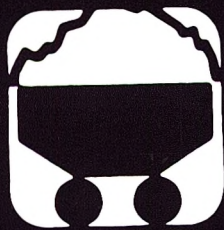


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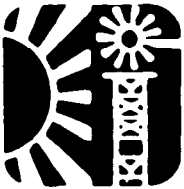
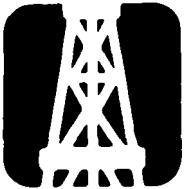
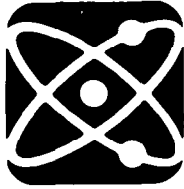
Energy Information Administration

Monthly Energy Review

September 1986



First Three Quarters 1986 Summaries



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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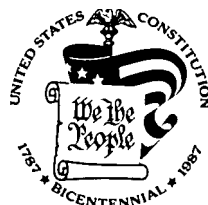
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Monthly Energy Review

September 1986

Energy Information Administration
Office of Energy Markets and
End Use
U.S. Department of Energy
Washington, D.C. 20585



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.



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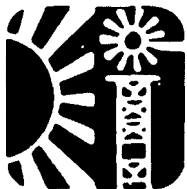
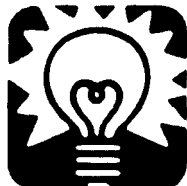
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| Information Services of the Energy Information Administration | September | 1981 |
| An Overview of Natural Gas Markets | December | 1981 |
| The Interstate and Intrastate Natural Gas Markets..... | January | 1982 |
| Natural Gas Drilling and Production Under the Natural Gas Policy Act..... | February | 1982 |
| Impacts of Financial Constraints on the Electric Utility Industry..... | October | 1982 |
| The Effect of Weather on Energy Use | April | 1983 |
| Trends in U.S. Energy Since 1973..... | May | 1983 |
| Data Series on Petroleum Use at Electric Utilities | July | 1983 |
| Residential Energy Consumption, 1978 Through 1981 | September | 1983 |
| Exploring for Oil and Gas | November | 1983 |
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| Estimating Well Completions..... | March | 1985 |
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| U.S. Energy Industry Financial Developments, 1986 Second Quarter | June | 1986 |

Highlights

Summaries of Energy Information Administration reports have appeared as "Highlights" in this publication since 1982. The following is a list of all the reports that have been summarized in previous issues.

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|--|-----------|------|
| <i>U.S. Crude Oil, Natural Gas, and Natural Gas Liquids</i> | | |
| <i>Reserves, 1981 Annual Report</i> | September | 1982 |
| <i>Energy Company Development Patterns in the</i> | | |
| <i>Postembargo Era, Volume One.....</i> | November | 1982 |
| <i>Residential Energy Consumption Survey:</i> | | |
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| <i>Railroad Deregulation: Impact on Coal.....</i> | August | 1983 |
| <i>Port Deepening and User Fees: Impact on U.S. Coal Exports</i> | August | 1983 |
| <i>U.S. Crude Oil, Natural Gas, and Natural Gas Liquids</i> | | |
| <i>Reserves, 1982 Annual Report</i> | September | 1983 |
| <i>Annual Energy Review 1983.....</i> | February | 1984 |
| <i>State Energy Data Report, Consumption Estimates, 1960-1982.....</i> | March | 1984 |
| <i>Annual Energy Outlook 1983.....</i> | March | 1984 |
| <i>State Energy Price and Expenditure Report, 1970-1981</i> | May | 1984 |
| <i>Solar Collector Manufacturing Activity 1983.....</i> | June | 1984 |
| <i>Estimates of U.S. Wood Energy Consumption, 1980-1983.....</i> | September | 1984 |
| <i>International Energy Annual 1983.....</i> | September | 1984 |
| <i>Energy Conservation Indicators 1983 Annual Report.....</i> | November | 1984 |
| <i>Annual Energy Outlook 1984.....</i> | December | 1984 |
| <i>Annual Energy Review 1984.....</i> | January | 1985 |
| <i>Performance Profiles of Major Energy Producers 1983</i> | February | 1985 |
| <i>State Energy Price and Expenditure Report 1970-1982</i> | March | 1985 |
| <i>State Energy Data Report, Consumption Estimates, 1960-1983.....</i> | April | 1985 |
| <i>Annual Outlook for U.S. Electric Power 1985.....</i> | June | 1985 |
| <i>Short-Term Energy Outlook, Volume 1, October 1985.....</i> | August | 1985 |
| <i>Analysis of Growth in Electricity Demand, 1980-1984</i> | August | 1985 |
| <i>Profiles of Foreign Direct Investment in U.S. Energy 1984.....</i> | November | 1985 |
| <i>Performance Profiles of Major Energy Producers 1984</i> | December | 1985 |

Highlights

International Energy Annual 1985

In 1985, world energy production reached 302 quadrillion British thermal units (Btu), up less than 2 percent from 1984 but 23 percent above 1975 production (Table 1). By region, North America accounted for the largest share of world production, followed by Eastern Europe plus the U.S.S.R. and the Far East plus Oceania. In addition to regional and summary data, the *International Energy Annual 1985* provides detailed energy data by energy source and by country.

World Leaders in Energy Production

The United States ranked first in total world energy production in 1985 with 65 quadrillion Btu. The U.S.S.R. ranked second and China ranked a distant third, with 64 quadrillion Btu and 25 quadrillion Btu, respectively.

In 1985, the U.S.S.R. led world production of petroleum¹ with a reported output of 25 quadrillion Btu, followed by the United States with 21 quadrillion Btu (Figure 1). The two leading producers together accounted for 39 percent of world petroleum production.

The U.S.S.R. also led in the production of natural gas² (21 quadrillion Btu), followed by the United States (17 quadrillion Btu). Combined production accounted for 63 percent of the world total in 1985.

¹Petroleum production includes production of crude oil, natural gas plant liquids, and other liquids (fuel alcohol and liquid hydrocarbons from coal) and world refinery processing gains.

²Dry natural gas only; natural gas plant liquids are included with petroleum.

Worldwide, China produced the largest quantity of coal, but the United States led world coal production in terms of heat content. U.S. production totaled 19 quadrillion Btu, followed by China's production of 18 quadrillion Btu and the U.S.S.R.'s production of 13 quadrillion Btu. The three leading producers together accounted for 60 percent of the world total.

Canada and the United States were the leading producers of hydroelectric power (3 quadrillion Btu each). The United States led world production of nuclear power (4 quadrillion Btu), followed by France (2 quadrillion Btu).

Energy Sources

Petroleum accounted for the largest share of world energy production, followed by coal and natural gas. Those fuels accounted for 88 percent of the world total. Despite growth in market share compared with 1975 levels, hydroelectric and nuclear power accounted for only 12 percent of the world total in 1985.

Petroleum. World petroleum production totaled 59.6 million barrels per day, and total output of refined petroleum products was 60.3 million barrels per day in 1984.³ Worldwide, motor gasoline accounted for 26 percent of product output. In North America, motor gasoline accounted for a 44-percent share, whereas in no other region did the share exceed 22 percent. In contrast, fuel oil (distillate and residual) accounted for over half of refinery output in

³Latest year for which detailed international energy data are available for this energy source.

Table 1. World Energy Production by Region, 1975-1985 (Quadrillion Btu)

| Region | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 ¹ |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------------|
| North America | 71 | 71 | 72 | 74 | 78 | 81 | 81 | 81 | 79 | 85 | 84 |
| Central and South America | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 13 |
| Western Europe | 21 | 22 | 24 | 25 | 27 | 29 | 30 | 31 | 32 | 32 | 35 |
| Eastern Europe and U.S.S.R. | 57 | 60 | 63 | 65 | 68 | 69 | 70 | 72 | 74 | 77 | 79 |
| Middle East | 44 | 49 | 50 | 47 | 49 | 42 | 37 | 30 | 27 | 27 | 25 |
| Africa | 13 | 15 | 16 | 17 | 18 | 17 | 15 | 15 | 16 | 17 | 18 |
| Far East and Oceania | 29 | 31 | 33 | 35 | 37 | 37 | 38 | 39 | 42 | 46 | 49 |
| World Total | 246 | 260 | 269 | 275 | 289 | 287 | 282 | 280 | 282 | 297 | 302 |

¹Preliminary.

Notes: *Production comprises crude oil, lease condensate, natural gas plant liquids, dry natural gas, coal, net hydroelectric power, and net nuclear power. *Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, *International Energy Annual 1985*, DOE/EIA-0219(85) (Washington, DC, October 1986), p. 81.

all regions except North America, where its share was only 28 percent.

Natural Gas. Of the 72 trillion cubic feet of natural gas gross production in 1984,³ 95 percent was used as dry natural gas, reinjected into reservoirs, or consumed in the processing of natural gas plant liquids. The remaining 3.5 trillion cubic feet were vented and flared⁴ as waste. The United States accounted for 28 percent of all natural gas output but only 3 percent of the loss of gas due to venting and flaring. In contrast, the U.S.S.R. produced 30 percent of the world total and accounted for 11 percent of the world loss. Saudi Arabia flared about half of its natural gas production and Nigeria flared 80 percent.

Coal. Bituminous coal accounted for 67 percent of world coal production of 4.7 billion short tons in 1984.³ Lignite, mined primarily in Europe, accounted for 27 percent, and anthracite accounted for the remaining 6 percent. The United States produced 896 million short tons, 92 percent of which was bituminous coal. China ranked second in world coal production, with 870 million short tons. The U.S.S.R. was third, with 785 million short tons.

Hydroelectricity. Canada, the United States, the U.S.S.R., Brazil, and Norway generated 1.1 trillion kilowatthours of hydroelectricity, 55 percent of the world total in 1985. Almost 100 percent of Norway's total electricity generation came from hydroelectric power, and in Brazil, the figure was over 90 percent.

⁴Vented gas is gas that is released into the air; flared gas is gas that is burned in flares.

By comparison, only about 12 percent of total U.S. electricity generation came from hydroelectric power.

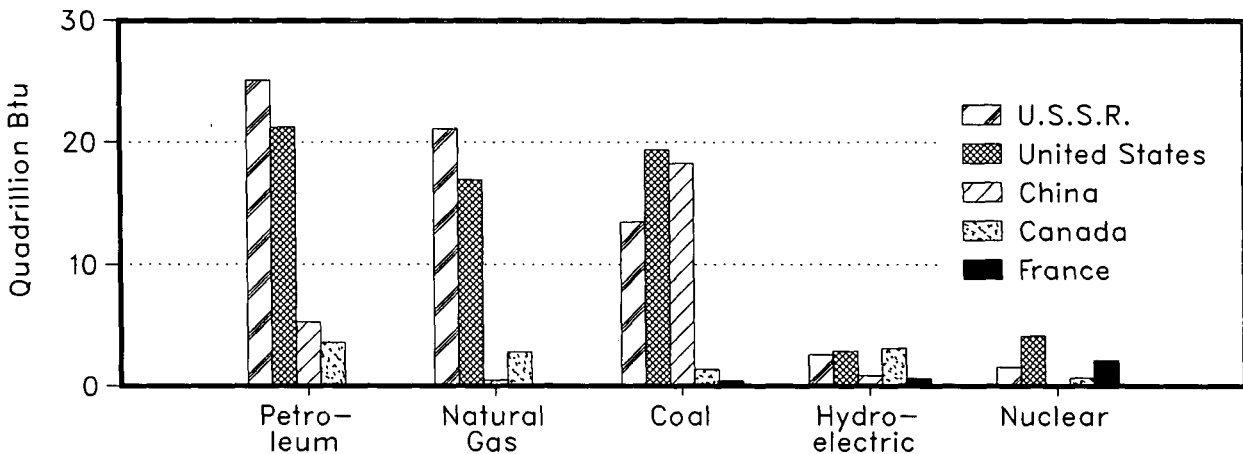
Nuclear Power. U.S. generation of 384 billion kilowatthours of nuclear-based electricity was the highest of any country and accounted for 28 percent of the 1985 world total; however, it met only about 15 percent of total U.S. electricity demand. France, the second-largest producer of nuclear-based electricity, generated 213 billion kilowatthours, 65 percent of total electricity generation in that country.

For Further Information

The *International Energy Annual 1985*, published by the Energy Information Administration in October 1986, presents data on energy supply and demand, prices, and reserves by energy source and by country. Most series present data in physical units (such as barrels per day) for 1984; five summary tables present data expressed in a standardized unit (Btu) for 1975 through 1985. In addition, maps depict the international flow in 1984 of the three major fossil fuels. An extensive list of sources is provided.

The 129-page report may be obtained by using the order form in the back of this publication.

Figure 1. World Leaders in Energy Production, 1985 (Quadrillion Btu)



Source: Energy Information Administration, *International Energy Annual 1985*, DOE/EIA-0219(85) (Washington, DC, October 1986), pp. x-xi.

First Three Quarters 1986 Summary

U.S. energy production in the first three quarters of 1986 was 48.2 quadrillion British thermal units (Btu), 0.6 percent¹ below the level in the first three quarters of 1985 (summary table). Consumption of energy totaled 55.2 quadrillion Btu, down slightly from the 1985 level (Figure 1). Net imports totaled 7.3 quadrillion Btu, up 29.5 percent from the level in the first three quarters of 1985 but below the all-time high for first-three-quarter net imports (13.7 quadrillion Btu) reached in 1977.

Production

Most energy prices declined substantially, and production of two major fossil fuels registered

¹All statistics for 1986 are preliminary. Percentage changes are calculated using daily rates prior to rounding.

decreases in the first three quarters of 1986 compared with the first three quarters of 1985. Natural gas production fell to 12.2 quadrillion Btu, down 2.7 percent. Petroleum production fell to 15.6 quadrillion Btu, down 1.6 percent, due to crude oil production declines in the lower 48 States; Alaskan production increased only slightly and production of natural gas plant liquids was unchanged. In contrast, coal production increased 0.3 percent to 14.6 quadrillion Btu.

Nuclear-based electricity generation rose to an all-time high for first-three-quarter generation in 1986. Oil-fired electricity generation also increased, reversing a 7-year decline in first-three-quarter generation. Coal-fired generation, however, was down slightly from the record level attained in the first three quarters of 1985.

Energy Summary (Quadrillion (10¹⁵) Btu)

| | September | | | Cumulative January Through September | | | | |
|--------------------------------------|--------------|--------------|-----------------------------|--------------------------------------|-----------------|---------------|-----------------|-----------------------------|
| | 1986 | 1985 | Percent Change ¹ | 1986 | 1986 Daily Rate | 1985 | 1985 Daily Rate | Percent Change ¹ |
| Total Production² | 5.214 | 5.257 | -0.8 | 48.186 | 0.177 | 48.462 | 0.178 | -0.6 |
| Petroleum ³ | 1.678 | 1.738 | -3.4 | 15.609 | 0.057 | 15.864 | 0.058 | -1.6 |
| Natural Gas (Dry) | 1.287 | 1.316 | -2.2 | 12.248 | 0.045 | 12.588 | 0.046 | -2.7 |
| Coal | 1.617 | 1.618 | -0.1 | 14.579 | 0.053 | 14.529 | 0.053 | 0.3 |
| Other ⁴ | 0.632 | 0.585 | 8.0 | 5.750 | 0.021 | 5.480 | 0.020 | 4.9 |
| Total Consumption² | 5.597 | 5.561 | 0.7 | 55.170 | 0.202 | 55.213 | 0.202 | -0.1 |
| Petroleum ⁵ | 2.546 | 2.440 | 4.3 | 23.578 | 0.086 | 22.980 | 0.084 | 2.6 |
| Natural Gas ⁶ | 0.964 | 1.075 | -10.4 | 12.491 | 0.046 | 13.345 | 0.049 | -6.4 |
| Coal | 1.413 | 1.425 | -0.8 | 13.040 | 0.048 | 13.099 | 0.048 | -0.5 |
| Other ⁷ | 0.674 | 0.620 | 8.7 | 6.061 | 0.022 | 5.789 | 0.021 | 4.7 |
| Net Imports | 0.958 | 0.599 | 59.8 | 7.264 | 0.027 | 5.610 | 0.021 | 29.5 |
| Petroleum ⁸ | 1.081 | 0.715 | 51.2 | 8.162 | 0.030 | 6.423 | 0.024 | 27.1 |
| Natural Gas | 0.046 | 0.058 | -20.7 | 0.463 | 0.002 | 0.647 | 0.002 | -28.5 |
| Coal ⁹ | (0.211) | (0.208) | (1.0) | (1.673) | (0.006) | (1.768) | (0.006) | (-5.4) |
| Other ¹⁰ | 0.042 | 0.035 | 20.4 | 0.312 | 0.001 | 0.308 | 0.001 | 1.1 |

¹Based on daily rates prior to rounding.

²Production and consumption totals exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

³Includes crude oil, lease condensate, and natural gas plant liquids.

⁴Other is hydroelectric and nuclear electric power, and electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

⁵Includes petroleum products.

⁶Includes supplemental gaseous fuels.

⁷Other is hydroelectric and nuclear electric power; electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy; and net imports of electricity and coal coke.

⁸Includes crude oil, lease condensate, petroleum products, pentanes plus, unfinished oils, gasoline blending components, and imports of crude oil for the Strategic Petroleum Reserve.

⁹Parentheses indicate exports are greater than imports.

¹⁰Other is net imports of electricity and coal coke.

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

Consumption

Despite continued modest growth in the U.S. economy, total energy consumption declined in the first three quarters of 1986. Energy consumption per dollar of gross national product fell to 20.0 thousand Btu per 1982 dollar in the third quarter. In 1973, the ratio was 27.1 thousand Btu per 1982 dollar.

Natural gas consumption fell to 12.5 quadrillion Btu in the first three quarters of 1986, down 6.4 percent from the level in the first three quarters of 1985. Coal consumption fell to 13.0 quadrillion Btu, down 0.5 percent. The declines in consumption of natural gas and coal were partially offset by a 2.6-percent increase in petroleum consumption, which rose to 23.6 quadrillion Btu in the first three quarters of 1986.

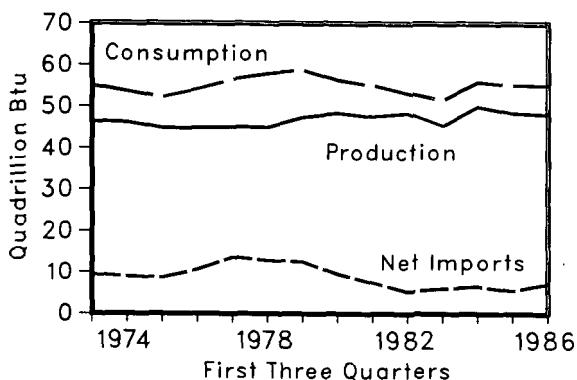
Trade

Energy net imports in the first three quarters of 1986 were 29.5 percent higher than in the first three quarters of 1985. The increase was due to a 27.1-percent increase in petroleum net imports and a 5.4-percent decrease in coal net exports, which more than offset a 28.5-percent fall in natural gas net imports.

The composite refiners' acquisition cost of crude oil in September 1986 was \$13.11 per barrel, down from \$26.45 per barrel in September 1985. Despite lower prices, an energy trade deficit of \$22.8 billion was recorded for the first three quarters of 1986.

Net imports of petroleum reached 5.2 million barrels per day in the first three quarters of 1986, up from

Figure 1. U.S. Energy Production, Consumption, and Net Imports, First Three Quarters, 1973-1986



Note: 1986 data are preliminary.
Source: Energy Information Administration calculations based on data reported elsewhere in Part 1 of this publication.

4.1 million barrels per day in the first three quarters of 1985. Crude oil net imports rose from 2.8 million barrels per day to 3.9 million barrels per day, while petroleum product net imports rose less than 0.1 million barrels per day to 1.3 million barrels per day.

Petroleum net imports from all members of the Organization of Petroleum Exporting Countries (OPEC) averaged 2.7 million barrels per day. Petroleum net imports from Arab members alone averaged 1.1 million barrels per day, up from 0.4 million barrels per day in the first three quarters of 1985.

As a percent of U.S. petroleum products supplied, petroleum net imports from all countries rose to 32.5 percent, up from 26.3 percent in the first three quarters of 1985. Net imports from OPEC equaled 16.7 percent of U.S. petroleum products supplied in the first three quarters of 1986, up from 10.7 percent in the first three quarters of 1985, and net imports from Arab members of OPEC rose from 2.5 percent to 6.9 percent. By comparison, Arab members of OPEC provided 16.5 percent of U.S. petroleum products supplied in 1979, when U.S. dependence on those sources peaked.

Costs to End Users

As prices of crude oil and natural gas declined, costs of energy to end users also declined. The price of leaded regular motor gasoline in September 1986 averaged \$0.80 per gallon, down from \$1.13 per gallon in September 1985. The price of natural gas sold to residential customers also declined, from \$7.06 per thousand cubic feet in September 1985 to \$6.82 per thousand cubic feet in September 1986. The average retail price of electricity to residential customers was essentially unchanged at about 8 cents per kilowatt-hour. On a dollar-per-Btu basis, electricity remained one of the most expensive sources of energy.

Outlook

According to the Energy Information Administration's October *Short-Term Energy Outlook*, U.S. energy consumption for 1986 is projected to increase from the 1985 level by less than 1 percent to 74.3 quadrillion Btu. Demand for petroleum is projected to increase by nearly 3 percent to almost 16.2 million barrels per day, and domestic crude oil production is projected to decrease to 8.8 million barrels per day. As a result, petroleum net imports are projected to average nearly 5.2 million barrels per day in 1986, up sharply from the 1985 level of 4.3 million barrels per day.

Energy Summary

Production of Energy by Source—Quarterly Summary

| | | Coal | Crude Oil ¹ | NGPL ² | Natural Gas (Dry) | Hydro-electric Power ³ | Nuclear Electric Power | Other ⁴ | Total ⁵ |
|-------------------------------------|--------------|----------------|------------------------|-------------------|-------------------|-----------------------------------|------------------------|--------------------|--------------------|
| Quadrillion (10 ¹²) 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 | 1st Quarter | 4.028 | 4.455 | 0.550 | 5.084 | 0.756 | 0.849 | 0.020 | 15.742 |
| | 2nd Quarter | 4.583 | 4.502 | 0.570 | 4.953 | 0.831 | 0.539 | 0.021 | 15.998 |
| | 3rd Quarter | 4.262 | 4.524 | 0.571 | 4.889 | 0.660 | 0.727 | 0.023 | 15.654 |
| | 4th Quarter | 4.667 | 4.623 | 0.595 | 5.151 | 0.684 | 0.661 | 0.025 | 16.406 |
| | Total | 17.539 | 18.104 | 2.286 | 20.076 | 2.931 | 2.776 | 0.089 | 63.800 |
| 1980 | 1st Quarter | 4.619 | 4.588 | 0.578 | 5.287 | 0.746 | 0.644 | 0.024 | 16.486 |
| | 2nd Quarter | 4.753 | 4.552 | 0.571 | 4.885 | 0.864 | 0.605 | 0.028 | 16.258 |
| | 3rd Quarter | 4.449 | 4.549 | 0.547 | 4.706 | 0.666 | 0.752 | 0.031 | 15.701 |
| | 4th Quarter | 4.776 | 4.559 | 0.558 | 5.029 | 0.624 | 0.738 | 0.032 | 16.316 |
| | Total | 18.597 | 18.249 | 2.254 | 19.907 | 2.900 | 2.739 | 0.114 | 64.761 |
| 1981 | 1st Quarter | 4.799 | 4.481 | 0.581 | 4.995 | 0.678 | 0.743 | 0.033 | 16.310 |
| | 2nd Quarter | 3.032 | 4.519 | 0.570 | 4.942 | 0.754 | 0.679 | 0.031 | 14.527 |
| | 3rd Quarter | 5.233 | 4.569 | 0.575 | 4.881 | 0.683 | 0.821 | 0.033 | 16.795 |
| | 4th Quarter | 5.313 | 4.577 | 0.581 | 4.880 | 0.644 | 0.765 | 0.030 | 16.790 |
| | Total | 18.377 | 18.146 | 2.307 | 19.699 | 2.758 | 3.008 | 0.127 | 64.422 |
| 1982 | 1st Quarter | 4.943 | 4.502 | 0.547 | 4.916 | 0.879 | 0.760 | 0.023 | 16.570 |
| | 2nd Quarter | 4.813 | 4.561 | 0.537 | 4.572 | 0.884 | 0.747 | 0.025 | 16.137 |
| | 3rd Quarter | 4.479 | 4.623 | 0.541 | 4.385 | 0.749 | 0.840 | 0.030 | 15.647 |
| | 4th Quarter | 4.405 | 4.624 | 0.566 | 4.382 | 0.745 | 0.785 | 0.030 | 15.536 |
| | Total | 18.639 | 18.309 | 2.191 | 18.255 | 3.256 | 3.131 | 0.108 | 63.890 |
| 1983 | 1st Quarter | 4.241 | 4.550 | 0.541 | 4.215 | 0.922 | 0.776 | 0.028 | 15.273 |
| | 2nd Quarter | 4.121 | 4.587 | 0.526 | 3.851 | 0.970 | 0.747 | 0.026 | 14.828 |
| | 3rd Quarter | 4.385 | 4.642 | 0.553 | 4.040 | 0.798 | 0.838 | 0.041 | 15.297 |
| | 4th Quarter | 4.503 | 4.613 | 0.564 | 4.424 | 0.812 | 0.842 | 0.039 | 15.796 |
| | Total | 17.250 | 18.392 | 2.184 | 16.530 | 3.502 | 3.203 | 0.133 | 61.194 |
| 1984 | 1st Quarter | 4.911 | 4.646 | 0.555 | 4.682 | 0.908 | 0.923 | 0.039 | 16.664 |
| | 2nd Quarter | 5.068 | 4.693 | 0.560 | 4.393 | 0.934 | 0.818 | 0.041 | 16.507 |
| | 3rd Quarter | 5.385 | 4.746 | 0.576 | 4.342 | 0.758 | 0.943 | 0.044 | 16.793 |
| | 4th Quarter | 4.359 | 4.763 | 0.582 | 4.515 | 0.711 | 0.870 | 0.050 | 15.849 |
| | Total | 19.723 | 18.848 | 2.274 | 17.931 | 3.312 | 3.553 | 0.174 | 65.814 |
| 1985 | 1st Quarter | R4.664 | 4.672 | 0.554 | R4.533 | 0.806 | 1.063 | 0.052 | R16.344 |
| | 2nd Quarter | R4.991 | 4.785 | 0.551 | R4.050 | 0.772 | 0.932 | 0.048 | R16.130 |
| | 3rd Quarter | R4.874 | 4.750 | 0.553 | R4.005 | 0.621 | 1.133 | 0.053 | R15.989 |
| | 4th Quarter | R4.799 | 4.785 | 0.578 | R4.336 | 0.705 | 1.032 | 0.060 | R16.294 |
| | Total | R19.329 | 18.992 | 2.235 | R16.924 | 2.903 | 4.160 | 0.213 | R64.756 |
| 1986 | 1st Quarter | R5.015 | 4.667 | 0.576 | R4.386 | 0.759 | 1.081 | 0.062 | R16.546 |
| | 2nd Quarter | R4.847 | 4.647 | 0.544 | R3.932 | 0.837 | 1.016 | 0.056 | R15.878 |
| | 3rd Quarter | 4.717 | 4.645 | 0.530 | 3.931 | 0.685 | 1.192 | 0.060 | 15.761 |

¹Includes lease condensate.

²Natural gas plant liquids.

³Includes industrial and utility production of hydroelectric power.

⁴Other is electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

⁵Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

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.

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

Energy Summary

Consumption of Energy by Source—Quarterly Summary

| | | Coal | Natural Gas ¹ | Petroleum | Hydro-electric Power ² | Nuclear Electric Power | Other ³ | Total ⁴ |
|-------------------------------------|--------------|----------------|--------------------------|---------------|-----------------------------------|------------------------|--------------------|--------------------|
| Quadrillion (10 ¹⁵) 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 | 1st Quarter | 3.769 | 6.648 | 10.072 | 0.808 | 0.849 | 0.029 | 22.174 |
| | 2nd Quarter | 3.572 | 4.423 | 8.837 | 0.883 | 0.539 | 0.046 | 18.300 |
| | 3rd Quarter | 3.876 | 4.085 | 8.879 | 0.713 | 0.727 | 0.047 | 18.326 |
| | 4th Quarter | 3.823 | 5.510 | 9.337 | 0.737 | 0.661 | 0.030 | 20.098 |
| | Total | 15.039 | 20.666 | 37.123 | 3.141 | 2.776 | 0.152 | 78.898 |
| 1980 | 1st Quarter | 3.995 | 6.606 | 9.143 | 0.800 | 0.644 | 0.023 | 21.212 |
| | 2nd Quarter | 3.546 | 4.255 | 8.177 | 0.919 | 0.605 | 0.014 | 17.516 |
| | 3rd Quarter | 4.020 | 3.977 | 8.123 | 0.721 | 0.752 | 0.019 | 17.612 |
| | 4th Quarter | 3.861 | 5.553 | 8.759 | 0.678 | 0.738 | 0.023 | 19.612 |
| | Total | 15.423 | 20.391 | 34.202 | 3.118 | 2.739 | 0.079 | 75.952 |
| 1981 | 1st Quarter | 4.069 | 6.237 | 8.391 | 0.763 | 0.743 | 0.029 | 20.232 |
| | 2nd Quarter | 3.677 | 4.337 | 7.732 | 0.841 | 0.679 | 0.025 | 17.291 |
| | 3rd Quarter | 4.191 | 3.997 | 7.785 | 0.770 | 0.821 | 0.032 | 17.596 |
| | 4th Quarter | 3.971 | 5.355 | 8.023 | 0.731 | 0.765 | 0.025 | 18.870 |
| | Total | 15.908 | 19.926 | 31.931 | 3.105 | 3.008 | 0.111 | 73.989 |
| 1982 | 1st Quarter | 4.046 | 6.396 | 7.745 | 0.948 | 0.760 | 0.019 | 19.915 |
| | 2nd Quarter | 3.556 | 3.841 | 7.535 | 0.937 | 0.747 | 0.018 | 16.634 |
| | 3rd Quarter | 3.990 | 3.532 | 7.419 | 0.834 | 0.840 | 0.023 | 16.638 |
| | 4th Quarter | 3.730 | 4.738 | 7.532 | 0.842 | 0.785 | 0.027 | 17.653 |
| | Total | 15.322 | 18.507 | 30.232 | 3.561 | 3.131 | 0.086 | 70.840 |
| 1983 | 1st Quarter | 3.737 | 5.369 | 7.311 | 1.008 | 0.776 | 0.025 | 18.226 |
| | 2nd Quarter | 3.569 | 3.572 | 7.293 | 1.048 | 0.747 | 0.021 | 16.251 |
| | 3rd Quarter | 4.440 | 3.317 | 7.626 | 0.901 | 0.838 | 0.038 | 17.160 |
| | 4th Quarter | 4.152 | 5.093 | 7.824 | 0.914 | 0.842 | 0.034 | 18.859 |
| | Total | 15.898 | 17.352 | 30.054 | 3.871 | 3.203 | 0.118 | 70.495 |
| 1984 | 1st Quarter | 4.314 | R6.324 | 7.909 | 0.996 | 0.923 | 0.041 | R20.507 |
| | 2nd Quarter | 4.009 | R4.249 | 7.675 | 1.027 | 0.818 | 0.038 | R17.815 |
| | 3rd Quarter | 4.490 | R3.496 | 7.755 | 0.877 | 0.943 | 0.040 | R17.602 |
| | 4th Quarter | 4.260 | R4.438 | 7.712 | 0.816 | 0.870 | 0.044 | R18.140 |
| | Total | 17.074 | R18.507 | 31.051 | 3.717 | 3.553 | 0.163 | 74.064 |
| 1985 | 1st Quarter | R4.391 | R6.165 | 7.689 | 0.896 | 1.063 | 0.054 | R20.259 |
| | 2nd Quarter | R4.136 | R3.793 | 7.592 | 0.871 | 0.932 | 0.043 | R17.367 |
| | 3rd Quarter | R4.572 | R3.387 | 7.700 | 0.748 | 1.133 | 0.048 | R17.587 |
| | 4th Quarter | R4.383 | R4.508 | 7.942 | 0.806 | 1.032 | 0.055 | R18.725 |
| | Total | R17.482 | R17.853 | 30.922 | 3.321 | 4.160 | 0.199 | R73.938 |
| 1986 | 1st Quarter | R4.402 | R5.855 | 7.784 | 0.862 | 1.081 | 0.061 | R20.045 |
| | 2nd Quarter | R4.029 | R3.605 | 7.777 | 0.933 | 1.016 | 0.053 | R17.414 |
| | 3rd Quarter | 4.608 | 3.031 | 8.017 | 0.810 | 1.192 | 0.052 | 17.711 |

¹Includes supplemental gaseous fuels.

²Includes industrial and utility production and net imports of electricity.

³Other is net imports of coal coke and electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

⁴Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

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.

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

Energy Summary

Net Imports¹ of Energy by Source—Quarterly Summary

| | Coal | Crude Oil ² | Refined Petroleum Products ³ | Natural Gas | Electricity ⁴ | Coal Coke | Total |
|-------------------------------------|----------------|------------------------|---|---------------|--------------------------|----------------|---------------|
| Quadrillion (10 ¹⁵) 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) | 13.921 | 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 | | | | | | | |
| 1st Quarter | (0.277) | 3.311 | 1.051 | 0.307 | 0.052 | 0.009 | 4.453 |
| 2nd Quarter | (0.452) | 3.252 | 0.787 | 0.307 | 0.052 | 0.025 | 3.972 |
| 3rd Quarter | (0.455) | 3.417 | 0.826 | 0.295 | 0.053 | 0.024 | 4.159 |
| 4th Quarter | (0.517) | 3.348 | 0.939 | 0.333 | 0.053 | 0.005 | 4.160 |
| Total | (1.702) | 13.328 | 3.603 | 1.243 | 0.211 | 0.063 | 16.745 |
| 1980 | | | | | | | |
| 1st Quarter | (0.363) | 3.021 | 0.902 | 0.326 | 0.054 | 0.000 | 3.940 |
| 2nd Quarter | (0.652) | 2.696 | 0.625 | 0.203 | 0.054 | (0.014) | 2.913 |
| 3rd Quarter | (0.678) | 2.446 | 0.626 | 0.174 | 0.055 | (0.011) | 2.611 |
| 4th Quarter | (0.698) | 2.423 | 0.760 | 0.254 | 0.055 | (0.009) | 2.783 |
| Total | (2.391) | 10.586 | 2.912 | 0.957 | 0.217 | (0.035) | 12.247 |
| 1981 | | | | | | | |
| 1st Quarter | (0.578) | 2.368 | 0.729 | 0.244 | 0.086 | (0.004) | 2.846 |
| 2nd Quarter | (0.529) | 2.127 | 0.552 | 0.185 | 0.087 | (0.005) | 2.416 |
| 3rd Quarter | (0.883) | 2.239 | 0.628 | 0.184 | 0.088 | (0.001) | 2.254 |
| 4th Quarter | (0.929) | 2.119 | 0.613 | 0.242 | 0.088 | (0.006) | 2.128 |
| Total | (2.918) | 8.854 | 2.522 | 0.855 | 0.347 | (0.016) | 9.644 |
| 1982 | | | | | | | |
| 1st Quarter | (0.668) | 1.524 | 0.569 | 0.257 | 0.070 | (0.004) | 1.748 |
| 2nd Quarter | (0.826) | 1.672 | 0.466 | 0.190 | 0.053 | (0.007) | 1.549 |
| 3rd Quarter | (0.655) | 1.970 | 0.536 | 0.181 | 0.086 | (0.008) | 2.111 |
| 4th Quarter | (0.619) | 1.751 | 0.557 | 0.268 | 0.097 | (0.004) | 2.050 |
| Total | (2.768) | 6.917 | 2.128 | 0.896 | 0.306 | (0.022) | 7.457 |
| 1983 | | | | | | | |
| 1st Quarter | (0.392) | 1.224 | 0.373 | 0.285 | 0.086 | (0.003) | 1.572 |
| 2nd Quarter | (0.525) | 1.686 | 0.539 | 0.186 | 0.079 | (0.005) | 1.959 |
| 3rd Quarter | (0.572) | 2.110 | 0.743 | 0.170 | 0.103 | (0.003) | 2.551 |
| 4th Quarter | (0.524) | 1.711 | 0.696 | 0.243 | 0.101 | (0.004) | 2.223 |
| Total | (2.013) | 6.731 | 2.351 | 0.883 | 0.369 | (0.016) | 8.306 |
| 1984 | | | | | | | |
| 1st Quarter | (0.393) | 1.575 | 0.924 | 0.220 | 0.088 | 0.002 | 2.417 |
| 2nd Quarter | (0.620) | 1.820 | 0.712 | 0.184 | 0.092 | (0.003) | 2.185 |
| 3rd Quarter | (0.656) | 1.747 | 0.675 | 0.152 | 0.119 | (0.003) | 2.034 |
| 4th Quarter | (0.451) | 1.775 | 0.659 | 0.231 | 0.105 | (0.007) | 2.313 |
| Total | (2.119) | 6.918 | 2.970 | 0.787 | 0.405 | (0.011) | 8.949 |
| 1985 | | | | | | | |
| 1st Quarter | (0.480) | 1.243 | 0.590 | R0.277 | 0.091 | 0.002 | R1.723 |
| 2nd Quarter | (0.624) | 1.702 | 0.709 | R0.202 | 0.099 | (0.005) | R2.083 |
| 3rd Quarter | (0.664) | 1.590 | 0.589 | R0.167 | 0.127 | (0.006) | 1.804 |
| 4th Quarter | (0.621) | 1.846 | 0.683 | R0.244 | 0.101 | (0.005) | R2.248 |
| Total | (2.389) | 6.381 | 2.570 | R0.891 | 0.418 | (0.013) | R7.858 |
| 1986 | | | | | | | |
| 1st Quarter | (0.442) | 1.542 | 0.561 | R0.210 | 0.103 | (0.001) | R1.973 |
| 2nd Quarter | (0.621) | 2.119 | 0.661 | R0.124 | 0.096 | (0.003) | 2.376 |
| 3rd Quarter | (0.609) | 2.503 | 0.777 | 0.128 | 0.124 | (0.008) | 2.915 |

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 refined petroleum products, unfinished oils, natural gasoline, and plant condensate.

⁴Assumed to be hydroelectricity.

R=Revised data.

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

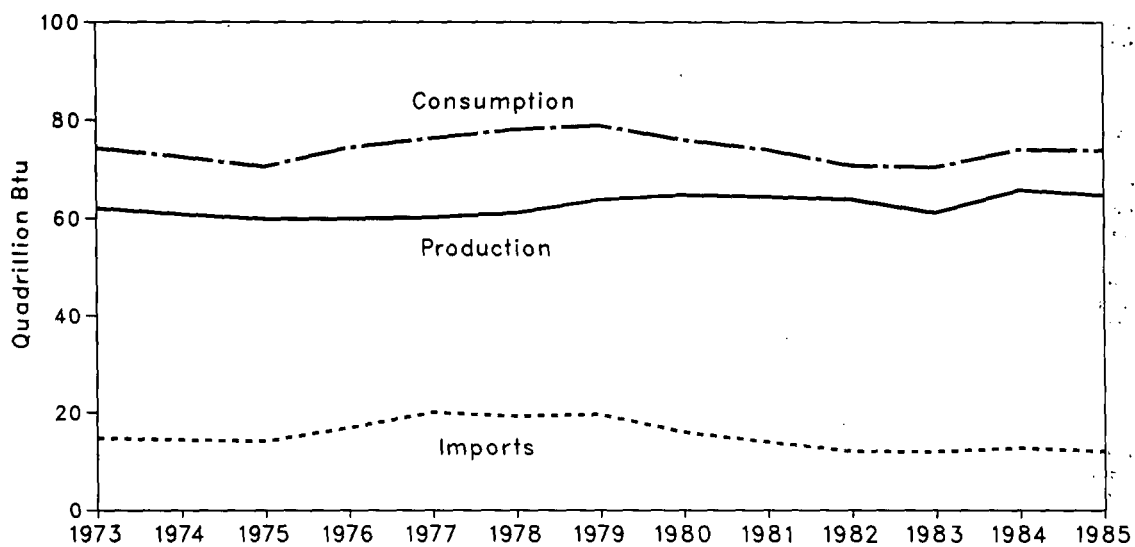
• Totals may not equal sum of components due to independent rounding.

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

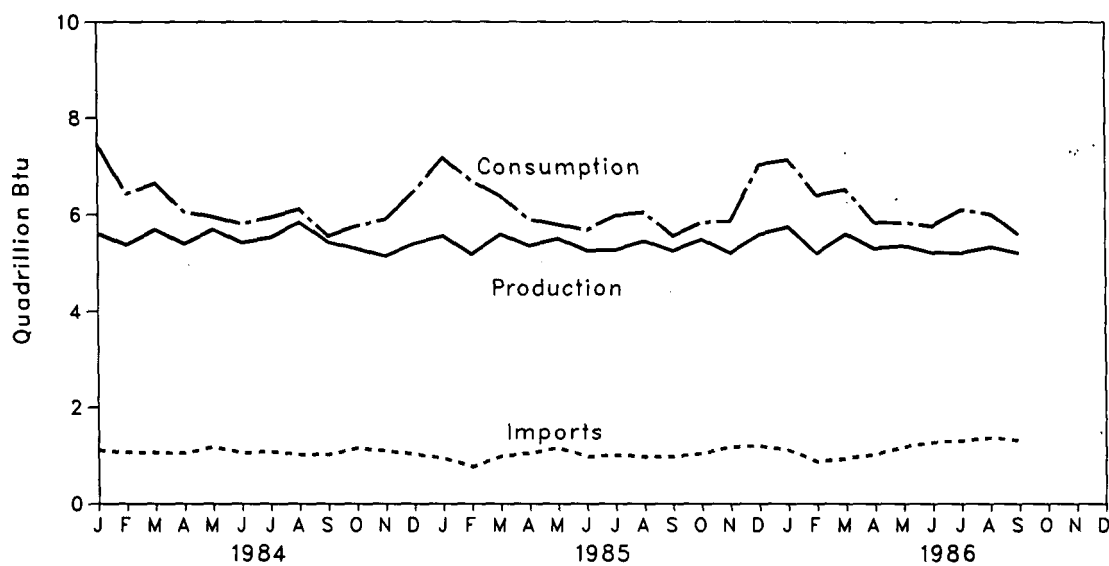
Energy Summary

Overview

Yearly



Monthly



Energy Summary

Overview¹

| | | Production ^{2,3} | Consumption ^{2,3} | Imports ² | Exports | Net Imports |
|-------------------------------------|---------------------|---------------------------|----------------------------|----------------------|--------------|---------------|
| Quadrillion (10 ¹⁵) Btu | | | | | | |
| 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 |
| 1976 | Total | 59.891 | 74.362 | 16.837 | 2.189 | 14.648 |
| 1977 | Total | 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 | Total | 61.194 | 70.495 | 12.024 | 3.719 | 8.306 |
| 1984 | January | 5.606 | 7.442 | 1.101 | 0.247 | 0.854 |
| | February | 5.376 | 6.428 | 1.052 | 0.221 | 0.831 |
| | March | 5.682 | 6.637 | 1.047 | 0.315 | 0.732 |
| | April | 5.397 | 6.055 | 1.034 | 0.327 | 0.708 |
| | May | 5.687 | 5.953 | 1.169 | 0.365 | 0.804 |
| | June | 5.423 | 5.807 | 1.040 | 0.367 | 0.673 |
| | July | 5.525 | R5.938 | 1.065 | 0.326 | 0.739 |
| | August | 5.835 | 6.111 | 1.004 | 0.359 | 0.645 |
| | September | 5.434 | 5.553 | 1.005 | 0.355 | 0.650 |
| | October | 5.298 | 5.761 | 1.143 | 0.295 | 0.848 |
| | November | 5.147 | 5.902 | 1.084 | 0.271 | 0.814 |
| | December | 5.405 | 6.478 | 1.012 | 0.360 | 0.652 |
| | Total | 65.814 | R74.064 | 12.757 | 3.808 | 8.949 |
| 1985 | January | 5.561 | R7.175 | 0.926 | 0.305 | 0.621 |
| | February | 5.189 | R6.696 | 0.756 | 0.306 | 0.450 |
| | March | 5.594 | R6.387 | 0.970 | 0.317 | 0.652 |
| | April | 5.358 | 5.899 | 1.034 | 0.332 | 0.702 |
| | May | 5.506 | 5.791 | 1.145 | 0.381 | 0.763 |
| | June | 5.266 | 5.677 | 0.960 | 0.342 | 0.618 |
| | July | 5.274 | R5.980 | 0.994 | 0.328 | 0.666 |
| | August | 5.458 | R6.046 | 0.958 | 0.420 | 0.538 |
| | September | 5.257 | R5.561 | 0.963 | 0.364 | 0.599 |
| | October | 5.490 | 5.833 | 1.029 | 0.365 | 0.664 |
| | November | 5.214 | R5.862 | 1.170 | 0.406 | 0.764 |
| | December | 5.590 | R7.029 | 1.188 | 0.368 | 0.820 |
| | Total | 64.756 | R73.938 | 12.092 | 4.234 | 7.858 |
| 1986 | January | 5.743 | 7.133 | 1.096 | 0.318 | 0.778 |
| | February | 5.203 | 6.395 | 0.858 | 0.284 | 0.573 |
| | March | 5.600 | 6.518 | 0.923 | 0.301 | 0.622 |
| | April | 5.302 | 5.831 | 1.005 | 0.374 | 0.631 |
| | May | 5.357 | 5.825 | 1.163 | 0.367 | 0.796 |
| | June | 5.220 | 5.758 | 1.260 | 0.312 | 0.948 |
| | July | 5.211 | 6.098 | 1.297 | 0.328 | 0.969 |
| | August | R5.336 | R6.016 | 1.359 | 0.371 | 0.988 |
| | September | 5.214 | 5.597 | 1.304 | 0.346 | 0.958 |
| | Year to Date | 48.186 | 55.170 | 10.266 | 3.001 | 7.264 |

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.

³Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

R=Revised data.

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

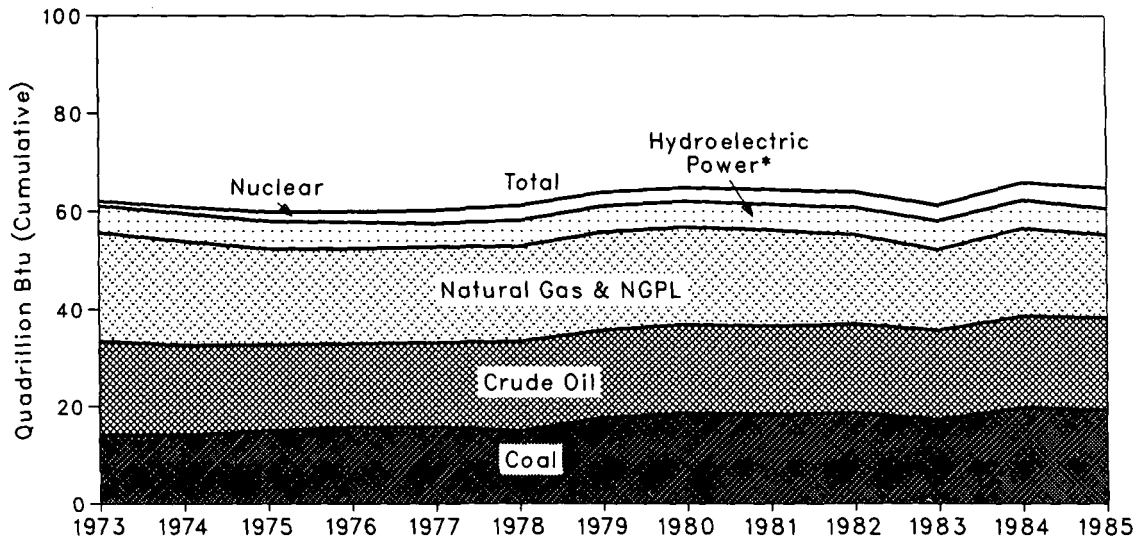
• Totals may not equal sum of components due to independent rounding.

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

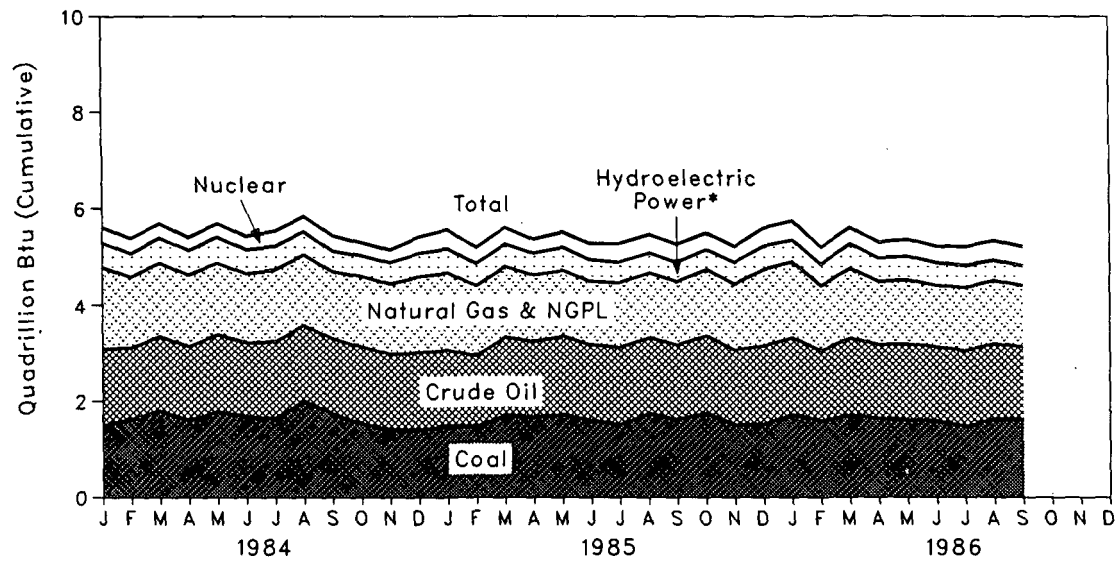
Energy Summary

Production of Energy by Source

Yearly



Monthly



*Includes other.

Energy Summary

Production of Energy by Source

| | | Coal | Crude Oil ¹ | NGPL ² | Natural Gas (Dry) | Hydro-electric Power ³ | Nuclear Electric Power | Other ⁴ | Total ⁵ | Year to Date |
|-------------------------------------|---------------------|---------------|------------------------|-------------------|-------------------|-----------------------------------|------------------------|--------------------|--------------------|--------------|
| Quadrillion (10 ¹⁵) 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 | |
| 1981 | Total | 18.377 | 18.146 | 2.307 | 19.699 | 2.758 | 3.008 | 0.127 | 64.422 | |
| 1982 | Total | 18.639 | 18.309 | 2.191 | 18.255 | 3.256 | 3.131 | 0.108 | 63.890 | |
| 1983 | 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 | 0.307 | 0.318 | 0.011 | 5.606 | 5.606 |
| | February | 1.622 | 1.493 | 0.181 | 1.472 | 0.287 | 0.308 | 0.013 | 5.376 | 10.982 |
| | March | 1.795 | 1.559 | 0.189 | 1.515 | 0.314 | 0.296 | 0.015 | 5.682 | 16.664 |
| | April | 1.601 | 1.542 | 0.185 | 1.483 | 0.309 | 0.263 | 0.014 | 5.397 | 22.061 |
| | May | 1.785 | 1.610 | 0.191 | 1.478 | 0.328 | 0.280 | 0.014 | 5.687 | 27.748 |
| | June | 1.682 | 1.540 | 0.184 | 1.432 | 0.297 | 0.274 | 0.013 | 5.423 | 33.172 |
| | July | 1.646 | 1.598 | 0.193 | 1.485 | 0.284 | 0.307 | 0.013 | 5.525 | 38.696 |
| | August | 1.999 | 1.584 | 0.193 | 1.463 | 0.259 | 0.320 | 0.016 | 5.835 | 44.531 |
| | September | 1.739 | 1.565 | 0.190 | 1.394 | 0.216 | 0.316 | 0.015 | 5.434 | 49.965 |
| | October | 1.536 | 1.601 | 0.195 | 1.465 | 0.215 | 0.269 | 0.016 | 5.298 | 55.263 |
| | November | 1.417 | 1.562 | 0.192 | 1.463 | 0.230 | 0.266 | 0.016 | 5.147 | 60.409 |
| | December | 1.405 | 1.600 | 0.195 | 1.587 | 0.266 | 0.335 | 0.018 | 5.405 | 65.814 |
| | Total | 19.723 | 18.848 | 2.274 | 17.931 | 3.312 | 3.553 | 0.174 | 65.814 | |
| 1985 | January | 1.493 | 1.571 | 0.192 | 1.610 | 0.284 | 0.392 | 0.018 | 5.561 | 5.561 |
| | February | 1.471 | 1.466 | 0.173 | 1.463 | 0.267 | 0.334 | 0.016 | 5.189 | 10.750 |
| | March | 1.701 | 1.635 | 0.189 | 1.460 | 0.254 | 0.337 | 0.018 | 5.594 | 16.344 |
| | April | 1.674 | 1.574 | 0.181 | 1.375 | 0.252 | 0.287 | 0.016 | 5.358 | 21.702 |
| | May | 1.715 | 1.642 | 0.188 | 1.360 | 0.273 | 0.311 | 0.016 | 5.506 | 27.207 |
| | June | 1.602 | 1.570 | 0.182 | 1.315 | 0.247 | 0.334 | 0.016 | 5.266 | 32.473 |
| | July | 1.514 | 1.609 | 0.185 | 1.346 | 0.220 | 0.382 | 0.018 | 5.274 | 37.747 |
| | August | 1.742 | 1.583 | 0.188 | 1.343 | 0.206 | 0.377 | 0.018 | 5.458 | 43.205 |
| | September | 1.618 | 1.558 | 0.180 | 1.316 | 0.194 | 0.374 | 0.018 | 5.257 | 48.462 |
| | October | 1.753 | 1.613 | 0.190 | 1.372 | 0.207 | 0.338 | 0.017 | 5.490 | 53.952 |
| | November | 1.515 | 1.549 | 0.190 | 1.376 | 0.237 | 0.327 | 0.021 | 5.214 | 59.166 |
| | December | 1.531 | 1.624 | 0.198 | 1.588 | 0.261 | 0.366 | 0.022 | 5.590 | 64.756 |
| | Total | 19.329 | 18.992 | 2.235 | 16.924 | 2.903 | 4.160 | 0.213 | 64.756 | |
| 1986 | January | 1.718 | 1.608 | 0.203 | 1.573 | 0.226 | 0.393 | 0.023 | 5.743 | 5.743 |
| | February | 1.595 | 1.452 | 0.182 | 1.359 | 0.241 | 0.355 | 0.019 | 5.203 | 10.947 |
| | March | 1.702 | 1.607 | 0.191 | 1.453 | 0.292 | 0.334 | 0.020 | 5.600 | 16.546 |
| | April | 1.645 | 1.534 | 0.178 | 1.312 | 0.284 | 0.330 | 0.018 | 5.302 | 21.848 |
| | May | 1.606 | 1.583 | 0.188 | 1.334 | 0.282 | 0.346 | 0.018 | 5.357 | 27.205 |
| | June | 1.596 | 1.530 | 0.177 | 1.286 | 0.271 | 0.340 | 0.020 | 5.220 | 32.425 |
| | July | 1.471 | 1.571 | 0.184 | 1.326 | 0.249 | 0.389 | 0.021 | 5.211 | 37.636 |
| | August | 1.629 | 1.566 | 0.178 | 1.317 | 0.219 | R0.406 | 0.021 | R5.336 | R42.972 |
| | September | 1.617 | 1.509 | 0.169 | 1.287 | 0.218 | 0.397 | 0.018 | 5.214 | 48.186 |
| | Year to Date | 14.579 | 13.959 | 1.650 | 12.248 | 2.281 | 3.290 | 0.179 | 48.186 | |

¹Includes lease condensate.

