |
| | May | 936 | 738 | -141 | NA | 190 | 1,342 | 51 |
| | June | 828 | 677 | 36 | NA | 218 | 1,323 | 50 |
| | July | 769 | 684 | -64 | NA | , 90 | 1,299 | 52 |
| | August | 710 | 739 | 115 | NA | 165 | 1,400 | 48 |
| | September | 826 | 706 | -47 | NA | 134 | 1,351 | 50 |
| | October November | · 807 | 638 | -50 | NA | 153 | 1,243 | 51 |
| | December | 845 897 | 780 649 | -97 182 | NA NA | 167 141 | 1,362 1,587 | 54 49 |
| | Average | 852 | 699 | 55 | NA | 185 | 1,387 1,421 | 45 |
| 1984 | January | 961 | 1,059 | 110 | NA | 151 | 1,979 | 45 |
| | February | 1,003 | 1,151 | -416 | NA | 87 | 1,651 | 57 |
| | March | 889 | 636 | 298 | NA | 204 | 1,619 | 48 |
| | April | 847 | 651 | 15 | NA | 130 | 1,384 | 47 |
| | May | 840 | 565 | 32 | NA | 200 | 1,237 | 46 |
| | June | 849 | 685 | -15 | NA | 176 | 1,344 | 47 |
| | July | 770 | 597 | -76 | NA | 99 | 1,192 | 49 |
| | August | 800 | 572 | 149 | NA | 260 | 1,261 | 45 |
| | September | 850 | 606 | -74 | NA | 214 | 1,168 | 47 |
| | October | 907 | 461 | -127 | NA | 174 | 1,066 | 51 |
| | November | 928 | 585 | 125 | NA | 286 | 1,352 | 47 |
| | December | 1,053 891 | 627 | -193 | NA | 299 | 1,189 | 53 |
| | Average | | 681 | -12 | NA | 190 | 1,369 | |
| 1985 | January | 991 | 594 | 208 | NA | 312 | 1,481 | 47 |
| | February | 1,031 | 614 | -7 | NA | 295 | 1,343 | 47 |
| | March April | 954 888 | 496 422 | 22 -11 | NA NA | 216 167 | 1,256 | 46 47 |
| | May | 780 | 422 505 | 156 | NA | 185 | 1,133 1,255 | 47 42 |
| | June | 686 | 426 | 53 | NA | 118 | 1,047 | 42 |
| | July | 714 | 431 | -20 | NA | 83 | 1,042 | 40 |
| | August | 741 | 386 | 125 | NA | 106 | 1,146 | 37 |
| | September | 804 | 537 | -193 | NA | 188 | 961 | 43 |
| | October | 912 | 509 - | -221 | NA | 184 | 1,017 | 50 |
| | November | 922 | 623 | -33 | NA | 275 | 1,237 | 51 |
| | December | R1,055 | R613 | R-2 | NA | 250 | R1,416 | R51 |
| | Average | 873 | 512 | 7 | NA | 197 | 1,194 | |
| 1986 | January† | 975 | 491 | 89 | NA | NA | 1,327 | 47 |

¹Stocks are totals as of end of period. ²A negative number indicates an increase in stocks and a positive number indicates a decrease. ³Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Note 4 on the last page of this

³Beginning in January 1983, product supplied for residual fuel of does not include crude of used directly. See Note 4 on the last page of this section.
⁴In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.
⁵Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.
[†]Italics denote estimates based upon preliminary data. R = Revised data. NA = Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Taske manoperate due to independent reuring and

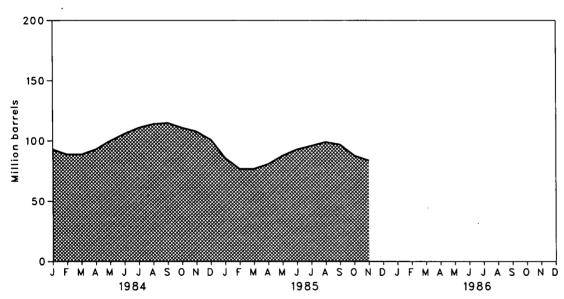
• Totals may not equal sum of components due to independent rounding. Sources: • See the last page of this section.

Liquefied Petroleum Gases Supply and Disposition



Product Supplied, Total Production, and Imports

Ending Stocks



Liquefied Petroleum Gases¹ Supply and Disposition

| | | | Supply | | | Disposition | n | Ending Stocks ² |
|------|----------------|---------------------|------------|----------------------------------|--------------------|-------------|---------------------|-------------------------------|
| | | Total Production | Imports | Stock Withdrawal ³ | Refinery Inputs | Exports | Product Supplied | |
| | | н П | | Thousand bar | rels per day | | | Million barrels |
| 1973 | Average | 1,600 | 132 | -35 | 220 | 27 | 1,449 | 99 |
| 1974 | Average | 1,565 | 123 | -38 | 220 | 25 | 1,406 | +113 |
| 1975 | Average | 1,527 | 112 | 4-35 | 246 | 26 | 1,333 | 125 |
| 1976 | Average | 1,535 | 130 | 24 | 260 | 25 | 1,404 | 116 |
| 1977 | Average | 1,566 | 161 | -55 | 233 | 18 | 1,422 | 136 |
| 1978 | Average | 1,537 | 123 | 12 | 239 | 20 | 1,413 | 132 |
| 1979 | Average | 1,556 | 217 | 70 | 236 | 15 | 1,592 | 111 |
| 1980 | Average | 1,535 | 216 | -27 | 233 | 21 | 1,469 | •120 |
| 1981 | Average | 1,505 | 244 | - <u>-</u> , -18 | 289 | 42 | 1,466 | 135 |
| 1982 | | 1,528 | 226 | 111 | 300 | 65 | • | 135 494 |
| | Average | | | | | | 1,499 | |
| 1983 | January | 1,611 | 240 | +520 | 313 | 118 | 1,939 | 86 |
| | February | 1,600 | 305 | 128 | 244 | 76 | 1,713 | 82 |
| | March | 1,543 | 166 | -9 | 197 | 127 | 1,377 | 82 |
| | April | 1,607 | 124 | -156 | 198 | 116 | 1,260 | 87 |
| | May | 1,613 | 167 | -225 | 207 | 84 | 1,263 | 94 |
| | June | 1,664 1,656 | 172 191 | -334 -221 | 203 217 | 59 55 | 1,241 | 104 |
| | July Auaust | 1,586 | 160 | -221 | 217 | 29 | 1,354 | 111 |
| | September | 1,705 | 178 | -30 | 236 | 29 86 | 1,289 1,531 | 117 118 |
| | October | 1,688 | 160 | -81 | 268 | 32 | 1,467 | 120 |
| | November | 1,785 | 180 | 70 | 362 | 33 | 1,640 | 118 |
| | December | 1,645 | 247 | 575 | 363 | 66 | 2,038 | +101 |
| | Average | 1,642 | 190 | 4 | 253 | 73 | 1,509 | -101 |
| 1984 | January | 1,615 | 269 | ∗ 494 | 340 | 23 | 2,015 | 93 |
| | February | 1,696 | 237 | 122 | 324 | 41 | 1,690 | 89 |
| | March | 1,696 | 241 | 12 | 288 | 68 | 1,593 | 89 |
| | April | 1,716 | 155 | -139 | 253 | 54 | 1,426 | 93 |
| | May | 1,714 | 211 | -240 | 244 | 42 | 1,399 | 100 |
| | June | 1,714 | 158 | -201 | 237 | 53 | 1,380 | 106 |
| | July | 1,725 | 132 | -139 | 232 | 43 | 1,444 | 111 |
| | August | 1,711 | 154 | -100 | 241 | 34 | 1,490 | 114 |
| | September | 1,693 | 128 | -50 | 283 | 26 | 1,462 | 115 |
| | October | 1,684 | 207 | 138 | 322 | 56 | 1,650 | 111 |
| | November | 1,716 | 212 | 89 | 376 | 52 | 1,588 | 108 |
| | December | 1,679 | 237 | 239 | 349 | 82 | 1,724 | 101 |
| | Average | , 1,697 | 195 | 19 | 291 | 48 | 1,572 | |
| 1985 | January | 1,658 | 255 | 466 | 309 | 70 | 2,001 | 86 |
| | February | 1,682 | 237 | 338 | 313 | 72 | 1,872 | 77 |
| | March | 1,672 | 223 | -13 | 270 | 52 | 1,560 | 77 |
| | April | 1,691 | 156 | -115 | 260 | 78 | 1,394 | 81 |
| | May | 1,703 | 138 | -217 | 235 | 40 | 1,349 | 88 |
| | June | 1,736 | 181 | -173 | 244 | 51 | 1,449 | 93 |
| | July | 1,733 | 131 | -107 | 243 | 68 | 1,447 | 96 |
| | August | 1,721 | 161 | -103 | 267 | 80 | 1,432 | 99 |
| | September | 1,675 | 132 | 84 | 311 | 29 | 1,551 | 97 |
| | October | 1,661 | 209 | 270 | 322 | 47 | 1,770 | 88 |
| | November | 1,727 | 188 | 135 | 360 | 88 | 1,600 | 84 |
| | December | 1,783 | 239 | 374 | 367 | 75 | 1,953 | 73 |
| | Average | 1,704 | 187 | 77 | 292 | 62 | 1,614 | • |

¹Includes ethane, propane, normal butane, and isobutane. ²Stocks are totals as of end of period.

*Stocks are totals as of end of period.
*A negative number indicates an increase in stocks and a positive number indicates a decrease.
*In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • See the last page of this section.

Other Petroleum Products¹ Supply and Disposition

| | | | Supply | | | Dispositior | ı | Ending Stocks ² |
|------|----------------------|-----------------------|-------------------|----------------------------------|--------------------|-------------|-----------------------|-------------------------------|
| | | Total Production | Imports | Stock Withdrawal ³ | Refinery Inputs | Exports | Product Supplied | |
| | | | | Thousand bar | rels per day | | | Million barrels |
| 1973 | Average | 3,693 | 502 | -9 . | 750 | 166 | 3,270 | 208 |
| 1974 | Average | 3,558 | 432 | -28 | 665 | 174 | 3,123 | 4218 |
| 1975 | Average | 3,424 | 277 | 4-2 | 537 | 160 | 3,002 | 219 |
| 1976 | Average | 3.643 | 206 | -5 | 524 | 175 | 3,145 | 220 |
| 1977 | Average | 3,912 | 205 | -27 | 514 | 165 | 3,410 | 230 |
| 1978 | Average | 4,046 | 166 | · 14 | 492 | 167 | 3,568 | 225 |
| 1979 | Average | 4,153 | 195 | -37 | 352 | 209 | 3,749 | 238 |
| 1980 | Average | 3,956 | 210 | -23 | 311 | 198 | 3,634 | 4247 |
| 1981 | | | 226 | 446 | 723 | 199 | | |
| 1982 | Average | 3,739 | | 80 | 723 787 | | 3,088 | 282 |
| | Average | 3,453 | 334 | | | 211 | 2,869 | 1 253 |
| 1983 | January | 3,194 | 322 | ⁴-419 | 588 | 271 | 2,239 | 271 |
| | February | 3,229 | 321 | 12 | 673 | 232 | 2,658 | 270 |
| | March | 3,381 | 319 | -147 | 572 | 249 | 2,732 | 275 |
| | April | 3,299 | 404 | -24 | 592 | 247 | 2,840 | 276 |
| | May | 3,405 | 374 | 35 | 705 | 242 | 2,866 | 275 |
| | June | 3,610 | 444 | 96 | 717 | 292 | 3,144 | 272 |
| | July | 3,636 | 425 | 148 | 735 | 209 | 3,265 | 267 |
| | August | 3,695 | 482 | 30 | 668 | 242 | 3,297 | 266 |
| | September | 3,792 | 497 | -6 | 788 | 236 | 3,255 | 266 |
| • | October | 3,578 | 424 | -107 | 711 | 195 | 2,990 | 270 |
| | November | 3,568 | 441 | 95 361 | 912 | 238 | 2,957 | 267 |
| | December Average | 3,123 3,460 | 479 411 | 361 6 | 883 712 | 257 242 | 2,823 2,923 | • 256 |
| | - | | | | | | | |
| 1984 | January | 3,376 | 517 | ⁴-163 | 570 | 207 | 2,953 | 253 |
| | February | 3,595 | 602 | -250 | 754 | 225 | 2,966 | 261 |
| | March | 3,512 | 485 | -227 | 527 | 258 | 2,988 | 268 |
| | April | 3,584 | 610 | -211 | 623 | 268 | 3,092 | 274 |
| | Мау | 3,683 | 662 | -105 | 764 | 257 | 3,218 | 277 |
| | June | 3,869 | 541 | 391 277 | 1,232 | 343 | 3,223 3,467 | 265 257 |
| | July | 3,864 | 587 569 | 41 | 1,022 637 | 238 | 3,467 | 257 |
| | August | 3,848 3,759 | 536 | -50 | 699 | 172 238 | 3,308 | 256 |
| | September October | 3,585 | 632 | -30 | 709 | 180 | 3,336 | 257 |
| | November | 3,532 | 606 | 81 | 945 | 279 | 2,997 | 254 |
| | December | 3,379 | 434 | 464 | 1,016 | 284 | 2,977 | 240 |
| | Average | 3,632 | 565 | 23 | 791 | 245 | 3,183 | 240 |
| 1985 | January | 3,258 | 352 | -102 | 494 | 223 | 2,792 | 243 |
| | February | 3,385 | 449 | -99 | 658 | 204 | 2,874 | 246 |
| | March | 3,436 | 536 | -415 | 627 | 190 | 2,739 | 259 |
| | April | 3,570 | 553 | -49 | 776 | 245 | 3,054 | 260 |
| | May | 3,677 | 661 | -106 | 883 | 191 | 3,158 | 264 |
| | June | 3,927 | 564 | 87 | 878 | 261 | 3,439 | 261 |
| | July | 3,998 | 649 | 31 | 910 | 241 | 3,525 | 260 |
| | August | 4,078 | 622 | 335 | 1,292 | 218 | 3,523 | 250 |
| | September | 3,874 | 574 | -1 | 846 | 274 | 3,323 | 250 |
| | October | 3,800 | 541 | 9 | 867 | 250 | 3,234 | 249 |
| | November | 3,815 | 610 | -177 | 939 | 277 | 3,029 | 255 |
| | December | 3,663 | 527 | 253 | 1,020 | 305 | 3,121 | 247 |
| | Average | 3,708 | 554 | -19 | 851 | 240 | 3,153 | |

¹Includes pentanes plus, other hydrocarbons and alcohol, unfinished oil, gasoline blending components, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases.
²Stocks are totals as of end of period.
³A negative number indicates an increase in stocks and a positive number indicates a decrease.
⁴In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding. Sources: • See the last page of this section.

Notes and Sources for the Petroleum Section

Notes

1. During 1981 the listing (frame) of operators of all facilities required to complete each monthly survey was updated. The refinery frame was found to be complete and accurate, although the frames for bulk terminals, pipelines, and crude oil stocks facilities were found to be outdated. A variety of sources (published directories, listings, and exploratory surveys) were researched for potential new respondents. As a result of this research, a significant number of respondents were added to the frames. The increase in the respondents for the frames affects the stocks of crude oil and petroleum products. For further details, see the Energy Information Administration (EIA), Petroleum Supply Monthly

2. Research conducted by the EIA in the latter half of 1980 indicated changes had taken place in the petroleum industry that were not being adequately reflected in the EIA survey forms. First, the flows of unfinished oils and the redesignation of finished products were not being accurately de-scribed on the EIA survey forms. Second, a substantial amount of motor gasoline was being produced at non-refinery "downstream blending stations" but was not being reported. Although empirical information is not available to precisely measure the historical effects, estimates of the magnitude of the differences in the major series affected are shown in the EIA, Petroleum Supply Monthly. Beginning in January 1981, the EIA modified its survey forms, changed definitions of gasoline (motor and aviation), and added the non-refinery blenders previously not reported.

3. Motor Gasoline: Beginning in January 1981, the EIA expanded its universe to include non-refinery blenders; redefined motor gasoline into two categories (finished leaded and finished unleaded); and separated blending components from finished motor gasoline as a reporting category. Also, survey forms were modified to describe refinery operations more accurately. For further details, see the EIA, *Petroleum Supply Monthly.*

4. Distillate and Residual Fuel Oils: The requirement to report crude oil burned on leases and pipelines as either distillate or residual fuel oil has been eliminated. Prior to January 1981, the refinery input of unfinished oils number typically exceeded the number for available supply of unfinished oils. This was assumed to be due to the redesignation ished oils. This was assumed to be due to the redesignation of distillate and residual fuel oils received as such, but used as an unfinished oil input by the receiving refinery. This imbalance between supply and disposition of unfinished oils would then be subtracted from the production of distillate and residual fuel oils. Two-thirds of this difference was subtracted from distillate and one-third from residual. Begin-ing in Lanuary 1981 the EIA mediida its suprov forme to account for redesignated product and discontinued the above-mentioned adjustment. For further details, see the EIA, Petroleum Supply Monthly.

5. New Stock Basis: In January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and

- pipeline surveys affecting subsequent stocks reported and a stock withdrawal calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been:
 - Crude Oil: 1982-645 (Total) and 351 (Other Primary)
 - Crude Oil and Petroleum Products: 1974—1.121: 1980-

1,420; and 1982-1,462. Motor Gasoline: 1974-

-225: 1980-263: 1982-244 (Total) and 203 (Finished). • Distillate Fuel Oil: 1974–224; 1980–205; and 1982–

186

• Residual Fuel Oil: 1974-75; 1980-91; and 1982-68.

 Liquefied Petroleum Gases: 1974—113;1980—128; and 1982-103

 Other Petroleum Products: 1974—220; 1980—249; and 1982-259.

Stock withdrawal calculations beginning in 1975, 1981, and 1983, were made using new basis stock levels.

In January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream, which was formerly included in "Other Petroleum Products Supply was formery included in Oriel Petroleum Products Supply and Disposition" table, is now reported on a component basis (ethane, propane, normal butane, isobutane and pen-tanes plus). Most of these stocks will now appear in the "Liquefied Petroleum Gases Supply and Disposition" table. This change will affect stocks reported and stock withdrawals in each table. Under new basis, end-of-year 1983 stocks, in million barrels would have been:
Liquefied Petroleum Gases: 1983—108.
Other Petroleum Products: 1983—248.

6. Stocks of Alaskan crude oil in transit were included for the first time in January 1981. The major impact of this change is on the reporting of stock withdrawal calculations. Using the expanded coverage (new basis), 1980 end-of-year stocks, in million barrels, would have been 488 (Total) and 380 (Other Primary).

Sources

• 1973 through 1976: U.S. Department of the Interior, Statement, Annual" and "PAD Districts Supply/Demand, "Petroleum Annual."

Annual." • 1977 through 1980: Energy Information Administration (EIA), *Energy Data Reports*, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual" and unleaded gasoline data from *Monthly Petroleum Statistics Report*. • January 1981 through December 1984: EIA, *Petroleum Supply Annual*. • Jonumy 1985 through December 1985: Detailed statistics

 January 1985 through December 1985: Detailed statistics in appropriate issues of the Petroleum Supply Monthly (except domestic crude oil production).

January 1986: Estimates based on EIA weekly data (except domestic crude oil production).

January 1985 through January 1986: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey.

Total dry natural gas production in the United States during December 1985 was an estimated 1.5 trillion cubic feet. This was 1.8 percent less than in December 1984. During 1985, total dry natural gas production was an estimated 16.5 trillion cubic feet, 5.0 percent less than the 1984 production average.

Consumption of natural and supplemental gas in December 1985 was an estimated 2.1 trillion cubic feet. This was 12.5 percent higher than in December 1984. During 1985, consumption of natural gas was an estimated 17.4 trillion cubic feet, 3.2 percent less than the 1984 consumption average.

Deliveries to industrial consumers, the principal end users of natural gas, during November 1985 (latest data available) were an estimated 694 billion cubic feet. This was 6.8 percent lower than in November 1984.

Imports of natural gas in December 1985 were an estimated 106 billion cubic feet, 12.8 percent higher than in the previous December. Total natural gas imports for 1985 average 936 billion cubic feet, 11.0 percent more than the average imports for 1984. There were no imports of Algerian liquefied natural gas (LNG) during December.

Stocks of working gas* in underground natural gas storage reservoirs at the end of December 1985 totaled 2,609 billion cubic feet. This was 9.3 percent below stocks available a year earlier. Net withdrawals from storage during December 1985 were 483 billion cubic feet, more than double the rate of withdrawals during the previous December.

*Gas available for withdrawal.

Monthly Energy Review November 1985 Energy Information Administration

Production Summary

| | | Gross Wet Gas Withdrawals ¹ | Used for Repressuring ² | Nonhydro- carbon Gas Removed³ | Vented and Flared | Marketed Production (Wet) ⁴ | Extraction Loss ³ | Total Dry Gas Production ^s |
|--------------|----------------------|--|---------------------------------------|-------------------------------------|-------------------------|--|---------------------------------|---|
| | | | | | Billion cubic fe | et | | |
| 1973 1974 | Total Total | 24,067 22,850 | 1,171 1,080 | NA NA | 248 169 | °22,648 °21,601 | 917 887 | *21,731 *20,713 |
| 1975 1976 | Total Total | 21,104 20,944 | 861 859 | NA | 134 | °20,109 | 872 | *19,236 |
| 1970 | Total | 20,944 21,097 | 935 | NA NA | 132 137 | ۰19,952 ۵20,025 | 854 863 | °19,098 °19,163 |
| 1978 | Total | 21,309 | 1,181 | NA | 153 | °19,974 | 852 | °19,122 |
| 1979 | Total | 21,883 | 1,245 | NA | 167 | °20,471 | 808 | °19,663 |
| 1980 | Total | 21,870 | 1,365 | 199 | 125 | 20,180 | 777 | 19,403 |
| 1981 | Total | 21,587 | 1,312 | 222 | 98 | 19,956 | 775 | 19,181 |
| 1982 | Total | 20,210 | 1,388 | 208 | 93 | 18,520 | 762 | 17,758 |
| 1983 | January | 1,688 | 125 | 20 | 7 | 1,536 | 72 | 1,464 |
| | February | 1,488 | 111 | 17 | 7 | 1,353 | 64 | 1,289 |
| | March April | 1,552 1,470 | 125 123 | 18 16 | 8 · · · 8 | 1,401 1,323 | 66 62 | 1,335 |
| | May | 1,467 | 114 | 17 | 9 | 1,328 | 62 | 1,261 1,266 |
| | June | 1,415 | 121 | 19 | 7 | 1,268 | 60 | 1,208 |
| | July | 1,502 | 128 | 18 | 8 | 1,348 | 63 | 1,285 |
| | August | 1,555 | 127 | 20 | 8 | 1,400 | 66 | 1,334 |
| | September | 1,514 | 123 | 19 | 8 | 1,364 | 64 | 1,300 |
| | October | 1,591 | 125 | 18 | 8 | 1,440 | 68 | 1,372 |
| | November December | 1,602 1,753 | 117 119 | 19 21 | 9 8 | 1,457 | 68 | 1,389 |
| | Total | 18,597 | 1.458 | 222 | 95 | 1,605 16,822 | 75 790 | 1,530 16,033 |
| 1984 | | | | | | | | 1 |
| 1504 | January February | 1,887 1,650 | 135 127 | 21 17 | 9 8 | 1,723 1,497 | · 79 69 | 1,644 1,428 |
| | March | 1,693 | 125 | 19 | 9 | 1,540 | 71 | 1,469 |
| | April | 1,666 | 132 | 18 | 9 | 1,507 | 69 | 1,438 |
| | May | 1,668 | 138 | 19 | 9 | 1,503 | 69 | 1,434 |
| | June | 1,619 | 135 | 18 | 9 | 1,456 | 67 | 1,389 |
| | July | 1,676 | 137 | 20 | 10 | 1,509 | 69 | 1,440 |
| | August September | 1,653 | 137 132 | 19 16 | 9 | 1,487 | 68 | 1,419 |
| | October | 1,574 1,661 | 143 | 19 | 9 9 | 1,417 1,490 | 65 69 | 1,352 1,421 |
| | November | 1,656 | 142 | 17 | 10 | 1,487 | 68 | 1,419 |
| | December | 1,789 | 146 | 21 | 8 | 1,613 | 74 | 1,539 |
| | Total | 20,192 | 1,630 | 224 | 108 | 18,230 | 838 | 17,392 |
| 1985 | January | 1,788 | 124 | 20 | 7 | 1,637 | 75 | 1,562 |
| | February | 1,635 | 122 | 18 | 6 | 1,489 | 68 | 1,421 |
| | March | 1,651 | 137 | 19 | 6 | 1,490 | 69 | 1,421 |
| | April May | 1,563 1,541 | 137 133 | 18 19 | 6 | 1,401 1,383 | 64 64 | 1,337 1,319 |
| | June | 1,484 | 126 | 17 | 7 6 | 1,335 | 61 | 1,274 |
| | July | 1,538 | 133 | 20 | 7 | 1,379 | 63 | 1,316 |
| | August | 1,547 | 133 | 19 | 7 | 1,388 | 64 | 1,324 |
| | September | 1,529 | 131 | 19 | 7 | 1,372 | 63 | 1,309 |
| | October | 1,594 | 137 | 20 | 7 | 1,430 | 66 | 1,364 |
| | November December | 1,598 1,767 | 137 | <i>20</i> | 7 | 1,434 | 66 70 | 1,368 |
| | December Total | 1,767 19,235 | 152 1,602 | 22 231 | - 8 81 | 1,585 17,323 | 73 796 | 1,512 16,527 |
| | istai | 13,200 | 1,002 | 231 | 01 | 11,525 | / 30 | 10,527 |

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¹Gas withdrawn from gas and oil wells.
²Gas returned to formations for repressuring, pressure maintenance, and cycling.
³For definitions and further explanations, see Notes on the last two pages of this section.
⁴Equal to gross withdrawals minus volumes used for repressuring, volumes of nonhydrocarbon gases removed, and volumes vented and flared. See Note 2 on the last two pages of this section for further explanation.
⁸Equal to marketed production (wet) minus extraction loss.
⁹May include unknown quantities of nonhydrocarbon gases.
NA = Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Italics denote estimated data. Data for 1973 through 1984 are final. All other data are preliminary unless otherwise indicated. Sources: • See the last page of this section.

Monthly Energy Review November 1985 Energy Information Administration

Supply and Disposition of Natural Gas

| Production Storage Fuelss Imports Disposition Storage Exports Iton for Billion cubic teat Billion cubic teat Billion cubic teat Billion cubic teat 1973 Total 221,731 1,701 NA 959 23,373 1,774 77 22,049 198 1975 Total 198,080 1,921 NA 959 23,373 1,764 77 21,223 289 1975 Total 198,080 1,921 NA 964 21,983 1,756 65 19,346 216 1977 Total 19,163 1,750 NA 1,011 21,924 2,307 56 19,521 41 1978 Total 19,163 1,772 155 95 56 20,241 32,246 2,228 59 19,404 501 1980 Total 19,161 1,920 176 904 22,191 2,228 59 1,642 52 1980< | | | | Supp | ly | | | Disposition | | | |
|--|------|----------|----------------|-----------------|-------------------|----------------------|-------------------|-------------|----------------------|--------|-----------|
| 1973 Total '21,731 1,533 NA 1,033 24,297 1,974 77 22,049 196 1974 Total '12,026 1,700 NA 959 23,373 1,744 77 21,223 228 1975 Total '13,026 1,760 NA 964 21,943 1,756 65 19,946 2164 13 19,53 23,07 56 19,946 2164 14 19,122 2,156 NA 1011 21,942 2,307 56 19,946 21,87 717 7164 14,978 72,157 NA 1,253 22,964 2,295 56 19,241 372 727 7640 749 79 70,44 77 21,247 52 18,001 1475 759 721,47 750 721,477,56 21,600 2,472 52 18,001 735 59 19,404 501 735 59 19,404 501 735 59 16,402 52 1,501 54 74 74 1,505 54 740 74 74 <th></th> <th></th> <th>Gas</th> <th>drawals from</th> <th>mental Gaseous</th> <th>Imports²</th> <th>Supply/</th> <th>to</th> <th>Exports²</th> <th>· ·</th> <th>accounted</th> | | | Gas | drawals from | mental Gaseous | Imports ² | Supply/ | to | Exports ² | · · | accounted |
| 1974 Total 120,713 1701 NA 955 1,724 77 21,223 289 1975 Total 119,099 1,921 NA 953 21,949 2,104 73 19,538 238 1976 Total 119,099 1,921 NA 964 21,983 1,756 65 19,946 216 1977 Total 119,163 1,750 NA 1,011 21,924 2,307 55 19,521 287 1979 Total 19,632 2,047 NA 1,253 22,964 2,295 56 20,241 372 1980 Total 19,163 1,930 176 904 22,191 2,2248 59 19,404 501 1982 Total 17,758 2,164 145 933 21,000 2,472 52 18,001 475 1982 Total 19,163 132 2,065 26 5 1,975 59 February 1,266 43 9 61 1,373 30 | | | | | | E | Billion cubic fee | t | | | |
| 1974 Total 12,713 1,701 NA 959 23,373 1,744 77 21,223 289 1975 Total 19,236 1,760 NA 953 21,949 2,104 77 19,53 235 1976 Total 119,038 1,921 NA 964 21,943 2,104 756 65 19,946 216 1977 Total 119,122 2,156 NA 964 22,245 2,278 53 19,627 247 1990 Total 19,603 1,772 155 985 22,374 22,949 49 19,827 640 1981 Total 19,403 1,775 640 145 933 21,000 2,472 52 18,001 475 1982 January 1,464 474 15 112 2,065 2,67 1,975 59 February 1,285 2,061 2 85 1,713 83 5 1,642 32 March 1,325 260 12 86 | 1973 | Total | '21,731 | 1,533 | NA | 1,033 | 24,297 | 1,974 | 77 | 22.049 | 196 |
| 1975 Total '19,098 1,760 NA 953 21,949 2,104 73 19,538 235 1976 Total '18,163 1,750 NA 1,011 21,924 2,307 56 19,521 41 1978 Total '19,163 2,047 NA 1,252 2,215 1,344 49 19,627 2871 1980 Total 19,463 1,972 155 985 22,215 1,149 49 19,677 640 1981 Total 19,463 1,972 155 985 22,515 1,149 49 19,677 640 1982 Total 17,758 2,164 145 933 21,000 2,472 52 18,001 475 1982 January 1,464 474 15 112 2,065 26 5 1,373 51 Agrini 1,281 171 11 74 1,517 88 5 1,333 51 Agrini 1,384 37 9 56 1,436 | 1974 | Total | '20,713 | 1,701 | NA | 959 | 23,373 | | 77 | | 289 |
| 1976 Total '19,098 1,921 NA 964 21,983 1,756 65 19,464 216 1977 Total '19,163 1,750 NA 966 22,245 2,207 56 19,521 41 1978 Total '19,663 2,047 NA 1,253 22,964 2,207 56 20,241 372 1980 Total 19,403 1,972 155 985 22,515 1,949 49 19,877 640 1981 Total 19,181 1,930 176 904 22,191 2,228 59 19,404 501 1982 January 1,464 474 15 112 2,065 26 5 1,975 59 March 1,335 220 12 86 1,713 63 5 1,561 54 March 1,266 171 11 74 1,517 88 5 1,373 51 54 June 1,266 26 8 58 1,377 287 | 1975 | Totai | 19,236 | 1,760 | NA | 953 | | | | | |
| 1977 Total '19,163 1,750 NA 1,011 21,924 2,307 56 19,521 41 1978 Total '19,163 2,158 NA 966 22,245 2,278 53 19,627 287 1980 Total 19,463 1,972 155 985 22,215 1,949 49 19,877 640 1981 Total 19,403 1,972 155 985 22,215 1,949 49 19,877 640 1982 Total 19,181 1,330 176 904 22,114 322 55 1,944 50 January 1,464 474 15 112 2,065 26 5 1,975 59 February 1,226 20 12 86 1,713 68 5 1,333 51 June 1,208 23 8 59 12,946 273 3 974 48 July 1,265 26 8 58 1,377 287 5 1,034 | 1976 | Total | 19,098 | 1,921 | NA | 964 | | • | | | |
| 1978 Total 119,663 2,047 NA 1966 22,245 2,278 53 19,627 287 1979 Total 19,663 2,047 NA 1,253 22,964 2,295 56 20,241 372 1980 Total 19,403 1,972 155 985 22,515 1,949 49 18,407 640 1981 Total 19,181 1,390 176 904 22,191 2,228 59 19,404 501 1982 Total 17,758 2,164 145 933 21,000 2,472 52 18,001 475 1983 January 1,464 474 15 112 2,065 26 5 1,975 59 February 1,268 233 8 59 1,738 39 5 1,642 52 Jane 1,266 43 9 61 1,377 273 3 974 46 June 1,285 26 8 58 1,377 273 3 | 1977 | Total | ·19,163 | 1,750 | NA | 1,011 | • | | | • | |
| 1979 Total '19,663 2,247 NA 1,253 22,964 2,295 56 20,241 372 1980 Total 19,403 1,972 155 985 22,515 1,949 49 19,607 640 1981 Total 19,181 1,758 2,164 145 933 21,000 2,472 52 18,001 475 1982 Total 17,758 2,164 145 933 21,000 2,472 52 18,001 475 1983 January 1,464 474 15 112 2,065 26 5 1,975 59 April 1,261 171 171 174 1,517 88 5 1,373 39 74 48 June 1,265 26 8 58 1,377 287 5 1,034 51 August 1,334 37 9 56 1,404 277 4 1,071 52 October 1,372 421 64 1,408 183 | 1978 | Total | 19,122 | | | • | | | | | |
| 1980 Total 19,03 1,972 155 985 22,915 1,949 49 19,077 640 1981 Total 17,759 2,164 145 933 21,000 2,472 52 18,001 475 1982 Total 17,759 2,164 145 933 21,000 2,472 52 18,001 475 1983 January 1,464 474 15 112 2,065 26 5 1,975 59 March 1,335 2800 12 86 1,713 63 5 1,591 54 April 1,266 43 9 66 1,437 205 5 1,118 51 June 1,208 23 8 59 1,298 273 3 974 48 August 1,334 37 9 56 1,436 255 1,128 50 5 1,268 6 1,112 53 | 1979 | Total | 19,663 | • | | | | | | • | |
| 1981 Total 19,141 19,30 176 904 22,191 22,228 59 19,404 501 1982 Total 17,758 2,164 145 933 21,000 2,472 52 18,001 475 1983 January 1,464 474 15 112 2,065 26 5 1,975 59 February 1,289 341 13 95 1,738 39 5 1,642 52 April 1,325 280 12 86 1,717 88 5 1,591 544 June 1,208 23 8 59 1,298 273 3 974 48 July 1,285 26 8 58 1,377 48 1,071 52 September 1,300 28 9 67 1,404 277 4 1,071 52 November 1,899 169 12 80 | 1980 | Total | | | | • | | • | | • | |
| 1982 Total 17,758 2,164 145 933 21,000 2,472 52 18,001 475 1983 January 1,464 474 15 112 2,065 26 5 1,975 59 March 1,335 280 12 86 1,713 63 5 1,591 54 April 1,261 171 11 74 1,517 88 5 1,373 51 June 1,266 43 9 61 1,379 205 5 1,118 51 June 1,208 23 8 59 1,298 2,73 3 974 48 July 1,285 26 8 56 1,436 265 6 1,112 53 September 1,300 22 10 64 1,488 183 4 1,246 55 December 1,503 634 17 107 2,288 <td>1981</td> <td>Total</td> <td>•</td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> | 1981 | Total | • | | | | • | | | | |
| 1983 January 1,464 474 15 112 2,065 26 5 1,975 59 March 1,335 280 12 86 1,713 63 5 1,642 52 April 1,261 171 11 74 1,517 88 5 1,373 51 June 1,208 23 8 59 1,298 273 3 974 40 July 1,285 26 8 58 1,377 267 5 1,034 51 September 1,300 28 9 67 1,404 277 4 1,071 52 October 1,389 169 12 80 1,650 86 5 1,503 56 December 1,500 634 17 107 2,286 31 5 2,191 61 Total 16,033 2,270 132 920 19,354 1,822 55 16,833 6422 1984 January 1,444 580 | 1982 | Total | • | | | | | | | • | |
| February 1.269 341 13 95 1.738 35 5 1.642 52 March 1.335 280 12 86 1.713 63 5 1.531 54 April 1.261 171 174 1.517 88 5 1.333 51 May 1.266 43 9 61 1.379 205 5 1.118 51 June 1.205 26 8 59 1.288 277 4 1.071 52 October 1.372 42 0 64 1.436 265 6 1.12 53 September 1.300 28 9 67 1.436 265 6 1.171 52 October 1.372 42 10 64 1.468 153 4 1.246 55 5 2.260 14 November 1.369 2.270 132 920 19.364 | 1983 | January | 1 464 | 474 | 15 | 112 | 2 065 | 26 | Б | | 50 |
| March 1.335 280 12 66 1.713 63 5 1.507 54 April 1.261 171 11 74 1.517 88 5 1.373 51 May 1.266 43 9 61 1.379 205 5 1,118 51 June 1.208 23 8 59 1.298 273 3 974 48 June 1.334 37 9 56 1.436 265 6 1.112 53 September 1.372 42 10 64 1.488 183 4 1.246 55 November 1.399 169 12 80 1.650 86 5 1.503 562 December 1.503 634 137 107 2.288 31 5 2.191 61 Total 16.033 2.270 132 920 19,354 1,822 55 | | | | | | | | | | • | |
| April 1,261 171 11 74 1,517 88 5 1,573 51 May 1,266 43 9 61 1,379 205 5 1,118 51 June 1,206 23 8 59 1,298 273 3 974 44 July 1,285 26 8 58 1,377 287 5 1,034 51 August 1,300 28 9 67 1,404 277 4 1,071 52 October 1,372 42 10 64 1,486 183 4 1,246 55 December 1,530 634 17 107 2,288 31 5 2,191 61 Total 16,033 2,270 132 920 19,354 1,822 55 1,635 *642 January 1,644 560 13 97 2,334 55 2,260 | | | | | | | | | | | |
| May 1,266 43 9 61 1,379 205 5 1,118 51 June 1,205 26 8 59 1,298 273 3 974 48 August 1,334 37 9 56 1,436 265 6 1,112 52 September 1,300 28 9 67 1,404 277 4 1,071 52 October 1,372 42 10 64 1,488 183 4 1,246 55 October 1,330 634 17 107 2,288 31 5 2,191 61 Total 16,033 2,270 132 920 19,354 1,822 55 16,835 6422 1984 January 1,644 580 13 97 2,334 55 5 2,260 14 March 1,469 371 10 69 1,817 61 | | April | | 171 | | | | | | | |
| June 1.208 23 8 59 1.298 273 3 974 48 August 1.334 37 9 56 1.436 265 6 1.112 53 September 1.300 28 9 67 1.404 277 4 1.071 52 October 1.372 42 10 64 1.488 183 4 1.246 55 November 1.389 169 12 80 1.650 86 5 1.503 5642 Total 16.033 2.270 132 920 19.354 1,822 55 5 2.260 14 February 1.428 310 10 69 1,817 61 5 1,739 12 March 1.468 102 8 71 1.619 147 5 1,456 11 May 1.438 102 8 71 1.619 147 | | May | 1,266 | 43 | 9 | 61 | | | | • | |
| August 1,334 37 9 56 1,436 265 6 1,112 53 September 1,300 28 9 67 1,404 277 4 1,071 52 October 1,372 42 10 64 1,488 183 4 1,246 55 November 1,389 169 12 80 1,650 86 5 1,503 56 December 1,530 634 17 107 2,288 31 5 2,191 61 Total 16,033 2,270 132 920 19,354 1,822 55 16,835 *642 1984 January 1,644 580 13 97 2,334 55 5 2,260 14 April 1,438 102 8 71 1,619 147 5 1,456 11 March 1,434 31 7 66 1,538 <t< td=""><td></td><td></td><td></td><td>23</td><td></td><td>59</td><td>1,298</td><td>273</td><td></td><td>974</td><td>48</td></t<> | | | | 23 | | 59 | 1,298 | 273 | | 974 | 48 |
| September 1,300 28 9 67 1,404 277 4 1,071 52 October 1,372 42 10 64 1,488 183 4 1,246 55 November 1,530 634 17 107 2,288 31 5 2,191 61 Total 16,033 2,270 132 920 19,354 1,822 55 16,835 *642 1984 January 1,644 580 13 97 2,334 55 5 2,260 14 February 1,449 310 10 69 1,817 61 5 1,739 12 March 1,469 371 10 69 1,919 49 6 1,851 13 June 1,389 128 7 59 1,483 329 3 1,140 11 June 1,389 28 7 59 1,531 | | | | | | | 1,377 | 287 | | 1,034 | 51 |
| October 1,372 42 10 64 1,488 183 4 1,246 55 November 1,389 169 12 80 1,650 86 5 1,503 56 December 1,530 634 17 107 2,288 31 5 2,191 61 Total 16,033 2,270 132 920 19,354 1,822 55 16,835 *642 1984 January 1,644 580 13 97 2,334 55 5 2,260 14 February 1,428 310 10 69 1,919 49 6 1,851 13 April 1,438 102 8 71 1,619 147 5 1,456 11 May 1,440 29 7 55 1,531 353 5 1,161 12 August 1,419 31 8 54 1,512 | | | • | | | | | | | | |
| November 1,389 169 12 80 1,650 86 5 1,503 56 December 1,530 634 17 107 2,288 31 5 2,191 61 Total 16,033 2,270 132 920 19,354 1,822 55 16,835 #642 1984 January 1,644 580 13 97 2,334 55 5 2,260 14 February 1,428 310 10 69 1,817 61 5 1,739 12 March 1,469 371 10 69 1,817 61 5 1,739 12 March 1,438 102 8 71 1,619 147 5 1,456 11 May 1,434 31 7 66 1,533 329 5 1,264 10 June 1,389 28 7 59 1,483 329< | | | | | | | | | | | |
| December 1,530 634 17 107 2,288 31 5 2,191 61 Total 16,033 2,270 132 920 19,354 1,822 55 16,835 *642 1984 January 1,644 580 13 97 2,334 55 5 2,260 14 March 1,469 371 10 69 1,919 49 6 1,851 13 April 1,438 102 8 71 1,619 147 5 1,456 11 May 1,344 31 7 66 1,538 259 5 1,264 10 June 1,389 28 7 59 1,483 329 3 1,140 11 July 1,440 29 7 55 1,531 353 5 1,61 12 August 1,319 8 57 1,448 295 5 | | | | | | | | | | | |
| Total 16,033 2,270 132 920 19,354 1,822 55 16,835 *642 1984 January 1,644 580 13 97 2,334 55 5 2,260 14 February 1,428 310 10 69 1,817 61 5 1,739 12 March 1,469 371 10 69 1,817 61 5 1,739 12 March 1,434 102 8 71 1,619 147 5 1,456 11 May 1,434 31 7 66 1,538 259 5 1,264 10 June 1,389 28 7 59 1,483 329 3 1,140 11 July 1,440 29 7 55 1,531 355 1,161 12 August 1,419 31 8 57 1,448 295 5 | | | | | | | | | | | |
| 1984 January 1,644 580 13 97 2,334 55 5 2,260 14 February 1,428 310 10 69 1,817 61 5 1,739 12 March 1,469 371 10 69 1,919 49 6 1,851 13 April 1,434 102 8 71 1,619 147 5 1,456 11 May 1,434 31 7 66 1,538 229 3 1,140 11 June 1,389 28 7 59 1,483 329 3 1,140 11 July 1,440 29 7 55 1,531 353 5 1,161 12 August 1,419 31 8 54 1,512 324 5 1,388 10 October 1,421 48 8 67 1,544 247 5 <td></td> | | | | | | | | | | | |
| February 1428 310 10 69 1,817 61 5 1,739 12 March 1,469 371 10 69 1,919 49 6 1,851 13 April 1,438 102 8 71 1619 147 5 1,456 11 May 1,434 31 7 66 1,538 259 5 1,264 10 June 1,389 28 7 59 1,483 329 3 1,140 11 July 1,440 29 7 55 1,531 353 5 1,161 12 August 1,419 31 8 54 1,512 324 5 1,172 11 November 1,421 48 8 67 1,544 247 5 1,644 12 Total 17,392 2,098 110 843 20,443 2,295 55 | 1984 | January | 1 644 | | | | , | • | | • | |
| March 1,469 371 10 69 1,919 49 6 1,851 13 April 1,438 102 8 71 1,619 147 5 1,456 11 May 1,434 31 7 66 1,538 259 5 1,264 10 June 1,389 28 7 59 1,483 329 3 1,140 11 June 1,389 28 7 59 1,631 353 5 1,161 12 August 1,419 31 8 54 1,512 324 5 1,172 11 September 1,352 31 8 57 1,448 295 5 1,181 10 October 1,419 231 11 84 1,745 85 5 1,644 11 December 1,539 309 13 94 1,955 94 5 1,844 12 Total 17,392 2,098 110 843 20,443 | | | • | | | | | | | | |
| April 1,438 102 8 71 1,619 147 5 1,456 11 May 1,434 31 7 66 1,538 259 5 1,264 10 June 1,389 28 7 59 1,483 329 3 1,140 11 July 1,440 29 7 55 1,531 353 5 1,161 12 August 1,419 31 8 54 1,512 324 5 1,172 11 September 1,352 31 8 57 1,448 295 5 1,138 10 October 1,421 48 8 67 1,544 247 5 1,262 10 November 1,59 309 13 94 1,955 94 5 1,644 12 Total 17,992 2,098 110 843 20,443 2,295 55 17,951 *143 1985 January 1,562 659 16 104 | | | | | | | • | | | | |
| May 1,434 31 7 66 1,538 259 5 1,264 10 June 1,389 28 7 59 1,483 329 3 1,140 11 July 1,440 29 7 55 1,531 353 5 1,161 12 August 1,419 31 8 54 1,512 324 5 1,172 11 September 1,352 31 8 57 1,448 295 5 1,138 10 October 1,419 231 11 84 1,745 85 5 1,644 11 December 1,539 309 13 94 1,955 94 5 1,844 12 Total 17,392 2,098 10 843 20,443 2,295 55 17,951 *143 1985 January 1,562 659 16 104 2,341 35 5 2,264 37 June 1,421 213 13 89 | | April | 1,438 | 102 | 8 | | | | | | |
| June 1,389 28 7 59 1,483 329 3 1,140 11 July 1,440 29 7 55 1,531 353 5 1,161 12 August 1,419 31 8 54 1,512 324 5 1,172 11 September 1,352 31 8 57 1,448 295 5 1,138 10 October 1,421 48 8 67 1,544 247 5 1,282 10 November 1,419 231 11 84 1,745 85 5 1,644 11 December 1,539 309 13 94 1,955 94 5 1,844 12 Total 17,392 2,098 110 843 20,443 2,295 55 17,951 *143 1985 January 1,562 659 16 104 2,341 35 5 2,264 37 February 1,421 437 14 | | May | | 31 | 7 | 66 | | | | | |
| August 1,419 31 8 54 1,512 324 5 1,172 11 September 1,352 31 8 57 1,448 295 5 1,138 10 October 1,421 48 8 67 1,544 247 5 1,282 10 November 1,419 231 11 84 1,745 85 5 1,644 11 December 1,539 309 13 94 1,955 94 5 1,844 12 Total 17,392 2,098 110 843 20,443 2,295 55 17,951 *143 1985 January 1,562 659 16 104 2,341 35 5 2,264 37 February 1,421 437 14 98 1,970 48 4 1,884 34 March 1,421 213 13 89 1,736 97 4 1,601 34 April 1,337 94 10 | | | | | | | 1,483 | 329 | | | 11 |
| September 1,352 31 8 57 1,448 295 5 1,112 11 October 1,421 48 8 67 1,544 247 5 1,282 10 November 1,419 231 11 84 1,745 85 5 1,644 11 December 1,539 309 13 94 1,955 94 5 1,844 12 Total 17,392 2,098 110 843 20,443 2,295 55 17,951 *143 1985 January 1,562 659 16 104 2,341 35 5 2,264 37 February 1,421 437 14 98 1,970 48 4 1,884 34 March 1,421 213 13 89 1,736 97 4 1,601 34 April 1,337 94 10 75 1,516 | | | | | | | | | 5 | | 12 |
| October 1,421 48 8 67 1,544 247 5 1,282 10 November 1,419 231 11 84 1,745 85 5 1,644 11 December 1,539 309 13 94 1,955 94 5 1,844 12 Total 17,392 2,098 110 843 20,443 2,295 55 17,951 *143 1985 January 1,562 659 16 104 2,341 35 5 2,264 37 February 1,421 437 14 98 1,970 48 4 1,884 34 March 1,421 213 13 89 1,736 97 4 1,601 34 April 1,337 94 10 75 1,516 207 5 1,272 32 June 1,274 33 10 63 1,380 <td< td=""><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | • | | | | | | | | | |
| November 1,419 231 11 84 1,745 85 5 1,644 11 December 1,539 309 13 94 1,955 94 5 1,844 12 Total 17,392 2,098 110 843 20,443 2,295 55 17,951 *143 1985 January 1,562 659 16 104 2,341 35 5 2,264 37 February 1,421 437 14 98 1,970 48 4 1,601 34 March 1,421 213 13 89 1,736 97 4 1,601 34 April 1,337 94 10 75 1,516 207 5 1,272 32 May 1,319 25 8 70 1,422 300 5 1,085 32 June 1,274 33 10 63 1,380 260 | | | | | | | | | | | |
| December 1,539 309 13 94 1,955 94 5 1,844 12 Total 17,392 2,098 110 843 20,443 2,295 55 17,951 *143 1985 January 1,562 659 16 104 2,341 35 5 2,264 37 February 1,421 437 14 98 1,970 48 4 1,884 34 March 1,421 213 13 89 1,736 97 4 1,601 34 March 1,421 213 13 89 1,736 97 4 1,601 34 March 1,421 213 13 89 1,736 97 4 1,601 34 May 1,319 25 8 70 1,422 300 5 1,085 32 June 1,274 33 10 63 1,380 260 <td></td> | | | | | | | | | | | |
| Total 17,392 2,098 110 843 20,443 2,295 55 17,951 *143 1985 January 1,562 659 16 104 2,341 35 5 2,264 37 February 1,421 437 14 98 1,970 48 4 1,884 34 March 1,421 213 13 89 1,736 97 4 1,601 34 April 1,337 94 10 75 1,516 207 5 1,272 32 May 1,319 25 8 70 1,422 300 5 1,085 32 June 1,274 33 10 63 1,380 260 5 1,084 31 July 1,316 45 10 60 1,431 309 6 1,084 32 August 1,324 50 11 58 1,443 277 | | | | | | | | | | | |
| 1985 January 1,562 659 16 104 2,341 35 5 2,264 37 February 1,421 437 14 98 1,970 48 4 1,884 34 March 1,421 213 13 89 1,736 97 4 1,601 34 April 1,337 94 10 75 1,516 207 5 1,272 32 May 1,319 25 8 70 1,422 300 5 1,085 32 June 1,274 33 10 63 1,380 260 5 1,084 31 July 1,316 45 10 60 1,431 309 6 1,084 32 August 1,324 50 11 58 1,443 277 5 1,129 32 September 1,309 20 9 63 1,401 270 4 1,096 31 October 1,364 69 12 73 | | | | | | | | | | • | |
| February 1,421 437 14 98 1,970 48 4 1,884 34 March 1,421 213 13 89 1,736 97 4 1,601 34 April 1,337 94 10 75 1,516 207 5 1,272 32 May 1,319 25 8 70 1,422 300 5 1,085 32 June 1,274 33 10 63 1,380 260 5 1,084 31 July 1,316 45 10 60 1,431 309 6 1,084 32 August 1,324 50 11 58 1,443 277 5 1,129 32 September 1,309 20 9 63 1,401 270 4 1,096 31 October 1,364 69 12 73 1,518 197 4 1,284 33 November 1,368 201 10 77 1,656 | 1985 | January | 1,562 | | 16 | | | | | - | |
| March 1,421 213 13 89 1,736 97 4 1,601 34 April 1,337 94 10 75 1,516 207 5 1,272 32 May 1,319 25 8 70 1,422 300 5 1,085 32 June 1,274 33 10 63 1,380 260 5 1,084 31 July 1,316 45 10 60 1,431 309 6 1,084 32 August 1,324 50 11 58 1,443 277 5 1,129 32 September 1,309 20 9 63 1,401 270 4 1,096 31 October 1,364 69 12 73 1,518 197 4 1,284 33 November 1,368 201 10 77 1,656 93 4 1, | | February | | | | | | | | | |
| April1,3379410751,51620751,27232May1,319258701,42230051,08532June1,2743310631,38026051,08431July1,3164510601,43130961,08432August1,3245011581,44327751,12932September1,309209631,40127041,09631October1,3646912731,51819741,28433November1,36820110771,6569341,52633December1,512526131062,1574342,07436 | | | 1,421 | 213 | | | | | | | |
| May1,319258701,42230051,08532June1,2743310631,38026051,08431July1,3164510601,43130961,08432August1,3245011581,44327751,12932September1,309209631,40127041,09631October1,3646912731,51819741,28433November1,36820110771,6569341,52633December1,512526131062,1574342,07436 | | | 1,337 | 94 | 10 | 75 | | | 5 | | 32 |
| June 1,274 33 10 63 1,380 260 5 1,084 31 July 1,316 45 10 60 1,431 309 6 1,084 32 August 1,324 50 11 58 1,443 277 5 1,129 32 September 1,309 20 9 63 1,401 270 4 1,096 31 October 1,364 69 12 73 1,518 197 4 1,284 33 November 1,368 201 10 77 1,656 93 4 1,526 33 December 1,512 526 13 106 2,157 43 4 2,074 36 | | • | | | | 70 | 1,422 | 300 | 5 | 1,085 | |
| August 1,324 50 11 58 1,443 277 5 1,129 32 September 1,309 20 9 63 1,401 270 4 1,096 31 October 1,364 69 12 73 1,518 197 4 1,284 33 November 1,368 201 10 77 1,656 93 4 1,526 33 December 1,512 526 13 106 2,157 43 4 2,074 36 | | | 1,274 | | | | | | 5 | 1,084 | 31 |
| September 1,309 20 9 63 1,401 270 4 1,096 31 October 1,364 69 12 73 1,518 197 4 1,284 33 November 1,368 201 10 77 1,656 93 4 1,526 33 December 1,512 526 13 106 2,157 43 4 2,074 36 | | | | | | | | | | | |
| October 1,364 69 12 73 1,518 197 4 1,284 33 November 1,368 201 10 77 1,656 93 4 1,526 33 December 1,512 526 13 106 2,157 43 4 2,074 36 | | | | | | | | | | | |
| November 1,368 201 10 77 1,656 93 4 1,526 33 December 1,512 526 13 106 2,157 43 4 2,074 36 | | | | | 9 | | | | | 1,096 | |
| December 1,512 526 13 106 2,157 43 4 2,074 36 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | 16,527 | 2,373 | 136 | 936 | 19,971 | 2,135 | 55 | 17,383 | 397 |