²Natural gas plant liquids.

³Includes industrial and utility production of hydroelectric power.

⁴Other is electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

⁵Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

R = Revised data.

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

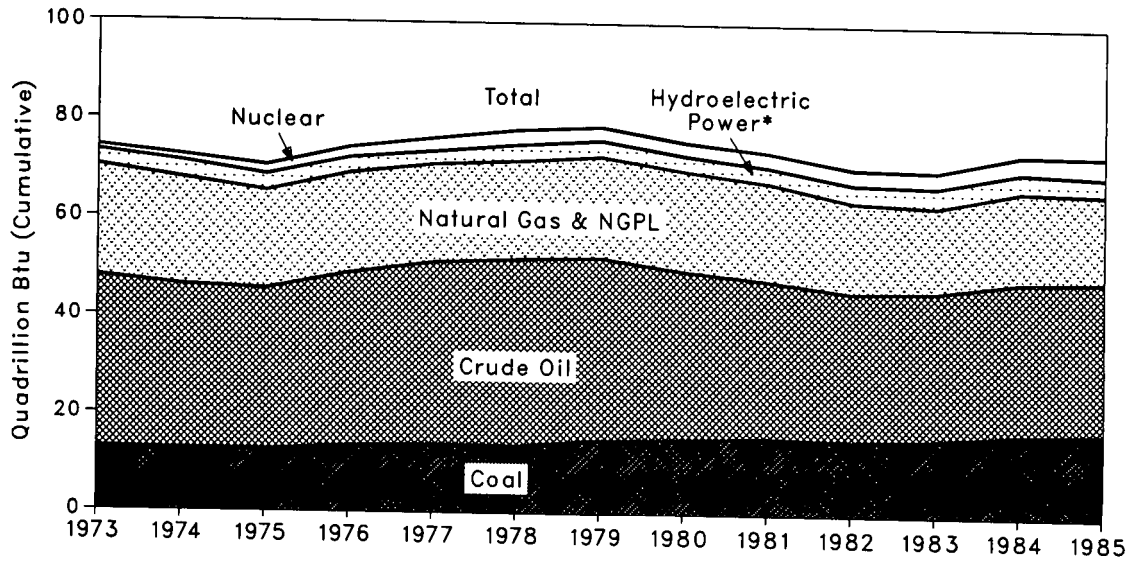
• Totals may not equal sum of components due to independent rounding.

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

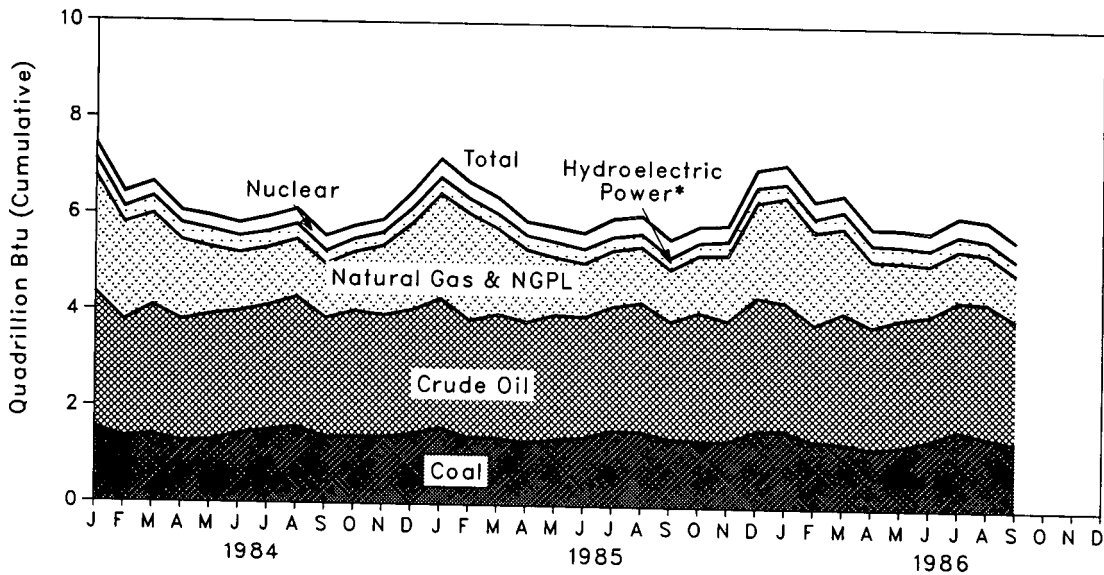
Energy Summary

Consumption of Energy by Source

Yearly



Monthly



*Includes other.

Energy Summary

Consumption of Energy by Source

| | | Coal | Natural Gas ¹ | Petroleum | Hydro-electric Power ² | Nuclear Electric Power | Other ³ | Total ⁴ | Year to Date |
|-------------------------------------|---------------------|---------------|--------------------------|---------------|-----------------------------------|------------------------|--------------------|--------------------|--------------|
| Quadrillion (10 ¹⁵) 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 | 15.423 | 20.391 | 34.202 | 3.118 | 2.739 | 0.079 | 75.952 | |
| 1981 | Total | 15.908 | 19.926 | 31.931 | 3.105 | 3.008 | 0.111 | 73.989 | |
| 1982 | Total | 15.322 | 18.507 | 30.232 | 3.561 | 3.131 | 0.086 | 70.840 | |
| 1983 | Total | 15.898 | 17.352 | 30.054 | 3.871 | 3.203 | 0.118 | 70.495 | |
| 1984 | January | 1.552 | 2.413 | 2.810 | 0.338 | 0.318 | 0.012 | 7.442 | 7.442 |
| | February | 1.359 | 2.015 | 2.415 | 0.315 | 0.308 | 0.015 | 6.428 | 13.870 |
| | March | 1.403 | 1.897 | 2.684 | 0.342 | 0.296 | 0.014 | 6.637 | 20.507 |
| | April | 1.272 | 1.648 | 2.520 | 0.339 | 0.263 | 0.014 | 6.055 | 26.562 |
| | May | 1.298 | 1.389 | 2.612 | 0.360 | 0.280 | 0.013 | 5.953 | 32.515 |
| | June | 1.439 | 1.212 | 2.542 | 0.328 | 0.274 | 0.011 | 5.807 | 38.322 |
| | July | 1.519 | R1.188 | 2.592 | 0.321 | 0.307 | 0.012 | R5.938 | R44.260 |
| | August | 1.587 | 1.190 | 2.695 | 0.304 | 0.320 | 0.014 | 6.111 | R50.371 |
| | September | 1.384 | 1.119 | 2.468 | 0.253 | 0.316 | 0.014 | 5.553 | R55.924 |
| | October | 1.395 | 1.217 | 2.612 | 0.256 | 0.269 | 0.013 | 5.761 | R61.685 |
| | November | 1.394 | 1.436 | 2.529 | 0.262 | 0.266 | 0.014 | 5.902 | R67.586 |
| | December | 1.470 | 1.786 | 2.571 | 0.298 | 0.335 | 0.017 | 6.478 | R74.064 |
| | Total | 17.074 | R18.507 | 31.051 | 3.717 | 3.553 | 0.163 | R74.064 | |
| 1985 | January | 1.591 | R2.170 | 2.690 | 0.314 | 0.392 | 0.018 | R7.175 | R7.175 |
| | February | 1.403 | R2.219 | 2.432 | 0.291 | 0.334 | 0.017 | R6.696 | R13.872 |
| | March | 1.398 | R1.776 | 2.567 | 0.292 | 0.337 | 0.018 | R6.387 | R20.259 |
| | April | 1.320 | 1.495 | 2.500 | 0.281 | 0.287 | 0.016 | 5.899 | R26.158 |
| | May | 1.385 | 1.186 | 2.589 | 0.307 | 0.311 | 0.013 | 5.791 | R31.949 |
| | June | 1.431 | 1.113 | 2.502 | 0.283 | 0.334 | 0.014 | 5.677 | R37.626 |
| | July | 1.585 | R1.157 | 2.577 | 0.264 | 0.382 | 0.016 | R5.980 | R43.606 |
| | August | 1.562 | R1.155 | 2.682 | 0.253 | 0.377 | 0.017 | R6.046 | R49.652 |
| | September | 1.425 | R1.075 | 2.440 | 0.231 | 0.374 | 0.015 | R5.561 | R55.213 |
| | October | 1.390 | 1.186 | 2.663 | 0.241 | 0.338 | 0.016 | 5.833 | R61.047 |
| | November | 1.386 | R1.356 | 2.505 | 0.270 | 0.327 | 0.018 | R5.862 | R66.909 |
| | December | 1.607 | R1.966 | 2.774 | 0.295 | 0.366 | 0.021 | R7.029 | R73.938 |
| | Total | 17.482 | R17.853 | 30.922 | 3.321 | 4.160 | 0.199 | R73.938 | |
| 1986 | January | 1.619 | 2.180 | 2.659 | 0.260 | 0.393 | 0.023 | 7.133 | 7.133 |
| | February | 1.406 | 1.918 | 2.422 | 0.275 | 0.355 | 0.019 | 6.395 | 13.528 |
| | March | 1.377 | 1.757 | 2.703 | 0.328 | 0.334 | 0.019 | 6.518 | 20.045 |
| | April | 1.258 | 1.363 | 2.544 | 0.318 | 0.330 | 0.018 | 5.831 | 25.876 |
| | May | 1.315 | 1.187 | 2.647 | 0.314 | 0.346 | 0.016 | 5.825 | 31.701 |
| | June | 1.456 | 1.056 | 2.585 | 0.301 | 0.340 | 0.020 | 5.758 | 37.459 |
| | July | 1.665 | 1.054 | 2.685 | 0.286 | 0.389 | 0.019 | 6.098 | 43.557 |
| | August | 1.530 | 1.013 | 2.787 | 0.264 | R0.406 | 0.016 | R6.016 | R49.573 |
| | September | 1.413 | 0.964 | 2.546 | 0.260 | 0.397 | 0.017 | 5.597 | 55.170 |
| | Year to Date | 13.040 | 12.491 | 23.578 | 2.605 | 3.290 | 0.167 | 55.170 | |

¹Includes supplemental gaseous fuels.

²Includes industrial and utility production and net imports of electricity.

³Other is net imports of coal coke and electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

⁴Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except small amounts used by electric utilities to generate electricity for distribution.

R=Revised data.

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

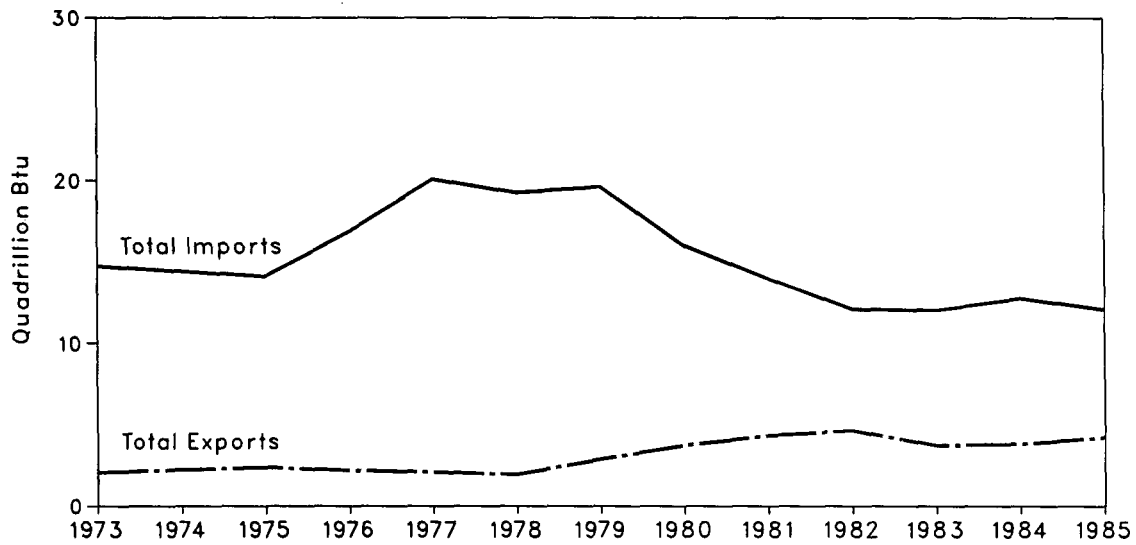
• Totals may not equal sum of components due to independent rounding.

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

Energy Summary

Energy Imports and Exports

Yearly



Monthly



Energy Summary

Net Imports¹ of Energy by Source

| | | Coal | Crude Oil ² | Petroleum Products ³ | Natural Gas | Electricity ⁴ | Coal Coke | Total | Year to Date |
|-------------|---------------------|-------------------------------------|------------------------|---------------------------------|--------------|--------------------------|----------------|--------------|--------------|
| | | Quadrillion (10 ¹⁵) 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) | 13.921 | 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 | 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 | 0.831 | 1.685 |
| | March | (0.152) | 0.584 | 0.209 | 0.063 | 0.029 | (0.001) | 0.732 | 2.417 |
| | April | (0.199) | 0.567 | 0.244 | 0.066 | 0.030 | 0.000 | 0.708 | 3.124 |
| | May | (0.215) | 0.672 | 0.255 | 0.061 | 0.032 | (0.001) | 0.804 | 3.929 |
| | June | (0.205) | 0.581 | 0.213 | 0.056 | 0.031 | (0.002) | 0.673 | 4.602 |
| | July | (0.215) | 0.639 | 0.228 | 0.050 | 0.037 | (0.001) | 0.739 | 5.341 |
| | August | (0.214) | 0.552 | 0.214 | 0.049 | 0.045 | (0.002) | 0.645 | 5.986 |
| | September | (0.228) | 0.556 | 0.233 | 0.052 | 0.037 | 0.000 | 0.650 | 6.636 |
| | October | (0.173) | 0.652 | 0.269 | 0.062 | 0.040 | (0.003) | 0.848 | 7.483 |
| | November | (0.109) | 0.591 | 0.223 | 0.079 | 0.033 | (0.003) | 0.814 | 8.297 |
| | December | (0.169) | 0.533 | 0.167 | 0.089 | 0.032 | (0.001) | 0.652 | 8.949 |
| | Total | (2.119) | 6.918 | 2.970 | 0.787 | 0.405 | (0.011) | 8.949 | |
| 1985 | January | (0.150) | 0.465 | 0.177 | 0.099 | 0.029 | 0.000 | 0.621 | 0.621 |
| | February | (0.156) | 0.308 | 0.178 | 0.094 | 0.024 | 0.001 | 0.450 | 1.071 |
| | March | (0.174) | 0.470 | 0.235 | 0.084 | 0.037 | 0.000 | 0.652 | 1.723 |
| | April | (0.181) | 0.554 | 0.228 | 0.071 | 0.029 | 0.001 | 0.702 | 2.425 |
| | May | (0.239) | 0.629 | 0.271 | 0.071 | 0.033 | (0.003) | 0.763 | 3.189 |
| | June | (0.205) | 0.519 | 0.210 | 0.060 | 0.036 | (0.002) | 0.618 | 3.806 |
| | July | (0.188) | 0.551 | 0.208 | 0.053 | 0.043 | (0.002) | 0.666 | 4.472 |
| | August | (0.268) | 0.520 | 0.185 | 0.056 | 0.046 | (0.001) | 0.538 | 5.011 |
| | September | (0.208) | 0.519 | 0.196 | 0.058 | 0.038 | (0.003) | 0.599 | 5.610 |
| | October | (0.227) | 0.563 | 0.223 | 0.071 | 0.035 | (0.001) | 0.664 | 6.274 |
| | November | (0.211) | 0.650 | 0.223 | 0.072 | 0.033 | (0.003) | 0.764 | 7.038 |
| | December | (0.183) | 0.633 | 0.237 | 0.101 | 0.033 | (0.001) | 0.820 | 7.858 |
| | Total | (2.389) | 6.381 | 2.570 | 0.891 | 0.418 | (0.013) | 7.858 | |
| 1986 | January | (0.152) | 0.573 | 0.230 | 0.093 | E0.034 | 0.000 | 0.778 | 0.778 |
| | February | (0.131) | 0.464 | 0.138 | 0.068 | E0.034 | 0.000 | 0.573 | 1.351 |
| | March | (0.159) | 0.504 | 0.193 | 0.049 | E0.035 | (0.001) | 0.622 | 1.973 |
| | April | (0.213) | 0.633 | 0.140 | 0.039 | E0.033 | 0.000 | 0.631 | 2.605 |
| | May | (0.221) | 0.711 | 0.232 | 0.044 | E0.033 | (0.003) | 0.796 | 3.401 |
| | June | (0.188) | 0.776 | 0.289 | 0.041 | E0.030 | 0.000 | 0.948 | 4.349 |
| | July | (0.200) | 0.829 | 0.266 | 0.040 | E0.037 | (0.002) | 0.969 | 5.318 |
| | August | (0.199) | 0.831 | 0.274 | 0.042 | E0.045 | (0.006) | 0.988 | 6.306 |
| | September | (0.211) | 0.844 | 0.237 | 0.046 | E0.042 | 0.000 | 0.958 | 7.264 |
| | Year to Date | (1.673) | 6.164 | 1.998 | 0.463 | E0.324 | (0.012) | 7.264 | |

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.

⁴Assumed to be hydroelectricity.

E= Estimated value.

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

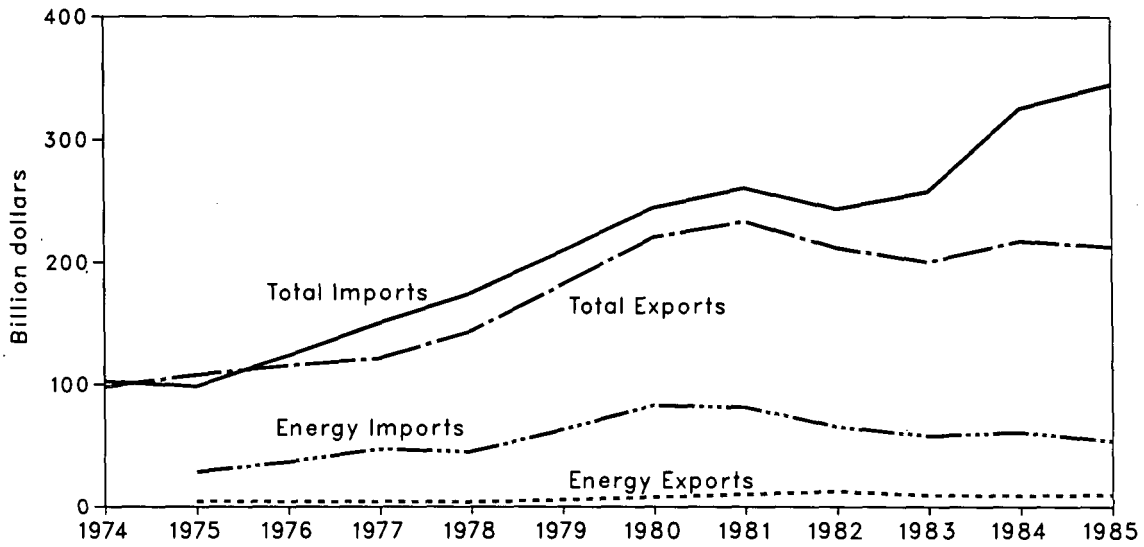
• Totals may not equal sum of components due to independent rounding.

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

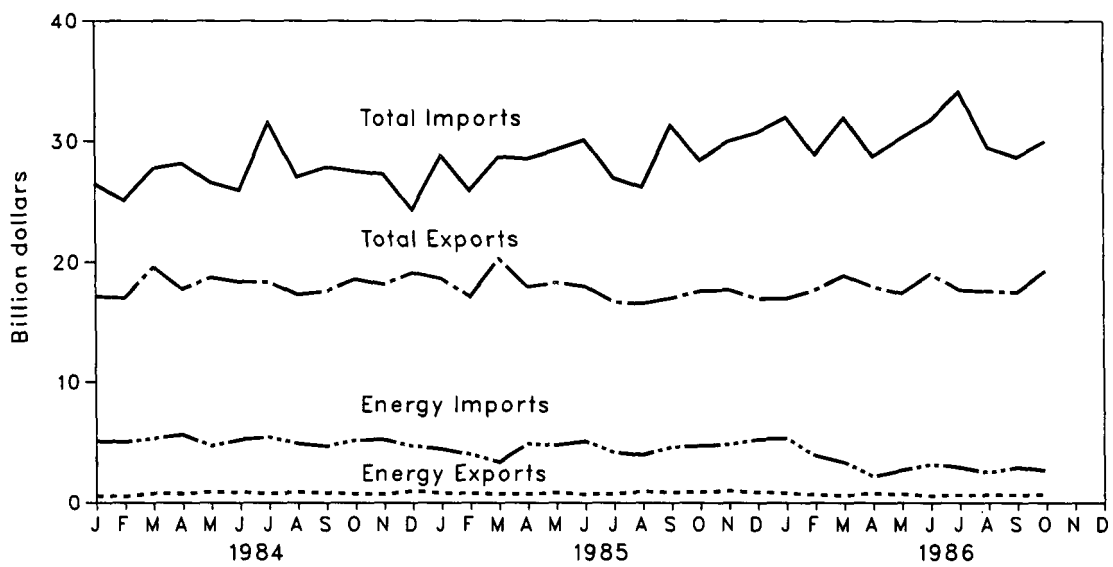
Energy Summary

Merchandise Trade Value

Yearly



Monthly



Energy Summary

Merchandise Trade Value

| | Exports | | | Imports | | | Trade Balance | | | |
|-----------------|---------------------|--------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|-----------------|
| | Energy | All Other | Total | Energy | All Other | Total | Energy | All Other | Total | |
| Million dollars | | | | | | | | | | |
| 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 | 178,543 | 243,952 | -52,680 | 20,921 | -31,759 |
| 1983 | Total | 9,500 | 190,986 | 200,486 | 57,952 | 200,096 | 258,048 | -48,452 | -9,110 | -57,562 |
| 1984 | January | 582 | 16,584 | 17,166 | 5,089 | 21,408 | 26,497 | -4,507 | -4,824 | -9,331 |
| | February | 502 | 16,513 | 17,015 | 5,006 | 20,112 | 25,118 | -4,504 | -3,599 | -8,103 |
| | March | 790 | 18,818 | 19,608 | 5,323 | 22,408 | 27,731 | -4,533 | -3,590 | -8,123 |
| | April | 759 | 17,024 | 17,783 | 5,629 | 22,531 | 28,160 | -4,870 | -5,507 | -10,377 |
| | May | 901 | 17,837 | 18,738 | 4,696 | 21,911 | 26,607 | -3,795 | -4,075 | -7,870 |
| | June | 872 | 17,509 | 18,381 | 5,206 | 20,758 | 25,964 | -4,334 | -3,249 | -7,583 |
| | July | 765 | 17,598 | 18,363 | 5,434 | 26,131 | 31,565 | -4,669 | -8,533 | -13,202 |
| | August | 878 | 16,434 | 17,312 | 4,886 | 22,157 | 27,043 | -4,008 | -5,723 | -9,731 |
| | September | 820 | 16,781 | 17,601 | 4,663 | 23,190 | 27,853 | -3,843 | -6,409 | -10,252 |
| | October | 757 | 17,855 | 18,612 | 5,168 | 22,362 | 27,530 | -4,411 | -4,508 | -8,919 |
| | November | 712 | 17,463 | 18,175 | 5,207 | 22,089 | 27,296 | -4,495 | -4,626 | -9,121 |
| | December | 973 | 18,163 | 19,136 | 4,672 | 19,691 | 24,363 | -3,699 | -1,528 | -5,227 |
| | Total | 9,311 | 208,577 | 217,888 | 60,980 | 264,746 | 325,726 | -51,669 | -56,169 | -107,838 |
| 1985 | January | 804 | 17,869 | 18,673 | 4,434 | 24,402 | 28,836 | -3,630 | -6,533 | -10,163 |
| | February | 786 | 16,357 | 17,143 | 3,989 | 21,952 | 25,941 | -3,203 | -5,595 | -8,798 |
| | March | 754 | 19,576 | 20,330 | 3,351 | 25,374 | 28,725 | -2,597 | -5,798 | -8,395 |
| | April | 738 | 17,235 | 17,973 | 4,876 | 23,696 | 28,572 | -4,138 | -6,461 | -10,599 |
| | May | 837 | 17,500 | 18,337 | 4,748 | 24,554 | 29,302 | -3,911 | -7,054 | -10,965 |
| | June | 708 | 17,304 | 18,012 | 5,088 | 25,048 | 30,136 | -4,380 | -7,744 | -12,124 |
| | July | 760 | 15,967 | 16,727 | 4,146 | 22,854 | 27,000 | -3,386 | -6,888 | -10,274 |
| | August | 934 | 15,650 | 16,584 | 3,937 | 22,310 | 26,247 | -3,003 | -6,660 | -9,663 |
| | September | 868 | 16,166 | 17,034 | 4,597 | 26,752 | 31,349 | -3,729 | -10,586 | -14,315 |
| | October | 903 | 16,715 | 17,618 | 4,699 | 23,730 | 28,429 | -3,796 | -7,015 | -10,811 |
| | November | 991 | 16,730 | 17,721 | 4,824 | 25,186 | 30,010 | -3,833 | -8,457 | -12,290 |
| | December | 888 | 16,106 | 16,994 | 5,228 | 25,500 | 30,728 | -4,340 | -9,394 | -13,734 |
| | Total | 9,971 | 203,175 | 213,146 | 53,917 | 291,359 | 345,276 | -43,946 | -88,183 | -132,129 |
| 1986 | January | 812 | 16,194 | 17,006 | 5,344 | 26,661 | 32,005 | -4,532 | -10,467 | -14,999 |
| | February | 676 | 17,059 | 17,735 | 3,874 | 25,041 | 28,895 | -3,198 | -7,963 | -11,161 |
| | March | 622 | 18,291 | 18,913 | 3,331 | 28,641 | 31,972 | -2,709 | -10,350 | -13,059 |
| | April | 791 | 17,174 | 17,965 | 2,176 | 26,586 | 28,762 | -1,385 | -9,412 | -10,797 |
| | May | 728 | 16,703 | 17,431 | 2,700 | 27,572 | 30,272 | -1,972 | -10,870 | -12,842 |
| | June | 584 | 18,486 | 19,070 | 3,185 | 28,579 | 31,764 | -2,601 | -10,093 | -12,694 |
| | July | 653 | 17,054 | 17,707 | 2,933 | 31,188 | 34,121 | -2,280 | -14,134 | -16,414 |
| | August | 661 | 16,943 | 17,604 | 2,511 | 26,965 | 29,476 | -1,850 | -10,021 | -11,871 |
| | September | 657 | 16,861 | 17,518 | 2,933 | 25,762 | 28,695 | -2,276 | -8,901 | -11,177 |
| | October | 670 | 18,660 | 19,330 | 2,662 | 27,356 | 30,018 | -1,992 | -8,696 | -10,688 |
| | Year to Date | 6,854 | 173,424 | 180,278 | 31,649 | 274,330 | 305,979 | -24,795 | -100,906 | -125,701 |

NA=Not available.

Notes: • In accordance with current Bureau of the Census procedures, monthly data are not adjusted for seasonal variations.

• 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.

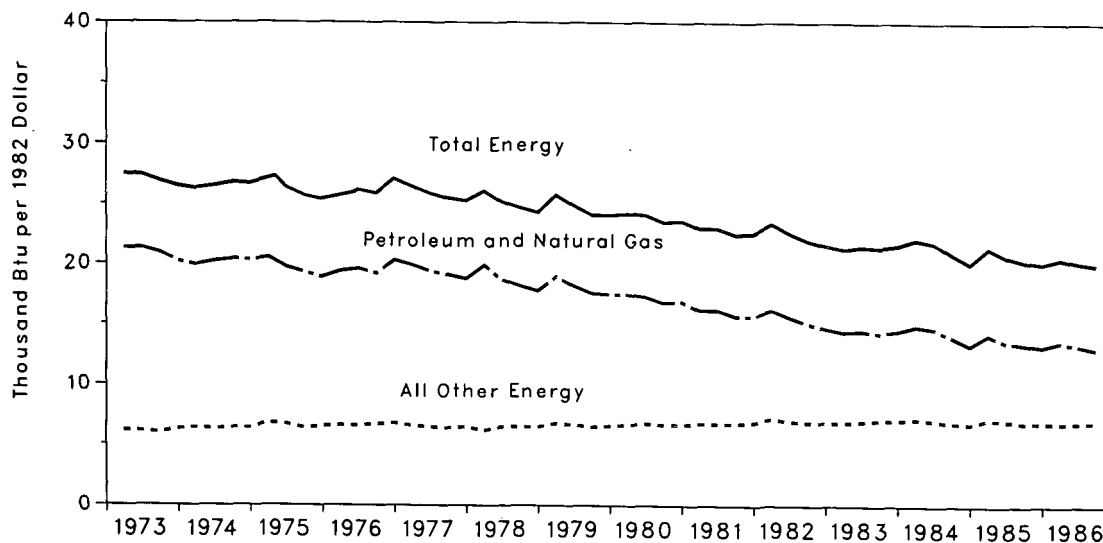
Additional Notes and Sources: • See the last page of this section.

Energy Summary

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

| | | Annual Rate of Energy Consumption ¹ Quadrillion Btu | Gross National Product (GNP) Trillion 1982 dollars | Energy Consumption per Dollar of GNP (Seasonally Adjusted) | | |
|------|--------------------------|---|---|--|---------------------------|------------------|
| | | | | Total Energy | Petroleum and Natural Gas | All Other Energy |
| | | | | Thousand Btu per 1982 dollar | | |
| 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 | Year | 70.495 | 3.279 | 21.5 | 14.5 | 7.0 |
| 1984 | 1st Quarter ² | 76.003 | 3.445 | 22.1 | 14.9 | 7.2 |
| | 2nd Quarter ² | 76.124 | 3.487 | 21.8 | 14.7 | 7.1 |
| | 3rd Quarter ² | R73.299 | 3.507 | 20.9 | 14.0 | 6.9 |
| | 4th Quarter ² | 70.909 | 3.520 | 20.1 | 13.3 | 6.8 |
| | Year | R74.064 | 3.490 | 21.2 | 14.2 | 7.0 |
| 1985 | 1st Quarter ² | R75.831 | 3.547 | 21.4 | 14.2 | 7.2 |
| | 2nd Quarter ² | 73.919 | 3.568 | 20.7 | 13.6 | 7.1 |
| | 3rd Quarter ² | R73.139 | 3.604 | 20.3 | 13.4 | 6.9 |
| | 4th Quarter ² | R72.897 | 3.622 | 20.1 | 13.2 | 6.9 |
| | Year | R73.938 | 3.585 | 20.6 | 13.6 | 7.0 |
| 1986 | 1st Quarter ² | 75.052 | 3.656 | 20.5 | 13.6 | 6.9 |
| | 2nd Quarter ² | 74.039 | 3.661 | 20.2 | 13.3 | 6.9 |
| | 3rd Quarter ² | 73.698 | 3.687 | 20.0 | 13.0 | 7.0 |

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



¹Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

²Quarterly data are seasonally adjusted and shown at annual rates.

R= Revised data.

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.

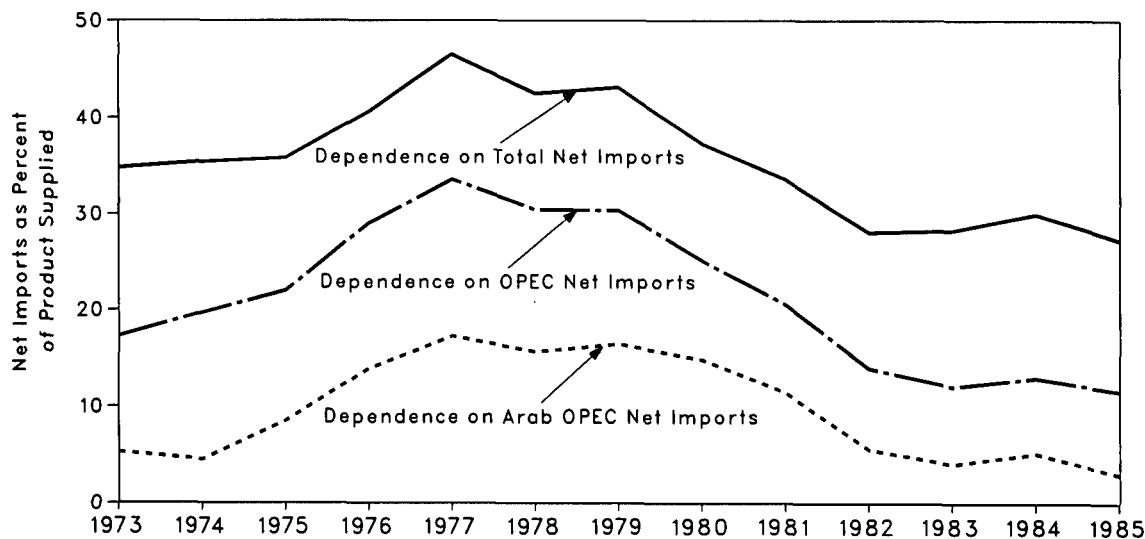
Sources: • See the last page of this section.

Energy Summary

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 ³ 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 |
| Annual Rate | | Thousand barrels 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 | 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 | 331 | 1,371 | 3,570 | 15,859 | 2.1 | 8.6 | 22.5 |
| | 2nd Quarter | 529 | 1,857 | 4,625 | 15,486 | 3.4 | 12.0 | 29.9 |
| | 3rd Quarter | 288 | 1,780 | 4,135 | 15,536 | 1.9 | 11.5 | 26.6 |
| | 4th Quarter | 730 | 2,266 | 4,803 | 16,025 | 4.6 | 14.1 | 30.0 |
| | Average | 470 | 1,821 | 4,286 | 15,726 | 3.0 | 11.6 | 27.3 |
| 1986 | 1st Quarter | 843 | 2,038 | 4,083 | 16,055 | 5.3 | 12.7 | 25.4 |
| | 2nd Quarter | 1,138 | 2,714 | 5,321 | 15,864 | 7.2 | 17.1 | 33.5 |
| | 3rd Quarter | 1,323 | 3,267 | 6,206 | 16,177 | 8.2 | 20.2 | 38.4 |

U.S. Dependence on Petroleum Net Imports



¹Beginning in October 1977, Strategic Petroleum Reserves are included.

²Net 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.

³Includes 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.

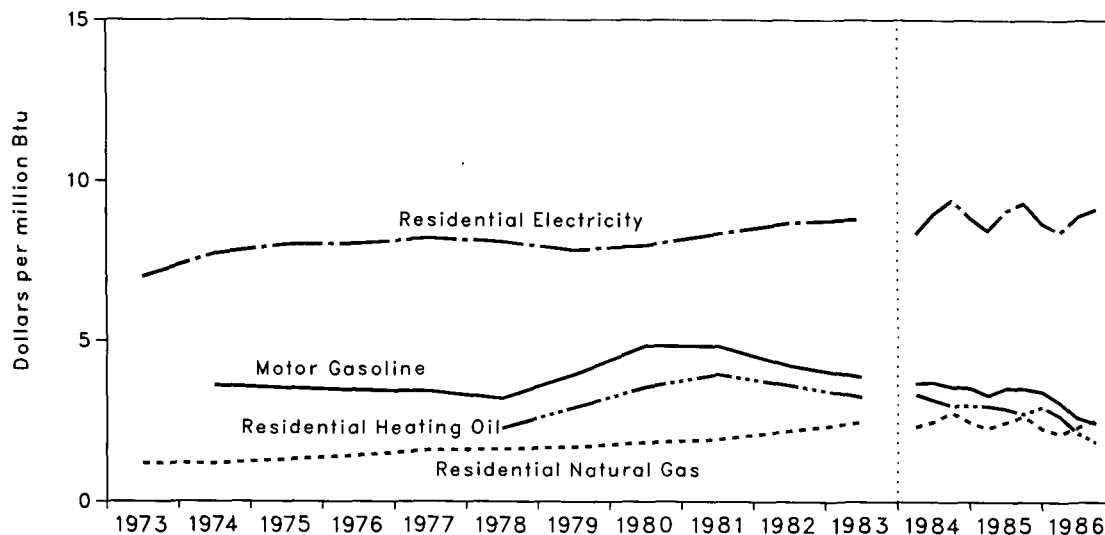
Sources: • See the last page of this section.

Energy Summary

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

| | | Leaded Regular Motor Gasoline | | Residential Heating Oil | | Residential Natural Gas | | Residential Electricity | |
|------|-------------|-------------------------------|----------|-------------------------|----------|-------------------------|----------|-------------------------|----------|
| | | 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 | 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 | 239.2 | 2.32 | 2.85 | 8.35 |
| | 2nd Quarter | 46.5 | 3.72 | 43.9 | 3.17 | 256.1 | 2.49 | 3.07 | 9.00 |
| | 3rd Quarter | 44.9 | 3.59 | 41.6 | 3.00 | 286.9 | 2.79 | 3.21 | 9.41 |
| | 4th Quarter | 44.5 | 3.56 | 41.7 | 3.01 | 253.9 | 2.47 | 3.03 | 8.88 |
| | 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 | R40.3 | R2.91 | R255.5 | 2.48 | 3.10 | 9.09 |
| | 3rd Quarter | 44.2 | 3.53 | 38.1 | 2.75 | 275.3 | 2.67 | 3.18 | 9.32 |
| | 4th Quarter | 43.0 | 3.44 | 41.2 | 2.97 | 234.5 | 2.28 | 2.97 | 8.70 |
| | Average | 43.4 | 3.47 | 41.0 | 2.96 | 238.0 | 2.31 | 3.03 | 8.88 |
| 1986 | 1st Quarter | 38.7 | 3.09 | 37.1 | 2.67 | 217.1 | 2.11 | 2.87 | 8.41 |
| | 2nd Quarter | 32.7 | 2.61 | 29.6 | 2.13 | 239.1 | 2.32 | 3.04 | 8.91 |
| | 3rd Quarter | 30.4 | 2.43 | 25.6 | 1.85 | 261.3 | 2.54 | 3.12 | 9.14 |

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.

R=Revised data. NA=Not available.

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

• Annual averages may not equal average of quarters due to independent rounding.

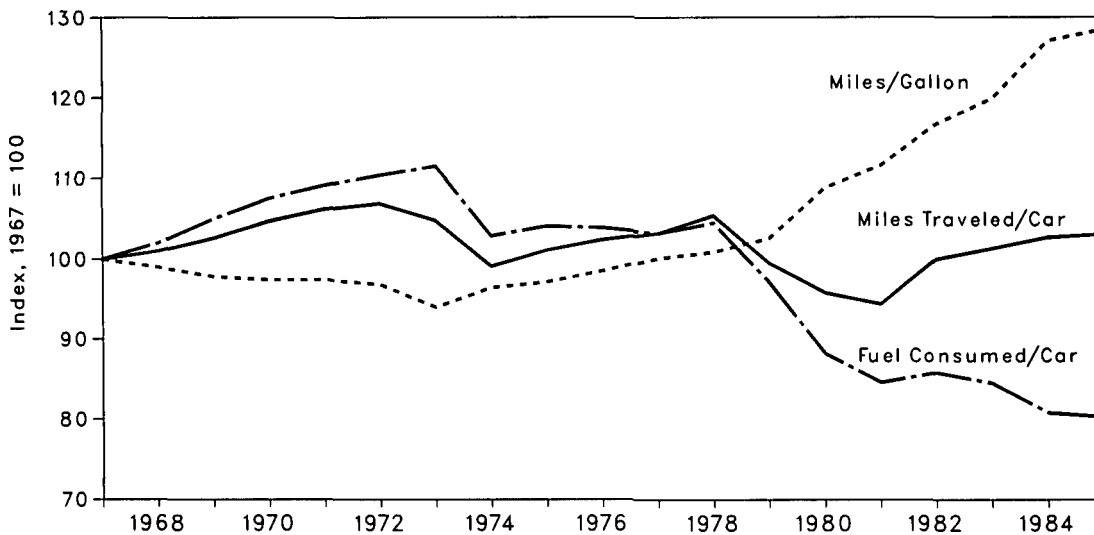
Sources: • See the last page of this section.

Energy Summary

Energy Indicator—U.S. Passenger Car Efficiency

| | Average Fuel Consumed per Car | | Average Miles Traveled 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 | 578 | 84.5 | 9,654 | 101.3 | 16.70 | 119.9 |
| 1984 | 553 | 80.8 | 9,787 | 102.7 | 17.70 | 127.1 |
| 1985† | 549 | 80.3 | 9,827 | 103.1 | 17.90 | 128.5 |

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.

Energy Summary

Population-Weighted Heating Degree-Days¹

| Census Divisions | November 1 Through November 30 | | | | | Cumulative July 1 Through November 30 | | | | |
|--|--------------------------------|------------|------------|----------------|--------------|---------------------------------------|------------|------------|----------------|--------------|
| | Normal ² | 1985 | 1986 | Percent Change | | Normal ² | 1985 | 1986 | Percent Change | |
| | | | | Normal to 1986 | 1985 to 1986 | | | | Normal to 1986 | 1985 to 1986 |
| New England CT, ME, MA, NH, RI, VT | 705 | 679 | 783 | 11.1 | 15.3 | 1,320 | 1,256 | 1,500 | 13.6 | 19.4 |
| Middle Atlantic NJ, NY, PA | 654 | 557 | 714 | 9.2 | 28.2 | 1,124 | 953 | 1,186 | 5.5 | 24.4 |
| Eastern North Central IL, IN, MI, OH, WI | 744 | 707 | 828 | 11.3 | 17.1 | 1,235 | 1,226 | 1,346 | 9.0 | 9.8 |
| Western North Central IA, KS, MN, MO, NE, ND, SD | 805 | 997 | 930 | 15.5 | -6.7 | 1,334 | 1,662 | 1,512 | 13.3 | -9.0 |
| South Atlantic DE, FL, GA, MD and DC, NC, SC, VA, WV | 366 | 201 | 309 | -15.6 | 53.7 | 552 | 340 | 478 | -13.4 | 40.6 |
| Eastern South Central AL, KY, MS, TN | 453 | 253 | 381 | -15.9 | 50.6 | 684 | 383 | 558 | -18.4 | 45.7 |
| Western South Central AR, LA, OK, TX | 296 | 226 | 315 | 6.4 | 39.4 | 387 | 314 | 403 | 4.1 | 28.3 |
| Mountain AZ, CO, ID, MT, NV, NM, UT, WY | 700 | 841 | 679 | -3.0 | -19.3 | 1,250 | 1,503 | 1,327 | 6.2 | -11.7 |
| Pacific Coast CA, OR, WA | 387 | 500 | 328 | -15.2 | -34.4 | 632 | 795 | 620 | -1.9 | -22.0 |
| U.S. Average³ | 553 | 519 | 571 | 3.3 | 10.0 | 911 | 875 | 949 | 4.2 | 8.5 |

¹See Note 6 on the last page of this section for explanation of degree-days.

²Normal is based on calculations of data from 1951 through 1980.

³Excludes Alaska and Hawaii.

Source: • See Note 6 on the last page of this section.

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, and electricity generated from nuclear power. Production also includes electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy but excludes other energy obtained from those sources because consistent historical data are not available. The volumetric data are converted to approximate heat contents (Btu values) of those 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 (assumed to be hydroelectricity), net imports of coal coke, and electricity generated from nuclear power. Consumption also includes electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy but excludes other energy obtained from those sources because consistent historical data are not available. 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 (assumed to be hydroelectricity), 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 those 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. Statistics include nonmonetary gold and 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 and a negative balance indicates a deficit 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, MD. 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 those 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, Bureau of Economic Analysis, *Survey of Current Business*.

U.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 Annual*; 1985: EIA, *Petroleum Supply Monthly*.

Cost of Fuels to End Users in Constant (1972) Dollars:

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

U.S. Passenger Car Efficiency: • Indices prepared from statistics published by the U.S. Department of Transportation, Federal Highway Administration, Federal Highway Statistics Division, "Highway Statistics," Table VM-1.

Consumption

Total U.S. energy consumption in September 1986 was 5.6 quadrillion Btu, 0.7 percent above the September 1985 level. Petroleum products accounted for 45.5 percent of the energy consumed in September 1986, while coal accounted for 25.2 percent, and natural gas accounted for 17.2 percent. The transportation sector used 63.7 percent of the petroleum products consumed in September 1986 and the industrial sector used 25.3 percent. Of natural gas consumed, the industrial sector used 45.4 percent; electric utilities, 26.6 percent; and the residential and commercial sector, 24.2 percent. Most of the coal used (83.9 percent) was consumed by electric utilities. The residential and commercial sector accounted for 65.7 percent of total electricity sales, while the industrial sector accounted for 34.2 percent.

Residential and commercial sector consumption was 1.9 quadrillion Btu in September 1986, up 1.7 percent from the September 1985 level. That sector consumed 33.6 percent of the September 1986 total, up from its 33.2-percent share in September 1985.

Industrial sector consumption was 2.1 quadrillion Btu in September 1986, down 2.6 percent from the September 1985 level. The industrial sector accounted for 36.8 percent of the September 1986 total consumption, down from the industrial sector's 38.0-percent share of September 1985 total consumption.

Transportation sector consumption of energy was 1.7 quadrillion Btu in September 1986, up 3.6 percent from the September 1985 level. That sector consumed 29.7 percent of the September 1986 total, up from the sector's 28.8-percent share in September 1985.

Electric utility consumption of energy was an estimated 2.2 quadrillion Btu in September 1986, 2.3 percent higher than in September 1985. Coal contributed 53.2 percent of the energy consumed by electric utilities in September 1986, while nuclear electric power contributed 17.8 percent; hydroelectric power, 11.6 percent; natural gas, 11.5 percent; petroleum products, 5.2 percent; and wood, waste, geothermal, wind, photovoltaic, and solar thermal energy, 0.8 percent.

Consumption Summary for September 1986

(Quadrillion (10¹⁵) Btu)

| Energy Source | Sector | | | | Total |
|---|----------------------------|--------------|----------------|--------------------|--------------|
| | Residential and Commercial | Industrial | Transportation | Electric Utilities | |
| Coal | 0.015 | 0.211 | 0.000 | 1.185 | 1.413 |
| Natural Gas ¹ | 0.233 | 0.438 | 0.037 | 0.256 | 0.964 |
| Petroleum Products | 0.168 | 0.643 | 1.621 | 0.115 | 2.546 |
| Hydroelectric Power | 0.000 | 0.002 | 0.000 | 0.258 | 0.260 |
| Nuclear Electric Power | 0.000 | 0.000 | 0.000 | 0.397 | 0.397 |
| Net Imports of Coal Coke | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Other ² | 0.000 | 0.000 | 0.000 | 0.018 | 0.018 |
| Primary Consumption | 0.416 | 1.294 | 1.658 | 2.228 | 5.597 |
| Electricity | 0.455 | 0.237 | 0.001 | (0.693) | |
| Net Energy Consumption | 0.871 | 1.531 | 1.659 | | 4.062 |
| Electrical System Energy Losses | 1.007 | 0.526 | 0.002 | (1.535) | 1.535 |
| Total Energy Consumption³ | 1.878 | 2.057 | 1.661 | | 5.597 |

¹Includes supplemental gaseous fuels. Transportation sector is pipeline fuel only.

²Other is electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

³Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

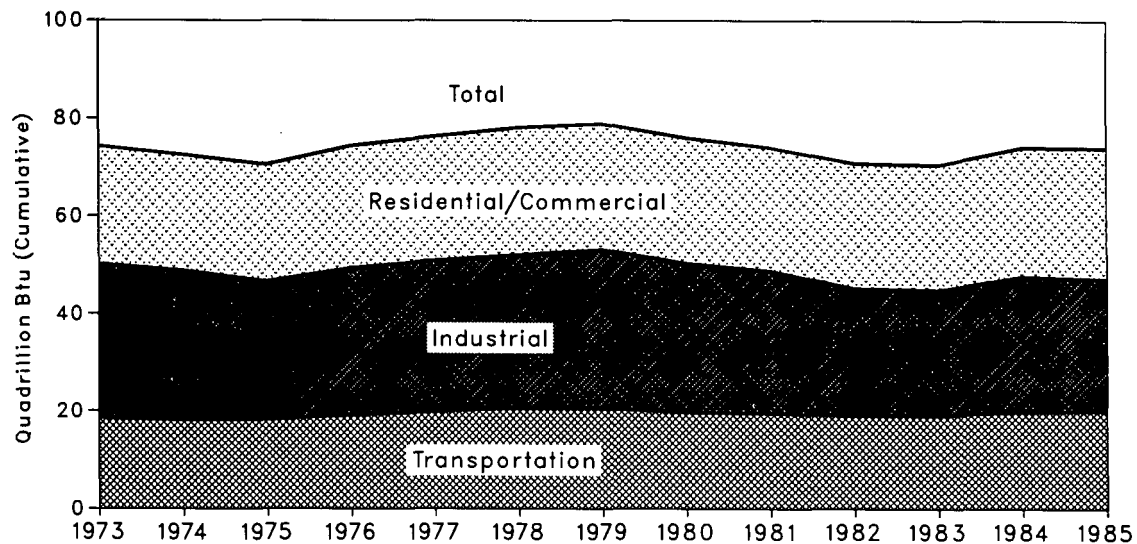
Notes: • Totals may not equal sum of components due to independent rounding and the use of sector-specific conversion factors.

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

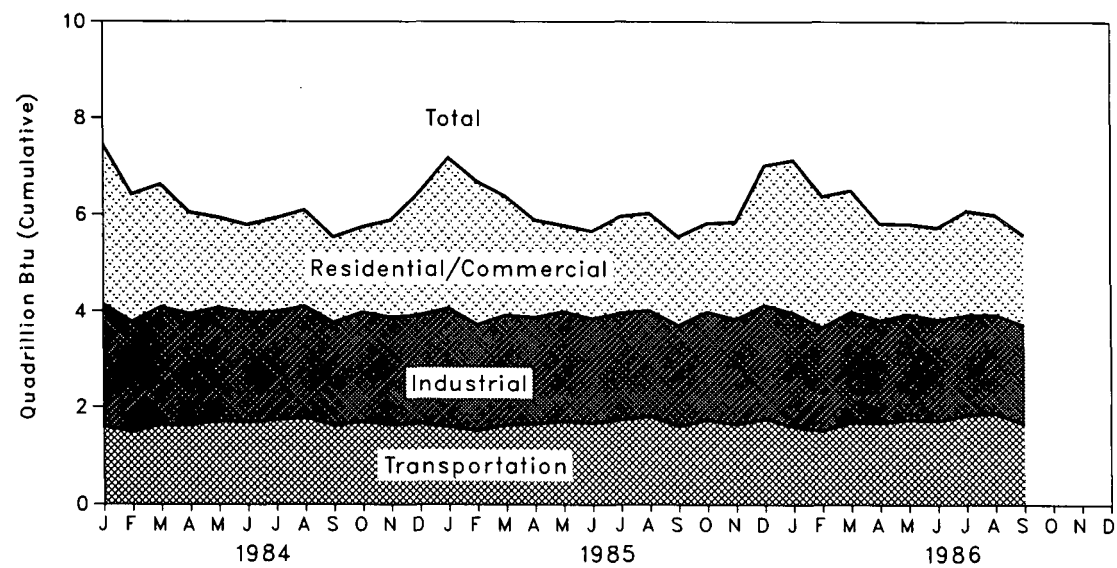
Consumption

Consumption of Energy by End-Use Sector

Yearly



Monthly



Consumption

Consumption of Energy by End-Use Sector

| | | Residential and Commercial | Industrial | Transportation | Total |
|-------------------------------------|---------------------|----------------------------------|----------------|----------------|----------------|
| Quadrillion (10 ¹⁵) 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 | Total | 25.615 | 25.746 | 19.132 | 70.495 |
| 1984 | January | 3.298 | 2.545 | 1.598 | 7.442 |
| | February | 2.650 | 2.304 | 1.475 | 6.428 |
| | March | 2.555 | 2.448 | 1.635 | 6.637 |
| | April | 2.112 | 2.326 | 1.623 | 6.055 |
| | May | 1.879 | 2.365 | 1.714 | 5.953 |
| | June | 1.829 | 2.280 | 1.697 | 5.807 |
| | July | 1.948 | R2.259 | 1.728 | R5.938 |
| | August | 2.005 | 2.315 | 1.786 | 6.111 |
| | September | 1.784 | 2.148 | 1.621 | 5.553 |
| | October | 1.777 | 2.282 | 1.700 | 5.761 |
| | November | 2.023 | 2.238 | 1.640 | 5.902 |
| | December | 2.551 | 2.263 | 1.663 | 6.478 |
| | Total | 26.410 | R27.774 | 19.878 | R74.064 |
| 1985 | January | R3.109 | 2.470 | 1.594 | R7.175 |
| | February | R2.970 | 2.216 | 1.509 | R6.696 |
| | March | R2.464 | 2.291 | 1.634 | R6.387 |
| | April | 2.025 | 2.226 | 1.653 | 5.899 |
| | May | 1.799 | 2.279 | 1.716 | 5.791 |
| | June | 1.821 | 2.182 | 1.673 | 5.677 |
| | July | 2.004 | R2.226 | 1.748 | R5.980 |
| | August | R2.023 | R2.206 | 1.816 | R6.046 |
| | September | R1.847 | 2.111 | 1.604 | R5.561 |
| | October | 1.841 | 2.250 | 1.743 | 5.833 |
| | November | R2.022 | 2.193 | 1.648 | R5.862 |
| | December | R2.894 | 2.363 | 1.769 | R7.029 |
| | Total | 26.819 | R27.012 | 20.108 | R73.938 |
| 1986 | January | 3.157 | 2.371 | 1.603 | 7.133 |
| | February | 2.720 | 2.162 | 1.513 | 6.395 |
| | March | 2.526 | 2.295 | 1.698 | 6.518 |
| | April | 2.013 | 2.139 | 1.684 | 5.831 |
| | May | 1.881 | 2.205 | 1.742 | 5.825 |
| | June | 1.916 | 2.111 | 1.729 | 5.758 |
| | July | 2.165 | 2.081 | 1.848 | 6.098 |
| | August | R2.076 | R2.061 | 1.876 | R6.016 |
| | September | 1.878 | 2.057 | 1.661 | 5.597 |
| | Year to Date | 20.332 | 19.483 | 15.353 | 55.170 |

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 and the use of preliminary conversion factors after 1981.

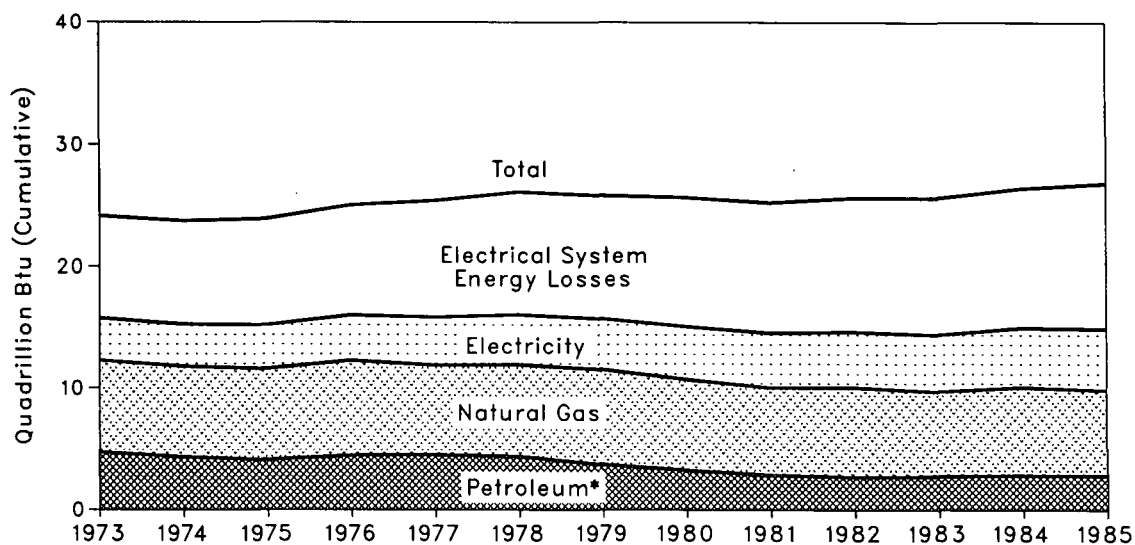
• Data exclude wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

Additional Notes and Sources: • See the last four pages of this section.

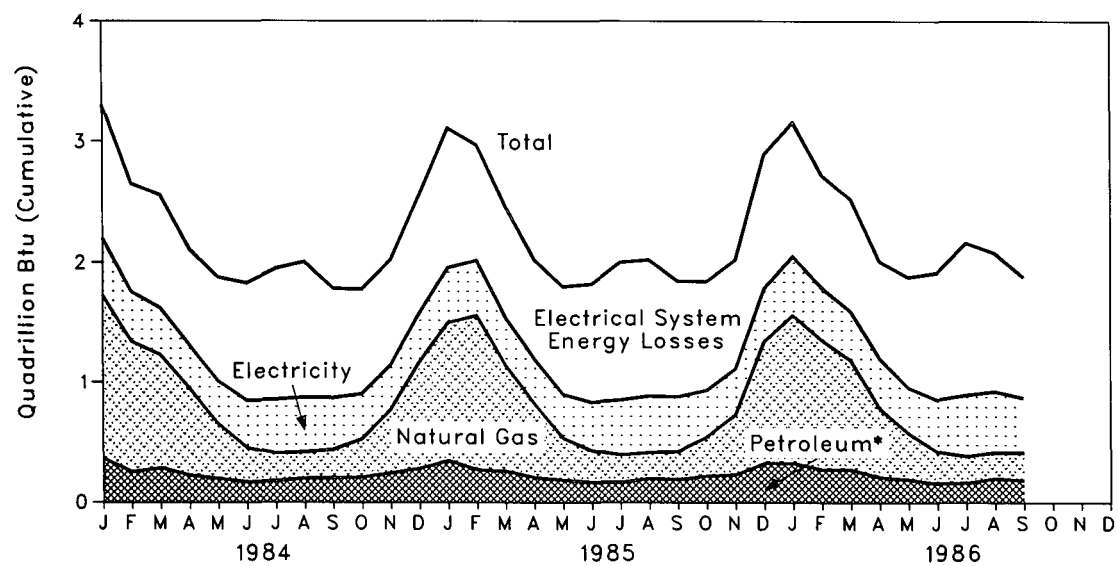
Consumption

Consumption of Energy by the Residential and Commercial Sector

Yearly



Monthly



*Includes coal.

Consumption

Consumption of Energy by the Residential and Commercial Sector

| | | Coal | Natural Gas ¹ | Petroleum | Electricity ² | Electrical System Energy Losses | Total ³ | Year to Date |
|-------------------------------------|---------------------|--------------|--------------------------|--------------|--------------------------|---------------------------------|--------------------|--------------|
| Quadrillion (10 ¹⁵) 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 | 3.035 | 4.355 | 10.580 | 25.655 | |
| 1981 | Total | 0.168 | 7.242 | 2.634 | 4.497 | 10.700 | 25.241 | |
| 1982 | Total | 0.188 | 7.433 | 2.449 | 4.566 | 10.993 | 25.630 | |
| 1983 | Total | 0.196 | 7.025 | 2.499 | 4.680 | 11.214 | 25.615 | |
| 1984 | January | 0.024 | 1.363 | 0.339 | 0.476 | 1.096 | 3.298 | 3.298 |
| | February | 0.021 | 1.086 | 0.230 | 0.418 | 0.895 | 2.650 | 5.947 |
| | March | 0.015 | 0.943 | 0.270 | 0.394 | 0.932 | 2.555 | 8.502 |
| | April | 0.022 | 0.727 | 0.201 | 0.360 | 0.802 | 2.112 | 10.614 |
| | May | 0.013 | 0.460 | 0.182 | 0.355 | 0.869 | 1.879 | 12.493 |
| | June | 0.010 | 0.286 | 0.158 | 0.395 | 0.979 | 1.829 | 14.322 |
| | July | 0.016 | 0.232 | 0.161 | 0.449 | 1.091 | 1.948 | 16.270 |
| | August | 0.015 | 0.222 | 0.181 | 0.456 | 1.131 | 2.005 | 18.275 |
| | September | 0.020 | 0.235 | 0.183 | 0.433 | 0.913 | 1.784 | 20.060 |
| | October | 0.016 | 0.319 | 0.190 | 0.377 | 0.874 | 1.777 | 21.836 |
| | November | 0.017 | 0.531 | 0.225 | 0.372 | 0.877 | 2.023 | 23.859 |
| | December | 0.022 | 0.886 | 0.261 | 0.410 | 0.973 | 2.551 | 26.410 |
| | Total | 0.212 | 7.291 | 2.582 | 4.894 | 11.431 | 26.410 | |
| 1985 | January | 0.019 | R1.151 | 0.329 | 0.457 | 1.153 | R3.109 | R3.109 |
| | February | 0.017 | R1.289 | 0.254 | 0.458 | 0.952 | R2.970 | R6.079 |
| | March | 0.012 | R0.883 | 0.248 | 0.400 | 0.921 | R2.464 | R8.543 |
| | April | 0.018 | 0.622 | 0.187 | 0.371 | 0.828 | 2.025 | R10.568 |
| | May | 0.011 | 0.351 | 0.173 | 0.366 | 0.899 | 1.799 | R12.367 |
| | June | 0.008 | 0.265 | 0.158 | 0.405 | 0.984 | 1.821 | R14.188 |
| | July | 0.012 | 0.233 | 0.153 | 0.457 | 1.149 | 2.004 | R16.192 |
| | August | 0.011 | R0.219 | 0.186 | 0.470 | 1.137 | R2.023 | R18.215 |
| | September | 0.015 | R0.234 | 0.174 | 0.457 | 0.966 | R1.847 | R20.061 |
| | October | 0.017 | 0.325 | 0.202 | 0.389 | 0.909 | 1.841 | R21.902 |
| | November | 0.017 | R0.502 | 0.215 | 0.381 | 0.908 | R2.022 | R23.924 |
| | December | 0.022 | R1.011 | 0.307 | 0.445 | 1.109 | R2.894 | 26.819 |
| | Total | 0.179 | 7.086 | 2.584 | 5.055 | 11.914 | 26.819 | |
| 1986 | January | 0.021 | 1.238 | 0.306 | 0.489 | 1.103 | 3.157 | 3.157 |
| | February | 0.018 | 1.079 | 0.257 | 0.436 | 0.930 | 2.720 | 5.877 |
| | March | 0.013 | 0.914 | 0.260 | 0.411 | 0.927 | 2.526 | 8.403 |
| | April | 0.019 | 0.580 | 0.191 | 0.413 | 0.810 | 2.013 | 10.416 |
| | May | 0.011 | 0.388 | 0.180 | 0.379 | 0.923 | 1.881 | 12.297 |
| | June | 0.009 | 0.265 | 0.148 | 0.435 | 1.060 | 1.916 | 14.213 |
| | July | 0.012 | 0.225 | 0.151 | 0.508 | 1.269 | 2.165 | 16.378 |
| | August | 0.011 | 0.218 | 0.189 | 0.506 | R1.153 | R2.076 | R18.454 |
| | September | 0.015 | 0.233 | 0.168 | 0.455 | 1.007 | 1.878 | 20.332 |
| | Year to Date | 0.129 | 5.141 | 1.849 | 4.031 | 9.182 | 20.332 | |

¹Includes supplemental gaseous fuels.

²Includes electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

³Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

R = Revised data.

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

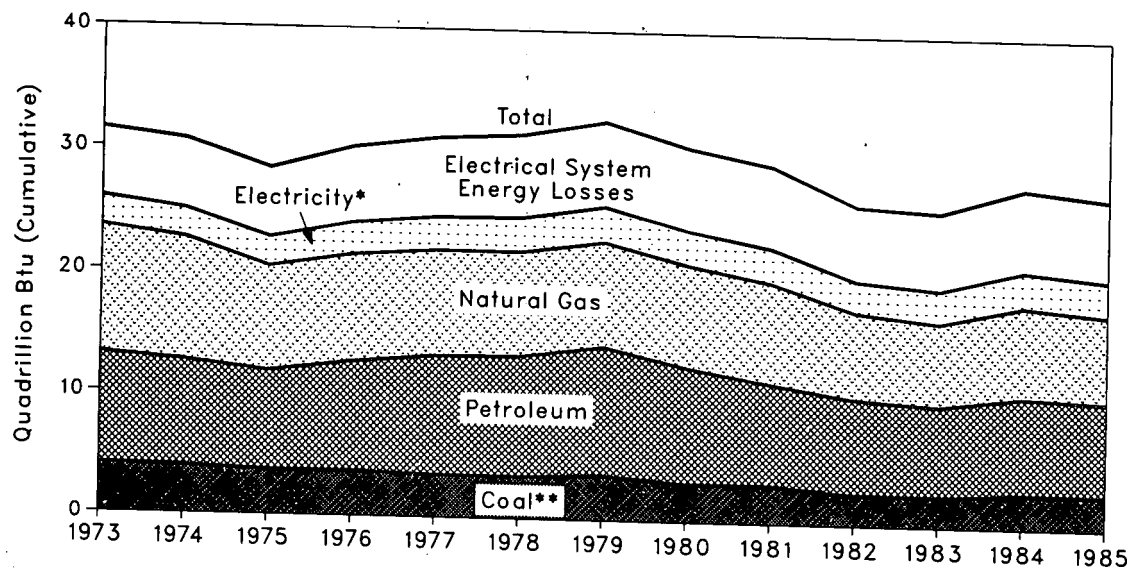
• Totals may not equal sum of components due to independent rounding.

Additional Notes and Sources: • See the last four pages of this section.

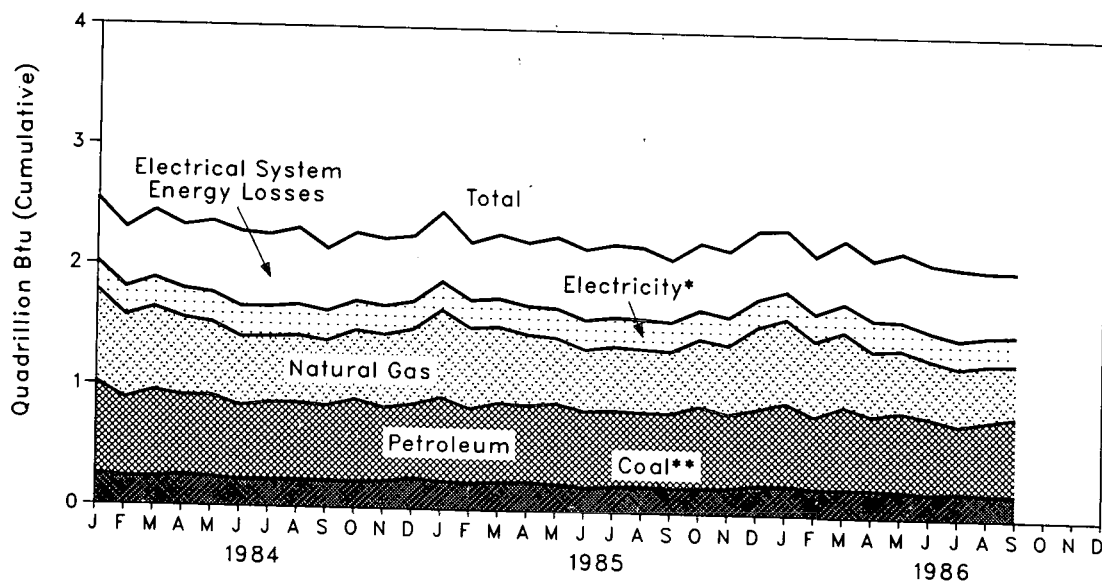
Consumption

Consumption of Energy by the Industrial Sector

Yearly



Monthly



*Includes hydroelectric power.
 **Includes net imports of coal coke.

Consumption

Consumption of Energy by the Industrial Sector

| | | Coal | Natural Gas ¹ | Petro-leum | Hydro-electric Power | Net Imports of Coal Coke | Electricity ² | Electrical System Energy Losses | Total ³ | Year to Date |
|-------------|---------------------|-------------------------------------|--------------------------|---------------|----------------------|--------------------------|--------------------------|---------------------------------|--------------------|--------------|
| | | Quadrillion (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 | Total | 2.490 | 6.821 | 7.421 | 0.033 | (0.016) | 2.648 | 6.349 | 25.746 | |
| 1984 | January | 0.256 | 0.769 | 0.764 | 0.003 | 0.001 | 0.228 | 0.524 | 2.545 | 2.545 |
| | February | 0.237 | 0.689 | 0.651 | 0.003 | 0.002 | 0.230 | 0.493 | 2.304 | 4.848 |
| | March | 0.238 | 0.692 | 0.716 | 0.003 | (0.001) | 0.238 | 0.562 | 2.448 | 7.296 |
| | April | 0.253 | 0.650 | 0.660 | 0.003 | 0.000 | 0.236 | 0.525 | 2.326 | 9.623 |
| | May | 0.245 | 0.611 | 0.673 | 0.003 | (0.001) | 0.241 | 0.592 | 2.365 | 11.988 |
| | June | 0.225 | 0.575 | 0.613 | 0.003 | (0.002) | 0.249 | 0.617 | 2.280 | 14.267 |
| | July | 0.227 | R0.550 | 0.640 | 0.003 | (0.001) | 0.245 | 0.595 | R2.259 | R16.527 |
| | August | 0.230 | 0.561 | 0.638 | 0.002 | (0.002) | 0.254 | 0.631 | 2.315 | R18.842 |
| | September | 0.223 | 0.542 | 0.625 | 0.002 | 0.000 | 0.243 | 0.513 | 2.148 | R20.990 |
| | October | 0.222 | 0.575 | 0.683 | 0.002 | (0.003) | 0.242 | 0.561 | 2.282 | R23.273 |
| | November | 0.232 | 0.608 | 0.611 | 0.002 | (0.003) | 0.234 | 0.553 | 2.238 | R25.510 |
| | December | 0.255 | 0.625 | 0.615 | 0.002 | (0.001) | 0.227 | 0.540 | 2.263 | R27.774 |
| | Total | 2.842 | R7.449 | 7.889 | 0.032 | (0.011) | 2.868 | 6.705 | R27.774 | |
| 1985 | January | 0.236 | 0.728 | 0.694 | 0.003 | 0.000 | 0.229 | 0.579 | 2.470 | 2.470 |
| | February | 0.223 | 0.671 | 0.618 | 0.003 | 0.001 | 0.227 | 0.473 | 2.216 | 4.686 |
| | March | 0.239 | 0.633 | 0.655 | 0.003 | 0.000 | 0.230 | 0.530 | 2.291 | 6.977 |
| | April | 0.241 | 0.589 | 0.637 | 0.003 | 0.001 | 0.234 | 0.522 | 2.226 | 9.203 |
| | May | 0.233 | 0.549 | 0.669 | 0.003 | (0.003) | 0.239 | 0.588 | 2.279 | 11.481 |
| | June | 0.213 | 0.516 | 0.631 | 0.003 | (0.002) | 0.239 | 0.581 | 2.182 | 13.664 |
| | July | 0.223 | R0.534 | 0.631 | 0.003 | (0.002) | 0.238 | 0.599 | R2.226 | R15.890 |
| | August | 0.226 | R0.529 | 0.617 | 0.002 | (0.001) | 0.244 | 0.590 | R2.206 | R18.096 |
| | September | 0.219 | 0.518 | 0.622 | 0.002 | (0.003) | 0.241 | 0.510 | 2.111 | R20.207 |
| | October | 0.221 | 0.562 | 0.680 | 0.002 | (0.001) | 0.236 | 0.551 | 2.250 | R22.456 |
| | November | 0.231 | 0.576 | 0.611 | 0.002 | (0.003) | 0.229 | 0.546 | 2.193 | R24.649 |
| | December | 0.254 | 0.683 | 0.634 | 0.002 | (0.001) | 0.226 | 0.564 | 2.363 | R27.012 |
| | Total | 2.760 | R7.089 | 7.700 | 0.032 | (0.013) | 2.813 | 6.632 | R27.012 | |
| 1986 | January | 0.255 | 0.699 | 0.686 | 0.003 | 0.000 | 0.224 | 0.505 | 2.371 | 2.371 |
| | February | 0.236 | 0.630 | 0.598 | 0.003 | 0.000 | 0.222 | 0.474 | 2.162 | 4.534 |
| | March | 0.236 | 0.623 | 0.684 | 0.003 | (0.001) | 0.231 | 0.520 | 2.295 | 6.829 |
| | April | 0.236 | 0.540 | 0.612 | 0.003 | 0.000 | 0.253 | 0.495 | 2.139 | 8.968 |
| | May | 0.228 | 0.520 | 0.657 | 0.003 | (0.003) | 0.232 | 0.566 | 2.205 | 11.173 |
| | June | 0.210 | 0.483 | 0.628 | 0.003 | 0.000 | 0.229 | 0.558 | 2.111 | 13.283 |
| | July | 0.223 | 0.478 | 0.556 | 0.003 | (0.002) | 0.235 | 0.588 | 2.081 | 15.365 |
| | August | 0.220 | 0.470 | R0.602 | 0.002 | (0.006) | 0.235 | R0.536 | R2.061 | R17.426 |
| | September | 0.211 | 0.438 | 0.643 | 0.002 | 0.000 | 0.237 | 0.526 | 2.057 | 19.483 |
| | Year to Date | 2.057 | 4.881 | 5.665 | 0.026 | (0.012) | 2.098 | 4.768 | 19.483 | |

¹Includes supplemental gaseous fuels.

²Includes electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

³Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

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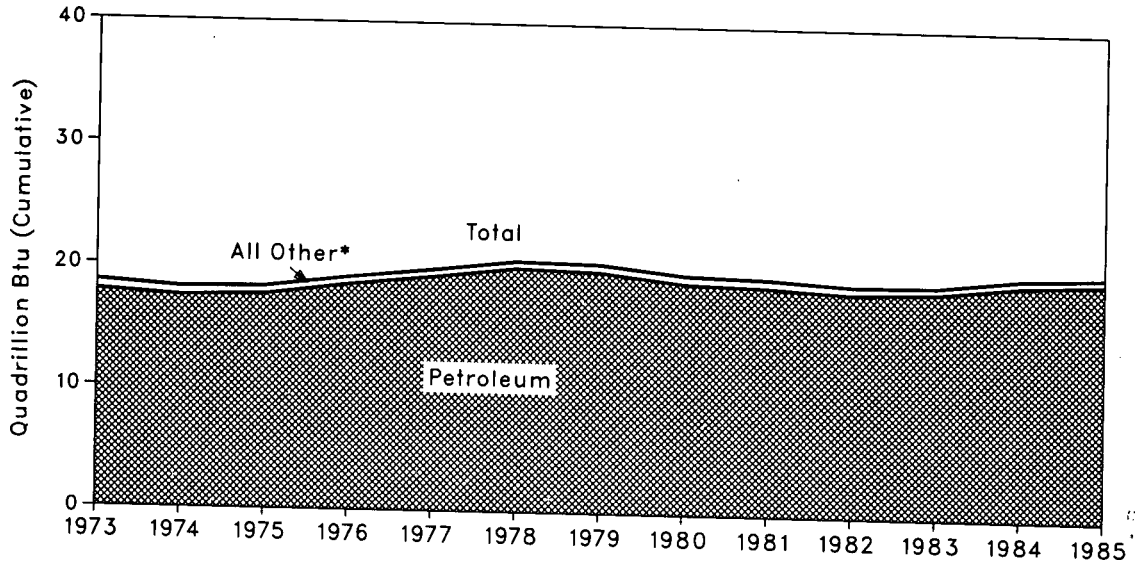
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Additional Notes and Sources: • See the last four pages of this section.

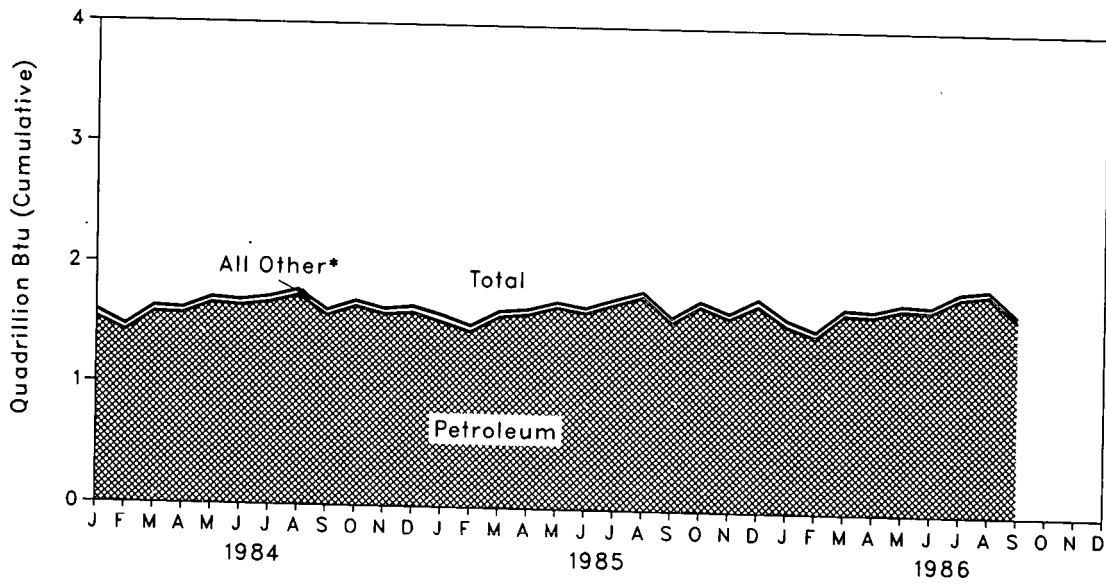
Consumption

Consumption of Energy by the Transportation Sector

Yearly



Monthly



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

Consumption

Consumption of Energy by the Transportation Sector

| | | Coal | Natural Gas ¹ | Petroleum | Electricity ² | Electrical System Energy Losses | Total ³ | Year to Date |
|-------------------------------------|--------------|-------|--------------------------|-----------|--------------------------|---------------------------------|--------------------|--------------|
| Quadrillion (10 ¹⁵) 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 | (*) | 0.559 | 18.499 | 0.010 | 0.025 | 19.093 | |
| 1977 | Total | (*) | 0.543 | 19.230 | 0.010 | 0.025 | 19.808 | |
| 1978 | Total | (*) | 0.539 | 20.019 | 0.009 | 0.022 | 20.589 | |
| 1979 | Total | (*) | 0.612 | 19.817 | 0.010 | 0.025 | 20.464 | |
| 1980 | Total | (*) | 0.648 | 19.009 | 0.011 | 0.026 | 19.693 | |
| 1981 | Total | (*) | 0.657 | 18.800 | 0.011 | 0.026 | 19.495 | |
| 1982 | Total | (*) | 0.613 | 18.417 | 0.011 | 0.026 | 19.066 | |
| 1983 | Total | (*) | 0.504 | 18.591 | 0.011 | 0.026 | 19.132 | |
| 1984 | January | (*) | 0.057 | 1.538 | 0.001 | 0.002 | 1.598 | 1.598 |
| | February | (*) | 0.045 | 1.427 | 0.001 | 0.002 | 1.475 | 3.073 |
| | March | (*) | 0.047 | 1.584 | 0.001 | 0.002 | 1.635 | 4.708 |
| | April | (*) | 0.042 | 1.578 | 0.001 | 0.002 | 1.623 | 6.330 |
| | May | (*) | 0.043 | 1.667 | 0.001 | 0.002 | 1.714 | 8.044 |
| | June | (*) | 0.043 | 1.650 | 0.001 | 0.002 | 1.697 | 9.741 |
| | July | (*) | 0.045 | 1.679 | 0.001 | 0.002 | 1.728 | 11.469 |
| | August | (*) | 0.044 | 1.738 | 0.001 | 0.002 | 1.786 | 13.255 |
| | September | (*) | 0.041 | 1.577 | 0.001 | 0.002 | 1.621 | 14.875 |
| | October | (*) | 0.043 | 1.654 | 0.001 | 0.002 | 1.700 | 16.575 |
| | November | (*) | 0.043 | 1.593 | 0.001 | 0.002 | 1.640 | 18.215 |
| | December | (*) | 0.049 | 1.610 | 0.001 | 0.002 | 1.663 | 19.878 |
| | Total | (*) | 0.545 | 19.295 | 0.011 | 0.027 | 19.878 | |
| 1985 | January | (*) | 0.056 | 1.535 | 0.001 | 0.003 | 1.594 | 1.594 |
| | February | (*) | 0.047 | 1.459 | 0.001 | 0.002 | 1.509 | 3.103 |
| | March | (*) | 0.043 | 1.587 | 0.001 | 0.002 | 1.634 | 4.737 |
| | April | (*) | 0.040 | 1.610 | 0.001 | 0.002 | 1.653 | 6.390 |
| | May | (*) | 0.041 | 1.672 | 0.001 | 0.002 | 1.716 | 8.107 |
| | June | (*) | 0.039 | 1.631 | 0.001 | 0.002 | 1.673 | 9.780 |
| | July | (*) | 0.041 | 1.703 | 0.001 | 0.003 | 1.748 | 11.527 |
| | August | (*) | 0.040 | 1.772 | 0.001 | 0.002 | 1.816 | 13.344 |
| | September | (*) | 0.038 | 1.562 | 0.001 | 0.002 | 1.604 | 14.947 |
| | October | (*) | 0.040 | 1.699 | 0.001 | 0.002 | 1.743 | 16.690 |
| | November | (*) | 0.040 | 1.605 | 0.001 | 0.002 | 1.648 | 18.338 |
| | December | (*) | 0.053 | 1.713 | 0.001 | 0.003 | 1.769 | 20.108 |
| | Total | (*) | 0.520 | 19.547 | 0.012 | 0.028 | 20.108 | |
| 1986 | January | (*) | 0.051 | 1.549 | 0.001 | 0.002 | 1.603 | 1.603 |
| | February | (*) | 0.044 | 1.465 | 0.001 | 0.002 | 1.513 | 3.116 |
| | March | (*) | 0.043 | 1.652 | 0.001 | 0.002 | 1.698 | 4.814 |
| | April | (*) | 0.037 | 1.643 | 0.001 | 0.002 | 1.684 | 6.498 |
| | May | (*) | 0.039 | 1.700 | 0.001 | 0.002 | 1.742 | 8.240 |
| | June | (*) | 0.038 | 1.687 | 0.001 | 0.002 | 1.729 | 9.969 |
| | July | (*) | 0.039 | 1.805 | 0.001 | 0.003 | 1.848 | 11.816 |
| | August | (*) | 0.039 | 1.833 | 0.001 | 0.002 | 1.876 | 13.692 |
| | September | (*) | 0.037 | 1.621 | 0.001 | 0.002 | 1.661 | 15.353 |
| | Year to Date | (*) | 0.368 | 14.955 | 0.009 | 0.021 | 15.353 | |

¹Pipeline fuel only, including supplemental gaseous fuels.

²Includes electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

³Excludes wood, waste, geothermal, wind, photovoltaic, and solar thermal energy except for small amounts used by electric utilities to generate electricity for distribution.

*Since 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.

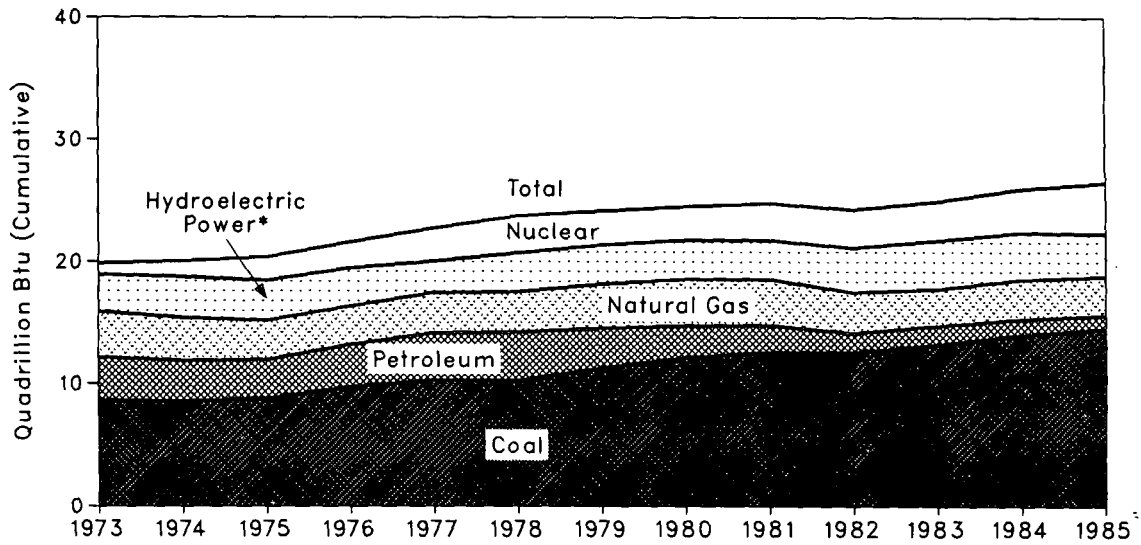
• Totals may not equal sum of components due to independent rounding.

Additional Notes and Sources: • See the last four pages of this section.

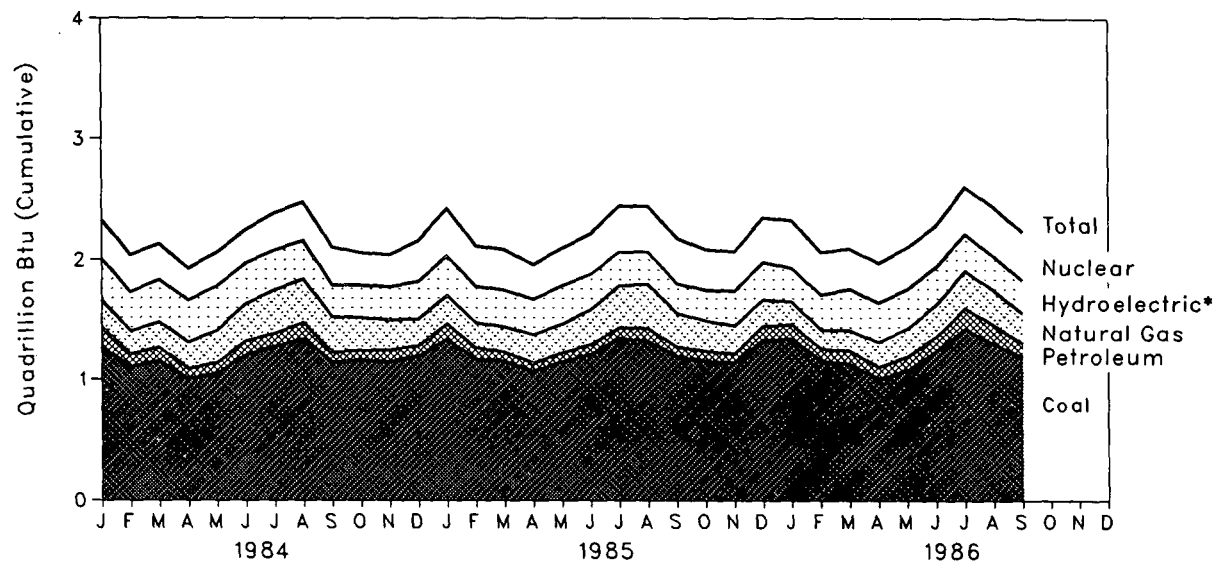
Consumption

Energy Input at Electric Utilities

Yearly



Monthly



*Includes other.

Consumption

Energy Input at Electric Utilities

| | | Coal | Natural Gas ¹ | Petroleum ² | Hydro-electric Power ³ | Nuclear Electric Power | Other ⁴ | Total | Year to Date |
|-------------|---------------------|-------------------------------------|--------------------------|------------------------|-----------------------------------|------------------------|--------------------|---------------|--------------|
| | | Quadrillion (10 ¹⁵) 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 | 24.505 | |
| 1981 | Total | 12.583 | 3.768 | 2.202 | 3.072 | 3.008 | 0.127 | 24.760 | |
| 1982 | Total | 12.582 | 3.342 | 1.568 | 3.528 | 3.131 | 0.108 | 24.259 | |
| 1983 | Total | 13.213 | 2.998 | 1.544 | 3.838 | 3.203 | 0.133 | 24.929 | |
| 1984 | January | 1.271 | 0.223 | 0.169 | 0.335 | 0.318 | 0.011 | 2.327 | 2.327 |
| | February | 1.103 | 0.194 | 0.108 | 0.313 | 0.308 | 0.013 | 2.039 | 4.365 |
| | March | 1.151 | 0.213 | 0.115 | 0.340 | 0.296 | 0.015 | 2.130 | 6.495 |
| | April | 1.004 | 0.228 | 0.081 | 0.336 | 0.263 | 0.014 | 1.925 | 8.420 |
| | May | 1.045 | 0.274 | 0.090 | 0.357 | 0.280 | 0.014 | 2.060 | 10.480 |
| | June | 1.202 | 0.308 | 0.121 | 0.325 | 0.274 | 0.013 | 2.243 | 12.723 |
| | July | 1.274 | 0.361 | 0.111 | 0.318 | 0.307 | 0.013 | 2.383 | 15.107 |
| | August | 1.338 | 0.362 | 0.137 | 0.302 | 0.320 | 0.016 | 2.475 | 17.582 |
| | September | 1.140 | 0.301 | 0.083 | 0.250 | 0.316 | 0.015 | 2.106 | 19.687 |
| | October | 1.155 | 0.279 | 0.084 | 0.254 | 0.269 | 0.016 | 2.057 | 21.745 |
| | November | 1.144 | 0.253 | 0.100 | 0.260 | 0.266 | 0.016 | 2.040 | 23.784 |
| | December | 1.193 | 0.225 | 0.086 | 0.296 | 0.335 | 0.018 | 2.153 | 25.937 |
| | Total | 14.020 | 3.220 | 1.286 | 3.684 | 3.553 | 0.174 | 25.937 | |
| 1985 | January | 1.334 | 0.235 | 0.132 | 0.311 | 0.392 | 0.018 | 2.421 | 2.421 |
| | February | 1.163 | 0.210 | 0.101 | 0.289 | 0.334 | 0.016 | 2.113 | 4.534 |
| | March | 1.148 | 0.215 | 0.077 | 0.289 | 0.337 | 0.018 | 2.084 | 6.619 |
| | April | 1.067 | 0.243 | 0.066 | 0.278 | 0.287 | 0.016 | 1.956 | 8.575 |
| | May | 1.144 | 0.245 | 0.075 | 0.303 | 0.311 | 0.016 | 2.096 | 10.671 |
| | June | 1.208 | 0.293 | 0.083 | 0.280 | 0.334 | 0.016 | 2.213 | 12.884 |
| | July | 1.347 | 0.349 | 0.090 | 0.261 | 0.382 | 0.018 | 2.446 | 15.330 |
| | August | 1.322 | 0.368 | 0.107 | 0.250 | 0.377 | 0.018 | 2.443 | 17.773 |
| | September | 1.190 | 0.285 | 0.082 | 0.229 | 0.374 | 0.018 | 2.178 | 19.951 |
| | October | 1.152 | 0.259 | 0.082 | 0.239 | 0.338 | 0.017 | 2.088 | 22.039 |
| | November | 1.138 | 0.239 | 0.075 | 0.267 | 0.327 | 0.021 | 2.067 | 24.106 |
| | December | 1.329 | 0.218 | 0.120 | 0.292 | 0.366 | 0.022 | 2.348 | 26.454 |
| | Total | 14.542 | 3.160 | 1.090 | 3.289 | 4.160 | 0.213 | 26.454 | |
| 1986 | January | 1.342 | 0.191 | 0.119 | 0.257 | 0.393 | 0.023 | 2.324 | 2.324 |
| | February | 1.154 | 0.163 | 0.101 | 0.272 | 0.355 | 0.019 | 2.064 | 4.388 |
| | March | 1.130 | 0.176 | 0.107 | 0.325 | 0.334 | 0.020 | 2.092 | 6.480 |
| | April | 1.008 | 0.205 | 0.097 | 0.315 | 0.330 | 0.018 | 1.974 | 8.454 |
| | May | 1.078 | 0.240 | 0.111 | 0.311 | 0.346 | 0.018 | 2.104 | 10.558 |
| | June | 1.234 | 0.270 | 0.123 | 0.298 | 0.340 | 0.020 | 2.285 | 12.843 |
| | July | 1.426 | 0.312 | 0.173 | 0.283 | 0.389 | 0.021 | 2.604 | 15.447 |
| | August | 1.295 | 0.287 | R0.163 | 0.262 | R0.406 | 0.021 | R2.434 | R17.881 |
| | September | 1.185 | 0.256 | 0.115 | 0.258 | 0.397 | 0.018 | 2.228 | 20.109 |
| | Year to Date | 10.852 | 2.100 | 1.109 | 2.579 | 3.290 | 0.179 | 20.109 | |

¹Includes supplemental gaseous fuels.

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.

⁴Other is electricity generated for distribution from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy.

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.

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, and electricity generated from nuclear power. Total energy consumed also includes electricity generated from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy but excludes other energy obtained from those sources because consistent historical data are not available.

2. Economic Sectors: Energy use is assigned to the major economic sectors according to the following guidelines as closely as possible:

- Residential and Commercial Sector—private household establishments (which consume energy primarily for space heating, water heating, air conditioning, lighting, refrigeration, cooking, and clothes drying); non-manufacturing business establishments, including hotels, motels, restaurants, wholesale businesses, retail stores, laundries, and other service enterprises; health, social, and educational institutions; and Federal, State, and local governments. Street lights, pumps, bridges, and public swimming pools are also included.
- Industrial Sector—manufacturing, construction, mining, agriculture, fishing, and forestry establishments.
- Transportation Sector—private and public vehicles that move people and commodities. Included are automobiles, trucks, buses, motorcycles, railroads and railways (including streetcars), aircraft, ships, barges, and natural gas pipelines.
- Electric Utility Sector—privately and publicly owned establishments that generate electricity primarily for use by the public.

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

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

Sources:

- 1973 through September 1977: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook* and *Minerals Industry Surveys*.
- Electric Utilities—October 1977 forward: Energy Information 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 Distribution 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 - Quarterly/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*, "Natural 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 Commission (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 fuel deliveries) reported as consumed in internal combustion and gas turbine engine plants. From January 1980, electric utility consumption of distillate 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 1984.*

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 utility sectors in proportion to the amount of distillate fuel delivered to end users, grouped into sectors from EIA's "Deliveries of Fuel Oil and Kerosene" ("Deliveries") reports (based primarily on data collected by Form EIA-821, previously Form EIA-172) as follows:

- Residential sector deliveries are directly from the "Deliveries" reports for 1979 through 1984. 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 1984 (cont'd).

- Commercial sector deliveries are directly from the "Deliveries" reports for 1979 through 1984. 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 1984 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 1984.

- 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, the American Petroleum Institute for 1981 and 1982, and the Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," for 1983 and 1984.
- 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 estimates from each month's total distillate fuel supplied.

— Non-Electric Utility Sectors, 1985 Forward.

Each month's non-electric utility consumption subtotal 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 1984.

- **Jet Fuel**—Through 1982, small amounts of kerosene-type 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" ("Deliveries") reports (based primarily on data collected by Form EIA-821, previously Form EIA-172) as follows:
 - Residential sector deliveries are directly from the "Deliveries" reports for 1979 through 1984. Deliveries for 1984 are used as estimates for succeeding periods. Prior to 1979, each year's deliveries category 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 1984. Deliveries for 1984 are used as estimates for succeeding periods. Prior to 1979, each year's deliveries category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares; and
- Industrial sector deliveries are directly from the "Deliveries" reports for 1979 through 1984. Deliveries for 1984 are used as estimates for succeeding periods. Prior to 1979, each year's deliveries category 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)**—The annual shares of LPG's total consumption that are estimated to be consumed by each end-use sector are applied to each month's total LPG consumption (i.e., product supplied) to create monthly end-use consumption estimates. The annual end-use 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 assumed 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 60 percent transportation and 40 percent industrial in 1984.
- LPG consumed annually by the industrial sector 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 industrial 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 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 sources of the annual sales data for creating annual end-use shares are:

- 1973 through 1982: EIA's "Sales of Liquefied Petroleum Gases and Ethane" reports, based primarily on data collected by Form EIA-174.
- 1983: End-use consumption estimates for 1983 are based on 1982 end-use consumption estimates because the collection of data under Form EIA-174 was discontinued after data year 1982.
- 1984: American Petroleum Institute (API), "1984 Sales of Natural Gas Liquids and Liquefied Refinery Gases" (October 1985) based on an LPG sales survey jointly sponsored by API, the Gas Processors Association, and the National Liquefied Petroleum Gas Association.
- Succeeding periods: The 1984 source is used to estimate succeeding periods.

- **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. Department of Commerce, Bureau of the Census, *Current 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 Highway 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 residual 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 1984.**

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 residual fuel delivered to end users, grouped into sectors from EIA's "Deliveries of Fuel Oil and Kerosene" ("Deliveries") reports (based primarily on data collected by Form EIA-821, previously Form EIA-172) as follows:

- Commercial sector deliveries are directly from the "Deliveries" reports for 1979 through 1984. 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;
- Industrial sector deliveries for 1979 through 1984 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 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 1984.**

- 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 fuel oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation for 1973 through 1980, the American Petroleum Institute for 1981 and 1982, and the Form EIA-782A, "Refiners/Gas Plant Operators' Monthly

Petroleum Product Sales Report," for 1983 and 1984.

- 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 subtracting the commercial, transportation, and electric utility sector estimates from each month's total residual fuel supplied.

— **Non-Electric Utility Sectors, 1985 Forward.**

Each month's non-electric utility consumption subtotal 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 1984.

- **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 estimates for 1982 forward were revised in the May 1984 *Monthly Energy Review*. The revisions do not cause discontinuity in the annual data series: the data continue to come from the same source. The monthly data series, however, are discontinuous because monthly data from 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 1984: DOE, Economic Regulatory Administration, 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 Wood, Waste, Geothermal, 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 kilowatt-hour.

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 those losses occur at steam-electric power plants (conventional and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. The 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 those thermal conversion 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 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.

Petroleum*

Domestic crude oil production during November 1986 was estimated to be 8.7 million barrels per day, 0.4 percent below the rate of the previous month and 1.9 percent lower than the November 1985 rate.

Total petroleum imports averaged 6.3 million barrels per day in November 1986, 1.2 percent more than the October 1986 rate and 2.8 percent more than the November 1985 rate.

In November 1986, 16.2 million barrels per day of petroleum products were supplied for domestic use, 1.2 percent below the level in October 1986 but 4.8 percent above the level of the previous November. Motor gasoline accounted for 42.5 percent of the total; distillate fuel oil, 18.5 percent; and residual fuel oil, 9.4 percent.

Motor gasoline supplied during November 1986 averaged 6.9 million barrels per day, 4.5 percent below the rate in October 1986 but 2.0 percent above the rate of the previous November. Stocks of motor gasoline totaled

226 million barrels at the end of November 1986, 3 million barrels above the level at the end of October 1986 and 9 million barrels above the level 1 year earlier.

In November 1986, 3.0 million barrels of distillate fuel oil were supplied per day, 3.2 percent higher than the October 1986 rate and 9.2 percent higher than the November 1985 rate. Distillate fuel oil ending stocks for November 1986 were 153 million barrels, 1 million barrels higher than the ending stocks level in the previous month and 13 million barrels higher than the November 1985 ending stocks level.

Residual fuel oil supplied in November 1986 averaged 1.5 million barrels per day, 25.0 percent higher than the October 1986 rate and 18.2 percent higher than the November 1985 rate. Residual fuel oil stocks measured 44 million barrels at the end of November 1986, 2 million barrels lower than the ending stocks level in the previous month and 6 million barrels lower than the ending stocks level 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 August 1986. The total import data above include imports into the Strategic Petroleum Reserve.

Petroleum

Crude Oil¹ and Petroleum Products Overview

| | | Field Production | | | Stock Withdrawal ² | | Ending Stocks ³ | |
|------|-----------|-----------------------------|-----------|---------------------------|-------------------------------|--------------------|-----------------------------|---|
| | | Total Domestic ⁴ | Crude Oil | Natural Gas Plant Liquids | Crude Oil ⁵ | Petroleum Products | Petroleum Products Supplied | Crude Oil ⁶ and Petroleum Products |
| | | Thousand barrels per day | | | | | | 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 | ⁸ 1,074 |
| 1975 | Average | 10,045 | 8,375 | 1,633 | ⁹ -17 | ⁹ -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 | ⁸ 1,392 |
| 1981 | Average | 10,230 | 8,572 | 1,609 | ⁹ -290 | ⁸ 130 | 16,058 | 1,484 |
| 1982 | Average | 10,252 | 8,649 | 1,550 | -136 | 283 | 15,296 | ⁸ 1,430 |
| 1983 | Average | 10,299 | 8,688 | 1,559 | ⁹ -214 | ⁸ 234 | 15,231 | 1,454 |
| 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 | 10,319 | 8,672 | 1,599 | -25 | 641 | 16,050 | 1,444 |
| | April | 10,531 | 8,862 | 1,619 | -476 | -106 | 15,568 | 1,462 |
| | May | 10,623 | 8,955 | 1,614 | -677 | -434 | 15,620 | 1,496 |
| | June | 10,507 | 8,852 | 1,613 | -104 | -109 | 15,709 | 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 | 10,412 | 8,740 | 1,628 | 76 | 1,351 | 16,109 | 1,512 |
| | February | 10,692 | 9,025 | 1,623 | 425 | 1,347 | 16,121 | 1,462 |
| | March | 10,748 | 9,095 | 1,600 | -309 | 403 | 15,373 | 1,460 |
| | April | 10,673 | 9,043 | 1,582 | -520 | 56 | 15,472 | 1,473 |
| | May | 10,770 | 9,132 | 1,594 | -700 | -399 | 15,504 | 1,508 |
| | June | 10,664 | 9,022 | 1,597 | 264 | -382 | 15,483 | 1,511 |
| | July | 10,550 | 8,949 | 1,568 | 326 | -496 | 15,434 | 1,516 |
| | August | 10,485 | 8,803 | 1,594 | 159 | 568 | 16,060 | 1,494 |
| | September | 10,584 | 8,954 | 1,575 | -34 | -255 | 15,099 | 1,502 |
| | October | 10,637 | 8,970 | 1,610 | 98 | 124 | 15,944 | 1,496 |
| | November | 10,640 | 8,902 | 1,660 | -295 | -634 | 15,503 | 1,523 |
| | December | 10,777 | 9,030 | 1,680 | -58 | 207 | 16,611 | 1,519 |
| | Average | 10,636 | 8,971 | 1,609 | -50 | 153 | 15,726 | |
| 1986 | January | 10,716 | 8,942 | 1,721 | -461 | -228 | 15,923 | 1,538 |
| | February | 10,686 | 8,940 | 1,710 | -35 | 847 | 16,056 | 1,515 |
| | March | 10,596 | 8,939 | 1,617 | -338 | 1,178 | 16,188 | 1,489 |
| | April | 10,413 | 8,815 | 1,561 | 27 | 265 | 15,743 | 1,480 |
| | May | 10,462 | 8,805 | 1,594 | 264 | -1,089 | 15,852 | 1,506 |
| | June | 10,406 | 8,792 | 1,555 | 50 | -1,226 | 15,998 | 1,541 |
| | July | 10,354 | 8,737 | 1,558 | -580 | -615 | 16,075 | 1,578 |
| | August | 10,275 | 8,708 | 1,505 | 243 | -417 | 16,686 | 1,584 |
| | September | 10,203 | 8,671 | 1,482 | -216 | -998 | 15,755 | 1,620 |
| | October | 10,301 | 8,773 | 1,484 | R-203 | R468 | R16,441 | R1,612 |
| | November† | NA | 8,737 | NA | 118 | -5 | 16,242 | 1,613 |
| | Average | NA | 8,805 | NA | -105 | -171 | 16,089 | |

¹Includes lease condensate.

²A negative number indicates an increase in stocks and a positive number indicates a decrease.

³Stocks are totals as of end of period.

⁴Includes crude oil, natural gas plant liquids, other hydrocarbons, and alcohol.

⁵Includes stocks located in the Strategic Petroleum Reserve.

⁶Includes crude oil for storage in the Strategic Petroleum Reserve.

⁷Net imports equals imports minus exports.

⁸In 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.

Petroleum

Crude Oil¹ and Petroleum Products Overview (continued)

| | | Imports | | | Exports | | | Net Imports ⁷ | |
|--------------------------|-----------|----------------|------------------------|--------------------|--------------|------------|--------------------|--------------------------|--------------|
| | | Total | Crude Oil ⁶ | Petroleum Products | Total | Crude Oil | Petroleum Products | | |
| Thousand barrels 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 | 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 | 4,618 | |
| | July | 5,407 | 3,646 | 1,761 | 536 | 108 | 429 | 4,871 | |
| | August | 5,044 | 3,248 | 1,796 | 732 | 190 | 542 | 4,312 | |
| | September | 5,252 | 3,342 | 1,909 | 664 | 162 | 502 | 4,588 | |
| | October | 5,779 | 3,751 | 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 | 4,415 | 2,717 | 1,698 | 792 | 144 | 647 | 3,623 | |
| | February | 3,913 | 2,108 | 1,805 | 857 | 221 | 636 | 3,056 | |
| | March | 4,673 | 2,786 | 1,887 | 694 | 189 | 505 | 3,979 | |
| | April | 5,316 | 3,401 | 1,915 | 764 | 236 | 528 | 4,553 | |
| | May | 5,776 | 3,730 | 2,046 | 705 | 250 | 455 | 5,071 | |
| | June | 4,929 | 3,188 | 1,741 | 692 | 226 | 467 | 4,237 | |
| | July | 4,950 | 3,203 | 1,747 | 675 | 154 | 521 | 4,274 | |
| | August | 4,718 | 3,114 | 1,603 | 749 | 241 | 508 | 3,969 | |
| | September | 4,970 | 3,155 | 1,816 | 806 | 188 | 618 | 4,164 | |
| | October | 5,121 | 3,238 | 1,883 | 690 | 123 | 567 | 4,431 | |
| | November | 6,116 | 3,999 | 2,118 | 1,036 | 286 | 750 | 5,080 | |
| | December | 5,831 | 3,696 | 2,135 | 925 | 197 | 728 | 4,905 | |
| | | Average | 5,067 | 3,201 | 1,866 | 781 | 204 | 577 | 4,286 |
| 1986 | January | 5,386 | 3,329 | 2,057 | 853 | 159 | 694 | 4,533 | |
| | February | 4,622 | 3,005 | 1,617 | 866 | 162 | 704 | 3,756 | |
| | March | 4,638 | 3,000 | 1,637 | 710 | 212 | 498 | 3,927 | |
| | April | 5,310 | 3,709 | 1,601 | 827 | 94 | 733 | 4,483 | |
| | May | 6,016 | 4,029 | 1,987 | 715 | 98 | 616 | 5,301 | |
| | June | 6,802 | 4,675 | 2,128 | 623 | 240 | 383 | 6,179 | |
| | July | 6,784 | 4,648 | 2,136 | 638 | 65 | 573 | 6,145 | |
| | August | 7,075 | 4,826 | 2,249 | 865 | 233 | 632 | 6,210 | |
| | September | 6,977 | 4,984 | 1,993 | 714 | 161 | 553 | 6,263 | |
| | October | R6,217 | R4,317 | R1,899 | 823 | 151 | 672 | 5,394 | |
| | November† | 6,289 | 4,493 | 1,796 | NA | NA | NA | NA | |
| | | Average | 6,019 | 4,098 | 1,921 | 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.

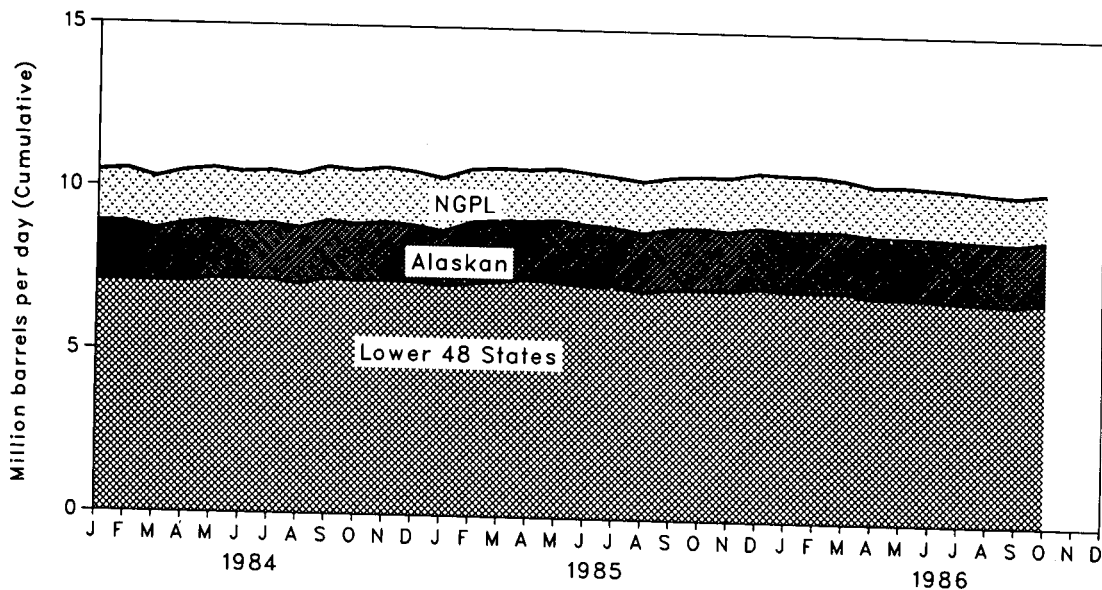
• Totals may not equal sum of components due to independent rounding.