¹Monthly and annual data for 1980 through 1984 include underground storage and liquefied natural gas storage. All other data include underground storage only. Computation procedures are discussed in Note 8 on the last two pages of this section.
 ²For definitions and further explanations, see Notes on the last two pages of this section.
 ³Data for 1978 through 1982 do not include intransit receipts and deliveries.
 ⁴May include unknown quantities of nonhydrocarbon gases.
 *See Note 7 on the last two pages of this section.
 NA – Note available.

NA=Not available.

Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent,rounding.
• Italics denote estimated data. Data for 1973 through 1984 are final. All other data are preliminary unless otherwise indicated. Sources: • See the last page of this section.

Natural Gas¹ Consumption

| | | Lease and Plant Fuel | Pipeline Fuel | Residential | Commercial ² | Industrial | Electric Utilities | Total | – Total Consumption |
|------|---------------------|-------------------------|------------------|-------------|-------------------------|---------------------|-----------------------|------------------------|---------------------------|
| | | | | | Billion | cubic feet | | | • |
| 1973 | Total | 1,496 | 728 | 4,879 | 2,597 | 8,689 | 3,660 | 19,825 | 22,049 |
| 1974 | Total | 1,477 | 669 | 4,786 | 2,556 | 8,292 | 3,443 | • | • |
| 1975 | Total | 1,396 | 583 | | | | | 19,077 | 21,223 |
| 1976 | Total | | | 4,924 | 2,508 | 6,968 | 3,158 | 17,558 | 19,538 |
| 1976 | | 1,634 | 548 | 5,051 | 2,668 | 6,964 | 3,081 | 17,764 | 19,946 |
| | Total | 1,659 | 533 | 4,821 | 2,501 | 6,815 | 3,191 | 17,329 | 19,521 |
| 1978 | Total | 1,648 | 530 | 4,903 | 2,601 | 6,757 | 3,188 | 17,449 | 19,627 |
| 1979 | Total | 1,499 | 601 | 4,965 | 2,786 | 6,899 | 3,491 | 18,141 | 20,241 |
| 1980 | Total | 1,026 | 635 | 4,752 | 2,611 | 7,172 | 3,682 | 18,216 | 19,877 |
| 1981 | Total | 928 | 642 | 4,546 | 2,520 | 7,128 | 3,640 | 17,834 | 19,404 |
| 1982 | Total | 1,109 | 596 | 4,633 | 2,606 | 5,831 | 3,226 | 16,295 | 18,001 |
| 1983 | January | 89 | 57 | 718 | 366 | 537 | 208 | 1,829 | 1,975 |
| | February | 79 | 48 | 694 | 360 | 284 | 177 | 1,515 | 1,642 |
| | March | 81 | 46 | 541 | 285 | 430 | 208 | 1,464 | 1,591 |
| | April | 77 | 40 | 464 | 241 | 348 | 203 | 1,256 | 1,373 |
| | May | 77 | 33 | 277 | 151 | 362 | 218 | 1,008 | 1,118 |
| | June | 74 | 28 | 181 | 110 | 333 | 248 | 872 | 974 |
| | July | 78 | 30 32 | 134 | 100 | 378 | 314 | 926 | 1,034 |
| | August September | 81 79 | 32 | 123 | 103 105 | 421 | 352 | 999 | 1,112 |
| | October | 79 84 | 36 | 128 179 | 119 | 429 577 | 299 251 | 961 1,126 | 1,071 1,246 |
| | November | 85 | 44 | 330 | 185 | 645 | 214 | 1,120 | 1,503 |
| | December | 93 | 64 | 612 | 308 | 896 | 218 | 2,034 | 2,191 |
| | Total | 978 | 490 | 4,381 | 2,433 | 5,643 | 2,911 | 15,367 | 16,835 |
| 1984 | January | 102 | 67 | 883 | 434 | 559 | 215 | 2,091 | 2,260 |
| | February | 88 | 51 | 699 | 353 | 361 | 187 | 1,600 | 1,739 |
| | March | 91 | 55 | 605 | 311 | 583 | 206 | 1,705 | 1,851 |
| | April | 89 | 43 | 464 | 243 | 397 | 220 | 1,324 | 1,456 |
| | Мау | 89 | 37 | 287 | 159 | 427 | 265 | 1,138 | 1,264 |
| | June | 86 | 34 | 170 | 109 | 443 | 298 | 1,020 | 1,140 |
| | July | 89 | 34 | 128 | 97 | 464 | 349 | 1,038 | 1,161 |
| | August | 88 | 35 | 119 | 98 | 482 | 350 | 1,049 | 1,172 |
| | September | 84 | 33 | 127 | 101 | 502 | 291 | 1,021 | 1,138 |
| | October November | 88 | 38 | 183 | 128 | 575 | 270 | 1,156 | 1,282 |
| | December | 88 95 | 48 54 | 323 567 | 195 296 | 745 | 245 | 1,508 | 1,644 |
| | Total | 1,077 | 54 529 | 4,555 | 290 2,524 | 615 6,153 | 217 3,111 | 1,695 16,345 | 1,844 17,951 |
| 1985 | January | 97 | 67 | 742 | 369 | 764 | 225 | 2,100 | 2,264 |
| | February | 88 | 55 | 836 | 407 | 297 | 201 | 1,741 | 1,884 |
| | March | 88 | 47 | 569 | 289 | 402 | 206 | 1,466 | 1,601 |
| | April | 83 | 37 | 397 | 204 | 318 | 233 | 1,152 | 1,272 |
| | May | 82 | 32 | 213 | 129 | 393 | 236 | 971 | 1,085 |
| | June | 79 | 32 | 157 | 102 | 433 | 281 | 973 | 1,084 |
| | July | 81 | 32 | 130 | 97 | 409 | 335 | 971 | 1,084 |
| | August | 82 | 33 | 119 | 94 | 447 | · 354 | 1,014 | 1,129 |
| | September | 81 | 32 | 128 | 97 | 485 | 273 | 983 | 1,096 |
| | October | 85 | 38 | 187 | 123 | 603 | 248 | 1,161 | 1,284 |
| | November | 85 | 45 | 294 | 178 | 694 | 230 | 1,396 | 1,526 |
| | Year to Date | 931 | 450 | 3,772 | 2,089 | 5,245 | 2,822 | 13,928 | 15,309 |

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¹Includes supplemental gaseous fuels.
²Includes deliveries to local, State, and Federal agencies engaged in nonmanufacturing activities.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data for 1973 through December 1984 are final. All other data are preliminary unless otherwise indicated.
Sources: • See the last page of this section.

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Underground Natural Gas Storage—All Operators

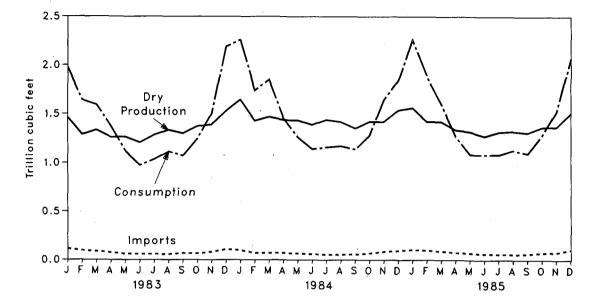
| | | Natural Gas in Underground Storage at End of Period | | Change in Working Gas from Same Period Previous Year | | Storage Activity | | | |
|------|----------------------|---|----------------|--|--------------------|------------------|------------|-------------|------------------|
| | | Base Gas | Working Gas | Total | Volume | Percent | Injections | Withdrawals | Net ² |
| | | | | Volumes in | billion cubic feet | t | | | |
| 1973 | Total | 2,864 | 2,034 | 4,898 | 305 | 17.6 | 1,974 | 1,533 | 441 |
| 1974 | Total | 2,912 | 2,050 | 4,962 | 16 | 0.8 | 1,784 | 1,701 | 83 |
| 1975 | Total | 3,162 | 2,212 | 5,374 | 162 | 7.9 | 2,104 | 1,760 | 344 |
| 1976 | Total | 3,323 | 1,926 | 5,250 | -286 | -12.9 | 1,756 | 1,921 | -165 |
| 1977 | Total | 3,391 | 2,475 | 5,866 | 549 | 28.5 | 2,307 | 1,750 | 557 |
| 1978 | Total | 3,473 | 2,547 | 6,020 | 72 | 2.9 | 2,278 | 2,158 | 120 |
| 1979 | Total | 3,553 | 2,753 | 6,306 | 207 | 8.1 | 2,295 | 2,047 | 248 |
| 1980 | Total | 3,642 | 2,655 | 6,297 | -99 | -3.6 | 1,896 | 1,910 | -14 |
| 1981 | Total | 3,752 | 2,817 | 6,569 | 162 | 6.1 | 2,180 | 1,887 | 293 |
| 1982 | Total | 3,808 | 3,071 | 6,879 | 255 | 9.0 | 2,399 | 2,094 | 306 |
| 1983 | January | 3,813 | 2,644 | 6.457 | 462 | 21.2 | 24 | 449 | -424 |
| | February | 3,811 | 2,356 | 6,167 | 569 | 31.9 | 36 | 325 | -289 |
| | March | 3,812 | 2,148 | 5,959 | 544 | 33.9 | 59 | 266 | -207 |
| | April | 3,818 | 2,074 | 5,893 | 398 | 23.8 | 82 | 160 | -78 |
| | May | 3,818 | 2,222 | 6,041 | 188 | 9.3 | 191 | 40 | 151 |
| | June | 3,819 | 2,454 | 6,272 | 85 | 3.6 | 255 | 22 | 234 |
| | July | 3,826 | 2,696 | 6,522 | -8 | -0.3 | 268 | 25 | 243 |
| | August | 3,823 | 2,908 | 6,732 | -89 | -3.0 | 247 | 35 | 212 |
| | September | 3,823 | 3,141 | 6,964 | -110 | -3.4 | 258 | 26 | 232 |
| | October | 3,825 | 3,270 | 7,095 | -94 | -2.8 | 171 | 40 | 131 |
| | November | 3,841 | 3,175 | 7,015 | -134 | -4.1 | 80 | 158 | -78 |
| | December | 3,847 | 2,595 | 6,442 | -476 | -15.5 | 29 | 597 | -567 |
| | Total | | | | | | 1,700 | 2,142 | -442 |
| 1984 | January | 3,847 | 2,091 | 5,937 | -553 | -20.9 | 54 | 571 | -517 |
| | February | 3,828 | 1,876 | 5,704 | -480 | -20.4 | 60 | 305 | -244 |
| | March | 3,824 | 1,572 | 5,396 | -575 | -26.8 | 48 | 365 | -317 |
| | April | 3,822 | 1,620 | 5,442 | -454 | -21.9 | 144 | 100 | 44 |
| | May June | 3,827 3,828 | 1,843 | 5,670 | -379 | -17.1 | 254 | 30 | 244 |
| | July | 3,829 | 2,141 2,456 | 5,969 | -313 | -12.7 | 323 | 27 | 296 |
| | August | 3,829 | 2,740 | 6,285 6,569 | -239 -168 | -8.9 -5.8 | 346 | 28 | 317 |
| | September | 3,829 | 2,996 | 6,825 | -144 | -5.8 -4.6 | 318 289 | 30 30 | 288 259 |
| | October | 3,837 | 3,175 | 7,011 | -95 | -2.9 | 209 | 47 | 195 |
| | November | 3,900 | 3,015 | 6,915 | -160 | -5.0 | 83 | 227 | -145 |
| | December | 3,830 | 2,876 | 6,706 | 281 | 10.8 | 92 | 304 | -213 |
| | Total | | | ., | | | 2,252 | 2,064 | 188 |
| 1985 | January | 3,841 | 2,242 | 6,083 | 151 | 7.2 | 35 | 659 | -623 |
| | February | 3,841 | 1,853 | 5,694 | -23 | -1.2 | 48 | 437 | -389 |
| | March | 3,835 | 1,743 | 5,578 | 171 | 10.8 | 97 | 213 | -116 |
| | April | 3,831 | 1,859 | 5,691 | 239 | 14.8 | 207 | 94 | 113 |
| | May | 3,837 | 2,129 | 5,965 | 286 | 15.5 | 300 | 25 | 275 |
| | June | 3,839 | 2,351 | 6,191 | 211 | 9.8 | 260 | 33 | 227 |
| | July | 3,849 | 2,605 | 6,454 | 149 | 6.1 | 309 | 45 | 264 |
| | August | 3,849 | 2,832 | 6,681 | 92 | 3.4 | 277 | 50 | 227 |
| | September October | 3,849 | 3,082 | 6,931 | 85 | 2.9 | 270 | 20 | 250 |
| | November | 3,851 | 3,207 | 7,059 | 33 | 1.0 | 197 | 69 | 128 |
| | December | 3,847 3,842 | 3,087 2,609 | 6,934 | 72 | 2.4 | 93 | 201 | -108 |
| | Total | 0,042 | 2,009 | 6,451 | -267 | -9.3 | 43 | 526 | -483 |
| | | | | | | | 2,135 | 2,373 | -238 |

¹Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1978—6,890; 1979—6,929; 1980—7,434; 1981—7,805; 1982—7,915; 1983—7,985; and 1984—8,043. Current total capacity is 8,087. ²Positive numbers indicate injections are greater than withdrawals. Negative numbers indicate withdrawals are greater than injections. Net injections or withdrawals may not equal the difference between applicable ending stocks. See Note 8 on the last two pages of this section. Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. • Data for 1978 through 1984 are final. All other data are preliminary unless otherwise indicated. Sources: • See the last page of this section.

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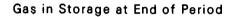
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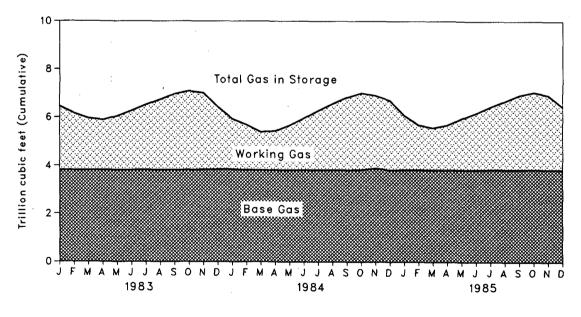
Overview



4 4

Consumption, Dry Production, and Imports





Notes and Sources for the Natural Gas Section

Notes

1. Nonhydrocarbon Gases Removed: Annual data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are from the Energy Information Administration (EIA) *Natural Gas Annual 1984*. These data are not available for periods prior to 1980. For 1984, of the 32 producing States, 24 reported data on nonhydrocarbon gases removed. These 24 States accounted for 57 percent of total 1984 gross withdrawals. In addition, gross withdrawals data from two States, which together accounted for 39 percent of the 1984 total production, did not include all or most of the nonhydrocarbon gases removed on leases. No estimates are made for the two States not reporting nonhydrocarbon gases removed. For further information, see the EIA *Natural Gas Monthly*.

Monthly data are reported by two States and computed for seven States. All monthly data are considered preliminary until after publication of the EIA *Natural Gas Annual* for that year. For further information on methods of estimating preliminary monthly data, see the EIA *Natural Gas Monthly*.

Monthly data are revised and considered final after publication of the EIA *Natural Gas Annual* by proportionally allocating the differences between annual data published in the EIA *Natural Gas Annual* and the sum of the preliminary monthly data (January-December).

2. Production: Annual data. Final annual data are from the EIA Natural Gas Annual 1984.

Estimated Monthly Data. All data for the two most recent months presented are estimated. Some of the data for earlier months are also estimated or computed. For a discussion of computation and estimation procedures, see the EIA *Natural Gas Monthly.*

Preliminary monthly data. All monthly data are considered preliminary until after publication of the EIA *Natural Gas Annual* for that year. Preliminary monthly data are gathered from reports from the Interstate Oil Compact Commission and the U.S. Minerals Management Service. Volumetric data are converted, as necessary to a standard 14.73 psia pressure base. Unless there are major changes, data are not revised until after publication of the EIA *Natural Gas Annual*.

Final monthly data. The difference between annual production data published in the EIA *Natural Gas Annual 1984* and the sum of preliminary monthly data (January-December) is allocated proportionally to the preliminary monthly data.

3. Extraction Loss: Extraction loss is the reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants. Annual data for extraction loss are from the EIA Natural

Annual data for extraction loss are from the EIA Natural Gas Annual for which they have been estimated based on the type and quantity of liquid products extracted from the gas stream and the calculated volume of such products at standard conditions. For a detailed explanation of the calculations used to derive estimated extraction losses, see the EIA Natural Gas Annual.

Preliminary monthly 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.

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

4. Supplemental Gaseous Fuels: Supplemental gaseous fuels are mainly synthetic natural gas, propane-air, and refinery gas. Other gases may also be included such as, coke oven gas, biomass gas, manufactured gas, and air injected for Btu stabilization.

Annual data beginning with 1980 are from the EIA *Natural Gas Annual 1984*. Unknown quantities of supplemental gaseous fuels are included in consumption data for 1979 and earlier years.

All monthly data are considered preliminary until after the publication of the EIA Natural Gas Annual for that year. 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 monthy supplemental gaseous fuels figure.

5. Imports and Exports: The United States imports natural gas via pipeline from Mexico and Canada, and liquefied natural gas via tanker from Algeria. The United States exports natural gas via pipeline to Mexico and Canada and liquefied natural gas via tanker to Japan.

exports natural gas via pipeline to Mexico and Cariada and liquefied natural gas via tanker to Japan. Annual and final monthly data are published from the annual Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," which requires data to be reported by month for the calendar year.

Preliminary monthly data are EIA estimates. For a discussion of estimation procedures, see the EIA Natural Gas Monthly. Preliminary data are revised after the publication of the EIA U.S. Imports and Exports of Natural Gas for that year.

6. Consumption: Consumption includes pipeline fuel use, lease and plant fuel use, and deliveries to consuming sectors.

All final data are from the EIA, Natural Gas Annual. All monthly data are considered preliminary until after publication of the EIA Natural Gas Annual. For more detailed information on the methods of estimating preliminary and final monthly data, see the EIA Natural Gas Monthly.

7. Unaccounted for: The "Unaccounted for" category represents the following: (1) quantities lost; (2) the net result of flow data metered at varying temperature and pressure conditions and converted to a standard temperature and pressure base; (3) metering inaccuracies; (4) differences between billing cycle and calendar period time frames; (5) the effect of variations in company accounting and billing practices; and (6) imbalances from EIA's merger of data reporting systems which vary in scope, format, definitions, and type of respondents. The increase of almost 0.2 trillion cubic feet (Tcf) in the "Unaccounted for" category in 1983 followed by a decline of 0.5 trillion cubic feet in 1984 reflected unusually large differences resulting from the use of the annual billing cycle (essentially December 15, through the following December 14) consumption data in conjunction with calendar year supply data. Record cold temperatures during the last half of December 1983 resulted in a reported 0.3 Tcf increase in net withdrawals from underground storage for peak shaving as compared with the same period in 1984, but the effect of this cold weather was reflected primarily in 1984 consumption data. For underground storage data, see Table F2 in the May 1985 *Natural Gas Monthly*, which was published in July 1985.

8. Natural Gas Storage: Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals from the quantity in storage at the end of the previous period. This difference is due to changes in the quantity of native gas included in the base gas and/or losses in base gas due to migration from storage reservoirs.

All monthly data concerning underground storage are collected from the essentially identical Forms FPC-8 and EIA-191. Monthly data are revised after publication of the EIA Underground Natural Gas Storage in the United States for that heating year (April through March). In addition, injection and withdrawal data from the FPC-8/EIA-191 survey are adjusted to correspond to data from Form EIA-176 following publication of the EIA Natural Gas Annual.

The final monthly and annual storage and withdrawal data for 1980 through 1984 include both underground and liquefied natural gas (LNG) storage. Underground storage data are taken from the FPC-8/EIA-191 survey in the following manner. 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.

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Notes and Sources for the Natural Gas Section (continued)

Sources

Production: 1973 through 1984: Energy Information Admin-istration (EIA), *Natural Gas Annual 1984*; January 1985 forward: State reports to the Interstate Oil Compact Com-mission, data from the U.S. Minerals Management Service, and EIA estimates for States that do not report monthly data on a regular or timely basis data on a regular or timely basis.

Extraction Loss, Consumption, and Unaccounted For: 1973 through 1984: EIA, Natural Gas Annual 1984; January 1985 forward: EIA computations.

Withdrawals from and Additions to Storage: 1973 through 1984: EIA, *Natural Gas Annual 1984;* January 1985 forward: Form FPC-8 and Form EIA-191, "Underground Gas Storage Report."

Supplemental Gaseous Fuels: 1980 through 1984: EIA, Natural Gas Annual 1984; January 1985 forward: EIA computations.

Imports and Exports: 1973 through 1984: Form FPC-14, "Imports and Exports of Natural Gas"; January 1985 forward: EIA computations.

End-Use Consumption: • All data except electric utility-1973 through 1984: EIA, Natural Gas Annual, 1984; January 1985 forward: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and EIA computations.

computations.
Electric utility data—EIA, Form 759, "Monthly Power Plant Report" (formerly Form FPC-4).
Underground Storage: 1973 and 1974: American Gas Association, *Gas Facts;* 1975 through 1979: EIA, Form FPC-8 and Form EIA-191, and the *Natural Gas Annual;* 1980 forward: EIA, Form FPC-8, Form EIA-191, and Form 176, "Annual Report of Natural and Supplemental Gas Supply and Disposition " and Disposition.'

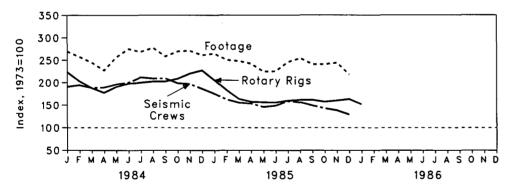
Oil and Gas Resource Development

In December 1985, the 323 crews engaged in seismic exploration were 30.7 percent fewer than those in December 1984. The 36 marine vessels were 30.8 percent fewer and the 287 land crews were 30.7 percent fewer than those in December 1984. During 1985, seismic crews averaged 378, 23.5 percent fewer than the crews in 1984, the lowest average since 1978 and 44.5 percent lower than the 1981 record high of 681 crews. During 1985, marine vessels were 8.2 percent fewer, while land crews were 25.2 percent fewer than those in 1984.

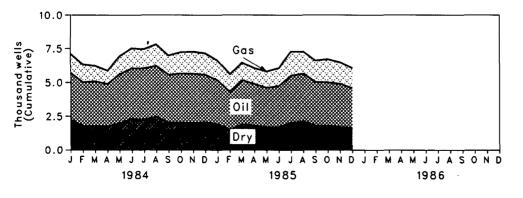
The January 1986 rotary rig count of 1,810 was 26.2 percent less than the count in January 1985. The 175 rigs operating offshore were 27.7 percent fewer and the 1,635 rigs onshore were 26.0 percent fewer than those operating in January 1985. Rotary rig activity during 1985 averaged 1,980 rigs, 18.5 percent below the activity in 1984 and 50.1 percent below the 1981 record-high average of 3,970 rigs. Offshore rigs during 1985 were 3.3 percent fewer and onshore rigs were 19.9 percent fewer than those during 1984. Exploratory and development well completions during December 1985 were an estimated 6,070, 15.1 percent less than the completions in December 1984. Oil well completions were an estimated 2,920, 16.8 percent fewer than in the previous December. The 1,480 gas well completions were 5.7 percent less than in December 1984. Total footage drilled in December 1985 was 25.8 million feet, a decrease of 16.5 percent compared with the footage drilled in December 1984.

Total exploration and development well completions in 1985 were an estimated 77,120, 8.1 percent less than completions in 1984 and a 14.4-percent drop from the record 90,130 in 1981. Oil well completions were an estimated 37,920 in 1985, 10.4 percent fewer than in 1984. The 17,460 estimated gas well completions were 3.9 percent more than the 16,810 estimated in 1984 and the only gain in resource development data in 1985. Total footage drilled in 1985 was 336.9 million feet, a decrease of 7.8 percent compared with the footage drilled in 1984.

Seismic Crews and Rotary Rigs in Operation, and Footage Drilled



Exploratory and Development Well Completions



Monthly Energy Review November 1985 Energy Information Administration

Oil and Gas Resource Development

Seismic Crews and Rotary Rigs

| | | Cro Seis | ews Engageo smic Explora | t in tion | Rotar | Rotary Rigs in Operation ¹ | | | |
|------|----------------------------------|-----------------|-----------------------------|-----------------|-------------------|---------------------------------------|-----------------------|--|--|
| | • . | Offshore | Onshore | Total | Offshore | Onshore | Total | | |
| | | Monthly average | | | N | Weekly average | | | |
| 1973 | Average | 23 | 227 | 250 | 84 | 1,110 | 1,194 | | |
| 1974 | Average | 31 | 274 | 305 | 94 | 1,378 | 1,472 | | |
| 1975 | Average | 30 | 254 | 284 | 106 | 1,554 | 1,660 | | |
| 1976 | Average | 25 | 237 | 262 | 129 | 1,529 | 1,658 | | |
| 1977 | Average | 27 | 281 | 308 | 167 | 1,834 | 2,001 | | |
| 1978 | Average | 25 | 327 | 352 | 185 | 2,074 | 2,259 | | |
| 1979 | Average | 30 | 370 | 400 | 207 | 1,970 | 2,177 | | |
| 1980 | Average | 37 | 493 | 530 | 231 | 2,678 | 2,909 | | |
| 1981 | Average | 44 | 637 | 681 | 256 | 3,714 | 3,970 | | |
| 1982 | Average | 57 | 531 | 588 | 243 | 2,862 | 3,105 | | |
| 1983 | January | 49 | 407 | 456 | 218 | 2,404 | 2,622 | | |
| | February | 47 | 404 | 451 | 216 | 1,976 | 2,192 | | |
| | March | 45 | 402 | 447 | 210 | 1,793 | 2,003 | | |
| | April | 39 | 410 | 449 | 213 | 1,633 | 1,846 | | |
| | May | 3 9 | 410 | 449 | 209 | 1,717 | 1,926 | | |
| | June | 43 | 428 | 471 | 202 | 1,777 | 1,979 | | |
| | July | 46 | 437 | 483 | 178 | 1,861 | 2,039 | | |
| | August | 49 | 435 | 484 | 181 | 1,975 | 2,156 | | |
| | September | 57 | 444 | 501 | 175 | 2,077 | 2,252 | | |
| | October | 50 | 448 | 498 | 177 | 2,205 | 2,382 | | |
| | November December | 49 48 | 446 445 | 495 493 | 159 210 | 2,413 2,570 | 2,572 2,780 | | |
| | Average | 48 | 4 45 426 | 433 | 196 | 2,033 | 2,780 | | |
| 1984 | January | ···· 50 | 427 | 477 | 216 | 2,450 | 2,666 | | |
| | February | 53 | 433 | 486 | 202 | 2,221 | 2,423 | | |
| | March | 47 | 424 | 471 | 198 | 2,047 | 2,245 | | |
| | April | 50 | 423 | 473 | 203 | 1,917 | 2,120 | | |
| | May | 46 | 444 | 490 | 202 | 2,075 | 2,277 | | |
| | June | 45 | 455 | 500 | 205 | 2,158 | 2,363 | | |
| | July | 47 | 482 | 529 | 206 | 2,180 | 2,386 | | |
| | August | 53 | 470 | 523 | 216 | 2,201 | 2,417 | | |
| | September | 52 | 472 | 524 | 214 | 2,206 | 2,420 | | |
| | October | 48 | 449 444 | 497 493 | 223 232 | 2,269 | 2,492 | | |
| | November December | 49 52 | 444 414 | 493 | 232 242 | 2,397 2,471 | 2,629 2,713 | | |
| | Average | · 49 | 445 | 494 | 213 | 2,215 | 2,428 | | |
| 1985 | January | 46 | 393 | 439 | 242 | 2,210 | 2,452 | | |
| | February | 46 | 360 | 406 | 233 | 1,955 | 2,188 | | |
| | March | 48 | 340 | 388 | 223 | 1,732 | 1,955 | | |
| | April | 47 | 336 | 383 | 210 | 1,667 | 1,877 | | |
| | May | . 41 | 323 | 364 | 200 | 1,665 | 1,865 | | |
| | June | 47 | 324 | 371 | 203 | 1,653 | 1,858 | | |
| | July | 47 | 350 | 397 | 194 | 1,715 | 1,909 | | |
| | August | 49 | 341 | 390 | 197 | 1,734 | 1,931 | | |
| | September | 49 | 323 | 372 | 197 | 1,733 | 1,930 | | |
| | October | 45 | 312 | 357 346 | 195 187 | 1,684 1,725 | 1,879 1,912 | | |
| | November | 41 36 | 305 287 | 346 323 . | 190 | 1,760 | 1,950 | | |
| | December Average ² | · • 45 | 333 | 378 | 206 | 1,774 | 1,980 | | |
| | | | | N 1 - | | 4 005 | 1.010 | | |
| 1986 | January Average ² | NA NA: | NA NA | NA NA | 175 175 | 1,635 1,635 | 1,810 1,810 | | |

¹Monthly data are averages of 4- or 5-week reporting periods and are not calendar months. ²Average of available data. NA=Not available. Note: • Geographic coverage is the 50 States and the District of Columbia. Sources: • See the last page of this section.

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Oil and Gas Resource Development

Exploratory and Development Wells and Footage Drilled

| | | Oil | Gas | Dry | Total | Total Footage ¹ |
|------|----------------------|---------------|---------------|-------------------|---------------|----------------------------|
| | | | Thousa | and wells | | Million feet |
| 1973 | Total | 10.25 | 6.97 | 10.47 | 27.69 | 139.42 |
| 1974 | Total | 13.66 | 7.17 | 12.20 | 33.03 | 153.79 |
| 1975 | Total | 16.98 | 8.17 | 13.74 | 38.89 | 181.05 |
| 1976 | Total | 17.70 | 9.44 | 13.80 | 40.94 | 187.29 |
| 1977 | Totai | 18.70 | 12.12 | 15.04 | 45.86 | 215.70 |
| 1978 | Total | 19.06 | 14.40 | 16.59 | 50.05 | 238.39 |
| 1979 | Total | 20.70 | 15.17 | 16.04 | 51.91 | 243.69 |
| 1980 | Total | 32.24 | 17.19 | 20.30 | 69.73 | 312.03 |
| 1981 | Total | 42.91 | 19.97 | 27.25 | 90.13 | 409.13 |
| 1982 | Total | 38.82 | 18.80 | 25.97 | 83.59 | 375.77 |
| 1983 | January | 3.47 | 1.44 | 2.13 | 7.04 | 29.74 |
| | February | 2.59 | 1.10 | 1.74 | 5.43 | 23.72 |
| | March | 2.93 | 1.09 | 1.88 | 5.90 | 25.93 |
| | April | 2.61 | 0.89 | 1.62 | 5.12 | 22.60 |
| | May | 2.69 | 0.95 | R1.83 | R5.47 | R23.96 |
| | June | 2.91 | 1.06 | 1.89 | 5.86 | 23.76 |
| | July | 3.09 | 1.11 | 1.97 | 6.17 | 24.79 |
| | August | 3.43 | 1.35 | 2.09 2.00 | 6.87 | 27.08 |
| | September October | 3.27 3.34 | 1.28 1.43 | 2.18 | 6.55 6.95 | 26.77 |
| | November | 3.34 | 1.43 | 2.18 | 6.75 | 29.09 |
| | December | R3.05 | R1.35 | R1.95 | R6.35 | R27.42 |
| | Total | R36.70 | R14.34 | R23.42 | R74.46 | R313.42 |
| 1984 | January | 3.45 | 1.41 | 2.25 | 7.11 | 31.90 |
| | February | 3.24 | 1.31 | 1.78 | 6.33 | 28.50 |
| | March | 3.31 | 1.14 | 1.78 _. | 6.23 | . 28.98 |
| | April | 3.14 | 0.98 | 1.75 | 5.87 | 26.03 |
| | May | R3.63 | 1.31 | 1.99 | R6.93 | R30.41 |
| | June | 3.73 | 1.47 | 2.32 | 7.52 | 31.53 |
| | July | 3.78 | 1.41 | 2.26 | 7.45 | 31.79 |
| | August September | 3.76 3.52 | 1.59 1.42 | 2.46 2.05 | 7.81 | 32.87 |
| | October | 3.61 | 1.57 | 2.05 | 6.99 7.23 | 29.64 31.93 |
| | November | 3.65 | 1.63 | 1.99 | 7.23 | 31.07 |
| | December | R3.51 | R1.57 | R2.07 | R7.15 | R30.94 |
| | Total | R42.33 | R16.81 | R24.75 | R83.89 | R365.59 |
| 1985 | January | 3.25 | 1.45 | 1.92 | 6.62 | 31.38 |
| | February | 2.78 | 1.31 | 1.52 | 5.61 | 26.79 |
| | March | 3.27 | 1.28 | 1.91 | 6.46 | 29.38 |
| | April | 3.08 | 1.17 | 1.82 | 6.07 | 27.75 |
| | Мау | 2.91 | 1.21 | 1.70 | 5.82 | 26.59 |
| | June | R3.04 | R1.33 | R1.70 | R6.07 | R25.79 |
| | July | 3.49 | 1.76 | 2.03 | 7.28 | R29.12 |
| | August | 3.53 | 1.62 | 2.13 | 7.28 | 30.15 |
| | September | 3.24 | 1.57 | 1.81 | 6.62 | 27.60 |
| | October November | 3.21 R3.20 | 1.70 R1.58 | 1.81 | 6.72 P6.50 | 28.54 |
| | December | 2.92 | 1.48 | R1.72 1.67 | R6.50 6.07 | 27.99 25.84 |
| · | Year to Date | 37.92 | 17.46 | 21.74 | 77.12 | 336.92 |

¹Data exclude service wells and stratigraphic and core tests. R=Revised data.

Note: • Geographic coverage is the 50 States and the District of Columbia.
• Due to the method of estimation, data shown on this page are frequently revised. See the last page of this section for further explanation.

Source: • See the last page of this section.

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Notes and Sources for the Oil and Gas Resource Development Section

Notes

Beginning in the March 1985 Monthly Energy Review (MER), the Energy Information Administration (EIA) revised the exploratory and development wells drilled data series. In order to present a consistent series, historical as well as current statistics were adjusted.

In previous issues, the MER published statistics based on data on well completions reported to the American Petroleum Institute during a given month, as opposed to data on wells actually completed during the month. Because of the time lag from date of well completion to date of reporting, data on well completions reported are not as accurate an indicator of drilling activity as are data on well completions. For example, during 1982 well completions reported continued to rise even though the number of wells actually completed fell. Starting in the March 1985 issue of the MÉR, published figures have been EIA estimates of the number of wells actually completed in a given month and are shown in thousands, rounded to two decimal places. The associated footage drilled is shown in millions, also rounded to two decimal places.