Sources: • See the last page of this section.

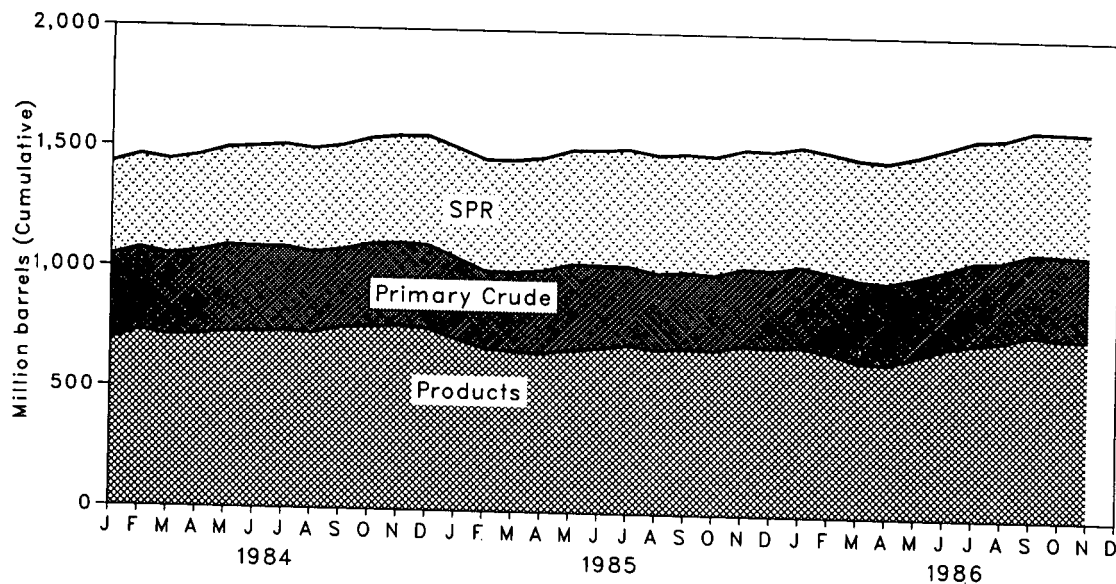
Petroleum

Overview

Production of Crude Oil and Natural Gas Plant Liquids



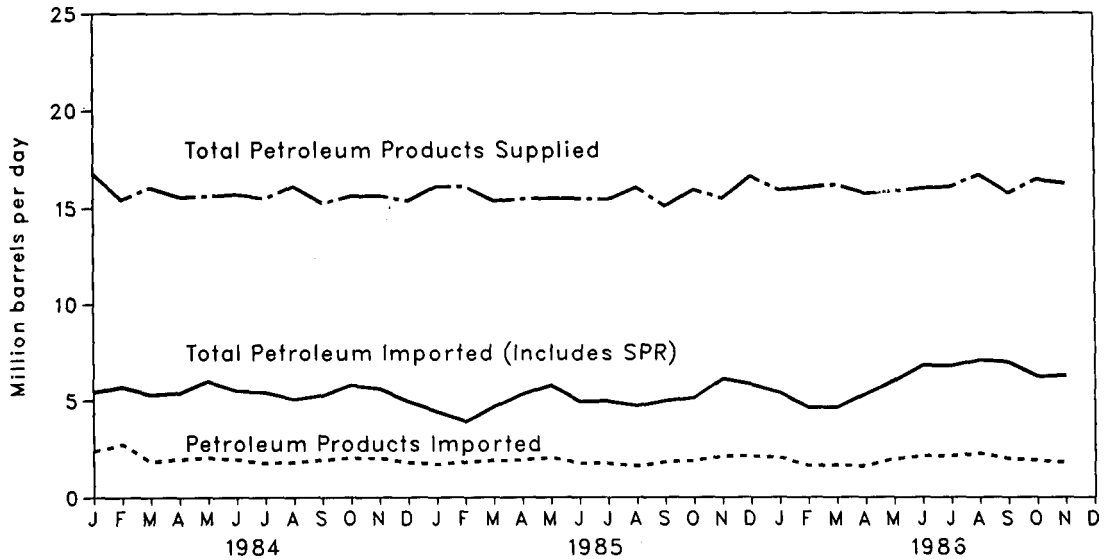
Ending Stocks



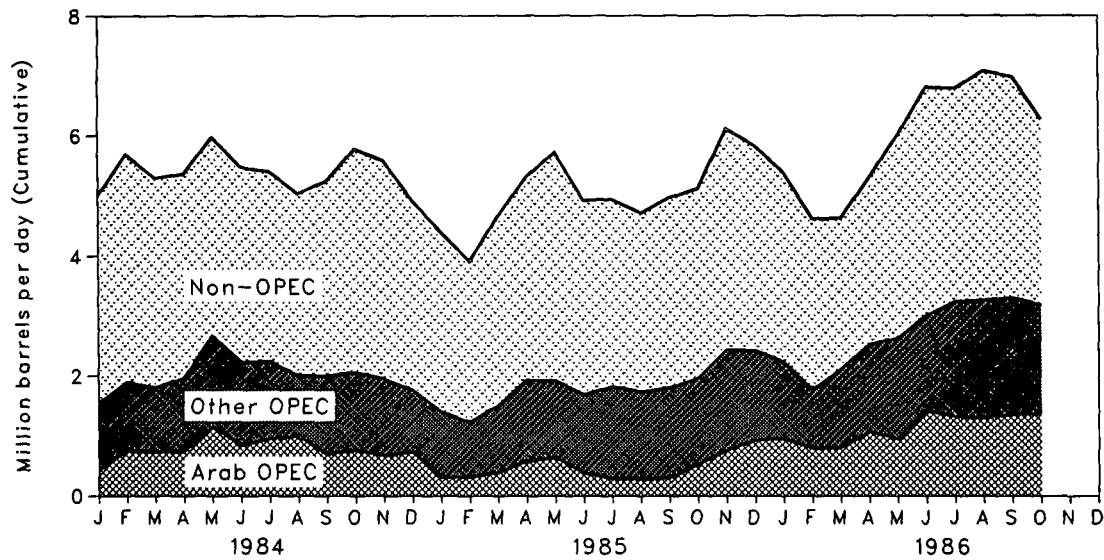
Petroleum

Overview

Products Supplied and Imports



Petroleum Imports by Source



Petroleum

Crude Oil¹ Supply and Disposition

| | | Supply | | | | | | | Unaccounted for Crude Oil |
|--------------------------|-----------|-------------------|---------|---------|------------------|-------------------------------|------------------|-------|---------------------------------|
| | | Field Production | | Imports | | Stock Withdrawal ² | | | |
| | | Total Domestic | Alaskan | Total | SPR ⁴ | Other | SPR ⁴ | Other | |
| Thousand barrels per day | | | | | | | | | |
| 1973 | Average | 9,208 | 198 | 3,244 | | 3,244 | | 11 | 3 |
| 1974 | Average | 8,774 | 193 | 3,477 | | 3,477 | | -62 | -25 |
| 1975 | Average | 8,375 | 191 | 4,105 | | 4,105 | | -17 | 17 |
| 1976 | Average | 8,132 | 173 | 5,287 | | 5,287 | | -39 | 77 |
| 1977 | Average | 8,245 | 464 | 6,615 | 21 | 6,594 | -20 | -150 | -6 |
| 1978 | Average | 8,707 | 1,229 | 6,356 | 162 | 6,195 | -163 | 84 | -57 |
| 1979 | Average | 8,552 | 1,401 | 6,519 | 67 | 6,452 | -67 | -81 | -11 |
| 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 | 46 | 83 |
| 1982 | Average | 8,649 | 1,696 | 3,488 | 165 | 3,323 | -174 | 38 | 71 |
| 1983 | 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 | 3,546 | 309 | 3,237 | -309 | 205 | 246 |
| | July | 8,885 | 1,695 | 3,646 | 329 | 3,317 | -328 | 159 | -164 |
| | August | 8,809 | 1,722 | 3,248 | 180 | 3,068 | -179 | 429 | 293 |
| | September | 8,993 | 1,761 | 3,342 | 53 | 3,289 | -53 | 314 | -94 |
| | October | 8,906 | 1,732 | 3,751 | 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 | 8,740 | 1,647 | 2,717 | 223 | 2,494 | -223 | 298 | 122 |
| | February | 9,025 | 1,877 | 2,108 | 98 | 2,010 | -97 | 522 | 94 |
| | March | 9,095 | 1,866 | 2,786 | 48 | 2,738 | -48 | -262 | 59 |
| | April | 9,043 | 1,784 | 3,401 | 108 | 3,293 | -111 | -409 | 183 |
| | May | 9,132 | 1,888 | 3,730 | 222 | 3,508 | -225 | -475 | 247 |
| | June | 9,022 | 1,871 | 3,188 | 155 | 3,034 | -155 | 419 | 100 |
| | July | 8,949 | 1,809 | 3,203 | 226 | 2,977 | -225 | 551 | 177 |
| | August | 8,803 | 1,795 | 3,114 | 116 | 2,999 | -116 | 274 | 267 |
| | September | 8,954 | 1,867 | 3,155 | 71 | 3,084 | -71 | 37 | 93 |
| | October | 8,970 | 1,850 | 3,238 | 20 | 3,218 | -20 | 119 | 81 |
| | November | 8,902 | 1,804 | 3,999 | 53 | 3,946 | -53 | -242 | 150 |
| | December | 9,030 | 1,852 | 3,696 | 74 | 3,621 | -60 | 2 | 164 |
| | Average | 8,971 | 1,825 | 3,201 | 118 | 3,083 | -117 | 67 | 145 |
| 1986 | January | 8,942 | 1,822 | 3,329 | 51 | 3,277 | -35 | -426 | 788 |
| | February | 8,940 | 1,823 | 3,005 | 24 | 2,981 | -35 | (s) | 241 |
| | March | 8,939 | 1,824 | 3,000 | 59 | 2,941 | -49 | -289 | 316 |
| | April | 8,815 | 1,862 | 3,709 | 63 | 3,646 | -63 | 90 | 79 |
| | May | 8,805 | 1,862 | 4,029 | 36 | 3,993 | -35 | 300 | 308 |
| | June | 8,792 | 1,863 | 4,675 | 64 | 4,611 | -64 | 114 | 36 |
| | July | 8,737 | 1,871 | 4,648 | 52 | 4,595 | -52 | -528 | 214 |
| | August | 8,708 | 1,871 | 4,826 | 51 | 4,775 | -51 | 293 | -222 |
| | September | 8,671 | 1,870 | 4,984 | 47 | 4,937 | -47 | -169 | -134 |
| | October | 8,773 | 1,877 | R4,317 | R37 | R4,281 | R-36 | R-166 | -59 |
| | November† | 8,737 | 1,877 | 4,493 | 43 | 4,450 | -59 | 177 | NA |
| | Average | 8,805 | 1,857 | 4,098 | 48 | 4,050 | -48 | -57 | 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.

Petroleum

Crude Oil¹ Supply and Disposition (continued)

| | | Supply | Disposition | | | | Ending Stocks ² | | |
|------|-----------|-------------------------------------|-----------------|--------------------|---------|----------------------------------|----------------------------|------------------|------------------|
| | | Crude Used Directly ³ | Crude Losses | Refinery Inputs | Exports | Product Supplied ³ | Total | SPR ⁴ | Other Primary |
| | | Thousand barrels per day | | | | | Million barrels | | |
| 1973 | Average | -19 | 13 | 12,431 | 2 | | 242 | | 242 |
| 1974 | Average | -15 | 13 | 12,133 | 3 | | 265 | | 265 |
| 1975 | Average | -17 | 13 | 12,442 | 6 | | 271 | | 271 |
| 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 | Average | NA | 2 | 11,685 | 164 | 66 | 723 | 379 | 344 |
| 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 | NA | 2 | 12,255 | 222 | 61 | 767 | 414 | 353 |
| | July | NA | 2 | 12,028 | 108 | 60 | 772 | 424 | 348 |
| | August | NA | 1 | 12,346 | 190 | 63 | 764 | 429 | 335 |
| | 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 | 11,445 | 144 | 63 | 794 | 457 | 336 |
| | February | NA | 1 | 11,367 | 221 | 63 | 782 | 460 | 322 |
| | March | NA | 1 | 11,372 | 189 | 69 | 791 | 462 | 330 |
| | April | NA | 1 | 11,805 | 236 | 67 | 807 | 465 | 342 |
| | May | NA | 1 | 12,094 | 250 | 65 | 829 | 472 | 357 |
| | June | NA | 1 | 12,292 | 226 | 56 | 821 | 477 | 344 |
| | July | NA | 1 | 12,445 | 154 | 55 | 811 | 484 | 327 |
| | August | NA | (s) | 12,045 | 241 | 55 | 806 | 487 | 318 |
| | September | NA | (s) | 11,925 | 188 | 55 | 807 | 489 | 317 |
| | October | NA | (s) | 12,209 | 123 | 55 | 804 | 490 | 314 |
| | November | NA | (s) | 12,410 | 286 | 59 | 812 | 491 | 321 |
| | December | NA | 1 | 12,570 | 197 | 63 | 814 | 493 | 321 |
| | Average | NA | 1 | 12,002 | 204 | 60 | | | |
| 1986 | January | NA | 3 | 12,375 | 159 | 62 | 826 | 494 | 332 |
| | February | NA | (s) | 11,921 | 162 | 68 | 827 | 495 | 332 |
| | March | NA | 1 | 11,648 | 212 | 56 | 838 | 497 | 341 |
| | April | NA | 1 | 12,483 | 94 | 51 | 837 | 499 | 338 |
| | May | NA | (s) | 13,259 | 98 | 49 | 829 | 500 | 329 |
| | June | NA | (s) | 13,260 | 240 | 52 | 827 | 502 | 325 |
| | July | NA | (s) | 12,902 | 65 | 51 | 845 | 503 | 342 |
| | August | NA | (s) | 13,274 | 233 | 48 | 838 | 505 | 333 |
| | September | NA | (s) | 13,098 | 161 | 45 | 844 | 506 | 338 |
| | October | NA | (s) | R12,636 | 151 | 41 | R850 | 508 | R343 |
| | November† | NA | NA | 12,846 | NA | NA | 852 | 509 | 343 |
| | Average | NA | NA | 12,704 | NA | NA | | | |

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.

Petroleum

Crude Oil and Petroleum Product Imports

Imports from OPEC Sources¹

| | | Algeria | Libya | Saudi Arabia | United Arab Emirates | Indonesia | Iran | Nigeria | Venezuela | Other OPEC ² | Total OPEC | Total Arab OPEC ³ |
|--------------------------|-----------|----------------|------------|--------------|----------------------|------------|------------|-----------|------------|-------------------------|------------|------------------------------|
| Thousand barrels per day | | | | | | | | | | | | |
| 1973 | Average | 136 | 164 | 486 | 71 | 213 | 223 | 459 | 1,135 | 106 | 2,993 | 915 |
| 1974 | Average | 190 | 4 | 461 | 74 | 300 | 469 | 713 | 979 | 88 | 3,280 | 752 |
| 1975 | Average | 282 | 232 | 715 | 117 | 390 | 280 | 762 | 702 | 122 | 3,601 | 1,383 |
| 1976 | Average | 432 | 453 | 1,230 | 254 | 539 | 298 | 1,025 | 700 | 134 | 5,066 | 2,424 |
| 1977 | Average | 559 | 723 | 1,380 | 335 | 541 | 535 | 1,143 | 690 | 287 | 6,193 | 3,185 |
| 1978 | Average | 649 | 654 | 1,144 | 385 | 573 | 555 | 919 | 645 | 226 | 5,751 | 2,963 |
| 1979 | Average | 636 | 658 | 1,356 | 281 | 420 | 304 | 1,080 | 690 | 212 | 5,637 | 3,056 |
| 1980 | Average | 488 | 554 | 1,261 | 172 | 348 | 9 | 857 | 481 | 130 | 4,300 | 2,551 |
| 1981 | Average | 311 | 319 | 1,129 | 81 | 366 | 0 | 620 | 406 | 90 | 3,323 | 1,848 |
| 1982 | Average | 170 | 26 | 552 | 92 | 248 | 35 | 514 | 412 | 97 | 2,146 | 854 |
| 1983 | Average | 240 | 0 | 337 | 30 | 338 | 48 | 302 | 422 | 144 | 1,862 | 632 |
| 1984 | January | 242 | 0 | 477 | 114 | 289 | 0 | 243 | 549 | 51 | 1,965 | 842 |
| | February | 369 | 7 | 324 | 33 | 267 | 0 | 244 | 478 | 174 | 1,896 | 751 |
| | March | 285 | 0 | 310 | 112 | 283 | 67 | 269 | 358 | 127 | 1,811 | 723 |
| | April | 280 | 0 | 320 | 95 | 226 | 0 | 288 | 593 | 158 | 1,962 | 735 |
| | May | 471 | 0 | 329 | 240 | 479 | 0 | 289 | 627 | 242 | 2,677 | 1,146 |
| | June | 302 | 0 | 411 | 46 | 415 | 0 | 243 | 640 | 171 | 2,227 | 838 |
| | July | 332 | 0 | 429 | 112 | 384 | 0 | 204 | 539 | 242 | 2,241 | 946 |
| | August | 404 | 0 | 438 | 82 | 281 | 0 | 114 | 475 | 216 | 2,009 | 993 |
| | September | 359 | 0 | 159 | 113 | 333 | 17 | 160 | 715 | 147 | 2,002 | 688 |
| | October | 333 | 0 | 287 | 114 | 421 | 0 | 208 | 585 | 115 | 2,062 | 754 |
| | November | 298 | 0 | 183 | 124 | 424 | 24 | 163 | 564 | 173 | 1,954 | 668 |
| | December | 204 | 0 | 224 | 211 | 314 | 12 | 166 | 459 | 174 | 1,765 | 723 |
| | | Average | 323 | 1 | 325 | 117 | 343 | 10 | 216 | 548 | 166 | 2,049 |
| 1985 | January | 112 | 0 | 106 | 60 | 296 | 0 | 262 | 481 | 89 | 1,405 | 305 |
| | February | 174 | 0 | 108 | 0 | 232 | 0 | 119 | 524 | 64 | 1,220 | 307 |
| | March | 247 | 0 | 85 | 52 | 283 | 0 | 164 | 588 | 84 | 1,505 | 385 |
| | April | 286 | 8 | 201 | 70 | 313 | 0 | 280 | 684 | 86 | 1,928 | 575 |
| | May | 255 | 0 | 41 | 128 | 265 | 0 | 381 | 552 | 354 | 1,976 | 635 |
| | June | 178 | 5 | 26 | 81 | 438 | 0 | 357 | 452 | 152 | 1,690 | 378 |
| | July | 125 | 10 | 44 | 13 | 390 | 42 | 381 | 573 | 248 | 1,825 | 286 |
| | August | 135 | 0 | 46 | 17 | 377 | 100 | 207 | 568 | 289 | 1,740 | 280 |
| | September | 147 | 0 | 27 | 57 | 206 | 43 | 285 | 808 | 230 | 1,802 | 302 |
| | October | 177 | 20 | 251 | 17 | 277 | 41 | 305 | 676 | 196 | 1,958 | 520 |
| | November | 164 | 11 | 430 | 34 | 356 | 99 | 325 | 727 | 294 | 2,440 | 752 |
| | December | 244 | 0 | 642 | 15 | 324 | 0 | 432 | 625 | 149 | 2,430 | 925 |
| | | Average | 187 | 4 | 168 | 45 | 314 | 27 | 293 | 605 | 187 | 1,830 |
| 1986 | January | 183 | 0 | 664 | 11 | 285 | 0 | 241 | 629 | 216 | 2,229 | 944 |
| | February | 161 | 0 | 600 | 0 | 277 | (s) | 199 | 464 | 64 | 1,766 | 788 |
| | March | 260 | 0 | 482 | 0 | 163 | 0 | 328 | 762 | 117 | 2,112 | 798 |
| | April | 275 | 0 | 722 | 0 | 282 | 0 | 311 | 802 | 139 | 2,532 | 1,061 |
| | May | 190 | 0 | 564 | 32 | 326 | 0 | 383 | 874 | 266 | 2,635 | 944 |
| | June | 319 | 0 | 704 | 83 | 353 | 0 | 362 | 755 | 439 | 3,014 | 1,418 |
| | July | 296 | 0 | 713 | 59 | 519 | 66 | 542 | 720 | 330 | 3,244 | 1,318 |
| | August | 363 | 0 | 653 | 37 | 274 | 93 | 593 | 892 | 366 | 3,271 | 1,300 |
| | September | 231 | 0 | 796 | 62 | 341 | 31 | 646 | 848 | 356 | 3,310 | 1,360 |
| | October | 305 | 0 | 685 | 147 | 344 | 0 | 530 | 834 | 344 | 3,190 | 1,372 |
| | | Average | 259 | 0 | 658 | 43 | 317 | 19 | 415 | 760 | 265 | 2,738 |

¹Excludes 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.

²Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.

³Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

Footnotes continued on following page.

Petroleum

Crude Oil and Petroleum Product Imports (continued)

| | | Imports from Non-OPEC Sources ^a | | | | | | | | | | Total Imports |
|------|-----------|--|-----------|------------|-----------------------|---------------------|----------------|-------------|----------------|----------------|----------------|---------------|
| | | Bahamas | Canada | Mexico | Nether-lands Antilles | Trinidad and Tobago | United Kingdom | Puerto Rico | Virgin Islands | Other Non-OPEC | Total Non-OPEC | |
| | | Thousand barrels per 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 | 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 | 31 | 722 | 676 | 192 | 57 | 429 | 38 | 336 | 819 | 3,302 | 5,979 |
| | June | 52 | 506 | 754 | 234 | 104 | 345 | 53 | 268 | 939 | 3,255 | 5,482 |
| | July | 14 | 577 | 740 | 99 | 120 | 362 | 27 | 292 | 934 | 3,166 | 5,407 |
| | August | 57 | 547 | 640 | 206 | 98 | 388 | 34 | 236 | 829 | 3,035 | 5,044 |
| | 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 |
| 1985 | January | 92 | 616 | 767 | 132 | 113 | 345 | 32 | 235 | 678 | 3,010 | 4,415 |
| | February | 37 | 730 | 652 | 52 | 119 | 151 | 50 | 213 | 689 | 2,693 | 3,913 |
| | March | 36 | 909 | 923 | 49 | 115 | 133 | 29 | 235 | 739 | 3,168 | 4,673 |
| | April | 4 | 890 | 950 | 18 | 107 | 213 | 42 | 205 | 959 | 3,388 | 5,316 |
| | May | 74 | 823 | 929 | 28 | 126 | 419 | 37 | 252 | 1,112 | 3,800 | 5,776 |
| | June | 24 | 720 | 726 | 30 | 92 | 481 | 23 | 271 | 872 | 3,240 | 4,929 |
| | July | 38 | 610 | 814 | 36 | 133 | 324 | 14 | 236 | 918 | 3,124 | 4,950 |
| | August | 11 | 664 | 859 | 18 | 121 | 336 | 28 | 241 | 699 | 2,978 | 4,718 |
| | September | 47 | 783 | 852 | 40 | 129 | 303 | 26 | 173 | 815 | 3,169 | 4,970 |
| | October | 35 | 825 | 745 | 5 | 99 | 352 | 21 | 260 | 821 | 3,163 | 5,121 |
| | November | 22 | 766 | 887 | 30 | 100 | 376 | 26 | 325 | 1,143 | 3,676 | 6,116 |
| | December | 54 | 902 | 676 | 44 | 96 | 273 | 12 | 314 | 1,029 | 3,400 | 5,831 |
| | | Average | 40 | 770 | 816 | 40 | 113 | 310 | 28 | 247 | 873 | 3,237 |
| 1986 | January | 66 | 826 | 680 | 58 | 108 | 348 | 21 | 326 | 724 | 3,157 | 5,386 |
| | February | 15 | 688 | 571 | 11 | 85 | 218 | 20 | 309 | 939 | 2,855 | 4,622 |
| | March | 13 | 741 | 616 | 27 | 79 | 178 | 25 | 186 | 661 | 2,526 | 4,638 |
| | April | 5 | 775 | 693 | 13 | 111 | 188 | 23 | 209 | 762 | 2,779 | 5,310 |
| | May | 30 | 775 | 727 | 38 | 130 | 365 | 27 | 237 | 1,052 | 3,381 | 6,016 |
| | June | 24 | 735 | 879 | 17 | 167 | 568 | 30 | 233 | 1,135 | 3,788 | 6,802 |
| | July | 36 | 754 | 819 | 25 | 131 | 352 | 29 | 237 | 1,156 | 3,540 | 6,784 |
| | August | 35 | 793 | 738 | 12 | 133 | 583 | 7 | 214 | 1,289 | 3,804 | 7,075 |
| | September | 12 | 786 | 615 | 17 | 162 | 437 | 23 | 291 | 1,324 | 3,667 | 6,977 |
| | October | 35 | 846 | 670 | 26 | 112 | 170 | 21 | 215 | 930 | 3,027 | 6,217 |
| | | Average | 27 | 773 | 702 | 25 | 122 | 341 | 23 | 245 | 997 | 3,255 |

Footnotes continued.

^aIncludes 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.

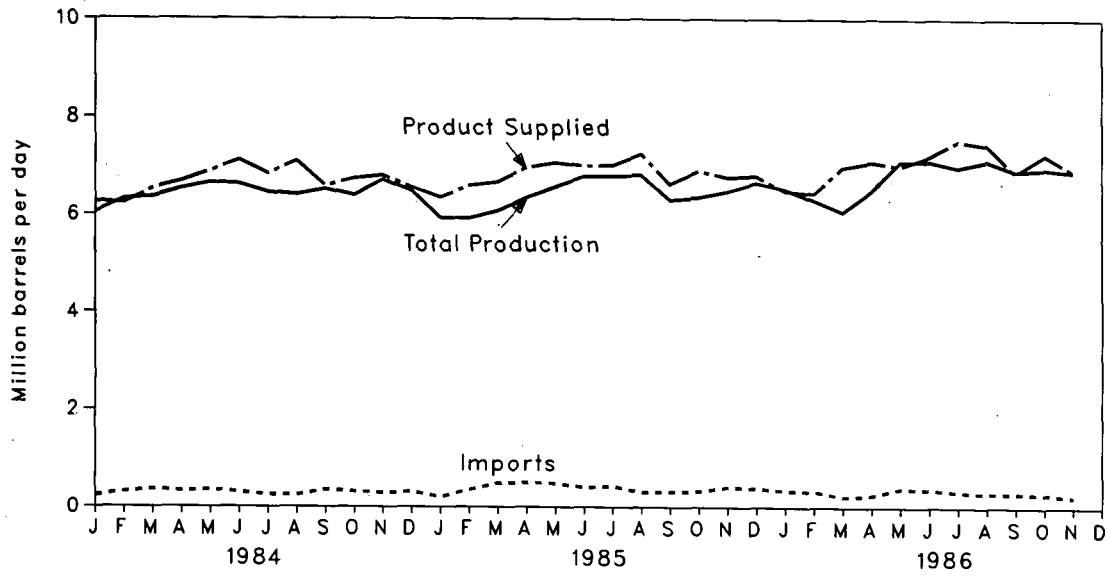
• Beginning in October 1977, Strategic Petroleum Reserve imports are included.

Sources: • See the last page of this section.

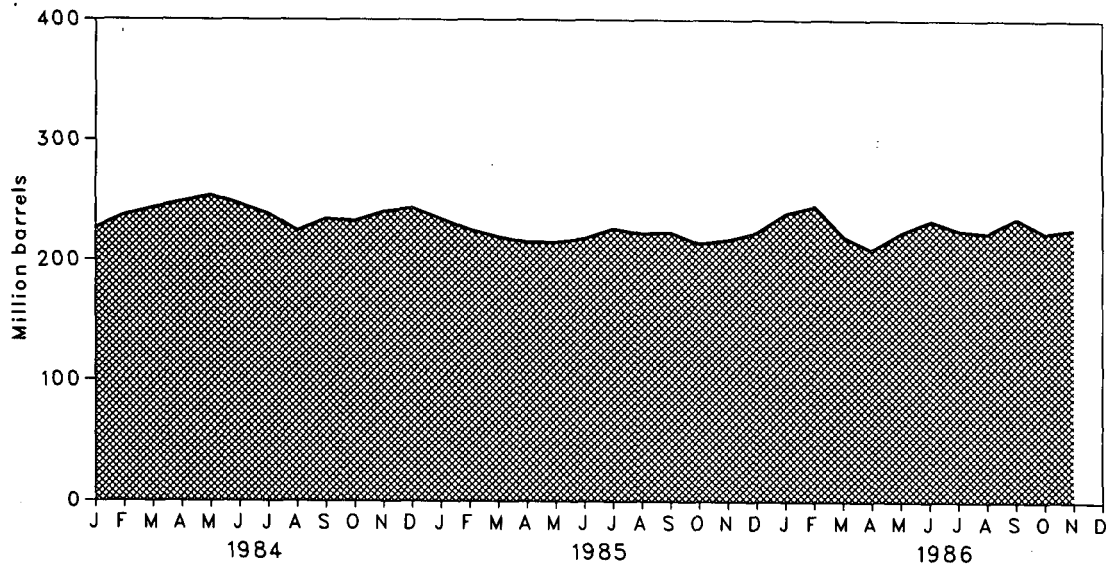
Petroleum

Finished Motor Gasoline Supply and Disposition

Products Supplied, Total Production, and Imports



Ending Stocks



Petroleum

Finished Motor Gasoline Supply and Disposition

| | | Supply | | | Disposition | | | Ending Stocks ¹ | | |
|------|----------------------|--------------------------|----------------------|---------------------------------|-------------|------------------|-----------------------|-----------------------------------|-------------------------|------|
| | | Total Production | Imports ² | Stock Withdrawal ^{2,3} | Exports | Product Supplied | | Total Motor Gasoline ⁵ | Finished Motor Gasoline | |
| | | Thousand barrels per day | | | | Total | Unleaded ⁴ | Unleaded Percent 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 | -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 | Average | 6,340 | 247 | 45 | 10 | 6,622 | 3,647 | 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 | 6,525 | 319 | -167 | (s) | 6,676 | 3,857 | 57.8 | 248 | 207 |
| | May | 6,650 | 346 | -105 | (s) | 6,890 | 4,004 | 58.1 | 253 | 210 |
| | June | 6,619 | 296 | 209 | 17 | 7,107 | 4,214 | 59.3 | 246 | 204 |
| | July | 6,450 | 247 | 142 | 9 | 6,830 | 4,057 | 59.4 | 238 | 200 |
| | 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 | 5,926 | 204 | 220 | 2 | 6,348 | 4,016 | 63.3 | 234 | 198 |
| | February | 5,914 | 348 | 327 | 2 | 6,587 | 4,126 | 62.6 | 225 | 189 |
| | March | 6,072 | 481 | 115 | 3 | 6,664 | 4,202 | 63.1 | 219 | 186 |
| | April | 6,344 | 494 | 128 | 11 | 6,956 | 4,396 | 63.2 | 215 | 182 |
| | May | 6,564 | 480 | 23 | 8 | 7,060 | 4,445 | 63.0 | 215 | 181 |
| | June | 6,780 | 396 | -172 | 7 | 6,997 | 4,482 | 64.1 | 218 | 186 |
| | July | 6,788 | 426 | -188 | 18 | 7,008 | 4,545 | 64.8 | 226 | 192 |
| | August | 6,814 | 305 | 127 | 4 | 7,242 | 4,755 | 65.7 | 222 | 188 |
| | September | 6,299 | 314 | 22 | 6 | 6,629 | 4,357 | 65.7 | 223 | 187 |
| | October | 6,356 | 324 | 235 | 19 | 6,897 | 4,485 | 65.0 | 214 | 180 |
| | November | 6,480 | 410 | -104 | 17 | 6,770 | 4,477 | 66.1 | 217 | 183 |
| | December | 6,651 | 386 | -227 | 18 | 6,792 | 4,561 | 67.1 | 223 | 190 |
| | Average | 6,419 | 381 | 41 | 10 | 6,831 | 4,406 | 64.5 | | |
| 1986 | January | 6,522 | 341 | -376 | 0 | 6,487 | 4,404 | 67.9 | 239 | 201 |
| | February | 6,297 | 325 | -185 | 0 | 6,438 | 4,341 | 67.4 | 245 | 207 |
| | March | 6,060 | 211 | 699 | 0 | 6,970 | 4,706 | 67.5 | 220 | 185 |
| | April | 6,497 | 241 | 346 | 0 | 7,083 | 4,813 | 67.9 | 209 | 175 |
| | May | 7,088 | 388 | -481 | 0 | 6,995 | 4,714 | 67.4 | 223 | 190 |
| | June | 7,102 | 368 | -269 | 0 | 7,200 | 4,934 | 68.5 | 233 | 198 |
| | July | 6,974 | 317 | 228 | 0 | 7,519 | 5,232 | 69.6 | 225 | 191 |
| | August | 7,105 | 287 | 82 | 40 | 7,434 | 5,131 | 69.0 | 223 | 188 |
| | September | 6,900 | 289 | -292 | 40 | 6,857 | 4,800 | 70.0 | 235 | 197 |
| | October | R6,639 | R268 | R379 | 54 | R7,232 | 5,068 | 70.1 | R223 | R185 |
| | November† | 6,884 | 211 | -152 | NA | 6,903 | NA | NA | 226 | 189 |
| | Average | 6,736 | 295 | 1 | NA | 7,016 | NA | NA | | |

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.

⁴Includes gasohol.

⁵Includes motor gasoline blending components.

⁶In 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.

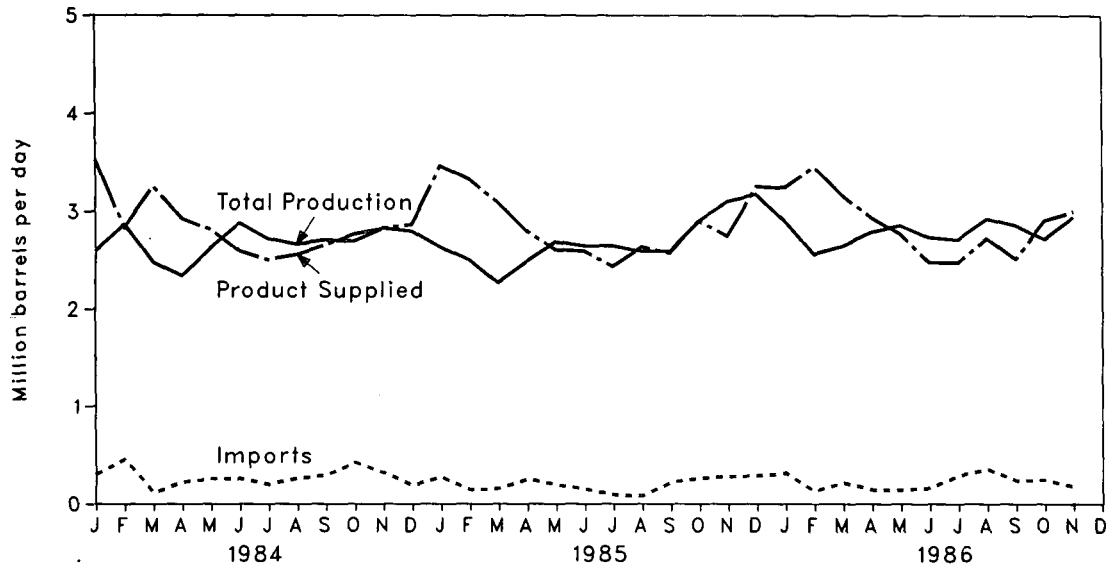
• Totals may not equal sum of components due to independent rounding.

Sources: • See the last page of this section.

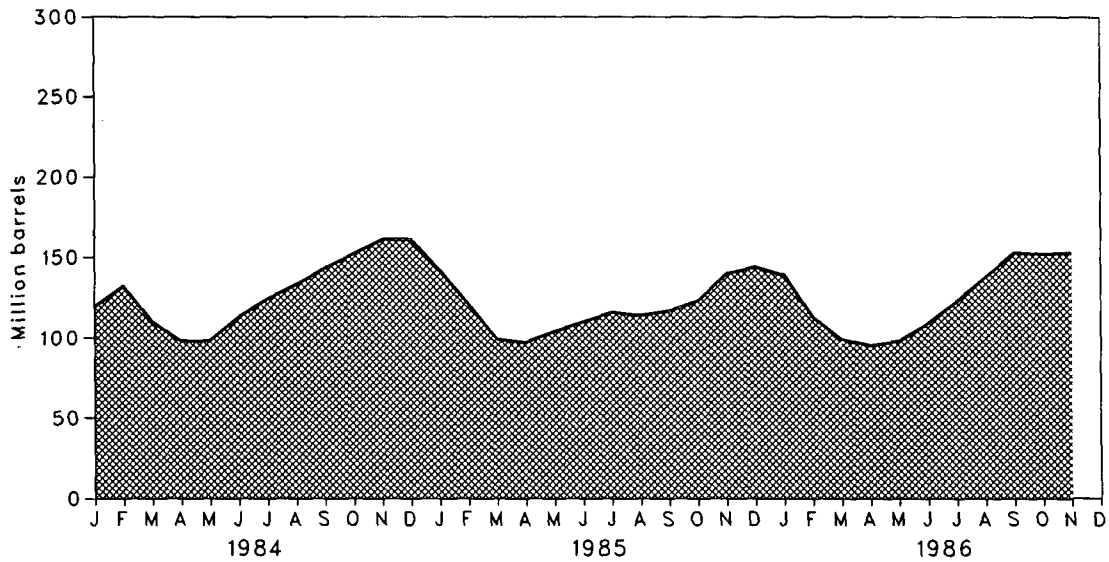
Petroleum

Distillate Fuel Oil Supply and Disposition

Product Supplied, Total Production, and Imports



Ending Stocks



Petroleum

Distillate Fuel Oil Supply and Disposition

| | | Supply | | | | Disposition | | Ending Stocks ¹ | |
|------|----------------------|--------------------------|--------------|-------------------------------|----------------------------------|-------------|-------------------------------|----------------------------|--|
| | | Total Production | Imports | Stock Withdrawal ² | Crude Used Directly ³ | Exports | Product Supplied ³ | | |
| | | Thousand barrels per day | | | | | | Million barrels | |
| 1973 | Average | 2,822 | 392 | -115 | 2 | 9 | 3,092 | 196 | |
| 1974 | Average | 2,669 | 289 | -9 | 2 | 2 | 2,948 | 200 | |
| 1975 | Average | 2,654 | 155 | 40 | 2 | 1 | 2,851 | 209 | |
| 1976 | Average | 2,924 | 146 | 62 | 1 | 1 | 3,133 | 186 | |
| 1977 | Average | 3,278 | 250 | -176 | 1 | 1 | 3,352 | 250 | |
| 1978 | Average | 3,167 | 173 | 93 | 1 | 3 | 3,432 | 216 | |
| 1979 | Average | 3,153 | 193 | -34 | 1 | 3 | 3,311 | 229 | |
| 1980 | Average | 2,662 | 142 | 64 | 1 | 3 | 2,866 | 205 | |
| 1981 | Average ⁴ | 2,613 | 173 | 38 | 10 | 5 | 2,829 | 192 | |
| 1982 | Average | 2,606 | 93 | 35 | 10 | 74 | 2,671 | 179 | |
| 1983 | Average | 2,456 | 174 | 124 | NA | 64 | 2,690 | 140 | |
| 1984 | 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 | |
| | May | 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 | |
| 1985 | January | 2,631 | 272 | 603 | NA | 41 | 3,465 | 142 | |
| | February | 2,504 | 143 | 748 | NA | 64 | 3,330 | 121 | |
| | March | 2,267 | 156 | 714 | NA | 44 | 3,093 | 99 | |
| | April | 2,490 | 253 | 82 | NA | 27 | 2,798 | 97 | |
| | May | 2,686 | 197 | -245 | NA | 31 | 2,607 | 104 | |
| | June | 2,647 | 152 | -175 | NA | 30 | 2,594 | 110 | |
| | July | 2,646 | 95 | -193 | NA | 112 | 2,436 | 116 | |
| | August | 2,592 | 81 | 62 | NA | 100 | 2,636 | 114 | |
| | September | 2,594 | 222 | -120 | NA | 121 | 2,575 | 117 | |
| | October | 2,902 | 262 | -195 | NA | 67 | 2,901 | 123 | |
| | November | 3,102 | 280 | -543 | NA | 92 | 2,747 | 140 | |
| | December | 3,176 | 287 | -128 | NA | 81 | 3,254 | 144 | |
| | | Average | 2,687 | 200 | 48 | NA | 67 | 2,868 | |
| 1986 | January | 2,899 | 312 | 157 | NA | 126 | 3,243 | 139 | |
| | February | 2,563 | 129 | 938 | NA | 176 | 3,455 | 113 | |
| | March | 2,647 | 217 | 436 | NA | 131 | 3,168 | 99 | |
| | April | 2,788 | 146 | 132 | NA | 128 | 2,939 | 95 | |
| | May | 2,857 | 145 | -81 | NA | 149 | 2,771 | 98 | |
| | June | 2,735 | 165 | -367 | NA | 53 | 2,480 | 109 | |
| | July | 2,712 | 293 | -452 | NA | 75 | 2,478 | 123 | |
| | August | 2,926 | 355 | -491 | NA | 64 | 2,726 | 138 | |
| | September | 2,859 | 240 | -486 | NA | 98 | 2,515 | 153 | |
| | October | R2,717 | R246 | R17 | NA | 74 | R2,907 | 152 | |
| | November† | 2,944 | 183 | -43 | NA | NA | 3,000 | 153 | |
| | | Average | 2,788 | 222 | -28 | NA | NA | 2,877 | |

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 distillate fuel oil does not include crude oil 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.

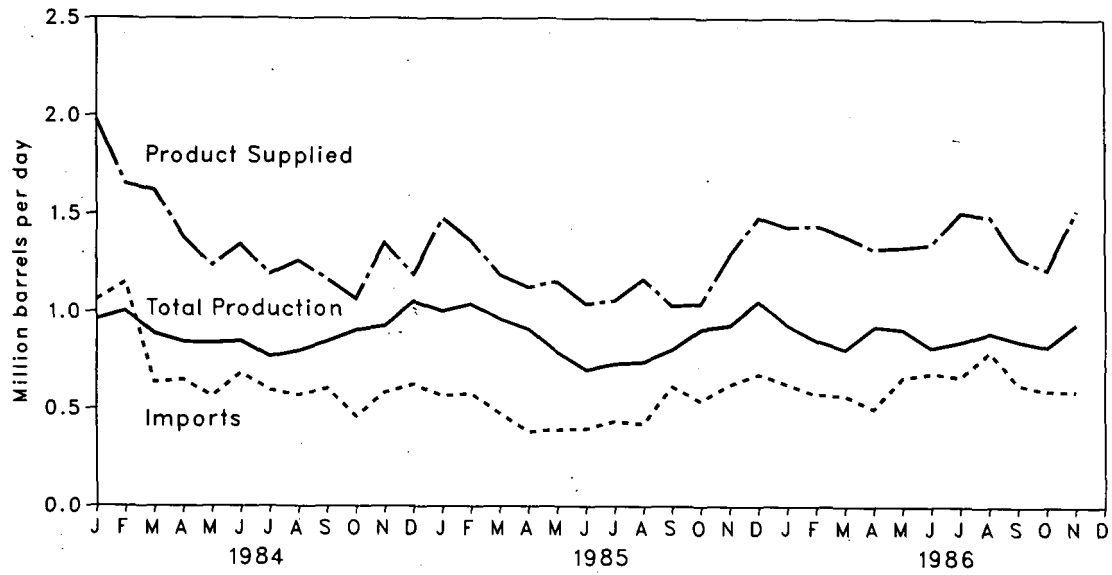
• Totals may not equal sum of components due to independent rounding.

Sources: • See the last page of this section.

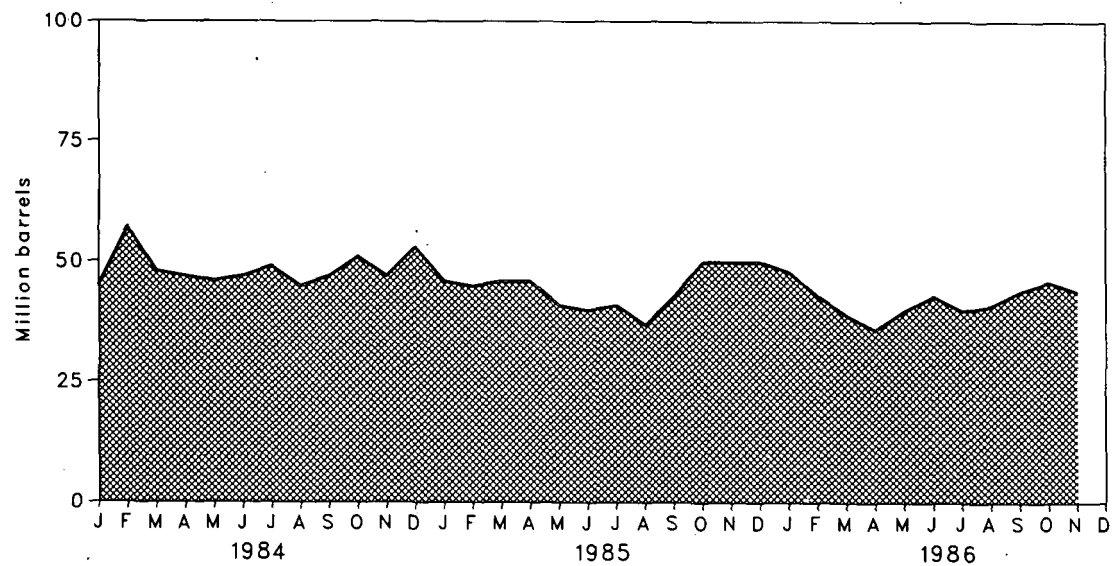
Petroleum

Residual Fuel Oil Supply and Disposition

Product Supplied, Total Production, and Imports



Ending Stocks



Petroleum

Residual Fuel Oil Supply and Disposition

| | | Supply | | | | Disposition | | Ending Stocks ¹ | |
|------|----------------------|--------------------------|---------|-------------------------------|----------------------------------|-------------|-------------------------------|----------------------------|--|
| | | Total Production | Imports | Stock Withdrawal ² | Crude Used Directly ³ | Exports | Product Supplied ³ | | |
| | | Thousand barrels 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 | 60 | |
| 1975 | Average | 1,235 | 1,223 | 2 | 15 | 15 | 2,462 | 74 | |
| 1976 | Average | 1,377 | 1,413 | 5 | 17 | 12 | 2,801 | 72 | |
| 1977 | Average | 1,754 | 1,359 | -48 | 13 | 6 | 3,071 | 90 | |
| 1978 | Average | 1,667 | 1,355 | -1 | 13 | 13 | 3,023 | 90 | |
| 1979 | Average | 1,687 | 1,151 | -15 | 12 | 9 | 2,826 | 96 | |
| 1980 | Average | 1,580 | 939 | 10 | 12 | 33 | 2,508 | 92 | |
| 1981 | Average ⁴ | 1,321 | 800 | 37 | 48 | 118 | 2,088 | 78 | |
| 1982 | Average | 1,070 | 776 | 32 | 48 | 209 | 1,716 | 66 | |
| 1983 | Average | 852 | 699 | 55 | NA | 185 | 1,421 | 49 | |
| 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 | 627 | -193 | NA | 299 | 1,189 | 53 | |
| | | Average | 891 | 681 | -12 | NA | 190 | 1,369 | |
| 1985 | January | 1,004 | 568 | 219 | NA | 312 | 1,480 | 46 | |
| | February | 1,040 | 580 | 41 | NA | 295 | 1,366 | 45 | |
| | March | 963 | 477 | -35 | NA | 216 | 1,190 | 46 | |
| | April | 912 | 383 | -2 | NA | 167 | 1,126 | 46 | |
| | May | 793 | 394 | 155 | NA | 185 | 1,156 | 41 | |
| | June | 702 | 400 | 59 | NA | 118 | 1,043 | 40 | |
| | July | 732 | 437 | -29 | NA | 83 | 1,058 | 41 | |
| | August | 742 | 424 | 108 | NA | 106 | 1,168 | 37 | |
| | September | 808 | 617 | -207 | NA | 188 | 1,031 | 43 | |
| | October | 912 | 541 | -228 | NA | 184 | 1,042 | 50 | |
| | November | 932 | 627 | 5 | NA | 275 | 1,290 | 50 | |
| | December | 1,055 | 681 | -4 | NA | 250 | 1,483 | 50 | |
| | | Average | 882 | 510 | 7 | NA | 197 | 1,202 | |
| 1986 | January | 933 | 629 | 83 | NA | 211 | 1,435 | 48 | |
| | February | 856 | 577 | 193 | NA | 183 | 1,443 | 43 | |
| | March | 810 | 571 | 125 | NA | 113 | 1,393 | 39 | |
| | April | 927 | 504 | 96 | NA | 202 | 1,325 | 36 | |
| | May | 913 | 665 | -117 | NA | 129 | 1,333 | 40 | |
| | June | 818 | 687 | -114 | NA | 43 | 1,349 | 43 | |
| | July | 850 | 668 | 82 | NA | 90 | 1,510 | 40 | |
| | August | 896 | 799 | -26 | NA | 174 | 1,493 | 41 | |
| | September | 855 | 631 | -92 | NA | 110 | 1,283 | 44 | |
| | October | R826 | R598 | R-59 | NA | 144 | R1,220 | R46 | |
| | November† | 944 | 594 | 125 | NA | NA | 1,525 | 44 | |
| | | Average | 875 | 630 | 26 | NA | NA | 1,392 | |

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 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.

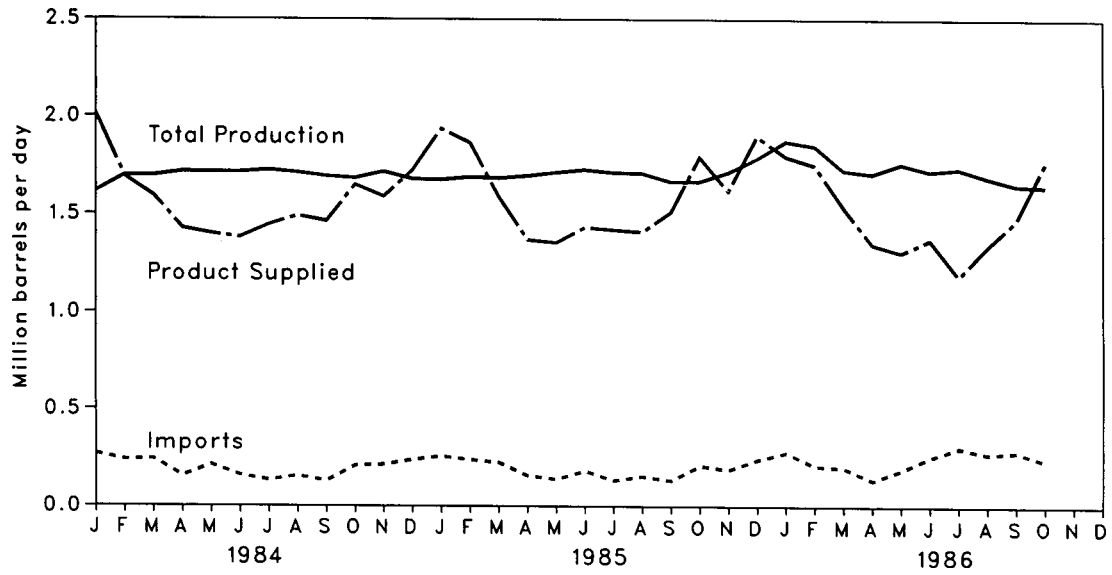
• Totals may not equal sum of components due to independent rounding.

Sources: • See the last page of this section.

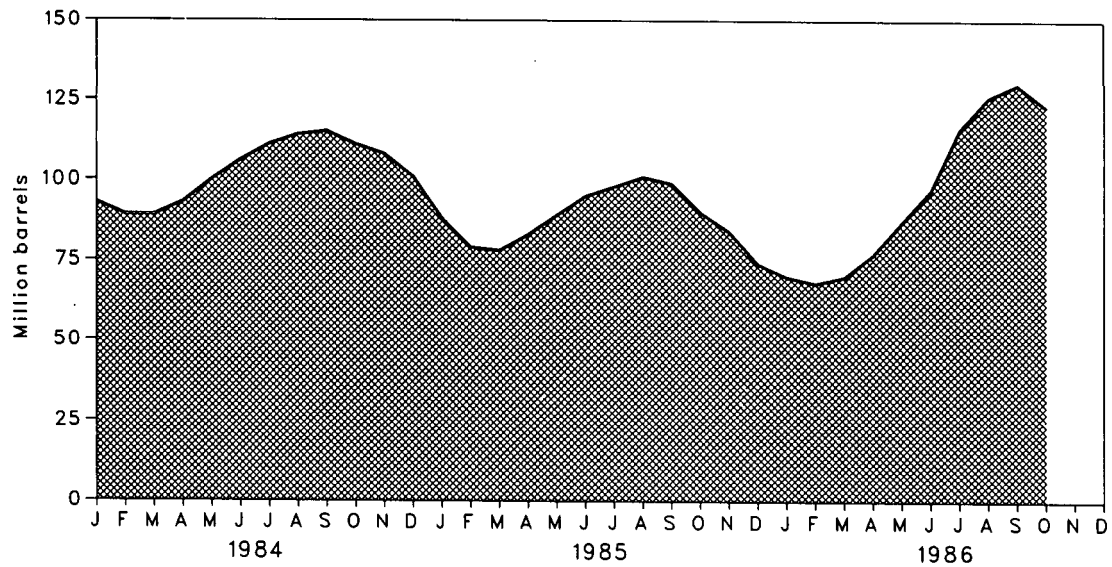
Petroleum

Liquefied Petroleum Gases Supply and Disposition

Product Supplied, Total Production, and Imports



Ending Stocks



Petroleum

Liquefied Petroleum Gases¹ Supply and Disposition

| | | Supply | | | Disposition | | | Ending Stocks ² |
|-------------|----------------|--------------------------|------------|-------------------------------|-----------------|-----------|------------------|----------------------------|
| | | Total Production | Imports | Stock Withdrawal ³ | Refinery Inputs | Exports | Product Supplied | |
| | | Thousand barrels 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 | -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 | 1,571 | 244 | -18 | 289 | 42 | 1,466 | 135 |
| 1982 | Average | 1,528 | 226 | 111 | 300 | 65 | 1,499 | 94 |
| 1983 | 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 | 1,676 | 255 | 399 | 322 | 70 | 1,937 | 88 |
| | February | 1,689 | 237 | 330 | 320 | 72 | 1,865 | 79 |
| | March | 1,684 | 223 | 29 | 297 | 52 | 1,588 | 78 |
| | April | 1,696 | 156 | -143 | 262 | 78 | 1,368 | 83 |
| | May | 1,713 | 138 | -219 | 239 | 40 | 1,353 | 89 |
| | June | 1,728 | 181 | -175 | 250 | 51 | 1,432 | 95 |
| | July | 1,713 | 131 | -107 | 249 | 68 | 1,420 | 98 |
| | August | 1,710 | 153 | -98 | 277 | 80 | 1,409 | 101 |
| | September | 1,667 | 132 | 61 | 321 | 29 | 1,510 | 99 |
| | October | 1,669 | 209 | 304 | 340 | 47 | 1,794 | 90 |
| | November | 1,716 | 188 | 192 | 387 | 88 | 1,620 | 84 |
| | December | 1,786 | 239 | 337 | 386 | 75 | 1,901 | 74 |
| | Average | 1,704 | 187 | 75 | 304 | 62 | 1,599 | |
| 1986 | January | 1,874 | 277 | 75 | 382 | 47 | 1,797 | 70 |
| | February | 1,850 | 208 | 98 | 330 | 75 | 1,752 | 68 |
| | March | 1,726 | 199 | -90 | 252 | 47 | 1,536 | 70 |
| | April | 1,708 | 134 | -203 | 259 | 33 | 1,347 | 77 |
| | May | 1,759 | 189 | -339 | 265 | 40 | 1,305 | 87 |
| | June | 1,721 | 253 | -348 | 230 | 25 | 1,371 | 97 |
| | July | 1,734 | 303 | -600 | 203 | 50 | 1,184 | 116 |
| | August | 1,689 | 271 | -326 | 243 | 53 | 1,338 | 126 |
| | September | 1,651 | 282 | -141 | 291 | 27 | 1,474 | 130 |
| | October | 1,644 | 234 | 247 | 332 | 26 | 1,767 | 123 |
| | Average | 1,735 | 235 | -165 | 278 | 42 | 1,485 | |

¹Includes ethane, propane, normal butane, and isobutane.