The EIA estimates are calculated using an adjustment process that imputes total well counts and footage by type and class based on partial counts of well completions available from the reported data. That is, based on statistical analysis of the incomplete reported data, the process imputes the missing portions to determine values for total well completions and footage. Estimates for a given month are first published in the MER for that month, that is,

estimates for June 1984 are first published in the June 1984 MER. Revisions to the estimates are scheduled for the 6th, 12th, and 24th months following initial publication, as newly reported data refine the accuracy of the estimate. Unsched-uled revisions to the published data will also be made when the latest estimate differs by more than 15 percent during the first 5 months, more than 10 percent during the next 6 months, more than 5 percent during the following 6 months, or more than 2 percent thereafter through 5 years. After 5 years, the actual reported data will be published.

The three well types considered are oil, gas, and dry. By convention, wells with both oil and gas zones are categorized as oil. Well classes are either development or exploratory; wells in any other class have been deleted. Exploratory well categories considered are new field wildcat, new pool wildcat, deeper pool test, shallower pool test, or extension (American Association of Petroleum Geologists well classification codes 1 through 5).

Additional information may be obtained from "Estimating Well Completions," the feature article published in the March 1985 *Monthly Energy Review*.

Sources

Crews Engaged: Society of Exploration Geophysicists, "Monthly Seismic Crew Count" and annual reports pub-lished in their bulletins, *Geophysics* and *Leading Edge*.
 Rotary Rigs: Hughes Tool Company, "Rotary Rigs Running—by State."
 Wells and Footage Drilled: ElA computations based and Wells and Footage Drilled: ElA computations based and

· Wells and Footage Drilled: EIA computations based on well reports submitted to the American Petroleum Institute.

Coal

Coal production in December 1985 totaled 70.3 million short tons, 6.5 million short tons (10.2 percent) above the amount produced in December 1984. The preliminary U.S. coal production total for 1985 is 886.1 million short tons. This ranks as the second highest level of U.S. coal production, only 1.1 percent below the all-time record of 895.9 million short tons set in 1984. In 1985, Kentucky continued as the leading coal-producing State, mining 161.8 million short tons, or 18.3 percent of the U.S. total. Wyoming rose to second place with a total of 137.8 million short tons. West Virginia's output of 127.3 million short tons ranked third. Although no coal was mined in Georgia in 1985, the number of coalproducing States remained at 26 because commercial coal (lignite) production began in Louisiana during the year. Coal production from mines east of the Mississippi River decreased to 569.2 million short tons in 1985 from 587.6 million short tons in 1984. Production decreases in 7 of the 10 coal-producing States in the region more than offset increases totaling 6.4 million short tons in Kentucky, Virginia, and Tennessee. West of the Mississippi River, coal production rose to 316.9 million short tons in 1985 from 308.3 million short tons in 1984. Among the region's 16 coal-producing States, production increased substantially in Wyoming, North Dakota, and Texas.

Electric utility coal consumption in November 1985 totaled 54.3 million short tons. Although this represents the fourth consecutive monthly decline from a high of 64.3 million short tons in July, the amount was virtually the same as that in November 1984.

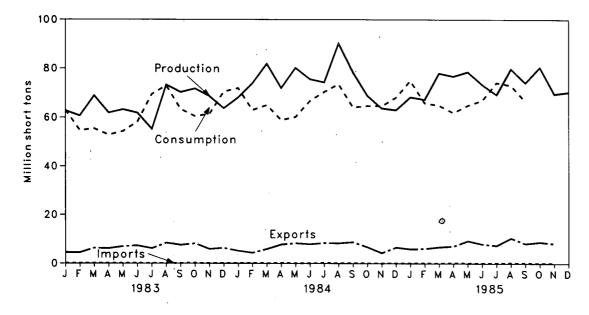
Electric utility coal stocks at the end of November 1985 totaled 164.1 million short tons. This contrasts with the 182.1 million short tons of coal on hand at the end of November 1984, when stockpiles were still unusually high following a build up earlier in the year as a precaution against a major coalminers' strike.

Coal exports in November 1985 totaled 8.1 million short tons. Coal exports from January through November 1985 totaled 85.5 million short tons, which were 14.0 percent above the 75.0 million short tons exported in the same period of 1984.

Coal imports in November 1985 totaled 111,000 short tons, which were 63.2 percent above the 68,000 short tons imported in November 1984. Coal imports from January through November 1985 amounted to 1.7 million short tons, an increase of 46.9 percent from the 1.2 million short tons imported in the same period of 1984.

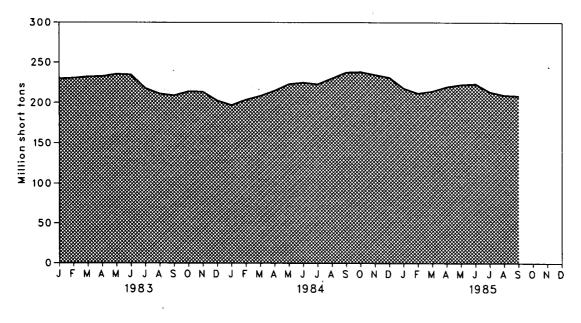
Coal Overview





Production, Consumption, Imports, and Exports





Monthly Energy Review November 1985 Energy Information Administration

Coal

Overview

| | | Production | Consumption | Imports | Exports ² | Stocks ³ |
|------|---------------|------------|-------------|------------------|----------------------|---------------------|
| | | | Tho | usand short tons | | |
| 1973 | Total | 598,568 | 562,584 | 127 | 53,587 | NA |
| 1974 | Total | 610,023 | 558,402 | 2,080 | 60,661 | NA |
| 1975 | Total | 654,641 | 562,641 | 940 | 66,309 | NA |
| 1976 | Total | 684,913 | 603,790 | 1,203 | 60,021 | NA |
| 1977 | Total | 697,205 | 625,291 | 1,647 | 54,312 | NA |
| 1978 | Total | 670,164 | 625,225 | 2,953 | 40,714 | NA |
| 1979 | Total | · · · | | | • | |
| 1980 | | 781,134 | 680,524 | 2,059 | 66,042 | 202,472 |
| | Total | 829,700 | 702,729 | 1,194 | 91,742 | 228,407 |
| 1981 | Total | 823,775 | 732,627 | 1,043 | 112,541 | 209,423 |
| 982 | Total | 838,112 | 706,911 | 742 | 106,277 | 232,038 |
| 983 | January | 62,731 | 63,019 | 78 | 4,471 | 229,713 |
| | February | 60,654 | 54,692 | 71 | 4,382 | 230,413 |
| | March | 68,896 | 55,434 | 120 | 6,291 | 232,182 |
| | April | 61,837 | 52,816 | 144 | 6,115 | 232,567 |
| | May | 63,210 | 54,327 | 102 | 6,952 | 235,445 |
| | June | 61,797 | 58,237 | 133 | 7,279 | 234,794 |
| | July | 55,213 | 69,478 | 87 | 6,140 | 218,145 |
| | August | 73,291 | 72,947 | 115 | 8,380 | 211,153 |
| | September | 70,312 | 63,317 | 97 | 7,525 | 208,993 |
| | October | 71,754 | 60,454 | 190 | 8,131 | 213,975 |
| | November | 68,684 | 61,411 | 32 | 5,838 | 213,651 |
| | December | 63,713 | 70,541 | 102 | 6,269 | 202,584 |
| | Total | 782,091 | 736,672 | 1,271 | 77,772 | · · |
| 984 | January | 67,921 | 71,919 | 81 | 5,062 | 196,985 |
| | February | 73,670 | 62,994 | 140 | 4,251 | 203,771 |
| | March | 81,524 | 65,028 | 55 | 5,813 | 208,548 |
| | April | 72,751 | 58,946 | 148 | 7,688 | 215,023 |
| | May | 81,073 | 60,164 | 72 | 8,221 | 223,262 |
| | June | 76,402 | 66,707 | 49 | 7,828 | 224,905 |
| | July | 74,785 | 70,422 | 193 | 8,318 | 223,118 |
| | August | 90,823 | 73,558 | 147 | 8,235 | 230,224 |
| | September | 78,984 | 64,133 | 95 | 8,710 | 237,720 |
| | October | 69,785 | 64,664 | 104 | 6,641 | 238,350 |
| | November | 64,388 | 64,613 | 68 | 4,190 | 234,702 |
| | December | 63,815 | 68,147 | 134 | 6,526 | 231,300 |
| | Total | 895,921 | 791,296 | 1,286 | 81,483 | 4 |
| 985 | January† | 68,259 | 74,978 | 126 | 5,817 | 217,975 |
| | February† | 67,319 | 65,881 | 101 | 6,030 | 211,804 |
| | March† | 77,989 | 64,892 | 103 | 6,696 | 214,517 |
| | April† | 76,783 | 61,900 | 203 | 7,065 | 219,944 |
| | May† | 78,574 | 64,911 | 159 | 9,231 | 222,580 |
| | June† | 73,436 | 66,985 | 138 | 7,913 | 223,423 |
| | July† | R69,348 | 74,162 | 177 | 7,314 | 213,455 |
| | August† | R79,818 | 73,099 | 264 | 10,422 | 209,455 |
| | September† | R74,134 | 66,651 | 182 | 8,095 | 208,632 |
| | October† | 80,488 | NA | 128 | 8,744 | NA |
| | Novembert | 69,608 | NA | 111 | 8,134 | NA |
| | December† | 70,338 | NA | NA | NA | NA |
| | Year to Date⁴ | 886,096 | 613,460 | 1,692 | 85,460 | |

¹Includes Puerto Rico.
²Excludes shipments of anthracite to U.S. Armed Forces overseas (revised from 347,000 to 218,000 short tons in 1982, 341,000 short tons in 1983, 298,000 short tons in 1984, and 240,000 short tons in 1985).
³Stocks held by electric utilities, coke plants, general industry, and coal producers and distributors at the end of period. Excludes stocks held at retail dealers for consumption by the residential and commercial sector.
⁴Total of available data.
⁴Preliminary data. R = Revised data. NA = Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• See Note on the last page of this section.

Coal

Consumption by End-Use Sector¹

| | | | Industrial | | | |
|------|----------------------------|-----------------------|------------------------|--|----------------------------------|------------------|
| | | Electric Utilities | Coke Plants | Other Industrial Including Transportation | Residential and Commercial | Total |
| | | | | Thousand short tons | 6 | |
| 1973 | Total | 389,212 | 94,101 | 68,154 | 11,117 | 562,584 |
| 1974 | Total | 391,811 | 90,191 | 64,983 | 11,417 | 558,402 |
| 1975 | Total | 405,962 | 83,598 | 63,670 | 9,410 | 562,641 |
| 1976 | Total | 448,371 | 84,704 | 61,799 | 8,916 | 603,790 |
| 1977 | Total | 477,126 | 77,739 | 61,472 | 8,954 | 625,291 |
| 1978 | Total | 481,235 | 71,394 | 63,085 | 9,511 | 625,225 |
| 1979 | Total | 527,051 | 77,368 | 67,717 | 8,388 | 680,524 |
| 1980 | Total | 569,274 | 66,657 | 60,347 | 6,451 | 702,729 |
| 1981 | Total | 596,797 | 61,014 | 67,395 | 7,421 | 732,627 |
| 1982 | Total | 593,666 | 40,908 | 64,097 | 8,240 | 706,911 |
| 1983 | January | 53,351 | 2,813 | 5,970 | 884 | 63,019 |
| | February | 45,772 | 2,742 | 5,405 | 773 | 54,692 |
| | March | 47,110 | 2,567 | 5,206 | 551 | 55,434 |
| | April | 43,589 | 3,206 | • 5,254 | 767 | 52,816 |
| | May | 45,691 | 3,151 | 5,023 | 463 | 54,327 |
| | .June | 50,338 | 2,734 | 4,798 | 367 | 58,237 |
| | July | 60,390 | 3,269 | 5,220 | 599 | 69,478 |
| | August | 63,767 | 3,252 | 5,362 | 566 | 72,947 |
| | September | 54,212 | 3,196 | 5,156 | 752 | 63,317 |
| | October | 50,689 | 3,307 | 5,659 | 799 845 | 60,454 |
| | November | 51,185 59,117 | 3,335 | 6,046 6,880 | 1,082 | 61,411 70,541 |
| | December Total | 625,211 | 3,461 37,033 | 65,980 | 8,448 | 736,672 |
| 1004 | | 60,225 | 3,791 | 6,858 | 1,045 | 71,919 |
| 1984 | January February | 52,257 | 3,592 | 6,230 | 915 | 62,994 |
| | March | 54,534 | 3,843 | 5,999 | 652 | 65,028 |
| | April | 47,565 | 4,180 | 6,273 | 928 | 58,946 |
| | May | 49,507 | 4,100 | 5,997 | 560 | 60,164 |
| | June | 56,971 | 3,564 | 5,729 | 443 | 66,707 |
| | July | 60,359 | 3,639 | 5,730 | 694 | 70,422 |
| | August | 63,396 | 3,620 | 5,886 | 656 | 73,558 |
| | September | 54,045 | 3,557 | 5,659 | 872 | 64,133 |
| | October | 54,753 | 3,317 | 5,902 | 692 | 64,664 |
| | November | 54,229 | 3,346 | 6,305 | 733 | 64,613 |
| | December | 56,560 | 3,473 | 7,176 | 938 | 68,147 |
| | Total | 664,399 | 44,022 | 73,745 | 9,130 | 791,296 |
| 1985 | January† | 63,629 | 3,463 | 7,063 | 823 | 74,978 |
| | February† | 55,463 | 3,282 | 6,416 | 720 | 65,881 |
| | March† | 54,690 | 3,511 | 6,178 | 513 | 64,892 |
| | April† Movt | 50,854 54,523 | 3,851 3,778 | 6,432 6,149 | 764 461 | 61,900 64,911 |
| | May† June† | 57,462 | 3,778 | 5,874 | 365 | 66,985 |
| | Jule y July† | 64,274 | 3,284 | 5,928 | 523 | 74,162 |
| | August† | 63.096 | 3,420 | 6,089 | 494 | 73,099 |
| | September† | 56,780 | 3,361 | 5,854 | 656 | 66,651 |
| | October† | 54,969 | NA | NA | NA | NA |
| | November† | 54,311 | NA | NA | NA | NA |
| | Year to Date ² | 630,052 | 31,387 | 55,983 | 5,318 | 613,460 |

¹See Note 2 on the last page of this section.
²Total of available data.
†Preliminary data. NA = Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • See the last page of this section.

Coal

Stocks at End of Period

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| | | | Consu | | | | |
|------|----------------|-----------------------|-----------------|---------------------|--------------------|----------------------------------|--------------------|
| | _ | Electric Utilities | Coke Plants | Other Industrial | Total ¹ | Producers and Distributors | Total |
| | | | | Thousand s | hort tons | | |
| 1973 | Year | 86,967 | 6,998 | 10,370 | 104,335 | NA | NA |
| 1974 | Year | 83,509 | 6,209 | 6,605 | 96,323 | NA | NA |
| 1975 | Year | 110,724 | 8,797 | 8,529 | 128,050 | NA | NA |
| 1976 | Year | 117,436 | 9,902 | 7,100 | 134,438 | NA | NA |
| 1977 | Year | 133,219 | 12,816 | 11,063 | 157,098 | NA | NA |
| 1978 | Year | 128,225 | 8,278 | 9,048 | 145,551 | NA | NA |
| 1979 | Year | 159,714 | 10,155 | 11,777 | 181,646 | 20,826 | 202,472 |
| 1980 | Year | 183.010 | 9,067 | 11,951 | 204.028 | 24,379 | 228,407 |
| 1981 | Year | 168,893 | 6,475 | 9,906 | 185,274 | 24,149 | 209,423 |
| 1982 | Year | 181,132 | 4,642 | 9,479 | 195,254 | 36,784 | 232,038 |
| 1983 | January | 178,604 | 4,338 | 8,960 | 191,902 | 37,811 | 229,713 |
| 1300 | February | 179,101 | 4,034 | 8,439 | 191,574 | 38,839 | 230,413 |
| | March | 180,671 | 3,728 | 7,916 | 192.315 | 39,867 | 232,182 |
| | April | 181,371 | 4.089 | 7,942 | 193,402 | 39,165 | 232,567 |
| | May | 184,567 | 4,450 | 7,965 | 196,982 | 38,463 | 235,445 |
| | June | 184,236 | 4,812 | 7,985 | 197,033 | 37,761 | 234,794 |
| | July | 168,566 | 4,489 | 8,167 | 181,222 | 36,923 | 218,145 |
| | August | 162,557 | 4,165 | 8,345 | 175,067 | 36,086 | 211,153 |
| | September | 161,384 | 3,842 | 8,518 | 173,743 | 35,249 | 208,993 |
| | October | 166,574 | 4,010 | 8,582 | 179,166 | 34,809 | 213,975 |
| | November | 166,457 | 4,178 | 8,645 | 179,281 | 34,370 | 213,651 |
| | December | 155,598 | 4,346 | 8,710 | 168,654 | 33,931 | 202,584 |
| 1984 | January | 149,403 | 4,947 | 8,593 | 162,943 | 34,042 | 196,985 |
| | February | 155,593 | 5,548 | 8,476 | 169,617 | 34,154 | 203,771 |
| | March | 159,775 | 6,149 | 8,359 | 174,283 | 34,265 | 208,548 |
| | April | 165,592 | 7,171 | 9,137 | 181,900 | 33,123 | 215,023 |
| | May | 173,171 | 8,194 | 9,915 | 191,280 | 31,982 | 223,262 |
| | June | 174,155 | 9,217 | 10,693 | 194,065 | 30,841 | 224,905 |
| | July August | 171,095 176,928 | 9,658 10,099 | 11,904 13,116 | 192,657 | 30,461 30,081 | 223,118 230,224 |
| | September | 183,151 | 10,541 | 14,327 | 200,143 208,019 | 29,701 | 230,224 |
| | October | 184,779 | 9.083 | 13,324 | 207,186 | 31,164 | 238,350 |
| | November | 182,130 | 7,625 | 12,320 | 202,075 | 32,627 | 234,702 |
| | December | 179,727 | 6,166 | 11,317 | 197,211 | 34,090 | 231,300 |
| 1985 | January† | 167,524 | 5,583 | 10,423 | 183,530 | 34,445 | 217,975 |
| | February† | 162,476 | 4,999 | 9,529 | 177,004 | 34.800 | 211,804 |
| | March† | 166,313 | 4,415 | 8,635 | 179,363 | 35,155 | 214,517 |
| | April† | 171,651 | 4,472 | 8,688 | 184,811 | 35,133 | 219,944 |
| | May† | 174,198 | 4,530 | 8,740 | 187,468 | 35,112 | 222,580 |
| | June† | 174,953 | 4,587 | 8,793 | 188,333 | 35,090 | 223,423 |
| | July† | 165,910 | 4,171 | 9,105 | 179,186 | 34,269 | 213,455 |
| | August† | 162,837 | 3,754 | 9,417 | 176,008 | 33,447 | 209,455 |
| | September† | 162,939 | 3,338 | 9,729 | 176,006 | 32,626 | 208,632 |
| | October† | 166,749 | NA | NA | NA | NA | NA |
| | November† | 164,073 | NA | NA | NA | NA | NA |

¹Excludes stocks held at retail dealers for consumption by the residential and commercial sector.
†Preliminary data. NA=Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • See the last page of this section.

Notes and Sources for the Coal Section

Notes

1. Production: Preliminary monthly estimates of national coal production are the sum of weekly estimates developed by the Energy Information Administration (EIA) and pub-lished in the Weekly Coal Production report. When a week extends into a new month, production is allocated on a daily basis and added to the appropriate month. Weekly estimates are based on Association of American Railroads (AAR) data showing the number of railcars loaded with coal during the week by Class I and certain other railroads. This number is converted into tons of coal by EIA using the average number of tons of coal per railcar loaded reported in the most recent Quarterly Freight Commodity Statistics from the Interstate Commerce Commission (ICC). If an average coal tonnage per railcar loaded is not available for a specific railroad, the national average is used. To derive a specific railroad, the national average is used. To derive the estimate of total weekly production, the total rail ton-nage for the week is divided by the ratio of quarterly production shipped by rail and total quarterly production. Data for the corresponding quarter of previous years are used to derive this factor because data for the current quarter are not yet available. This method also ensures that the program unit time is production are program. the seasonal variations in production are preserved.

When preliminary quarterly data become available, the monthly and weekly estimates are adjusted to conform to the quarterly figure. The adjustment procedure uses State-level production data and is explained in the *Quarterly Coal* Report. Initial estimates of annual production published in January of the following year are based on preliminary production data covering the first 9 months (three quarters) and weekly/monthly estimates for the fourth quarter. The fourth quarter estimates may or may not be revised when preliminary data become available in March of the following year, depending on the magnitude of the difference be-tween the estimates and the preliminary data. In any event, all quarterly, monthly, and weekly production figures are adjusted to conform to the final annual production data published in the *Monthly Energy Review* in the fall of the following year.

2. Consumption: Both monthly and quarterly consumption for electric utility plants are taken directly from reported data. Prior to 1980, monthly consumption at coke plants was also taken directly from reported data. Since that time, it has been estimated by proportioning reported quarterly data using the ratios of monthly to quarterly consumption in 1979, the last year in which monthly data were reported. Quarterly consumption is taken directly from reported data.

Prior to 1978, monthly consumption for the other industrial sector (i.e., all industrial users minus coke plants) was derived by using reported data to modify baseline consumption figures from the most recent Bureau of the Census Annual Survey of Manufactures or Census of Manufactures. For 1978 and subsequent years, monthly figures were derived from data reported on Forms EIA-3 and EIA-6. Beginning in 1980, monthly figures have been estimated by proportioning derived quarterly data using the ratios of monthly to quarterly consumption in 1979, the last year in which monthly data were reported on Form EIA-3. Quarterly consumption for the other industrial sector is derived from reported data by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts are taken as the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, mining, and construction con-sumption are included where appropriate.

sumption are included where appropriate. Prior to 1980, monthly consumption for the residential and commercial sector was derived by using reported data to modify baseline figures developed by the Bureau of Mines. Since that time, it has been estimated by proportion-ing reported quarterly data using the ratios of monthly to quarterly consumption in 1979, the last year in which month-ly data were reported on Form EIA-2. During 1981 and 1982, the estimates were also modified to reflect air temper-

ature degree-days. Quarterly consumption is taken directly from reported data and is defined as distribution to the residential and commercial sector as reported by coal producers and distributors on Form EIA-6.

3. Stocks: Both monthly and quarterly stocks at electric utility plants are taken directly from reported data. Prior to 1980, monthly stocks at coke plants were also taken direct-ly from reported data. Since that time, they have been estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Quarterly stocks are taken directly from data reported on Form EIA-5

Prior to 1978, stocks for the other industrial sector were derived by using reported data to modify baseline figures from a one-time Bureau of Mines survey of consumers. from a one-time Bureau of Mines survey of consumers. During the period 1978 through 1982, they were derived by judgmentally proportioning reported quarterly data based on representative seasonal patterns of supply and demand. Since that time, they have been estimated as indicated above for coke plants. Quarterly stocks are taken directly from data reported on Form EIA-3 and therefore include only any forthing induction data for activulture for the forther taken ta only manufacturing industries: data for agriculture, forestry, fishing, mining, and construction stocks are not available. Prior to 1980, monthly and quarterly stock data for the

residential and commercial sector were taken directly from reported data. Monthly and quarterly stock data are not available for the residential and commercial sector after December 1979.

Quarterly stocks at producers and distributors are taken directly from reported data. Monthly data are estimated by using one-third of the current quarterly change to indicate the monthly change in stocks.

4. Imports and Exports: All coal import and export figures are taken directly from data reported monthly by the Bureau of the Census.

Additional information concerning coal production, consumption, and stock data and estimation procedures may be obtained in EIA's *Quarterly Coal Report*, DOE/EIA-0121.

Sources

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Production: 1973 through September 1977: Bureau of Mines, Minerals Yearbook and Mineral Industry Surveys; October 1977 forward: Energy Information Administration

(EIA), Weekly Coal Production. Consumption and Stocks: 1973 through September 1977: Bureau of Mines, *Minerals Yearbook* and *Mineral Industry Surveys* (except Residential and Commercial Consumption and Stocks and Producers and Distributors Stocks);

and Stocks and Producers and Distributors Stocks); • Electric Utilities—October 1977 forward: EIA, Form EIA-759 (formerly FPC Form 4), "Monthly Power Plant Report." • Coke Plants—October 1977 through December 1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals-Monthly/Annual"; January 1981 forward: EIA, Form EIA-5/5A, "Coke Plant Report-Quarterly/Annual Supplement." • Other Industrial—October 1977 through December 1979: EIA, Form EIA-3, "Monthly Fuel Consumption Report-Manufacturing Plants"; January 1980 forward: EIA, Form EIA-3, "Quarterly Fuel Consumption Report-Manufacturing Plants" and Form EIA-6, "Coal Distribution Report." • Residential and Commercial Consumption and Stocks— 1973 through 1976: Bureau of Mines, *Minerals Yearbook*;

Hesidential and Commercial Consumption and Stocks— 1973 through 1976: Bureau of Mines, *Minerals Yearbook;* January 1977 through September 1977: Bureau of Mines, Form 6-1400-M, "Monthly Coal Report, Retail Dealers— Upper Lake Docks"; October 1977 through December 1979: EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers— Upper Lake Docks"; January 1980 forward: EIA, Form EIA-6, "Coal Distribution Report," (stock data are not collected).
 Producers and Distributors Stocks—January 1980 forward: EIA, Form EIA-6, "Coal Distribution Report,"

EIA, Form EIA-6, "Coal Distributions Stocks—January 1980 forward: **Imports and Exports:** Bureau of the Census, U.S. Depart-ment of Commerce, Monthly Reports IM-145 (Imports) and EM-522 (Exports).

During November 1985, electric utilities generated 193.0 billion kilowatthours of electricity, 1.4 percent above the November 1984 generation level. Coal-fired generation totaled 108.8 billion kilowatthours, 0.9 percent below the November 1984 level. Nuclear generation totaled 30.2 billion kilowatthours, 22.8 percent above the November 1984 level. Hydroelectric generation was 23.5 billion kilowatthours in November 1985, 5.6 percent above the November 1984 level. Natural gas-fired generation was 22.5 billion kilowatthours, 5.4 percent below the level 1 year earlier. Petroleumfired generation totaled 7.0 billion kilowatthours, 24.1 percent below the November 1984 level.

Sales of electricity to all ultimate consumers in the United States in November 1985 were 179.1 billion kilowatthours, 0.6 percent above November 1984 sales. Sales to residential consumers during November 1985 were 56.8 billion kilowatthours, 0.4 percent above the level of sales during the same month in 1984. Commercial sales were 47.8 billion kilowatthours, 4.1 percent more than the amount sold to commercial consumers in November 1984. Sales to industrial consumers totaled 67.2 billion kilowatthours in November 1985, 2.2 percent less than the 1984 figure. In November 1985, other sales totaled 7.3 billion kilowatthours, 6.2 percent above the November 1984 level.

Electric utility petroleum consumption (excluding petroleum coke) during November 1985 was 11.9 million barrels, 24.7 percent below the November 1984 level. Coal consumption during November 1985 was 54.3 million short tons, 0.2 percent above the November 1984 rate. During November 1985, electric utilities consumed 230.0 billion cubic feet of natural gas, 6.0 percent below the November 1984 consumption level.

On November 30, 1985, utility stocks of anthracite, bituminous coal, and lignite totaled 164.1 million short tons. These stockpiles were 9.9 percent below the level of November 30, 1984. Petroleum stocks (excluding petroleum coke) on November 30, 1985, totaled 74.8 million barrels, 11.3 percent below the level on the same date in 1984.

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Net Electricity Generation by Primary Energy Source

| | | Coal | Petroleum | Natural Gas² | Nuclear Electric Power | Hydro- electric Power | Other ³ | Total |
|------|----------------------|--------------------|------------------|------------------|------------------------------|-----------------------------|---------------------------|----------------------|
| | | | | Mil | llion kilowatthou | irs | | |
| 1973 | Total | 847,651 | 314,343 | 340,858 | 83,479 | 272,083 | 2,294 | 1,860,710 |
| 1974 | Total | 828,433 | 300,931 | 320,065 | 113,976 | 301,032 | 2,703 | 1,867,140 |
| 1975 | Total | 852,786 | 289,095 | 299,778 | 172,505 | 300,047 | 3,437 | 1,917,649 |
| 1976 | Total | 944,391 | 319,988 | 294,624 | 191,104 | 283,707 | 3,883 | 2,037,696 |
| 1977 | Total | 985,219 | 358,179 | 305,505 | 250,883 | 220,475 | 4,063 | 2,124,323 |
| 1978 | Total | 975,742 | 365,060 | 305,391 | 276,403 | 280,419 | 3,315 | 2,206,331 |
| 1979 | Total | 1,075,037 | 303,525 | 329,485 | 255,155 | 279,783 | 4,387 | 2,247,372 |
| 1980 | Total | 1,161,562 | 245,994 | 346,240 | 251,116 | 276,021 | 5,506 | 2,286,439 |
| 1981 | Total | 1,203,203 | 206,421 | 345,777 | 272,674 | 260,684 | 6,054 | 2,294,812 |
| 1982 | Total | 1,192,004 | 146,797 | 305,260 | 282,773 | 309,213 | 5,164 | 2,241,211 |
| 1983 | January | 108,164 | 12,880 | 19,721 | 25,073 | 29,235 | 506 | 195,579 [.] |
| | February | 92,692 | 12,586 | 16,659 | 22,198 | 27,950 | 395 | 172,479 |
| | March | 95,598 | 12,556 | 19,686 | 23,890 | 30,302 | 455 | 182,488 |
| | April | 88,114 | 10,337 | 19,174 | 22,335 | 29,989 | 424 | 170,372 |
| | May | 91,296 | 9,050 | 20,445 | 22,051 | 31,194 | 356 | 174,392 |
| | June | 101,512 | 11,139 | 23,091 | 24,152 | 30,692 | 462 | 191,048 |
| 1 | July | 121,560 | 14,710 | 29,615 | 25,602 | 28,113 | 565 | 220,165 |
| | August | 129,313 | 14,731 | 33,147 | 26,201 | 25,828 | 738 | 229,957 |
| | September | 108,868 | 11,299 | 28,040 | 25,007 | 21,712 | 678 | 195,604 |
| | October | 101,951 | 9,941 | 23,783 | 25,797 | 20,747 | 712 | 182,931 |
| | November December | 103,225 117,131 | 9,229 16,041 | 20,169 | 25,010 | 24,678 | 637 | 182,949 |
| | Total | | , | 20,567 | 26,361 | 31,691 | 528 | 212,319 |
| | Total | 1,259,424 | 144,499 | 274,098 | 293,677 | 332,130 | 6,456 | 2,310,285 |
| 1984 | January | 120,850 | 15,939 | 20,245 | 29,313 | 29,737 | 547 | 216,632 |
| | February | 104,706 | 10,053 | 17,827 | 28,436 | 27,900 | 643 | 189,564 |
| | March | 111,158 | 10,806 | 19,645 | 27,345 | 30,435 | 719 | 200,107 |
| | April | 97,542 | 7,450 | 21,197 | 24,231 | 29,970 | 695 | 181,084 |
| | May | 100,139 | 8,422 | 25,304 | 25,867 | 31,814 | 673 | 192,217 |
| | June July | 115,426 | 11,152 | 28,345 | 25,299 | 28,773 | 654 | 209,648 |
| | August | 121,094 127,744 | 10,397 12,836 | 33,327 33,292 | 28,284 | 27,495 | 648 | 221,245 |
| | September | 108,862 | 7,713 | 27,839 | 29,493 29,146 | 25,137 20,911 | 794 728 | 229,296 195,198 |
| | October | 110,801 | 7,874 | 25,783 | 24,774 | 20,887 | 819 | 190,936 |
| | November | 109,759 | 9,232 | 23,728 | 24,575 | 22,259 | 827 | 190,380 |
| | December | 113,601 | 7,935 | 20,863 | 30,872 | 25,834 | 892 | 199,996 |
| | Total | 1,341,681 | 119,808 | 297,394 | 327,634 | 321,150 | 8,638 | 2,416,304 |
| 1985 | January | 129,066 | 12,076 | 22,001 | 36,186 | 27,498 | 906 | 227,733 |
| | February | 111,994 | 9,264 | 19,370 | 30,809 | 25,880 | 803 | 198,121 |
| | March | 111,223 | 7,116 | 19,813 | 31,041 | 24,583 | 930 | 194,707 |
| | April | 104,706 | 6,015 | 22,409 | 26,458 | 24,370 | 783 | 184,740 |
| | May | 111,384 | 6,858 | 22,465 | 28,697 | 26,415 | 816 | 196,635 |
| | June | 115,276 | 7,575 | 26,714 | 30,837 | 23,834 | 788 | 205,025 |
| | July | 128,880 | 8,289 | 32,191 | 35,184 | 21,283 | 885 | 226,712 |
| | August | 126,550 | 9,858 | 33,915 | 34,812 | 19,981 | 934 | 226,050 |
| | September October | 114,630 | 7,435 | 26,169 | 34,508 | 18,810 | 887 | 202,438 |
| | November | 111,053 108,813 | 7,515 7,009 | 24,059 22,451 | 31,205 | 20,048 | 849 | 194,730 |
| | Year to Date | 1,273,575 | | | 30,166 349,905 | 23,496 | 1,031 | 192,966 |
| | | 1,273,375 | 89,009 | 271,558 | 349,900 | 256,198 | 9,611 | 2,249,858 |

¹Includes fuel oil No. 2, No. 4, No. 5, No. 6, crude oil, kerosene, and petroleum coke.
²Includes supplemental gaseous fuels.
³Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; • October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; • 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

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Monthly Energy Review November 1985 **Energy Information Administration**

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Electricity Sales¹

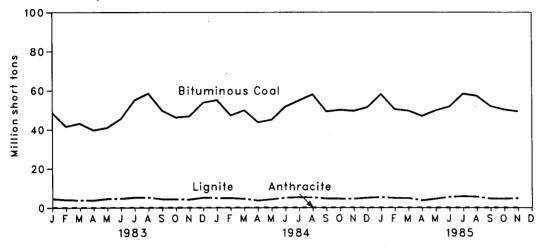
| | | Residential | Commercial | Industrial | Other ² | Total |
|------|-------------------|------------------|------------------|------------------|--------------------|--------------------|
| | | | Millic | n kilowatthours | | |
| 1973 | Total | 579,231 | 388,266 | 686,085 | 59,328 | 1,712,910 |
| 1974 | Total | 578,184 | 384,826 | 684,875 | 58,039 | 1,705,924 |
| 1975 | Total | 588,140 | 403,049 | 687,680 | 68,222 | 1,747,091 |
| 1976 | Total | 606,452 | 425,094 | 754,069 | 69,631 | 1,855,246 |
| 1977 | Total | 645,239 | 446,514 | 786.037 | 70,571 | 1,948,361 |
| 1978 | Total | 674,466 | 461,163 | 809.078 | 73,215 | |
| 1979 | Total | 682.819 | 473,307 | 841.903 | 73,215 | 2,017,922 |
| 1980 | Total | 717,495 | 488,156 | 815.067 | • | 2,071,099 |
| 1980 | Total | 722,265 | • | , | 73,732 | 2,094,449 |
| 1982 | Total | • | 514,338 | 825,742 | 84,756 | 2,147,101 |
| | | 729,519 | 526,397 | 744,949 | 85,575 | 2,086,440 |
| 1983 | January | 69,967 | 44,019 | 57,938 | 7,252 | 179,176 |
| | February March | 65,039 | 42,475 | 59,032 | 6,919 | 173,465 |
| | April | 58,912 56,284 | 41,518 40.679 | 60,261 60,548 | 6,893 6,296 | 167,584 |
| | May | 49,669 | 40,305 | 62,729 | 6,290 | 163,807 158,919 |
| | June | 54,138 | 45,086 | 66,152 | 6,228 | 171.604 |
| | July | 69,965 | 51,013 | 66,424 | 6,752 | 194,153 |
| | August | 78,374 | 53,245 | 69,611 | . 6,885 | 208,115 |
| | September | 73,197 | 52,147 | 69,618 | 6,960 | 201.922 |
| | October | 55,374 | 45,517 | 68,924 | 6,492 | 176,307 |
| | November | 53,704 | 42,666 | 67,544 | 6,560 | 170,474 |
| | December | 66,326 | 45,119 | 67,217 | 6,765 | 185,428 |
| | Total | 750,948 | 543,788 | 775,999 | 80,219 | 2,150,955 |
| 1984 | January | 83,295 | 49,243 | 66,709 | 7,289 | 206,537 |
| | February | 69,818 | 46,293 | 67,445 | 6,690 | 190,246 |
| | March | 63,656 | 45,252 | 69,684 | 6,902 | 185,475 |
| | April | 56,373 | 43,052 | 69,048 | 6,339 | 174,813 |
| | May | 53,519 | 44,150 | 70,774 | 6,559 | 175,003 |
| | June | 59,955 | 49,454 | 73,037 | 6,714 | 189,160 |
| | July August | 71,020 73,138 | 53,922 53,603 | 71,843 74,534 | 7,006 | 203,791 |
| | September | 67,456 | 52,854 | 74,534 | 7,089 6,780 | 208,364 198,365 |
| | October | 55,965 | 48,061 | 70,945 | 6,732 | 181,702 |
| | November | 56,543 | 45,937 | 68,688 | 6,840 | 178,008 |
| | December | 66,915 | 46,481 | 66,606 | 6,908 | 186,910 |
| | Total | 777,654 | 578,281 | 840,588 | 81,849 | 2,278,372 |
| 1985 | January | 77,242 | 49,634 | 67,220 | 7,270 | 201,365 |
| | February | 78,011 | 49,406 | 66,582 | 7,046 | 201,045 |
| | March | 63,981 | 46,629 | 67,437 | 6,875 | 184,922 |
| | April | 56,025 | 45,826 | 68,445 | 7,049 | 177,345 |
| | May | 52,842 | 47,711 | 70,140 | 6,903 | 177,596 |
| | June | 60,612 | 51,582 | 70,141 | 6,861 | 189,196 |
| | July August | 71,027 73,311 | 56,109 55,544 | 69,761 72,780 | 7,136 7,278 | 204,034 |
| | September | 71,064 | 55,960 55,960 | 72,789 71,402 | 7,278 | 208,922 205,650 |
| | October | 57,515 | 50,201 | 69,158 | 6.883 | 183,757 |
| | November† | 56,794 | 47,843 | 67,159 | 7,264 | 179,061 |
| | Year to Date | 718,424 | 556,445 | 760,235 | 77,789 | 2,112,893 |
| | | • | | | • • • | , , , |

¹Electricity sales to all ultimate consumers.
²Includes sales of electricity to Government, railways, street lighting authorities, and sales not included elsewhere.
³Includes sales.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA), • 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; • March 1980 through December 1982: FERC Form 5, "Electric Utility Company Monthly Statement"; • January 1983 forward: Form EIA 826, "Electric Utility Company Monthly Statement."

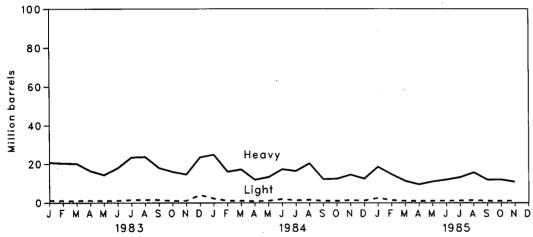
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Primary Energy Consumed to Produce Electricity

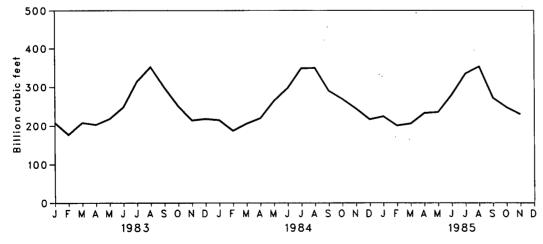












Primary Energy Consumed to Produce Electricity

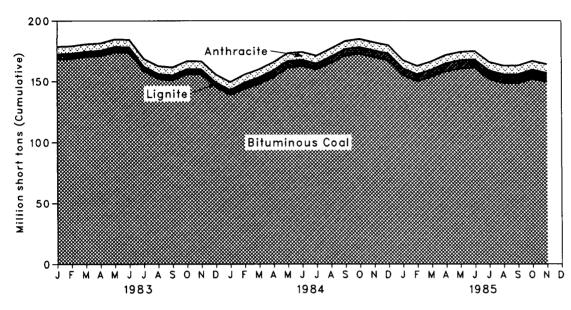
| | | | Coa | | | | Petro | bleum | | Natural Gas ¹ |
|------|----------------------|-------------|--------------------|----------------|------------------|--------------------|------------------------|--------------------------|---------------------|-----------------------------|
| | | Anthracite | Bituminous Coal | Lignite | Total | Heavy ² | Light ³ | Total Liquids | Petroleum Coke | |
| | | | Thousand sh | ort tons | | The | ousand barr | els | Thousand short tons | Million cubic feet |
| 1973 | Total | 1,443 | 376,975 | 10,794 | 389,212 | (*) | (*) | 560,248 | 507 | 3,660,172 |
| 1974 | Total | 1,498 | 378,643 | 11,670 | 391,811 | (') | () | 536,274 | 625 | 3,443,428 |
| 1975 | Total | 1,480 | 388,523 | 15,960 | 405,962 | (*) | (*) | 506,128 | 70 | 3,157,669 |
| 1976 | Total | 1,350 | 425,205 | 21,817 | 448,371 | (*) | (*) | 555,920 | 68 | 3,080,868 |
| 1977 | Total | 1,425 | 451,051 | 24,650 | 477,126 | (·) | (*) | 623,705 | 98 | 3,191,200 |
| 1978 | Total | 1,064 | 448,763 | 31,407 | 481,235 | () | (1) | 635,839 | 398 | 3,188,363 |
| 1979 | Total | 1,046 | 488,129 | 37,876 | 527,051 | (*) | (*) | 523,297 | 268 | 3,490,523 |
| 1980 | Total | 951 | 526,680 | 41,642 | 569,274 | 391,163 | 29,051 | 420,214 | 179 | 3,681,595 |
| 1981 | Total | 1,221 | 550,784 | 44,792 | 596,797 | 329,798 | 21,313 | 351,111 | 139 | 3,640,154 |
| 1982 | Total | 1,075 | 543,346 | 49,245 | 593,666 | 234,434 | 15,337 | 249,771 | 149 | 3,225,518 |
| | | | - | | • | | • | | | |
| 1983 | January | 73 | 48,695 | 4,583 | 53,351 | 20,728 | 1,110 | 21,838 | 17 | 208,341 |
| | February March | 73 75 | 41,668 43,165 | 4,032 3,870 | 45,772 47,110 | 20,305 20,174 | 984 945 | 21,289 | 19 | 176,965 |
| | April | 92 | 39,716 | 3,781 | 43,589 | 16,374 | 1,054 | 21,119 17,429 | 16 24 | 208,013 202,917 |
| | May | 104 | 41,002 | 4,585 | 45,691 | 14,360 | / 937 | 15,297 | | 218,184 |
| | June | 88 | 45,560 | 4,690 | 50,338 | 17,892 | 1,020 | ' 18,912 | 23 | 247,825 |
| | July | 89 | 55,082 | 5,219 | 60,390 | 23,383 | 1,433 | 24,815 | 25 | 314,357 |
| | August | 92 · | 58,475 | 5,200 | 63,767 | 23,622 | 1,543 | 25,165 | 24 | 352,031 |
| | September | 86 | 49,745 | 4,381 | 54,212 | 18,021 | 1,507 | 19,529 | 25 | 298,517 |
| | October | 91 | 46,263 | 4,335 | 50,689 | 15,993 | 870 | 16,863 | 22 | 251,151 |
| | November | 86 | 46,883 | 4,216 | 51,185 | 14,690 | 1,075 | 15,766 | 17 | 214,275 |
| | December | 88 | 53,854 | 5,176 | 59,117 | 23,440 | 4,034 | 27,474 | 21 | 218,191 |
| | Total | 1,036 | 570,108 | 54,067 | 625,211 | 228,984 | 16,512 | 245,497 | 261 | 2,910,767 |
| 1984 | January | 98 | 55,142 | 4,985 | 60,225 | 24,745 | 2,176 | 26,921 | 24 | 215,027 |
| | February | 75 | 47,279 | 4,904 | 52,257 | 16,091 | 1,018 | 17,108 | 21 | 187,259 |
| | March | 69 | 49,921 | 4,543 | 54,534 | 17,274 | 1,016 | 18,290 | 18 | 206,171 |
| | April | 83 | 43,779 | 3,703 | 47,565 | 11,971 | 831 | 12,802 | 22 | 220,005 |
| | May | 99 | 45,115 | 4,294 | 49,507 | 13,327 | 1,010 | 14,337 | 23 | 264,522 |
| | June July | 102 100 | 51,757 | 5,112 | 56,971 | 17,363 | 1,927 | 19,289 | 23 | 297,560 |
| | August | 97 | 54,928 58,026 | 5,331 5,273 | 60,359 63,396 | 16,453 | 1,259 | 17,712 | 22 | 348,848 |
| | September | 81 | 49,288 | 4,675 | 54,045 | 20,337 12,235 | 1,522 996 | 21,859 13,231 | 20 21 | 349,878 290,595 |
| | October | 83 | 50,091 | 4,578 | 54,753 | 12,450 | 965 | 13,415 | 19 | 269.629 |
| | November | 91 | 49,595 | 4,543 | 54,229 | 14,543 | 1,326 | 15,870 | 17 | 244,637 |
| | December | 93 | 51,418 | 5,050 | 56,560 | 12,499 | 1,146 | 13,645 | 20 | 217,210 |
| | Total | 1,070 | 606,339 | 56,990 | 664,399 | 189,289 | 15,190 | 204,479 | 252 | 3,112,342 |
| 1985 | January | 88 | 58,139 | 5,402 | 63,629 | 18,574 | 2.478 | 21,052 | 18 | 224,873 |
| | February | 70 | 50,453 | 4,940 | 55,463 | 14,729 | 1,315 | 16,044 | 17 | 201,160 |
| | March | 78 | 49,699 | 4,913 | 54,690 | 11,323 | 970 | 12,294 | 16 | 206,247 |
| | April | 92 | 47,024 | 3,738 | 50,854 | 9,561 | 905 | 10,466 | 16 | 233,201 |
| | May | 98 | 49,818 | 4,607 | 54,523 | 11,046 | 959 | 12,004 | 13 | 235,626 |
| | June | 90 | 51,812 | 5,561 | 57,462 | 12,005 | 1,090 | 13,095 | 21 | 280,722 |
| | July | 92 | 58,350 | 5,833 | 64,274 | 13,238 | 1,109 | 14,347 | 20 | 335,185 |
| | August | 96 74 | 57,324 | 5,676 | 63,096 | 15,730 | 1,338 | 17,067 | 19 | 353,541 |
| | September October | 74 85 | 52,031 | 4,675 | 56,780 | 11,994 | 979 | 12,973 | 24 | 272,618 |
| | November | 83 | 50,265 49,315 | 4,619 4,913 | 54,969 54,311 | 12,056 10,923 | 969 | 13,026 | 23 | 248,154 |
| | Year to Date | 947 | 574,228 | 54,877 | 630.052 | 10,923 141,178 | 1,021 13,133 | 11,944 154,311 | 23 211 | 230,003 2,821,330 |
| | to butt | | UI 7,22U | 54,077 | 000,002 | 141,170 | 10,100 | 134,311 | 4 11 | £,0£1,33U |

¹Includes supplemental gaseous fuels. ²Heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils. ³Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel. ⁴Prior to 1980, petroleum consumption data were not disaggregated by type of fuel. Disaggregation by prime mover type is provided in the last table of this section.