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.

Petroleum

Other Petroleum Products¹ Supply and Disposition

| | | Supply | | | Disposition | | | Ending Stocks ² |
|------|-----------|--------------------------|---------|-------------------------------|-----------------|---------|------------------|----------------------------|
| | | Total Production | Imports | Stock Withdrawal ³ | Refinery Inputs | Exports | Product Supplied | |
| | | Thousand barrels 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 | 218 |
| 1975 | Average | 3,424 | 277 | -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 | 247 |
| 1981 | Average | 3,739 | 226 | 46 | 723 | 199 | 3,088 | 282 |
| 1982 | Average | 3,453 | 334 | 80 | 787 | 211 | 2,869 | 253 |
| 1983 | Average | 3,460 | 411 | 6 | 712 | 242 | 2,923 | 256 |
| 1984 | January | 3,376 | 517 | -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 |
| | May | 3,683 | 662 | -105 | 764 | 257 | 3,218 | 277 |
| | June | 3,869 | 541 | 391 | 1,232 | 343 | 3,223 | 265 |
| | July | 3,864 | 587 | 277 | 1,022 | 238 | 3,467 | 257 |
| | August | 3,848 | 569 | 41 | 637 | 172 | 3,650 | 256 |
| | September | 3,759 | 536 | -50 | 699 | 238 | 3,308 | 257 |
| | October | 3,585 | 632 | 10 | 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 | |
| 1985 | January | 3,258 | 400 | -88 | 556 | 223 | 2,815 | 243 |
| | February | 3,422 | 498 | -101 | 707 | 204 | 2,910 | 245 |
| | March | 3,464 | 550 | -421 | 633 | 190 | 2,769 | 259 |
| | April | 3,618 | 628 | -7 | 836 | 245 | 3,158 | 259 |
| | May | 3,721 | 837 | -113 | 991 | 191 | 3,263 | 262 |
| | June | 3,924 | 612 | 80 | 995 | 261 | 3,360 | 260 |
| | July | 3,994 | 658 | 19 | 975 | 241 | 3,455 | 259 |
| | August | 4,087 | 640 | 372 | 1,328 | 218 | 3,549 | 248 |
| | September | 3,878 | 529 | -10 | 823 | 274 | 3,299 | 248 |
| | October | 3,810 | 548 | 9 | 861 | 250 | 3,255 | 248 |
| | November | 3,772 | 612 | -183 | 906 | 277 | 3,016 | 253 |
| | December | 3,658 | 542 | 226 | 1,006 | 305 | 3,118 | 246 |
| | Average | 3,721 | 588 | -17 | 886 | 240 | 3,166 | |
| 1986 | January | 3,805 | 498 | -165 | 925 | 311 | 2,899 | 252 |
| | February | 3,759 | 377 | -197 | 768 | 270 | 2,901 | 258 |
| | March | 3,646 | 440 | 7 | 822 | 208 | 3,066 | 257 |
| | April | 3,658 | 576 | -108 | 759 | 369 | 2,998 | 261 |
| | May | 3,970 | 600 | -68 | 803 | 298 | 3,400 | 263 |
| | June | 4,138 | 655 | -130 | 855 | 263 | 3,548 | 267 |
| | July | 4,093 | 555 | 128 | 1,084 | 357 | 3,334 | 263 |
| | August | 4,177 | 537 | 345 | 1,112 | 301 | 3,647 | 252 |
| | September | 4,160 | 552 | 14 | 865 | 278 | 3,581 | 252 |
| | October | 3,923 | 553 | -120 | 712 | 375 | 3,273 | 255 |
| | Average | 3,934 | 535 | -27 | 872 | 303 | 3,267 | |

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 described 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. That discrepancy 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. The imbalance between supply and disposition of unfinished oils would then be subtracted from the production of distillate and residual fuel oils. Two-thirds of that difference was subtracted from distillate and one-third from residual. Beginning in January 1981, the EIA modified its survey forms 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 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 the "Other Petroleum Products Supply and Disposition" table, is now reported on a component basis (ethane, propane, normal butane, isobutane, and pentanes plus). Most of those 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 millions of 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 millions of barrels, would have been 488 (Total) and 380 (Other Primary).

Sources

- 1973 through 1976: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, 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 1985: EIA, *Petroleum Supply Annual*.
- January 1986 through October 1986: Detailed statistics in appropriate issues of the *Petroleum Supply Monthly* (except domestic crude oil production).
- November 1986: Estimates based on EIA weekly data (except domestic crude oil production).
- January 1985 through November 1986: Domestic crude oil production estimate based on historical statistics from State conservation agencies and the U.S. Geological Survey.

Natural Gas

Total dry natural gas production in the United States during October 1986 was an estimated 1.3 trillion cubic feet, 2.2 percent less than in October 1985.

Consumption of natural and supplemental gas in October 1986 was an estimated 1.2 trillion cubic feet. That level was 1.3 percent higher than in October 1985.

Deliveries to residential consumers during September 1986 (latest data available) were 133 billion cubic feet, 3.1 percent higher than in September 1985. Total deliveries to industrial consumers during September 1986 were an estimated 351 billion cubic feet, 17.8 percent lower than in September 1985.

Imports of natural gas in October 1986 were an estimated 55 billion cubic feet, 27.6 percent lower than in the previous October.

Stocks of working gas* in underground natural gas storage reservoirs at the end of October 1986 totaled 3,196 billion cubic feet. That total was slightly below stocks available 1 year earlier. Net injections into storage during October 1986 were 133 billion cubic feet, 3.9 percent more than during the previous October.

*Gas available for withdrawal.

Natural Gas

Production Summary

| | | Gross Wet Gas Withdrawals ¹ | Used for Repressuring ² | Nonhydro- carbon Gas Removed ³ | Vented and Flared | Marketed Production (Wet) ⁴ | Extraction Loss ⁵ | Total Dry Gas Production ⁵ |
|--------------------|---------------------|--|---------------------------------------|---|-------------------------|--|---------------------------------|---|
| Billion cubic feet | | | | | | | | |
| 1973 | Total | 24,067 | 1,171 | NA | 248 | ⁶ 22,648 | 917 | ⁶ 21,731 |
| 1974 | Total | 22,850 | 1,080 | NA | 169 | ⁶ 21,601 | 887 | ⁶ 20,713 |
| 1975 | Total | 21,104 | 861 | NA | 134 | ⁶ 20,109 | 872 | ⁶ 19,236 |
| 1976 | Total | 20,944 | 859 | NA | 132 | ⁶ 19,952 | 854 | ⁶ 19,098 |
| 1977 | Total | 21,097 | 935 | NA | 137 | ⁶ 20,025 | 863 | ⁶ 19,163 |
| 1978 | Total | 21,309 | 1,181 | NA | 153 | ⁶ 19,974 | 852 | ⁶ 19,122 |
| 1979 | Total | 21,883 | 1,245 | NA | 167 | ⁶ 20,471 | 808 | ⁶ 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 | Total | 18,597 | 1,458 | 222 | 95 | 16,822 | 790 | 16,033 |
| 1984 | January | 1,887 | 135 | 21 | 9 | 1,723 | 79 | 1,644 |
| | February | 1,650 | 127 | 17 | 8 | 1,497 | 69 | 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 | 1,653 | 137 | 19 | 9 | 1,487 | 68 | 1,419 |
| | September | 1,574 | 132 | 16 | 9 | 1,417 | 65 | 1,352 |
| | October | 1,661 | 143 | 19 | 9 | 1,490 | 69 | 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 | 1,826 | 154 | 29 | 8 | 1,636 | 77 | 1,559 |
| | February | 1,667 | 148 | 26 | 7 | 1,486 | 70 | 1,416 |
| | March | 1,684 | 165 | 28 | 7 | 1,484 | 71 | 1,413 |
| | April | 1,595 | 163 | 27 | 8 | 1,397 | 66 | 1,331 |
| | May | 1,579 | 161 | 27 | 8 | 1,383 | 66 | 1,317 |
| | June | 1,521 | 154 | 23 | 8 | 1,336 | 63 | 1,273 |
| | July | 1,565 | 161 | 27 | 8 | 1,368 | 65 | 1,303 |
| | August | 1,554 | 153 | 27 | 8 | 1,365 | 65 | 1,300 |
| | September | 1,530 | 159 | 25 | 8 | 1,338 | 64 | 1,274 |
| | October | 1,589 | 160 | 27 | 8 | 1,394 | 66 | 1,328 |
| | November | 1,599 | 164 | 29 | 8 | 1,398 | 66 | 1,332 |
| | December | 1,825 | 173 | 32 | 8 | 1,613 | 76 | 1,537 |
| | Total | 19,534 | 1,915 | 326 | 95 | 17,198 | 816 | 16,382 |
| 1986 | January | 1,771 | 147 | 20 | 7 | 1,596 | 73 | 1,523 |
| | February | 1,539 | 135 | 18 | 7 | 1,379 | 63 | 1,316 |
| | March | 1,655 | 152 | 20 | 7 | 1,475 | 68 | 1,407 |
| | April | 1,495 | 138 | 19 | 6 | 1,331 | 61 | 1,270 |
| | May | 1,517 | 140 | 18 | 6 | 1,353 | 62 | 1,291 |
| | June | 1,457 | 129 | 16 | 6 | 1,305 | 60 | 1,245 |
| | July | 1,504 | 132 | 19 | 6 | 1,346 | 62 | 1,284 |
| | August | 1,495 | 134 | 18 | 6 | 1,337 | 62 | 1,275 |
| | September | <i>1,460</i> | <i>131</i> | <i>17</i> | <i>6</i> | <i>1,306</i> | <i>60</i> | <i>1,246</i> |
| | October | <i>1,521</i> | <i>135</i> | <i>18</i> | <i>6</i> | <i>1,362</i> | <i>63</i> | <i>1,299</i> |
| | Year to Date | 15,414 | 1,373 | 183 | 63 | 13,790 | 634 | 13,156 |

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.

⁵Equal to marketed production (wet) minus extraction loss.

⁶May 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 1985 are final. All other data are preliminary unless otherwise indicated.

Sources: • See the last page of this section.

Natural Gas

Supply and Disposition of Natural Gas

| | | Supply | | | | Disposition | | | | |
|--------------------|---------------------|--------------------------------|--|--|----------------------|--|---|----------------------|-------------------------------|--------------------------------------|
| | | Total Dry Gas Production | With- drawals from Storage ¹ | Supple- mental Gaseous Fuels ² | Imports ² | Total Supply/ Disposition ³ | Additions to Storage ¹ | Exports ² | Consump- tion ² | Un- accounted for ⁵ |
| Billion cubic feet | | | | | | | | | | |
| 1973 | Total | 21,731 | 1,533 | NA | 1,033 | 24,297 | 1,974 | 77 | 22,049 | 196 |
| 1974 | Total | 20,713 | 1,701 | NA | 959 | 23,373 | 1,784 | 77 | 21,223 | 289 |
| 1975 | Total | 19,236 | 1,760 | NA | 953 | 21,949 | 2,104 | 73 | 19,538 | 235 |
| 1976 | Total | 19,098 | 1,921 | NA | 964 | 21,983 | 1,756 | 65 | 19,946 | 216 |
| 1977 | Total | 19,163 | 1,750 | NA | 1,011 | 21,924 | 2,307 | 56 | 19,521 | 41 |
| 1978 | Total | 19,122 | 2,158 | NA | 966 | 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 | 19,877 | 640 |
| 1981 | Total | 19,181 | 1,930 | 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 | 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 | 2,340 | -66 |
| | February | 1,428 | 310 | 10 | 69 | 1,817 | 61 | 5 | 1,954 | -203 |
| | March | 1,469 | 371 | 10 | 69 | 1,919 | 49 | 6 | 1,840 | 24 |
| | April | 1,438 | 102 | 8 | 71 | 1,619 | 147 | 5 | 1,598 | -131 |
| | May | 1,434 | 31 | 7 | 66 | 1,538 | 259 | 5 | 1,347 | -73 |
| | June | 1,389 | 28 | 7 | 59 | 1,483 | 329 | 3 | 1,176 | -25 |
| | July | 1,440 | 29 | 7 | 55 | 1,531 | 353 | 5 | R1,152 | 21 |
| | August | 1,419 | 31 | 8 | 54 | 1,512 | 324 | 5 | 1,154 | 29 |
| | September | 1,352 | 31 | 8 | 57 | 1,448 | 295 | 5 | 1,085 | 63 |
| | October | 1,421 | 48 | 8 | 67 | 1,544 | 247 | 5 | 1,180 | R112 |
| | November | 1,419 | 231 | 11 | 84 | 1,745 | 85 | 5 | 1,393 | 262 |
| | December | 1,539 | 309 | 13 | 94 | 1,955 | 94 | 5 | 1,732 | 124 |
| | Total | 17,392 | 2,098 | 110 | 843 | 20,443 | 2,295 | 55 | 17,951 | 643 |
| 1985 | January | 1,559 | 661 | 13 | 104 | 2,337 | 35 | 5 | R2,101 | R196 |
| | February | 1,416 | 438 | 9 | 99 | 1,962 | 48 | 5 | R2,148 | R-239 |
| | March | 1,413 | 214 | 8 | 90 | 1,725 | 98 | 6 | R1,719 | R-98 |
| | April | 1,331 | 94 | 11 | 76 | 1,512 | 209 | 5 | 1,447 | -149 |
| | May | 1,317 | 25 | 11 | 73 | 1,426 | 303 | 2 | 1,148 | -27 |
| | June | 1,273 | 33 | 10 | 65 | 1,381 | 262 | 5 | 1,077 | 37 |
| | July | 1,303 | 45 | 12 | 59 | 1,419 | 312 | 6 | R1,120 | R-19 |
| | August | 1,300 | 50 | 12 | 61 | 1,423 | 279 | 5 | R1,118 | R21 |
| | September | 1,274 | 20 | 9 | 63 | 1,366 | 271 | 5 | R1,041 | R49 |
| | October | 1,328 | 74 | 12 | 76 | 1,490 | 201 | 5 | 1,148 | 136 |
| | November | 1,332 | 208 | 9 | 77 | 1,626 | 99 | 5 | R1,313 | R209 |
| | December | 1,537 | 534 | 11 | 106 | 2,188 | 47 | 5 | R1,903 | R233 |
| | Total | 16,382 | 2,397 | 126 | 950 | 19,855 | 2,163 | 55 | 17,281 | 354 |
| 1986 | January | 1,523 | 441 | 16 | 98 | 2,078 | 49 | 5 | 2,110 | -86 |
| | February | 1,316 | 400 | 14 | 73 | 1,803 | 59 | 5 | 1,857 | -118 |
| | March | 1,407 | 233 | 15 | 54 | 1,709 | 121 | 5 | 1,701 | -118 |
| | April | 1,270 | 81 | 12 | 43 | 1,406 | 152 | 4 | 1,319 | -69 |
| | May | 1,291 | 50 | 13 | 48 | 1,402 | 278 | 4 | 1,149 | -29 |
| | June | 1,245 | 27 | 13 | 46 | 1,331 | 270 | 5 | 1,022 | 34 |
| | July | 1,284 | 31 | 13 | 44 | 1,372 | 286 | 4 | 1,020 | 62 |
| | August | 1,275 | 27 | 13 | 47 | 1,362 | 287 | 5 | 981 | 89 |
| | September | 1,246 | 27 | 13 | 50 | 1,336 | 246 | 4 | R933 | R153 |
| | October | 1,299 | 52 | 13 | 55 | 1,419 | 185 | 5 | 1,163 | 66 |
| | Year to Date | 13,156 | 1,369 | 135 | 558 | 15,218 | 1,933 | 46 | 13,255 | -16 |

¹Monthly and annual data for 1980 through 1985 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.

⁵See Note 7 on the last two pages of this section.

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.

• Italics denote estimated data. Data for 1973 through 1985 are final. All other data are preliminary unless otherwise indicated.

Sources: • See the last page of this section.

Natural Gas

Natural Gas¹ Consumption

| | | Delivered to Consumers | | | | | | | Total Consumption |
|------|---------------------|------------------------|---------------|--------------|-------------------------|--------------|--------------------|---------------|-------------------|
| | | Lease and Plant Fuel | Pipeline Fuel | Residential | Commercial ² | Industrial | Electric Utilities | Total | |
| | | 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 | 19,077 | 21,223 |
| 1975 | Total | 1,396 | 583 | 4,924 | 2,508 | 6,968 | 3,158 | 17,558 | 19,538 |
| 1976 | Total | 1,634 | 548 | 5,051 | 2,668 | 6,964 | 3,081 | 17,764 | 19,946 |
| 1977 | 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 | Total | 978 | 490 | 4,381 | 2,433 | 5,643 | 2,911 | 15,367 | 16,835 |
| 1984 | January | 102 | 55 | 886 | 437 | 645 | 215 | 2,183 | 2,340 |
| | February | 88 | 44 | 700 | 354 | 581 | 187 | 1,822 | 1,954 |
| | March | 91 | 46 | 605 | 311 | 581 | 206 | 1,703 | 1,840 |
| | April | 89 | 41 | 463 | 243 | 542 | 220 | 1,468 | 1,598 |
| | May | 89 | 42 | 287 | 160 | 504 | 265 | 1,216 | 1,347 |
| | June | 86 | 42 | 170 | 108 | 472 | 298 | 1,048 | 1,176 |
| | July | 89 | 44 | 128 | 97 | 445 | 349 | 1,019 | R1,152 |
| | August | 88 | 43 | 118 | 98 | 457 | 350 | 1,023 | 1,154 |
| | September | 84 | 40 | 127 | 101 | 442 | 291 | 961 | 1,085 |
| | October | 88 | 42 | 182 | 128 | 470 | 270 | 1,050 | 1,180 |
| | November | 88 | 42 | 323 | 193 | 502 | 245 | 1,263 | 1,393 |
| | December | 95 | 48 | 566 | 294 | 512 | 217 | 1,589 | 1,732 |
| | Total | 1,077 | 529 | 4,555 | 2,524 | 6,154 | 3,111 | 16,345 | 17,951 |
| 1985 | January | 91 | 54 | R743 | R372 | 615 | 226 | R1,956 | R2,101 |
| | February | 84 | 46 | R837 | R412 | 566 | 203 | R2,018 | R2,148 |
| | March | 83 | 42 | R566 | R290 | 531 | 207 | R1,594 | R1,719 |
| | April | 79 | 39 | 397 | 206 | 492 | 234 | 1,329 | 1,447 |
| | May | 78 | 40 | 212 | 128 | 454 | 236 | 1,030 | 1,148 |
| | June | 75 | 38 | 157 | 100 | 425 | 282 | 964 | 1,077 |
| | July | 77 | 40 | 130 | 96 | R440 | 337 | R1,003 | R1,120 |
| | August | 77 | 39 | 119 | R93 | R435 | 355 | R1,002 | R1,118 |
| | September | 75 | 37 | R129 | 98 | 427 | 275 | R929 | R1,041 |
| | October | 78 | 39 | 190 | 125 | 466 | 250 | 1,031 | 1,148 |
| | November | 79 | 39 | R306 | 180 | 479 | 230 | R1,195 | R1,313 |
| | December | 91 | 51 | R647 | R333 | 571 | 210 | R1,761 | R1,903 |
| | Total | 966 | 504 | 4,433 | 2,432 | 5,901 | 3,044 | 15,811 | 17,281 |
| 1986 | January | 90 | 49 | 805 | 395 | 587 | 184 | 1,971 | 2,110 |
| | February | 77 | 43 | 698 | 348 | 534 | 157 | 1,737 | 1,857 |
| | March | 83 | 42 | 592 | 294 | 520 | 170 | 1,576 | 1,701 |
| | April | 75 | 36 | 371 | 191 | 449 | 197 | 1,208 | 1,319 |
| | May | 76 | 38 | 242 | 134 | 428 | 231 | 1,035 | 1,149 |
| | June | 73 | 37 | 158 | 99 | 395 | 260 | 912 | 1,022 |
| | July | 76 | 38 | 129 | 89 | 387 | 301 | 906 | 1,020 |
| | August | 75 | 38 | 120 | 91 | 381 | 276 | 868 | 981 |
| | September | 73 | 36 | 133 | 93 | 351 | 246 | 824 | 933 |
| | Year to Date | 698 | 357 | 3,248 | 1,734 | 4,032 | 2,022 | 11,037 | 12,092 |

¹Includes supplemental gaseous fuels.

²Includes deliveries to local, State, and Federal agencies engaged in nonmanufacturing activities.

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 for 1973 through December 1985 are final. All other data are preliminary unless otherwise indicated.

Sources: • See the last page of this section.

Natural Gas

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 ¹ | Volume | Percent | Injections | Withdrawals | Net ² |
| Volumes in billion cubic feet | | | | | | | | | |
| 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 | Total | 3,847 | 2,595 | 6,442 | -476 | -15.5 | 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 | 3,827 | 1,843 | 5,670 | -379 | -17.1 | 254 | 30 | 244 |
| | June | 3,828 | 2,141 | 5,969 | -313 | -12.7 | 323 | 27 | 296 |
| | July | 3,829 | 2,456 | 6,285 | -239 | -8.9 | 346 | 28 | 317 |
| | August | 3,829 | 2,740 | 6,569 | -168 | -5.8 | 318 | 30 | 288 |
| | September | 3,829 | 2,996 | 6,825 | -144 | -4.6 | 289 | 30 | 259 |
| | October | 3,837 | 3,175 | 7,011 | -95 | -2.9 | 242 | 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 | 32 | 642 | -610 |
| | February | 3,841 | 1,853 | 5,694 | -23 | -1.2 | 47 | 438 | -391 |
| | March | 3,835 | 1,743 | 5,578 | 171 | 10.8 | 98 | 217 | -119 |
| | April | 3,831 | 1,859 | 5,691 | 239 | 14.8 | 204 | 91 | 113 |
| | May | 3,837 | 2,129 | 5,965 | 286 | 15.5 | 294 | 23 | 272 |
| | June | 3,839 | 2,351 | 6,191 | 211 | 9.8 | 252 | 31 | 221 |
| | July | 3,849 | 2,605 | 6,454 | 149 | 6.1 | 309 | 45 | 263 |
| | August | 3,849 | 2,832 | 6,681 | 92 | 3.4 | 278 | 50 | 228 |
| | September | 3,849 | 3,081 | 6,930 | 85 | 2.8 | 272 | 20 | 253 |
| | October | 3,851 | 3,204 | 7,055 | 29 | 0.9 | 199 | 71 | 128 |
| | November | 3,847 | 3,086 | 6,933 | 71 | 2.4 | 99 | 202 | -103 |
| | December | 3,842 | 2,607 | 6,448 | -270 | -9.4 | 44 | 529 | -485 |
| | Total | | | | | | 2,128 | 2,359 | -231 |
| 1986 | January | 3,842 | 2,214 | 6,056 | -28 | -1.3 | 49 | 441 | -392 |
| | February | 3,842 | 1,872 | 5,714 | 19 | 1.0 | 59 | 400 | -341 |
| | March | 3,838 | 1,764 | 5,602 | 21 | 1.2 | 121 | 233 | -112 |
| | April | 3,834 | 1,838 | 5,673 | -21 | -1.1 | 152 | 81 | 71 |
| | May | 3,830 | 2,071 | 5,901 | -58 | -2.7 | 278 | 50 | 228 |
| | June | 3,829 | 2,315 | 6,144 | -37 | -1.6 | 270 | 27 | 244 |
| | July | 3,841 | 2,558 | 6,400 | -47 | -1.8 | 286 | 31 | 256 |
| | August | 3,838 | 2,822 | 6,660 | -10 | -0.3 | 287 | 27 | 261 |
| | September | 3,838 | 3,042 | 6,880 | -40 | -1.3 | 246 | 27 | 219 |
| | October | 3,839 | 3,196 | 7,035 | -8 | -0.3 | 185 | 52 | 133 |

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; 1984—8,043; and 1985—8,087. Current total capacity is 8,130.

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.

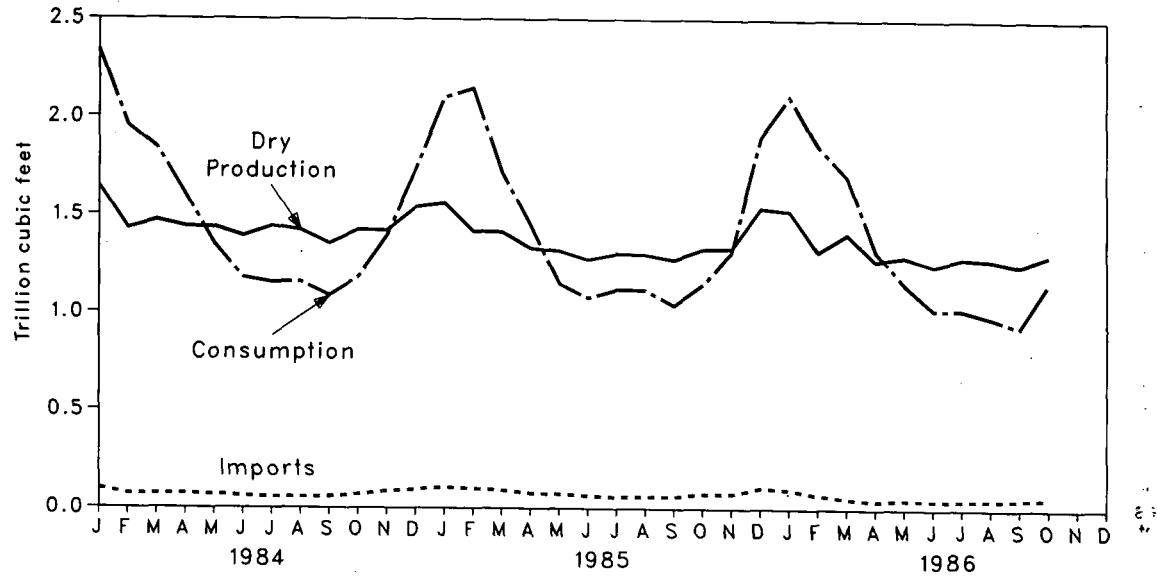
• Data for 1978 through 1985 are final. All other data are preliminary unless otherwise indicated.

Sources: • See the last page of this section.

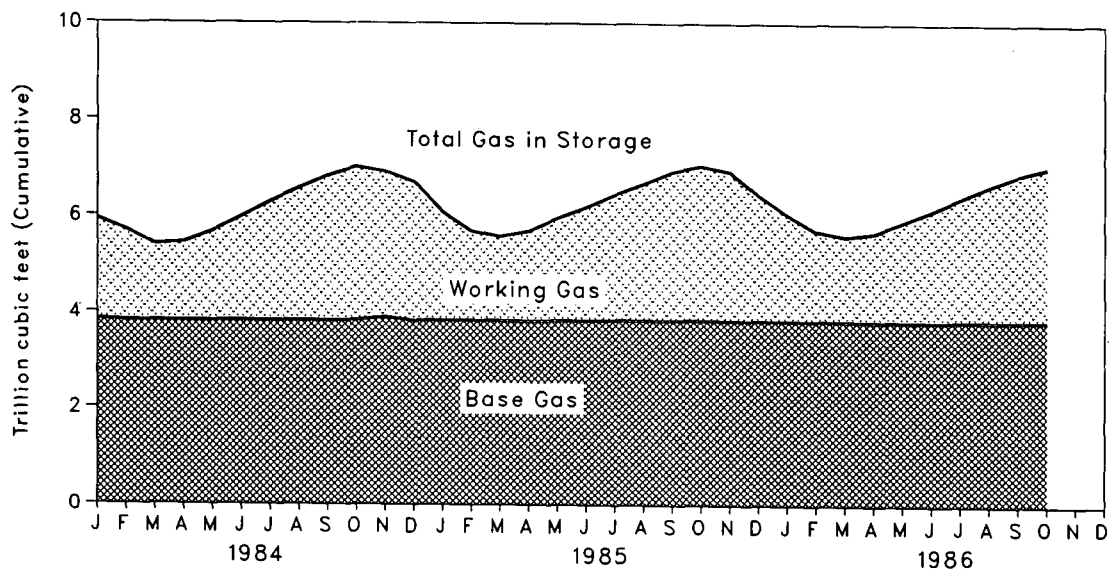
Natural Gas

Overview

Consumption, Dry Production, and Imports



Gas in Storage at End of Period



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 1985*. These data are not available for periods prior to 1980. For 1985, of the 32 producing States, 24 reported data on nonhydrocarbon gases removed. These 24 States accounted for 59 percent of total 1985 gross withdrawals. In addition, gross withdrawals data from two States, which together accounted for 37 percent of the 1985 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 1985*.

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 1985* 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 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 1985*. 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 monthly supplemental gaseous fuels figure.

5. Imports and Exports: The United States imports natural gas via pipeline from Mexico and Canada, and liquefied natural gas (until September 1985) via tanker from Algeria. The United States exports natural gas via pipeline to Mexico and Canada 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 1982, 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 1985 include both underground and liquefied natural gas (LNG) storage. Underground storage

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

Notes and Sources for the Natural Gas Section (continued)

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.

Sources

Production: 1973 through 1985: Energy Information Administration (EIA), *Natural Gas Annual 1985*; January 1986 forward: State reports to the Interstate Oil Compact Commission, 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.

Extraction Loss, Consumption, and Unaccounted For: 1973 through 1985: EIA, *Natural Gas Annual 1985*; January 1986 forward: EIA computations.

Withdrawals from and Additions to Storage: 1973 through 1985: EIA, *Natural Gas Annual 1985*; January 1986

forward: Form FPC-8 and Form EIA-191, "Underground Gas Storage Report."

Supplemental Gaseous Fuels: 1980 through 1985: EIA, *Natural Gas Annual 1985*; January 1986 forward: EIA computations.

Imports and Exports: 1973 through 1985: Form FPC-14, "Imports and Exports of Natural Gas"; January 1986 forward: EIA computations.

End-Use Consumption: • All data except electric utility—1973 through 1985: EIA, *Natural Gas Annual, 1985*; January 1986 forward: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and EIA 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."

Oil and Gas Resource Development

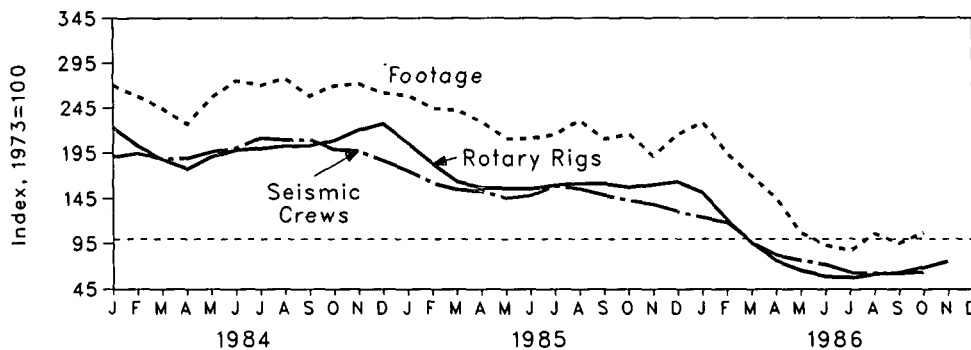
In October 1986, the 158 crews engaged in seismic exploration were 55.7 percent fewer than the 357 crews in October 1985. The 22 marine vessels in October 1986 were 51.1 percent fewer than the 45 vessels in October 1985, and the 136 land crews were 56.4 percent fewer than the 312 crews working in October 1985. For the first time since July 1985, the total number of crews increased from the number in the previous month during October 1986. The three additional crews represented a 1.9-percent increase.

The November 1986 rotary rig count of 899 was 53.0 percent fewer than the 1,912 rigs active in November 1985, but 9.8 percent more than the rigs in October 1986. The 79 rigs operating offshore in November 1986 were 57.8 percent fewer than the 187 rigs operating offshore in November 1985. The 820 rigs operating

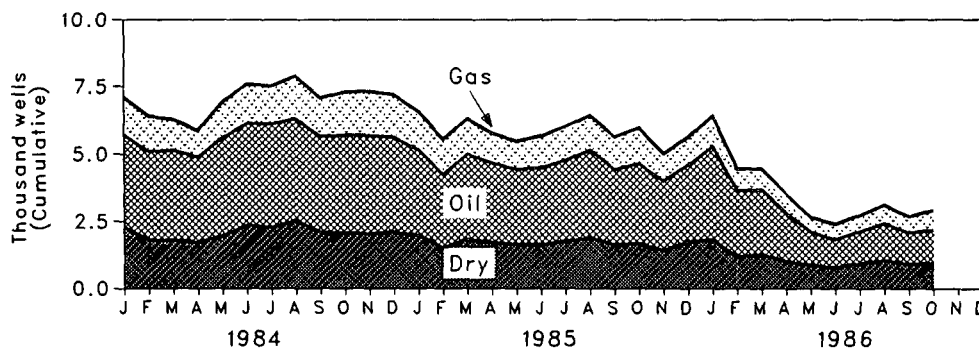
onshore were 52.5 percent fewer than the 1,725 rigs operating onshore in November 1985.

Exploratory and development well completions during October 1986 were an estimated 2,940, 50.7 percent less than the 5,960 completions estimated in October 1985, but 9.3 percent more than completions in September 1986. Oil well completions were an estimated 1,230, 58.4 percent lower than the 2,960 oil well completions in the previous October. The 740 gas well completions in October 1986 were 44.4 percent lower than the October 1985 number of 1,330. Total footage drilled in October 1986 was 12.6 million feet, a decrease of 50.6 percent compared with the 25.6 million feet drilled in October 1985, but an increase of 15.8 percent from the footage in September 1986.

Seismic Crews and Rotary Rigs in Operation, and Footage Drilled



Exploratory and Development Well Completions



Oil and Gas Resource Development

Seismic Crews and Rotary Rigs

| | | Crews Engaged in Seismic Exploration | | | Rotary Rigs in Operation ¹ | | | |
|------|-----------|--------------------------------------|-----------|------------|---------------------------------------|------------|--------------|--------------|
| | | Offshore | Onshore | Total | Offshore | Onshore | Total | |
| | | Monthly average | | | 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 | Average | 47 | 426 | 473 | 199 | 2,033 | 2,232 | |
| 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 | 497 | 223 | 2,269 | 2,492 | |
| | November | 49 | 444 | 493 | 232 | 2,397 | 2,629 | |
| | December | 52 | 414 | 466 | 242 | 2,471 | 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 | 195 | 1,684 | 1,879 | |
| | November | 41 | 305 | 346 | 187 | 1,725 | 1,912 | |
| | December | 39 | 287 | 326 | 190 | 1,760 | 1,950 | |
| | | Average | 45 | 333 | 378 | 206 | 1,774 | 1,980 |
| 1986 | January | 39 | 271 | 310 | 175 | 1,635 | 1,810 | |
| | February | 39 | 256 | 295 | 164 | 1,280 | 1,444 | |
| | March | 28 | 212 | 240 | 132 | 1,007 | 1,139 | |
| | April | 20 | 185 | 205 | 112 | 794 | 906 | |
| | May | 19 | 172 | 191 | 94 | 687 | 781 | |
| | June | 18 | 162 | 180 | 73 | 632 | 705 | |
| | July | 20 | 138 | 158 | 65 | 621 | 686 | |
| | August | 19 | 137 | 156 | 65 | 665 | 730 | |
| | September | 24 | 131 | 155 | 74 | 681 | 755 | |
| | October | 22 | 136 | 158 | 80 | 739 | 819 | |
| | November | NA | NA | NA | 79 | 820 | 899 | |
| | | Average² | 25 | 180 | 205 | 100 | 864 | 964 |

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.

Oil and Gas Resource Development

Exploratory and Development Wells and Footage Drilled

| | | Exploratory and Development Well Completions ¹ | | | | Total Footage ¹ |
|------|---------------------|--|---------------|---------------|---------------|----------------------------|
| | | Oil | Gas | Dry | Total | Million feet |
| | | Thousand wells | | | | |
| 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 | Total | 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 | Total | 36.70 | 14.34 | 23.30 | 74.35 | 312.90 |
| 1984 | January | 3.44 | 1.39 | 2.29 | 7.12 | 31.97 |
| | February | 3.28 | 1.31 | 1.81 | 6.40 | 28.58 |
| | March | 3.34 | 1.14 | 1.80 | 6.28 | 28.91 |
| | April | 3.17 | 0.99 | 1.72 | 5.88 | 25.98 |
| | May | 3.62 | 1.32 | 1.97 | 6.92 | 30.36 |
| | June | 3.77 | 1.46 | 2.36 | 7.59 | 31.67 |
| | July | 3.83 | 1.41 | 2.29 | 7.54 | 32.00 |
| | August | 3.77 | 1.58 | 2.53 | 7.87 | 32.90 |
| | September | 3.56 | 1.42 | 2.09 | 7.07 | 29.58 |
| | October | R3.63 | R1.58 | R2.08 | R7.28 | 31.93 |
| | November | 3.65 | 1.63 | R2.04 | R7.32 | R31.13 |
| | December | 3.51 | 1.57 | R2.11 | R7.20 | R31.01 |
| | Total | R42.57 | R16.80 | R25.09 | R84.46 | R366.02 |
| 1985 | January | 3.17 | 1.43 | 1.98 | 6.58 | 30.67 |
| | February | 2.73 | 1.30 | 1.52 | 5.56 | 26.17 |
| | March | 3.16 | 1.30 | 1.84 | 6.30 | 28.70 |
| | April | 2.95 | 1.11 | 1.72 | 5.77 | 26.34 |
| | May | 2.79 | 1.04 | 1.65 | 5.48 | 24.95 |
| | June | 2.85 | 1.18 | 1.64 | 5.67 | 24.18 |
| | July | 3.01 | 1.25 | 1.77 | 6.03 | 25.50 |
| | August | 3.26 | 1.28 | 1.89 | 6.44 | 27.35 |
| | September | 2.79 | 1.21 | 1.64 | 5.64 | 24.09 |
| | October | R2.96 | R1.33 | R1.68 | R5.96 | R25.58 |
| | November | 2.57 | 1.01 | 1.43 | 5.00 | 21.92 |
| | December | 2.85 | 1.04 | 1.75 | 5.64 | 25.53 |
| | Total | R35.09 | R14.47 | R20.51 | R70.08 | R310.99 |
| 1986 | January | 3.45 | 1.13 | 1.82 | 6.40 | 27.12 |
| | February | 2.46 | 0.80 | 1.19 | 4.44 | 20.80 |
| | March | 2.43 | 0.77 | 1.26 | 4.46 | 20.11 |
| | April | R1.79 | R0.70 | R1.03 | R3.52 | R16.63 |
| | May | 1.23 | 0.56 | 0.87 | 2.65 | 12.61 |
| | June | 1.03 | 0.58 | 0.80 | 2.41 | 10.68 |
| | July | 1.19 | 0.60 | 0.95 | 2.75 | 11.06 |
| | August | 1.38 | 0.69 | R1.05 | R3.11 | R12.50 |
| | September | 1.16 | 0.61 | 0.92 | 2.69 | 10.91 |
| | October | 1.23 | 0.74 | 0.97 | 2.94 | 12.63 |
| | Year to Date | 17.35 | 7.17 | 10.85 | 35.36 | 155.06 |

¹Data exclude service wells and stratigraphic and core tests.

R=Revised data.

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

• Totals and averages may not equal sum of components due to subsequent revisions and independent rounding.

• 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.

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 MER, 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. Unscheduled 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 published in their bulletins, *Geophysics* and *Leading Edge*.
- Rotary Rigs: Hughes Tool Company, "Rotary Rigs Running—by State."
- Wells and Footage Drilled: EIA computations based on well reports submitted to the American Petroleum Institute by Petroleum Information Corporation.

Coal

Coal production in October 1986 totaled 77.3 million short tons, 3.6 percent below the 80.2 million short tons produced in October 1985.

Electric utility coal consumption in September 1986 totaled 56.5 million short tons, 0.4 percent below the 56.8 million short tons for September 1985. The amount of coal consumed at electric utilities during the first three quarters of 1986 totaled 517.8 million short tons, a 0.7-percent decrease from the 521.2 million short tons consumed during the same period in 1985.

Electric utility coal stocks at the end of September 1986 were 151.7 million short tons, 6.9 percent less than the 163.1 million short tons of stocks at the end of September 1985. Stockpiles of coal have been low in 1986 with stocks averaging 155.2 million short tons for January through September compared to stocks averaging 167.6 million short tons for the same period in 1985.

Exports of coal in September 1986 totaled 8.2 million short tons, 1.2 percent more than the 8.1 million short tons exported during September 1985. Coal exports from January through September 1986 amounted to 65.1 million short tons, a 5.1-percent decline compared with the 68.6 million short tons exported in the same period in 1985. Metallurgical coal exports in the first 9 months of

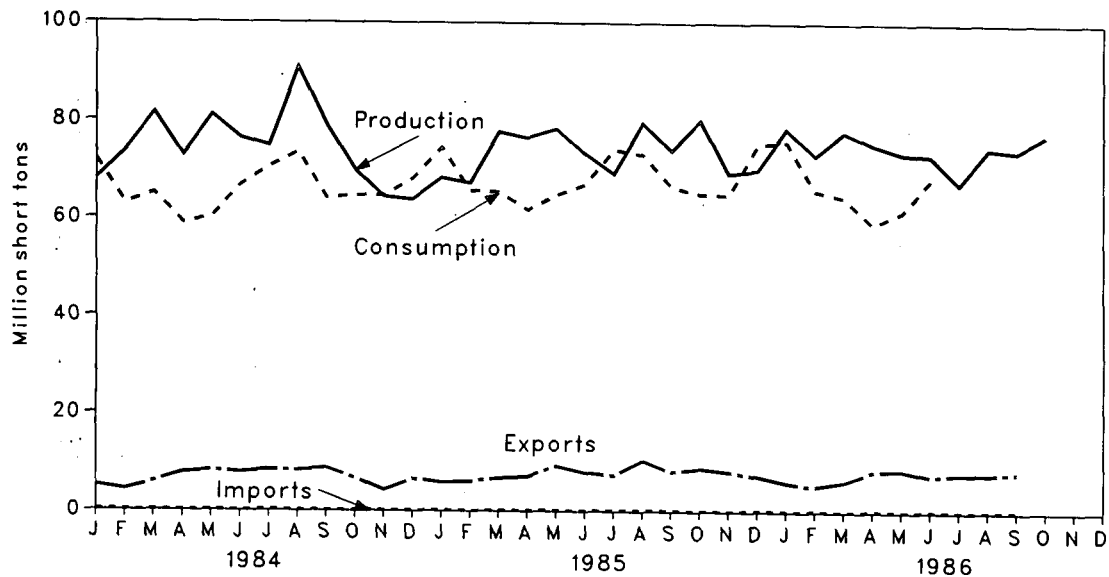
1986 totaled 42.5 million short tons, down 6.2 percent from the 45.3 million short tons in the same period 1 year earlier. Bituminous steam coal exports declined during the first 9 months of 1986 to 21.5 million short tons, a decrease of 4.0 percent from the 22.4 million short tons exported during the same period in 1985. The principal destinations of U.S. coal exports during the first three quarters of 1986 were Canada (9.8 million short tons), Japan (9.4 million short tons), Italy (8.1 million short tons), and France (4.3 million short tons). Based on an average of \$46.03 per short ton, total U.S. coal exports during the first three quarters of 1986 were valued at approximately \$3.0 billion.

Coal imports in September 1986 totaled 188,000 short tons, 3.3 percent more than the 182,000 short tons imported in September 1985. During January through September 1986, coal imports totaled 1.6 million short tons, a 10.0-percent increase from 1.5 million short tons imported during the same period in 1985. Coal imports in the first 9 months of 1986 were mainly from the Republic of South Africa (0.7 million short tons), Colombia (0.5 million short tons), and Canada (0.3 million short tons). Coal imports during the first three quarters of 1986 were valued at approximately \$57 million, based on an average value of \$35.47 per short ton.

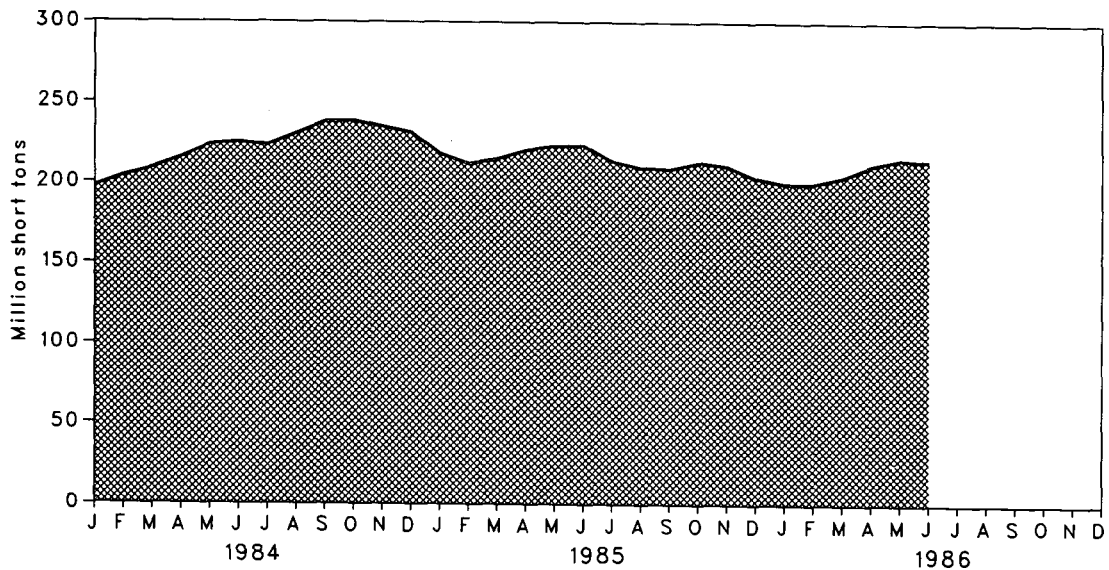
Coal

Overview

Production, Consumption, Imports, and Exports



Stocks at End of Period



Coal

Overview

| | | Production | Consumption | Imports ¹ | Exports ² | Stocks ³ |
|---------------------|---------------------------------|----------------|----------------|----------------------|----------------------|---------------------|
| Thousand 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 | 781,134 | 680,524 | 2,059 | 66,042 | 202,472 |
| 1980 | Total | 829,700 | 702,729 | 1,194 | 91,742 | 228,407 |
| 1981 | Total | 823,775 | 732,627 | 1,043 | 112,541 | 209,423 |
| 1982 | Total | 838,112 | 706,911 | 742 | 106,277 | 232,038 |
| 1983 | Total | 782,091 | 736,672 | 1,271 | 77,772 | 202,584 |
| 1984 | 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 | |
| 1985 | January | 68,261 | 74,434 | 126 | 5,817 | 218,131 |
| | February | 67,233 | 65,654 | 101 | 6,030 | 212,036 |
| | March | 77,744 | 65,397 | 103 | 6,696 | 214,825 |
| | April | 76,541 | 61,754 | 203 | 7,065 | 220,230 |
| | May | 78,382 | 64,796 | 159 | 9,231 | 222,798 |
| | June | 73,237 | 66,979 | 138 | 7,913 | 223,210 |
| | July | 69,228 | 74,162 | 177 | 7,314 | 213,600 |
| | August | 79,622 | 73,101 | 264 | 10,422 | 209,554 |
| | September | 73,977 | 66,673 | 182 | 8,095 | 208,827 |
| | October | 80,158 | 65,033 | 128 | 8,744 | 212,920 |
| | November | 69,268 | 64,865 | 111 | 8,134 | 210,656 |
| | December | 69,989 | 75,202 | 260 | 7,220 | 203,367 |
| | Total | 883,638 | 818,049 | 1,952 | 92,680 | |
| 1986 | January† | 78,543 | 75,765 | 154 | 5,935 | 199,950 |
| | February† | 72,929 | 65,814 | 209 | 5,158 | 199,882 |
| | March† | 77,829 | 64,422 | 122 | 6,152 | 203,984 |
| | April† | 75,195 | 58,873 | 214 | 8,302 | 211,111 |
| | May† | 73,432 | 61,514 | 172 | 8,545 | 215,162 |
| | June† | 72,967 | 68,150 | 190 | 7,323 | 213,854 |
| | July† | 67,257 | NA | 178 | 7,780 | NA |
| | August† | 74,475 | NA | 171 | 7,718 | NA |
| | September† | 73,920 | NA | 188 | 8,189 | NA |
| | October† | 77,262 | NA | NA | NA | NA |
| | Year to Date⁴ | 743,809 | 394,537 | 1,598 | 65,102 | |

¹Includes Puerto Rico.

²Excludes shipments of anthracite to U.S. Armed Forces overseas (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.

†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.

• See Note on the last page of this section for methodology used to calculate production, consumption, and stocks.

Sources: • See 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 | | | | |
| 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 | Total | 625,211 | 37,033 | 65,980 | 8,448 | 736,672 |
| 1984 | January | 60,225 | 3,791 | 6,858 | 1,045 | 71,919 |
| | 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 | 63,645 | 3,463 | 6,496 | 830 | 74,434 |
| | February | 55,491 | 3,282 | 6,155 | 726 | 65,654 |
| | March | 54,784 | 3,511 | 6,584 | 518 | 65,397 |
| | April | 50,903 | 3,851 | 6,236 | 764 | 61,754 |
| | May | 54,595 | 3,778 | 5,962 | 461 | 64,796 |
| | June | 57,634 | 3,284 | 5,696 | 365 | 66,979 |
| | July | 64,252 | 3,437 | 5,950 | 523 | 74,162 |
| | August | 63,076 | 3,420 | 6,111 | 494 | 73,101 |
| | September | 56,780 | 3,361 | 5,876 | 656 | 66,673 |
| | October | 54,969 | 3,165 | 6,183 | 716 | 65,033 |
| | November | 54,311 | 3,192 | 6,605 | 758 | 64,865 |
| | December | 63,402 | 3,314 | 7,517 | 969 | 75,202 |
| | Total | 693,841 | 41,056 | 75,372 | 7,779 | 818,049 |
| 1986 | January† | 64,032 | 3,508 | 7,323 | 902 | 75,765 |
| | February† | 55,049 | 3,324 | 6,652 | 789 | 65,814 |
| | March† | 53,898 | 3,555 | 6,406 | 563 | 64,422 |
| | April† | 48,114 | 3,602 | 6,354 | 803 | 58,873 |
| | May† | 51,420 | 3,533 | 6,075 | 485 | 61,514 |
| | June† | 58,892 | 3,071 | 5,804 | 383 | 68,150 |
| | July† | 68,021 | NA | NA | NA | NA |
| | August† | 61,794 | NA | NA | NA | NA |
| | September† | 56,536 | NA | NA | NA | NA |
| | Year to Date² | 517,755 | 20,593 | 38,615 | 3,925 | 394,537 |

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

| | | Consumer | | | | Producers and Distributors | Total ¹ |
|------|------------|-----------------------|----------------|---------------------|--------------------|----------------------------------|--------------------|
| | | Electric Utilities | Coke Plants | Other Industrial | Total ¹ | | |
| | | Thousand short 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 | Year | 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 | 171,095 | 9,658 | 11,904 | 192,657 | 30,461 | 223,118 |
| | August | 176,928 | 10,099 | 13,116 | 200,143 | 30,081 | 230,224 |
| | September | 183,151 | 10,541 | 14,327 | 208,019 | 29,701 | 237,720 |
| | 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 | 167,592 | 5,583 | 10,439 | 183,614 | 34,517 | 218,131 |
| | February | 162,531 | 4,999 | 9,562 | 177,092 | 34,944 | 212,036 |
| | March | 166,355 | 4,415 | 8,684 | 179,454 | 35,371 | 214,825 |
| | April | 171,695 | 4,472 | 8,750 | 184,917 | 35,313 | 220,230 |
| | May | 174,198 | 4,530 | 8,815 | 187,543 | 35,255 | 222,798 |
| | June | 174,545 | 4,587 | 8,881 | 188,013 | 35,197 | 223,210 |
| | July | 165,903 | 4,171 | 9,184 | 179,258 | 34,342 | 213,600 |
| | August | 162,825 | 3,754 | 9,488 | 176,067 | 33,487 | 209,554 |
| | September | 163,065 | 3,338 | 9,791 | 176,195 | 32,632 | 208,827 |
| | October | 166,749 | 3,365 | 10,007 | 180,121 | 32,799 | 212,920 |
| | November | 164,075 | 3,393 | 10,222 | 177,690 | 32,966 | 210,656 |
| | December | 156,376 | 3,420 | 10,438 | 170,234 | 33,133 | 203,367 |
| 1986 | January† | 152,078 | 3,302 | 9,900 | 165,280 | 34,670 | 199,950 |
| | February† | 151,157 | 3,185 | 9,332 | 163,674 | 36,208 | 199,882 |
| | March† | 154,409 | 3,067 | 8,763 | 166,239 | 37,745 | 203,984 |
| | April† | 161,076 | 3,224 | 8,965 | 173,264 | 37,847 | 211,111 |
| | May† | 164,667 | 3,380 | 9,166 | 177,213 | 37,949 | 215,162 |
| | June† | 162,899 | 3,537 | 9,367 | 175,803 | 38,051 | 213,854 |
| | July† | 150,089 | NA | NA | NA | NA | NA |
| | August† | 148,899 | NA | NA | NA | NA | NA |
| | September† | 151,737 | 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 published 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 the estimate of total weekly production, the total rail tonnage 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 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 between 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 consumption 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 proportioning reported quarterly data using the ratios of monthly to quarterly consumption in 1979, the last year in which monthly 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 directly 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. 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 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

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);

- 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*; 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."