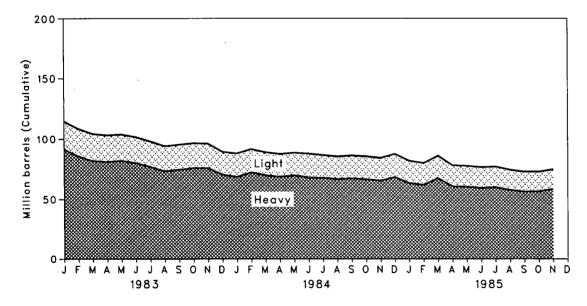
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Coal and Petroleum Stocks at End of Period





Petroleum Stocks



Coal and Petroleum Stocks at End of Period

| | | | Co | al | | Petroleum | | | | |
|------|---------------------|----------------|--------------------|---|--------------------|------------------|--------------------|------------------|---------------------|--|
| | | Anthracite | Bituminous Coal | Lignite | Total | Heavy | Light ² | Total Liquids | Petroleum Coke | |
| | | | Thousand sh | ort tons | | Th | ousand barre | ls | Thousand short tons | |
| 1973 | Year | 1,066 | 84,941 | 961 | 86,967 | (3) | (3) | 00.046 | 312 | |
| 1974 | Year | 930 | • | | • | (³) | (³) | 89,216 | | |
| 1975 | Year | | 81,712 | 867 | 83,509 | (³) | (3) | 112,917 | 35 | |
| | | 982 | 107,927 | 1,815 | 110,724 | (3) | (3) | 125,257 | 31 | |
| 1976 | Year | 1,000 | 114,130 | 2,306 | 117,436 | (³) | (3) | 121,696 | 32 | |
| 1977 | Year | 2,321 | 128,210 | 2,688 | 133,219 | (3) | (3) | 144,031 | 44 | |
| 1978 | Year | 2,178 | 123,020 | 3,027 | 128,225 | (3) | (³) | 118,788 | 198 | |
| 1979 | Year | 3,274 | 152,981 | 3,459 | 159,714 | (3) | (³) | 131,422 | 183 | |
| 1980 | Year | 4,741 | 174,154 | 4,115 | 183,010 | 105,351 | 30,023 | 135,374 | 52 | |
| 1981 | Year | 5,537 | 158,258 | 5,098 | 168,893 | 102,042 | 26,094 | 128,136 | 42 | |
| 1982 | Year | 6,080 | 170,480 | 4,573 | 181,132 | 95,515 | 23,369 | 118,884 | 41 | |
| 1983 | January | 6,107 | 168,287 | 4,210 | 178,604 | 91,523 | 23,183 | 114,706 | 54 | |
| | February | 6,104 | 168,635 | 4,362 | 179,101 | 85,847 | 22,665 | 108,512 | 53 | |
| | March | 6,143 | 170,327 | 4,201 | 180,671 | 81,957 | 22,387 | 104,344 | 54 | |
| | April | 6,120 | 170,815 | 4,436 | 181,371 | 81,243 | 21,967 | 103,211 | 47 | |
| | May | 6,145 | 173,969 | 4,453 | 184,567 | 82,091 | 21,758 | 103,849 | 44 | |
| | June | 6,230 | 173,483 | 4,524 | 184,236 | 80,197 | 21,471 | 101,667 | 52 | |
| | July | 6,299 | 158,701 | 3,566 | 168,566 | 76,881 | 21,101 | 97,982 | 50 | |
| | August | 6,380 | 152,140 | 4,038 | 162,557 | 73,266 | 20,763 | 94,029 | 45 | |
| | September | 6,435 | 150,778 | 4,171 | 161,384 | 74,560 | 20,696 | 95,256 | 47 | |
| | October | 6,506 | 156,012 | 4,056 | 166,574 | 75,949 | 20,568 | 96,517 | 53 | |
| | November | 6,531 | 155,931 | 3,995 | 166,457 | 75,930 | 20,271 | 96,201 | 63 | |
| | December | 6,507 | 145,250 | 3,841 | 155,598 | 70,573 | 18,801 | 89,375 | 55 | |
| 1984 | January | 6,500 | 139,026 | 3,877 | 149,403 | 68,679 | 19,369 | 88,048 | 43 | |
| | February | 6,510 | 143,731 | 5,352 | 155,593 | 72,339 | 19,227 | 91,566 | 41 | |
| | March | 6,519 | 147,756 | 5,500 | 159,775 | 69,984 | 19,058 | 89,042 | 45 | |
| | April | 6,515 | 153,300 | 5,777 | 165,592 | 68,771 | 18,849 | 87,620 | 47 | |
| | May | 6,532 | 161,067 | 5,573 | 173,171 | 69,890 | 18,695 | 88,584 | 51 | |
| | June | 6,541 | 162,426 | 5,188 | 174,155 | 68,098 | 19,807 | 87,906 | 51 | |
| | July | 6,530 | 159,683 | 4,883 | 171,095 | 67,856 | 18,840 | 86,696 | 50 | |
| | August September | 6,583 | 164,987 | 5,358 | 176,928 | 66,836 | 18,795 | 85,632 | 47 ` | |
| | October | 6,628 | 170,987 | 5,536 | 183,151 | 67,370 | 18,921 | 86,291 | 49 | |
| | November | 6,674 6,715 | 172,553 | 5,552 | 184,779 | 66,717 | 18,965 | 85,682 | 49 | |
| | December | 6,710 | 169,788 167,118 | 5,627 5,899 | 182,130 | 65,548 | 18,875 | 84,423 | 43 50 | |
| 1005 | | , | | | 179,727 | 68,503 | 19,116 | 87,619 | | |
| 1985 | January | 6,719 | 154,999 | 5,806 | 167,524 | 63,546 | 18,511 | 82,057 | 57 | |
| | February | 6,736 | 150,023 | 5,717 | 162,476 | 62,072 | 18,073 | 80,145 | 50 | |
| | March | 6,782 | 153,697 | 5,834 | 166,313 | 62,558 | 18,652 | 81,209 | 43 | |
| | April May | 6,836 | 158,174 | 6,641 | 171,651 | 60,889 | 17,356 | 78,245 | 31 | |
| | June | 6,905 6,991 | 160,326 | 6,967 | 174,198 | 60,530 | 17,226 | 77,756 | 33 | |
| | July | 6,991 7,045 | 161,003 | 6,959 | 174,953 | 59,613 | 17,093 | 76,706 | 33 | |
| | August | 7,045 | 151,815 | 7,049 | 165,910 | 60,116 | 17,030 | 77,146 | 43 | |
| | September | 7,109 | 148,709 148,510 | 7,018 | 162,837 | 57,797 | 16,696 | 74,493 | 42 | |
| | October | 7,185 | 148,510 | 7,243 7,492 | 162,939 166,749 | 56,463 | 16,409 | 72,872 | 40 | |
| | November | 7,233 | 149,579 | 7,492 | 164,073 | 56,634 58,697 | 16,277 16,149 | 72,910 | 43 47 | |
| | | .,220 | 140,070 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 010,00 | , 60,057 | 10,149 | 74,847 | 41 | |

¹Heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils. ²Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel. ³Prior to 1980, petroleum stock data were not disaggregated by type of fuel. Disaggregation by prime mover type is provided in the last table of this section.

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Petroleum Consumption and Stocks by Prime Mover Type

| | | Petr | oleum Consum | ption | Petroleum Stocks at End of Period | | | | |
|------|----------------------|------------------|--------------------|------------------|-----------------------------------|--------------------|------------------|--|--|
| | | Steam Plants | GT/IC ¹ | Total Liquids | Steam Plants | GT/IC ¹ | Total Liquids | | |
| | | | | Thousar | nd barrels | | | | |
| 1973 | Total | 513,190 | 47,058 | 560,248 | 79,121 | 10,095 | 89,216 | | |
| 1974 | Total | 483,146 | 53,128 | 536,274 | 97,718 | 15,199 | 112,917 | | |
| 1975 | Total | 467,221 | 38,907 | 506,128 | 108,825 | 16,432 | 125,257 | | |
| 1976 | Total | 514,077 | 41,843 | 555,920 | 106,993 | 14,703 | 121,696 | | |
| 1977 | Total | 574,869 | 48,837 | 623,705 | 124,750 | 19,281 | 144,031 | | |
| 1978 | Total | 588,319 | 47,520 | 635,839 | 102,402 | 16,386 | 118,788 | | |
| 1979 | Total | 492,606 | 30,691 | 523,297 | 111,121 | 20,301 | 131,422 | | |
| 1980 | Total | 401,863 | 18,351 | 420,214 | , | 18,147 | , | | |
| 1981 | Total | 339,680 | 11,431 | | 117,227 | | 135,374 | | |
| 1982 | Total | | | 351,111 | 112,380 | 15,756 | 128,136 | | |
| | | 243,537 | 6,234 | 249,771 | 105,287 | 13,597 | 118,884 | | |
| 1983 | January | 21,373 | 465 | 21,838 | 101,394 | 13,312 | 114,706 | | |
| | February | 20,885 | 404 | 21,289 | 95,459 | 13,053 | 108,512 | | |
| | March | 20,728 | 392 | 21,119 | 91,394 | 12,750 | 104,344 | | |
| | April Mov | 16,997 | 432 | 17,429 | 90,667 | 12,544 | 103,211 | | |
| | May June | 14,968 | 330 | 15,297 | 91,360 | 12,489 | 103,849 | | |
| | July | 18,437 23,927 | 475 888 | 18,912 24,815 | 89,283 | 12,384 12,091 | 101,667 | | |
| | August | 24,166 | 999 | 25,165 | 85,891 82,307 | 11,722 | 97,982 94,029 | | |
| | September | 18,532 | 996 | 19,529 | 83,511 | 11,745 | 95,256 | | |
| | October | 16,518 | 345 | 16,863 | 84,873 | 11,644 | 96,517 | | |
| | November | 15,336 | 430 | 15,766 | 84,804 | 11,397 | 96,201 | | |
| | December | 25,978 | 1,496 | 27,474 | 78,285 | 11,090 | 89,375 | | |
| | Total | 237,845 | 7,652 | 245,497 | | ., | , | | |
| 1984 | January | 25,838 | 1,082 | 26,921 | 76,756 | 11,292 | 88,048 | | |
| | February | 16,662 | 447 | 17,108 | 80,404 | 11,163 | 91,566 | | |
| | March | 17,881 | 410 | 18,290 | 78,014 | 11,028 | 89,042 | | |
| | April | 12,495 | 306 | 12,802 | 76,721 | 10,899 | 87,620 | | |
| | May | 13,896 | 441 | 14,337 | 77,699 | 10,886 | 88,584 | | |
| | June | 17,997 | 1,293 | 19,289 | 76,126 | 11,780 | 87,906 | | |
| | July | 17,085 | 627 | 17,712 | 75,788 | 10,908 | 86,696 | | |
| | August | 20,957 | 902 | 21,859 | 74,832 | 10,799 | 85,632 | | |
| | September October | 12,795 13,019 | 436 396 | 13,231 13,415 | 75,588 | 10,703 | 86,291 | | |
| | November | 15,177 | 692 | 15,870 | 74,906 73,833 | 10,775 10,590 | 85,682 84,423 | | |
| | December | 13,247 | 398 | 13,645 | 76,836 | 10,784 | 87,619 | | |
| | Total | 197,050 | 7,429 | 204,479 | 70,830 | 10,704 | 07,013 | | |
| 1985 | January | 19,842 | 1,210 | 21,052 | 71,522 | 10,535 | 82,057 | | |
| | February | 15,576 | 467 | 16,044 | 70,051 | 10,094 | 80,145 | | |
| | March | 11,957 | 337 | 12,294 | 70,364 | 10,845 | 81,209 | | |
| | April | 10,127 | 338 | 10,466 | 68,641 | 9,604 | 78,245 | | |
| | Мау | 11,601 | 403 | 12,004 | 68,249 | 9,507 | 77,756 | | |
| | June | 12,495 | 601 | 13,095 | 67,468 | 9,238 | 76,706 | | |
| | July | 13,840 | 507 | 14,347 | 67,816 | 9,330 | 77,146 | | |
| | August | 16,272 | 795 | 17,067 | 65,284 | 9,209 | 74,493 | | |
| | September | 12,485 | 488 | 12,973 | 63,667 | 9,205 | 72,872 | | |
| | October | 12,643 | 383 | 13,026 | 63,857 | 9,053 | 72,910 | | |
| | November | 11,582 | 362 | 11,944 | 66,079 | 8,767 | 74,847 | | |
| | Year to Date | 148,419 | 5,892 | 142,367 | | | | | |

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¹GT/IC=Gas turbine and internal combustion plants.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; • October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; • 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

In November 1985, U.S. nuclear power plants generated a total of 30.2 billion net kilowatthours of electricity while achieving an average capacity factor of 52.9 percent. This generation represents an increase of 22.8 percent compared with November 1984 generation. Nuclear power supplied 15.6 percent of the electricity generated in November 1985.

River Bend-1, a 936-net-megawatt-electric boiling-water reactor, was issued a full-power license on November 20 by the Nuclear Regulatory Commission. This license lifted a 5-percent power limitation, allowing power ascension for eventual commercial operation. Operated in Louisiana by Gulf States Utilities Company, River Bend-1 had received a lowpower testing license on August 29. Millstone-3, a 1,153-net-megawatt-electric pressurizedwater reactor, was issued a low-power license on November 11. Millstone-3 is operated by Connecticut Light and Power Company.

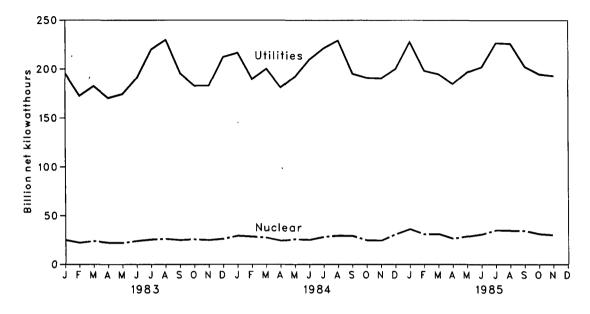
There were 95 operable U.S. nuclear power generating units as of November 30, 1985,

with a collective net generating capacity of 79.2 million kilowatts. Of the 95 operable units, 5 were in power ascension (Diablo Canyon-2, Fermi-2, Limerick-1, Palo Verde-1, and River Bend-1), and 29 units generated no electricity or operated substantially below capacity (Browns Ferry-1, Browns Ferry-2, Browns Ferry-3, Byron-1, Calvert Cliffs-2, Catawba-1, Cook-1, Cooper, Davis-Besse, Dresden-3, Fort Calhoun, Fort St. Vrain, Grand Gulf-1, Hanford, LaSalle-1, LaSalle-2, Millstone-1, North Anna-1, Oyster Creek, Peach Bottom-3, Point Beach-2, San Onofre-3, Sequoyah-1, Sequoyah-2, St. Lucie-1, Summer, Vermont Yankee, Yankee-Rowe, and Zion-2). Two units had licenses from the Nuclear Regulatory Commission authorizing fuelloading and low-power testing (Millstone-3 and Shoreham).

As of November 30, 1985, there were 130 domestic nuclear power generating units in all stages of planning, construction, or operation, with an aggregate design capacity of 121 million net kilowatts.

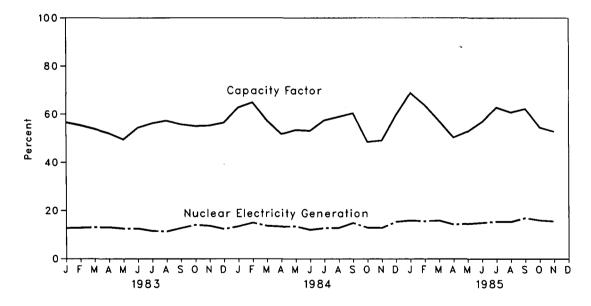
Monthly Energy Review November 1985 Energy Information Administration

Nuclear Power Plant Operations



Electricity Generated by Utilities and by Nuclear Power Plants

Nuclear Portion of Electricity Generation and Capacity Factor



Nuclear Power Plant Operations

| | | Operable Reactors ^{1 2} | Nuclear-Based Electricity Generation | Nuclear Portion of Domestic Electricity Generation | Maximum Dependable Capacity of Operable Reactors ^{1 3} | Capacity Factor |
|------|----------------------|-------------------------------------|--|--|---|--------------------|
| | | | Million net kilowatthours | Percent | Million net kilowatts | Percent |
| 1973 | Year | 39 | 83,479 | 4.5 | 22.900 | 52.9 |
| 1974 | Year | 48 | 113,976 | 6.1 | 31.710 | 48.3 |
| 1975 | Year | 54 | 172,505 | 9.0 | 33.312 | 59.7 |
| 1976 | Year | 60 | 191,104 | 9.4 | 43.277 | 57.8 |
| 1977 | Year | 65 | 250,883 | 11.8 | 46.046 | 64.1 |
| 1978 | Year | 70 | 276,403 | 12.5 | 49.629 | 65.7 |
| 1979 | Year | 68 | 255,155 | 11.4 | 49.326 | 58.7 |
| 1980 | Year | 70 | 251,116 | 11.0 | 51.059 | 57.1 |
| 1981 | Year | 74 | 272,674 | 11.9 | 55.534 | 58.4 |
| 1982 | Year | 77 | 282,773 | 12.6 | 59.552 | 57.2 |
| 1983 | January | 77 | 25,073 | 12.8 | 59.532 | 56.6 |
| | February | 77 | 22,198 | 12.9 | 59.632 | 55.4 |
| | March | 77 | 23,890 | 13.1 | 59.632 | 53.9 |
| | April May | 77 78 | 22,335 | 13.1 | 59.658 | 52.1 |
| | June | 78 79 | 22,051 24,152 | 12.6 12.6 | 59.883 61.686 | 49.5 54.4 |
| | July | 79 | 25,602 | 11.6 | 61,230 | 56.2 |
| | August | 79 | 26,201 | 11.4 | 61.440 | 57.3 |
| | September | 80 | 25,007 | 12.8 | 62.227 | 55.8 |
| | October | 80 | 25,797 | 14.1 | 62.876 | 55.1 |
| | November | 80 | 25,010 | 13.7 | 62.809 | 55.3 |
| | December | 80 | 26,361 | 12.4 | 62.809 | 56.5 |
| 1984 | Year | 80 | 293,677 | 12.7 | 62.809 | 54.8 |
| 1304 | January February | 80 80 | 29,313 28,436 | 13:5 15.0 | 62.772 62.942 | 62.8 |
| | March | 81 | 27,345 | 13.7 | 64.036 | 64.9 57.4 |
| | April | 82 | 24,231 | 13.4 | 65.049 | 51.8 |
| | May | 82 | 25,867 | 13.5 | 64.986 | 53.5 |
| | June | 83 | 25,299 | 12.1 | 66.091 | 53.2 |
| | July | 83 | 28,284 | 12.8 | 66.091 | 57.5 |
| | August | 84 | 29,493 | 12.9 | 67.341 | 58.9 |
| | September October | 84 85 | 29,146 | 14.9 | 67.066 68.497 | 60.4 |
| | November | 86 | 24,774 24,575 | 13.0 12.9 | 69.534 | 48.5 49.1 |
| | December | 86 | 30,872 | 15.4 | 69.522 | 59.7 |
| | Year | 86 | 327,634 | 13.6 | 69.522 | 56.5 |
| 1985 | January | 87 | 36,186 | 15.9 | 70.667 | 68.8 |
| | February | 88 | 30,809 | 15.6 | 71.841 | 63.8 |
| | March | 89 | 31,041 | 15.9 | 72.931 | 57.2 |
| | April May | 89 | 26,458 | 14.3 | 72.911 | 50.4 |
| | June | 89 91 | 28,697 30,837 | 14.6 15.0 | 72.920 | 52.9 56 0 |
| | July | 92 | 35,184 | R15.5 | 75.262 75.180 | 56.9 62.9 |
| | August | 94 | 34,812 | 15.4 | 76.897 | 60.8 |
| | September | 94 | 34,508 | 17.0 | 76.955 | 62.3 |
| | October | 94 | 31,205 | 16.0 | 76.877 | 54.6 |
| | November | 95 | 30,166 | 15.6 | † 79.159 | †52.9 |
| | | | | | | |

Monthly data are the status as of the last day of the month. Yearly data are the status as of December 31 of each year. See Note 1 on the last page of this section for the definition. When possible, net maximum dependable capacity (MDC) is used. When a reactor has not operated long enough to permit determination of a net MDC, the net design electrical rating (DER) is used. The capacities for some units have been reduced to reflect the imposition of a "power limit" by the Nuclear Regulatory Commission or by the operating utility. For the definitions of net MDC and net DER, see Note 3 on the last page of this section. 4For an explanation of the method of calculating the capacity factor, see Note 4 on the last page of this section. 4Preliminary data. R = Revised data. Note: • Geographic coverage is the 50 States and the District of Columbia. Sources: • See the last page of this section.

Status of Nuclear Reactor Units¹

| | • | | ensed peration | Constr Pern | | ÷ | | | Total |
|------|-----------|-----------------------|-------------------------|----------------|---------|----------|-----------|-------|--------------------------|
| | | Operable ² | In Startup ³ | Granted | Pending | On Order | Announced | Total | Design Capacity⁴ |
| | | | | | | | | | Million net kilowatts |
| 1973 | Year | 39 | 3 | 51 | 58 | 48 | 20 | 219 | 212 |
| 1974 | Year | 48 | 5 | 58 | 80 | 28 | 16 | 235 | 234 |
| 1975 | Year | 54 | 2 | 69 | 73 | 19 | 19 | 236 | 236 |
| 1976 | Year | 60 | 1 | 72 | 66 | 16 | 19 | 234 | 236 |
| 1977 | Year | 65 | 1 | 80 | 52 | 13 | 9 | 220 | 220 |
| 1978 | Year | 70 | 0 . | 90 | 32 | 9 | 4 | 205 | 204 |
| 1979 | Year | 68 | · 0 | 91 | 21 | 3 | Ō | 183 | 179 |
| 1980 | Year | 70 | 2 | 82 | 12 | 3 | ŏ | 169 | 163 |
| 1981 | Year | 74 | 0 | 75 | 11 | 3 | 0 | 163 | 103 |
| 1982 | Year | 74 | 2 | 60 | 3 | | | | |
| | rear | | ۷. | 60 | 3 | 2 | 0 | 144 | 135 |
| 1983 | January | | 2 | 60 | 3 | 2 | 0 | 144 | 135 |
| | February | 77 | 2 | 60 | 3 | 2 | 0 | 144 | 135 |
| | March | 77 | 3 | 59 | 3 | 2 | 0 | 144 | 135 |
| | April | . 77 | 4 | 57 | 3 | 2 | 0 | 143 | 134 |
| | May | 78 | 3 | 57 | 3 | 2 | 0 | 143 | 134 |
| | June | 79 | 2 | 57 | 3 | 2 | 0 | 143 | 134 |
| | July | · 79 | 2 | 57 . | 3 | 2 | 0 | 143 | 134 |
| | August | 79 | 2 | 57 | 3 | 2 | 0 | 143 | 134 |
| | September | 80 | 1 | 57 | 3 | 2 | 0 | 143 | 134 |
| | October | 80 | 1 | 56 | 2 | 2 | 0 | 141 | 133 |
| | November | 80 | 1 | 56 | 0 | 2 | 0 | 139 | 131 |
| | December | 80 | 3 | 53 | 0 | 2 | 0 | 138 | 129 |
| 1984 | January | 80 | 3 | 51 | 0 | 2 | 0 | 136 | 128 |
| | February | 80 | 3 | 51 | ŏ | 2 | õ | 136 | 128 |
| | March | 81 | 3. | 50 | õ | 2 | õ | 136 | 128 |
| | April | 82 | 3 | 49 | ō | 2 | Õ | 136 | 128 |
| | May | 82 | 3 | 49 | Ō | 2 | õ | 136 | 128 |
| | June | 83 | 3 | 48 | Ō | 2 | Ō | 136 | 128 |
| | July | 83 | 3 | 48 | 0 | 2 | Ō | 136 | 128 |
| | August | 84 | . 2 | 44 | 0 | 2 | 0 | 132 | 123 |
| | September | 84 | 2 | 44 | 0 | 2 | 0 | 132 | 123 |
| | October | 85 | 3 | 42 | 0 | 2 | 0 | 132 | 123 |
| | November | 86 | 2 | 42 | 0 | 2 | 0 | 132 | 123 |
| | December | 86 | 6 | 38 | 0 | 2 | 0 | 132 | 123 |
| 1985 | January | 87 | 5 | 38 | 0 | 2 | 0 | 132 | 123 |
| | February | 88 | 4 | 38 | 0 | 2 | 0 | 132 | 123 |
| | March | 89 | 5 | 36 | 0 | 2 | 0 | 132 | 123 |
| | April | 89 | 6 | 35 | 0 | 2 | 0 | 132 | 123 |
| | May | 89 | 6 | 35 | 0 | 2 | 0 | 132 | 123 |
| | June | 91 | 4 | 35 | 0 | 2 | 0 | 132 | 123 |
| | July | 92 | 3 | 33 | 0 | 2 | 0 | 130 | 121 |
| | August | 94 | 2 | 32 | 0 | 2 | 0 | 130 | 121 |
| | September | 94 | 2 | 32 | 0 | 2 | 0 | 130 | 121 |
| | October | 94 | 2 | 32 | 0 | 2 | 0 | 130 | 121 |
| | November | 95 | 2 | 31 | 0 | 2 | 0 | 130 | 121 |
| | | | | | | | | | |

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¹Monthly data are the status as of the last day of the month. Annual data are the status as of December 31 of each year. ²See Note 1 on the last page of this section for the definition. ³See Note 2 on the last page of this section for the definition. ⁴Net design electrical rating (DER) is used because many of the units have not had the operational experience needed to determine a net maximum dependable capacity (MDC). See Note 3 on the last page of this section. Note: • Geographic coverage is the 50 States and the District of Columbia. Sources: • See the last page of this section.

Notes and Sources for the Nuclear Section

Notes

1. Operable Reactors: Units that have received Operating Licenses, completed low-power testing, and are authorized to operate at full power (i.e., in receipt of a Full Power Amendment) by the Nuclear Regulatory Commission (NRC), plus the Hanford-N reactor operated by the Department of Energy (DOE). The Hanford-N reactor, with a net capacity of 860 megawatts electric (MWe), is included, although it is not licensed by the NRC, because electricity produced from its output steam is distributed commercially. Similarly, the Shippingport reactor (net capacity of 60 MWe) operated by DOE, was included prior to retirement from service on October 1, 1982, except for the interval from March 1974 through August 1977 when it was excluded because of a major core modification outage. The DOE-operated Experimental Breeder Reactor-2 (EBR-2) is not included because the electricity it generates is not distributed commercially. Five units, each of which has been inoperative for at least 4 years prior to January 1, 1984, are deleted from entries subsequent to their removal from service: Peach Bottom-1 (net capacity of 40 MWe) and Indian Point-1 (net capacity of 265 MWe), both out of service since November 1974; Humboldt Bay (net capacity of 65 MWe), down since August 1976 for major seismic modifications and subsequently officially retired; Dresden-1 (net capacity of 200 MWe), out of service since January 1979 for major modifications and officially retired in August 1984; and Three Mile Island-2 (net capacity of 906 MWe), whose core was severely damaged by a loss-of-coolant accident in March 1979.

2. In Startup: Units that have received Operating Licenses authorizing fuel loading and low-power testing but have not received a Full Power Amendment from the NRC. Without the amendment, these units cannot distribute electricity commercially.

3. Capacity: Nuclear power plants may have more than one type of net capacity rating including:

(a) Net Maximum Dependable Capacity (MDC)—The gross electrical output measured at the output terminals of the turbine generator(s) during the most restrictive seasonal conditions (usually summer) less the station service load. The typical station service load for a nuclear plant is about 5 percent of its gross generation.

(b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of the unit, specified by the utility and used for plant design.

4. Monthly Capacity Factors: The monthly capacity factors are computed as the actual monthly generation divided by the maximum possible generation for that month. The maximum possible generation is the number of hours in the month multiplied by the net monthly maximum dependable capacity. This fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are averages of the monthly values for that year.

Sources

Reactors Licensed for Operation: Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors.

Electricity Generation: • 1973 through September 1977--Federal Power Commission, Form 4, "Monthly Power Plant Report."

October 1977 through 1981—Federal Energy Regulatory

Commission, FPC Form 4, "Monthly Power Plant Report." • 1982 forward—Energy Information Administration, Form EIA-759, "Monthly Power Plant Report." Maximum Dependable Capacity: Nuclear Regulatory Com-mission Report NUREG-0020, "Licensed Operating Reac-

tors

Capacity Factor: Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels. Reactor Construction and Planning Data: • 1973 through

June 1982—Compiled from various sources, primarily the Department of Energy, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones," Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors," and from the Energy Information Administration, Office of Coal, Nuclear Electric and Altranzo Evolo Nuclear, Electric, and Alternate Fuels.

 July 1982 forward—Nuclear Regulatory Commission Re-port NUREG-0871, "Summary Information Report," Nuclear Regulatory Commission Report NUREG-0020, "Licensed Regulatory Commission Report NUREG-0020, Operating Reactors," and various trade journals.

Total Design Capacity: Nuclear Regulatory Commission report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0871, "Summary Information Report."

Crude Oil

The average price of domestic crude oil purchased at the wellhead was \$24.31 per barrel in November 1985, 1.0 percent above the previous month's level but 4.4 percent below the level in November 1984.

During November 1985, the composite refiner acquisition cost of crude oil was \$26.85 per barrel, 5.1 percent below the November 1984 average. The cost of imported crude oil increased \$0.31 per barrel from the October 1985 level to \$27.11 per barrel in November, 5.7 percent below the November 1984 average. The cost of domestic crude oil in November 1985 was \$26.72, a decrease of 4.9 percent from the November 1984 average.

Motor Gasoline

The national city average retail price of unleaded regular gasoline at all types of stations was \$1.21 per gallon in December 1985, slightly higher than the price in the previous month. The price of unleaded premium gasoline averaged \$1.34 per gallon in December, 0.4 percent higher than during November 1985. Average prices in 1985 were slightly lower than in 1984, declining 1.2 percent for leaded regular, 0.8 percent for unleaded regular, and 1.9 percent for unleaded premium.

Residual Fuel Oil

The average price, excluding taxes, of residual fuel oil sold to end users (utilities, industry, and other ultimate consumers) in November 1985 was \$0.57 per gallon, 2.6 percent below the previous month's price and 16.3 percent below the November 1984 average. The average price, excluding taxes, of residual fuel oil sold to other-than-ultimate consumers for resale in November 1985 was \$0.53 per gallon, 2.9 percent below the October 1985 average and 17.5 percent below the November 1984 average.

Aviation Fuel

The average price, excluding taxes, of aviation gasoline sold to end users in November 1985 was \$1.18 per gallon, 0.6 percent below the price in the previous month and 0.9 percent below the price in November 1984. The average price, excluding taxes, of kerosenetype jet fuel sold to end users in November 1985 was \$0.80 per gallon, up 1.6 percent from the previous month's price but down 2.8 percent from the price 1 year earlier.

No. 2 Distillate Fuel Oil

The national average price of heating oil sold to residential customers in November 1985 was \$1.09 per gallon. This was 5.4 percent above the price in October 1985 and 3.1 percent above the November 1984 price. The average price for resale was \$0.85 per gallon in November 1985, 3.9 percent above the price in the previous month, and 6.9 percent above the price in November 1984.

Natural Gas

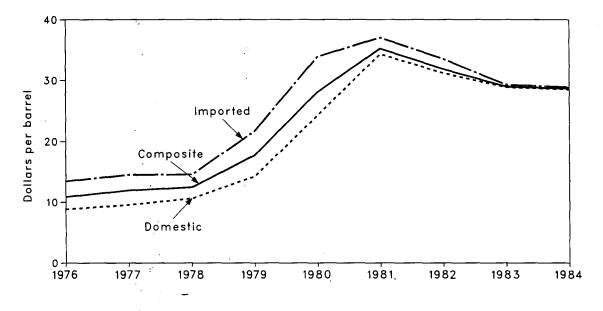
In October 1985 the average wellhead price of marketed natural gas production was \$2.49 per thousand cubic feet, \$0.02 less than in September 1985 and \$0.14 (5.3 percent) below the October 1984 price. The average price of natural gas delivered to electric utility plants was \$3.44 per thousand cubic feet in October 1985, \$0.02 more than the September 1985 price but \$0.31 (8.3 percent) below the October 1984 price. The average price of natural gas used by residential consumers in November 1985 was \$6.15 per thousand cubic feet, \$0.15 (2.4 percent) less than the November 1984 price.

Electricity

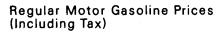
The average retail price of electricity sold by selected privately owned utilities to residential consumers in November 1985 was 7.73 cents per kilowatthour, 4.0 percent below the October 1985 price but 1.4 percent above the November 1984 price. The average price of electricity sold to commercial consumers was 7.49 cents per kilowatthour in November 1985, a 2.1-percent decrease from the previous month's price but up 0.8 percent from the November 1984 price. The average electricity price to industrial users during November 1985 was 5.10 cents per kilowatthour, a decrease of 1.7 percent from the previous month's price but 0.8 percent more than during November 1984.

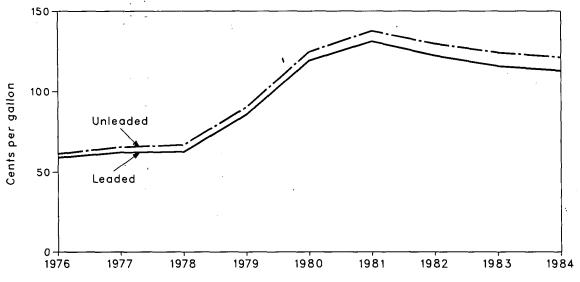
Selected Petroleum Series

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Crude Oil Price Summary

| | | Actual Domestic Average FOB Average Cost of Crude | | Average Landed | Refiner Ac | quisition Cost of | Crude Oil* |
|------|-------------|---|--------------------------|---|-----------------|-------------------|----------------|
| | | Average Wellhead Price | Oil Imports ² | Cost of Crude Oil Imports ³ | Domestic | Imported | Composite |
| | | | | Dollars per | barrel | | |
| 1976 | Average | 8.19 | 12.17 | 13.34 | 8.84 | 13.48 | 10.89 |
| 1977 | Average | 8.57 | 13.24 | 14.31 | 9.55 | 14.53 | 11.96 |
| 1978 | Average | 9.00 | 13.30 | 14.38 | 10.61 | 14.57 | 12.46 |
| 1979 | Average | 12.64 | 20.19 | 21.65 | 14.27 | 21.67 | 17.72 |
| 1980 | Average | 21.59 | 32.27 | 33.95 | 24.23 | 33.89 | 28.07 |
| 1981 | Average | 31.77 | 35.10 | 36.52 | 34.33 | 37.05 | 35.24 |
| 1982 | Average | 28.52 | 32.11 | 33.18 | 31.22 | 33.55 | 31.87 |
| 1983 | January | 27.22 | 29.47 | 30.62 | 30.55 | 31.40 | 30.73 |
| | February | 26.41 | 27.79 | 29.08 | 29.16 | 30.76 | 29.49 |
| | March | 26.08 | 26.88 | 27.84 | 28.69 | 28.43 | 28.64 |
| | April | 25.85 | 27.18 | 28.24 | 28.45 | 27.95 | 28.33 |
| | May | 26.08 | 27.36 | 28.55 | 28.68 | 28.53 | 28.64 |
| | June | 25.98 | 27.71 | 29.00 | 28.67 | 29.23 | 28.85 |
| | July | 25.86 | 27.84 | 28.99 | 28.74 | 28.76 | 28.75 |
| | August | 26.03 | 27.89 | 29.22 | 28.58 | 29.50 | 28.88 |
| | September | 26.08 | 27.88 | 29.24 | 28.69 | 29.54 | 28.97 |
| | October | 26.04 | 27.84 | 29.08 | 28.88 | 29.67 | 29.14 |
| | November | 26.09 | 27.75 | 28.93 | 28.76 | 29.09 | 28.85 |
| | December | 25.88 | 27.50 | 28.58 | 28.62 | 29.30 | 28.83 |
| | Average | 26.19 | 27.73 | 28.93 | 28.87 | 29.30 | 28.99 |
| 1984 | January | 25.93 | 27.56 | 28.49 | 28.62 | 28.80 | 28.67 |
| | February | 26.06 | 27.78 | 28.89 | 28.76 | 28.91 | 28.81 |
| | March | 26.05 | 27.70 | 28.69 | 28.75 | 28.95 | 28.81 |
| | April | 25.93 | 27.84 | 28.91 | 28.63 | 29.11 | 28.77 |
| | May June | 26.00 26.09 | 27.87 27.78 | 28.94 28.89 | 28.65 28.58 | 29.26 29.19 | 28.83 |
| | July | 26.09 | 27.19 | 28.32 | 28.70 | 29.00 | 28.77 28.79 |
| | August | 26.02 | 27.29 | 28.20 | 28.59 | 28.92 | 28.69 |
| | September | 25.97 | 27.14 | 28.14 | 28.56 | 28.70 | 28.60 |
| | October | 25.92 | 27.15 | 28.18 | 28.46 | 28.79 | 28.56 |
| | November | 25.44 | 26.91 | 27.88 | 28.10 | 28.74 | 28.30 |
| | December | 25.05 | 26.69 | 27.69 | 27.95 | 28.02 | 27.97 |
| | Average | 25.88 | 27.44 | 28.46 | 28.53 | 28.88 | 28.63 |
| 1985 | January | 24.28 | 26.10 | 26.95 | 26.89 | 27.51 | 27.02 |
| | February | 23.63 | 25.90 | 26.82 | 26.39 | 27.05 | 26.53 |
| | March | 23.88 | 26.32 | 27.14 | 26.61 | 27.23 | 26.77 |
| | April | 24.15 | 26.58 | 27.47 | 26.79 | 27.61 | 27.04 |
| | May | 24.18 | 26.25 | 27.13 | 26.90 | 27.62 | 27.11 |
| | June | 24.03 | 25.69 | 26.47 | 26.50 | 27.27 | 26.69 |
| | July | 24.00 | 25.41 | 26.20 | 26.67 | 26.46 | 26.61 |
| | August | 23.92 | 25.48 | 26.22 | 26.45 | 26.62 | 26.50 |
| | September | 23.93 | R25.43 | R26.46 | 26.39 | 26.59 | 26.44 |
| | October | 24.06 24.31 | R†25.80 25.81 | R†26.79 26.86 | R26.59 26.72 | 26.80 | 26.65 |
| | November† | 24.31 | 20.01 | 20.00 | 20.12 | 27.11 | 26.85 |

¹See Note 1 in the Notes and Sources for this section. ³See Note 2 in the Notes and Sources for this section. ³See Note 3 in the Notes and Sources for this section. ⁴See Note 4 in the Notes and Sources for this section. [†]Preliminary data. R=Revised data. Note: • Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Poerseione Possessions. Sources: • See the Notes and Sources for this section.