Imports and Exports: Bureau of the Census, U.S. Department of Commerce, Monthly Reports IM-145 (Imports) and EM-522 (Exports).

Electric Utilities

During September 1986, electric utilities generated 206.6 billion kilowatthours of electricity, 2.0 percent above the September 1985 generation level. Coal-fired generation totaled 114.0 billion kilowatthours, 0.6 percent below the September 1985 level. Nuclear generation totaled 36.6 billion kilowatthours, 6.0 percent above the September 1985 level. Natural gas-fired generation was 23.4 billion kilowatthours in September 1986, 11.0 percent below the September 1985 level. Hydroelectric generation was 21.1 billion kilowatthours, 12.5 percent above the level 1 year earlier. Petroleum-fired generation totaled 10.7 billion kilowatthours, 43.6 percent above the September 1985 level.

During the first three quarters of 1986, electric utilities generated 1,881.9 billion kilowatthours of electricity, 1.0 percent higher than during the first three quarters of 1985. Comparing generation during the first three quarters of 1986 and 1985, petroleum was 40.1 percent higher in 1986, nuclear was up 5.2 percent, hydroelectric was up 3.8 percent, coal-fired generation was slightly higher, but natural gas-fired generation decreased 14.5 percent. Electricity generated from wood, waste, geothermal, wind, photovoltaic, and solar thermal energy sources during the first three quarters of 1986 was 14.2 percent higher compared with the first three quarters of 1985.

Sales of electricity to all ultimate consumers in the United States in September 1986 were 203.1 billion kilowatthours, 0.9 percent below September 1985 sales. Sales to residential consumers during September 1986 were 68.6 billion kilowatthours, 3.4 percent below the level of sales during the same month in 1985. Commercial sales were 57.7 billion kilowatthours, 3.2 percent more than the amount sold to commercial consumers in September 1985. Sales to industrial consumers totaled 69.6 billion kilowatthours in September 1986, 1.7 percent less than the 1985 figure. In September 1986, other sales totaled 7.2 billion kilowatthours, 1.2 percent below the September 1985 level.

Sales of electricity to all ultimate consumers in the United States during the first three quarters of 1986 were 1,799.0 billion kilowatthours, 2.8 percent above sales during the first three quarters of 1985. Sales to residential consumers during the first three quarters of 1986 were 630.1 billion kilowatthours, 4.2 percent above the level of sales during the same period in 1985. Commercial sales were 488.9 billion kilowatthours during the first three quarters of 1986, 6.3 percent more than the amount sold to commercial consumers in the first three quarters of 1985. Sales to industrial consumers totaled 615.0 billion kilowatthours during the first three quarters of 1986, 1.1 percent less than the 1985 figure. During the first three quarters of 1986, other sales totaled 64.9 billion kilowatthours, 2.0 percent above the level of sales during the same period in 1985.

Electric utility petroleum consumption (excluding petroleum coke) during September 1986 was 18.2 million barrels, 40.4 percent above the September 1985 level. Coal consumption during September 1986 was 56.5 million short tons, 0.4 percent below the September 1985 rate. During September 1986, electric utilities consumed 246.3 billion cubic feet of natural gas, 10.4 percent below the September 1985 consumption level.

Electric utility petroleum consumption (excluding petroleum coke) during the first three quarters of 1986 was up 36.2 percent from petroleum consumption during the first three quarters of 1985. Natural gas consumption was down 14.1 percent and coal consumption dropped 0.7 percent compared with the first three quarters of 1985.

On September 30, 1986, utility stocks of all types of coal totaled 151.7 million short tons. Those stockpiles were 6.9 percent below the level of September 30, 1985. Petroleum stocks (excluding petroleum coke) on September 30, 1986, totaled 74.1 million barrels, 1.6 percent above the level on the same date in 1985.

Electric Utilities

Net Electricity Generation by Primary Energy Source

| | | Coal | Petroleum ¹ | Natural Gas ² | Nuclear Electric Power | Hydro-electric Power | Other ³ | Total |
|-----------------------|---------------------|------------------|------------------------|--------------------------|------------------------|----------------------|--------------------|------------------|
| Million kilowatthours | | | | | | | | |
| 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 | 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 | 115,426 | 11,152 | 28,345 | 25,299 | 28,773 | 654 | 209,648 |
| | July | 121,094 | 10,397 | 33,327 | 28,284 | 27,495 | 648 | 221,245 |
| | August | 127,744 | 12,836 | 33,292 | 29,493 | 25,137 | 794 | 229,296 |
| | September | 108,862 | 7,713 | 27,839 | 29,146 | 20,911 | 728 | 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 | 129,092 | 12,077 | 22,051 | 36,186 | 27,543 | 906 | 227,856 |
| | February | 112,037 | 9,270 | 19,417 | 30,812 | 25,902 | 803 | 198,242 |
| | March | 111,391 | 7,120 | 19,848 | 31,041 | 24,640 | 930 | 194,970 |
| | April | 104,790 | 6,017 | 22,425 | 26,458 | 24,403 | 783 | 184,877 |
| | May | 111,515 | 6,859 | 22,481 | 28,697 | 26,421 | 816 | 196,790 |
| | June | 115,583 | 7,576 | 26,740 | 30,837 | 23,839 | 788 | 205,363 |
| | July | 128,880 | 8,289 | 32,191 | 35,184 | 21,293 | 885 | 226,722 |
| | August | 126,550 | 9,858 | 33,915 | 34,812 | 19,981 | 934 | 226,050 |
| | September | 114,630 | 7,435 | 26,273 | 34,508 | 18,767 | 887 | 202,499 |
| | October | 111,053 | 7,514 | 24,120 | 31,205 | 20,048 | 849 | 194,789 |
| | November | 108,815 | 7,008 | 22,453 | 30,166 | 22,954 | 1,031 | 192,427 |
| | December | 127,792 | 11,177 | 20,031 | 33,782 | 25,359 | 1,113 | 219,255 |
| | Total | 1,402,128 | 100,202 | 291,946 | 383,691 | 281,149 | 10,724 | 2,469,841 |
| 1986 | January | 130,017 | 11,088 | 17,473 | 36,219 | 21,815 | 1,123 | 217,735 |
| | February | 110,999 | 9,513 | 14,925 | 32,721 | 23,319 | 956 | 192,433 |
| | March | 110,390 | 10,070 | 16,149 | 30,773 | 28,346 | 984 | 196,711 |
| | April | 100,141 | 9,228 | 18,880 | 30,477 | 27,562 | 891 | 187,180 |
| | May | 105,889 | 10,438 | 21,947 | 31,924 | 27,244 | 904 | 198,346 |
| | June | 120,154 | 11,563 | 24,766 | 31,334 | 26,230 | 974 | 215,022 |
| | July | 136,654 | 16,296 | 28,711 | 35,894 | 24,073 | 1,045 | 242,673 |
| | August | 123,618 | 15,466 | 26,350 | 37,483 | 21,183 | 1,059 | 225,159 |
| | September | 113,957 | 10,676 | 23,381 | 36,593 | 21,119 | 896 | 206,622 |
| | Year to Date | 1,051,819 | 104,340 | 192,582 | 303,417 | 220,893 | 8,832 | 1,881,883 |

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."

Electric Utilities

Electricity Sales¹

| | | Residential | Commercial | Industrial | Other ² | Total |
|-------------------------|---------------------|----------------|----------------|----------------|--------------------|------------------|
| Million 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 | 2,017,922 |
| 1979 | Total | 682,819 | 473,307 | 841,903 | 73,070 | 2,071,099 |
| 1980 | Total | 717,495 | 488,156 | 815,067 | 73,732 | 2,094,449 |
| 1981 | Total | 722,265 | 514,338 | 825,743 | 84,756 | 2,147,103 |
| 1982 | Total | 729,519 | 526,397 | 744,949 | 85,575 | 2,086,440 |
| 1983 | 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 | 45,232 | 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 | 71,020 | 53,922 | 71,843 | 7,006 | 203,791 |
| | August | 73,138 | 53,603 | 74,534 | 7,089 | 208,364 |
| | September | 67,456 | 52,854 | 71,275 | 6,780 | 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 | 67,219 | 7,270 | 201,364 |
| | 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 | 60,652 | 51,521 | 70,091 | 6,848 | 189,112 |
| | July | 70,966 | 56,128 | 69,760 | 7,135 | 203,989 |
| | August | 73,693 | 57,041 | 71,402 | 7,277 | 209,414 |
| | September | 71,064 | 55,960 | 70,744 | 7,263 | 205,030 |
| | October | 57,515 | 49,978 | 69,158 | 6,903 | 183,554 |
| | November | 56,794 | 47,843 | 67,164 | 7,264 | 179,065 |
| | December | 72,192 | 51,289 | 66,383 | 7,243 | 197,107 |
| | Total | 790,977 | 608,968 | 824,523 | 85,075 | 2,309,543 |
| 1986³ | January | 82,956 | 53,376 | 65,548 | 7,222 | 209,102 |
| | February | 70,820 | 50,371 | 65,116 | 6,856 | 193,162 |
| | March | 65,576 | 48,452 | 67,607 | 6,848 | 188,483 |
| | April | 62,434 | 51,138 | 74,040 | 7,843 | 195,455 |
| | May | 54,808 | 49,201 | 68,083 | 7,261 | 179,353 |
| | June | 63,843 | 56,947 | 67,083 | 6,874 | 194,747 |
| | July | 80,495 | 61,130 | 68,979 | 7,554 | 218,158 |
| | August | 80,574 | 60,583 | 68,934 | 7,304 | 217,394 |
| | September† | 68,644 | 57,736 | 69,561 | 7,173 | 203,115 |
| | Year to Date | 630,149 | 488,933 | 614,952 | 64,935 | 1,798,970 |

¹Electricity sales to all ultimate consumers.

²Includes sales of electricity to Government, railways, street lighting authorities, and sales not included elsewhere.

³Beginning with January 1986, monthly electricity sales estimates are based on a new sample and new expansion factors from data reported on Form EIA 861, "Annual Electric Utility Report."

†Initial estimates.

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

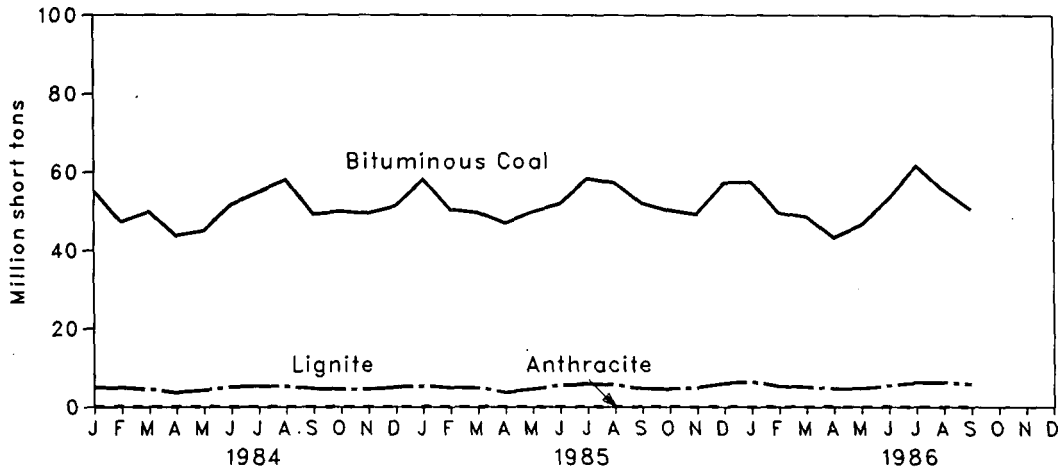
• Totals may not equal sum of components due to independent rounding.

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."

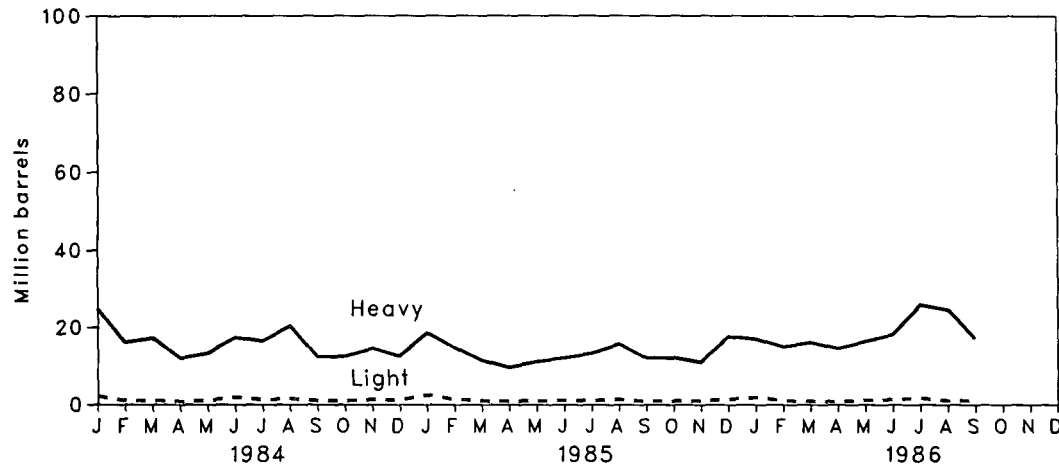
Electric Utilities

Primary Energy Consumed to Produce Electricity

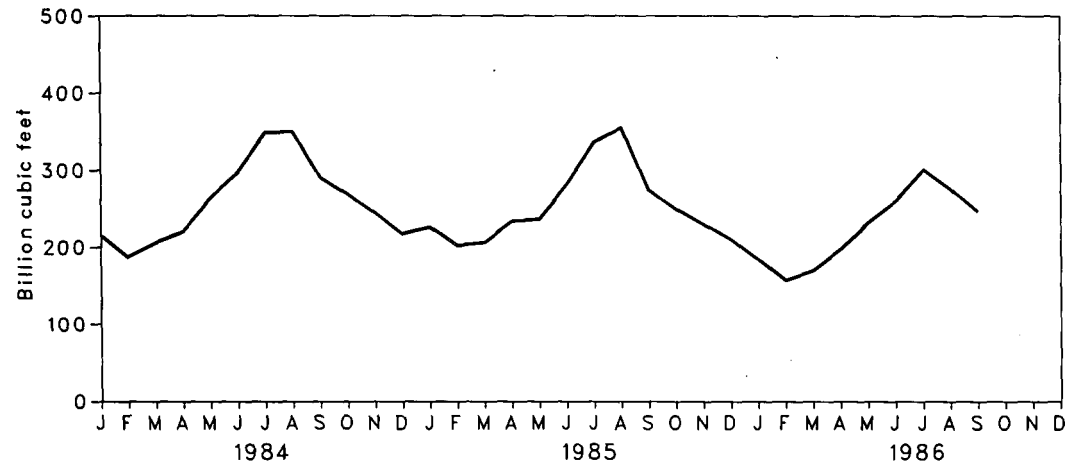
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



Electric Utilities

Primary Energy Consumed to Produce Electricity

| | | Coal | | | | Petroleum | | | | Natural Gas ¹ |
|-------------|---------------------|---------------------|-----------------|---------------|----------------|--------------------|--------------------|----------------|----------------|--------------------------|
| | | Anthracite | Bituminous Coal | Lignite | Total | Heavy ² | Light ³ | Total Liquids | Petroleum Coke | |
| | | Thousand short tons | | | | Thousand barrels | | | | Thousand short tons |
| 1973 | Total | 1,443 | 376,975 | 10,794 | 389,212 | (⁴) | (⁴) | 560,248 | 507 | 3,660,172 |
| 1974 | Total | 1,498 | 378,643 | 11,670 | 391,811 | (⁴) | (⁴) | 536,274 | 625 | 3,443,428 |
| 1975 | Total | 1,480 | 388,523 | 15,960 | 405,962 | (⁴) | (⁴) | 506,128 | 70 | 3,157,669 |
| 1976 | Total | 1,350 | 425,205 | 21,817 | 448,371 | (⁴) | (⁴) | 555,920 | 68 | 3,080,868 |
| 1977 | Total | 1,425 | 451,051 | 24,650 | 477,126 | (⁴) | (⁴) | 623,705 | 98 | 3,191,200 |
| 1978 | Total | 1,064 | 448,763 | 31,407 | 481,235 | (⁴) | (⁴) | 635,839 | 398 | 3,188,363 |
| 1979 | Total | 1,046 | 488,129 | 37,876 | 527,051 | (⁴) | (⁴) | 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 | 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 | 102 | 51,757 | 5,112 | 56,971 | 17,363 | 1,927 | 19,289 | 23 | 297,560 |
| | July | 100 | 54,928 | 5,331 | 60,359 | 16,453 | 1,259 | 17,712 | 22 | 348,848 |
| | August | 97 | 58,026 | 5,273 | 63,396 | 20,337 | 1,522 | 21,859 | 20 | 349,878 |
| | September | 81 | 49,288 | 4,675 | 54,045 | 12,235 | 996 | 13,231 | 21 | 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 | 3,111,342 |
| 1985 | January | 88 | 58,155 | 5,402 | 63,645 | 18,574 | 2,482 | 21,056 | 18 | 226,276 |
| | February | 70 | 50,481 | 4,940 | 55,491 | 14,729 | 1,333 | 16,062 | 17 | 202,546 |
| | March | 78 | 49,793 | 4,913 | 54,784 | 11,323 | 980 | 12,303 | 16 | 207,286 |
| | April | 92 | 47,072 | 3,738 | 50,903 | 9,561 | 911 | 10,471 | 16 | 233,819 |
| | May | 98 | 49,890 | 4,607 | 54,595 | 11,046 | 962 | 12,008 | 13 | 236,220 |
| | June | 90 | 51,984 | 5,561 | 57,634 | 12,005 | 1,111 | 13,116 | 21 | 281,939 |
| | July | 92 | 58,327 | 5,833 | 64,252 | 13,238 | 1,109 | 14,347 | 20 | 336,535 |
| | August | 96 | 57,304 | 5,676 | 63,076 | 15,730 | 1,338 | 17,067 | 19 | 354,653 |
| | September | 74 | 52,031 | 4,675 | 56,780 | 11,994 | 979 | 12,972 | 24 | 274,868 |
| | October | 85 | 50,265 | 4,619 | 54,969 | 12,060 | 969 | 13,029 | 23 | 249,579 |
| | November | 83 | 49,315 | 4,913 | 54,311 | 10,925 | 1,021 | 11,946 | 23 | 229,943 |
| | December | 86 | 57,270 | 6,046 | 63,402 | 17,595 | 1,440 | 19,035 | 20 | 210,417 |
| | Total | 1,033 | 631,885 | 60,923 | 693,841 | 158,779 | 14,635 | 173,414 | 231 | 3,044,083 |
| 1986 | January | 67 | 57,483 | 6,482 | 64,032 | 17,037 | 1,905 | 18,942 | 15 | 184,025 |
| | February | 50 | 49,673 | 5,325 | 55,049 | 14,978 | 1,100 | 16,077 | 15 | 157,070 |
| | March | 88 | 48,691 | 5,119 | 53,898 | 16,090 | 954 | 17,044 | 23 | 169,698 |
| | April | 84 | 43,345 | 4,684 | 48,114 | 14,538 | 893 | 15,431 | 23 | 197,459 |
| | May | 68 | 46,629 | 4,723 | 51,420 | 16,386 | 1,207 | 17,593 | 25 | 231,265 |
| | June | 64 | 53,332 | 5,496 | 58,892 | 18,173 | 1,390 | 19,564 | 24 | 260,174 |
| | July | 67 | 61,669 | 6,285 | 68,021 | 25,839 | 1,727 | 27,567 | 26 | 300,877 |
| | August | 64 | 55,415 | 6,314 | 61,794 | 24,633 | 1,155 | 25,788 | 31 | 276,178 |
| | September | 47 | 50,574 | 5,916 | 56,536 | 17,102 | 1,108 | 18,210 | 31 | 246,323 |
| | Year to Date | 599 | 466,813 | 50,343 | 517,755 | 164,776 | 11,440 | 176,216 | 215 | 2,023,069 |

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.

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

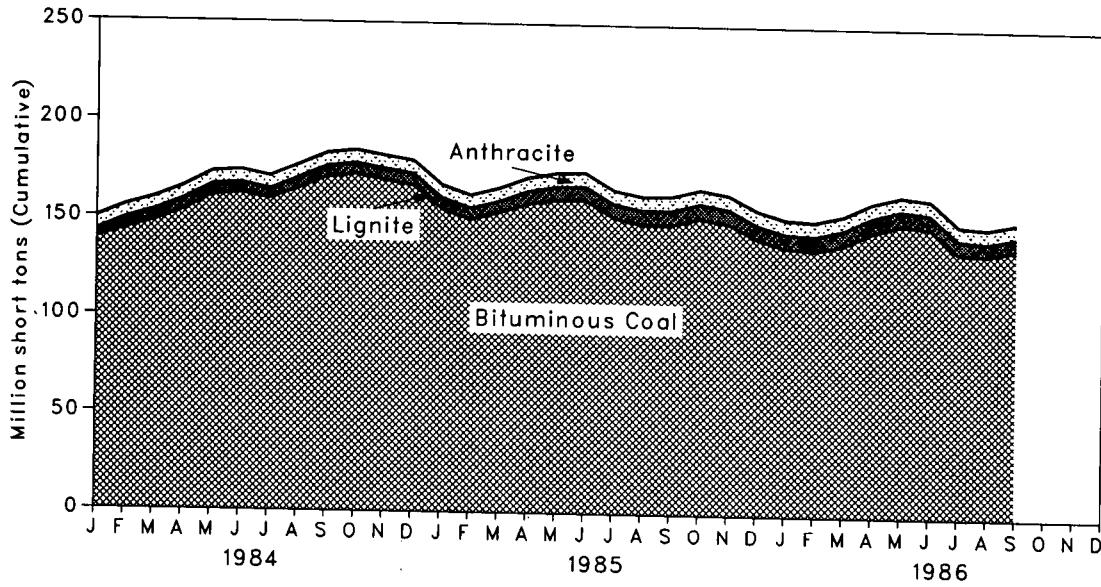
• Totals may not equal sum of components due to independent rounding.

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."

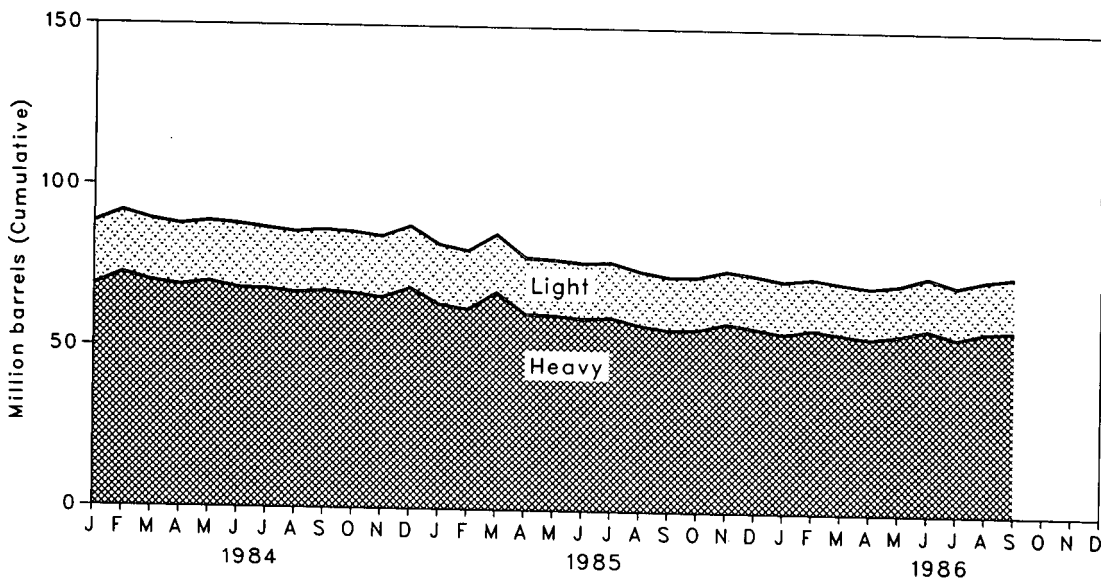
Electric Utilities

Coal and Petroleum Stocks at End of Period

Coal Stocks



Petroleum Stocks



Electric Utilities

Coal and Petroleum Stocks at End of Period

| | | Coal | | | | Petroleum | | | |
|-------------|-------------|---------------------|-----------------|--------------|----------------|--------------------|--------------------|----------------|---------------------|
| | | Anthracite | Bituminous Coal | Lignite | Total | Heavy ¹ | Light ² | Total Liquids | Petroleum Coke |
| | | Thousand short tons | | | | Thousand barrels | | | Thousand short tons |
| 1973 | Year | 1,066 | 84,941 | 961 | 86,967 | (³) | (³) | 89,216 | 312 |
| 1974 | Year | 930 | 81,712 | 867 | 83,509 | (³) | (³) | 112,917 | 35 |
| 1975 | Year | 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 | Year | 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 | 6,583 | 164,987 | 5,358 | 176,928 | 66,836 | 18,795 | 85,632 | 47 |
| | September | 6,628 | 170,987 | 5,536 | 183,151 | 67,370 | 18,921 | 86,291 | 49 |
| | October | 6,674 | 172,553 | 5,552 | 184,779 | 66,717 | 18,965 | 85,682 | 49 |
| | November | 6,715 | 169,788 | 5,627 | 182,130 | 65,548 | 18,875 | 84,423 | 43 |
| | December | 6,710 | 167,118 | 5,899 | 179,727 | 68,503 | 19,116 | 87,619 | 50 |
| 1985 | January | 6,719 | 155,067 | 5,806 | 167,592 | 63,546 | 18,518 | 82,064 | 57 |
| | February | 6,736 | 150,077 | 5,717 | 162,531 | 62,094 | 18,088 | 80,182 | 50 |
| | March | 6,782 | 153,739 | 5,834 | 166,355 | 62,558 | 17,837 | 80,395 | 43 |
| | April | 6,836 | 158,218 | 6,641 | 171,695 | 60,889 | 17,398 | 78,286 | 31 |
| | May | 6,905 | 160,326 | 6,967 | 174,198 | 60,530 | 17,236 | 77,765 | 33 |
| | June | 6,991 | 160,595 | 6,959 | 174,545 | 59,629 | 17,218 | 76,846 | 33 |
| | July | 7,045 | 151,809 | 7,049 | 165,903 | 60,116 | 17,034 | 77,151 | 43 |
| | August | 7,109 | 148,698 | 7,018 | 162,825 | 57,820 | 16,699 | 74,519 | 42 |
| | September | 7,185 | 148,637 | 7,243 | 163,065 | 56,487 | 16,442 | 72,930 | 40 |
| | October | 7,258 | 151,999 | 7,492 | 166,749 | 56,676 | 16,292 | 72,968 | 43 |
| | November | 7,223 | 149,579 | 7,272 | 164,075 | 58,720 | 16,250 | 74,970 | 47 |
| | December | 7,189 | 142,144 | 7,043 | 156,376 | 57,304 | 16,386 | 73,689 | 49 |
| 1986 | January | 7,182 | 137,699 | 7,196 | 152,078 | 55,757 | 16,254 | 72,011 | 52 |
| | February | 7,172 | 136,487 | 7,498 | 151,157 | 57,143 | 15,834 | 72,976 | 50 |
| | March | 7,146 | 139,529 | 7,734 | 154,409 | 55,811 | 15,731 | 71,542 | 36 |
| | April | 7,127 | 146,152 | 7,797 | 161,076 | 54,556 | 15,768 | 70,324 | 28 |
| | May | 7,133 | 150,164 | 7,370 | 164,667 | 55,658 | 15,632 | 71,290 | 34 |
| | June | 7,148 | 148,675 | 7,075 | 162,899 | 57,542 | 16,224 | 73,766 | 36 |
| | July | 7,158 | 135,916 | 7,016 | 150,089 | 54,956 | 16,058 | 71,014 | 43 |
| | August | 7,117 | 135,278 | 6,504 | 148,899 | 56,897 | 16,079 | 72,977 | 42 |
| | September | 7,146 | 138,188 | 6,403 | 151,737 | 57,408 | 16,674 | 74,082 | 45 |

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.

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."

Electric Utilities

Petroleum Consumption and Stocks by Prime Mover Type

| | | Petroleum Consumption | | | Petroleum Stocks at End of Period | | |
|------|-----------|-----------------------|--------------------|------------------|-----------------------------------|--------------------|------------------|
| | | Steam Plants | GT/IC ¹ | Total Liquids | Steam Plants | GT/IC ¹ | Total Liquids |
| | | Thousand 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 | 117,227 | 18,147 | 135,374 |
| 1981 | Total | 339,680 | 11,431 | 351,111 | 112,380 | 15,756 | 128,136 |
| 1982 | Total | 243,537 | 6,234 | 249,771 | 105,287 | 13,597 | 118,884 |
| 1983 | Total | 237,845 | 7,652 | 245,497 | 78,285 | 11,090 | 89,375 |
| 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 | 12,795 | 436 | 13,231 | 75,588 | 10,703 | 86,291 |
| | October | 13,019 | 396 | 13,415 | 74,906 | 10,775 | 85,682 |
| | November | 15,177 | 692 | 15,870 | 73,833 | 10,590 | 84,423 |
| | December | 13,247 | 398 | 13,645 | 76,836 | 10,784 | 87,619 |
| | | Total | 197,050 | 7,429 | 204,479 | | |
| 1985 | January | 19,846 | 1,210 | 21,056 | 71,528 | 10,536 | 82,064 |
| | February | 15,595 | 467 | 16,062 | 70,088 | 10,094 | 80,182 |
| | March | 11,966 | 337 | 12,303 | 70,385 | 10,010 | 80,395 |
| | April | 10,133 | 338 | 10,471 | 68,651 | 9,636 | 78,286 |
| | May | 11,604 | 403 | 12,008 | 68,249 | 9,516 | 77,765 |
| | June | 12,516 | 601 | 13,116 | 67,529 | 9,317 | 76,846 |
| | July | 13,840 | 507 | 14,347 | 67,816 | 9,334 | 77,151 |
| | August | 16,272 | 795 | 17,067 | 65,307 | 9,212 | 74,519 |
| | September | 12,485 | 488 | 12,972 | 63,701 | 9,229 | 72,930 |
| | October | 12,646 | 383 | 13,029 | 63,908 | 9,059 | 72,968 |
| | November | 11,584 | 362 | 11,946 | 66,103 | 8,867 | 74,970 |
| | December | 18,355 | 680 | 19,035 | 64,704 | 8,985 | 73,689 |
| | | Total | 166,842 | 6,572 | 173,414 | | |
| 1986 | January | 17,915 | 1,027 | 18,942 | 63,224 | 8,787 | 72,011 |
| | February | 15,536 | 541 | 16,077 | 64,313 | 8,663 | 72,976 |
| | March | 16,611 | 433 | 17,044 | 62,825 | 8,717 | 71,542 |
| | April | 14,982 | 449 | 15,431 | 61,758 | 8,566 | 70,324 |
| | May | 16,933 | 660 | 17,593 | 63,135 | 8,155 | 71,290 |
| | June | 18,796 | 768 | 19,564 | 65,046 | 8,720 | 73,766 |
| | July | 26,373 | 1,193 | 27,567 | 62,256 | 8,759 | 71,014 |
| | August | 25,104 | 683 | 25,788 | 64,085 | 8,891 | 72,977 |
| | September | 17,500 | 710 | 18,210 | 65,115 | 8,967 | 74,082 |
| | | Year to Date | 169,751 | 6,465 | 176,216 | | |

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."

Nuclear

In September 1986, U.S. nuclear generating units produced a total of 36.6 billion net kilowatt-hours of electricity while achieving an average capacity factor of 60.4 percent. That generation represents an increase of 6.0 percent compared with September 1985 generation. Nuclear power supplied 17.7 percent of the electricity generated in September 1986, the highest monthly share in history.

Nuclear generation during the first three quarters of 1986, increased 5.2 percent compared with nuclear generation during the first three quarters of 1985. The average monthly nuclear share of electricity for the first three quarters, was 16.1 percent in 1986 compared with 15.5 percent in 1985. During the same comparable periods, the average monthly capacity factor for U.S. nuclear units was 56.2 percent in 1986 and 59.1 percent in 1985.

On September 22, 1986, Arizona Public Service's Palo Verde 2, a 1,259-net-megawatt-electric pressurized-water reactor, began commercial operation. An operating license for Palo Verde 2 was issued by the Nuclear Regulatory Commission in December 1985. A full-power amendment to the license was issued in April 1986, and Palo Verde 2 first generated electricity for sale on May 20, 1986. On September 29, 1986, Illinois Power's Clinton 1, a 935-net-megawatt-electric boiling-water reactor, was issued an operating license.

As of September 30, 1986, there were 99 operable U.S. nuclear power generating units

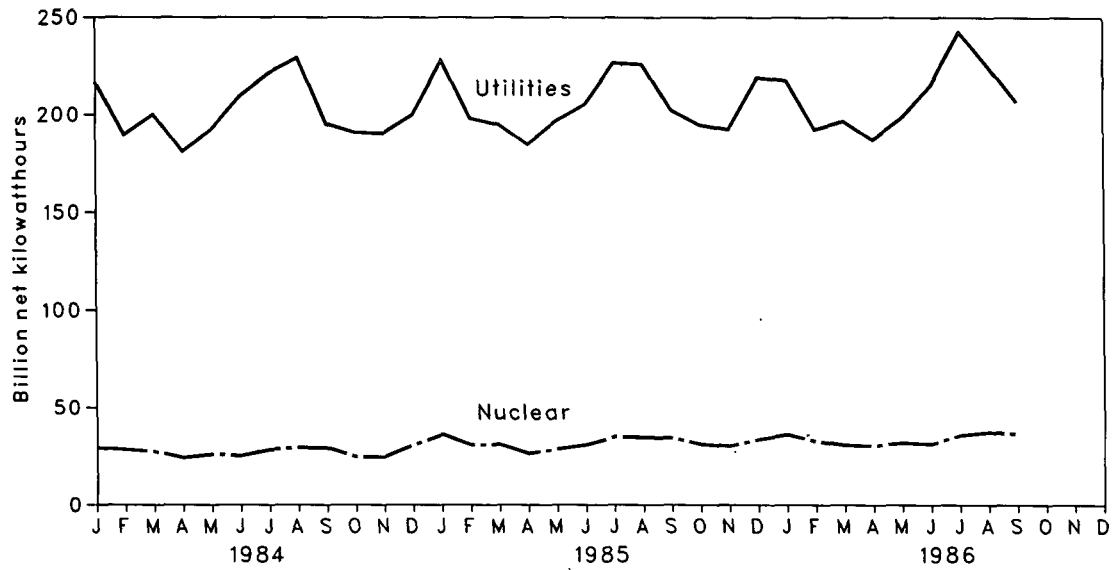
with a collective net summer capability of 84.1 million net kilowatts. Three additional units (Clinton 1, Perry 1, and Shoreham) had licenses from the Nuclear Regulatory Commission authorizing fuel-loading and low-power testing. Of the 99 operable units, 2 were in power ascension (Fermi 2 and Hope Creek 1), and 25 units generated no electricity or operated substantially below capability (Arkansas Nuclear 1, Arkansas Nuclear 2, Browns Ferry 1, Browns Ferry 2, Browns Ferry 3, Catawba 1, Catawba 2, Davis-Besse, Diablo Canyon 1, Grand Gulf 1, Fort Saint Vrain, LaCrosse, LaSalle 1, North Anna 1, Oyster Creek, Palisades, Palo Verde 2, Pilgrim, Rancho Seco, San Onofre 1, San Onofre 2, Susquehanna 2, Sequoyah 1, Sequoyah 2, and Zion 1). Nine of those 25 units were out of service at least part of the month of September for maintenance and refueling. Five Tennessee Valley Authority units (Browns Ferry 1, Browns Ferry 2, Browns Ferry 3, Sequoyah 1, and Sequoyah 2) remained shut down to confirm qualifications of safety systems. Public Service Company of Colorado's Fort Saint Vrain remained shut down for modifications of safety equipment.

As of September 30, 1986, there were 128 domestic nuclear power generating units in all stages of planning, construction, or operation, with an aggregate design capacity of 119 million net kilowatts.

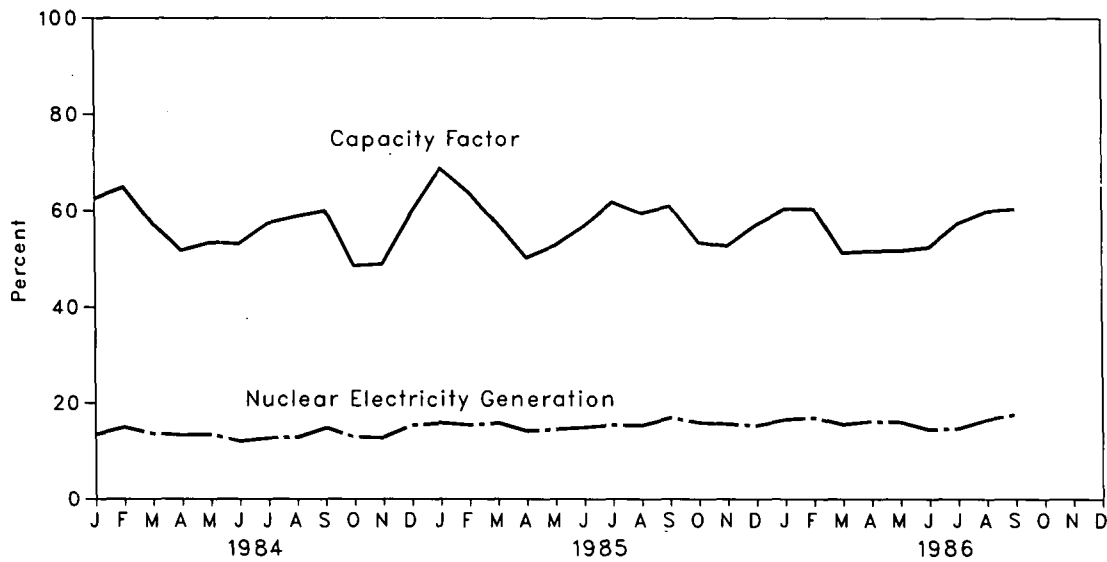
Nuclear

Nuclear Power Plant Operations

Electricity Generated by Utilities and by Nuclear Power Plants



Nuclear Portion of Electricity Generation and Capacity Factor



Nuclear

Nuclear Power Plant Operations

| | | Operable Reactors ^{1, 2} | Nuclear-Based Electricity Generation Million net kilowatthours | Nuclear Portion of Domestic Electricity Generation Percent | Net Summer Capability of Operable Reactors ^{1, 3} Million net kilowatts | Capacity Factor ⁴ Percent |
|------|-----------|--------------------------------------|--|---|---|--|
| Year | Month | | | | | |
| 1973 | Year | 39 | 83,479 | 4.5 | 22.615 | 53.7 |
| 1974 | Year | 48 | 113,976 | 6.1 | 31.803 | 47.9 |
| 1975 | Year | 54 | 172,505 | 9.0 | 37.161 | 56.0 |
| 1976 | Year | 61 | 191,104 | 9.4 | 43.657 | 54.9 |
| 1977 | Year | 65 | 250,883 | 11.8 | 46.202 | 63.4 |
| 1978 | Year | 70 | 276,403 | 12.5 | 50.709 | 64.7 |
| 1979 | Year | 68 | 255,155 | 11.4 | 49.630 | 58.5 |
| 1980 | Year | 70 | 251,116 | 11.0 | 51.668 | 56.4 |
| 1981 | Year | 74 | 272,674 | 11.9 | 55.914 | 58.4 |
| 1982 | Year | 77 | 282,773 | 12.6 | 59.927 | 56.7 |
| 1983 | Year | 80 | 293,677 | 12.7 | 63.009 | 54.4 |
| 1984 | January | 80 | 29,313 | 13.5 | 63.009 | 62.5 |
| | February | 80 | 28,436 | 15.0 | 63.009 | 64.8 |
| | March | 81 | 27,345 | 13.7 | 64.057 | 57.4 |
| | April | 82 | 24,231 | 13.4 | 65.157 | 51.7 |
| | May | 82 | 25,867 | 13.5 | 65.157 | 53.4 |
| | June | 83 | 25,299 | 12.1 | 66.207 | 53.1 |
| | July | 83 | 28,284 | 12.8 | 66.207 | 57.4 |
| | August | 84 | 29,493 | 12.9 | 67.446 | 58.8 |
| | September | 84 | 29,146 | 14.9 | 67.446 | 60.0 |
| | October | 85 | 24,774 | 13.0 | 68.566 | 48.6 |
| | November | 86 | 24,575 | 12.9 | 69.652 | 49.0 |
| | December | 86 | 30,872 | 15.4 | 69.652 | 59.6 |
| | Year | | | 327,634 | 13.6 | |
| 1985 | January | 87 | 36,186 | 15.9 | 70.784 | 68.7 |
| | February | 88 | 30,812 | 15.5 | 71.904 | 63.8 |
| | March | 89 | 31,041 | 15.9 | 72.994 | 57.2 |
| | April | 89 | 26,458 | 14.3 | 72.994 | 50.3 |
| | May | 89 | 28,697 | 14.6 | 72.994 | 52.8 |
| | June | 91 | 30,837 | 15.0 | 75.390 | 56.8 |
| | July | 92 | 35,184 | 15.5 | 76.469 | 61.8 |
| | August | 94 | 34,812 | 15.4 | 78.590 | 59.5 |
| | September | 94 | 34,508 | 17.0 | 78.590 | 61.0 |
| | October | 94 | 31,205 | 16.0 | 78.590 | 53.4 |
| | November | 95 | 30,166 | 15.7 | 79.509 | 52.7 |
| | December | 95 | 33,782 | 15.4 | 79.509 | 57.1 |
| | Year | | | 383,691 | 15.5 | |
| 1986 | January | 96 | 36,219 | 16.6 | 80.652 | 60.4 |
| | February | 96 | 32,721 | 17.0 | 80.652 | 60.4 |
| | March | 96 | 30,773 | 15.6 | 80.652 | 51.3 |
| | April | 97 | 30,477 | 16.3 | 81.911 | 51.7 |
| | May | 98 | 31,924 | 16.1 | 83.063 | 51.7 |
| | June | 98 | 31,334 | 14.6 | 83.063 | 52.4 |
| | July | 99 | 35,894 | 14.8 | 84.116 | 57.4 |
| | August | 99 | 37,483 | 16.6 | 84.116 | 59.9 |
| | September | 99 | 36,593 | 17.7 | 84.116 | 60.4 |

¹Monthly data are the status as of the last day of the month. Yearly data are the status as of December 31 of each year.

²See Note 1 on the last page of this section for the definition.

³When possible, net summer capability is used. When a reactor has not operated long enough to permit determination of a net summer capability, an estimation is made based on the net design electrical rating. For the definitions of net summer capability and net design electrical rating, 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.

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

Sources: • See the last page of this section.

Nuclear

Status of Nuclear Reactor Units¹

| | Licensed for Operation | | Construction Permits | | On Order | Announced | Total | Total Design Capacity ⁴ Million net kilowatts | |
|------|---------------------------|-------------------------|-------------------------|---------|----------|-----------|-------|--|-----|
| | Operable ² | In Startup ³ | Granted | Pending | | | | | |
| 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 | 61 | 0 | 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 | 0 | 183 | 179 |
| 1980 | Year | 70 | 2 | 82 | 12 | 3 | 0 | 169 | 163 |
| 1981 | Year | 74 | 0 | 75 | 11 | 3 | 0 | 163 | 157 |
| 1982 | Year | 77 | 2 | 60 | 3 | 2 | 0 | 144 | 135 |
| 1983 | Year | 80 | 3 | 53 | 0 | 2 | 0 | 138 | 129 |
| 1984 | January | 80 | 3 | 51 | 0 | 2 | 0 | 136 | 128 |
| | February | 80 | 3 | 51 | 0 | 2 | 0 | 136 | 128 |
| | March | 81 | 3 | 50 | 0 | 2 | 0 | 136 | 128 |
| | April | 82 | 3 | 49 | 0 | 2 | 0 | 136 | 128 |
| | May | 82 | 3 | 49 | 0 | 2 | 0 | 136 | 128 |
| | June | 83 | 3 | 48 | 0 | 2 | 0 | 136 | 128 |
| | July | 83 | 3 | 48 | 0 | 2 | 0 | 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 | 33 | 0 | 2 | 0 | 130 | 121 |
| | May | 89 | 6 | 33 | 0 | 2 | 0 | 130 | 121 |
| | June | 91 | 4 | 33 | 0 | 2 | 0 | 130 | 121 |
| | 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 |
| | December | 95 | 3 | 30 | 0 | 2 | 0 | 130 | 121 |
| 1986 | January | 96 | 2 | 30 | 0 | 2 | 0 | 130 | 121 |
| | February | 96 | 3 | 29 | 0 | 2 | 0 | 130 | 121 |
| | March | 96 | 4 | 28 | 0 | 2 | 0 | 130 | 121 |
| | April | 97 | 4 | 27 | 0 | 2 | 0 | 130 | 121 |
| | May | 98 | 3 | 27 | 0 | 2 | 0 | 130 | 121 |
| | June | 98 | 3 | 27 | 0 | 2 | 0 | 130 | 121 |
| | July | 99 | 2 | 25 | 0 | 2 | 0 | 128 | 119 |
| | August | 99 | 2 | 25 | 0 | 2 | 0 | 128 | 119 |
| | September | 99 | 3 | 24 | 0 | 2 | 0 | 128 | 119 |

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 were canceled prior to being assigned a net summer capability. 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: For 1973 through 1979, units are defined as operable based upon the date they first produced electricity. For 1980 and following, operable units are defined as those units that have received an operating license, completed low-power testing, and received a full power amendment from the Nuclear Regulatory Commission (NRC). This distinction arises because the full power amendment date has no direct analogue for full years prior to 1980. Fermi-2 (net summer capability of 1,079 MWe), is included, although currently the unit is restricted by the NRC from providing electric power to the grid. The Hanford-N reactor, operated by the Department of Energy (DOE), with a net summer capability of 850 megawatts electric (MWe) is included as an operable reactor, although it is not licensed by the NRC, because electricity produced from its output steam is distributed commercially. Similarly, the Shippingport reactor (net summer capability of 55 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 are deleted from entries subsequent to their removal from service: Peach Bottom 1 (net summer capability of 36 MWe) and Indian Point 1 (net summer capability of 253 MWe), both out of service since November 1974; Humboldt Bay (net summer capability of 60 MWe), down since August 1976 for major seismic modifications and subsequently officially retired; Dresden 1 (net summer capability of 189 MWe), out of service since January 1979 for major modifications and officially retired in August 1984; and Three Mile Island 2 (net summer capability of 890 MWe), whose core was severely damaged by a loss-of-coolant accident in March 1979.

2. In Startup: Units that have received an operating license 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 Summer Capability**—The steady hourly output which generating equipment is expected to supply to system load exclusive of auxiliary power, as demonstrated by test at

the time of summer peak demand. Auxiliary power of a typical nuclear power plant is about 5 percent of 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 monthly net summer capability. 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."

Net Summer Capability: Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

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 Alternate Fuels.

• July 1982 forward—Nuclear Regulatory Commission Report NUREG-0871, "Summary Information Report," Nuclear Regulatory Commission Report NUREG-0020, "Licensed 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."

Price

Crude Oil

The average price of domestic crude oil purchased at the wellhead was \$11.20 per barrel in September 1986, 12.9 percent above the previous month's level but 53.3 percent below the level in September 1985.

During September 1986, the refiner acquisition cost of imported crude oil increased 98 cents per barrel to \$12.85 per barrel, which was 51.6 percent below the September 1985 level. The cost of domestic crude oil in September 1986 was \$13.27, 49.8 percent below the September 1985 average.

Motor Gasoline

The national city average retail price of leaded regular gasoline at all types of stations was 77 cents per gallon in October 1986, 3.3 percent lower than the price in September 1986. The price of unleaded regular gasoline was 83 cents per gallon in October 1986, 3.4 percent lower than the price in the previous month. The price of unleaded premium gasoline averaged 99 cents per gallon in October 1986, 2.3 percent lower than during September 1986.

Residual Fuel Oil

The average price, excluding taxes, of residual fuel oil sold to end users in September 1986 was 30 cents per gallon, 12.5 percent above the previous month's price, but 49.1 percent below the September 1985 average. The average price, excluding taxes, of residual fuel oil sold for resale in September 1986 was 28 cents per gallon, 49.9 percent below the September 1985 average.

Aviation Fuel

The average price, excluding taxes, of aviation gasoline sold to end users in September 1986 was 93 cents per gallon, 22.0 percent below the price in September 1985. The average price, excluding taxes, of kerosene-type jet fuel sold to end users in September 1986 was 42 cents per gallon, 46.9 percent from the price 1 year earlier.

No. 2 Distillate Fuel Oil

The national average price of heating oil sold to residential customers in September 1986 was 69 cents per gallon, 31.2 percent below the September 1985 price. The average price for resale was 42 cents per gallon in September 1986, 46.0 percent below the price in September 1985.

Natural Gas

In August 1986 the average wellhead price of marketed natural gas production was \$1.62 per thousand cubic feet, 34.4 percent below the August 1985 price. The average price of natural gas delivered to electric utility plants was \$2.23 per thousand cubic feet in August 1986, 35.5 percent below the August 1985 price. The average price of natural gas used by residential consumers in September 1986 was \$6.82 per thousand cubic feet, 3.4 percent less than the September 1985 price. The average price of natural gas used by industrial consumers in September 1986 was \$2.81 per thousand cubic feet, 26.8 percent less than the September 1985 price.

Electricity

Beginning with January 1986, there are new series of national average price estimates based on a statistically derived sample of both publicly and privately owned electric utilities. Previously, average price estimates were derived from selected privately owned electric utilities and were not national averages.

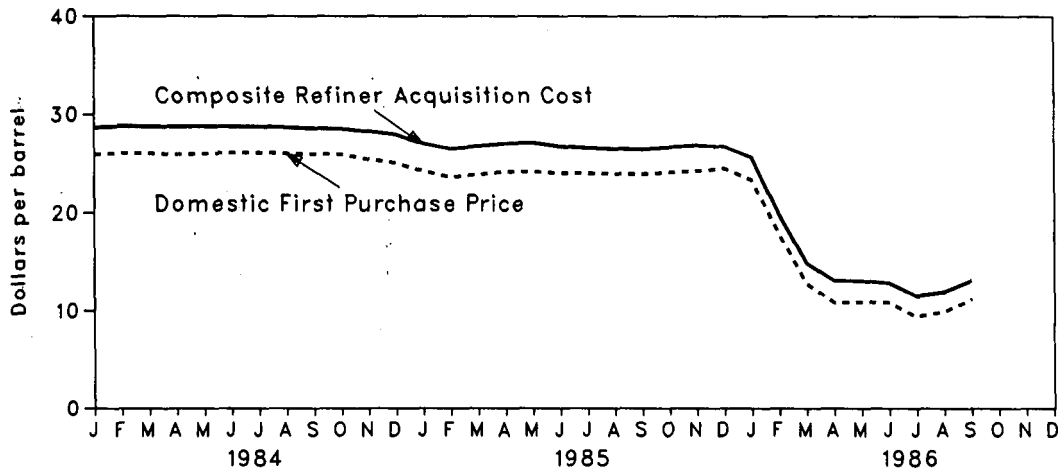
The national retail price of electricity to residential consumers in September 1986 was 7.77 cents per kilowatthour, 0.8 percent* above the August 1986 price. The price of electricity to commercial consumers averaged 7.29 cents per kilowatthour in September 1986, 0.8 percent above the August 1986 price. The average electricity price to industrial users during September 1986 was 4.99 cents per kilowatthour, 1.8 percent below the previous month's price. The September national retail price of electricity to other consumers was 6.99 cents per kilowatthour, 6.4 percent above the August 1986 price.

*Percentages in this paragraph are based on unrounded numbers not shown in following tables.