FOB Cost of Crude Oil Imports from Selected Countries¹

| | | Algeria | Indonesia | Iran | Mexico | Nigeria | Saudi Arabia | United Kingdom | Venezuela |
|------|----------------------|----------------|------------|--------|----------------|----------------|-----------------|-------------------|----------------|
| | | | | | Dollars | per barrel | | | |
| 1976 | Average | 13.05 | 12.76 | 11.61 | NA | 13.08 | 11.69 | NA | 11.32 |
| 1977 | Average | 14.36 | 13.57 | 12.67 | 13.42 | 14.44 | 12.37 | NA | 12.68 |
| 1978 | Average | 14.10 | 13.64 | 12.65 | 13.24 | 14.04 | 12.70 | 13.82 | 12.45 |
| 1979 | Average | 20.65 | 19.35 | 23.71 | 20.29 | 21.80 | 17.63 | 21.20 | 17.37 |
| 1980 | Average | 36.57 | 32.37 | (2) | 31.11 | 35.82 | 28.53 | 34.58 | 24.78 |
| 1981 | Average | 39.09 | 35.93 | (2) | 33.13 | 38.53 | 32.48 | 36.08 | 28.86 |
| 1982 | Average | 34.23 | 35.27 | 30.93 | 28.07 | 35.13 | 33.50 | 33.46 | 23.77 |
| 1983 | January | w | 34.71 | W | 26.90 | w | W | 32.77 | 21.58 |
| | February | W | 33.74 | W | 25.69 | W | W | 30.95 | 21.82 |
| | March | 31.07 | 29.69 | W | 24.53 | 29.52 | 30.03 | 29.16 | 20.04 |
| | April | 29.37 | 29.57 | W | 24.18 | 29.63 | W | 30.07 | 20.05 |
| | May | 29.54 | 29.31 | W | 24.60 | 29.72 | W | 29.61 | 19.88 |
| | June | 29.80 | 29.59 | W | 24.13 | 29.57 | w | 28.92 | 20.80 |
| | July | 30.15 | 29.73 | 28.41 | 24.92 | 29.81 | 27.91 | 30.00 | 19.89 |
| | August | 30.32 | 29.60 | 28.19 | 25.15 | 29.92 | 27.83 | 29.88 | 21.56 |
| | September | 30.33 | 29.77 | 28.03 | 25.10 | 29.59 | 27.73 | 30.33 | 21.81 |
| | October | 29.98 | 29.81 | 28.29 | 25.72 | 30.23 | 28.24 | 29.73 | 23.58 |
| | November | 29.75 | 30.34 | W | 25.76 | 29.99 | 28.22 | 29.42 | 23.17 |
| | December | W | 29.77 | 28.30 | 26.20 | 29.60 | 27.18 | 29.05 | 24.17 |
| | Average | 30.06 | 29.93 | 28.25 | 25.19 | 29.78 | 28.03 | 29.84 | 21.48 |
| 1984 | January | 27.60 | 29.89 | W | 26.22 | 29.80 | 27.76 | 29.29 | 24.21 |
| | February | 28.56 | 29.09 | W | 26.04 | 29.98 | 26.72 | 29.70 | 23.55 |
| | March | 28.69 | W | NA | 26.30 | 29.89 | 28.39 | 29.95 | 23.86 |
| | April | 28.90 | 29.50 | W | 26.07 | 29.93 | 28.17 | 29.85 | 23.93 |
| | May | 28.98 | 29.44 | W | 26.36 | 29.67 | 27.43 | 29.93 | 24.07 |
| | June | 28.52 | 29.35 | NA | 26.58 | 29.34 29.22 | W W | 29.67 | 24.23 |
| | July | 27.43 26.97 | 29.21 W | W W | 26.62 26.71 | 29.22 | W | 28.91 28.13 | 24.37 23.91 |
| | August | 26.97 | 28.83 | NA | 26.71 | 29.02 | 27.99 | 27.99 | 23.91 |
| | September October | 26.90 | 28.93 | NA | 26.34 | 29.24 | 27.99 W | 28.50 | 24.37 |
| | November | 26.50 | 28.68 | NA | 26.53 | 28.32 | NA | 27.61 | 24.24 |
| | December | 25.13 | 28.03 | NA | 26.43 | 28.11 | NA | 27.85 | 24.32 |
| | Average | 28.04 | 29.10 | 26.93 | 26.37 | 29.39 | 27.60 | 28.90 | 24.16 |
| 1985 | January | 25.47 | 27.43 | NA | 26.10 | 27.22 | w | W | 24.02 |
| | February | w | 27.62 | NA | 26.00 | 27.41 | W | w | 24.36 |
| | March | 26.50 | 27.01 | W | 26.31 | 28.20 | NA | W | 24.93 |
| | April | .27.47 | 27.50 | w | 26.33 | 27.95 | NA | 28.09 | 24.49 |
| | May | W | 27.44 | w | 26.24 | 27.77 | NA | 27.41 | 24.52 |
| | June | W | 27.06 | W | 24.75 | 27.09 | NA | 26.65 | 24.32 |
| | July | W | 27.44 | W | 24.25 | 27.95 | NA | 26.58 | 23.13 |
| | August | NA | 26.60 | W | 24.69 | 27.82 | NA | 26.98 | 22.58 |
| | September | W | R25.29 | W | 24.59 | R27.97 | w | 27.67 | 22.49 |
| | October† | W | R26.95 | W | R24.78 | 28.30 | W | R28.22 | R22.81 |
| | November† | w | 27.29 | ۰W | 24.37 | 28.67 | NA | 28.65 | 22.96 |

¹The Free on Board (FOB) cost at the country of origin excludes all costs related to insurance and transportation. See Note 2 in the Notes and Sources for this section. ²No crude oil was imported. ⁴Preliminary data. R = Revised data. NA=Not available. W=Value withheld to avoid disclosure of company data. Note: • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. Annual averages are the weighted average of the 12 monthly prices including those prices that were not published. Sources: • See the Notes and Sources for this section.

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Landed Cost of Crude Oil Imports from Selected Countries¹

| | | Algeria | Canada | Indonesia | iran | Mexico | Nigeria | Saudi Arabia | United Kingdom | Venezuela |
|------|-----------|-------------------|--------|-----------|-------|---------------|-------------------|-----------------|-------------------|-----------|
| | | , ago da | | | | ollars per ba | • | | | |
| 1975 | Average | 12.72 | 12.72 | 13.79 | 12.21 | NA | 12.62 | 12.30 | NA | 11.65 |
| 1976 | Average | 13.81 | 13.57 | 13.82 | 12.82 | NA | 13.80 | 13.04 | NA | 11.80 |
| 1977 | Average | 15.20 | 14.21 | 14.63 | 13.80 | 13.75 | 15.25 | 13.61 | NA | 13.13 |
| 1978 | Average | 14.91 | 14.50 | 14.64 | 13.88 | 13.75 | 14.86 | 13.92 | NA | 12.83 |
| 1979 | • | 21.90 | 20.43 | 20.69 | 25.02 | 20.86 | 22.96 | 13.52 | 22.16 | 18.18 |
| 1979 | Average | | | | | | | | | |
| | Average | 37.90 | 30.47 | 33.92 | (2) | 31.80 | 37.05 | 30.02 | 35.88 | 25.86 |
| 1981 | Average | 40.49 | 32.16 | 37.57 | (2) | 33.78 | 39.70 | 34.19 | 37.24 | 29.87 |
| 1982 | Average | 35.28 | 26.92 | 36.75 | 32.40 | 28.64 | 36.17 | 35.00 | 34.28 | 24.82 |
| 1983 | January | 33.20 | 27.62 | 36.12 | W | 27.50 | w | W | 33.48 | 23.20 |
| | February | 32.17 | 26.19 | 35.07 | w | 26.15 | 32.24 | w | 33.33 | 23.36 |
| | March | 31.24 | 24.78 | 31.17 | w | 25.06 | 30.49 | 31.63 | 29.92 | 21.48 |
| | April | 30.55 | 24.35 | 31.14 | W | 24.65 | 30.63 | w | 30.84 | 21.45 |
| | May | 30.48 | 24.32 | 30.82 | W | 25.17 | 30.75 | W | 30.60 | 21.24 |
| | June | 30.88 | 24.88 | 31.40 | 29.10 | 24.81 | 30.56 | W | 30.02 | 22.07 |
| | July | 31.36 | 25.45 | 31.46 | 30.06 | 25.34 | 30.91 | 29.53 | 30.86 | 21.30 |
| | August | 31.85 | 25.45 | 31.65 | 29.57 | 25.80 | 31.21 | 29.39 | 30.83 | 22.82 |
| | September | 31.78 | 25.71 | 31.27 | 29.31 | 25.66 | 30.70 | 29.53 | 31.39 | 23.12 |
| | October | 30.97 | 26.01 | 31.14 | 29.73 | 26.44 | 31.16 | 29.98 | 30.79 | 24.75 |
| | November | 30.96 | 25.83 | 31.30 | W | 26.29 | 31.02 | 29.88 | 30.33 | 24.68 |
| | December | 30.23 | 26.69 | 31.12 | 28.57 | 26.88 | 30.57 | 28.83 | 30.00 | 24.91 |
| | Average | 31.26 | 25.63 | 31.57 | 29.81 | 25.78 | 30.84 | 29.76 | 30.87 | 22.94 |
| 1984 | January | 29.19 | 26.44 | 31.22 | w | 26.85 | 30.62 | 29.67 | 30.09 | 25.28 |
| • | February | 29.73 | 26.40 | 30.91 | w | 26.73 | 31.29 | 28.38 | 30.77 | 25.21 |
| | March | 30.31 | 26.01 | 30.81 | NA | 26.92 | 30.93 | 30.20 | 30.98 | 24.75 |
| | April | 29.81 | 26.10 | 31.02 | -W | 26.68 | 31.08 | 29.95 | 30.73 | 24.86 |
| | May | 29.96 | 27.12 | 30.80 | W | 26.92 | 30.96 | 28.95 | 30.75 | 24.93 |
| | June | 29.62 | 26.00 | 31.21 | NA | 27.24 | 31.05 | 29.90 | 30.43 | 25.29 |
| | July | 28.63 | 27.16 | 30.26 | W | 26.98 | 30.07 | W | 29.54 | 25.24 |
| | August | 28.16 | 26.95 | 30.59 | W | 26.99 | 29.9 9 | W | 28.93 | 24.95 |
| | September | 27.94 | 27.03 | 30.05 | W | 26.66 | 30.60 | 29.75 | 28.81 | 25.29 |
| | October | 28.42 | 26.82 | 30.11 | W | 26.80 | 29.47 | 28.57 | 29.27 | 25.49 |
| | November | 28.12 | 26.33 | 30.03 | W | 26.78 | 29.45 | NA | 28.39 | 25.35 |
| | December | 27.07 | 26.50 | 30.12 | NA | 26.86 | 29.32 | NA 00.50 | 28.55 | 25.24 |
| | Average | 29.08 | 26.59 | 30.64 | 28.67 | 26.87 | 30.50 | 29.50 | 29.60 | 25.15 |
| 1985 | January | 26.28 | 24.99 | 29.26 | NA | 26.46 | 28.70 | w | W | 25.18 |
| | Februáry | 26.06 | 24.00 | 28.73 | NA | 26.37 | 28.55 | w | w | 25.37 |
| | March | 27.0 9 | 25.13 | 28.40 | w | 26.60 | 29.42 | NA | w | 25.69 |
| | April | 28.28 | 26.16 | 29.02 | w | 26.60 | 28.99 | w | 28.57 | 25.44 |
| | Мау | W | 26.33 | 28.98 | w | 26.56 | 28.69 | NA | 27.98 | 25.26 |
| | June | W | 26.34 | 28.73 | 24.55 | 25.16 | 27.81 | NA | 27.42 | 25.13 |
| | July | 27.35 | 25.96 | 28.95 | W | 24.54 | 28.56 | W | 27.28 | 23.81 |
| | August | W | 26.05 | 28.01 | 25.70 | 24.85 | 28.54 | NA | 27.69 | 23.45 |
| | September | W | 25.88 | R26.79 | 26.47 | 24.92 | R28.75 | W | 28.22 | 23.29 |
| | October† | W | R25.82 | R28.47 | 26.59 | R25.12 | R29.06 | 27.06 | R29.00 | R23.55 |
| | November† | W | 25.75 | 29.00 | w | 24.70 | 29.73 | 27.20 | 29.39 | 23.67 |

¹See Note 3 in the Notes and Sources for this section.

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Note: In the votes and sources for this section.
 No crude oil was imported.
 Preliminary data. R = Revised data. NA = Not available. W = Value withheld to avoid disclosure of company data.
 Note: Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. Annual averages are the weighted average of the 12 monthly prices including those prices that were not published.
 Sources: See the Notes and Sources for this section.

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U.S. City Average Retail Prices for Motor Gasoline¹

| | | Leaded Regular | Unleaded Regular | Unleaded Premium | Average for All Types ² | 4 |
|------|----------------------|-------------------|---------------------|---------------------|--|---|
| | | | Cents per gallo | on, including tax | | |
| 1974 | Average | 53.2 | NA | NA | NA | |
| 1975 | Average | 56.7 | NA | NA | NA | |
| 1976 | Average | 59.0 | 61.4 | NA | NA | |
| 1977 | Average | 62.2 | 65.6 | NA | NA | |
| 1978 | Average | 62.6 | 67.0 | NA | 65.2 | |
| 1979 | Average | 85.7 | 90.3 | NA | 88.2 | |
| 1980 | Average | 119.1 | 124.5 | NA | 122.1 | |
| 1981 | Average ³ | 131.1 | 137.8 | 147.0 | 135.3 | |
| 1981 | Average | 122.2 | 129.6 | 141.5 | 128.1 | |
| 1983 | January | 114.6 | 122.8 | 137.6 | 121.3 | |
| 1903 | February | 109.9 | 118.7 | 133.8 | 117.0 | |
| | March | 105.5 | 115.1 | 130.8 | 113.5 | |
| | April | 113.1 | 121.5 | 136.0 | 119.8 | |
| | May | 117.7 | 125.9 | 139.7 | 124.3 | |
| | June | 119.7 | 127.7 | 141.1 | 124.0 | |
| | July | 120.7 | 128.8 | 142.1 | 127.2 | |
| | August | 120.3 | 128.5 | 141.9 | 126.9 | |
| | September | 118.9 | 127.4 | 141.0 | 125.7 | |
| | October | 117.2 | 125.5 | 139.5 | 123.9 | |
| | November | 115.6 | 124.1 | 138.4 | 122.4 | |
| | December | 114.6 | 123.1 | 137.6 | 121.5 | |
| | Average | 115.7 | 124.1 | 138.3 | 122.5 | |
| 1984 | January | 113.1 | 121.6 | 136.9 | 120.0 | |
| | February | 112.5 | 120.9 | 136.1 | 119.3 | |
| | March | 112.5 | 121.0 | 136.2 | 119.4 | |
| | April | 114.5 | 122.7 | 137.5 | 121.1 | |
| | May | 115.4 | 123.6 | 138.0 | 122.1 | |
| | June | 114.7 | 122.9 | 137.7 | 121.4 | |
| | July | 112.9 | 121.2 | 137.0 | 119.7 | |
| | August | 111.6 | 119.6 | 135.5 | 118.4 | |
| | September | 112.0 | 120.3 | 136.0 | 118.9 | |
| | October | 112.7 | 120.9 | 136.5 | 119.5 | |
| | November | 112.4 | 120.7 | 136.4 | 119.3 | |
| | December | 110.9 | 119.3 | 135.4 | 117.9 | |
| | Average | 112. 9 | 121.2 | 136.6 | 119.8 | |
| 1985 | January | 106.0 | 114.8 | 130.4 | 114.5 | |
| | February | 104.1 | 113.1 | 129.0 | 112.8 | |
| | March | 107.1 | 115.9 | 131.0 | 115.5 | |
| | April | 111.9 | 120.5 | 134.0 | 119.9 | |
| | May | 114.4 | 123.1 | 136.0 | 122.3 | |
| | June | 115.3 | 124.1 | 137.1 | 123.3 | |
| | July | 115.4 | 124.2 | 136.7 | 123.3 | |
| | August | 114.3 | 122.9 | 135.9 | 122.2 | |
| | September | 112.9 | 121.6 | 134.9 | 120.9 | |
| | October | 111.7 | 120.4 | 134.2 | 119.8 | |
| | November | 112.3 | 120.7 | 133.9 | 120.1 | |
| | December | 112.3 | 120.8 | 134.4 | 120.3 | |
| | Average | 111.5 | 120.2 | 134.0 | 119.6 | |

¹See Note 5 in the Notes and Sources for this section.

¹See Note 5 in the Notes and Sources for this section.
²Also includes types of gasoline not shown separately.
³Beginning with September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. In the average for all types category, gasohol is now included and unleaded premium is weighted more heavily.
NA=Not available.
Note: • Geographic coverage for 1974 through 1977 is 56 urban areas. For 1978 forward it is 85 urban areas.
Sources: • See the Notes and Sources for this section.

Monthly Energy Review November 1985 Energy Information Administration

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Refiner and Gas Plant Operator Sales Prices of Residual Fuel Oil¹

| | | Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent | | Sulfur | li Fuel Oll Content an 1 Percent | Average | | |
|------|--------------|--|-----------------------|---------------------|--|---------------------|-----------------------|--|
| | | Sales for Resale | Sales to End Users | Sales for Resale | Sales to End Users | Sales for Resale | Sales to End Users | |
| | | | | Cents per gallo | on, excluding tax | | | |
| 1978 | Average | 29.3 | 31.4 | 24.5 | 27.5 | 26.3 | 29.8 | |
| 1979 | Average | 45.0 | 46.8 | 36.6 | 38.9 | 39.9 | 43.6 | |
| 1980 | Average | 60.8 | 67.5 | 47.9 | 52.3 | 52.8 | 60.7 | |
| 1981 | Average | 74.8 | 82.9 | 62.2 | 67.3 | 66.3 | 75.6 | |
| 1982 | Average | 69.5 | 74.7 | 57.2 | 61.1 | 61.2 | 67.6 | |
| | - | | | | | - | | |
| 1983 | January | 65.0 | 70.5 | 57.0 | 60.1 | 60.3 | 64.2 | |
| | February | 63.0 | 66.0 | 55.7 | 58.5 | 58.5 | 62.0 | |
| | March | 60.0 | 66.2 | 55.9 | 57.0 | 57.7 | 60.9 | |
| | April | 60.1 | 64.3 | 56.5 | 58.7 | 57.7 | 61.0 | |
| | May | 62.6 | 66.9 | 57.8 | 59.7 | 59.2 | 63.2 | |
| | June | 63.2 | 69.2 | 58.5 | 60.1 | 60.2 | 64.7 | |
| | July | 65.2 | 70.4 | 60.5 | 61.4 | 62.2 | 65.9 | |
| | August | 66.7 | 71.6 | 62.0 | 63.2 | 63.8 | 67.7 | |
| | September | 67.0 | 72.6 | 63.3 | 65.3 | 64.6 | 69.0 | |
| | October | 68.8 | 72.1 | 62.6 | 64.9 | 64.7 | 68.7 | |
| | November | 66.5 | 70.7 | 62.2 | 64.4 | 63.6 | 67.4 | |
| | December | 67.3 | 72.0 | 60.2 | 63.1 | 62.3 | 67.2 | |
| | Average | 64.3 | 69.5 | 59.1 | 61.1 | 60.9 | 65.1 | |
| 1984 | January | 71.0 | 73.6 | 62.3 | 64.6 | 64.8 | 69.0 | |
| | February | 71.4 | 75.1 | 65.7 | 65.8 | 67.5 | 70.4 | |
| | March | 70.5 | 73.1 | 61.9 | 64.7 | 64.5 | 68.5 | |
| | April | 69.2 | 73.1 | 64.7 | 66.5 | 66.2 | 69.1 | |
| | May | 68.3 | 72.7 | 65.0 | 67.4 | 66.0 | 69.5 | |
| | June | 69.8 | 73.2 | 66.1 | 68.9 | 67.2 | 71.0 | |
| | July | 66.8 | 71.5 | 64.0 | 66.7 | 65.0 | 69.0 | |
| | August | 65.6 | 69.5 | 62.7 | 65.0 | 63.6 | 67.1 | |
| | September | 65.9 | 70.0 | 63.8 | 64.9 | 64.5 | 67.5 | |
| | October | 66.8 | 70.8 | 64.3 | 65.8 | 65.1 | 67.8 | |
| | November | 66.8 | 70.4 | 63.6 | 65.8 | 64.6 | 67.9 | |
| | December | 67.5 | 70.5 | 63.3 | 65.6 | 64.6 | 67.7 | |
| | Average | 68.5 | 72.0 | 63.9 | 65.9 | 65.4 | 68.7 | |
| 1985 | January | 67.6 | 71.1 | 63.3 | 66.5 | 64.7 | 68.4 | |
| 1905 | February | 67.6 | 71.2 | 63.4 | 66.3 | 65.0 | 68.7 | |
| | March | 66.2 | 70.1 | 60.8 | 65.0 | | | |
| | | 63.0 | | | | 62.4 | 67.2 | |
| | April May | 58.1 | 67.5 | 58.7 | 61.9 | 60.2 | 64.1 | |
| | May | | 61.2 | 53.4 50.6 | 58.0 | 54.9 | 59.5 | |
| | June | 54.9 | 59.9 | 50.6 | 52.8 | 52.4 | 55.6 | |
| | July | 56.4 | 58.9 | 52.8 | 54.6 | 53.9 | 56.4 | |
| | August | 55.1 | 57.7 | 52.1 | 53.7 | 53.2 | 55.8 | |
| | September | 60.1 | 62.8 | 53.1 | 54.8 | 56.1 | 58.6 | |
| | October | 60.1 | 63.6 | 52.3 | 53.8 | 54.9 | 58.3 | |
| | November† | 57.4 | 61.7 | 50.7 | 52.8 | 53.3 | 56.8 | |

¹Sales for Resale are those made to purchasers who are other-than-ultimate consumers, that is, wholesale sales. Sales to End Users are those made directly to the ultimate consumer including bulk customers such as agriculture, industry, and utilities, as well as residential and commercial customers. †Preliminary data. Notes: • Geographic coverage is the 50 States and the District of Columbia. •Prices prior to January 1983 are Energy Information Administration estimates. See Note 8 in the Notes and Sources for this section for additional information

additional information. Sources: •See the Notes and Sources for this section.

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Refiner and Gas Plant Operator Sales Prices of Petroleum Products for Resale¹

| | | Finished Motor Gasoline ² | Finished Aviation Gasoline | Kerosene- Type Jet Fuel | Kerosene | No. 2 Fuel Oil | No. 2 Diesel Fuel | Propane (Consumer Grade) |
|------|-----------|--|----------------------------------|-------------------------------|---------------------|----------------------|-------------------------|--------------------------------|
| | | | | 0 | | | | , , |
| | | | | Cents p | er gallon, excludin | ig tax | | |
| 1978 | Average | 43.4 | 53.7 | 38.6 | 40.4 | 36.9 | 36.5 | 23.7 |
| 1979 | Average | 63.7 | 72.1 | 66.0 | 62.4 | 56.9 | 57.4 | 29.1 |
| 1980 | Average | 94.1 | 112.8 | 86.8 | 86.4 | 80.3 | 80.1 | 41.5 |
| 1981 | Average | 106.4 | 125.0 | 101.2 | 106.6 | 97.6 | 97.2 | 46.6 |
| 1982 | Average | 97.3 | 122.8 | 95.3 | 101.8 | 91.4 | 91.4 | 42.7 |
| 1983 | January | 88.5 | 124.8 | 91.8 | 94.2 | 85.7 | 85.5 | 47.0 |
| | February | 85.4 | 123.7 | 89.9 | 90.0 | 80.1 | 80.7 | 46.7 |
| | March | 82.9 | 121.2 | 84.5 | 83.1 | 76.0 | 75.2 | 47.4 |
| | April | 86.5 | 120.0 | 82.9 | 84.2 | 78.9 | 76.8 | 50.0 |
| | May | 90.4 | 120.2 | 84.3 | 87.7 | 80.9 | 80.2 | 50.5 |
| | June | 91.5 | 115.0 | 84.1 | 84.6 | 80.9 | 80.3 | 50.9 |
| | July | 92.3 | 115.2 | 84.8 | 85.2 | 81.7 | 80.8 | 50.7 |
| | August | 91.5 | 114.7 | 85.4 | 86.7 | 83.4 | 81.7 | 49.8 |
| | September | 90.2 | 113.7 | 86.3 | 91.9 | 85.1 | 83.5 | 50.1 |
| | October | 88.1 | 118.9 | 86.4 | 90.8 | 83.5 | 83.0 | 49.9 |
| | November | 86.6 | 118.7 | 84.4 | 90.4 | 82.6 | 82.0 | 47.3 |
| | December | 83.8 | 118.8 | 83.6 | 88.6 | 80.7 | 80.1 | 45.4 |
| | Average | 88.2 | 117.8 | 85.4 | 89.2 | 81.5 | 80.8 | 48.4 |
| 1984 | January | 83.2 | 116.7 | 86.4 | 95.9 | 87.5 | 82.6 | 47.7 |
| | February | 83.8 | 116.5 | 86.5 | 100.4 | 89.2 | 84.5 | 47.4 |
| | March | 84.7 | 117.1 | 84.6 | 91.5 | 81.3 | 81.0 | 45.3 |
| | April | 86.9 | 116.8 | 84.2 | 90.7 | 82.8 | 80.8 | 44.6 |
| | May | 86.6 | 117.1 | 84.3 | .90.9 | 83.2 | 81.9 | 44.4 |
| | June | 84.5 | 116.8 | 84.2 | 88.1 | 82.4 | 81.9 | 44.1 |
| | July | 81.7 | 117.2 | 82.8 | 87.6 | 79.4 | 79.3 | 42.3 |
| | August | 81.1 | 116.7 | 81.0 | 86.0 | 77.8 | 77.7 | 43.2 |
| | September | 82.8 | 116.8 | 81.7 | 88.8 | 80.0 | 78.4 | 44.8 |
| | October | 83.6 | 116.4 | 82.9 | 88.9 | 80.8 | 80.0 | 46.1 |
| | November | 81.9 | 114.8 | 81.4 | 88.0 | 79.4 | 79.0 | 45.6 |
| | December | 78.0 | 114.0 | 80.1 | 86.4 | 77.1 | 77.0 | 43.0 |
| | Average | 83.2 | 116.5 | 83.0 | 91.6 | 82.1 | 80.3 | 45.0 |
| 1985 | January | 75.2 | 114.5 | 79.5 | 85.8 | 75.7 | 74.9 | 40.0 |
| | February | 76.3 | 114.0 | 79.3 | 86.5 | 75.2 | 74.1 | 39.4 |
| | March | 81.0 | 113.6 | 78.6 | 85.7 | 76.4 | 75.6 | 38.0 |
| | April | 86.0 | 112.6 | 79.5 | 84.7 | 79.3 | 79.1 | 37.9 |
| | May | 87.5 | 113.2 | 78.1 | 80.4 | 76.5 | 78.9 | 38.1 |
| | June | 87.7 | 113.7 | 76.0 | 75.9 | 72.9 | 75.5 | 37.1 |
| | July | 87.3 | 113.6 | 75.2 | 76.9 | 70.3 | 72.3 | 36.3 |
| | August | 85.0 | 113.3 | 76.8 | 79.7 | 72.0 | 72.5 | 36.5 |
| | September | 83.2 | 113.0 | 79.2 | 85.9 | 77.0 | 76.3 | . 37.6 |
| | October | 83.1 | 113.0 | 81.5 | 90.1 | 81.7 | R80.5 | 39.7 |
| | Novembert | 84.7 | 112.6 | 83.6 | 93.5 | 84.9 | 84.3 | 43.0 |

¹Sales for Resale are those made to purchasers who are other-than-ultimate consumers, that is, wholesale sales. Sales to End Users are those made directly to the ultimate consumer including bulk customers such as agriculture, industry, and utilities, as well as residential

those made directly to the ultimate consumer including bulk customers such as agriculture, industry, and ultitudes, as well as residential and commercial customers. *See Note 5 in the Notes and Sources for this section. †Preliminary data. R=Revised data. Notes: • Geographic coverage is the 50 States and the District of Columbia. •Prices prior to January 1983 are Energy Information Administration estimates. See Note 8 in the Notes and Sources for this section for additional information. Sources: • See the Notes and Sources for this section.

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Refiner and Gas Plant Operator Sales Prices of Petroleum Products to End Users¹

| | | Finished Motor Gasoline ² | Finished Aviation Gasoline | Kerosene- Type Jet Fuel | Kerosene | No. 2 Fuel Oil | No. 2 Diesel Fuel | Propane (Consumer Grade) |
|------|-----------|--|----------------------------------|-------------------------------|--------------------|----------------------|-------------------------|--------------------------------|
| | • | | | | | | | |
| | | | | Cents (| per gallon, exclud | ing tax | | |
| 1978 | Average | 48.4 | 51.6 | 38.7 | 42.1 | 40.0 | 37.7 | 33.5 |
| 1979 | Average | 71.3 | 68.9 | 54.7 | 58.5 | 51.6 | 58.5 | 35.7 |
| 1980 | Average | 103.5 | 108.4 | 86.8 | 90.2 | 78.8 | 81.8 | 48.2 |
| 1981 | Average | 114.7 | 130.3 | 102.4 | 112.3 | 91.4 | 99.5 | 56.5 |
| 1982 | Average | 106.0 | 131.2 | 96.3 | 108.9 | 90.5 | 94.2 | 59.2 |
| 1983 | January | 97.1 | 129.2 | 94.5 | 104.5 | 100.9 | 89.2 | 72.7 |
| | February | 92.5 | 127.2 | 92.6 | 101.4 | 97.0 | 84.0 | 71.7 |
| | March | 89.8 | 126.6 | 90.6 | 97.1 | 93.0 | 78.0 | 68.1 |
| | April | 94.7 | 125.2 | 88.8 | 93.4 | 89.1 | 78.8 | 68.6 |
| | May | 96.6 | 125.4 | 87.8 | 93.8 | 89.5 | 81.8 | 72.2 |
| | June | 97.8 | 125.6 | 86.3 | 90.0 | 87.3 | 81.5 | 67.3 |
| | July | 98.8 | 125.1 | 85.6 | 89.0 | 85.1 | 82.0 | 66.4 |
| | August | 98.4 | 125.9 | 85.5 | 90.8 | 86.1 | 83.0 | 68.9 |
| | September | 96.9 | 124.2 | 86.1 | 92.7 | 88.0 | 84.8 | 74.9 |
| | October | 95.4 | 124.7 | 86.0 | 98.9 | 89.0 | 84.2 | 69.6 |
| | November | 93.9 | 124.5 | 85.8 | 100.0 | 90.1 | 83.5 | 72.8 |
| | December | 92.4 | 124.4 | 85.5 | 96.6 | 92.1 | 82.2 | 76.4 |
| | Average | 95.4 | 125.5 | 87.8 | 96.1 | 91.6 | 82.6 | 70.9 |
| 1984 | January | 90.6 | 123.9 | 85.8 | 106.8 | 97.7 | 84.4 | 76.8 |
| | February | 90.2 | 123.7 | 86.5 | 117.9 | 104.6 | 87.4 | 76.3 |
| | March | 90.7 | 123.8 | 85.6 | 111.3 | 94.7 | 83.2 | 76.4 |
| | April | 92.9 | 124.4 | 85.1 | 105.8 | 91.9 | 82.4 | 76.5 |
| | May | 93.4 | 123.9 | 85.2 | 102.4 | 90.9 | 83.2 | 70.4 |
| | June | 92.5 | 124.6 | 84.5 | 94.3 | 86.9 | 84.0 | 70.6 |
| | July | 90.4 | 124.3 | 84.1 | 90.6 | 84.3 | 81.3 | 69.6 |
| | August | 89.2 | 123.2 | 83.4 | 92.8 | 82.8 | 79.7 | 71.9 |
| | September | 89.7 | 123.7 | 83.1 | 99.2 | 84.3 | 80.2 | 73.4 |
| | October | 90.5 | 123.3 | 83.2 | 102.7 | 87.3 | 81.6 | 74.1 |
| | November | 89.9 | 119.3 | 82.4 | 106.1 | 87.7 | 80.7 | 73.8 |
| | December | 88.0 | 121.9 | 82.2 | 101.4 | 88.1 | 79.4 | 70.0 |
| | Average | 90.7 | 123.4 | 84.2 | 103.6 | 91.6 | 82.3 | 73.7 |
| 1985 | January | 84.6 | 121.7 | 81.4 | 106.0 | 87.0 | 77.6 | 78.8 |
| | February | 83.6 | 121.1 | 80.9 | 103.7 | 86.1 | 76.7 | 76.1 |
| | March | 87.1 | 121.4 | 80.4 | 103.1 | 86.0 | 77.0 | 74.6 |
| | April | 92.4 | 121.2 | 80.1 | 101.0 | 85.8 | 79.9 | 75.7 |
| | May | 94.4 | 121.9 | 79.5 | 94.1 | 82.2 | 79.7 | 70.5 |
| | June | 95.2 | 121.7 | 78.6 | 88.2 | 77.8 | 77.2 | 66.8 |
| | July | 95.4 | 120.2 | 78.2 | 86.0 | 72.4 | 74.5 | 62.9 |
| | August | 94.0 | 118.9 | 77.7 | 89.9 | 74.4 | 73.8 | 62.9 |
| | September | 91.9 | 119.5 | 78.1 | 96.0 | 81.1 | 78.1 | 63.8 |
| | October | R90.8 | 118.9 | 78.8 | 100.4 | R85.2 | 81.6 | 69.7 |
| | November† | 91.9 | 118.2 | 80.1 | 106.7 | 91.2 | 85.4 | 72.2 |

¹Sales for Resale are those made to purchasers who are other-than-ultimate consumers, that is, wholesale sales. Sales to End Users are those made directly to the ultimate consumer including bulk customers such as agriculture, industry, and utilities, as well as residential

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those made directly to the ultimate consumer including bulk customers such as agriculture, industry, and utilities, as well as residential and commercial customers. "See Note 5 in the Notes and Sources for this section. †Preliminary data. R = Revised data. Notes: • Geographic coverage is the 50 States and the District of Columbia. •Prices prior to January 1983 are Energy Information Administration estimates. See Note 8 in the Notes and Sources for this section for additional information. Sources: • See the Notes and Sources for this section.

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Sales Prices of No. 2 Distillate to Residences for Selected States¹

| | | СТ | ME | MA | NH | RI | νт | DE | DC | MD | NJ | NY | ΡΑ | VA |
|------|---------------------|--------|-------|--------|-------|--------|-----------|-----------|-----------|-------|-------------------|--------|-------|--------|
| | | | | | | C | Cents per | gallon, e | excluding | tax | | | | |
| 1978 | Average | 50.1 | 48.6 | 48.8 | 50.3 | 50.7 | 50.8 | 47.8 | 50.7 | 49.2 | 49.6 | 50.1 | 48.8 | 49.1 |
| 1979 | Average | 72.0 | 68.8 | 70.9 | 72.5 | 72.8 | 72.5 | 68.2 | 74.2 | 70.1 | 71.0 | 71.2 | 69.8 | 70.4 |
| 1980 | Average | 98.0 | 96.3 | 97.8 | 100.4 | 101.1 | 101.5 | 95.4 | 102.6 | 97.9 | 97.9 | 98.2 | 96.4 | 98.5 |
| 1981 | Average | 121.7 | 120.4 | 121.3 | 123.7 | 123.8 | 125.4 | 117.3 | 127.4 | 121.4 | 121.5 | 123.2 | 118.1 | 120.5 |
| 1982 | Average | 118.3 | 115.5 | 117.6 | 117.4 | 120.1 | 120.1 | 111.3 | 124.5 | 117.1 | 117.4 | 120.5 | 113.7 | 117.7 |
| 1983 | • | 119.5 | 109.0 | 116.3 | 111.6 | 116.2 | 121.5 | 110.5 | 122.8 | 115.4 | 115.7 | 120.6 | 113.7 | 116.0 |
| 1903 | January February | 115.8 | 103.7 | 113.2 | 105.5 | 112.2 | 116.9 | 108.2 | 119.7 | 112.6 | 110.4 | 117.6 | 109.6 | 112.0 |
| | March | 108.3 | 97.4 | 105.4 | 100.8 | 106.8 | 109.6 | 103.9 | 115.3 | 108.2 | 104.6 | 110.2 | 103.0 | 106.9 |
| | April | 100.5 | 99.5 | 104.4 | 100.9 | 108.8 | 110.6 | 103.0 | 113.1 | 107.9 | 104.4 | 106.9 | 101.8 | 106.7 |
| | May | 105.9 | 101.6 | 107.0 | 102.6 | 109.6 | 111.2 | 104.6 | 112.9 | 108.6 | 105.5 | 108.2 | 103.3 | 107.2 |
| | June | 104.3 | 102.6 | 105.9 | 101.2 | 112.0 | 112.8 | 107.3 | 114.7 | 108.3 | 104.6 | 110.5 | 102.2 | 106.8 |
| | July | 104.2 | 102.6 | 105.3 | 104.3 | 109.1 | 112.3 | 107.8 | 112.8 | 107.2 | 104.5 | 109.9 | 101.3 | 107.4 |
| | August | 103.8 | 105.6 | 105.4 | 103.5 | 107.9 | 111.7 | 102.5 | 113.3 | 107.0 | 105.5 | 110.0 | 101.6 | 107.7 |
| | September | 103.8 | 103.8 | 106.2 | 104.0 | 108.1 | 111.0 | 103.5 | 113.9 | 108.1 | 106.1 | 110.5 | 102.8 | 108.1 |
| | October | 104.3 | 102.9 | 105.6 | 103.1 | 108.0 | 109.4 | 103.5 | 113.4 | 108.7 | 105.4 | 110.3 | 103.3 | 104.8 |
| | November | 104.1 | 101.8 | 106.1 | 101.5 | 108.7 | 109.8 | 103.7 | 113.5 | 108.8 | 104.6 | 110.2 | 103.7 | 104.9 |
| | December | 105.6 | 102.2 | 108.1 | 103.7 | 109.4 | 110.0 | 105.5 | 114.7 | 109.2 | 106.7 | 110.9 | 104.6 | 105.2 |
| | Average | 109.1 | 102.8 | 109.1 | 104.1 | 110.5 | 112.9 | 106.0 | 117.0 | 110.3 | 107. 9 | 112.1 | 105.8 | 108.7 |
| 1984 | January | 115.7 | 110.2 | 114.4 | 114.0 | 113.7 | 116.6 | 114.8 | 122.0 | 115.6 | 114.1 | 118.3 | 112.9 | 111.4 |
| | February | 121.7 | 112.6 | 119.7 | 117.8 | 117.5 | 118.9 | 118.4 | 128.6 | 121.9 | 119.5 | 124.3 | 117.4 | 117.5 |
| | March | 114.5 | 103.3 | 113.1 | 108.8 | 111.7 | 115.1 | 111.1 | 122.6 | 116.2 | 113.5 | 117.0 | 110.9 | 112.6 |
| | April | 113.4 | 103.3 | 112.4 | 107.7 | 110.7 | 113.3 | 109.9 | 119.9 | 115.6 | 110.6 | 116.0 | 107.8 | 110.8 |
| | May | 112.5 | 102.7 | 112.5 | 108.8 | 111.4 | 112.2 | 109.0 | 119.5 | 113.0 | 109.1 | 114.5 | 105.8 | 111.1 |
| | June | 110.6 | 103.7 | 110.5 | 104.5 | 110.8 | 112.8 | 107.2 | 116.3 | 109.9 | 107.1 | 115.0 | 103.3 | 108.7 |
| | July | 107.4 | 102.5 | 107.3 | 101.9 | 109.3 | 108.6 | 103.7 | 116.5 | 109.0 | 104.9 | 112.8 | 99.7 | 107.2 |
| | August | 104.7 | 98.0 | 105.5 | 98.6 | 106.0 | 108.0 | 103.7 | 109.8 | 105.2 | 103.6 | 110.2 | 99.6 | 105.2 |
| | September | 105.4 | 99.1 | 106.0 | 101.0 | 105.9 | 106.9 | 102.1 | 109.9 | 106.7 | 104.3 | 109.3 | 100.9 | 105.9 |
| | October | 106.2 | 101.9 | 106.9 | 102.2 | 107.4 | 108.0 | 103.5 | 111.8 | 107.5 | 105.7 | 111.9 | 101.5 | 106.7 |
| | November | 107.2 | 100.6 | 107.2 | 102.7 | 106.5 | 107.5 | 103.3 | 111.9 | 108.2 | 105.2 | 111.7 | 102.9 | 107.1 |
| | December | 106.4 | 97.9 | 107.0 | 103.1 | 107.1 | 106.4 | 102.8 | 112.9 | 107.1 | 104.9 | 111.3 | 103.2 | 107.7 |
| | Average | 112.1 | 103.9 | 111.6 | 108.4 | 111.4 | 111.9 | 109.6 | 118.7 | 113.5 | 111.0 | 115.5 | 107.9 | 110.5 |
| 1985 | January | 106.9 | 97.9 | 107.2 | 101.3 | 108.1 | 106.9 | 103.8 | 112.1 | 107.5 | 105.0 | 111.3 | 102.9 | 106.2 |
| | February | 107.2 | 98.5 | 107.1 | 102.7 | 106.9 | 107.3 | 104.0 | 117.1 | 108.6 | 105.7 | 112.0 | 103.2 | 106.8 |
| | March | 106.8 | 100.6 | 107.3 | 103.3 | 106.2 | 107.9 | 104.6 | 115.9 | 108.3 | 105.1 | 111.3 | 102.1 | 105.8 |
| | April | 107.0 | 101.5 | 106.6 | 102.2 | 106.9 | 106.4 | 105.1 | 113.9 | 109.7 | 105.2 | 110.7 | 100.9 | 103.8 |
| | May | 106.2 | 99.4 | 104.5 | 99.9 | 102.1 | 105.4 | 100.7 | 112.4 | 108.1 | 103.4 | 109.7 | 99.8 | 103.9 |
| | June | 103.5 | 95.4 | 101.1 | 94.4 | 98.6 | 103.7 | 96.4 | 107.1 | 104.4 | 99.6 | 108.1 | 95.0 | 104.4 |
| | July | 100.2 | 91.4 | 98.3 | 90.9 | 97.5 | 101.6 | 96.2 | 107.3 | 101.2 | 97.4 | 105.0 | 92.1 | 99.6 |
| | August | 99.5 | 91.0 | 96.1 | 91.7 | 95.9 | 101.5 | 97.5 | 105.5 | 98.9 | 97.3 | 105.0 | 92.5 | 99.2 |
| | September | 100.5 | 94.0 | 100.7 | 97.5 | 101.0 | 104.9 | 98.8 | 107.1 | 103.2 | 101.4 | 104.5 | 96.6 | 102.2 |
| | October | R106.4 | R99.4 | R104.7 | 102.3 | R104.4 | R106.9 | R102.7 | R109.9 | 106.3 | R103.4 | R107.0 | R98.6 | R105.8 |
| | November† | 111.4 | 103.6 | 110.5 | 108.5 | 111.7 | 111.2 | 107.1 | 114.1 | 111.8 | 108.5 | 114.3 | 105.7 | 107.0 |

¹The States are listed by geographic region of the country. State names are abbreviated as follows: CT - Connecticut, ME - Maine, MA - Massachusetts, NH - New Hampshire, RI - Rhode Island, VT - Vermont, DE - Delaware, DC - District of Columbia, MD - Maryland, NJ - New Jersey, NY - New York, PA - Pennsylvania, VA - Virginia, WV - West Virginia, IL - Illinois, IN - Indiana, MI - Michigan, MN - Minnesota, OH - Ohio, WI - Wisconsin, ID - Idaho, AK - Alaska, OR - Oregon, WA - Washington. Footnotes continued on following page.

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Sales Prices of No. 2 Distillate to Residences for Selected States¹ (continued)

| | | wv | IL | IN | мі | MN | он | wı | ID | AK | OR | WA | U.S. Average |
|----------------------|--|--|---|--|--|--|---|--|---|--|---|--|--|
| | | | | | | Cent | s per gall | lon, exclu | uding tax | | | | |
| 1978 1979 1980 | Average Average Average | 46.2 65.1 92.2 | 46.5 68.8 95.8 | 48.5 72.7 99.6 | 47.9 70.9 97.8 | 47.8 72.4 99.9 | 47.4 68.6 91.9 | 44.7 67.3 91.5 | 43.6 62.1 91.6 | 53.2 68.2 97.8 | 45.8 68.0 97.3 | 48.6 69.7 100.8 | 49.0 70.4 97.4 |
| 1981 1982 | Average Average | 115.0 109.3 | 114.9 110.9 | 118.5 114.3 | 118.3 113.9 | 118.4 115.1 | 113.2 110.2 | 109.1 107.8 | 110.4 110.4 | 118.0 117.4 | 111.4 111.6 | 116.5 117.6 | 119.4 116.0 |
| 1983 | January February March April May June July August September October November December Average | 105.6 104.7 99.2 97.5 96.1 97.3 94.9 96.1 100.6 100.5 101.5 101.0 | 103.8 99.5 96.6 97.7 100.3 100.2 99.6 100.7 102.5 101.0 100.8 99.6 100.4 | 105.7 102.8 95.7 96.8 98.2 98.2 99.4 98.9 101.4 101.5 100.7 101.1 100.7 | 110.6 108.5 103.7 102.5 102.7 110.7 105.3 102.2 103.9 105.8 105.4 106.8 106.4 | 107.8 96.5 100.5 101.9 102.4 102.6 104.4 103.7 104.8 104.4 104.2 103.1 | 107.9 104.4 98.2 95.8 96.5 96.1 97.3 95.2 101.2 101.2 101.2 101.0 102.1 101.3 | 108.5 96.8 97.1 98.7 99.0 99.2 100.7 101.8 100.4 100.5 101.2 | 109.1 104.8 99.6 99.2 98.7 99.3 98.1 98.9 99.5 99.5 100.3 101.8 | 114.6 NA 110.7 106.6 106.0 105.8 105.1 106.2 106.1 105.5 105.5 108.8 | 113.6 107.8 101.4 99.0 99.4 97.8 98.7 100.5 101.4 102.1 101.8 103.6 | 117.7 114.3 109.0 106.0 105.5 105.4 105.2 104.0 105.6 106.3 106.4 106.1 109.0 | 115.0 111.6 105.1 103.5 104.8 106.0 105.0 104.9 105.7 106.0 106.0 106.7 107.8 |
| 1984 | January February March April May June July August September October November December Average | 108.5 109.9 104.9 101.6 98.9 99.5 96.2 96.6 96.9 98.3 99.6 99.2 102.1 | 104.7 105.9 102.3 100.3 102.3 101.6 99.4 98.6 97.1 95.8 94.4 100.1 | 106.0 107.3 100.6 103.4 102.4 105.9 101.4 100.3 100.7 100.9 102.3 100.9 103.1 | 107.3 108.0 105.6 104.8 105.2 103.3 102.6 101.8 103.2 103.0 103.5 103.2 105.0 | 106.6 102.8 105.1 103.9 105.3 104.2 105.1 104.5 103.5 103.0 103.1 102.8 104.1 | 104.6 105.7 101.7 101.9 103.1 101.7 101.8 99.5 100.1 101.2 100.8 99.3 102.1 | 101.5 102.8 101.7 101.4 101.0 100.5 100.5 100.0 98.8 100.7 101.0 99.0 101.0 | 100.1 101.3 97.2 96.2 98.1 93.8 93.1 97.4 98.4 99.4 97.9 98.8 98.5 | 104.1 106.5 107.3 107.2 107.8 107.2 107.3 105.0 107.8 107.8 107.8 107.5 106.9 | 100.5 100.9 100.6 99.5 98.2 97.1 94.9 95.9 96.5 97.6 97.4 99.3 | 103.6 103.8 104.6 105.0 104.2 103.3 100.4 99.7 100.4 100.9 101.3 100.5 102.6 | 112.0 116.9 111.3 109.8 108.4 107.2 104.8 103.3 103.6 104.9 105.3 104.8 109.1 |
| 1985 | January February March April May June July August September October November† | 98.6 98.3 98.1 96.4 93.8 90.7 90.2 88.6 96.2 98.7 104.1 | 95.2 94.4 94.5 96.7 96.4 92.1 90.0 90.8 95.6 R100.1 103.3 | 98.6 97.8 96.3 98.6 101.5 97.5 93.2 93.1 95.4 R101.1 105.1 | 102.1 101.0 98.2 96.8 98.2 99.4 96.8 99.2 101.7 106.3 | 99.5 99.8 101.0 101.4 103.8 104.3 100.5 101.0 98.6 101.1 105.7 | 98.3 98.7 97.9 99.9 97.1 92.9 91.8 95.8 98.0 104.0 | 97.3 96.1 97.6 99.6 94.2 93.0 93.0 94.9 R99.1 101.6 | 96.8 96.9 96.6 96.1 96.8 95.9 94.9 94.5 94.3 R97.2 98.0 | 108.6 107.6 112.8 NA 106.8 107.4 108.1 107.1 109.2 R108.8 106.3 | 96.1 96.6 95.7 96.5 95.5 95.3 93.0 93.9 R94.1 99.1 | 100.6 99.8 100.3 99.2 98.1 97.5 97.1 97.6 R100.0 104.4 | 104.9 105.3 105.0 103.5 100.8 98.0 97.2 99.7 R103.0 108.6 |

Footnotes continued. †Preliminary data. R=Revised data. NA=Not available. Note: • Prices prior to January 1983 are Energy Information Administration estimates. See Note 8 in the Notes and Sources for this section for additional information. Sources: • See the Notes and Sources for this section.