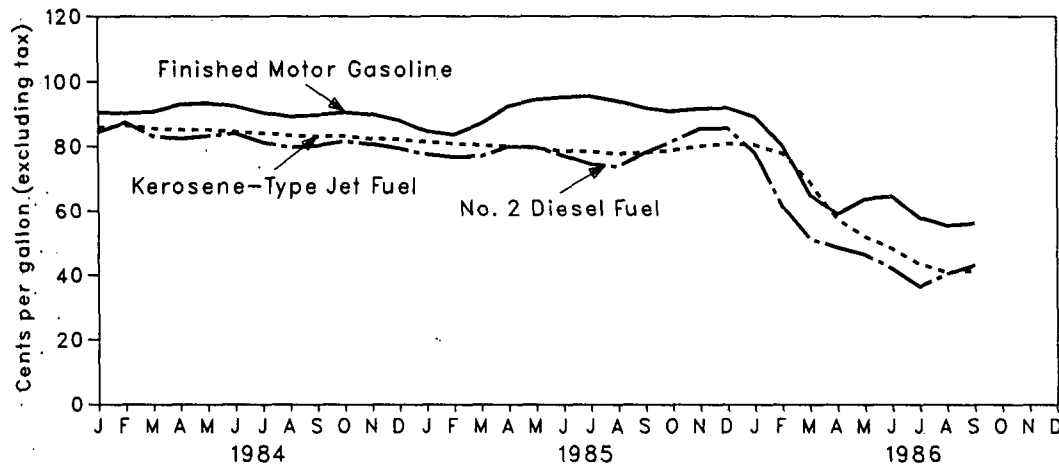
Price

Selected Petroleum Price Series

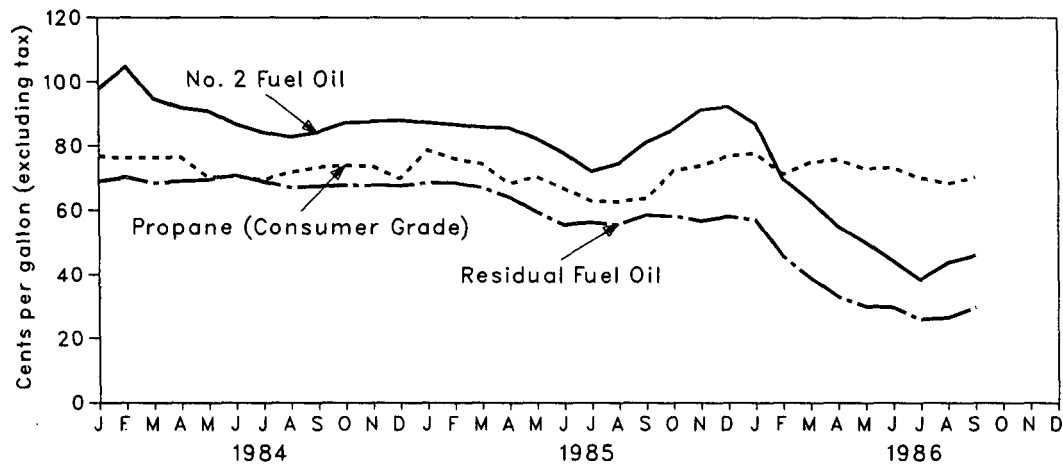
Crude Oil



Refiner and Gas Plant Operator Sales to End Users: Motor Gasoline, Diesel Fuel, and Jet Fuel



Refiner and Gas Plant Operator Sales to End Users: No. 2 Fuel Oil, Propane, and Residual Fuel Oil



Price

Crude Oil Price Summary

| | | Average Domestic First Purchase Price ¹ | Average FOB Cost of Crude Oil Imports ² | Average Landed Cost of Crude Oil Imports ³ | Refiner Acquisition Cost of Crude Oil ⁴ | | |
|--------------------|------------|--|--|---|--|----------|-----------|
| | | | | | 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 | Average | 28.19 | 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 | 26.00 | 27.87 | 28.94 | 28.65 | 29.26 | 28.83 |
| | June | 26.09 | 27.78 | 28.89 | 28.58 | 29.19 | 28.77 |
| | July | 26.11 | 27.19 | 28.32 | 28.70 | 29.00 | 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 | R24.26 | R26.34 | R27.02 | 26.89 | R27.49 | 27.02 |
| | February | R23.64 | R26.23 | R26.86 | R26.35 | R26.99 | R26.49 |
| | March | R23.89 | R26.50 | R27.13 | R26.60 | R27.20 | R26.76 |
| | April | R24.19 | R26.75 | R27.51 | 26.79 | R27.59 | R27.03 |
| | May | 24.18 | R26.38 | R27.21 | R26.91 | R27.60 | R27.12 |
| | June | R24.07 | R25.71 | R26.49 | R26.60 | R27.25 | R26.76 |
| | July | R24.04 | R25.43 | R26.37 | R26.60 | R26.57 | R26.59 |
| | August | R23.99 | R25.51 | R26.26 | R26.46 | R26.61 | 26.50 |
| | September | R23.96 | R25.56 | R26.48 | R26.41 | R26.56 | R26.45 |
| | October | R24.10 | R25.74 | R26.71 | R26.60 | R26.79 | R26.66 |
| | November | R24.27 | R25.81 | R26.73 | R26.73 | 27.12 | R26.86 |
| | December | R24.51 | R24.12 | R25.19 | R26.93 | R26.21 | R26.72 |
| | Average | R24.09 | R25.83 | R26.66 | R26.66 | R26.99 | R26.75 |
| 1986 | January | 23.38 | 21.45 | 22.76 | 25.94 | 24.92 | 25.64 |
| | February | 17.84 | 15.17 | 16.28 | 20.42 | 18.02 | 19.81 |
| | March | 12.78 | 12.56 | 13.52 | 15.11 | 14.21 | 14.87 |
| | April | 10.83 | 11.58 | 12.46 | 13.06 | 13.14 | 13.08 |
| | May | 10.90 | 10.94 | 12.15 | 12.99 | 13.17 | 13.05 |
| | June | 10.84 | 10.82 | 11.88 | 13.11 | 12.25 | 12.82 |
| | July | 9.39 | R9.72 | R10.87 | 11.82 | 10.91 | 11.51 |
| | August | R9.92 | R†10.62 | †11.53 | 11.95 | 11.87 | 11.92 |
| | September† | 11.20 | 12.07 | 12.86 | 13.27 | 12.85 | 13.11 |

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

²See 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 Possessions.

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

Price

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 | 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 | W | 29.67 | 24.23 |
| | July | 27.43 | 29.21 | W | 26.62 | 29.22 | W | 28.91 | 24.37 |
| | August | 26.97 | W | W | 26.71 | 29.02 | W | 28.13 | 23.91 |
| | September | 26.90 | 28.83 | NA | 26.34 | 29.24 | 27.99 | 27.99 | 24.57 |
| | October | 27.42 | 28.93 | NA | 26.44 | 28.40 | W | 28.50 | 24.43 |
| | 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 | R26.43 | 27.22 | W | W | R24.32 |
| | February | W | 27.62 | NA | R26.13 | 27.41 | W | W | 24.36 |
| | March | 26.50 | 27.01 | W | R26.45 | 28.20 | NA | W | R24.91 |
| | April | R27.34 | R27.46 | W | R26.42 | 27.95 | NA | R27.99 | R24.57 |
| | May | W | R27.30 | W | R26.34 | R27.81 | NA | R27.37 | R24.51 |
| | June | W | 27.06 | W | R24.99 | 27.09 | NA | 26.65 | 24.32 |
| | July | W | 27.44 | W | R24.49 | R27.86 | NA | R26.51 | 23.13 |
| | August | NA | R26.74 | W | R24.81 | R27.83 | NA | 26.98 | R22.59 |
| | September | W | 25.29 | W | R24.72 | 27.97 | W | R27.60 | 22.49 |
| | October | W | 26.95 | W | R24.76 | 28.30 | W | 28.22 | R22.84 |
| | November | W | 27.24 | W | R24.57 | 28.67 | W | R28.69 | R23.08 |
| | December | W | 27.49 | W | R23.57 | 29.19 | 18.48 | R28.08 | 22.78 |
| | Average | R26.84 | R27.12 | W | R25.33 | R28.04 | 22.04 | R27.63 | R23.64 |
| 1986 | January | W | 26.68 | NA | 19.81 | 26.18 | 12.60 | 25.15 | 21.40 |
| | February | W | W | W | 14.24 | 19.93 | W | 18.31 | 12.56 |
| | March | W | 13.32 | W | 11.55 | 15.77 | 12.07 | W | 10.40 |
| | April | W | 10.77 | W | 10.22 | 14.61 | 12.13 | 11.78 | 10.48 |
| | May | 12.17 | 11.36 | W | 10.47 | 13.64 | 8.03 | 13.25 | 10.90 |
| | June | W | 11.81 | W | 9.77 | 12.39 | 8.54 | 12.91 | 9.55 |
| | July | W | R10.00 | W | 8.43 | R10.98 | 10.15 | 10.38 | R7.71 |
| | August† | 12.10 | R9.74 | W | R10.55 | R11.39 | 9.16 | R10.45 | R9.93 |
| | September† | W | 12.29 | NA | 11.55 | 13.51 | W | 13.47 | 10.37 |

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.

†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.

Price

Landed Cost of Crude Oil Imports from Selected Countries¹

| | | Algeria | Canada | Indonesia | Iran | Mexico | Nigeria | Saudi Arabia | United Kingdom | Venezuela |
|--------------------|----------------|----------------|---------------|---------------|------------------|---------------|---------------|---------------|----------------|---------------|
| Dollars per barrel | | | | | | | | | | |
| 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 | 13.54 | 14.86 | 13.92 | NA | 12.83 |
| 1979 | Average | 21.90 | 20.43 | 20.69 | 25.02 | 20.86 | 22.96 | 19.15 | 22.16 | 18.18 |
| 1980 | 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 | 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 | 29.99 | 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 | 28.55 | 25.24 |
| | | Average | 29.08 | 26.59 | 30.64 | 28.67 | 26.87 | 30.50 | 29.50 | 29.60 |
| 1985 | January | 26.28 | R25.30 | 29.26 | NA | R26.80 | 28.70 | W | W | R25.36 |
| | February | 26.06 | 24.00 | R28.84 | NA | R26.51 | 28.55 | W | W | 25.37 |
| | March | 27.09 | R25.17 | 28.40 | W | R26.72 | 29.42 | NA | W | R25.73 |
| | April | R28.18 | R26.14 | R28.99 | W | R26.67 | 28.99 | W | R28.70 | 25.44 |
| | May | W | R26.30 | 28.98 | W | R26.66 | R28.73 | NA | R28.07 | 25.26 |
| | June | W | R26.24 | 28.73 | 24.55 | R25.29 | 27.81 | NA | R27.54 | 25.13 |
| | July | 27.35 | R25.97 | 28.95 | 24.33 | R24.76 | 28.56 | W | R27.60 | 23.81 |
| | August | W | 26.05 | R28.14 | R25.76 | R24.96 | 28.54 | NA | R27.61 | 23.45 |
| | September | W | R25.94 | 26.79 | 26.47 | R25.00 | R28.76 | W | R28.23 | R23.38 |
| | October | W | R25.90 | 28.47 | R26.56 | R25.09 | 29.06 | 26.69 | 29.00 | R23.57 |
| | November | W | R25.91 | 29.00 | 27.00 | R24.91 | 29.61 | 24.72 | R29.45 | R23.80 |
| | December | W | R25.56 | 28.82 | W | R23.94 | 30.38 | R21.09 | 28.75 | 23.53 |
| | | Average | R27.46 | R25.71 | R28.67 | R25.79 | R25.63 | R28.96 | R24.72 | R28.35 |
| 1986 | January | W | 23.92 | 28.44 | NA | 20.17 | 27.83 | 14.41 | 25.38 | 22.21 |
| | February | W | 17.31 | W | W | 14.58 | 21.43 | 14.08 | 18.62 | 13.27 |
| | March | W | 13.02 | 14.94 | W | 11.87 | 16.57 | 13.66 | W | 11.01 |
| | April | W | 11.57 | 12.29 | W | 10.53 | 15.21 | 13.64 | 12.46 | 11.19 |
| | May | 13.05 | 12.04 | 12.80 | W | 10.81 | 14.55 | 10.57 | 14.17 | 11.58 |
| | June | W | 12.71 | 13.20 | 11.29 | 10.08 | 14.01 | 10.49 | 13.65 | 10.24 |
| | July | W | R11.20 | 11.72 | W | 8.73 | R12.12 | R11.33 | R11.83 | R8.45 |
| | August† | 13.38 | R11.70 | R11.55 | R11.08 | R10.87 | R12.25 | R11.27 | R11.56 | R10.67 |
| | September† | 12.90 | 12.50 | 13.85 | W | 11.92 | 14.12 | 12.28 | 14.15 | 11.10 |

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

²No 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.

Price

U.S. City Average Retail Prices for Motor Gasoline¹

| | | Leaded Regular | Unleaded Regular | Unleaded Premium | Average for All Types ² |
|---------------------------------|----------------------|-------------------|---------------------|---------------------|--|
| Cents per gallon, 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 |
| 1982 | Average | 122.2 | 129.6 | 141.5 | 128.1 |
| 1983 | 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 |
| 1986 | January | 110.7 | 119.4 | 133.6 | 119.0 |
| | February | 103.4 | 112.0 | 128.2 | 111.9 |
| | March | 89.4 | 98.1 | 116.0 | 98.3 |
| | April | 81.5 | 88.8 | 106.1 | 89.5 |
| | May | 85.2 | 92.3 | 107.5 | 92.7 |
| | June | 88.5 | 95.5 | 110.0 | 95.8 |
| | July | 82.2 | 89.0 | 104.5 | 89.5 |
| | August | 77.8 | 84.3 | 99.9 | 84.8 |
| | September | 79.7 | 86.0 | 101.0 | R86.4 |
| | October | 77.1 | 83.1 | 98.7 | 83.7 |

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.

R=Revised data. 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.

Price

Refiner and Gas Plant Operator Sales Prices of Residual Fuel Oil¹

| | Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent | | Residual Fuel Oil Sulfur Content Greater Than 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 gallon, 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 | 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 | R71.2 | R63.4 | 66.5 | R64.8 | R68.6 |
| | February | 67.6 | R71.1 | 63.4 | R66.0 | 65.0 | R68.6 |
| | March | 66.2 | R69.8 | 60.8 | 65.0 | 62.4 | R67.1 |
| | April | 63.0 | 67.5 | R58.8 | 61.9 | R60.3 | 64.1 |
| | May | 58.1 | 61.2 | R53.5 | 58.0 | R55.0 | 59.5 |
| | June | 54.9 | 59.9 | 50.6 | R52.7 | 52.4 | 55.6 |
| | July | 56.4 | 58.9 | 52.8 | R54.5 | 53.9 | R56.3 |
| | August | R55.2 | R57.1 | R52.0 | R53.8 | 53.2 | R55.6 |
| | 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 | 57.8 | 61.7 | 50.7 | 52.8 | 53.6 | 56.8 |
| | December | 60.7 | 62.6 | R52.3 | 54.4 | R55.1 | 58.2 |
| | Average | R61.0 | R64.4 | R56.0 | R58.2 | R57.7 | R61.0 |
| 1986 | January | 57.1 | 62.0 | 49.5 | 52.9 | 51.7 | 57.1 |
| | February | 43.9 | 49.0 | 36.3 | 42.7 | 38.7 | 45.8 |
| | March | 37.6 | 42.7 | 28.3 | 35.7 | 31.6 | 39.0 |
| | April | 31.7 | 36.8 | 25.8 | 30.1 | 28.0 | 33.0 |
| | May | 30.5 | 35.0 | 23.5 | 26.8 | 26.5 | 30.1 |
| | June | 30.1 | 32.3 | 22.9 | 26.8 | 26.2 | 29.8 |
| | July | 23.8 | 27.4 | 20.3 | 24.4 | 21.9 | 25.9 |
| | August | 26.9 | 29.3 | R21.8 | 23.2 | 23.6 | 26.5 |
| | September† | 29.9 | 31.5 | 26.4 | 28.2 | 28.1 | 29.6 |

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. 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 6 in the Notes and Sources for this section for additional information.

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

Price

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) |
|---------------------------------|----------------|--|----------------------------------|-------------------------------|--------------|----------------------|-------------------------|--------------------------------|
| Cents per gallon, excluding 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 | 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 | R79.6 | 85.8 | 75.7 | 74.9 | R40.1 |
| | February | R76.4 | 114.0 | R79.5 | 86.5 | 75.2 | R74.2 | R39.3 |
| | March | R81.1 | 113.6 | R78.9 | 85.7 | R76.1 | 75.6 | 38.0 |
| | April | 86.0 | 112.6 | R79.4 | 84.7 | 79.3 | R79.2 | 37.9 |
| | May | 87.5 | 113.2 | R78.2 | 80.4 | 76.5 | 78.9 | 38.1 |
| | June | 87.7 | 113.7 | R76.1 | 75.9 | 72.9 | 75.5 | R37.0 |
| | July | 87.3 | 113.6 | 75.2 | 76.9 | 70.3 | 72.3 | 36.3 |
| | August | 85.0 | 113.3 | 76.8 | 79.7 | R72.1 | 72.5 | 36.5 |
| | September | 83.2 | 113.0 | 79.2 | 85.9 | 77.0 | 76.3 | 37.6 |
| | October | 83.1 | 113.0 | R81.6 | 90.1 | 81.7 | 80.5 | 39.7 |
| | November | 84.7 | 112.6 | 83.6 | 93.6 | 84.9 | 84.3 | 43.0 |
| | December | 83.0 | 108.1 | 83.1 | 92.7 | 83.2 | 82.1 | R46.8 |
| | Average | 83.5 | R113.0 | 79.4 | 87.4 | 77.6 | 77.2 | R39.8 |
| 1986 | January | 76.7 | 109.8 | 77.0 | 83.8 | 73.7 | 73.3 | 43.9 |
| | February | 65.0 | 108.9 | 68.0 | 67.2 | 56.4 | 56.0 | 35.4 |
| | March | 52.4 | 102.2 | 58.1 | 60.9 | 51.9 | 47.4 | 29.2 |
| | April | 51.8 | 98.5 | 49.4 | 52.6 | 45.9 | 46.3 | 27.3 |
| | May | 57.9 | 95.6 | 46.7 | 50.4 | 45.2 | 44.1 | 28.5 |
| | June | 54.5 | 92.2 | 44.5 | 50.1 | 40.0 | 39.6 | 28.3 |
| | July | 45.8 | 86.7 | 39.9 | 40.7 | 34.8 | 34.0 | 25.3 |
| | August | 47.9 | 83.0 | R39.3 | 48.1 | 40.0 | 38.8 | 24.6 |
| | September† | 48.7 | 81.6 | 42.2 | 49.4 | 41.6 | 41.8 | 24.8 |

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.

²See 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 6 in the Notes and Sources for this section for additional information.

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

Price

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, excluding 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 | 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 | R105.9 | R87.4 | 77.6 | R78.7 |
| | February | 83.6 | 121.1 | 80.9 | 103.7 | R86.8 | 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 | R68.4 |
| | 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 | R78.5 | 86.0 | R72.3 | 74.5 | 62.9 |
| | August | 94.0 | 118.9 | 77.7 | 89.9 | R74.7 | 73.8 | R62.8 |
| | September | 91.9 | 119.5 | 78.1 | R96.1 | R81.2 | 78.1 | 63.8 |
| | October | 90.8 | 118.9 | 78.8 | R100.6 | 85.2 | 81.6 | R72.4 |
| | November | 91.7 | 118.3 | 80.1 | R106.8 | 91.3 | R85.5 | R74.0 |
| | December | 91.9 | 117.0 | 80.9 | 111.5 | 92.3 | 85.6 | R77.0 |
| | Average | 91.2 | 120.1 | R79.6 | 103.0 | R84.9 | 78.9 | R71.7 |
| 1986 | January | 89.1 | 116.2 | 80.5 | 105.4 | 87.1 | 78.1 | 77.8 |
| | February | 80.3 | 117.2 | 77.9 | 93.4 | 69.9 | 61.5 | 71.4 |
| | March | 65.2 | 111.5 | 69.0 | 85.0 | 63.0 | 51.2 | 75.1 |
| | April | 59.1 | 102.9 | 57.3 | 79.4 | 55.0 | 48.5 | 75.9 |
| | May | 63.8 | 102.2 | 51.9 | 67.2 | 50.0 | 46.4 | 73.1 |
| | June | 64.7 | 97.0 | 48.2 | 49.3 | 44.4 | 42.0 | 73.5 |
| | July | 57.8 | 94.3 | 43.4 | 48.2 | 38.4 | 36.5 | 70.2 |
| | August | 55.3 | R94.9 | 41.0 | 62.5 | R43.8 | 40.5 | R68.4 |
| | September† | 56.1 | 93.2 | 41.5 | 75.1 | 46.1 | 43.2 | 70.4 |

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.

²See 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 6 in the Notes and Sources for this section for additional information.

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

Price

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

| | | CT | ME | MA | NH | RI | VT | DE | DC | MD | NJ | NY | PA | VA |
|-------------|----------------|---------------------------------|--------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|
| | | Cents per gallon, excluding tax | | | | | | | | | | | | |
| 1978 | Average | 50.1 | 48.8 | 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 | 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 | R100.7 | 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 | R102.3 | R106.8 | R106.5 | R104.1 | 113.9 | R109.6 | 105.2 | R111.0 | R101.0 | R105.4 |
| | May | 106.2 | 99.4 | 104.5 | 99.9 | 102.1 | 105.4 | 100.7 | 112.4 | R108.2 | R103.3 | R109.8 | R99.7 | R105.9 |
| | June | 103.5 | 95.4 | R101.0 | 94.4 | 98.6 | 103.7 | 96.4 | R107.2 | 104.4 | 99.6 | 108.1 | R94.9 | R104.3 |
| | July | R100.6 | 91.4 | 98.3 | R91.2 | R97.4 | R101.4 | 96.2 | 107.3 | 101.2 | 97.4 | R105.3 | 92.1 | R99.3 |
| | August | R99.6 | R90.5 | R96.2 | R91.8 | 95.9 | R101.4 | 97.5 | 105.5 | 98.9 | R97.5 | R105.5 | 92.5 | R98.9 |
| | September | 100.5 | 94.0 | 100.7 | R97.6 | 101.0 | R104.7 | 98.8 | 107.1 | R103.3 | R101.3 | 104.5 | R96.8 | R101.9 |
| | October | R106.6 | R99.5 | R104.6 | 102.3 | 104.4 | R106.7 | 102.7 | 109.9 | R106.2 | R103.3 | R107.1 | 98.6 | R105.6 |
| | November | 111.4 | 103.7 | R110.7 | R108.0 | 111.6 | R111.1 | R107.0 | R114.4 | R111.9 | 109.3 | R114.4 | R105.5 | R108.4 |
| | December | R114.2 | R105.5 | R111.1 | R108.9 | R110.9 | R113.0 | R110.5 | R117.2 | R112.7 | R112.0 | 115.0 | R109.0 | R109.9 |
| | Average | 108.0 | 99.7 | R107.0 | R102.4 | 106.7 | R107.7 | R104.6 | R114.3 | R108.8 | 105.9 | R111.3 | R102.3 | R106.3 |
| 1986 | January | 111.6 | 101.1 | 105.9 | 103.2 | 101.9 | 109.0 | 102.3 | 116.3 | 112.2 | 107.7 | 111.4 | 104.7 | 107.0 |
| | February | 99.5 | 90.9 | 90.6 | 88.5 | 93.5 | 100.2 | 93.9 | 105.4 | 99.9 | 98.3 | 102.6 | 95.3 | 98.2 |
| | March | 93.4 | 86.5 | 85.9 | 84.2 | 84.6 | 95.6 | 87.1 | 97.6 | 93.9 | 91.7 | 96.3 | 86.9 | 90.9 |
| | April | 86.2 | 77.9 | 76.7 | 74.4 | 72.1 | 89.0 | 77.1 | 93.2 | 88.6 | 84.0 | 87.5 | 77.9 | 84.2 |
| | May | 80.8 | 74.5 | 74.2 | 70.6 | 76.6 | 84.7 | 74.2 | 87.9 | 85.0 | 80.1 | 85.1 | 72.6 | 74.6 |
| | June | 77.7 | 68.5 | 68.8 | 65.4 | 72.6 | 78.9 | 73.7 | 81.7 | 79.7 | 75.6 | 81.3 | 66.0 | 74.4 |
| | July | 68.5 | 59.3 | 64.6 | 62.9 | 69.1 | 70.9 | 67.3 | 74.7 | 75.8 | 76.8 | 72.9 | 64.1 | 67.8 |
| | August | 67.0 | R58.5 | R65.1 | R63.4 | 69.0 | 68.9 | R66.6 | 70.7 | 70.7 | R72.3 | R71.6 | R62.6 | R71.1 |
| | September | 68.3 | 58.7 | 67.8 | 62.9 | 68.8 | 70.1 | 66.9 | 72.4 | 70.2 | 73.3 | 73.9 | 66.7 | 69.2 |

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.

Price

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

| | | WV | IL | IN | MI | MN | OH | WI | ID | AK | OR | WA | U.S. Average |
|---------------------------------|----------------|--------------|--------------|--------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|-----------------|
| Cents per gallon, excluding tax | | | | | | | | | | | | | |
| 1978 | Average | 46.2 | 46.5 | 48.5 | 47.9 | 47.8 | 47.4 | 44.7 | 43.6 | 53.2 | 45.8 | 48.6 | 49.0 |
| 1979 | Average | 65.1 | 68.8 | 72.7 | 70.9 | 72.4 | 68.6 | 67.3 | 62.1 | 68.2 | 68.0 | 69.7 | 70.4 |
| 1980 | Average | 92.2 | 95.8 | 99.6 | 97.8 | 99.9 | 91.9 | 91.5 | 91.6 | 97.8 | 97.3 | 100.8 | 97.4 |
| 1981 | Average | 115.0 | 114.9 | 118.5 | 118.3 | 118.4 | 113.2 | 109.1 | 110.4 | 118.0 | 111.4 | 116.5 | 119.4 |
| 1982 | Average | 109.3 | 110.9 | 114.3 | 113.9 | 115.1 | 110.2 | 107.8 | 110.4 | 117.4 | 111.6 | 117.6 | 116.0 |
| 1983 | Average | 101.0 | 100.4 | 100.7 | 106.4 | 103.1 | 101.3 | 101.2 | 101.8 | 108.8 | 103.6 | 109.0 | 107.8 |
| 1984 | January | 108.5 | 104.7 | 106.0 | 107.3 | 106.6 | 104.6 | 101.5 | 100.1 | 104.1 | 100.5 | 103.6 | 112.0 |
| | February | 109.9 | 105.9 | 107.3 | 108.0 | 102.8 | 105.7 | 102.8 | 101.3 | 106.5 | 100.9 | 103.8 | 116.9 |
| | March | 104.9 | 102.3 | 100.6 | 105.6 | 105.1 | 101.7 | 101.7 | 97.2 | 107.3 | 100.9 | 104.6 | 111.3 |
| | April | 101.6 | 100.3 | 103.4 | 104.8 | 103.9 | 101.9 | 101.4 | 96.2 | 107.3 | 100.6 | 105.0 | 109.8 |
| | May | 98.9 | 102.3 | 102.4 | 105.2 | 105.3 | 103.1 | 101.0 | 98.1 | 107.2 | 99.5 | 104.2 | 108.4 |
| | June | 99.5 | 101.6 | 105.9 | 103.3 | 104.2 | 101.7 | 100.5 | 93.8 | 107.8 | 98.2 | 103.3 | 107.2 |
| | July | 96.2 | 99.4 | 101.4 | 102.6 | 105.1 | 101.8 | 100.5 | 93.1 | 107.2 | 97.1 | 100.4 | 104.8 |
| | August | 96.6 | 98.9 | 100.3 | 101.8 | 104.5 | 99.5 | 100.0 | 97.4 | 107.3 | 94.9 | 99.7 | 103.3 |
| | September | 96.9 | 98.6 | 100.7 | 103.2 | 103.5 | 100.1 | 98.8 | 98.4 | 105.0 | 95.9 | 100.4 | 103.6 |
| | October | 98.3 | 97.1 | 100.9 | 103.0 | 103.0 | 101.2 | 100.7 | 99.4 | 107.8 | 96.5 | 100.9 | 104.9 |
| | November | 99.6 | 95.8 | 102.3 | 103.5 | 103.1 | 100.8 | 101.0 | 97.9 | 107.8 | 97.6 | 101.3 | 105.3 |
| | December | 99.2 | 94.4 | 100.9 | 103.2 | 102.8 | 99.3 | 99.0 | 98.8 | 107.5 | 97.4 | 100.5 | 104.8 |
| | Average | 102.1 | 100.1 | 103.1 | 105.0 | 104.1 | 102.1 | 101.0 | 98.5 | 106.9 | 99.3 | 102.6 | 109.1 |
| 1985 | January | R98.4 | 95.2 | 98.6 | 102.1 | 99.5 | 98.3 | 97.3 | R97.4 | 108.6 | R97.0 | 100.6 | 104.9 |
| | February | 98.3 | 94.4 | 97.8 | 101.0 | 99.8 | 98.7 | R96.2 | 96.9 | 107.6 | 96.6 | 99.8 | R105.4 |
| | March | 98.1 | 94.5 | 96.3 | 101.3 | 101.0 | 97.9 | 96.4 | 96.6 | 112.8 | 95.7 | 100.3 | 105.0 |
| | April | R96.0 | R96.6 | 98.6 | R100.0 | R101.1 | R99.8 | R97.7 | R95.7 | 107.0 | 96.5 | 99.2 | R105.3 |
| | May | 93.8 | 96.4 | R97.4 | R98.3 | 103.8 | R99.6 | R99.5 | R96.0 | R106.9 | 96.7 | 98.1 | R103.6 |
| | June | 90.7 | R92.0 | R97.6 | R98.4 | 104.3 | 97.1 | 94.2 | 95.9 | R107.3 | 95.5 | R99.2 | R100.7 |
| | July | R90.3 | R89.7 | R93.3 | R97.4 | 100.5 | 92.9 | 93.0 | R94.8 | R108.4 | 95.3 | R97.3 | 98.0 |
| | August | 88.6 | R90.6 | R92.9 | R97.2 | R100.1 | 91.8 | 93.0 | 94.5 | R106.9 | 93.0 | R96.7 | R97.3 |
| | September | 96.2 | 95.6 | R96.5 | R99.1 | R98.7 | R95.6 | 94.9 | 94.3 | 109.2 | R93.4 | 97.6 | R99.6 |
| | October | 98.7 | 100.1 | R101.2 | R101.8 | 101.1 | R97.9 | 99.1 | 97.2 | R109.1 | R94.0 | 100.0 | 103.0 |
| | November | R104.4 | 104.0 | R105.3 | 103.5 | R105.7 | 104.4 | 102.0 | R97.9 | R106.1 | R98.8 | 104.4 | 108.6 |
| | December | R104.7 | 103.4 | R105.3 | R107.1 | 105.2 | 105.9 | 103.2 | 98.8 | R106.5 | R102.3 | 106.1 | R110.5 |
| | Average | R98.0 | 97.5 | R99.1 | R102.1 | R101.9 | R99.7 | 98.3 | R97.2 | R108.3 | R97.1 | 101.1 | 105.3 |
| 1986 | January | 100.1 | 97.6 | 99.8 | 102.6 | 100.5 | 100.7 | 96.4 | 97.1 | 106.8 | 100.1 | 104.5 | 106.4 |
| | February | 87.8 | 83.1 | 84.9 | 91.9 | 86.3 | 91.9 | 83.9 | 90.9 | 104.9 | 83.7 | 90.4 | 95.8 |
| | March | 79.7 | 74.7 | 75.5 | 80.5 | 80.1 | 80.8 | 76.0 | 76.5 | 113.6 | 66.9 | 75.3 | 88.7 |
| | April | 70.8 | 68.6 | 73.9 | 74.6 | 76.3 | 78.2 | 74.0 | 69.8 | 95.6 | 62.5 | 74.9 | 80.7 |
| | May | 67.4 | 72.9 | 67.2 | 72.3 | 79.4 | 75.2 | 71.8 | 74.7 | 94.3 | 64.1 | 71.1 | 77.4 |
| | June | 63.4 | 67.3 | 66.5 | 65.3 | 74.5 | 69.1 | 69.2 | 66.8 | 89.3 | 60.0 | 65.2 | 72.9 |
| | July | 53.9 | 69.4 | 60.1 | 66.6 | 69.6 | 62.3 | 62.7 | 63.8 | 84.5 | 54.6 | 60.2 | 66.9 |
| | August | 59.7 | 66.5 | R65.6 | R69.9 | R67.6 | R62.5 | R63.6 | R58.5 | R84.3 | R55.6 | R60.5 | R66.4 |
| | September† | 60.7 | 68.4 | 66.6 | 71.4 | 69.5 | 66.0 | 67.2 | 61.1 | 89.1 | 62.8 | 66.7 | 68.5 |

Footnotes continued.

†Preliminary data. R=Revised data.

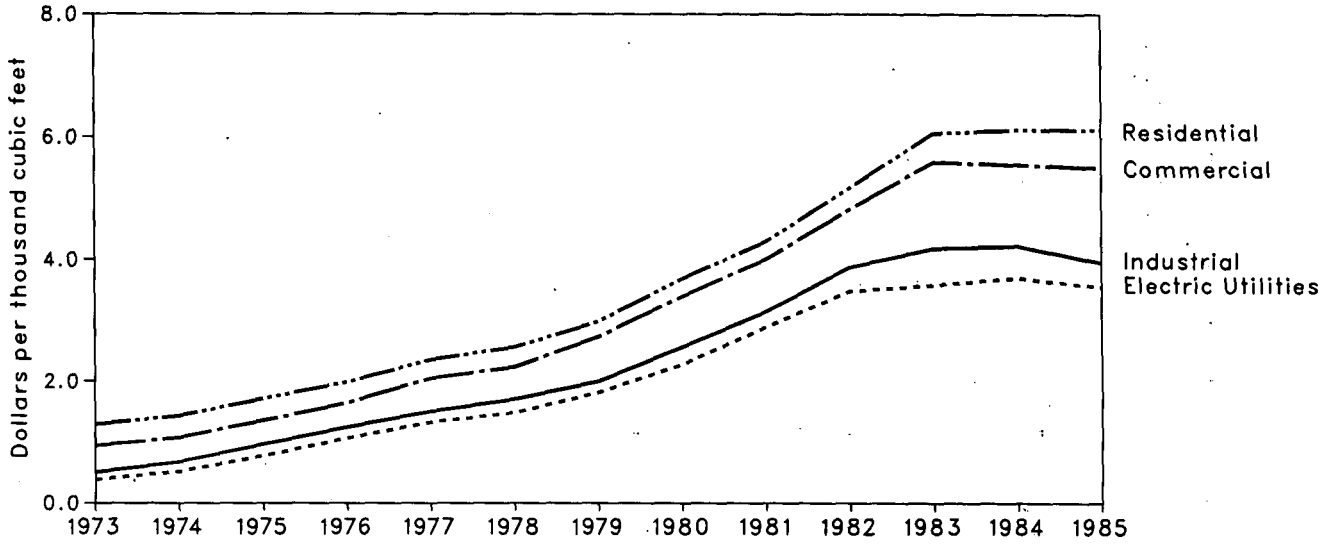
Note: • Prices prior to January 1983 are Energy Information Administration estimates. See Note 6 in the Notes and Sources for this section for additional information.

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

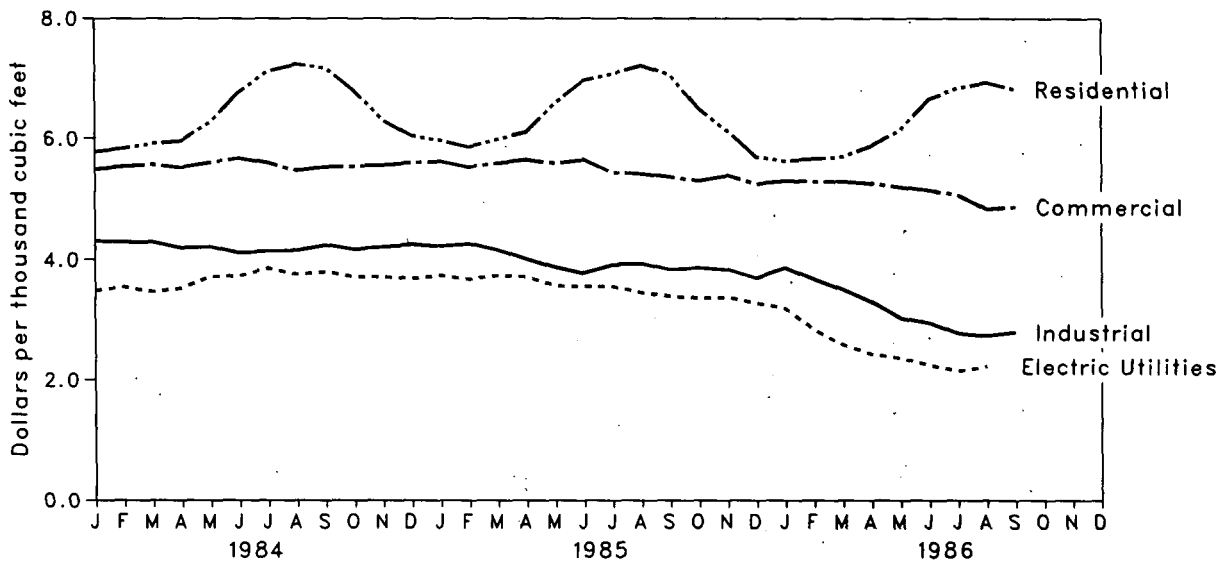
Price

Natural Gas Prices to Consumers

Yearly



Monthly



Price

National Average Natural Gas Prices

| | | Major Interstate Pipeline Companies | | | Delivered to Consumers ¹ | | | | | |
|--|-----------|-------------------------------------|---------|--------------------------|-------------------------------------|-------------|------------|------------|---------------------------------|---------|
| | | Wellhead | Imports | Purchases from Producers | City Gate | Residential | Commercial | Industrial | Electric Utilities ² | Average |
| Dollars per thousand cubic feet ³ | | | | | | | | | | |
| 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 | 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 | 5.78 | 5.49 | 4.31 | 3.49 | 5.07 |
| | February | 2.71 | 4.37 | 2.82 | 4.02 | 5.84 | 5.54 | 4.29 | 3.55 | 5.05 |
| | March | 2.67 | 4.40 | 2.80 | 3.91 | 5.92 | 5.57 | 4.29 | 3.47 | 5.00 |
| | April | 2.64 | 4.23 | 2.95 | 3.96 | 5.96 | 5.52 | 4.19 | 3.53 | 4.87 |
| | May | 2.67 | 4.15 | 2.86 | 3.98 | 6.27 | 5.60 | 4.21 | 3.72 | 4.76 |
| | June | 2.70 | 4.25 | 2.89 | 4.02 | 6.76 | 5.67 | 4.11 | 3.73 | 4.58 |
| | July | 2.68 | 4.15 | 2.95 | 4.06 | 7.11 | 5.60 | 4.14 | 3.86 | 4.55 |
| | August | 2.69 | 4.12 | 2.95 | 3.69 | 7.23 | 5.47 | 4.15 | 3.76 | 4.49 |
| | September | 2.62 | 4.34 | 2.84 | 4.02 | 7.17 | 5.53 | 4.24 | 3.80 | 4.61 |
| | October | 2.63 | 4.19 | 2.96 | 3.99 | 6.80 | 5.54 | 4.17 | R3.72 | 4.68 |
| | November | 2.61 | 3.43 | 3.13 | 3.92 | 6.31 | 5.56 | 4.21 | 3.72 | 4.84 |
| | December | 2.57 | 3.34 | 2.95 | 3.97 | 6.05 | 5.60 | 4.25 | R3.69 | 5.06 |
| | | Average | 2.66 | 4.08 | 2.91 | 3.95 | 6.12 | 5.55 | 4.22 | R3.70 |
| 1985 | January | R2.64 | 3.21 | 2.89 | 3.89 | R5.97 | R5.62 | R4.22 | R3.74 | R5.12 |
| | February | 2.71 | 3.08 | 2.87 | 3.94 | R5.86 | R5.53 | R4.26 | R3.68 | R5.16 |
| | March | R2.62 | 3.29 | 2.90 | 3.97 | R5.99 | R5.59 | R4.16 | R3.74 | R5.06 |
| | April | R2.64 | 3.39 | 2.86 | R3.91 | 6.11 | R5.65 | R4.01 | R3.72 | R4.89 |
| | May | R2.53 | 3.32 | 2.89 | R3.89 | 6.59 | R5.59 | R3.88 | R3.57 | R4.64 |
| | June | R2.58 | 3.40 | 3.00 | 3.86 | 6.96 | R5.65 | R3.78 | R3.56 | R4.50 |
| | July | R2.51 | 3.41 | 2.82 | 3.69 | R7.07 | 5.44 | R3.92 | R3.56 | R4.51 |
| | August | R2.47 | 3.28 | 2.69 | 3.70 | 7.21 | 5.42 | R3.94 | R3.46 | R4.43 |
| | September | R2.42 | 3.28 | 2.76 | 3.68 | R7.06 | R5.37 | R3.84 | R3.40 | R4.44 |
| | October | R2.37 | 3.16 | 2.68 | R3.59 | R6.50 | R5.30 | R3.87 | R3.37 | R4.48 |
| | November | R2.36 | 2.88 | 2.62 | 3.46 | 6.13 | R5.39 | R3.84 | R3.38 | R4.67 |
| | December | R2.28 | 2.79 | 2.67 | 3.45 | R5.70 | 5.25 | R3.70 | R3.29 | R4.74 |
| | | Average | R2.51 | 3.18 | 2.81 | 3.75 | R6.12 | 5.50 | R3.95 | R3.55 |
| 1986 | January | R2.21 | 2.81 | 2.64 | 3.52 | 5.63 | 5.30 | R3.87 | R3.20 | R4.90 |
| | February | R2.08 | 2.79 | 2.60 | 3.52 | 5.67 | 5.29 | R3.68 | R2.85 | R4.82 |
| | March | R2.00 | 3.05 | 2.48 | 3.50 | 5.70 | 5.29 | R3.51 | R2.60 | R4.68 |
| | April | R1.84 | 3.14 | 2.37 | 3.33 | 5.88 | 5.26 | R3.31 | R2.44 | R4.38 |
| | May | R1.72 | 2.75 | 2.47 | 3.15 | 6.15 | 5.20 | R3.04 | R2.37 | R4.01 |
| | June | R1.66 | 2.56 | 2.48 | 3.11 | R6.66 | R5.15 | 2.96 | R2.25 | R3.74 |
| | July | 1.64 | 2.78 | 2.40 | R3.08 | R6.84 | R5.07 | R2.79 | 2.15 | 3.47 |
| | August | 1.62 | 2.22 | 2.59 | 3.04 | 6.93 | 4.84 | 2.75 | 2.23 | 3.47 |
| | September | NA | NA | NA | 3.02 | 6.82 | 4.88 | 2.81 | NA | NA |

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.

³Prices shown on this page are intended to include all taxes. See Note 8 in the Notes and Sources for this section.

⁴The 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.

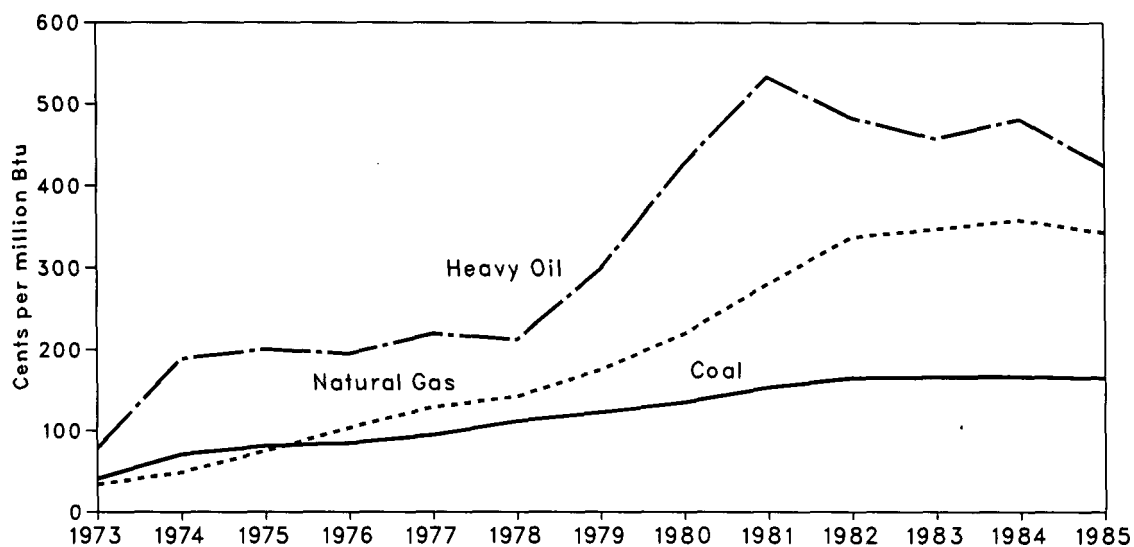
• Data for 1973 through December 1985 are final. All other data are preliminary unless otherwise indicated.

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

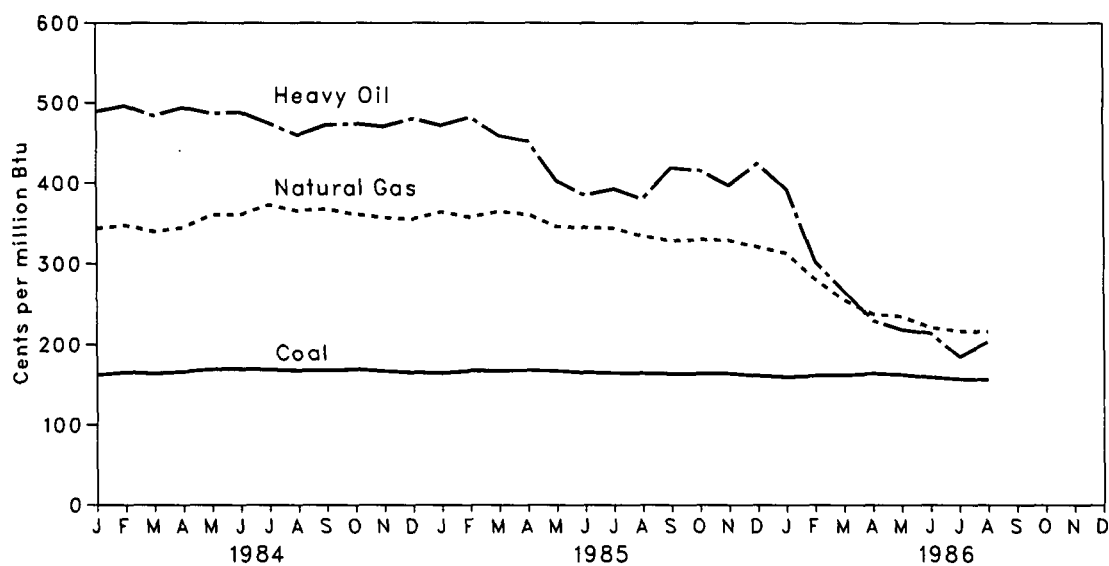
Price

Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants

Yearly



Monthly



Price

Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants¹

| | | Coal | Heavy Oil ² | Natural Gas ³ | All Fossil Fuels ² |
|-----------------------|----------------|--------------|------------------------|--------------------------|-------------------------------|
| Cents per million Btu | | | | | |
| 1973 | Average | 40.5 | 78.5 | 33.8 | 47.6 |
| 1974 | Average | 70.9 | 189.0 | 48.2 | 91.4 |
| 1975 | Average | 81.4 | 200.5 | 75.2 | 104.4 |
| 1976 | Average | 84.8 | 195.2 | 103.4 | 111.9 |
| 1977 | Average | 94.7 | 219.8 | 129.1 | 129.7 |
| 1978 | Average | 111.6 | 212.5 | 142.2 | 141.1 |
| 1979 | Average | 122.4 | 298.8 | 174.9 | 163.9 |
| 1980 | Average | 135.1 | 426.7 | 219.9 | 192.8 |
| 1981 | Average | 153.2 | 533.4 | 280.5 | 225.6 |
| 1982 | Average | 164.7 | 483.2 | 337.6 | 224.9 |
| 1983 | Average | 165.6 | 457.8 | 347.4 | 220.6 |
| 1984 | January | 161.6 | 488.9 | 343.7 | 221.0 |
| | February | 164.9 | 496.3 | 347.5 | 217.4 |
| | March | 163.4 | 484.0 | 339.8 | 208.4 |
| | April | 165.7 | 494.1 | 344.4 | 210.6 |
| | May | 168.6 | 486.9 | 360.4 | 220.3 |
| | June | 169.1 | 488.3 | 360.9 | 223.2 |
| | July | 168.2 | 474.6 | 373.1 | 231.3 |
| | August | 167.2 | 459.6 | 365.6 | 223.5 |
| | September | 167.4 | 472.5 | 368.0 | 217.5 |
| | October | 168.7 | 474.1 | 361.4 | 218.8 |
| | November | 166.6 | 470.6 | 357.2 | 216.8 |
| | December | 165.0 | 480.4 | 355.4 | 218.7 |
| | Average | 166.4 | 481.2 | 358.3 | 219.2 |
| 1985 | January | 164.1 | 472.0 | 364.4 | 218.7 |
| | February | 167.0 | 482.4 | 358.1 | 218.1 |
| | March | 167.1 | 458.8 | 364.9 | 209.5 |
| | April | 167.6 | 452.1 | 361.6 | 210.6 |
| | May | 166.8 | 403.1 | 346.1 | 206.3 |
| | June | 165.0 | 384.9 | 344.8 | 208.1 |
| | July | 164.2 | 392.8 | 344.0 | 217.4 |
| | August | 164.0 | 380.5 | 334.8 | 211.1 |
| | September | 163.2 | 419.0 | 328.7 | 204.9 |
| | October | 163.5 | 415.8 | 330.4 | 204.3 |
| | November | 163.6 | 397.2 | 329.3 | 204.5 |
| | December | 161.0 | 424.3 | 320.9 | 202.9 |
| | Average | 164.8 | 424.4 | 343.1 | 209.6 |
| 1986 | January | 159.5 | 392.6 | 313.5 | 194.7 |
| | February | 161.1 | 302.3 | 281.0 | 185.4 |
| | March | 161.7 | 266.5 | 255.8 | 179.8 |
| | April | 163.6 | 229.7 | 237.8 | 177.7 |
| | May | 162.3 | 218.9 | 235.1 | 177.7 |
| | June | 159.2 | 214.4 | 221.4 | 174.1 |
| | July | 157.0 | 184.3 | 217.2 | 171.1 |
| | August | 156.1 | 203.8 | 216.4 | 170.4 |

¹Data 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.

²See Note 10 in the Notes and Sources for this section.

³Includes supplemental gaseous fuels.

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

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

Price

Average Retail Electricity Prices¹

| | | Residential | | Commercial | | Industrial | | Other | | Total ³ | |
|-------------------------|----------------|-------------------------|------------|-------------------------|------------|-------------------------|------------|-------------------------|------------|-------------------------|------------|
| | | Old Series ² | New Series | Old Series ² | New Series | Old Series ² | New Series | Old Series ² | New Series | Old Series ² | New Series |
| Cents per kilowatt-hour | | | | | | | | | | | |
| 1973 | Average | 2.54 | | 2.41 | | 1.25 | | 2.10 | | 1.96 | |
| 1974 | Average | 3.10 | | 3.04 | | 1.69 | | 2.75 | | 2.49 | |
| 1975 | Average | 3.51 | | 3.45 | | 2.07 | | 3.08 | | 2.92 | |
| 1976 | Average | 3.73 | | 3.69 | | 2.21 | | 3.27 | | 3.09 | |
| 1977 | Average | 4.05 | | 4.09 | | 2.50 | | 3.51 | | 3.42 | |
| 1978 | Average | 4.31 | | 4.36 | | 2.79 | | 3.62 | | 3.69 | |
| 1979 | Average | 4.64 | | 4.68 | | 3.05 | | 3.96 | | 3.99 | |
| 1980 | Average | 5.36 | | 5.48 | | 3.69 | | 4.76 | | 4.73 | |
| 1981 | Average | 6.20 | | 6.29 | | 4.29 | | 5.28 | | 5.46 | |
| 1982 | Average | 6.86 | | 6.86 | | 4.95 | | 5.92 | | 6.13 | |
| 1983 | Average | 7.18 | | 7.02 | | 4.96 | | 6.38 | | 6.30 | |
| 1984 | January | 6.76 | | 6.79 | | 4.86 | | 6.34 | | 6.13 | |
| | February | 6.96 | | 6.99 | | 4.85 | | 6.53 | | 6.19 | |
| | March | 7.16 | | 7.12 | | 4.88 | | 6.69 | | 6.26 | |
| | April | 7.32 | | 7.23 | | 4.87 | | 6.74 | | 6.30 | |
| | May | 7.58 | | 7.28 | | 4.92 | | 6.86 | | 6.39 | |
| | June | 7.89 | | 7.48 | | 5.10 | | 6.79 | | 6.66 | |
| | July | 7.99 | | 7.51 | | 5.22 | | 6.99 | | 6.83 | |
| | August | 8.05 | | 7.51 | | 5.16 | | 6.77 | | 6.83 | |
| | September | 8.05 | | 7.64 | | 5.26 | | 7.07 | | 6.89 | |
| | October | 7.95 | | 7.63 | | 5.14 | | 6.88 | | 6.71 | |
| | November | 7.61 | | 7.42 | | 5.06 | | 7.00 | | 6.53 | |
| | December | 7.33 | | 7.28 | | 5.07 | | 6.72 | | 6.47 | |
| | Average | 7.54 | | 7.33 | | 5.04 | | 6.78 | | 6.52 | |
| 1985 | January | 7.28 | | 7.25 | | 5.12 | | 6.80 | | 6.52 | |
| | February | 7.19 | | 7.21 | | 5.12 | | 6.77 | | 6.47 | |
| | March | 7.48 | | 7.36 | | 5.13 | | 7.01 | | 6.55 | |
| | April | 7.73 | | 7.44 | | 5.09 | | 6.95 | | 6.58 | |
| | May | 7.98 | | 7.55 | | 5.08 | | 7.09 | | 6.66 | |
| | June | 8.15 | | 7.60 | | 5.24 | | 7.07 | | 6.86 | |
| | July | 8.24 | | 7.64 | | 5.36 | | 7.13 | | 7.02 | |
| | August | 8.18 | | 7.55 | | 5.20 | | 7.01 | | 6.92 | |
| | September | 8.18 | | 7.62 | | 5.24 | | 7.08 | | 6.95 | |
| | October | 8.05 | | 7.65 | | 5.19 | | 6.98 | | 6.80 | |
| | November | 7.73 | | 7.49 | | 5.10 | | 6.91 | | 6.63 | |
| | December | 7.44 | | 7.29 | | 5.10 | | 6.73 | | 6.56 | |
| | Average | 7.79 | | R7.47 | | R5.16 | | 6.96 | | R6.71 | |
| 1986 ⁴ | January | 7.34 | 7.02 | 7.29 | 7.05 | 5.16 | 4.97 | 7.00 | 6.38 | 6.60 | 6.34 |
| | February | 7.54 | 7.12 | 7.41 | 7.16 | 5.12 | 4.94 | 7.05 | 6.72 | 6.64 | 6.36 |
| | March | 7.59 | 7.23 | 7.47 | 7.22 | 5.12 | 4.94 | 7.29 | 6.75 | 6.63 | 6.37 |
| | April | 7.79 | 7.41 | 7.45 | 7.21 | 5.01 | 4.83 | 7.25 | 7.04 | 6.60 | 6.36 |
| | May | 7.82 | 7.43 | 7.39 | 7.11 | 5.05 | 4.87 | 7.22 | 6.85 | 6.59 | 6.33 |
| | June | 8.11 | 7.42 | 7.56 | 7.26 | 5.02 | 4.84 | 7.21 | 6.71 | 6.81 | 6.45 |
| | July | 8.20 | 7.77 | 7.49 | 7.08 | 5.32 | 5.08 | 7.19 | 6.77 | 7.01 | 6.67 |
| | August | 8.19 | 7.71 | 7.50 | 7.23 | 5.33 | 5.08 | 6.99 | 6.57 | 7.01 | 6.68 |
| | September† | 8.16 | 7.77 | 7.57 | 7.29 | 5.20 | 4.99 | 7.34 | 6.99 | 6.91 | 6.62 |

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. That discrepancy could result in uncharacteristic increases or decreases in the monthly prices.

²Data 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.

³Average price for total sales to ultimate consumers.

⁴See Note 9 in the Notes and Sources for this section.

⁵The residential price reflects unbilled sales for eight utilities. Major unbilled residential sales were reported in the West South Central Census Division.

†Initial estimates. R = Revised data.

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

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

Notes and Sources for the Price Section

Notes

1. The average domestic first purchase price represents the average price at which all domestic crude oil is purchased. Prior to February 1976, the price represented an estimate of the average of posted prices; after February 1976, the price represents an average of actual first purchase prices. The data series was previously called "Actual Domestic Average Wellhead Price."

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 sur-

vey 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. 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.

7. 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.

8. 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.