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National Average Natural Gas Prices—Previous Series

| | | Weilhead Price | Imports by Major Interstate Pipeline Companies | Purchased from Producers by Major Interstate Pipeline Companies | Industrial Sales by Major Interstate Pipeline Companies ¹ | Purchased by Electric Plants ¹ ² | Residential Price ^{1 3} |
|------|---------------------|-------------------|--|--|---|---|-------------------------------------|
| | | | | Dollars per thousa | nd cubic feet | | |
| 1973 | Average | 0.22 | NA | NA | NA | 0.35 | . 1.29 |
| 1974 | Average | 0.30 | NA | NA | NA | 0.49 | 1.43 |
| 1975 | Average | 0.45 | NA | NA | NA | 0.77 | 1.71 |
| 1976 | Average | 0.58 | NA | NA | NA | 1.06 | 1.98 |
| 1977 | Average | 0.79 | NA | NA | NA | 1.33 | 2.35 |
| 1978 | Average | 0.91 | 2.21 | 0.83 | 1.54 | 1.48 | 2.56 |
| 1979 | Average | 1.18 | 2.60 | 1.22 | 2.01 | 1.80 | 2.98 |
| 1980 | - | 1.18 | 4.42 | 1.63 | 2.53 | 2.28 | 3.68 |
| | Average | | | | | | |
| 1981 | Average | 1.98 | 4.84 | 2.15 | 3.11 | 2.91 | 4.29 |
| 1982 | Average | 2.46 | 4.94 | 2.72 | 3.73 | 3.49 | 5.17 |
| 1983 | January | 2.66 | 5.03 | 3.06 | 4.38 | 23.57 | 5.86 |
| | February | 2.66 | 5.09 | 3.15 | 4.41 | 3.41 | 5.87 |
| | March | 2.58 | 5.01 | 3.01 | 4.24 | 3.45 | 6.00 |
| | April | 2.53 | 4.58 | 2.90 | 4.44 | 3.35 | 6.06 |
| | May | 2.53 | 4.40 | 2.98 | 4.24 | 3.55 | 6.22 |
| | June | 2.59 | 4.41 | 2.95 | 4.22 | 3.58 | 6.20 |
| | July | 2.52 | 4.31 | 2.96 | 4.28 | 3.72 | 6.21 |
| | August | 2.58 | 3.93 | 2.90 | 4.23 | 3.75 | 6.18 |
| | September | 2.67 | 4.02 | 2.87 | 4.08 | 3.70 | 6.19 |
| | October | 2.58 | 4.03 | 2.86 | 4.22 | 3.62 | 6.10 |
| | November | 2.60 | 4.26 | 2.84 | 4.26 | 3.54 3.49 | 6.04 6.06 |
| | December | 2.61 | 4.33 | 2.73 | 4.12 | | |
| | Average | 2.59 | 4.51 | 2.93 | 4.26 | 3.58 | 6.06 |
| 1984 | January | 2.67 | 4.40 | 2.80 | 4.25 | 3.55 | 5.98 |
| | February | 2.71 | 4.37 | 2.82 | 3.97 | 3.61 | 6.01 |
| | March | 2.67 | 4.40 | 2.80 | 4.18 | 3.52 | 5.98 |
| | April | 2.64 | 4.23 | 2.95 | 4.11 | 3.57 | 6.00 |
| | May | 2.67 | 4.15 | 2.86 | 4.17 | 3.75 | 6.19 |
| | June | 2.70 | 4.25 | 2.89 | 4.06 | 3.76 | 6.13 6.17 |
| | July | 2.68 | 4.15 4.12 | 2.95 | 4.04 4.07 | 3.89 3.80 | 6.20 |
| | August September | 2.69 2.62 | 4.12 | 2.95 2.84 | 4.10 | 3.80 | 6.26 |
| | October | 2.62 | 4.19 | 2.96 | 4.06 | 3.75 | 6.25 |
| | November | 2.61 | 3.43 | 3.13 | 4.26 | 3.72 | 6.12 |
| | December | 2.57 | 3.34 | 2.95 | 4.22 | 3.69 | 6.09 |
| | Average | 2.66 | 4.08 | 2.91 | 4.13 | 3.72 | 6.06 |
| 1985 | January | 2.69 | 3.21 | 2.89 | 4.19 | 3.77 | 6.19 |
| | February | 2.77 | 3.08 | 2.87 | 4.15 | 3.72 | 6.12 |
| | March | 2.67 | 3.29 | 2.90 | 4.00 | 3.79 | 6.16 |
| | April | 2.69 | 3.39 | 2.86 | 3.96 | 3.76 | 6.14 |
| | May | 2.59 | 3.32 | 2.89 | 3.84 | 3.60 | NA |
| | June | 2.63 | 3.40 | 3.00 | 3.86 | 3.60 | NA |
| | July | 2.56 | 3.41 | 2.82 | 3.83 | 3.59 | NA |
| | August | R2.53 | 3.28 | 2.69 | 3.75 | 3.49 | NA |
| | September | R2.51 | 3.28 | R2.76 | 3.80 | 3.42 | NA |
| | October | 2.49 | 3.16 | 2.68 | 3.99 | 3.44 | NA |

Previous Data Series. The residential and industrial price series shown on this page are being replaced by the series shown on the following page. Concurrent publication of both previous and current data series will continue until 3 months overlap of industrial data has occurred.

¹Includes supplemental gaseous fuels. ²Data through December 1982 cover all steam-electric utility plants with a capacity of 25 megawatts or greater. From 1974 through 1982, data include peaking units. Beginning with January 1983, data cover steam-electric utility plants with a capacity of 50 megawatts or greater. ³Monthly residential prices are Energy Information Administration calculations. See Note 6 in the Notes and Sources for this section for estimation procedures.

Prices shown on this page are intended to include all taxes. See Note 9 in the Notes and Sources for this section. R=Revised data. NA=Not available.

Notes: • Geographic coverage is the 50 States and the District of Columbia. • Data for 1973 through December 1984 are final. All other data are preliminary unless otherwise indicated.

Sources: • See the Notes and Sources for this section.

National Average Natural Gas Prices—Current Series

| | | | Major Interstate Pipeline Companies | | | Delivered to Consumers ¹ | | | | | | |
|------|---------------------|--------------|--|-----------------------------|---------------------|-------------------------------------|---------------------|-------------------|------------------------------------|-------------------|--|--|
| | | Wellhead | Imports | Purchases from Producers | City Gate | Residential | Commercial | Industrial | Electric Utilities ² | Average | | |
| | , | | | D | ollars per | thousand cubic | c feet ^a | | | | | |
| 1973 | Average | 0.22 | NA | NA | NA | 1.29 | 0.94 | 0.50 | 0.38 | 0.73 | | |
| 1974 | Average | 0.30 | NA | NA | NA | 1.43 | 1.07 | 0.67 | 0.51 | 0.89 | | |
| 1975 | Average | 0.45 | NA | NA | NA | 1.71 | 1.35 | 0.96 | 0.77 | 1.19 | | |
| 1976 | Average | 0.58 | NA | NA | NA | 1.98 | 1.64 | 1.24 | 1.06 | 1.47 | | |
| 1977 | Average | 0.79 | NA | NA | NA | 2.35 | 2.04 | 1.50 | 1.32 | 1.78 | | |
| 1978 | Average | 0.91 | 2.21 | 0.83 | NA | 2.56 | 2.23 | 1.70 | 1.48 | 1.98 | | |
| 1979 | Average ` | 1.18 | 2.60 | 1.22 | NA | 2.98 | 2.73 | 1.99 | 1.81 | 2.34 | | |
| 1980 | Average | 1.59 | 4.42 | 1.63 | NA | 3.68 | 3.39 | 2.56 | 2.27 | 2.91 | | |
| 1981 | Average | 1.98 | 4.84 | 2.15 | NA | 4.29 | 4.00 | 3.14 | 2.89 | 3.51 | | |
| 1982 | Average | 2.46 | 4.94 | 2.72 | NA | 5.17 | 4.82 | 3.87 | 3.48 | 4.32 | | |
| 1983 | January | 2.66 | 5.03 | 3.06 | NA | NA | NA | NA | 3.57 | NA | | |
| | February | 2.66 | 5.09 | 3.15 | NA | NA | NA | NA | 3.41 | NA | | |
| | March | 2.58 | 5.01 | 3.01 | NA | NA | NA | NA | 3.45 | NA | | |
| | April | 2.53 | 4.58 | 2.90 | NA | NA | NA | NA | 3.35 | NA | | |
| | May | 2.53 | 4.40 | 2.98 | NA | NA | NA | NA | 3.55 | NA | | |
| | June | 2.59 | 4.41 | 2.95 | NA | NA | NA | NA | 3.58 | NA | | |
| | July | 2.52 | 4.31 | 2.96 | NA | NA | NA | NA | 3.72 | NA | | |
| | August | 2.58 | 3.93 | 2.90 | NA | NA | NA | NA | 3.75 | NA | | |
| | September | 2.67 | 4.02 | 2.87 | NA | NA | NA | NA | 3.70 | NA | | |
| | October | 2.58 | 4.03 | 2.86 | 3.97 | 6.70 | 5.62 | NA | 3.62 | NA | | |
| | November | 2.60 | 4.26 | 2.84 | 3.91 | 6.30 | 5.67 | NA | 3.54 | NA | | |
| | December | 2.61 | 4.33 | 2.73 | 3.88 | 5.94 | 5.62 | NA | 3.49 | NA | | |
| | Average | 2.59 | 4.51 | 2.93 | NA | 6.06 | 5.59 | 4.18 | 3.58 | 4.82 | | |
| 1984 | January | 2.67 | 4.40 | 2.80 | 3.94 | R5.78 | R5.49 | NA | 3.55 | NA | | |
| | February | 2.71 | 4.37 | 2.82 | 4.02 | R5.84 | R5.54 | NA | 3.61 | NA | | |
| | March | 2.67 | 4.40 | 2.80 | 3.91 | · 5.92 | R5.57 | NA | 3.52 | NA | | |
| | April | 2.64 | 4.23 | 2.95 | 3.97 . | 5.96 | 5.52 | NA | 3.57 | NA | | |
| | May | 2.67 | 4.15 | 2.86 | 3.99 | 6.27 | 5.60 | NA | 3.75 | NA | | |
| | June | 2.70 | 4.25 | 2.89 | 4.04 | 6.76 | 5.67 | NA | 3.76 | NA | | |
| | July | 2.68 | 4.15 | 2.95 | 4.07 | 7.11 | 5.64 | NA | 3.89 | NA | | |
| | August | 2.69 | 4.12 | 2.95 | 43.69 | 7.23 | 5.51 | NA | 3.80 | NA | | |
| | September | 2.62 2.63 | 4.34 | 2.84 | 4.04 | 7.17 | 5.56 | NA | 3.83 | NA | | |
| | October November | 2.63 | 4.19 | 2.96 | 3.98 | 6.80 | 5.56 | NA | 3.75 | NA | | |
| | December | 2.61 | 3.43 3.34 | 3.13 2.95 | 3.92 | 6.30 | 5.54 | NA | 3.72 | NA | | |
| | Average | 2.57 | 3.34 4.08 | 2.95 2.91 | 3.98 3.96 | 6.05 6.12 | 5.59 5.55 | NA 4.22 | 3.69 3.72 | NA 4.86 | | |
| 1005 | - | | | | | | | | | | | |
| 1985 | January | 2.69 | 3.21 | 2.89 | 3.90 | 5.98 | 5.64 | NA | 3.77 | NA | | |
| | February | 2.77 | 3.08 | 2.87 | 3.94 | 5.87 | 5.55 | NA | 3.72 | NA | | |
| | March | 2.67 | 3.29 | 2.90 | 3.98 | 5.98 | 5.61 | NA | 3.79 | NA | | |
| | April May | 2.69 2.59 | 3.39 3.32 | 2.86 2.89 | 3.91 | 6.11 | 5.65 | NA | 3.76 | NA NA | | |
| | June | 2.59 | 3.32 | 3.00 | 3.91 | 6.58 6.96 | 5.58 5.62 | NA NA | 3.60 | NA NA | | |
| | July | 2.63 | 3.40 3.41 | 2.82 | 3.90 3.75 | 6.96 7.07 | 5.62 5.44 | NA NA | 3.60 3.59 | NA NA | | |
| | August | R2.53 | 3.28 | 2.69 | 3.75 | 7.21 | 5.44 | NA | 3.59 | NA | | |
| | September | R2.51 | 3.28 | R2.76 | 3.72 | 7.08 | 5.44 | NA | 3.49 | NA | | |
| | October | 2.49 | 3.16 | 2.68 | 3.60 | 6.51 | 5.32 | NA | 3.42 | NA | | |
| | November | NA | NA | NA | 3.48 | 6.15 | 5.33 | NA | NA | NA | | |

Current Data Series. The residential and industrial price series shown on this page are replacing the series shown on the preceding page. The city gate, commercial, and consumer average price series are new. See the last page of this section for a listing of the sources of all data series.

Includes supplemental gaseous fuels.

^aData through December 1982 cover all steam-electric utility plants with a capacity of 25 megawatts or greater. From 1974 through 1982, data include peaking units. Beginning with January 1983, data cover steam-electric utility plants with a capacity of 50 megawatts or greater. ^aPrices shown on this page are intended to include all taxes. See Note 9 in the Notes and Sources for this section. ^aThe decline from the previous month was primarily the result of refunds in the form of reduced charges. R=Revised data. NA=Not available.

Notes: • Geographic coverage is the 50 States and the District of Columbia. • Data for 1973 through December 1984 are final. All other data are preliminary unless otherwise indicated. Sources: . See the Notes and Sources for this section.

> Monthly Energy Review November 1985 **Energy Information Administration**

Electricity

| | | | t of Fossil team-Elect | | | Average Retail Electricity Prices ¹ for Selected Privately Owned Utilities ³ | | | | | | |
|--------|---------------------|------------------|---------------------------|-----------------------------|-------------------------|---|--------------|---------------------|--------------|---------------------------|--|--|
| | • | Coal | Heavy Oil⁴ | Natural Gas ^s | Ali Fossil Fuels⁴ | Residential | Commercial | Industrial | Other | Total ⁶ | | |
| | | | Cents per | million Btu | | | Cents pe | er kilowatthou | | | | |
| 1973 · | Average | 40.5 | 78.5 | 33.8 | 47.6 | 2.54 | 2.41 | 1.25 | 2.10 | 1.96 | | |
| · 1974 | Average | 70. 9 | 189.0 | 48.2 | 91.4 | 3.10 | 3.04 | 1.69 | 2.75 | 2.49 | | |
| 1975 | Average | 81.4 | 200.5 | 75.2 | 104.4 | 3.51 | 3.45 | 2.07 | 3.08 | 2.92 | | |
| 1976 | Average | 84.8 | 195.2 | 103.4 | 111.9 | 3.73 | 3.69 | 2.21 | 3.27 | 3.09 | | |
| 1977 | Average | 94.7 | 219.8 | 129.1 | 129.7 | 4.05 | 4.09 | 2.50 | 3.51 | 3.42 | | |
| 1978 | Average | 111.6 | 212.5 | 142.2 | 141.1 | 4.31 | 4.36 | 2.79 | 3.62 | 3.69 | | |
| 1979 | Average | 122.4 | 298.8 | 174.9 | 163.9 | 4.64 | 4.68 | 3.05 | 3.96 | 3.99 | | |
| 1980 | Average | 135.1 | 426.7 | 219.9 | 192.8 | 5.36 | 5.48 | 3.69 | 4.76 | 4.73 | | |
| 1981 | Average | 153.2 | 533.4 | 280.5 | 225.6 | 6.20 | 6.29 | 4.29 | 5.28 | 5.46 | | |
| 1982 | Average | 164.7 | 483.2 | 337.6 | 224.9 | 6.86 | 6.86 | 4.95 | 5.92 | 6.13 | | |
| 1983 | January | ²166.8 | ²448.9 | ²347.1 | ²216.7 | 6.65 | 6.78 | 5.03 | 5.91 | 6.13 | | |
| | February | 167.8 | 441.4 | 331.9 | 213.9 | 6.73 | 6.86 | 4.96 | 5.97 | 6.12 | | |
| • | March | 168.1 | 426.0 | 336.1 | 215.5 | 6.93 | 6.93 | 5.07 | 6.16 | 6.23 | | |
| | April | 168.5 | 431.6 | 326.1 | 215.8 | 6.91 | 6.86 | 4.92 | 6.15 | 6.12 | | |
| | May | 165.0 | 446.6 | 344.3 | 216.6 | 7.20 | 7.04 | 4.89 | 6.60 | 6.21 | | |
| | June | 167.3 | 453.6 | 347.2 | 220.9 | 7.41 | 7.13 | 4.96 | 6.62 | 6.35 | | |
| | July | 165.3 | 467.0 | 361.1 | 237.4 | 7.50 | 7.13 | 5.11 | 6.24 | 6.53 | | |
| | August | 164.3 | 470.4 | 363.2 | 230.1 | 7.52 | 7.06 | 5.01 | 6.37 | 6.51 | | |
| | September | 163.9 | 482.8 | 358.1 | 226.4 | 7.55 | 7.15 | 5.00 | 6.58 | 6.52 | | |
| | October | 164.6 | 479.6 | 350.1 | 219.8 | 7.50 | 7.19 | 5.01 | 6.66 | 6.41 | | |
| | November | ' 163.6 162.2 | 472.2 468.7 | 340.5 338.7 | 212.2 219.2 | 7.25 6.97 | 7.13 6.91 | 4.83 4.81 | 6.63 6.40 | 6.23 6.14 | | |
| | December Average | 162.2 | 466.7 457.8 | 338.7 347.4 | 219.2 220.6 | 7.18 | 7.01 | 4.01 4.97 | 6.36 | 6.14 6.29 | | |
| | - · | | | | | | | | | | | |
| 1984 | January | 161.6 | 488.9 | 343.7 | 221.0 | 6.77 | 6.81 | 4.86 | 6.33 | 6.14 | | |
| | February | 164.9 163.4 | 496.3 484.0 | 347.5 339.8 | 217.4 208.4 | 6.97 7.18 | 7.01 7.14 | 4.86 4.88 | 6.51 6.68 | 6.19 6.27 | | |
| | March April | 165.7 | 484.0 494.1 | 339.8 | 208.4 | 7.33 | 7.25 | 4.88 | 6.73 | 6.30 | | |
| | May | 168.6 | 486.9 | 360.4 | 220.3 | 7.59 | 7.30 | 4.92 | 6.85 | 6.40 | | |
| | June | 169.1 | 488.3 | 360.9 | 223.2 | 7.90 | 7.48 | 5.09 | 6.78 | 6.65 | | |
| | July | 168.2 | 474.6 | 373.1 | 231.3 | 8.00 | 7.51 | 5.21 | 6.97 | 6.83 | | |
| | August | 167.2 | 459.6 | 365.6 | 223.5 | 8.06 | 7.51 | 5.15 | 6.75 | 6.82 | | |
| | September | 167.4 | 472.5 | 368.0 | 217.5 | 8.06 | 7.64 | 5.25 | 7.05 | 6.88 | | |
| | October | 168.7 | 474.1 | 361.4 | 218.8 | 7.95 | 7.63 | 5.13 | 6.86 | 6.71 | | |
| | November | 166.6 | 470.6 | 357.2 | 216.8 | 7.62 | 7.43 | 5.06 | 6.99 | 6.54 | | |
| | December | 165.0 | 480.4 | 355.4 | 218.7 | 7.34 | 7.30 | 5.07 | 6.70 | 6.48 | | |
| | Average | 166.4 | 481.2 | 358.3 | 219.2 | 7.56 | 7.33 | 5.03 | 6.76 | 6.52 | | |
| 1985 | January | 164.0 | 472.7 | 364.2 | 218.8 | 7.28 | 7.25 | 5.12 | 6.80 | 6.52 | | |
| | February | 167.3 | 482.4 | 358.1 | 218.4 | 7.19 | 7.21 | 5.12 | 6.77 | 6.47 | | |
| | March | 167.5 | 458.9 | 365.1 | 210.2 | 7.48 | 7.36 | 5.13 | 7.01 | 6.55 | | |
| | April | 167.7 | 453.0 | 361.7 | 210.7 | 7.73 | 7.44 | 5.09 | 6.95 7.09 | 6.58 6.66 | | |
| | May | 166.8 165.1 | 405.2 384.8 | 346.2 345.0 | 206.2 208.1 | 7.98 8.15 | 7.55 7.60 | 5.08 5.24 | 7.09 7.07 | 6.86 | | |
| | June July | 164.2 | 384.8 391.9 | 345.0 344.2 | 208.1 | 8.24 | 7.64 | 5.24 5.36 | 7.13 | 7.02 | | |
| | August | 164.2 | 391.9 | 335.0 | 217.2 | 8.18 | 7.55 | 5.20 | 7.01 | 6.92 | | |
| | September | 163.0 | 419.0 | 328.7 | 204.7 | 8.18 | 7.62 | 5.24 | 7.08 | 6.95 | | |
| | October | 163.4 | 415.9 | 330.4 | 204.4 | 8.05 | 7.65 | 5.19 | 6.98 | 6.80 | | |
| | November† | NA | NA | NA | NA | 7.73 | 7.49 | 5.10 | 6.91 | 6.63 | | |
| | | | | | | | | | | | | |

¹Prices are calculated by dividing revenues by sales. Revenues may not correspond to sales for a particular month because of utility billing and accounting procedures. This could result in uncharacteristic increases or decreases in the monthly prices. ²Data through December 1982 cover all steam-electric utility plants with a capacity of 25 megawatts or greater. From 1974 through 1982, data include peaking units. Beginning with January 1983, data cover steam-electric utility plants with a capacity of 50 megawatts or

greater. ⁹Data through 1979 cover privately owned electric utilities in Classes A and B. Data for 1980 forward cover selected privately owned electric utilities in Class A whose electric operating revenues were \$100 million or more during the previous year. *See Note 7 in the Notes and Sources for this section.

Includes supplemental gaseous fuels.
 Average price for total sales to ultimate consumers.

Horizage price for Not available.
 Horizage setting test in a setting test in

Notes and Sources for the Price Section

Notes

1. The actual domestic average price represents the average price at which all domestic crude oil is purchased. Prior to February 1976, the domestic crude oil wellhead price represented an estimate of the average of posted prices; after February 1976, the wellhead price represents an average of first sale prices.

2. FOB literally means "Free on Board." It denotes a transaction whereby the seller makes the product available with an agreement on a given port at a given price; it is the responsibility of the buyer to arrange for the transportation and insurance.

3. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to March 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in March 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.

4. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on EIA Form 14, the "Refiners' Monthly Cost Report." These prices were previously published from data collected on ERA Form 49, the "Domestic Crude Oil Entitlements Program Refiners Monthly Report." The ERA Form 49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for EIA Form 14 in accordance with conventions used for ERA Form 49. Also, the respondents for the two forms are essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken in comparing the data collected on the two forms.

The refiner acquisition cost of crude oil is the average price paid by refiners for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners concerned. Domestic crude oil is that oil produced in the United States or from the outer continental shelf as defined in 43 USC Section 1331. Imported crude oil is either that oil reported on ERA Form 51, the "Transfer Pricing Report," or any crude oil that is not domestic oil. The composite cost is the weighted average of domestic and imported crude oil costs.

Crude oil costs and volumes reported on ERA Form 49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported on the FEA Form P110-M-1 included unfinished oils but excluded SPR. Imported averages derived from ERA Form 49 exclude oil purchased for SPR, whereas the composite averages derived from ERA Form 49 include SPR. None of the prices derived from EIA Form 14 include either unfinished oils or SPR.

5. Several different series of motor gasoline prices are published in this section. U.S. City Average Retail Prices for Motor Gasoline are calculated monthly by the Bureau of Labor Statistics during the development of the Consumer Price Index (CPI). These prices include all Federal, State, and local taxes paid at the time of sale. For the period 1974 through 1978, prices were collected in 56 urban areas. For the period 1978 forward, prices were collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-serve).

Refiner and Gas Plant Operator Sales Prices of Finished Motor Gasoline for Resale and to End Users are determined by the Energy Information Administration in a monthly survey of refiners and gas plant operators (Form EIA-782A). The prices do not include any Federal, State, or local taxes paid at the time of sale. Estimates of prices prior to January 1983 are based on FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices," and also exclude all Federal, State, or local taxes paid at the time of sale. Sales for Resale are those made to purchasers who are other-than-ultimate consumers. Sales to End Users are sales made directly to the consumer of the product, including bulk consumers such as agriculture, industry, and utilities, as well as residential and commercial consumers.

6. The monthly national average price of residential natural gas is based on data from the Bureau of Labor Statistics Consumer Price Index for All Urban Consumers (CPI-U) for natural gas (piped) and on data from Form EIA-176. Initial monthly estimates are obtained by multiplying the annual average price of residential natural gas collected on Form EIA-176 by the ratio of monthly values of the natural gas CPI-U for consecutive months. When a subsequent year's annual average price becomes available, the initial monthly estimates are adjusted to this annual average.

7. Heavy fuel oil prices include fuel oils No. 4, No. 5, and No. 6, and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (No. 2 fuel oil, kerosene, and jet fuel) prices.

8. Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. Every attempt was made to continue the most important price series. However, prices published through December 1982 and those published since January 1983 do not necessarily form continuous data series due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous annual data series have been generated for 1978–1980, and monthly series for 1981 and 1982, by estimating the prices that would have been published had the EIA-782 survey and system been in operation at that time. This form of estimation was performed after detailed adjustment for product and sales type matching, and for discontinuity due to other factors. An important difference between the previous and present prices is the distinction between wholesale and resale, and between retail and end user. The resale category continues to include sales among resellers. However, bulk sales to utility, industrial, and commercial accounts previously included in the wholesale category are now counted as made to end users. The end user category continues to include retail sales through company owned and operated outlets but also includes the bulk utility, industrial, and commercial sales. Additional information may be found in "Estimated Historic Time Series for the EIA-782," a feature article reprinted from the December 1983 [3] *Petroleum Marketing Monthly* published by the Energy Information Administration.

9. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all U.S., State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on consumers' bills are sometimes excluded by the reporting utilities.

(Notes and Sources for the Price Section are continued on the next page.)

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Notes and Sources for the Price Section (continued)

Sources

Petroleum and Petroleum Products: • Actual domestic Petroleum and Petroleum Products: • Actual domestic average wellhead prices—Economic Regulatory Administra-tion (ERA), January 1976: FEA Form 90, "Crude Petroleum Production Monthly Report"; February 1976 through Sep-tember 1979: FEA Form P124, "Domestic Crude Oil Pur-chaser's (Monthly) Report"; October 1979 through Decem-ber 1982: ERA Form 182, "Domestic Crude Oil First Pur-chase Report."; January 1983 forward: EIA Form 182, "Do-mestic Crude Oil First Purchase Report."

mestic Crude Oil First Purchase Report."
Crude oil imports costs—Energy Information Administration (EIA), 1975 through January 1979: FEA Form F701-M-O, "Transfer Pricing Report"; February 1979 through September 1982: ERA Form 51, "Transfer Pricing Report"; October 1982 through June 1984: EP Form 51, "Monthly Foreign Crude Oil Transaction Report"; July 1984 forward: Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report" Report.'

 Refiner acquisition costs—EIA, January 1976: FEO Form 96, "Monthly Cost Allocation Report"; February 1976 through June 1978: FEA Form P110-M-1, "Refiners' Monthiy Cost Allocation Report"; July 1978 through December 1980: ERA Form 49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report"; January 1981 forward: EIA Form 14, "Refiners' Monthly Cost Report."

U.S. City average retail motor gasoline prices—Bureau of Labor Statistics.

Labor Statistics. • No. 2 Distillate to Residences—January 1983 forward, EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petro-leum Product Sales Report" and EIA-782B, "Resel-lers/Retailers' Monthly Petroleum Product Sales Report." Prices prior to January 1983 are EIA estimates using data from FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Sup-ply/Price Monitoring Report" and EIA Form 9Å, "No. 2 Distillate Price Monitoring Report." See Note 8 on the previous page for additional information on the estimated data. data.

All other petroleum products—January 1983 forward, EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petro-leum Product Sales Report." Prices prior to January 1983 are EIA estimates using data from FEA Form 302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices." See Note 8 on the previous page for additional information on the estimated data.

information on the estimated data. **Natural Gas—Previous Series:** • Average wellhead price— Annual data through 1982 from EIA, *Natural Gas Annual*, *1973* through *1983*. Annual data for 1983 and 1984 from Form EIA-627, "Annual Quantity and Value of Natural Gas Report" and the U.S. Minerals Management Service. Monthly data are estimated primarily on the basis of values reported by State agencies in Mississippi, New Mexico,

Oklahoma, and Texas. These States together account for almost 50 percent of total U.S. marketed production. Monthly data are adjusted to conform with final reported annual data.

· Imports, Purchased from Producers, and Industrial Sales by Major Interstate Pipeline Companies-FERC Form 11. Interstate Pipeline Company Purchases, and Industrial Sales"

• Electric plant data—EIA, FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

 Residential Price—Annual data through 1983 from EIA, Natural Gas Annual, 1973 through 1983. Annual data for 1984 from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." Monthly data are EIA estimates based on the Bureau of Labor Statistics Urban Consumer Price Index (CPI-U) for natural gas and are adjusted to conform with final reported annual data. See

adjusted to conform with final reported annual data. See Note 6 on the previous page for estimation procedures. **Natural Gas—Current Series:** • Average wellhead— Annual data through 1982 from EIA, *Natural Gas Annual*, *1973* through *1983*. Annual data for 1983 and 1984 from Form EIA-627, "Annual Quantity and Value of Natural Gas Report" and the U.S. Minerals Management Service. Monthly data are estimated primarily on the basis of values reported by State agencies in Mississipi New Mavico reported by State agencies in Mississippi, New Mexico, Oklahoma, and Texas. These States together account for almost 50 percent of total U.S. marketed production. Monthly data are adjusted to conform with final reported annual data.

· Imports and Purchases from Producers by Major Interstate Pipeline Companies—FERC Form 11, "Interstate Pipeline Company Purchases, and Industrial Sales".

 Company Furthered, and industrial Gales .
 City Gate—EIA, October 1983 forward: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers.

Residential, Commercial, Industrial and Consumer Average—Annual data from EIA, Form EIA-176 "Annual Report of Natural and Supplemental Gas Supply and Dispo-sition." Monthly data from EIA, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Electric Utilities—EIA, FPC Form 423, "Monthly Report of

Cost and Quality of Fuels for Electric Plants." **Electricity:** • Cost of fossil fuels—EIA, FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants.

 Retail prices—EIA, January 1973 through February 1980:
 FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 through December 1982: FERC Form 5, "Electric Utility Company Monthly Statement"; January 1983 forward: EIA Form 826, "Electric Utility Company Monthly Statement."

International

Crude Oil Production

World crude oil production during November 1985 was 55.7 million barrels per day, up 0.5 million from the level in the previous month.

Organization of Petroleum Exporting Countries (OPEC) production during November 1985 averaged 17.9 million barrels per day, up 0.5 million from the level during the previous month. Production by the Arab members of OPEC during November 1985 averaged 10.5 million barrels per day, up 0.5 million from the October 1985 level. During November 1985, production increased in Saudi Arabia by 290,000 barrels per day, in Kuwait by 95,000 barrels per day, in Iraq by 50,000 barrels per day, and in Algeria by 30,000 barrels per day. Production decreased in the United Arab Emirates by 10,000 barrels per day, while production in Libya and Qatar remained the same as during the previous month. Among non-Arab OPEC countries during the month, production increased in Indonesia by 90,000 barrels per day, and in Nigeria by 80,000 barrels per day. Production in Iran decreased by 100,000 barrels per day, while production in Venezuela remained the same as during the previous month.

Of the non-OPEC nations during November 1985, production decreased in the United Kingdom and the United States by 20,000 and 11,000 barrels per day, respectively. The level of production increased in Mexico by 45,000 barrels per day, while production in Canada remained the same as during the previous month.

Petroleum Consumption

Preliminary petroleum consumption data for November 1985 were available for Italy, France, and the United States. Consumption in the United States decreased by 216,000 barrels per day compared with consumption 1 year earlier, while consumption in Italy and France increased by 84,000 and 41,000 barrels per day, respectively, compared to the November 1984 levels.

Petroleum Stocks

Preliminary data for November 1985 indicate that petroleum stock levels were lower compared with November 1984 levels in three of the four countries reporting. Petroleum stocks were down in Italy by 4.5 percent, in the United States by 2.2 percent, and in West Germany by 1.6 percent, compared with stocks held 1 year earlier. Stocks in Japan were 0.8 percent higher than the level 1 year earlier.

Petroleum stocks for all Organization for Economic Cooperation and Development members were 3,221 million barrels on June 30, 1985 (latest data available), a decrease of 103 million barrels (3.1 percent) compared with stocks held on June 30, 1984.

Nuclear Electricity Production

In November 1985, the 20 non-Communist nations with nuclear power capacity generated 110.2 gross terawatthours (billion kilowatthours) of nuclear-based electricity. This generation represents an increase of 19.3 percent compared with November 1984 generation. The United States accounted for 31.7 gross terawatthours (28.8 percent) of total nuclear generation in November 1985.

With the addition of River Bend-1 in the United States, there were 297 operable nuclear power generating units in non-Communist countries as of November 30, 1985, with a collective gross generating capacity of 225.8 gigawatts (million kilowatts). In November 1985, the 95 operable U.S. units accounted for 84.8 gross gigawatts (37.6 percent) of total non-Communist nuclear generating capacity.

International

Crude Oil Production for Major Petroleum Producing Countries

| | | Algeria | Iraq | Kuwait ¹ | Libya | Qatar | Saudi Arabia¹ | United Arab Emirates | Arab Members of OPEC ² | Indo- nesia | Iran |
|------|------------------|------------|----------------|---------------------|----------------|------------|------------------|----------------------------|---|----------------|-----------------|
| | | • | · | | • | sand barre | els per day | | | - | |
| 1973 | Average | 1,097 | 2,018 | 3,020 | 2,175 | 570 | 7,596 | 1,533 | 18,009 | 1,339 | 5,861 |
| 1974 | Average | 1,009 | 1,971 | 2,546 | 1,521 | 518 | 8,480 | 1,679 | 17,724 | 1,375 | 6,022 |
| 1975 | Average | 983 | 2,262 | 2,084 | 1,480 | 438 | 7,075 | 1,664 | 15,986 | 1,307 | 5,350 |
| 1976 | Average | 1,075 | 2,415 | 2,145 | 1,933 | 497 | 8,577 | 1,936 | 18,578 | 1,504 | 5,883 |
| 1977 | Average | 1,152 | 2,348 | 1,969 | 2,063 | 445 | 9,245 | 1,999 | 19,221 | 1,686 | 5,663 |
| 1978 | Average | 1,161 | 2,540 | 2,131 | 1,983 | 445 | 8,301 | 1,831 | 18,457 | • | • |
| 1979 | • | 1,154 | 3,477 | 2,131 | 2,092 | 508 | 9,532 | 1,831 | 21,094 | 1,635 | 5,242 |
| 1979 | Average | 1,154 | | | 1,787 | 472 | 9,532 9,900 | | • | 1,591 | 3,168 |
| 1981 | Average | , | 2,514 | 1,656 | , | | • | 1,709 | 19,050 | 1,577 | 1,662 |
| 1981 | Average | 805 | 1,000 | 1,125 | 1,140 | 405 | 9,815 | 1,474 | 15,764 | 1,605 | 1,380 |
| | Average | 710 | 1,012 | 823 | 1,150 | 330 | 6,483 | 1,250 | 11,758 | 1,339 | 2,214 |
| 1983 | January | 685 | 850 | 780 | 1,130 | 255 | 4,950 | 1,062 | 9,712 | 1,188 | 2,716 |
| | February | 585 | 850 | 895 | 925 | 200 | 3,510 | 1,062 | 8,027 | 984 | 2,414 |
| | March | 585 | 900 | 965 | 925 | 170 | 3,910 | 1,037 | 8,492 | 1,144 | 2,213 |
| | April | 685 585 | 950 | 880 | 1,030 1,130 | 260 275 | 3,930 | 1,147 | 8,882 | 1,358 | 2,012 |
| | May June | 685 | 1,000 1,000 | 1,030 920 | 1,130 | 300 | 4,725 4,620 | 1,177 1,182 | 9,922 9,837 | 1,358 1,358 | 2,313 2,514 |
| | July | 685 | 1,050 | 1,086 | 1,130 | 300 | 5,536 | 1,177 | 10,964 | 1,445 | 2,816 |
| | August | 685 | 1,100 | 1,181 | 1,130 | 265 | 5,931 | 1,187 | 11,479 | 1,445 | 2,514 |
| | September | 685 | 1,050 | 1,376 | 1,180 | 310 | 6,026 | 1,187 | 11,814 | 1,425 | 2,716 |
| | October | 685 | 1,100 | 1,305 | 1,180 | 320 | 6,005 | 1,167 | 11,762 | 1,474 | 2,414 |
| | November | 685 | 1,150 | 1,265 | 1,180 | 460 | 5,915 | 1,197 | 11,852 | 1,513 | 2,313 |
| ۰. | December | 685 | 1,050 | 1,075 | 1,180 | 420 | 5,825 | 1,197 | 11,432 | 1,396 | 2,313 |
| | Average | 660 | 1,005 | 1,064 | 1,105 | 295 | 5,086 | 1,149 | 10,364 | 1,343 | 2,440 |
| 1984 | January | 650 | 1,100 | 1,080 | 1,100 | 445 | 5,130 | 1,200 | 10,705 | 1,470 | 2,200 |
| | February | 600 | 1,000 | 1,240 | 1,100 | 315 | 5,040 | 1,200 | 10,495 | 1,575 | 2,300 |
| | March | 600 | 1,200 | 1,293 | 1,100 | 440 | 4,843 | 1,205 | 10,681 | 1,560 | 2,400 |
| | April | . 600 | 1,200 | 1,250 | 1,200 | 400 | 5,150 | 1,205 | 11,005 | 1,570 | 2,200 |
| | May June | 650 700 | 1,200 1,200 | 1,200 1,200 | 1,200 1,250 | 400 500 | 5,000 5,450 | 1,200 1,225 | 10,850 11,525 | 1,470 1,520 | 1,700 2,200 |
| | July | 650 | 1,200 | 1,200 | 1,100 | 430 | 5,450 | 1,090 | 10,590 | 1,320 | 2,200 |
| | August | 650 | 1,300 | 1,220 | 1,000 | 400 | 4,520 | 990 | 10,080 | 1,410 | 1,800 |
| | September | 650 | 1,300 | 1,183 | 1,000 | 480 | 4,133 | 1,110 | 9,856 | 1,400 | 1,900 |
| | October | 650 | 1,200 | 1,129 | 1,000 | 380 | 4,129 | 1,060 | 9,548 | 1,430 | 2,100 |
| | November | 650 | 1,300 | 990 | 1,000 | 280 | 3,990 | 1,060 | 9,270 | 1,350 | 2,400 |
| | December | 600 | 1,300 | 990 | 1,000 | 260 | 3,590 | 1,210 | 8,950 | 1,450. | 2,500 |
| | Average | 638 | 1,209 | 1,157 | 1,087 | 394 | 4,663 | 1,146 | 10,294 | 1,466 | 2,175 |
| 1985 | January | 600 | 1,300 | 1,110 | 1,000 | 270 | 3,510 | 1,100 | 8,890 | 1,310 | 1,900 |
| | February | 650 | 1,300 | 1,125 | 1,000 | 290 | 4,025 | 1,160 | 9,550 | 1,330 | 2,100 |
| | March | 690 | 1,250 | 1,085 | 1,000 | 315 | 3,835 | 1,215 | 9,390 | 1,300 | 2,200 |
| | April | 650 | 1,350 | 970 | 1,000 | 260 | 3,470 | 1,215 | 8,915 | 1,300 | 2,300 |
| | May | 650 | 1,300 | 940 | 1,100 | 290 | 2,590 2,420 | 1,160 | 8,030 | 1,200 | °2,000 2,200 |
| | June | 600 600 | 1,350 1,400 | 920 940 | 980 910 | 300 320 | 2,420 2,740 | 1,100 1,155 | 7,670 8,065 | 1,050 1,300 | 2,200 |
| | July⊶. August | 600 · | 1,400 | 940 940 | 910 | 320 | 2,740 2,340 | 1,155 | 7,760 | 1,300 | 2,200 |
| | September | 650 | 1,600 | 980 | 1,100 | 295 | 2,980 | 1,285 | 8,890 | 1,200 | 2,200 |
| | October | 650 | 1,650 | R1,055 | 1,200 | 300 | R3,910 | 1,255 | R10,020 | 1,260 | 2,300 |
| | November | 680 | 1,700 | 1,150 | 1,200 | 300 | 4,200 | 1,245 | 10,475 | 1,350 | 2,200 |
| | Average | 638 | 1,423 | 1,019 | 1,036 | 297 | 3,268 | 1,190 | 8,870 | 1,264 | 2,182 |

¹Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In November 1985, total production in this region amounted to approximately 400,000 barrels per day. ²Arab members of the Organization of Petroleum Exporting Countries (OPEC) include Algeria, Iraq, Kuwait, Libya; Qatar, Saudi Arabia, and the United Arab Emirates. ³OPEC total includes production in Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, United Arab Emirates, Indonesia, Iran, Nigeria, Venezuela, Ecuador, and Gabon. Footnotes continued on following page.

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Crude Oil Production for Major Petroleum Producing Countries (continued)

| | | Nigeria | Vene- zuela | Total OPEC ³ | Canada | Mexico | United Kingdom | United States | China | USSR | Other ⁴ | World |
|------|----------------------|--------------------|----------------|----------------------------|-----------------------------|----------------|-----------------------|------------------|----------------|-------------------------|------------------------|-------------------------|
| | | | | | | Thousand | l barrels pe | r day | | | | |
| 1973 | Average | 2,054 | 3,366 | 30,989 | 1,800 | 465 | 2 | 9,208 | 1,090 | 8,465 | 3,655 | 55,674 |
| 1974 | Average | 2,255 | 2,976 | 30,729 | 1,684 | 571 | 2 | 8,774 | 1,315 | 9,000 | 3,777 | 55,852 |
| 1975 | Average | 1,783 | 2,346 | 27,155 | 1,439 | 705 | 12 | 8,375 | 1,490 | 9,625 | 4,079 | 52,880 |
| 1976 | Average | 2,067 | 2,294 | 30,738 | 1,295 | 831 | 245 | 8,132 | 1,670 | 10,143 | 4,258 | 57,312 |
| 1977 | Average | 2,085 | 2,238 | 31,298 | 1,320 | 981 | 768 | 8,245 | 1.874 | 10,682 | 4,517 | 59,685 |
| 1978 | Average | 1,897 | 2,166 | 29,805 | 1,313 | 1,209 | 1,082 | 8,707 | 2,082 | 11,185 | 4.674 | 60,057 |
| 1979 | Average | 2,302 | 2,356 | 30,928 | 1,496 | 1,461 | 1,568 | 8,552 | 2,122 | 11,460 | 4,948 | 62,535 |
| 1980 | Average | 2,055 | 2,168 | 26,891 | 1,435 | 1,936 | 1,622 | 8,597 | 2,114 | 11,773 | 5,170 | 59,538 |
| 1981 | Average | 1,433 | 2,102 | 22,646 | 1,285 | 2,313 | 1,811 | 8,572 | 2,012 | 11,907 | 5,355 | 55,901 |
| 1982 | Average | 1,295 | 1,895 | 18,868 | 1,271 | 2,748 | 2,065 | 8,649 | 2,045 | 11,967 | 5,639 | 53,252 |
| 1983 | January | 880 | 2,098 | 16,985 | 1,205 | 2,983 | 2,135 | 8,697 | 2,085 | 12,400 | 6,003 | 52,493 |
| 1300 | February | 675 | 1,791 | 14,277 | 1,203 | 2,303 | 2,315 | 8,758 | 2,000 | 12,400 | 6,104 | 49,595 |
| | March | 905 | 2,093 | 15,218 | 1,366 | 2,418 | 2,265 | 8,700 | 2,110 | 12,400 | 6.039 | 50,516 |
| | April | 1,150 | 1,726 | 15,524 | 1,234 | 2.673 | 2,170 | 8,776 | 2,120 | 11,990 | 6,200 | 50,687 |
| | May | 1,625 | 1,695 | 17,284 | 1,293 | 2,798 | 2,235 | 8,631 | 2,120 | 11,895 | 6,180 | 52,436 |
| | June | 1,535 | 1,700 | 17,345 | 1,475 | 2,778 | 2,045 | 8,667 | 2,120 | 11,895 | 6,280 | 52,605 |
| | July | 1,710 | 1,705 | 19,051 | 1,450 | 2,688 | 2,280 | 8,636 | 2,120 | 11,895 | 6,273 | 54,393 |
| • | August | 1,300 | 1,741 | 18,895 | 1,392 | 2,778 | 2,290 | 8,679 | 2,130 | 11,895 | 6,177 | 54,236 |
| | September | 1,220 | 1,736 | 19,297 | 1,406 | 2,738 | 2,385 | 8,784 | 2,130 | 11,895 | 6,243 | 54,878 |
| | October | 1,290 | 1,750 | 19,091 | 1,362 | 2,663 | 2,355 | 8,771 | 2,130 | 11,895 | 6,357 | 54,624 |
| | November December | 1,245 1,310 | 1,781 1,786 | 19,090 18,638 | 1,387 1,372 | 2,733 2,693 | 2,490 | 8,770 8,397 | 2,130 2,130 | 11,895 | 6,489 | 54,984 |
| | Average | 1,241 | 1,801 | 17,583 | 1,356 | 2,093 2,689 | 2,530 2,291 | 8,688 | 2,130 | 11,895 12,027 | ·6,524 6,239 | 54,179 52,993 |
| | - | • | • | • | • | • | | • | • | | - | |
| 1984 | January February | 1,365 1,565 | 1,840 1,815 | 17,980 18,140 | 1,365 1,445 ⁻ | 2,670 2.755 | 2,525 2,600 | 8,868 8,874 | 2,200 2,200 | 11,950 11,950 | 6,643 6,629 | 54,201 |
| | March | 1,560 | 1,815 | 18,416 | 1,445 | 2,733 | 2,000 | 8,672 | 2,200 | 11,800 | 6,563 | 54,593 54,316 |
| | April | 1,300 | 1,815 | 18,300 | 1,430 | 2,770 | 2,400 | 8,862 | 2,225 | 11,800 | 6,649 | 54,510 |
| | May | 1,300 | 1,840 | 17,570 | 1,415 | 2,800 | 2,439 | 8,955 | 2.225 | 11,950 | 6.724 | 54,078 |
| | June | 1,400 | 1,805 | 18,870 | 1,470 | 2,820 | 2,350 | 8,852 | 2,225 | 11,950 | 6,834 | 55,371 |
| | July | 1,200 | 1,860 | 17,860 | 1,515 | 2,845 | 2,470 | 8,885 | 2,305 | 11,920 | 6,838 | 54,638 |
| | August | 1,150 | 1,820 | 16,670 | 1,435 | 2,680 | 2,300 | 8,809 | 2,305 | 11,920 | 6,846 | 52,965 |
| | September | 1,400 | 1,850 | 16,826 | 1,330 | 2,705 | 2,435 | 8,993 | 2,335 | 11,840 | 6,957 | 53,421 |
| | October | 1,600 | 1,800 | 16,893 | 1,450 | 2,675 | 2,615 | 8,906 | 2,335 | 11,840 | 7,118 | 53,832 |
| | November | 1,600 | 1,725 | 16,760 | 1,460 | 2,745 | 2,605 | 8,979 | 2,335 | 11,800 | 7,170 | 53,854. |
| | December | 1,600 | 1,770 | 16,685 | 1,445 | 2,830 | 2,645 | 8,897 | 2,335 | 11,800 | 7,211 | 53,848 |
| | Average | 1,419 | 1,813 | 17,576 | 1,436 | 2,750 | 2,495 | 8,879 | 2,269 | 11,878 | 6,847 | 54,130 |
| 1985 | January | 1,400 | 1,670 | 15,580 | 1,450 | 2,635 | 2,780 | 8,929 | 2,390 | 11,700 | 7,214 | 52,678 |
| | February | 1,690 | 1,680 | 16,770 | 1,450 | 2,685 | 2,650 | 8,928 | 2,390 | 11,700 | 7,253 | 53,826 |
| | March | · 1,700 · 1,600 | 1,670 1,670 | 16,690 16,215 | 1,500 1,465 | 2,810 2.825 | 2,600 | 8,927 8,842 | 2,390 | 11,700 | 7,327 | 53,944 |
| | April May | 1,450 | 1,670 | 14,780 | 1,405 | 2,825 | 2,635 2,545 | 8,969 | 2,390 2,400 | 11,700 11,750 | 7,404 7,373 | 53,476 52,082 |
| | June | 1,100 | 1,670 | 14,780 | 1,475 | 2,555 | 2,545 | 8,965 | 2,400 | 11,750 | 7,373 | 52,082 |
| | July | 1.000 | 1,670 | 14,665 | 1,430 | 2,620 | 2,385 | 8,904 | 2,450 | 11,800 | 7,465 | 51,719 |
| | August | 1,200 | 1,670 | 14,760 | 1,450 | 2,795 | 2,215 | 8,895 | 2,450 | 11,850 | 7,456 | 51,871 |
| | September | 1,500 | 1,670 | 15,900 | 1,450 | 2,815 | 2,600 | 8,874 | | R11,925 | 7,476 | R53,515 |
| | October | 1,680 | 1,670 | R17,370 | 1,450 | R2,750 | R2,670 | 8,943 | | R11,960 | 7,536 | R55,154 |
| | November | 1,760 | 1,670 | 17,905 | 1,450 | 2,795 | 2,650 | 8,932 | 2,475 | 11,960 | 7,528 | 55,695 |
| | Average | 1,459 | 1,671 | 15,874 | 1,456 | 2,734 | 2,561 | 8,919 | 2,426 | 11,800 | 7,382 | 53,154 |

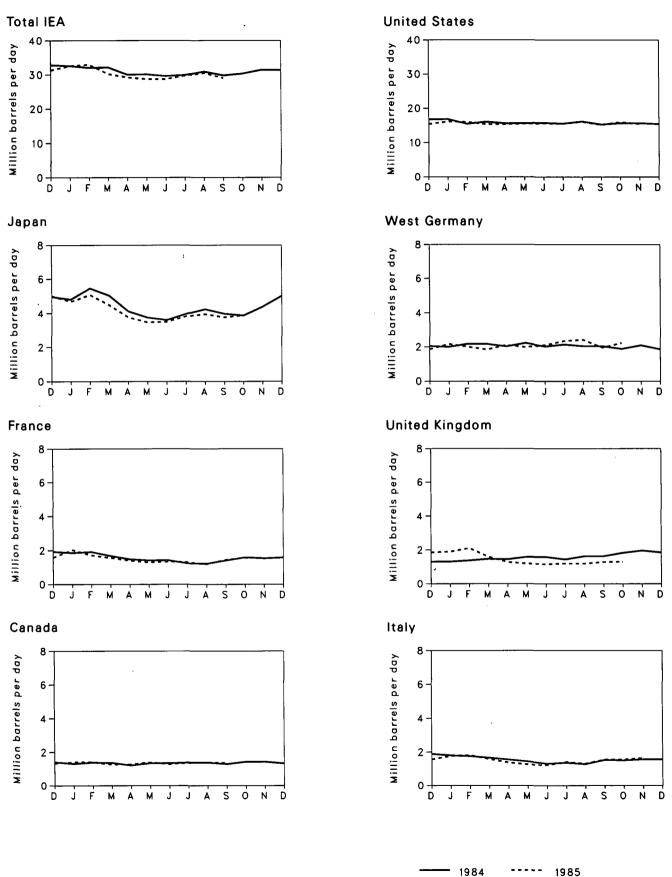
Footnotes continued.

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Other is a calculated total derived from the difference between world production and the nations represented above. R=Revised data. .

Notes: • U.S. geographic coverage is the 50 States and the District of Columbia.
• Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.
Sources: • See the last page of this section.

Petroleum Consumption for Major Non-Communist Industrialized Countries



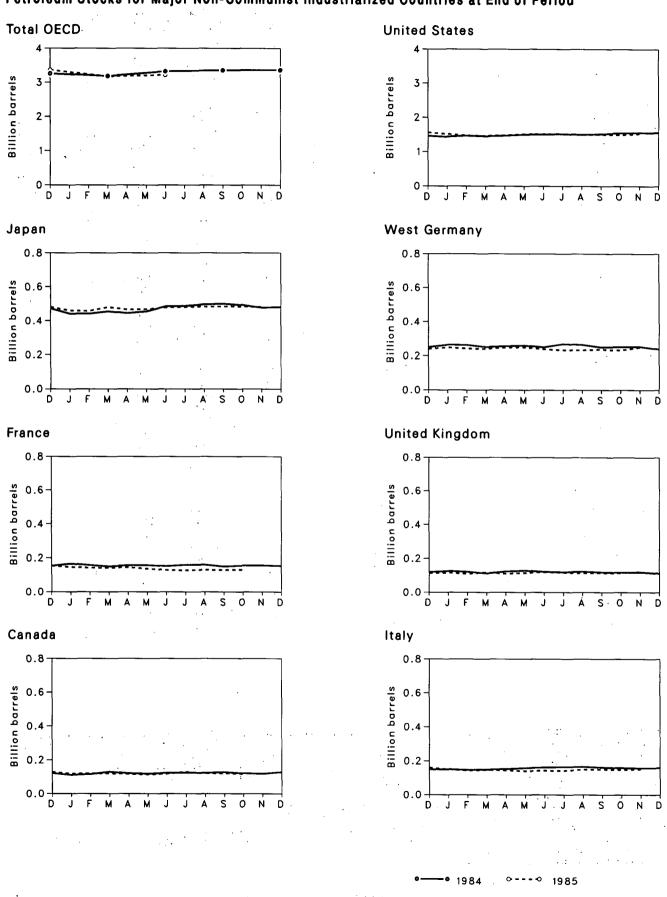
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Petroleum Consumption for Major Non-Communist Industrialized Countries¹

| | | Canada | France ² | italy ³ | Japan⁴ | United Kingdom | United States | West Germany | Other IEA ^s | Total IEAª |
|------|----------------------|----------------|---------------------|--------------------|----------------|-------------------|------------------|-----------------|---------------------------|------------------|
| | | | | | Thou | sand barrels p | ber day | | | |
| 1973 | Average | 1,597 | 2,219 | 1,525 | 5,000 | 1,958 | 17,308 | 2,693 | 4,069 | 34,150 |
| 1974 | Average | 1,630 | 2,094 | 1,521 | 4,872 | 1,829 | 16,653 | 2,408 | 4,047 | 32,960 |
| 1975 | Average | 1,595 | 1,925 | 1,468 | 4,568 | 1,633 | 16,322 | 2,319 | 3,905 | 31,810 |
| 1976 | Average | 1,647 | 2,075 | 1,503 | 4,786 | 1,601 | 17,461 | 2,507 | 4,265 | 33,770 |
| 1977 | Average | 1,661 | 1,973 | 1,476 | 5,015 | 1,655 | 18,431 | 2,478 | 4,214 | 34,930 |
| 1978 | Average | 1,701 | 2,077 | 1,551 | 5,115 | 1,683 | 18,847 | 2,596 | 4,387 | 35,880 |
| 1979 | Average | 1,766 | 2,107 | 1,607 | 5,173 | 1,690 | 18,513 | 2,664 | 4,487 | 35,900 |
| 1980 | Average | 1,730 | 1,965 | 1,602 | 4,680 | 1,420 | 17,056 | 2,360 | 4,152 | 33,000 |
| 1981 | Average | 1,615 | 1,745 | 1,705 | 4,445 | 1,325 | 16,058 | 2,120 | 4,032 | 31,300 |
| 1982 | Average | 1,450 | 1,645 | 1,614 | 4,196 | 1,337 | 15,296 | 2,045 | 3,962 | 29,900 |
| | - | | - | | | | | - | • | - |
| 1983 | January | 1,260 | 1,685 | 1,675 | 4,410 | 1,260 | 14,722 | 1,875 | 3,998 | 29,200 |
| | February | 1,430 | 1,985 | 1,865 | 4,950 | 1,415 | 14,792 | 2,060 | 4,288 | 30,800 |
| | March | 1,305 | 1,685 | 1,605 | 4,625 | 1,430 | 15,541 | 2,180 | 4,314 | 31,000 |
| | April May | 1,190 1,320 | 1,785 1,500 | 1,415 1,470 | 3,850 3,460 | 1,300 1,230 | 14,692 14,505 | 1,940 2,010 | 3,913 3,805 | 28,300 27,800 |
| | June | 1,360 | 1,405 | 1,475 | 4,040 | 1,255 | 15,289 | 2,010 | 4,121 | 29,600 |
| | July | 1,265 | 1,210 | 1,365 | 3,745 | 1,160 | 15,019 | 1,785 | 3.861 | 28,200 |
| | August | 1,440 | 1,350 | 1,315 | 3,990 | 1,220 | 15,480 | 1,920 | 4,035 | 29,400 |
| | September | 1,380 | 1,415 | 1,590 | 4,040 | 1,300 | 15,506 | 2,040 | 4,144 | 30,000 |
| | October | 1,360 | 1,495 | 1,625 | 3,900 | 1,280 | 14,962 | 2,090 | 4,083 | 29,300 |
| | November | 1,460 | 1,800 | 1,840 | 4,290 | 1,340 | 15,500 | 2,055 | 4,215 | 30,700 |
| | December | 1,400 | 1,930 | 1,880 | 4,960 | 1,300 | 16,726 | 2,050 | 4,484 | 32,800 |
| | Average | 1,345 | 1,600 | 1,590 | 4,185 | 1,290 | 15,231 | 2,005 | 4,054 | 29,700 |
| 1984 | January | 1,300 | 1,860 | 1,800 | 4,800 | 1,310 | 16,801 | 2,000 | 4,489 | 32,500 |
| | February | 1,370 | 1,915 | 1,750 | 5,450 | 1,380 | 15,437 | 2,180 | 4,433 | 32,000 |
| | March | 1,350 | 1,680 | 1,660 | 5,020 | 1,470 | 16,050 | 2,170 | 4,380 | 32,100 |
| | April | 1,200 | 1,475 | 1,550 | 4,110 | 1,450 | 15,568 | 2,030 | 4,092 | 30,000 |
| | May June | 1,329 1,330 | 1,410 1,420 | 1,435 1,295 | 3,740 3,590 | 1,590 1,585 | 15,620 15,709 | 2,230 2,020 | 4,156 4,071 | 30,100 29,600 |
| | July | 1,370 | 1,225 | 1,350 | 3,950 | 1,385 | 15,498 | 2,020 | 4,071 | 29,900 |
| | August | 1,365 | 1,210 | 1,270 | 4,230 | 1,630 | 16,116 | 2,050 | 4,239 | 30,900 |
| | September | 1,280 | 1,400 | 1,525 | 3,960 | 1,635 | 15,247 | 2,040 | 4,113 | 29,800 |
| | October | 1,415 | 1,590 | 1,500 | 3,860 | 1,830 | 15,616 | 1,880 | 4,199 | 30,300 |
| | November | 1,420 | 1,530 | 1,560 | 4,375 | 1,965 | 15,627 | 2,095 | 4,358 | 31,400 |
| | December | 1,320 | 1,580 | 1,560 | 4,995 | 1,855 | 15,375 | 1,855 | 4,340 | 31,300 |
| | Average | 1,338 | 1,523 | 1,520 | 4,338 | 1,595 | 15,726 | 2,057 | 4,226 | 30,800 |
| 1985 | January | 1,390 | 2,025 | 1,765 | 4,670 | 1,905 | 16,142 | 2,165 | 4,463 | 32,500 |
| | February | 1,390 | 1,710 | 1,810 | 5,060 | 2,110 | 15,975 | 2,005 | 4,550 | 32,900 |
| | March | 1,245 | 1,560 | 1,575 | 4,480 | 1,600 | 15,321 | 1,840 | 4,139 | 30,200 |
| | April | 1,270 | 1,390 | 1,370 | 3,755 | 1,280 | 15,345 | 2,110 | 4,070 | 29,200 |
| | May | 1,380 | 1,290 | 1,255 | 3,450 | 1,190 | 15,460 | 1,985 | 3,980 | 28,700 |
| | June | 1,270 | 1,340 | 1,205 | 3,485 | 1,150 | 15,551 | 2,105 | 3,934 | 28,700 |
| | July | 1,350 1,380 | 1,300 1,180 | 1,400 1,300 | 3,815 3,935 | 1,190 1,190 | 15,517 16,039 | 2,345 2,415 | 4,083 4,241 | 29,700 30,500 |
| | August September | 1,340 | 1,180 | 1,300 | 3,935 | 1,285 | 15,115 | 2,415 | 4,241 4,000 | 29,000 |
| | October | 1,340 NA | R1,564 | R1.554 | 3,860 | 1,205 | 15,923 | 2,230 | 4,000 NA | 29,000 NA |
| | November | NA | 1,571 | 1,644 | 3,000 NA | NA | 15,411 | 2,230 NA | NA | NA |
| | Average ⁷ | 1,335 | 1,487 | 1,491 | 4,020 | 1,415 | 15,618 | 2,117 | 4,160 | 30,138 |
| | | | | | | | | | | |

¹These data represent inland consumption, i.e., sales of petroleum products excluding refinery fuel, refinery losses, and ocean bunkers except for the United States, where it represents domestic products supplied.
¹Not a member of the International Energy Agency (IEA).
¹Principal products only prior to 1981.
⁴Excludes liquefied petroleum gases and condensate.
⁸Other is a calculated total derived from the difference between total IEA consumption and the IEA nations represented above.
⁹The 21 signatory nations of the IEA are listed in Note 1 on the last page of this section.
⁷Average of available data.
R = Revised data. NA = Not available.
Notes: • U.S. geographic coverage is the 50 States and the District of Columbia.
• Data for 1983 through 1985 are preliminary.
Sources: • See the last page of this section.

Petroleum Stocks for Major Non-Communist Industrialized Countries at End of Period



Monthly Energy Review November 1985 Energy Information Administration

Petroleum Stocks for Major Non-Communist Industrialized Countries at End of Period¹

| | * · · · · | | | | | | · · · | · · | | |
|------|----------------------|------------|------------|------------|------------|-------------------|------------------|-----------------|----------------------------|----------------------------|
| | | Canada | France | Italy | Japan | United Kingdom | United States | West Germany | Other OECD ² | Total OECD ³ |
| | | | | | | Million barrels | 5 | | | |
| 1973 | Year | 149 | 203 | NA | 303 | 156 | 1,008 | NA | NA | NA |
| 1974 | Year | 164 | 249 | 169 | 370 | 161 | 1,074 | 215 | NA | NA |
| 1975 | Year | 167 | 225 | 143 | 375 | 164 | 1,133 | 190 | NA | NA |
| 1976 | Year | 153 | 234 | 142 | 394 | 165 | 1,112 | 214 | NA | NA |
| 1977 | Year | 167 | 239 | 161 | 409 | 148 | 1,312 | 225 | 524 | 3,185 |
| 1978 | Year | 144 | 201 | 154 | 413 | 157 | 1,278 | 238 | 512 | 3,097 |
| 1979 | Year | 150 | 226 | 163 | 460 | 169 | 1,341 | 272 | 594 | 3,375 |
| 1980 | Year | 164 | 243 | 170 | 400 | 168 | 1,392 | 319 | 636 | 3,587 |
| | | | | | | | | | | |
| 1981 | Year | 161 | 214 | 167 | 482 | 143 | 1,484 | 297 | 583 | 3,531 |
| 1982 | Year | 136 | 193 | 179 | 468 | 125 | 1,430 | 272 | 557 | 3,360 |
| 1983 | January | 136 | 206 | 170 | 473 | 125 | 1,452 | 274 | NA | NA |
| | February | 133 | 187 | 163 | 450 | 121 | 1,430 | 274 | NA | NA |
| | March | 135 123 | 162 158 | 155 151 | 456 422 | 120 120 | 1,372 1,374 | 262 255 | 539 NA | 3,201 |
| | April May | 125 | 158 | 151 | 422 437 | 120 | 1,374 | 255 | NA | NA NA |
| | June | 113 | 158 | 152 | 437 | 116 | 1,405 | 261 | 531 | 3,203 |
| | July | 110 | 174 | 151 | 436 | 119 | 1,426 | 270 | NA | NA |
| | August | 110 | 183 | 161 | 433 | 121 | 1,460 | 274 | NA | NA |
| | September | 125 | 165 | 160 | 452 | 125 | 1,485 | 263 | 549 | 3,324 |
| | October | 111 | 170 | 157 | 441 | 129 | 1,508 | 267 | NA | NA |
| | November | 105 | 162 | 150 | 440 | 124 | 1,510 | 267 | NA | NA |
| | December | 120 | 153 | 149 | 471 | 119 | 1,454 | 250 | 542 | 3,258 |
| 1984 | January | 109 | 165 | 149 | 441 | 125 | 1,429 | 264 | NA | NA |
| | February | 114 | 157 | 146 | 441 | 121 | 1,463 | 263 | NA | NA |
| | March | 128 | 149 | 148 | 454 | 112 | 1,444 | 251 | 500 | 3,186 |
| | April | 120 | 156 | 151 | 444 | 123 | 1,462 | 256 | NA | NA |
| | May | 117 | 157 | 157 | 454 | 128 | 1,496 | 260 | NA | NA |
| | June | 122 | 151 | 161 | 484 | 122 | 1,503 | 250 | 521 | 3,324 |
| | July | 123 | 159 | 163 | 486 | 120 | 1,513 | 269 | NA | NA |
| | August | 122 | 160 | 165 | 495 | 123 | 1,498 | 265 | NA | NA |
| | September October | 126 120 | 149 155 | 161 158 | 498 491 | 119 118 | 1,513 | 250 252 | 539 NA | 3,355 |
| | November | 120 | 155 | 156 | 491 476 | 120 | 1,544 1,556 | 252 254 | NA | NA NA |
| | December | 127 | 153 | 159 | 470 | 113 | 1,556 | 234 | 537 | 3,364 |
| 1985 | January | 117 | 145 | 149 | 459 | 115 | 1,510 | 248 | NA | NA |
| | February | 118 | 141 | 142 | 456 | 110 | 1,467 | 242 | NA | NA |
| | March | 118 | 140 | 145 | 479 | 117 | 1,459 | 240 | 475 | 3,173 |
| | April | 115 | 144 | 143 | 465 | 110 | 1,474 | 248 | NA | NA |
| | May | 112 | 135 | 139 | 467 | 115 | 1,508 | 249 | NA | NA |
| | June | 117 | 128 | 142 | 477 | 120 | 1,510 | 239 | 488 | 3,221 |
| | July | R127 | R126 | 141 | R480 | R117 | 1,515 | R234 | NA | NA |
| | August | 120 | 129 | R149 | R482 | R114 | 1,493 | R233 | NA | NA |
| | September | 119 | 128 | R149 | R483 | 115 | 1,500 | R238 | NA | NA |
| | October | 117 | 130 | R147 | R483 | 115 | 1,492 | R233 | NA | NA |
| | November | NA | NA | 150 | 480 | NA | 1,522 | 250 | NA | NA |

¹Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and petroleum products. Petroleum stocks include all nonmilitary petroleum held for storage, regardless of ownership, within each country in bulk terminals, refinery tanks, pipeline tankage, intercoastal tankers, tankers in port, and inland ship bunkers. Data exclude oil held in pipelines (except for the United States), rail and truck cars, sea-going ships' bunkers, service stations, retail stores, and tankers at sea. ²¹'Other OECD'' includes Organization for Economic Cooperation and Development (OECD) members not shown. ³¹The members of OECD are listed in Note 2 on the last page of this section. R = Revised data. NA = Not available. Notes: • U.S. geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding. • In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported. Using the new basis, the end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,420 in 1980, and 1,462 in 1982. Sources: • See the last page of this section.

Sources: . See the last page of this section.

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Nuclear Electricity Generation by Non-Communist Countries¹

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| | | Argen- tina | Belgium | Brazil | Canada | Finland | France | India | Italy | Japan | Nether- lands | Paki- stan |
|------|----------------------|----------------|------------|------------|------------|-------------|--------------|------------|------------|--------------|------------------|---------------|
| | | | | | | Billion gro | oss kilowa | tthours | | | | |
| 1973 | Total | 0 | 0 | 0 | R15.3 | 0 | R14.7 | R2.5 | 3.1 | 9.4 | 1.1 | 0.5 |
| 1974 | Total | 1.0 | 0.1 | Ō | 15.4 | Ō | 14.7 | R1.9 | 3.4 | R18.9 | 3.3 | 0.6 |
| 1975 | Total | 2.5 | 6.8 | Ō | 13.2 | Ō | 18.3 | 2.5 | 3.8 | R21.3 | 3.3 | 0.5 |
| 1976 | Total | 2.6 | 10.0 | Ō | 18.0 | Ō | 15.8 | 3.2 | 3.8 | R36.6 | 3.9 | 0.5 |
| 1977 | Total | 1.6 | 11.9 | Ō | R26.6 | 2.7 | 17.9 | 2.8 | 3.4 | R28.2 | 3.7 | 0.3 |
| 1978 | Total | 2.9 | 12.5 | ō | R33.0 | 3.3 | R30.6 | 2.3 | R4.5 | R53.1 | 4.1 | 0.2 |
| 1979 | Total | 2.7 | 11.4 | ŏ | 38.4 | 6.7 | 39.9 | 3.2 | 2.6 | 62.0 | 3.5 | (s) |
| 1980 | Total | 2.3 | 12.5 | õ | 40.4 | 7.0 | 61.2 | 2.9 | 2.2 | 82.8 | 4.2 | 0.1 |
| 1981 | Total | 2.8 | 12.8 | ŏ | 43.3 | 14.5 | 105.2 | 3.1 | 2.2 | 86.0 | 4.2 3.7 | 0.1 |
| 1982 | Total | 1.9 | 15.6 | 0.1 | 42.6 | 16.5 | 103.2 | 2.2 | 6.8 | 104.5 | 3.9 | 0.2 |
| | | | | | | | | | | • | | 0.1 |
| 1983 | January | 0.2 | 1.9 | 0 | 4.3 | 1.7 | 13.8 | 0.2 | 0.2 | 8.0 | 0.4 | (s) |
| | February | 0.2 | 1.4 | 0 | 4.5 | 1.5 | 10.9 | 0.1 | 0.1 | 6.8 | (s) | 0 |
| | March | 0.2 | 0.7 | (s) | 4.6 | 1.6 | 11.3 | 0.2 | 0.1 | 7.9 | (s) | (s) |
| | April | 0.2 | 1.6 | (s) | 4.3 | 1.5 | 10.5 | 0.2 | 0.1 | 8.4 | 0.2 | (s) |
| | May June | 0.2 0.3 | 2.5 2.5 | 0 0 | 3.9 4.4 | 1.2 1.0 | 9.6 9.3 | 0.3 0.3 | 0.7 0.7 | 9.2 9.1 | 0.3 0.4 | (s) |
| | July | 0.3 | 2.5 | 0 | 4.4 | 1.3 | 9.3 11.0 | 0.3 | 0.7 | 9.1 9.6 | 0.4 0.4 | (s) 0 |
| | August | 0.3 | 2.4 | ŏ | 3.8 | 1.6 | 12.1 | 0.2 | 0.7 | 10.5 | 0.4 | (s) |
| | September | 0.5 | 2.2 | ŏ | 4.4 | 1.5 | 12.4 | 0.3 | 0.6 | 10.0 | 0.4 | (s) |
| | October | 0.3 | 2.2 | Ō | 4.7 | 1.4 | 13.0 | 0.3 | 0.6 | 10.3 | 0.4 | (s) |
| | November | 0.4 | 2.0 | (s) | 4.3 | 1.5 | 13.4 | 0.2 | 0.7 | 9.1 | 0.4 | (s) |
| | December | 0.4 | 2.1 | 0.1 | 5.0 | 1.7 | 16.8 | 0.3 | 0.7 | 10.1 | 0.4 | (s) |
| | Total | 3.4 | 24.1 | 0.2 | 53.0 | 17.4 | 144.2 | 2.9 | 5.8 | 109.1 | 3.6 | 0.2 |
| 1984 | January | 0.7 | 2.7 | (s) | 5.0 | 1.7 | 18.0 | 0.3 | 0.4 | 10.1 | 0.3 | (s) |
| | February | 0.4 | 2.3 | 0.2 | 4.6 | 1.6 | 17.1 | 0.4 | 0.6 | 9.2 | 0.4 | ò |
| | March | 0.6 | 1.9 | 0.1 | 5.1 | 1.7 | 17.8 | 0.3 | 0.7 | 8.8 | 0.2 | 0 |
| | April | 0.5 | 2.4 | (s) | 4.3 | 1.6 | R15.4 | R0.3 | 0.3 | 8.8 | 0.2 | (s) |
| | May | 0.5 | 2.0 | 0.1 | 3.6 | 1.2 | 14.2 | 0.5 | 0.3 | 10.5 | 0.4 | (s) |
| | June | 0.4 | 2.6 | 0.0 | 3.7 | 1.3 | 13.1 | 0.4 | 0.3 | 9.9 | 0.4 | (s) |
| | July | 0.4 | 2.4 | 0.0 | 4.4 | 1.4 | 13.1 | 0.5 | 0.3 | 10.6 | 0.2 | (s) |
| | August September | 0.3 0.4 | 1.9 1.9 | (s) 0.3 | 4.7 3.9 | 1.4 1.5 | 13.2 14.7 | 0.4 0.2 | 0.8 0.8 | 11.0 11.4 | 0.3 0.4 | (s) |
| | October | 0.4 | 2.5 | 0.5 | 3.9 4.5 | 1.5 | 14.7 | 0.2 | 0.8 | 11.4 | 0.4 | (s) (s) |
| | November | R(s) | 2.6 | 0.4 | 4.7 | 1.7 | 17.8 | 0.3 | 0.8 | 11.9 | 0.4 | (s) |
| | December | 0.1 | 2.6 | 0.4 | 5.1 | 1.7 | 20.9 | 0.2 | 0.8 | 12.8 | 0.4 | (s) |
| | Total | 4.5 | 27.7 | 2.0 | R53.8 | 18.5 | 191.2 | 4.1 | 6.9 | R127.1 | R3.8 | 0.3 |
| 1985 | January | 0.2 | 2.5 | 0.4 | 5.7 | 1.7 | 21.9 | 0.2 | 0.8 | 12.2 | 0.4 | (s) |
| | February | 0.4 | 1.7 | 0.3 | 5.0 | 1.6 | 19.2 | 0.2 | 0.7 | 10.7 | 0.3 | (s) |
| | March | 0.5 | 2.0 | 0.3 | 5.9 | 1.8 | 20.6 | 0.4 | 0.8 | 12.0 | 0.2 | Ó |
| | April | 0.4 | 2.2 | 0.1 | 5.2 | 1.6 | 17.7 | 0.6 | 0.7 | 11.7 | (S) | 0 |
| | May | 0.4 | 2.8 | 0.2 | 2.4 | 1.2 | 15.9 | 0.5 | 0.7 | 12.9 | 0.2 | 0 |
| | June | 0.4 | R2.8 | 0.4 | 4.2 | 1.2 | 13.6 | 0.4 | 0.6 | 12.4 | 0.4 | (s) |
| | July · | 0.5 | R2.5 | 0.3 | 5.7 | 1.4 | 16.1 | 0.4 | 0.6 | 12.3 | 0.4 | 0.1 |
| | August September | 0.5 | R3.2 | 0.1 | 6.0 | 1.5 B1.6 | 15.4 | 0.2 | 0.5 | 12.7 | 0.4 | (s) |
| | September October | 0.5 | 3.3 3.9 | 0.3 0.4 | 5.4 5.1 | R1.6 1.7 | 17.2 20.0 | 0.3 0.4 | 0.3 0.3 | 12.4 13.4 | 0.4 0.4 | 0 |
| | November | 0.4 | 3.9 | 0.4 | 5.1 | 1.7 | 20.0 | 0.4 | 0.3 | 13.4 | 0.4 | (s) 0.1 |
| | Year to Date | 4.4 | 30.7 | 3.1 | 56.3 | 17.0 | 199.7 | 4.0 | 6.4 | 135.1 | 3.5 | 0.1 |
| | Buto | T • • | | | | | 10011 | 7.0 | 3.4 | 100.1 | 0.0 | U.L |

A review of the data published in this section revealed discrepancies between the aggregate gross generation shown for certain nations and the sum of individual reactor generation data for those nations. Appropriate corrections, based upon the individual reactor data, are reflected in this issue and, henceforth, individual reactor data will be used to calculate all aggregate gross generation values presented in this section.

¹Figures are for gross electricity generation, as opposed to net electricity generation. Net figures are generally less than gross figures by about 5 percent, which represents the energy consumed by the generating plants themselves. ^aThe United Kingdom assesses generation at 4-, 5- or 6-week intervals, rather than by calendar month. R=Revised data. (s)=Less than 0.05 billion gross kilowatthours. Footnotes continued on following page.

Nuclear Electricity Generation by Non-Communist Countries¹ (continued)

| | | South Africa | South Korea | Spain | Sweden | Switzer- land | Taiwan | United Kingdom ² | West | Non- Communist World Excluding U.S. | | Total Non- Communist World |
|--------------|---------------------|-----------------|----------------|------------|--------------|------------------|--------------|--------------------------------|---------------|---|-----------------|----------------------------------|
| | | | | | | Billion g | oss kilow | atthours | | | | |
| 1973 1974 | Total Total | 0 0 | 0 0 | 6.5 7.2 | 2.1 R2.3 | 6.2 7.0 | 0 | R28.2 R33.8 | 11.9 12.0 | R101.4 R121.7 | R87.8 R124.3 | R189.3 R246.0 |
| 1975 | Total Total | 0 | 0 | 7.5 | 12.0 | 7.7 | 0 | 30.5 | 21.7 | R151.8 | R182.3 | R334.1 |
| 1976 1977 | Total Total | 0 0 | 0 0.1 | 7.6 6.5 | 16.0 19.9 | 7.9 8.1 | 0 0.1 | 36.8 38.1 | 24.5 R36.0 | R187.1 207.8 | 201.8 R264.2 | R388.9 R472.0 |
| 1978 | Total | Ō | 2.3 | 7.6 | 23.8 | 8.3 | 2.7 | R36.6 | R35.7 | R263.5 | R292.4 | R555.9 |
| 1979 | Total | 0 | 3.2 | 6.7 | 21.0 | 11.8 | 6.3 | 38.5 | 42.2 | 300.1 | 270.6 | 570.7 |
| 1980 1981 | Total Total | 0 | 3.5 | 5.2 | 26.7 | 14.3 | 8.2 | 37.2 | 43.7 | R354.3 | 265.4 | 619.8 |
| 1981 | Total Total | 0 | 2.9 3.8 | 9.4 8.8 | 37.7 38.8 | 15.2 15.0 | 10.7 13.1 | 38.9 44.1 | 53.4 63.4 | 442.4 489.9 | 288.5 298.6 | 730.9 788.5 |
| 1983 | January | 0 | 0.5 | 1.0 | 4.2 | 1.5 | 1.5 | 4.3 | 6.5 | 50.0 | 27.4 | 77.4 |
| | February | 0 | 0.4 | 0.9 | 3.7 | 1.4 | 0.8 | 4.3 | 5.6 | 42.7 | 23.8 | 66.6 |
| | March | 0 | 0.6 | 0.9 | 4.1 | 1.5 | 1.8 | 4.9 | 6.0 | 46.7 | R25.1 | 71.7 |
| | April May | 0 0 | 0.4 0.2 | 0.8 0.4 | 3.3 2.4 | 1.5 1.2 | 1.7 2.0 | 4.3 3.4 | 4.0 2.9 | 43.1 40.6 | 23.4 23.9 | 66.5 64.5 |
| | June | ŏ | 0.7 | 0.6 | 2.4 | 0.5 | 2.0 | 3.9 | 4.2 | R42.1 | 25.7 | 67.8 |
| | July | 0 | 0.7 | 0.6 | 1.6 | 1.2 | 1.6 | 3.4 | 5.1 | 44.9 | 27.3 | 72.2 |
| | August September | 0 0 | 1.1 1.1 | 1.0 1.0 | 2.7 3.0 | 1.0 1.4 | 1.4 1.2 | 3.7 4.4 | 4.6 6.0 | R47.5 R50.4 | 27.9 R26.3 | 75.4 76.7 |
| | October | ŏ | 0.8 | 1.1 | 3.6 | 1.4 | 1.2 | 3.7 | 7.6 | R53.2 | 27.6 | 80.8 |
| | November | 0 | 1.2 | 1.1 | 4.5 | 1.4 | 1.6 | 3.9 | 7.1 | R52.7 | 26.6 | 79.3 |
| | December | 0 | 1.3 | 1.4 | 5.0 | 1.5 | 1.7 | 5.5 | 6.2 | R60.0 | 28.6 | 88.6 |
| | Total | 0 | 9.0 | 10.7 | 40.4 | 15.5 | 18.9 | R49.6 | 65.8 | 573.9 | 313.6 | 887.5 |
| 1984 | January February | 0 | 1.3 1.2 | 1.5 1.5 | 5.3 5.0 | 1.5 1.4 | 1.7 1.8 | 4.4 4.6 | 6.9 R6.8 | 61.8 R59.1 | 30.8 29.4 | 92.6 R88.5 |
| | March | ő | 1.0 | 1.5 | 5.0 | 1.4 | 2.0 | 4.8 | 7.1 | 60.6 | 29.4 | 89.2 |
| | April | 0.1 | 0.9 | 1.3 | 4.5 | 1.5 | 1.8 | 4.2 | R7.7 | R55.8 | 24.7 | R80.5 |
| | May | 0.1 | 0.8 | 1.9 | 3.3 | 1.3 | 1.4 | 4.3 | 7.2 | 53.6 | 27.3 | 80.9 |
| | June July | 0.3 0.5 | 0.7 0.7 | 2.2 2.5 | 2.8 2.4 | · 0.6 1.3 | 1.8 R2.7 | 4.7 3.7 | 7.1 6.2 | 52.3 53.2 | 26.4 29.4 | 78.8 82.6 |
| | August | 0.7 | 0.9 | 2.3 | 3.5 | 1.0 | 2.4 | 3.6 | 6.3 | 54.7 | 31.8 | 86.5 |
| | September | 0.7 | 0.9 | 2.6 | 4.2 | 1.4 | 2.6 | 4.9 | R8.1 | R60.8 | 30.3 | R91.1 |
| | October November | 0.7 0.5 | 1.3 1.3 | 1.8 1.9 | 5.0 4.5 | 1.5 1.5 | 2.0 1.8 | 4.1 4.4 | R8.5 R9.9 | R63.5 66.3 | 26.8 26.2 | R90.3 R92.5 |
| | December | 0.6 | 0.9 | 2.2 | 5.4 | 1.9 | 2.3 | 6.3 | R10.8 | R75.9 | 32.0 | R107.9 |
| | Total | 4.2 | 11.8 | R23.1 | 51.3 | 16.3 | R24.3 | 54.1 | R92.6 | R717.6 | 343.8 | R1,061.4 |
| 1985 | January | 0.3 | 1.1 | 2.2 | 5.4 | 2.2 | 2.4 | 5.7 | 10.8 | 76.1 | 38.0 | 114.1 |
| | February | 0 | 1.2 | 1.9 | 5.0 | 2.0 | 2.1 | 5.6 | 10.1 | 68.2 | 32.4 | 100.5 |
| | March April | 0 0 | 1.5 1.3 | 2.8 2.4 | 5.6 4.5 | 2.2 2.2 | 2.5 2.7 | 6.6 5.1 | 11.7 10.6 | 77.4 68.9 | 32.5 28.3 | 109.9 97.2 |
| | May | ŏ | 1.5 | 2.3 | 3.9 | 1.9 | 2.7 | 4.7 | 9.3 | 63.7 | 31.8 | 95.5 |
| | June | 0.1 | 1.2 | 3.1 | 2.6 | 1.2 | 2.6 | 5.1 | 9.6 | R61.8 | 31.0 | R92.8 |
| | July August | 0.8 0.8 | 1.1 | 2.2 | 3.1 | 1.3 | 2.2 | 4.1 | 8.4 | R63.5 | 36.4 | R100.0 |
| | September | 1.0 | 1.2 1.3 | 2.1 2.1 | 4.3 4.7 | 1.0 1.7 | 2.2 2.6 | 3.8 4.9 | 9.5 10.3 | R65.4 R70.3 | 36.8 35.9 | R102.1 R106.2 |
| | October | 1.1 | 1.4 | 2.1 | 5.4 | 2.2 | 2.6 | 4.3 | 11.3 | 76.5 | 32.1 | R108.6 |
| | November | 0.8 | 1.7 | 2.1 | 7.0 | 2.2 | 1.7 | 3.7 | 11.7 | 78.5 | 31.7 | 110.2 |
| | Year to Date | 4.9 | 14.5 | 25.3 | 51.7 | 20.2 | 26.2 | 53.6 | 113.4 | 770.2 | 366.9 | 1,137.1 |

A review of the data published in this section revealed discrepancies between the aggregate gross generation shown for certain nations and the sum of individual reactor generation data for those nations. Appropriate corrections, based upon the individual reactor data, are reflected in this issue and, henceforth, individual reactor data will be used to calculate all aggregate gross generation values presented in this section.

Footnotes continued.

Notes: • U.S. geographic coverage is the 50 States and the District of Columbia. • The sum of the months may not equal the annual total because the annual total may reflect revisions which are not included in the monthly data. Also, the sum of the months may not equal the annual total due to independent rounding. Sources: • See the last page of this section.

Notes and Sources for the International Section

Notes

1. The 21 signatory nations of the International Energy Agency (IEA) are Australia, Austria, Belgium, Canada, Den-mark, West Germany, Greece, Ireland, Italy, Japan, Luxembourg, the Netherlands, New Zealand, Norway, Portu-gal, Spain, Sweden, Switzerland, Turkey, the United King-dom, and the United States. Australia and Portugal joined the IEA as new members in 1979 and 1980, respectively. In an effort to maintain comparability within this time series, consumption data for these two countries have been incorconsumption data for these two countries have been incor-porated into the IEA total for all years.

2. The members of the Organization for Economic Coopera-tion and Development (OECD) are Australia, Austria, Bel-gium, Canada, Denmark, Finland, France, West Germany, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, the Ne-therlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and the United States. Total OECD includes the U.S. Territories.

Sources

Crude Oil Production: • 1973-1984 annual data (except the United States): Energy Information Administration (EIA), 1984 International Energy Annual.
1973–1985 U.S. annual and monthly data: EIA, Petroleum

Supply Monthly.

Supply monthly.
1983–1985 monthly data (except U.S. and World): Central Intelligence Agency, "International Energy Statistical Re-view," and other industry sources.
1983–1985 monthly data for World: Sum of data for all countries using using the power set.

Countries using above sources. Petroleum Consumption: • Central Intelligence Agency, "International Energy Statistical Review" (except the United States).

• U.S. data: EIA, Petroleum Supply Monthly.

· International Energy Agency totals for latest months are **EIA** estimates

Petroleum Stocks: • U.S. data: EIA, Petroleum Supply Monthly.

· Other OECD data: OECD, Quarterly Oil Statistics; Comite Professionnel du Petrole, Bulletin Mensuel.

· Total OECD data: Sum of data for all OECD member countries using above sources. Nuclear Electricity Gene

Generation and Capacities: Nucleonics Week.

Conversion Factors

Units of Measure

Weight

| 1 metric ton | contains | 1,000 kilograms or 2,204.62 pounds |
|--------------|----------|------------------------------------|
| 1 long ton | contains | 2,240 pounds |
| 1 short ton | contains | 2,000 pounds |

Conversion Factors for Crude Oil (Average Gravity)

| 1 barrel | contains | 42 gallons |
|--------------|----------|--------------------------------------|
| 1 barrel | contains | 0.136 metric tons (0.150 short tons) |
| 1 metric ton | contains | 7.33 barrels |
| 1 short ton | contains | 6.65 barrels |

Conversion Factors for Uranium

| 1 short ton (U ₃ O ₈) | contains | 0.769 metric tons of uranium |
|--|----------|------------------------------|
| 1 short ton (UF ₆) | contains | 0.613 metric tons of uranium |
| 1 metric ton (UF ₆) | contains | 0.676 metric tons of uranium |

Price Indices

| | Gross National Product Implicit Price Deflator (1982=100) | Consumer Price Index, All Urban Consumers, All Items (1972=100) |
|-------|---|---|
| 1972 | 46.5 | 100.0 |
| 1973 | 49.5 | 106.2 |
| 1974 | 54.0 | 117.9 . |
| 1975 | 59.3 | 128.7 |
| 1976 | 63.1 | 136.1 |
| 1977 | 67.3 | 144.9 |
| 1978 | 72.2 | 155.9 |
| 1979 | 78.6 | 173.5 |
| 1980 | 85.7 | 197.0 |
| 1981 | 94.0 | 217.4 |
| 1982 | 100.0 | 230.7 |
| 1983 | 103.9 | 238.1 |
| 1984 | 108.1 | 248.3 |
| 1985‡ | 111.7 | 248.3 |
| | | |

‡=Preliminary data.
 Sources: • Gross National Product Implicit Price Deflator—U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business.* • Consumer Price Index, All Urban Consumers, All Items—1967=100.0 from U.S. Department of Labor, Bureau of Labor Statistics. Rebased to 1972=100.0 by Energy Information Administration.

Approximate Heat Content of Petroleum Products

| | Million Btu per Barrel |
|-------------------------------------|---------------------------|
| Asphalt | |
| Aviation gasoline | |
| Butane | |
| Butane-propane mixture ¹ | |
| Distillate fuel oil | |
| Ethane | |
| Ethane-propane mixture ² | 3.308 |
| Isobutane | 3.974 |
| Jet fuel-kerosene type | 5.670 |
| Jet fuel-naphtha type | 5.355 |
| Kerosene | 5.670 |
| Lubricants | 6.065 |
| Motor gasoline | 5.253 |
| Natural gasoline | |
| Pentanes Plus | ., 4.620 |
| Petrochemical feedstocks | |
| Naphtha 400° F or less | 5.248 |
| Other oils over 400° F | 5.825 |
| Still gas | 6.000 |
| Petroleum coke | |
| Plant condensate | 5.418 |
| Propane | |
| Residual fuel oil | 6.287 |
| Road oil | |
| Special naphtha | |
| Still gas | |
| Unfinished oils | 5.825 |
| Unfractionated stream | |
| Wax | |
| Miscellaneous | 5.796 |

¹ 60 percent butane and 40 percent propane. ² 70 percent ethane and 30 percent propane.

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Conversion Factors (continued)

Approximate Heat Content of Fuels, 1973–1979

| | 11-11- | 1070 | | | | | | |
|---|--|------------------|---------------------|------------------|------------------|------------------|------------------|------------------|
| | Units | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 |
| Coal | Million DAVIDE and Asia | | ~~~~~ | ~~~~ | | | ~~~~ | |
| Production | Million Btu/short ton | 23.376 | 23.072 | 22.897 | 22.855 | 22.597 | 22.248 | 22.454 |
| Consumption | Million Btu/short ton | 23.057 | 22.677 | 22.506 | 22.498 | 22.265 | 22.017 | 22.100 |
| Non-electric utility users | Million Btu/short ton | 24.878 | 24.783 | 24.745 | 24.861 21.679 | 24.701 | 24.496 | 24.626 |
| Electric utilities | Million Btu/short ton Million Btu/short ton | 22.246 25.000 | 21.781 25.000 | 21.642 | 21.679 | 21.508 | 21.275 | 21.364 |
| Exports | Million Btu/short ton | 25.000 | 25.000 | 25.000 26.562 | 25.000 | 25.000 26.548 | 25.000 26.478 | 25.000 26.548 |
| | Million Blu/ short ton | 20.390 | 20.700 | 20.502 | 20.001 | 20.340 | 20.470 | 20.040 |
| Anthracite | | | | | | | | |
| Production | Million Btu/short ton | 22.132 | 21.711 | 21.582 | 22.045 | 22.661 | 23.079 | 23.170 |
| Consumption | Million Btu/short ton | 21.464 | 20.919 | 20.762 | 21.254 | 22.066 | 22.398 | 22.069 |
| Non-electric utility users | Million Btu/short ton | 22.674 | 22.330 | 22.272 | 22.618 | 24.101 | 24.388 | 24.272 |
| Electric utilities | Million Btu/short ton | 17.920 | 17.200 | 17.064 | 17.526 | 17.244 | 17.104 | 17.454 |
| Imports and exports | Million Btu/short ton | 25.400 | 25.400 | 25.400 | 25.400 | 25.400 | 25.400 | 25.400 |
| Bituminous coal and lignite | | | | | | | | |
| Production | Million Btu/short ton | 23.391 | [·] 23.087 | 22.910 | 22.863 | 22.597 | 22.242 | 22.449 |
| Consumption | Million Btu/short ton | 23.073 | 22.694 | 22.522 | 22.509 | 22.266 | 22.014 | 22.100 |
| Residential and commercial | Million Btu/short ton | 22.887 | 22.523 | 22.258 | 22.819 | 22.594 | 22.078 | 21.884 |
| Coke plants | Million Btu/short ton | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 |
| Other industrial & transportation | Million Btu/short ton | 22.585 | 22.420 | 22.439 | 22.528 | 22.290 | 22.175 | 22.436 |
| Electric utilities | Million Btu/short ton | 22.262 | 21.799 | 21.659 | 21.692 | 21.521 | 21.284 | 21.372 |
| Imports | Million Btu/short ton | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 |
| Exports | Million Btu/short ton | 26.612 | 26.716 | 26.573 | 26.613 | 26.561 | 26.501 | 26.570 |
| Coal coke, imports and exports | Million Btu/short ton | 24.800 | 24.800 | 24.800 | 24.800 | 24.800 | 24.800 | 24.800 |
| | | - | - | - | 2 | 2 | 211000 | 21.000 |
| Crude oil | | | | | | | | |
| Production | Million Btu/barrel | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 |
| Imports | Million Btu/barrel | 5.817 | 5.827 | 5.821 | 5.808 | 5.810 | 5.802 | 5.810 |
| Exports | Million Btu/barrel | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 |
| Crude oil and petroleum products | | | | | | | | |
| Imports | Million Btu/barrel | 5.897 | 5.884 | 5.858 | 5.856 | 5.834 | 5.839 | 5.810 |
| Exports | Million Btu/barrel | 5.752 | 5.774 | 5.748 | 5.745 | 5.797 | 5.808 | 5.832 |
| Petroleum products ² | | | | | | | | |
| Consumption | Million Btu/barrel | 5.515 | 5.504 | 5.494 | 5.504 | 5.518 | 5.519 | 5.494 |
| Residential and commercial | Million Btu/barrel | 5.387 | 5.377 | 5.358 | 5.383 | 5.389 | 5.382 | 5.471 |
| Industrial | | 5.565 | 5.537 | 5.527 | 5.535 | 5.552 | 5.546 | 5.416 |
| Transportation | Million Btu/barrel | 5.397 | 5.394 | 5.392 | 5.396 | 5.402 | 5.407 | 5,430 |
| Electric utilities | Million Btu/barrel | 6.245 | 6.238 | 6.250 | 6.251 | 6.249 | 6.251 | 6.258 |
| Imports | Million Btu/barrel | 5.983 | 5.959 | 5.935 | 5.980 | 5.908 | 5.955 | 5.811 |
| Exports | Million Btu/barrel | 5.752 | 5.773 | 5.747 | 5.743 | 5.796 | 5.814 | 5.864 |
| LPG consumption | Million Btu/barrel | 3.746 | 3.730 | 3.715 | 3.711 | 3.677 | 3.669 | 3.680 |
| Natural gas plant liquids | | | | | | | | |
| Production | Million Btu/barrel | 4.049 | 4.011 | 3.984 | 3.964 | 3.941 | 3.925 | 3.955 |
| Natural gas | | | | | | | | |
| Production, dry | Btu/cubic foot | 1,021 | 1,024 | 1,021 | 1,020 | 1.021 | 1.019 | 1,021 |
| Production, wet | | 1,093 | 1.097 | 1,095 | 1,093 | 1,093 | 1,088 | 1,092 |
| Consumption | | 1,021 | 1.024 | 1,021 | 1,020 | 1,021 | 1,019 | 1,021 |
| Non-electric utility users | Btu/cubic foot | 1,020 | 1,024 | 1,020 | 1,019 | 1,019 | 1,016 | 1,018 |
| Electric utilities | Btu/cubic foot | 1,024 | 1,022 | 1,026 | 1,023 | 1,029 | 1,034 | 1,035 |
| imports | Btu/cubic foot | 1,026 | 1,027 | 1,026 | 1,025 | 1,026 | 1,030 | 1,037 |
| Exports | Btu/cubic foot | 1,023 | 1,016 | 1,014 | 1,013 | 1,013 | 1,013 | 1,013 |
| Approximate Heat Rates for Electr | - | 40.000 | | | 40.070 | 10 105 | 10.004 | 10.050 |
| Fossil fuel steam-electric power plant generation ³ | | 10,389 | 10,442 | 10,406 | 10,373 | 10,435 | 10,361 | 10,353 |
| Nuclear power plant generation | | 10,903 | 11,161 | 11,013 | 11,047 | 10,769 | 10,941 | 10,879 21,545 |
| Geothermal energy power plant generation Electricity consumption | | 21,674 3,412 | 21,674 3,412 | 21,611 3,412 | 21,611 3,412 | 21,611 3,412 | 21,611 3,412 | 3,412 |
| | Star Niowatti Oui | 0,412 | 0,412 | 0,412 | 0,412 | 0,412 | 0,412 | 0,412 |

| 1 11 | ncluo | des l | ease | conder | isate. |
|------|-------|-------|------|--------|--------|
|------|-------|-------|------|--------|--------|

Weighted averages of the products included in each category are calculated using heat content values shown on the first page of this

This is used as the thermal conversion factor for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

Sources: • See "Thermal Conversion Factor Source Documentation" on the following pages.

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Conversion Factors (continued)

Approximate Heat Content of Fuels, 1980–1985

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| | 11-14- | 1000 | 1001 | 1000 | 1000 | 1004 | 1005+ |
|--|--|----------------|----------------|--------|----------------|----------------|----------------|
| Coal | Units | 1980 | 1981 | 1982 | 1983 | 1984 | 1985‡ |
| Production | Million Btu/short ton | 22.415 | 22.309 | 22.240 | 22.056 | 22.014 | 22.014 |
| Consumption | Million Btu/short ton | | | 21.675 | | 22.014 | 21.577 |
| Non-electric utility users | | 21.947 | 21.714 | | 21.581 | | 24.069 |
| | | 24.731 | 24.477 | 24.194 | 24.093 | 24.069 | |
| Electric utilities | Million Btu/short ton | 21.295 | 21.085 | 21.194 | 21.133 | 21.101 | 21.101 |
| Imports | Million Btu/short ton | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 |
| Exports | Million Btu/short ton | 26.384 | 26.160 | 26.223 | 26.291 | 26.402 | 26.402 |
| Anthracite | | | | | | | |
| Production | Million Btu/short ton | 22.869 | 23.291 | 23.289 | 22.734 | 23.107 | 23.107 |
| Consumption | Million Btu/short ton | 21.405 | 22.080 | 22.485 | 21.583 | 22.322 | 22.322 |
| Non-electric utility users | Million Btu/short ton | 22.719 | 23.749 | 24.530 | 24.536 | 25.128 | 25.128 |
| Electric utilities | Million Btu/short ton | 17.652 | 18.168 | 18,160 | 16.516 | 17.018 | 17.018 |
| Imports and exports | Million Btu/short ton | 25.400 | 25.400 | 25.400 | 25.400 | 25.400 | 25.400 |
| Bituminous coal and lignite | | | | | | | |
| Production | Million Btu/short ton | 22.411 | 22.302 | 22.234 | 22.053 | 22.009 | 22.009 |
| Consumption | Million Btu/short ton | 21.950 | 21.712 | 21.671 | 21.581 | 21.574 | 21.574 |
| Residential and commercial | Million Btu/short ton | 22.488 | 22.191 | 22.373 | 22.934 | 22.880 | 22.880 |
| Coke plants | Million Btu/short ton | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 |
| | | | | | | | |
| Other industrial & transportation | | 22.690 | 22.572 | 22.694 | 22.679 | 22.524 | 22.524 |
| Electric utilities | Million Btu/short ton | 21.301 | 21.091 | 21.200 | 21.141 | 21.108 | 21.108 |
| Imports | Million Btu/short ton | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 |
| Exports | Million Btu/short ton | 26.404 | 26.176 | 26.231 | 26.300 | 26.410 | 26.410 |
| Coal coke, imports and exports | Million Btu/short ton | 24.800 | 24.800 | 24.800 | 24.800 | 24.800 | 24.800 |
| Crude oil ¹ | | | | | | | |
| Production | Million Btu/barrel | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 |
| Imports | Million Btu/barrel | 5.812 | 5.818 | 5.826 | 5.825 | 5.823 | 5.823 |
| Exports | Million Btu/barrel | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 |
| Crude oil and petroleum products | | | | | | | |
| Imports | Million Btu/barrel | 5.796 | 5.775 | 5.775 | 5.774 | 5.745 | 5.745 |
| Exports | Million Btu/barrel | 5.820 | 5.821 | 5.820 | 5.800 | 5.850 | 5.850 |
| Petroleum products ² | | | | | | | |
| Consumption | Million Btu/barrel | 5.479 | 5,448 | 5.415 | 5.406 | 5.395 | 5.395 |
| Residential and commercial | | 5.468 | 5,409 | 5.392 | 5.363 | 5.267 | 5.267 |
| Industrial | Million Btu/barrel | 5.376 | 5.310 | 5.262 | 5.279 | 5.305 | 5.305 |
| Transportation | | 5.440 | 5.434 | 5.423 | 5.416 | 5.424 | 5.424 |
| Electric utilities | | 6.254 | 6.258 | 6.258 | 6.255 | 6.251 | 6.251 |
| Imports | Million Btu/barrel | 5.748 | 5.659 | 5.664 | 5.677 | 5.613 | 5.613 |
| Exports | | | | | | | |
| LPG consumption | Million Btu/barrel Million Btu/barrel | 5.841 3.674 | 5.837 3.643 | 5.829 | 5.800 3.614 | 5.867 3.599 | 5.867 3.599 |
| Le d'onsumption | WIIIION BLU/Danei | 3.074 | 3.043 | 3.615 | 3.014 | 3.599 | 3.599 |
| Natural gas plant liquids Production | Million Btu/barrel | 3.914 | 3.930 | 3.872 | 3.839 | 3.812 | 3.812 |
| FIGUEIGI | Willion Blu/barrei | 3.914 | 3.930 | 3.072 | 3.039 | 3.012 | 3.012 |
| Natural gas | | | | | | | |
| Production, dry | Btu/cubic foot | 1,026 | 1,027 | 1,028 | 1,031 | 1,031 | 1,031 |
| Production, wet | | 1,098 | 1,103 | 1,107 | 1,115 | 1,109 | 1,109 |
| Consumption | Btu/cubic foot | 1,026 | 1,027 | 1,028 | 1,031 | 1,031 | 1,031 |
| Non-electric utility users | | 1,024 | 1,025 | 1,026 | 1,031 | 1,030 | 1,030 |
| Electric utilites | | 1,035 | 1,035 | 1,036 | 1,030 | 1,035 | 1,035 |
| Imports | | 1,022 | 1,014 | 1,018 | 1,024 | 1,005 | 1,005 |
| Exports | | 1,013 | 1,014 | 1,010 | 1,010 | 1,010 | 1,010 |
| American Hant Dates for Electro | | | | | | | |
| Approximate Heat Rates for Election | licity | | | | | | |
| Fossil fuel steam-electric power plant generations | | 10,388 | 10,453 | 10,423 | 10,445 | 10,369 | 10,369 |
| Nuclear power plant generation | Btu/kilowatthour | 10,908 | 11,030 | 11,073 | 10,905 | 10,800 | 10,800 |
| Geothermal energy power plant generation | Btu/kilowatthour | 21,639 | 21,639 | 21,629 | 21,290 | 21,303 | 21,303 |
| Electricity consumption | Btu/kilowatthour | 3,412 | 3.412 | 3.412 | 3.412 | 3.412 | 3.412 |

Electricity consumption..... Btu/kilowatthour

Includes lease condensate.
 Weighted averages of the products included in each category are calculated using heat content values shown on the first page of this section.
 This is used as the thermal conversion factor for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

3,412

3,412

 $\ddagger =$ Preliminary data. Sources: \bullet See "Thermal Conversion Factor Source Documentation" on the following pages.

3,412

3,412

3,412

3,412

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum Products

Asphalt. • 1973 forward: The Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

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Aviation Gasoline. • 1973 forward: EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *Competition and Growth in American Energy Markets* 1947–1985, 1968.

Butane. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. 1973 forward: EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See "Butane" and "Propane."

Distillate Fuel Oil. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, *Bureau of Mines Standard Average Heating Value of Various Fuels, adopted January 3, 1950.*

Ethane. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane-Propane Mixture. • 1979 forward: EIA calculated 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See "Ethane" and "Propane."

Isobutane. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene Type. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as published for "Jet Fuel, Commercial" by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, 1968.

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Jet Fuel, Naphtha Type. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel as published for "Jet Fuel, Military" by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, 1968.

Kerosene. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, *Bureau of Mines Standard Average Heating Values of Various Fuels, adopted January 3, 1950.*

Lubricants. • 1973 forward: EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Miscellaneous Products. • 1973 forward: EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Motor Gasoline. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel as published for "Gasoline, Motor Fuel" by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, 1968.

Natural Gasoline. • 1973 forward: EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Pentanes Plus. • 1984 forward: EIA assumed the thermal conversion factor to be 4.620 million Btu per barrel or equal to that for natural gasoline. See "Natural Gasoline."

Petrochemical Feedstocks, Naphtha 400 Degrees Fahrenheit or Less. • 1973 forward: Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphtha. See "Special Naphtha."

Petrochemical Feedstock, Oils Over 400 Degrees Fahrenheit. • 1973 forward: Assumed by EIA to be 5.825 million Btu per barrel, equal to the thermal conversion factor for distillate fuel oil. See "Distillate Fuel Oil."

Petrochemical Feedstock, Still Gas. • 1973 forward: Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See "Still Gas."

Petroleum Coke. • 1973 forward: EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum *Bureau of Mines Standard Average Heating Value of Various Fuels, adopted January 3, 1950.* The Bureau of Mines calculated this factor by dividing the 30,120,000 Btu per short ton as given in the referenced Bureau of Mines internal memorandum by 5.0 barrels per short ton as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Plant Condensate. • 1973 forward: Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. • 1973 forward: EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the Bureau of Mines internal memorandum *Bureau of Mines Standard Average Heating Values of Various Fuels, adopted January 3, 1950.*

Road Oil. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel which was assumed to be equal to that of asphalt (see "Asphalt") and was first published by the Bureau of Mines in the *Petroleum Statement*, *Annual*, 1970.

Special Naphtha. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel which was assumed to be equal to that of total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement*, *Annual*, 1970.

Still Gas. • 1973 forward: EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel and first published in the *Petroleum Statement, Annual, 1970.*

Unfinished Oil. • 1973 forward: EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see "Distillate Fuel Oil") and first published in the *Annual Report to Congress, Volume 3, 1977.*

Unfractionated Stream. • 1979 forward: EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for plant condensate (see "Plant Condensate") and first published in the *Annual Report to Congress, Volume 2, 1981.*

Wax. • 1973 forward: EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Approximate Heat Content of Fuels

Petroleum

Crude Oil, Exports. • 1973 forward: Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See "Crude Oil and Lease Condensate, Production."

Crude Oil, Imports. • 1973 forward: Calculated annually by EIA by weighting the thermal conversion factor of each type of crude oil imported by the quantity imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content using National Bureau of Standards, Miscellaneous

Publication No. 97, *Thermal Properties of Petroleum Products*, 1933.

Crude Oil and Lease Condensate, Production. • 1973 forward: EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum *Bureau of Mines Standard Average Heating Values of Various Fuels adopted January 3, 1950.*

Crude Oil and Petroleum Products, Exports. • 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported and crude oil exported weighted by the quantity of each petroleum product and crude oil exported. See "Petroleum Products, Exports" and "Crude Oil, Exports."

Crude Oil and Petroleum Products, Imports. • 1973 forward: Calculated annually by EIA as the

average of the thermal conversion factors for each petroleum product and each type of crude oil imported weighted by the quantity of each petroleum product and each type of crude oil imported. See "Crude Oil, Imports." and "Petroleum Products, Imports."

Natural Gas Plant Liquids, Production. • 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors of each natural gas plant liquid produced weighted by the quantity of each natural gas plant liquid produced.

Petroleum Products, Consumption. • 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed, weighted by the quantity of each petroleum product consumed.

Petroleum Products, Consumption by Electric Utilities. • 1973–1983: Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed at electric utilities, weighted by the quantity of each petroleum product consumed at electric utilities. The quantity of petroleum consumed is estimated in the State Energy Data System as documented in the *State Energy Data Report.* • 1984 forward: Estimated by EIA.

Petroleum Products, Consumption by Industrial Users. • 1973–1983: Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed in the industrial sector, weighted by the estimated quantity of each petroleum product consumed in the industrial sector. The quantity of petroleum products consumed is estimated in the State Energy Data System as documented in the *State Energy Data Report.* • 1984 forward: Estimated by EIA.

Petroleum Products, Consumption by Residential and Commercial Users. • 1973–1983: Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential and commercial sector, weighted by the estimated quantity of each petroleum product consumed in the residential and commercial sector. The quantity of petroleum products consumed is estimated in the State Energy Data System as documented in the *State Energy Data Report.* • 1984 forward: Estimated by EIA.

Petroleum Products, Consumption by Transportation Users. • 1973–1983: Calculated annually by EIA as the average of the thermal conversion factor for all petroleum products consumed in the transportation sector, weighted by the estimated quantity of each petroleum product consumed in the transportation sector. The quantity of petroleum products consumed is estimated in the State Energy Data System as documented in the *State Energy Data Report.* • 1984 forward: Estimated by EIA.

Petroleum Products, Exports. • 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product weighted by the quantity of each petroleum product exported.

Petroleum Products, Imports. • 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantity of each petroleum product imported.

Petroleum Products, Liquefied Petroleum Gases (LPG) Consumption. • 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors of each liquefied petroleum gas consumed weighted by the quantity of each liquefied petroleum gas consumed.

Natural Gas

Natural Gas, Consumption. • 1973–1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in *Gas Facts,* an AGA annual. • 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity of natural gas consumed. Heat content and quantity consumed are from Form EIA-176.

Natural Gas, Consumption by Electric Utilities. • 1973 forward: Calculated annually by EIA by dividing the total heat content of natural gas received at electric utilities by the total quantity received at electric utilities. The heat contents and receipts are from FERC Form 423 and predecessor forms.

Natural Gas, Consumption by Non-Electric Utility Users. • 1973 forward: Calculated annually by EIA by dividing the heat content of natural gas consumed by non-electric utility consumers by the quantity of nonelectric utility natural gas consumed. Data are from Forms EIA-176, FERC Form 423, EIA-759, and predecessor forms.

Natural Gas, Exports. • 1973 forward: Calculated annually by EIA by dividing the heat content of exported natural gas by the quantity of natural gas exported, both reported on Form FPC-14.

Natural Gas, Imports. • 1973 forward: Calculated annually by EIA by dividing the heat content of imported natural gas by the quantity of natural gas imported, both reported on Form FPC-14.

Natural Gas Production, Dry. • 1973 forward: Assumed by EIA to be equal to the thermal conversion factor for the consumption of dry natural gas. See "Natural Gas, Consumption."

Natural Gas Production, Wet. • 1973 forward: Calculated annually by EIA by adding the heat content of dry natural gas production and the total heat content of natural gas plant liquids production and dividing this sum by the total quantity of marketed (wet) natural gas production.

Coal and Coal Coke

Anthracite, Consumption. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of anthracite consumed by electric utilities and non-electric utilities by the total quantity of anthracite consumed.

Anthracite, Consumption by Electric Utilities. • 1973 forward: Calculated annually by EIA by dividing the heat content of anthracite receipts at electric utilities by the quantity of anthracite received at electric utilities. Heat contents and receipts are from FERC Form 423 and predecessor forms.

Anthracite, Consumption by Non-Electric Utility Users. • 1973 forward: Calculated annually by EIA by dividing the heat content of anthracite production less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of nonelectric utility anthracite consumption less the quantity of anthracite stock changes, losses, and unaccounted for.

Anthracite, Imports and Exports. • 1973 forward: EIA assumed the anthracite imports and exports to be freshly mined anthracite having an estimated heat content of 25.400 million Btu per short ton.

Anthracite, Production. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of freshly mined anthracite (estimated to have an average heat content of 25.400 million Btu per 'short ton) and the heat content of anthracite recovered from culm banks and river dredging (estimated to have an average heat content of 17.500 million Btu per short ton) by the total quantity of anthracite production. **Bituminous Coal and Lignite, Consumption.** • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite consumed by electric utilities, coal coke plants, other industrial plants, the residential and commercial sector, and the transportation sector by the sum of their respective tonnages.

Bituminous Coal and Lignite, Consumption by Coke Plants. • 1973 forward: Estimated by EIA to be 26.800 million Btu per short ton based on an input/output analysis of coal carbonization.

Bituminous Coal and Lignite, Consumption by Electric Utilities. • 1973 forward: Calculated annually by EIA by dividing the total heat content of bituminous coal and lignite received at electric utilities by the total quantity received at electric utilities. Heat contents and receipts are from FERC Form 423 and predecessor forms.

Bituminous Coal and Lignite, Consumption by Other Industrial and Transportation Users. • 1973: Calculated by EIA through regression analysis measuring the difference between the average Btu value of coal consumed by other industrial users and that of coal consumed at electric utilities in the 1974-1982 period. • 1974 forward: Calculated annually by EIA assuming that the bituminous coal and lignite delivered to other industrial users from each coalproducing district (reported on EIA Form 6 and predecessor Bureau of Mines Form 6-1419-Q) contained a heat value equal to bituminous coal and lignite received at electric utilities from each of the same coal-producing districts (reported on FERC Form 423). The average Btu value of coal by coalproducing district was applied to the volume of deliveries to other industrial users from each coalproducing district, and the sum total of the heat content was divided by the total volume of deliveries.

Bituminous Coal and Lignite, Consumption by Residential and Commercial Users. • 1973: Calculated by EIA through regression analysis measuring the difference between the average Btu value of coal consumed by residential and commercial users and that of coal consumed by electric utilities in the 1974-1982 period. • 1974 forward: Calculated annually by EIA by assuming that the bituminous coal and lignite delivered to residential and commercial users from each coal-producing district (reported on EIA Form 6 and predecessor Bureau of Mines Form 6-1419-Q) contained a heat value equal to bituminous coal and lignite received at electric utilities from each of the same coal-producing districts (reported on FERC Form 423). The average Btu value of coal by coal-producing district was applied to the volume of deliveries to residential and commercial users from

each coal-producing district, and the total of the heat value was divided by the total volume of deliveries.

Bituminous Coal and Lignite, Exports. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of exported metallurgical coal (estimated to average 27.000 million Btu per short ton) and the heat content of exported steam coal (estimated to have an average thermal content of 25.000 million Btu per short ton) by the total quantity of bituminous coal and lignite exported.

Bituminous Coal and Lignite, Imports. • 1973 forward: EIA estimated the average thermal conversion factor to be 25.000 million Btu per short ton.

Bituminous Coal and Lignite, Production. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite consumption, net exports, stock changes, and unaccounted for by the sum of their respective tonnages. Consumers' stock changes by sectors were assumed to have the same conversion factor as the consumption sector. Producers' stock changes and unaccounted for were assumed to have the same conversion factor as consumption by all users.

Coal, Consumption. • 1973 forward: Calculated annualy by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite consumption by the sum of their respective tonnages.

Coal, Consumption by Electric Utilities. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite received at electric utilities by the sum of their respective tonnages received.

Coal, Consumption by Non-Electric Utility Users. • 1973 forward: Calculated annualy by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite consumed by non-electric utility users by the sum of their respective tonnages.

Coal, Exports. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite exported by the sum of their respective tonnages.

Coal, Imports. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite imported by the sum of their respective tonnages.

Coal, Production. • 1973 forward: Calculated annually by EIA by dividing the sum of the total heat content of bituminous coal and lignite and anthracite production by the sum of their respective tonnages.

Coal Coke, Imports and Exports. • 1973 forward: EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Approximate Heat Rates for Electricity

Fossil Fuel Steam-Electric Power Plant Generation. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydroelectric, wood and waste, wind photovoltaic, or solar thermal electric energy sources. EIA has selected a rate that is equal to the prevailing annual average heat rate factor for fossil-fueled steam-electric power plants. By using this factor, it is possible to evaluate fossil fuel requirements for replacing these sources during periods of interruption such as drought. The heat. content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatthour. • 1973 forward: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States as published by EIA in Historical Plant Cost and Annual Production Expenses for Selected Electric Plants.

Geothermal Energy Power Plant Generation. • 1973–1981: Calculated annually by EIA by weighting the average annual heat rates of operating geothermal units by the installed nameplate capacities as reported on Form FPC-12. • 1982 forward: Estimated annually by EIA based on an informal survey of relevant plants.

Nuclear Power Plant Generation. • 1973 forward: Calculated annually by EIA by dividing the total heat content consumed in reactors at nuclear plants by the total (net) electricity generated by nuclear plants as reported on Form FERC-1, EIA-412 and predecessor forms.

Glossary

Anthracite. A hard, black, lustrous coal containing a high percentage of fixed carbon and a low percentage of volatile matter. It is often referred to as hard coal. It includes metaanthracite and semianthracite and conforms to ASTM Specification D388 for anthracite.

ASTM. The acronym for the American Society for Testing and Materials.

Base Gas. The total volume of natural gas in underground storage reservoirs that will maintain the required rate of delivery during an output cycle.

Bituminous Coal. Coal that is high in carbonaceous matter having a volatility greater than anthracite and a calorific value greater than lignite. In the United States, it is often referred to as soft coal. In this report, "bituminous coal" includes subbituminous coal and conforms to ASTM Specification D388 for bituminous coal and subbituminous coal. It is used for electricity generation, coke production, and space heating.

British Thermal Unit (Btu). The amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit (°F) at or near 39.2 °F. One Btu is equivalent to about 252 International Steam Table calories. An average Btu content of fuel is a heat value per unit quantity of fuel as determined from tests of fuel samples.

Butane. A normally gaseous, paraffinic hydrocarbon (C_4H_{10}) extracted from natural gas or refinery gas streams. It includes isobutane (a branch-chain configuration) and normal butane (a straight-chain configuration) and is covered by ASTM Specification 1835 and Natural Gas Processors Specifications for commercial butane. It is used primarily for blending into high-octane gasoline, for residential and commercial heating, and for industrial uses, especially the manufacture of chemicals and synthetic rubber.

Butylene. A normally gaseous, olefinic hydrocarbon (C_4H_8) recovered from refinery processes. Quantities are included with "normal butane" data.

City Gate Price of Natural Gas. Price of natural gas at the point it is transferred from a pipeline to a local distribution company.

Coal. Includes all ranks of coal—anthracite, bituminous coal (including subbituminous coal), and lignite—conforming to ASTM Specification D388.

Coal Coke. The strong, porous residue, consisting of carbon and mineral ash, that is formed when the volatile constituents of bituminous coal are driven off by heat in the absence of or in a limited supply of air. It is used primarily in blast furnaces for smelting ores, especially iron ore.

Crude Oil (including lease condensate). A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are excluded where identifiable.

Crude Oil Refinery Input. Total crude oil (including lease condensate) input to crude oil distillation units and other processing units.

Crude Oil Stocks. Stocks of crude oil and lease condensate held at refineries, in pipe-lines, at pipeline terminals, and on leases.

Crude Oil Wellhead Price. The average price at which all domestic crude oil is purchased. Prior to February 1976, the domestic crude oil wellhead price represented an estimate of the average of posted prices; after February 1976, the wellhead price represents an average of first sale prices.

Degree-Day Normals. Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1951–1980). These may be simple degree-day normals or population-weighted degree-day normals.

Degree-Days, Cooling. The number of degrees per day that the daily average temperature is above 65 °F. The daily average temperature is the mean of the maximum and minimum temperatures for a 24-hour period.

Degree-Days, Heating. The number of degrees per day that the daily average

temperature is below 65 °F. The daily average temperature is the mean of the maximum and minimum temperatures for a 24-hour period.

Degree-Days, Population-Weighted. Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions which are assigned weights based on the ratio of the population of the division to the total population of the State. Degreeday readings for each division are multiplied by the corresponding population weight for each division and these products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days. the Nation is divided into nine Census regions comprised of from three to eight States which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degree-day readings for each region are multiplied by the corresponding population weight for each region and these products are then summed to arrive at the national population-weighted degree-day figure.

Development Well. A well drilled within a proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Distillate Fuel Oil. Light fuel oils distilled during the refining process. Included are products known as No. 1, No. 2, and No. 4 fuel oils; and No. 1, No. 2, and No. 4 diesel fuels, conforming to ASTM Specifications D396 and D975, respectively. These products are used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation.

Dry Hole. An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Electrical System Energy Losses. The amount of energy lost during generation, transmission, and distribution of electricity, including plant use and unaccounted for electrical energy.

Electricity Generation. Net electricity (gross electricity output measured at the generator terminals, minus power plant use) generated at electric utilities. Excludes industrial electricity generation. International data are gross electricity output.

Electricity Sales. The gross electricity output measured at the generator terminals, minus power plant use and transmission and distribution losses. Included in each end-use sector are the following: commercial sales of electricity to businesses that generally require less than 1,000 kilowatts of service; industrial sales of electricity to businesses that generally require more than 1,000 kilowatts of service; residential sales of electricity to residences for household purposes; "other" sales of electricity to government, railways, street lighting authorities, and sales not elsewhere included.

Electric Utility. A corporation, person, agency, authority, or other entity that owns or operates facilities for the generation, transmission, distribution, or sale of electricity, primarily for use by the public.

Ethane. A normally gaseous, paraffinic hydrocarbon (C_2H_e) extracted from natural gas or refinery gas streams. It is used primarily as petrochemical feedstock for eventual production of chemicals and plastic materials.

Ethylene. A normally gaseous, olefinic hydrocarbon (C_2H_4) recovered from refinery processes. Quantities are included with "ethane" data.

Exploratory Well. A well drilled to find and produce oil or gas in an unproved area; to find a new reservoir in a field previously found to be productive of oil or gas in another reservoir; or to extend the limit of a known oil or gas reservoir.

Exports. Shipments of goods from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

FOB (Free on Board) Price of Imported Crude OII. The FOB price is the price actually charged at the producing country's port of loading. The reported price includes deductions for any rebates and discounts and additions of premiums where applicable, and should be the actual price paid with no adjustments for credit terms.

Fossil Fuel Steam-Electric Power Plant. An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Gas Well. A well completed for the production of natural gas from one or more gas zones or reservoirs. Such wells have no completions for the production of crude oil.

Geothermal Energy (As Used at Electric Utilities). Hot water or steam, extracted from geothermal reservoirs in the earth's crust, which is supplied to steam

turbines at electric utilities that drive generators to produce electricity.

Gross National Product (GNP). The total value of goods and services produced by the Nation's economy, before deduction of depreciation charges and other allowances for capital consumption. It includes the total purchases of goods and services by private consumers and government, gross private domestic capital investment, and net foreign trade.

Hydroelectric Power. Electricity generated by an electric power plant whose turbines are driven by falling water.

Imports. Receipts of goods into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories (see "Petroleum Imports").

Isobutane. See "Butane."

Landed Cost of Imported Crude Oil. The price of imported crude oil at the port of discharge. It includes the purchase price at the foreign port plus charges for transporting and insuring the crude oil from the purchase point to the port of discharge. It does not include import tariffs or fees, wharfage charges, or demurrage costs.

Lease and Plant Fuel. Natural gas used in lease operations, as gas processing plant fuel, and as net used for gas lift.

Lease Condensate. A natural gas liquid recovered from gas-well gas (associated and nonassociated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons. Generally, it is blended with crude oil for refining.

Lignite. A brownish-black coal of low rank with a high inherent moisture and volatile matter. It is also referred to as brown coal. It conforms to ASTM Specification D388 for lignite and is used almost exclusively for electric power generation.

Liquefled Petroleum Gases. Ethane, ethylene, propane, propylene, normal butane, butylene, ethanepropane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas plant liquids.

Motor Gasoline, Finished. A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition engines

and conforming to ASTM Specification D439. Included are finished leaded gasoline, finished unleaded gasoline, and gasohol. Excludes blendstock that has not been blended into finished motor gasoline and alcohol that has not been blended into gasohol.

Motor Gasoline, Leaded Premlum. A gasoline having an antiknock index of 93 with the use of lead additives or which contains more than 0.05 grams of lead per gallon or more than 0.005 grams of phosphorus per gallon. Includes gasohol.

Motor Gasoline, Leaded Regular. A gasoline having an antiknock index of 89 with the use of lead additives or which contains more than 0.05 grams of lead per gallon or more than 0.005 grams of phosphorus per gallon.

Motor Gasoline, Total. Includes finished leaded motor gasoline (premium and regular), finished unleaded motor gasoline (premium and regular), motor gasoline blending components, and gasohol.

Motor Gasoline, Unleaded Premlum. A gasoline having an antiknock index of 90 containing not more than 0.05 grams of lead per gallon and not more than 0.005 grams of phosphorus per gallon. Includes gasohol.

Motor Gasoline, Unleaded Regular. A gasoline having an antiknock index of 87 containing not more than 0.05 grams of lead per gallon and not more than 0.005 grams of phosphorus per gallon.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in natural reservoirs.

Natural Gas Plant Llquids. Natural gas liquids recovered from natural gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specifications of the ASTM and the Gas Processors Association and are classified as follows: ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e., products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas. kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Wellhead Price. The wellhead price of natural gas is calculated by dividing the total reported value at the wellhead by the total quantity produced

as reported by the appropriate agencies of individual producing States and the U.S. Geological Survey. The price includes all costs prior to shipment from the lease including gathering and compression costs in addition to State production, severance, and similar charges.

Net Electricity Generation. Gross generation less electricity consumed at the generating plant for station use. Electricity required for pumping at pumpedstorage plants is regarded as plant use and is deducted from gross generation.

Normal Butane. See "Butane."

Nuclear Power. Electricity generated by an electric power plant whose turbines are driven by steam generated in a reactor by heat from the fissioning of nuclear fuel.

Oil Well. A well completed for the production of crude oil from one or more oil zones or reservoirs.

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. This product includes isopentane, natural gasoline, and plant condensate.

Petroleum. A generic term applied to oil and oil products in all forms, such as crude oil, lease condensate, unfinished oils, petroleum products, natural gas plant liquids, and nonhydrocarbon compounds blended into finished petroleum products.

Petroleum Coke. A solid residue that is the final product of the cracking process in petroleum refining. It consists of aromatic hydrocarbons very poor in hydrogen. Calcination of petroleum coke can yield almost pure carbon or artificial graphite suitable for production of carbon or graphite electrodes, structural graphite, motor brushes, dry cells, and similar products. This product is reported as marketable or catalyst coke.

Petroleum Imports. Imports of petroleum into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, other U.S. territories and possessions, and the U.S. Foreign Trade Zones. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, naphtha less than 400 °F end-point, other oils over 400 °F end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Products Supplied. Total petroleum products supplied is the sum of the product supplied for each petroleum product, crude oil, unfinished oils, and gasoline blending components. For each of these, except crude oil, product supplied is calculated by adding refinery production, natural gas plant liquids production, new supply of other liquids, imports, and stock withdrawals; and subtracting stock additions, refinery inputs, and exports. Crude oil product supplied is the sum of crude oil burned on leases and at pipeline pump stations as reported on Form EIA-813.

Petroleum Stocks, Primary. Stocks of crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petrolum products by tanker, barge, or pipeline. Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve, is included. Excluded are stocks of foreign origin that are held in bonded warehouse storage.

Photovoltaic and Solar Thermal Energy (As Used at Electric Utilities). Energy radiated by the sun as electromagnetic waves (electromagnetic radiation) that is converted at electric utilities into electricity by means of solar (photovoltaic) cells or concentrating (focusing) collectors.

Propane. A normally gaseous, paraffinic, hydrocarbon (C_3H_8). It is extracted from natural gas or refinery gas streams and includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D1835. Propane is used primarily for residential and commercial heating and cooling, and also as a fuel for transportation. Industrial uses of propane include use as a petrochemical feedstock.

Propylene. A normally gaseous, olefinic hydrocarbon $(C_{3}H_{6})$ recovered from refinery processes. Quantities are included with "propane" data.

Refiner Acquisition Cost. The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Residual Fuel Oil. The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. Included are No. 5 and No. 6 fuel oils that conform to ASTM Specification D396, Navy Special fuel oil, and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and for various industrial purposes. Imports of residual fuel oil include imported crude oil burned as fuel.

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Rotary Rig. A machine, used for drilling wells, that employs a rotating tube attached to a bit for boring holes through rock.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Subbituminous Coal. A dull, black coal of rank intermediate between lignite and bituminous coal. It conforms to ASTM Specification D388 for subbituminous coal and is used almost exclusively for electric power generation. In this report, quantities are included with "bituminous coal" data.

Supplemental Gaseous Fuels. Consists primarily of synthetic natural gas, propane-air, and refinery (still) gas. May also include coke oven gas, biomass gas, manufactured gas, and air injected for Btu stabilization.

Synthetic Natural Gas (SNG). A product resulting from the manufacture, conversion, or reforming of hydrocarbons that may be easily substituted for, or interchanged with, pipeline-quality natural gas.

Unaccounted for Crude Oil. Represents the arithmetic difference between the indicated demand for crude oil and the total disposition of crude oil. Indicated demand is the sum of crude oil production and imports less changes in crude oil stocks. Total disposition of crude oil is the sum of refinery input of crude oil, exports of crude oil, crude oil burned as fuel, and crude oil losses.

United States. Unless otherwise noted, "United States" in this publication means the 50 States and the District of Columbia. U.S. exports include shipments to U.S. Territories, and imports include receipts from U.S. Territories.

Wind Energy (As Used at Electric Utilities). The kinetic energy of wind converted at electric utilities into mechanical energy by wind turbines (i.e., blade rotating from a hub) that drive generators to produce electricity.

Wood and Waste (As Used at Electric Utilities). Wood energy (see "Wood Energy"), garbage, bagasse, sewerage gas and other industrial, agricultural, and urban refuse used to generate electricity.

Wood Energy. Wood and wood products used as fuel. Included are round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, and spent pulping liquor.

Working Gas. The total volume of gas in a storage reservoir that is in excess of the base gas.

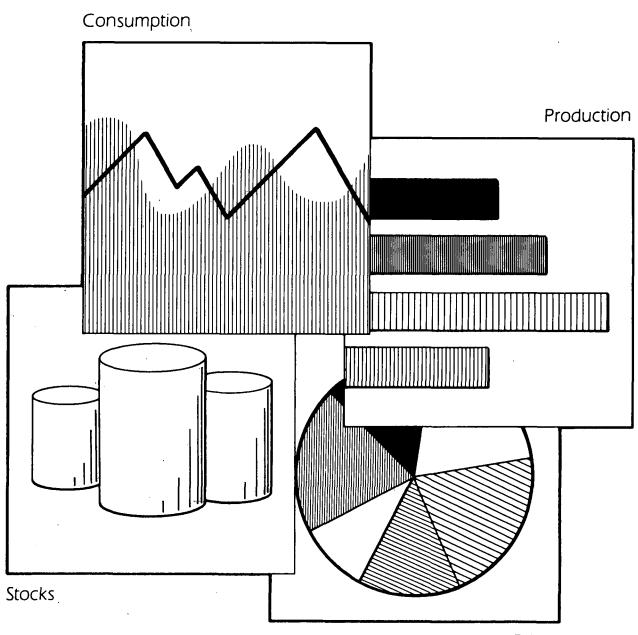
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