9. Beginning with January 1986, national average price estimates are based on a statistically derived sample of both publicly and privately owned electric utilities. Prior to that time, national average price estimates were based on a sample of only privately owned electric utilities. Respondents to Form EIA-826, "Electric Utility Company Monthly Statement," consist of a sample of 187 electric utilities that were statistically chosen using stratification techniques. The respondents were chosen from more than 3,000 electric utilities reporting on Form EIA-861, "Annual Electric Utility Report." This schema differs from the cut-off sample used prior to January 1986. Data are shown for both the old and new series. Publication of both series will continue until sufficient information exists to estimate historical data based on the new series.

10. 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.

Notes and Sources for the Price Section (continued)

Sources

Petroleum and Petroleum Products: • Actual domestic average wellhead prices—Economic Regulatory Administration (ERA), January 1976: FEA Form 90, "Crude Petroleum Production Monthly Report"; February 1976 through September 1979: FEA Form P124, "Domestic Crude Oil Purchaser's (Monthly) Report"; October 1979 through December 1982: ERA Form 182, "Domestic Crude Oil First Purchase Report"; January 1983 forward: EIA Form 182, "Domestic Crude Oil First Purchase Report."

• Crude oil imports costs—Energy Information Administration (EIA), 1975 through January 1979: FEA Form F701-M-0, "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."

• Refiner acquisition costs—EIA, January 1976: FEO Form 96, "Monthly Cost Allocation Report"; February 1976 through June 1978: FEA Form P110-M-1, "Refiners' Monthly 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.

• No. 2 Distillate to Residences—January 1983 forward, EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers/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 Supply/Price Monitoring Report" and EIA Form 9A, "No. 2 Distillate Price Monitoring Report." See Note 8 on the previous page for additional information on the estimated 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.

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 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".

• 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 Disposition." 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 in September 1986 was 54.3 million barrels per day, down 3.9 million from the level in the previous month.

Organization of Petroleum Exporting Countries (OPEC) production during September 1986 averaged 17.1 million barrels per day, down 4.0 million from the level during the previous month. Production by the Arab members of OPEC during September 1986 averaged 10.9 million barrels per day, down 2.8 million from the August 1986 level. During September 1986, production decreased in Saudi Arabia by 1.6 million barrels per day. Production decreased in Kuwait by 615,000 barrels per day, in the United Arab Emirates by 280,000, in Libya by 160,000, and in Qatar by 120,000 barrels per day. Production decreased in all the non-Arab OPEC countries during September 1986. In Nigeria production declined by 465,000 barrels per day, in Venezuela by 325,000, in Iran by 200,000, and in Indonesia by 110,000 barrels per day.

World crude oil production in the first three quarters of 1986 averaged 55.5 million barrels per day, up 6.2 percent compared with production in the first three quarters of 1985. OPEC crude oil production during the first three quarters of 1986 averaged 18.6 million barrels per day, a 20.0-percent increase compared with production in the same period in 1985. Production by Arab members of OPEC during the first three quarters of 1986 averaged 11.6 million barrels per day, up 35.2 percent compared with production during the first three quarters of 1985.

Among the non-OPEC nations in September 1986, production decreased in Canada by 45,000 barrels per day, in the United Kingdom by 40,000, and in the United States by 37,000 barrels per day.

Petroleum Consumption

In August 1986, consumption in all Organization for Economic Cooperation and Development (OECD) countries was 34.8 million barrels per day, 2.9 percent higher than the level in August 1985. Consumption was higher in the United States by 3.9 percent and in Japan

by 0.1 percent, but lower in Canada by 0.3 percent, compared with levels 1 year earlier. Consumption in all European OECD countries combined in August 1986 was 11.4 million barrels per day, 2.8 percent above the level in the previous August. Consumption was higher in France by 13.9 percent, in the United Kingdom by 7.5 percent, and in Italy by 3.2 percent, but down in West Germany by 16.9 percent, compared with levels 1 year earlier.

Petroleum Stocks

For all OECD countries, petroleum ending stocks in August 1986 totaled 3.4 billion barrels, 6.5 percent higher than at the end of August 1985. Stocks were higher in Japan by 7.5 percent and in the United States by 6.0 percent, but lower in Canada by 3.3 percent, compared with levels 1 year earlier. Ending stock levels in all European OECD countries in August 1986 were 1.1 billion barrels, 7.9 percent higher than in August 1985. Stocks were up in Italy by 12.1 percent, in the United Kingdom by 8.8 percent, and in West Germany by 3.9 percent, but down in France by 3.8 percent, compared with levels 1 year earlier.

Nuclear Electricity Generation

In September 1986, the 20 non-Communist countries with nuclear power capacity produced 110.2 gross terawatt-hours (billion kilowatt-hours) of nuclear generated electricity. That generation represents an increase of 3.4 percent compared with September 1985 generation. During the first three quarters of 1986, nuclear based electricity increased 9.0 percent, compared with the nuclear electricity generation for the first three quarters of 1985. The United States accounted for 38.2 gross terawatt-hours, 34.7 percent of total nuclear generation in September 1986.

Based on *Nucleonics Week* information, as of September 30, 1986, there were 315 operable nuclear power generating units in 20 non-Communist countries. The 315 units had a collective gross generating capacity of 244.6 gigawatts (million kilowatts). In September 1986, the 99 operable U.S. units accounted for 89.5 gross gigawatts, 36.6 percent of total non-Communist nuclear generating capacity.

International

Crude Oil Production for Major Petroleum Producing Countries

| | | Algeria | Iraq | Kuwait ¹ | Libya | Qatar | Saudi Arabia ¹ | United Arab Emirates | Arab Members of OPEC ² | Indonesia | Iran | |
|-------------|----------------|--------------------------|------------|---------------------|--------------|--------------|---------------------------|----------------------|-----------------------------------|---------------|--------------|--------------|
| | | Thousand barrels 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 | 2,563 | 2,131 | 1,983 | 487 | 8,301 | 1,831 | 18,457 | 1,635 | 5,242 | |
| 1979 | Average | 1,154 | 3,477 | 2,500 | 2,092 | 508 | 9,532 | 1,831 | 21,094 | 1,591 | 3,168 | |
| 1980 | Average | 1,012 | 2,514 | 1,656 | 1,787 | 472 | 9,900 | 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 | |
| 1982 | Average | 710 | 1,012 | 823 | 1,150 | 330 | 6,483 | 1,250 | 11,758 | 1,339 | 2,214 | |
| 1983 | 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 | 1,415 | 2,200 | |
| | February | 600 | 1,000 | 1,240 | 1,100 | 315 | 5,040 | 1,200 | 10,495 | 1,515 | 2,300 | |
| | March | 600 | 1,200 | 1,293 | 1,100 | 440 | 4,843 | 1,205 | 10,681 | 1,505 | 2,400 | |
| | April | 600 | 1,200 | 1,250 | 1,200 | 400 | 5,150 | 1,205 | 11,005 | 1,512 | 2,200 | |
| | May | 650 | 1,200 | 1,200 | 1,200 | 400 | 5,000 | 1,200 | 10,850 | 1,415 | 1,700 | |
| | June | 700 | 1,200 | 1,200 | 1,250 | 500 | 5,450 | 1,225 | 11,525 | 1,465 | 2,200 | |
| | July | 650 | 1,200 | 1,110 | 1,100 | 430 | 5,010 | 1,090 | 10,590 | 1,340 | 2,400 | |
| | August | 650 | 1,300 | 1,220 | 1,000 | 400 | 4,520 | 990 | 10,080 | 1,360 | 1,800 | |
| | September | 650 | 1,300 | 1,183 | 1,000 | 480 | 4,133 | 1,110 | 9,856 | 1,350 | 1,900 | |
| | October | 650 | 1,200 | 1,129 | 1,000 | 380 | 4,129 | 1,060 | 9,548 | 1,375 | 2,100 | |
| | November | 650 | 1,300 | 990 | 1,000 | 280 | 3,990 | 1,060 | 9,270 | 1,300 | 2,400 | |
| | December | 600 | 1,300 | 990 | 1,000 | 260 | 3,590 | 1,210 | 8,950 | 1,395 | 2,500 | |
| | | Average | 638 | 1,209 | 1,157 | 1,087 | 394 | 4,663 | 1,146 | 10,294 | 1,412 | 2,174 |
| 1985 | January | 640 | 1,250 | 1,110 | 1,000 | 270 | 3,510 | 1,100 | 8,880 | 1,310 | 1,900 | |
| | February | 660 | 1,250 | 1,125 | 1,000 | 290 | 4,025 | 1,160 | 9,510 | 1,330 | 2,100 | |
| | March | 690 | 1,200 | 1,085 | 1,000 | 315 | 3,835 | 1,215 | 9,340 | 1,300 | 2,200 | |
| | April | 650 | 1,370 | 970 | 1,000 | 260 | 3,470 | 1,215 | 8,935 | 1,300 | 2,300 | |
| | May | 650 | 1,300 | 940 | 1,100 | 290 | 2,590 | 1,160 | 8,030 | 1,200 | 2,000 | |
| | June | 600 | 1,370 | 920 | 980 | 300 | 2,420 | 1,100 | 7,690 | 1,050 | 2,200 | |
| | July | 600 | 1,450 | 940 | 910 | 320 | 2,740 | 1,155 | 8,115 | 1,300 | 2,200 | |
| | August | 600 | 1,400 | 940 | 910 | 320 | 2,340 | 1,200 | 7,710 | 1,300 | 2,400 | |
| | September | 650 | 1,600 | 980 | 1,100 | 295 | 2,980 | 1,285 | 8,890 | 1,200 | 2,200 | |
| | October | 650 | 1,650 | 1,055 | 1,200 | 320 | 3,910 | 1,255 | 10,040 | 1,260 | 2,300 | |
| | November | 680 | 1,700 | 1,050 | 1,200 | 300 | 4,200 | 1,250 | 10,380 | 1,300 | 2,200 | |
| | December | 650 | 1,650 | 1,080 | 1,300 | 335 | 4,680 | 1,225 | 10,920 | 1,250 | 2,400 | |
| | | Average | 643 | 1,433 | 1,016 | 1,059 | 301 | 3,388 | 1,193 | 9,033 | 1,258 | 2,201 |
| 1986 | January | 650 | 1,650 | 1,115 | 1,100 | 360 | 4,465 | 1,215 | 10,555 | 1,420 | 2,100 | |
| | February | 550 | 1,650 | 1,315 | 900 | 325 | 4,715 | 1,415 | 10,870 | 1,300 | 2,000 | |
| | March | 600 | 1,650 | 1,515 | 900 | 350 | 4,115 | 1,365 | 10,495 | 1,300 | 1,800 | |
| | April | 600 | 1,500 | 1,520 | 900 | 200 | 4,720 | 1,315 | 10,755 | 1,340 | 2,000 | |
| | May | 600 | 1,700 | 1,510 | 1,100 | 360 | 4,360 | 1,465 | 11,095 | 1,425 | 2,100 | |
| | June | 600 | 1,800 | 1,650 | 1,200 | 420 | 5,250 | 1,565 | 12,485 | 1,350 | 2,200 | |
| | July | 600 | 1,820 | 1,800 | 1,150 | 400 | 5,800 | 1,565 | 13,135 | 1,345 | 2,200 | |
| | August | 600 | 1,800 | 1,730 | 1,150 | 400 | 6,430 | 1,595 | 13,705 | 1,420 | 1,700 | |
| | September | 600 | 1,800 | 1,115 | 990 | 280 | 4,815 | 1,315 | 10,915 | 1,310 | 1,500 | |
| | | Average | 601 | 1,708 | 1,477 | 1,045 | 345 | 4,966 | 1,424 | 11,566 | 1,358 | 1,956 |

¹Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In September 1986, total production in that region amounted to approximately 430,000 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.

⁴Other is a calculated total derived from the difference between world production and the nations represented above.

R=Revised data.

Footnotes continued on following page.

International

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 barrels per day | | | | | | | | | | |
| 1973 | Average | 2,054 | 3,366 | 30,989 | 1,800 | 465 | 2 | 9,208 | 1,090 | 8,329 | 3,690 | 55,573 |
| 1974 | Average | 2,255 | 2,976 | 30,729 | 1,684 | 571 | 2 | 8,774 | 1,315 | 8,856 | 3,838 | 55,769 |
| 1975 | Average | 1,783 | 2,346 | 27,155 | 1,439 | 705 | 12 | 8,375 | 1,490 | 9,472 | 4,116 | 52,764 |
| 1976 | Average | 2,067 | 2,294 | 30,738 | 1,295 | 831 | 245 | 8,132 | 1,670 | 9,985 | 4,297 | 57,193 |
| 1977 | Average | 2,085 | 2,238 | 31,298 | 1,320 | 981 | 768 | 8,245 | 1,874 | 10,485 | 4,551 | 59,522 |
| 1978 | Average | 1,897 | 2,165 | 29,805 | 1,313 | 1,209 | 1,082 | 8,707 | 2,082 | 10,950 | 4,720 | 59,868 |
| 1979 | Average | 2,302 | 2,356 | 30,928 | 1,496 | 1,461 | 1,568 | 8,552 | 2,122 | 11,187 | 5,039 | 62,353 |
| 1980 | Average | 2,055 | 2,168 | 26,891 | 1,435 | 1,936 | 1,622 | 8,597 | 2,114 | 11,460 | 5,170 | 59,225 |
| 1981 | Average | 1,433 | 2,102 | 22,646 | 1,285 | 2,313 | 1,811 | 8,572 | 2,012 | 11,552 | 5,355 | 55,546 |
| 1982 | Average | 1,295 | 1,895 | 18,868 | 1,271 | 2,748 | 2,065 | 8,649 | 2,045 | 11,615 | 5,639 | 52,900 |
| 1983 | Average | 1,241 | 1,801 | 17,583 | 1,356 | 2,689 | 2,291 | 8,688 | 2,120 | 11,684 | 6,243 | 52,654 |
| 1984 | January | 1,335 | 1,825 | 17,885 | 1,370 | 2,700 | 2,510 | 8,868 | 2,225 | 11,650 | 6,695 | 53,903 |
| | February | 1,530 | 1,800 | 18,035 | 1,445 | 2,785 | 2,585 | 8,874 | 2,225 | 11,650 | 6,684 | 54,283 |
| | March | 1,525 | 1,800 | 18,316 | 1,475 | 2,740 | 2,465 | 8,672 | 2,225 | 11,500 | 6,616 | 54,009 |
| | April | 1,270 | 1,800 | 18,202 | 1,430 | 2,800 | 2,460 | 8,862 | 2,250 | 11,500 | 6,702 | 54,206 |
| | May | 1,270 | 1,825 | 17,475 | 1,415 | 2,830 | 2,425 | 8,955 | 2,250 | 11,645 | 6,797 | 53,792 |
| | June | 1,370 | 1,790 | 18,770 | 1,470 | 2,850 | 2,335 | 8,852 | 2,250 | 11,645 | 6,867 | 55,039 |
| | July | 1,175 | 1,845 | 17,775 | 1,515 | 2,875 | 2,455 | 8,885 | 2,330 | 11,620 | 6,896 | 54,351 |
| | August | 1,125 | 1,805 | 16,585 | 1,435 | 2,710 | 2,285 | 8,809 | 2,330 | 11,620 | 6,904 | 52,678 |
| | September | 1,370 | 1,835 | 16,736 | 1,330 | 2,735 | 2,420 | 8,993 | 2,365 | 11,540 | 7,015 | 53,134 |
| | October | 1,565 | 1,785 | 16,793 | 1,460 | 2,705 | 2,600 | 8,906 | 2,365 | 11,540 | 7,176 | 53,545 |
| | November | 1,565 | 1,710 | 16,665 | 1,460 | 2,775 | 2,590 | 8,979 | 2,365 | 11,500 | 7,228 | 53,562 |
| | December | 1,565 | 1,755 | 16,585 | 1,445 | 2,860 | 2,630 | 8,897 | 2,365 | 11,500 | 7,269 | 53,551 |
| | Average | 1,388 | 1,798 | 17,481 | 1,438 | 2,780 | 2,480 | 8,879 | 2,296 | 11,576 | 6,904 | 53,834 |
| 1985 | January | 1,400 | 1,670 | 15,570 | 1,450 | 2,635 | 2,755 | 8,740 | 2,450 | 11,150 | 7,255 | 52,005 |
| | February | 1,690 | 1,675 | 16,725 | 1,450 | 2,685 | 2,625 | 9,025 | 2,450 | 11,150 | 7,294 | 53,404 |
| | March | 1,700 | 1,680 | 16,650 | 1,500 | 2,810 | 2,575 | 9,095 | 2,450 | 11,150 | 7,367 | 53,597 |
| | April | 1,600 | 1,675 | 16,240 | 1,465 | 2,825 | 2,610 | 9,043 | 2,480 | 11,150 | 7,447 | 53,260 |
| | May | 1,450 | 1,685 | 14,795 | 1,475 | 2,790 | 2,520 | 9,132 | 2,480 | 11,190 | 7,412 | 51,794 |
| | June | 1,100 | 1,670 | 14,110 | 1,450 | 2,555 | 2,430 | 9,022 | 2,480 | 11,130 | 7,179 | 50,356 |
| | July | 1,000 | 1,670 | 14,715 | 1,430 | 2,620 | 2,365 | 8,949 | 2,490 | 11,250 | 7,511 | 51,330 |
| | August | 1,200 | 1,670 | 14,710 | 1,450 | 2,795 | 2,195 | 8,803 | 2,490 | 11,290 | 7,502 | 51,235 |
| | September | 1,450 | 1,670 | 15,855 | 1,450 | 2,815 | 2,575 | 8,954 | 2,490 | 11,350 | 7,595 | 53,084 |
| | October | 1,700 | 1,670 | 17,420 | 1,450 | 2,750 | 2,645 | 8,970 | 2,500 | 11,390 | 7,593 | 54,718 |
| | November | 1,760 | 1,675 | 17,765 | 1,450 | 2,795 | 2,655 | 8,902 | 2,500 | 11,400 | 7,661 | 55,128 |
| | December | 1,620 | 1,680 | 18,320 | 1,553 | 2,740 | 2,420 | 9,030 | 2,500 | 11,390 | 7,633 | 55,586 |
| | Average | 1,471 | 1,674 | 16,068 | 1,465 | 2,735 | 2,530 | 8,971 | 2,480 | 11,250 | 7,455 | 52,954 |
| 1986 | January | 1,200 | 1,670 | 17,395 | 1,540 | 2,510 | 2,666 | 8,942 | 2,500 | 11,325 | 7,656 | 54,534 |
| | February | 1,400 | 1,670 | 17,690 | 1,475 | 2,125 | 2,725 | 8,940 | 2,500 | 11,325 | 7,788 | 54,568 |
| | March | 1,600 | 1,670 | 17,325 | 1,480 | 2,220 | 2,710 | 8,939 | 2,500 | 11,345 | 7,695 | 54,214 |
| | April | 1,700 | 1,670 | 17,925 | 1,475 | 2,360 | 2,580 | 8,815 | 2,500 | 11,355 | 7,271 | 54,281 |
| | May | 1,600 | 1,670 | 18,350 | 1,425 | 2,525 | 2,545 | 8,805 | 2,500 | 11,365 | 7,726 | 55,241 |
| | June | 1,540 | 1,690 | 19,735 | 1,400 | 2,545 | 2,198 | 8,792 | 2,500 | 11,365 | 7,673 | 56,208 |
| | July | 1,600 | 1,750 | 20,500 | 1,460 | 2,535 | 2,608 | 8,737 | 2,500 | 11,365 | 7,672 | 57,377 |
| | August | 1,765 | 2,020 | 21,045 | 1,545 | 2,565 | R2,598 | 8,708 | 2,500 | 11,390 | R7,848 | R58,199 |
| | September | 1,300 | 1,695 | 17,095 | 1,500 | 2,565 | 2,558 | 8,671 | 2,530 | 11,500 | 7,903 | 54,322 |
| | Average | 1,524 | 1,724 | 18,575 | 1,478 | 2,442 | 2,576 | 8,816 | 2,503 | 11,371 | 7,692 | 55,453 |

Footnotes continued.

Notes: • U.S. geographic coverage is the 50 States and the District of Columbia.

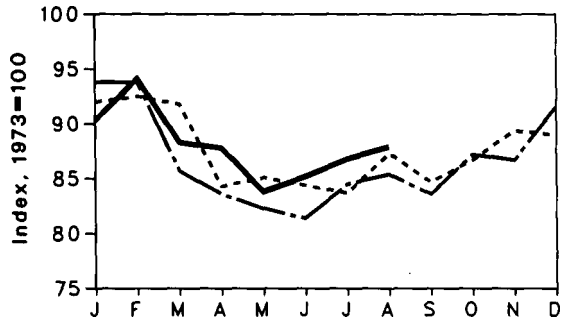
• Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.

Sources: • 1973-1985 annual data (except the United States): Energy Information Administration (EIA), *International Energy Annual 1985*. • 1973-1985 U.S. annual and monthly data: EIA, *Petroleum Supply Monthly*. • 1983-1985 monthly data (except United States and world): Central Intelligence Agency, "International Energy Statistical Review," and other industry sources. • 1983-1985 monthly data for world: Sum of data for all countries using above sources.

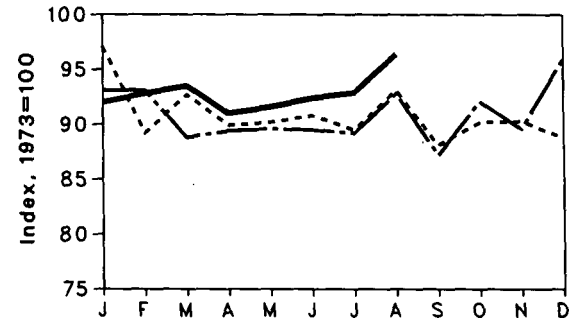
International

Petroleum Consumption for OECD Countries

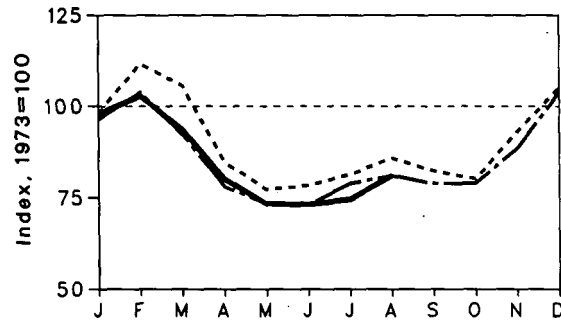
Total OECD



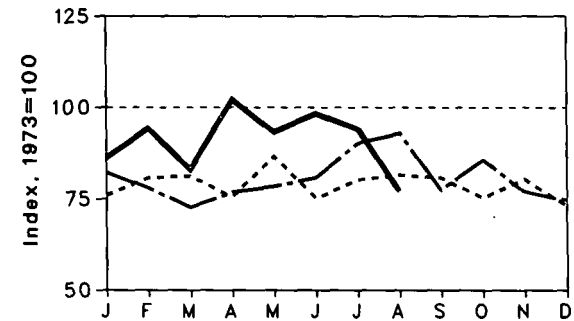
United States



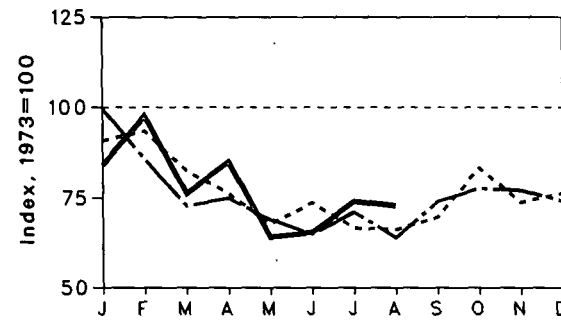
Japan



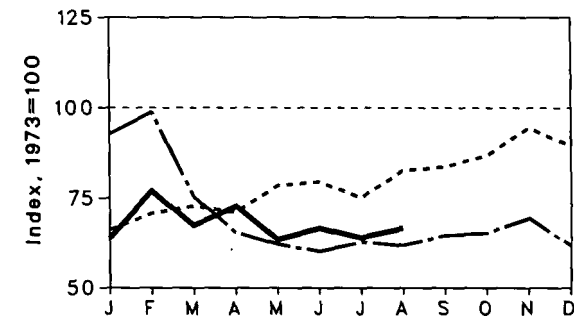
West Germany



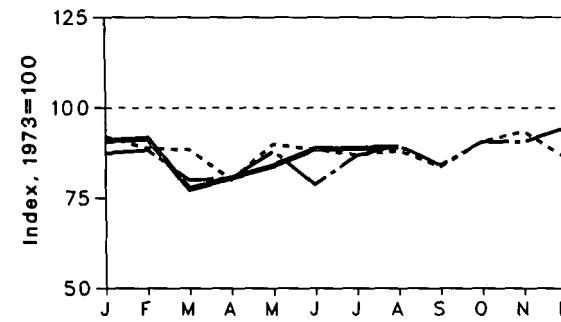
France



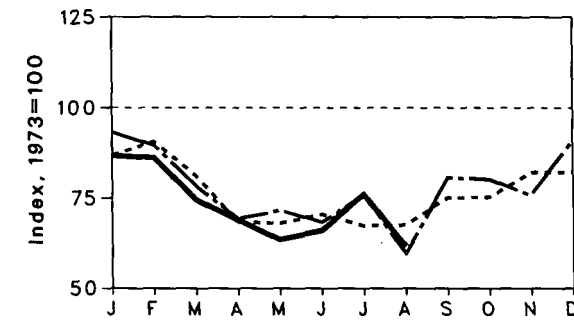
United Kingdom



Canada



Italy



----- 1984 - - - - - 1985 _____ 1986

International

Petroleum Consumption for OECD Countries¹

| | | Canada | France | Italy | Japan | United Kingdom | United States | West Germany | Total OECD Europe ² | Other OECD ³ | Total OECD ¹ | |
|--------------------------|----------------|----------------|--------------|--------------|--------------|----------------|---------------|---------------|--------------------------------|-------------------------|-------------------------|---------------|
| Thousand barrels per day | | | | | | | | | | | | |
| 1973 | Average | 1,707 | 2,422 | 2,147 | 5,071 | 2,301 | 17,308 | 2,915 | 14,521 | 975 | 39,582 | |
| 1974 | Average | 1,740 | 2,260 | 2,090 | 4,960 | 2,138 | 16,653 | 2,612 | 13,708 | 1,017 | 38,078 | |
| 1975 | Average | 1,694 | 2,136 | 1,583 | 4,502 | 1,872 | 16,322 | 2,515 | 12,656 | 915 | 36,089 | |
| 1976 | Average | 1,743 | 2,280 | 1,801 | 4,771 | 1,856 | 17,461 | 2,708 | 13,509 | 1,024 | 38,508 | |
| 1977 | Average | 1,751 | 2,235 | 1,973 | 5,231 | 1,880 | 18,431 | 2,837 | 13,847 | 1,079 | 40,339 | |
| 1978 | Average | 1,737 | 2,169 | 2,176 | 5,142 | 1,850 | 18,847 | 3,048 | 14,017 | 1,070 | 40,813 | |
| 1979 | Average | 1,857 | 2,385 | 2,003 | 5,480 | 1,930 | 18,513 | 3,073 | 14,723 | 1,045 | 41,818 | |
| 1980 | Average | 1,947 | 2,256 | 1,876 | 4,960 | 1,725 | 17,056 | 2,707 | 13,511 | 1,126 | 38,600 | |
| 1981 | Average | 1,836 | 2,023 | 1,906 | 4,848 | 1,590 | 16,058 | 2,449 | 12,473 | 1,087 | 36,302 | |
| 1982 | Average | 1,816 | 1,940 | 1,782 | 4,554 | 1,587 | 15,296 | 2,324 | 12,092 | 1,132 | 34,690 | |
| 1983 | Average | 1,490 | 1,911 | 1,730 | 4,368 | 1,520 | 15,231 | 2,290 | 11,808 | 1,008 | 33,905 | |
| 1984 | January | 1,571 | 2,199 | 1,865 | 4,976 | 1,522 | 16,801 | 2,215 | 12,130 | 934 | 36,411 | |
| | February | 1,517 | 2,262 | 1,945 | 5,662 | 1,630 | 15,437 | 2,352 | 12,935 | 1,063 | 36,613 | |
| | March | 1,510 | 1,999 | 1,742 | 5,356 | 1,674 | 16,050 | 2,367 | 12,409 | 1,028 | 36,352 | |
| | April | 1,366 | 1,848 | 1,468 | 4,300 | 1,635 | 15,568 | 2,203 | 11,295 | 834 | 33,363 | |
| | May | 1,535 | 1,642 | 1,462 | 3,918 | 1,807 | 15,620 | 2,525 | 11,605 | 994 | 33,672 | |
| | June | 1,511 | 1,785 | 1,514 | 3,975 | 1,828 | 15,709 | 2,191 | 11,293 | 910 | 33,398 | |
| | July | 1,483 | 1,615 | 1,448 | 4,130 | 1,731 | 15,498 | 2,337 | 11,014 | 986 | 33,112 | |
| | August | 1,505 | 1,607 | 1,454 | 4,355 | 1,900 | 16,116 | 2,377 | 11,423 | 1,162 | 34,561 | |
| | September | 1,427 | 1,688 | 1,612 | 4,171 | 1,924 | 15,247 | 2,354 | 11,660 | 1,010 | 33,516 | |
| | October | 1,549 | 2,018 | 1,617 | 4,069 | 1,996 | 15,616 | 2,198 | 12,001 | 1,079 | 34,315 | |
| | November | 1,594 | 1,788 | 1,763 | 4,722 | 2,173 | 15,627 | 2,344 | 12,327 | 1,132 | 35,402 | |
| | December | 1,470 | 1,851 | 1,766 | 5,324 | 2,057 | 15,375 | 2,133 | 11,960 | 1,115 | 35,244 | |
| | | Average | 1,503 | 1,857 | 1,637 | 4,577 | 1,824 | 15,726 | 2,300 | 11,834 | 1,021 | 34,661 |
| 1985 | January | 1,491 | 2,411 | 2,001 | 4,887 | 2,130 | 16,109 | 2,393 | 13,592 | 1,031 | 37,111 | |
| | February | 1,508 | 2,075 | 1,923 | 5,262 | 2,274 | 16,121 | 2,274 | 13,168 | 1,078 | 37,138 | |
| | March | 1,364 | 1,763 | 1,682 | 4,680 | 1,738 | 15,373 | 2,120 | 11,434 | 1,069 | 33,921 | |
| | April | 1,372 | 1,817 | 1,487 | 3,962 | 1,507 | 15,472 | 2,238 | 11,136 | 1,146 | 33,088 | |
| | May | 1,501 | 1,671 | 1,537 | 3,721 | 1,432 | 15,504 | 2,284 | 10,739 | 1,094 | 32,559 | |
| | June | 1,344 | 1,575 | 1,469 | 3,701 | 1,385 | 15,483 | 2,356 | 10,617 | 1,058 | 32,203 | |
| | July | 1,483 | 1,723 | 1,627 | 4,003 | 1,445 | 15,434 | 2,630 | 11,451 | 1,091 | 33,462 | |
| | August | 1,527 | 1,551 | 1,281 | 4,109 | 1,425 | 16,060 | 2,708 | 11,099 | 1,015 | 33,810 | |
| | September | 1,435 | 1,792 | 1,733 | 4,002 | 1,487 | 15,099 | 2,259 | 11,485 | 1,075 | 33,096 | |
| | October | 1,546 | 1,882 | 1,723 | 4,008 | 1,503 | 15,944 | 2,499 | 12,042 | 971 | 34,511 | |
| | November | 1,546 | 1,867 | 1,629 | 4,487 | 1,596 | 15,503 | 2,245 | 11,693 | 1,088 | 34,317 | |
| | December | 1,614 | 1,798 | 1,951 | 5,259 | 1,423 | 16,611 | 2,176 | 11,704 | 1,071 | 36,259 | |
| | | Average | 1,478 | 1,826 | 1,669 | 4,336 | 1,608 | 15,726 | 2,350 | 11,673 | 1,065 | 34,278 |
| 1986 | January | 1,551 | 2,036 | 1,861 | R4,963 | 1,468 | 15,923 | 2,509 | R12,392 | R929 | R35,757 | |
| | February | 1,561 | 2,365 | 1,848 | 5,215 | 1,772 | 16,056 | 2,746 | R13,410 | R991 | R37,233 | |
| | March | 1,322 | 1,846 | 1,603 | 4,747 | 1,551 | 16,188 | 2,419 | R11,720 | R975 | R34,952 | |
| | April | R1,375 | R2,060 | 1,480 | 4,061 | 1,676 | 15,743 | 2,976 | R12,625 | R936 | R34,739 | |
| | May | R1,432 | R1,552 | 1,364 | 3,721 | 1,462 | 15,852 | 2,715 | R11,142 | R1,027 | R33,174 | |
| | June | R1,512 | R1,586 | 1,419 | 3,713 | 1,532 | 15,998 | 2,865 | R11,555 | R947 | R33,725 | |
| | July | R1,514 | R1,794 | 1,634 | R3,782 | R1,473 | 16,075 | 2,739 | R11,989 | R987 | R34,346 | |
| | August | 1,523 | 1,766 | 1,322 | 4,113 | 1,532 | 16,686 | 2,250 | 11,414 | 1,040 | 34,776 | |
| | | Average | 1,473 | 1,870 | 1,564 | 4,281 | 1,555 | 16,067 | 2,649 | 12,013 | 979 | 34,813 |

¹Organization for Economic Cooperation and Development (OECD) includes Canada, Japan, and the United States, as well as "Total OECD Europe" and "Other OECD."

²"Total OECD Europe" includes France, Italy, the United Kingdom, and West Germany, as well as Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

³"Other OECD" includes Australia, New Zealand, and the U.S. Territories.

R= Revised data.

Notes: • U.S. geographic coverage is the 50 States and the District of Columbia.

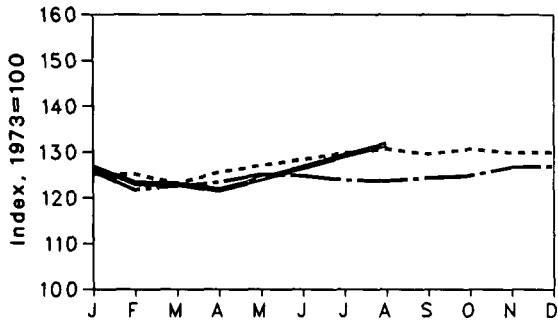
• Data for 1984 through 1986 are preliminary.

Sources: • U.S. data: EIA, *Petroleum Supply Monthly*. • OECD data: OECD, *Quarterly Oil Statistics, Monthly Oil Statistics*.

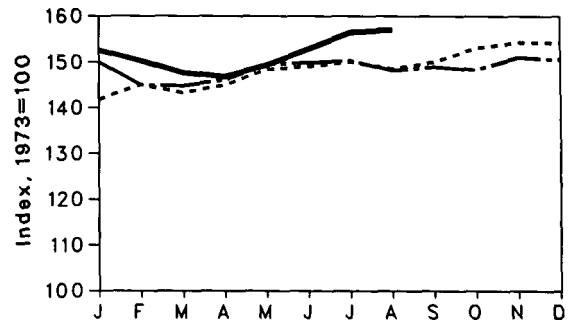
International

Petroleum Stocks for OECD Countries at End of Period

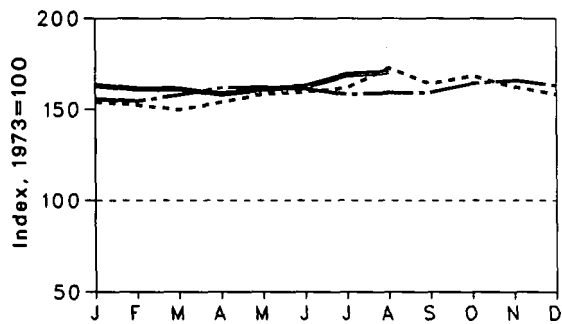
Total OECD



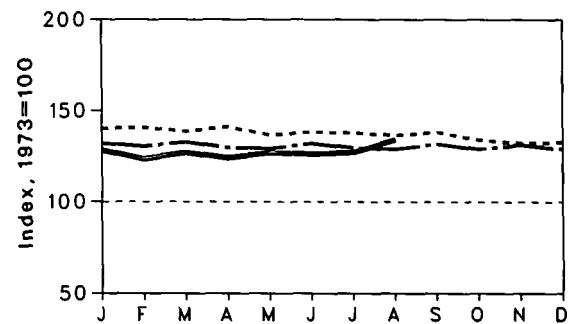
United States



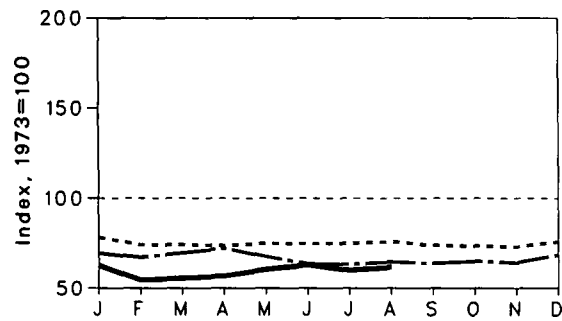
Japan



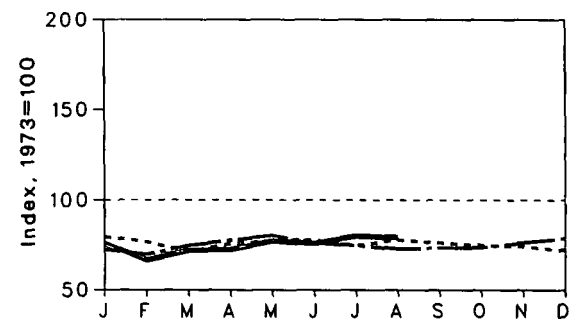
West Germany



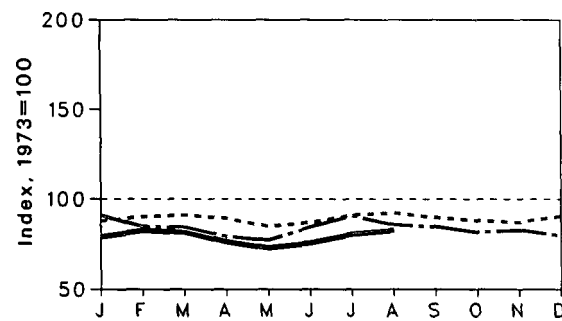
France



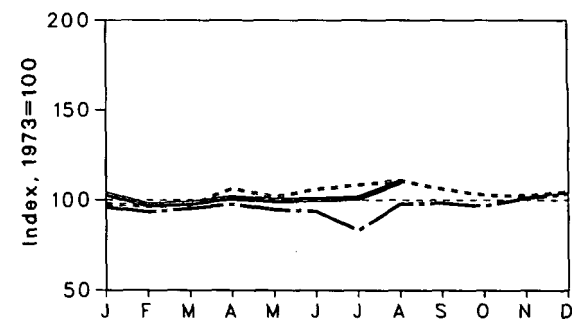
United Kingdom



Canada



Italy



International

Petroleum Stocks¹ for OECD Countries² at End of Period

| | | Canada | France | Italy | Japan | United Kingdom | United States | West Germany | Total OECD Europe ³ | Other OECD ⁴ | Total OECD ⁵ |
|-----------------|-----------|--------|--------|-------|-------|----------------|---------------|--------------|--------------------------------|-------------------------|-------------------------|
| Million barrels | | | | | | | | | | | |
| 1973 | Year | 140 | 201 | 152 | 303 | 156 | 1,008 | 181 | 1,070 | 67 | 2,588 |
| 1974 | Year | 145 | 249 | 167 | 370 | 161 | 1,074 | 213 | 1,227 | 64 | 2,880 |
| 1975 | Year | 174 | 225 | 143 | 375 | 165 | 1,133 | 187 | 1,154 | 67 | 2,903 |
| 1976 | Year | 153 | 234 | 143 | 380 | 165 | 1,112 | 208 | 1,205 | 68 | 2,918 |
| 1977 | Year | 167 | 239 | 161 | 409 | 148 | 1,312 | 225 | 1,268 | 66 | 3,224 |
| 1978 | Year | 144 | 201 | 154 | 413 | 157 | 1,278 | 238 | 1,219 | 68 | 3,122 |
| 1979 | Year | 150 | 226 | 163 | 460 | 169 | 1,341 | 272 | 1,353 | 75 | 3,379 |
| 1980 | Year | 164 | 243 | 170 | 495 | 168 | 1,392 | 319 | 1,464 | 72 | 3,587 |
| 1981 | Year | 161 | 214 | 167 | 482 | 143 | 1,484 | 297 | 1,337 | 87 | 3,531 |
| 1982 | Year | 136 | 193 | 179 | 484 | 125 | 1,430 | 272 | 1,258 | 68 | 3,376 |
| 1983 | Year | 120 | 153 | 149 | 471 | 119 | 1,454 | 250 | 1,145 | 68 | 3,258 |
| 1984 | January | 123 | 158 | 149 | 467 | 124 | 1,429 | 254 | 1,150 | 68 | 3,237 |
| | February | 127 | 149 | 147 | 462 | 120 | 1,463 | 255 | 1,119 | 69 | 3,240 |
| | March | 128 | 149 | 148 | 454 | 112 | 1,444 | 251 | 1,092 | 68 | 3,185 |
| | April | 125 | 148 | 161 | 467 | 118 | 1,462 | 256 | 1,130 | 67 | 3,251 |
| | May | 119 | 151 | 155 | 480 | 121 | 1,496 | 247 | 1,129 | 65 | 3,289 |
| | June | 122 | 151 | 161 | 484 | 122 | 1,503 | 250 | 1,149 | 66 | 3,324 |
| | July | 128 | 151 | 164 | 491 | 117 | 1,513 | 249 | 1,161 | 69 | 3,362 |
| | August | 130 | 153 | 168 | 524 | 122 | 1,498 | 247 | 1,163 | 68 | 3,383 |
| | September | 126 | 149 | 161 | 498 | 119 | 1,513 | 250 | 1,150 | 68 | 3,355 |
| | October | 124 | 148 | 156 | 511 | 117 | 1,544 | 242 | 1,137 | 67 | 3,382 |
| | November | 122 | 147 | 155 | 492 | 116 | 1,556 | 239 | 1,126 | 65 | 3,362 |
| | December | 127 | 153 | 159 | 480 | 113 | 1,556 | 240 | 1,132 | 69 | 3,364 |
| 1985 | January | 128 | 140 | 146 | 472 | 114 | 1,512 | 239 | 1,071 | 70 | 3,253 |
| | February | 119 | 135 | 142 | 468 | 109 | 1,462 | 236 | 1,032 | 71 | 3,153 |
| | March | 118 | 140 | 145 | 479 | 117 | 1,460 | 240 | 1,051 | 65 | 3,173 |
| | April | 111 | 146 | 148 | 491 | 121 | 1,473 | 235 | 1,053 | 67 | 3,194 |
| | May | 108 | 136 | 144 | 492 | 125 | 1,508 | 234 | 1,063 | 65 | 3,237 |
| | June | 119 | 128 | 142 | 489 | 119 | 1,511 | 239 | 1,048 | 64 | 3,231 |
| | July | 127 | 128 | 126 | 480 | 117 | 1,516 | 234 | 1,022 | 62 | 3,207 |
| | August | 120 | 130 | 149 | 482 | 114 | 1,494 | 233 | 1,042 | 62 | 3,200 |
| | September | 119 | 129 | 149 | 483 | 115 | 1,502 | 238 | 1,052 | 62 | 3,218 |
| | October | 114 | 131 | 147 | 498 | 115 | 1,496 | 233 | 1,056 | 65 | 3,230 |
| | November | 116 | R130 | 154 | 503 | 119 | 1,523 | 237 | R1,072 | 65 | R3,279 |
| | December | 112 | 138 | 157 | 495 | 123 | 1,519 | 233 | 1,093 | 67 | 3,285 |
| 1986 | January | 111 | 127 | 157 | 495 | 118 | 1,538 | 232 | 1,070 | 66 | 3,280 |
| | February | 116 | 110 | 148 | 489 | 104 | 1,515 | 223 | 1,002 | 67 | 3,189 |
| | March | 114 | 112 | 149 | 489 | 113 | 1,489 | 229 | 1,023 | 70 | 3,184 |
| | April | 107 | 114 | 154 | 480 | 113 | 1,480 | 224 | 1,016 | R65 | R3,149 |
| | May | 102 | 122 | 151 | 488 | 121 | 1,506 | 230 | 1,054 | R60 | R3,211 |
| | June | 106 | 127 | 152 | 493 | 119 | 1,541 | 228 | 1,068 | 68 | 3,275 |
| | July | R112 | R121 | 154 | R513 | 125 | 1,578 | 230 | R1,074 | R68 | R3,345 |
| | August | 116 | 125 | 167 | 518 | 124 | 1,584 | 242 | 1,124 | 68 | 3,409 |

¹Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined 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.

²Organization for Economic Cooperation and Development (OECD) includes Canada, Japan, and the United States, as well as "Total OECD Europe" and "Other OECD."

³"Total OECD Europe" includes France, Italy, the United Kingdom, and West Germany, as well as Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

⁴"Other OECD" includes Australia, New Zealand, and the U.S. Territories.

R=Revised data.

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: • U.S. data: EIA, *Petroleum Supply Monthly*. • OECD data: OECD, *Quarterly Oil Statistics, Monthly Oil Statistics*.

International

Nuclear Electricity Generation by Non-Communist Countries¹

| | | Argen- tina | Belgium | Brazil | Canada | Finland | France | India | Italy | Japan | Nether- lands | Paki- stan |
|-----------------------------|---------------------|----------------|-------------|------------|-------------|-------------|--------------|------------|------------|--------------|------------------|---------------|
| Billion gross kilowatthours | | | | | | | | | | | | |
| 1973 | Total | 0 | 0 | 0 | 15.3 | 0 | 14.7 | 2.5 | 3.1 | 9.4 | 1.1 | 0.5 |
| 1974 | Total | 1.0 | 0.1 | 0 | 15.4 | 0 | 14.7 | 1.9 | 3.4 | 18.9 | 3.3 | 0.6 |
| 1975 | Total | 2.5 | 6.8 | 0 | 13.2 | 0 | 18.3 | 2.5 | 3.8 | 21.3 | 3.3 | 0.5 |
| 1976 | Total | 2.6 | 10.0 | 0 | 18.0 | 0 | 15.8 | 3.2 | 3.8 | 36.6 | 3.9 | 0.5 |
| 1977 | Total | 1.6 | 11.9 | 0 | 26.6 | 2.7 | 17.9 | 2.8 | 3.4 | 28.2 | 3.7 | 0.3 |
| 1978 | Total | 2.9 | 12.5 | 0 | 33.0 | 3.3 | 30.6 | 2.3 | 4.5 | 53.1 | 4.1 | 0.2 |
| 1979 | Total | 2.7 | 11.4 | 0 | 38.4 | 6.7 | 39.9 | 3.2 | 2.6 | 62.0 | 3.5 | (s) |
| 1980 | Total | 2.3 | 12.5 | 0 | 40.4 | 7.0 | 61.2 | 2.9 | 2.2 | 82.8 | 4.2 | 0.1 |
| 1981 | Total | 2.8 | 12.8 | 0 | 43.3 | 14.5 | 105.2 | 3.1 | 2.7 | 86.0 | 3.7 | 0.2 |
| 1982 | Total | 1.9 | 15.6 | 0.1 | 42.6 | 16.5 | 108.9 | 2.2 | 6.8 | 104.5 | 3.9 | 0.1 |
| 1983 | 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 | 0 |
| | 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 | 15.4 | 0.3 | 0.3 | R8.8 | 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 | 3.7 | 1.3 | 13.1 | 0.4 | 0.3 | 9.9 | 0.4 | (s) |
| | July | 0.4 | 2.4 | 0 | 4.4 | 1.4 | 13.1 | 0.5 | 0.3 | 10.6 | 0.2 | (s) |
| | August | 0.3 | 1.9 | (s) | 4.7 | 1.4 | 13.2 | 0.4 | 0.8 | 11.0 | 0.3 | (s) |
| | September | 0.4 | 1.9 | 0.3 | 3.9 | 1.5 | 14.7 | 0.2 | 0.8 | 11.4 | 0.4 | (s) |
| | October | 0.1 | 2.5 | 0.5 | 4.5 | 1.8 | 16.0 | 0.4 | 0.8 | 11.6 | 0.4 | (s) |
| | November | (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 | 13.2 | 0.4 | (s) |
| | Total | 4.5 | 27.7 | 2.1 | 53.8 | 18.5 | 191.2 | 4.1 | 6.9 | 127.2 | 3.8 | 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 | 0 |
| | April | 0.4 | 2.2 | 0.1 | 5.2 | 1.6 | 17.7 | 0.6 | 0.7 | 11.8 | (s) | 0 |
| | May | 0.4 | 2.8 | 0.2 | 2.4 | 1.2 | 15.9 | 0.5 | 0.7 | R13.0 | 0.2 | 0 |
| | June | 0.4 | 2.8 | 0.4 | 4.2 | 1.2 | 13.6 | 0.4 | 0.6 | 12.6 | 0.4 | (s) |
| | July | 0.5 | 2.5 | 0.3 | 5.7 | 1.4 | 16.1 | 0.4 | 0.6 | 12.5 | 0.4 | 0.1 |
| | August | 0.5 | 3.2 | 0.1 | 6.0 | 1.5 | 15.4 | 0.2 | 0.5 | 12.9 | 0.4 | (s) |
| | September | 0.5 | 3.3 | 0.3 | 5.4 | 1.6 | 17.2 | 0.3 | 0.3 | 12.8 | 0.4 | 0 |
| | October | 0.6 | 3.9 | 0.4 | 5.1 | 1.7 | 20.0 | 0.4 | 0.3 | 13.9 | 0.4 | (s) |
| | November | 0.7 | 3.9 | 0.3 | 5.8 | 1.7 | 22.1 | 0.4 | 0.3 | 13.1 | 0.4 | 0.1 |
| | December | 0.7 | R3.8 | 0.3 | 6.5 | 1.7 | 24.4 | 0.4 | 0.6 | 14.7 | 0.4 | 0.1 |
| | Total | 5.8 | 34.5 | 3.4 | 62.9 | 18.8 | 224.0 | 4.5 | 7.0 | 152.0 | 3.9 | 0.3 |
| 1986 | January | 0.6 | 3.8 | (s) | 6.5 | 1.8 | 25.6 | 0.5 | 0.9 | 15.0 | 0.4 | (s) |
| | February | 0.6 | 2.8 | 0 | 6.2 | 1.6 | 22.8 | 0.4 | 0.5 | 13.5 | 0.1 | (s) |
| | March | 0.5 | 3.6 | 0 | 7.0 | 1.8 | 23.6 | 0.5 | 0.9 | 14.5 | 0.3 | (s) |
| | April | 0.5 | 3.7 | 0 | 6.0 | 1.7 | 21.0 | 0.3 | 0.9 | 12.4 | 0.4 | (s) |
| | May | 0.7 | 3.2 | 0 | 5.7 | 1.4 | 15.2 | 0.4 | 0.7 | 12.8 | 0.4 | (s) |
| | June | 0.4 | 2.9 | 0 | 5.4 | 1.1 | 16.7 | 0.4 | 0.9 | 15.0 | 0.4 | (s) |
| | July | 0.4 | 3.0 | 0 | 5.3 | 1.3 | 18.8 | 0.5 | 0.9 | 15.2 | 0.4 | (s) |
| | August | 0 | 3.1 | 0 | 6.6 | 1.4 | 16.4 | 0.5 | 0.9 | 14.8 | 0.4 | 0.1 |
| | September | 0 | 3.1 | 0 | 6.2 | 1.5 | 17.9 | 0.4 | 0.9 | 13.4 | (s) | 0.1 |
| | Year to Date | 3.7 | 29.1 | (s) | 54.9 | 13.5 | 178.1 | 3.9 | 7.5 | 126.6 | 2.7 | 0.4 |

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.

²The 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.

International

Nuclear Electricity Generation by Non-Communist Countries¹ (continued)

| | | South Africa | South Korea | Spain | Sweden | Switzer- land | Taiwan | United Kingdom ² | West Germany | Non- Communist World Excluding U.S. | United States | Total Non- Communist World |
|-----------------------------|---------------------|-----------------|----------------|-------------|-------------|------------------|-------------|--------------------------------|-----------------|---|------------------|----------------------------------|
| Billion gross kilowatthours | | | | | | | | | | | | |
| 1973 | Total | 0 | 0 | 6.5 | 2.1 | 6.2 | 0 | 28.2 | 11.9 | 101.4 | 87.8 | 189.3 |
| 1974 | Total | 0 | 0 | 7.2 | 2.3 | 7.0 | 0 | 33.8 | 12.0 | 121.7 | 124.3 | 246.0 |
| 1975 | Total | 0 | 0 | 7.5 | 12.0 | 7.7 | 0 | 30.5 | 21.7 | 151.8 | 182.3 | 334.1 |
| 1976 | Total | 0 | 0 | 7.6 | 16.0 | 7.9 | 0 | 36.8 | 24.5 | 187.1 | 201.8 | 388.9 |
| 1977 | Total | 0 | 0.1 | 6.5 | 19.9 | 8.1 | 0.1 | 38.1 | 36.0 | 207.8 | 264.2 | 472.0 |
| 1978 | Total | 0 | 2.3 | 7.6 | 23.8 | 8.3 | 2.7 | 36.6 | 35.7 | 263.5 | 292.4 | 555.9 |
| 1979 | Total | 0 | 3.2 | 6.7 | 21.0 | 11.8 | 6.3 | 38.5 | 42.2 | 300.1 | 270.6 | 570.7 |
| 1980 | Total | 0 | 3.5 | 5.2 | 26.7 | 14.3 | 8.2 | 37.2 | 43.7 | 354.3 | 265.4 | 619.8 |
| 1981 | Total | 0 | 2.9 | 9.4 | 37.7 | 15.2 | 10.7 | 38.9 | 53.4 | 442.4 | 288.5 | 730.9 |
| 1982 | Total | 0 | 3.8 | 8.8 | 38.8 | 15.0 | 13.1 | 44.1 | 63.4 | 489.9 | 298.6 | 788.5 |
| 1983 | Total | 0 | 9.0 | 10.7 | 40.4 | 15.5 | 18.9 | 49.6 | 65.8 | 573.9 | 313.6 | 887.5 |
| 1984 | January | 0 | 1.3 | 1.5 | 5.3 | 1.5 | 1.7 | 4.4 | 6.9 | 61.8 | 30.8 | 92.6 |
| | February | 0 | 1.2 | 1.5 | 5.0 | 1.4 | 1.8 | 4.6 | 6.8 | 59.1 | 29.4 | 88.5 |
| | March | 0 | 1.0 | 1.4 | 5.4 | 1.5 | 2.0 | 4.8 | 7.1 | 60.6 | 28.6 | 89.2 |
| | April | 0.1 | 0.9 | 1.3 | 4.5 | 1.5 | 1.8 | 4.2 | 7.7 | 55.8 | 24.7 | 80.5 |
| | May | 0.1 | 0.8 | 1.9 | 3.3 | 1.3 | 1.4 | 4.3 | 7.2 | 53.6 | 27.3 | 80.9 |
| | June | 0.3 | 0.7 | 2.2 | 2.8 | 0.6 | 1.8 | 4.7 | 7.1 | 52.3 | 26.4 | 78.8 |
| | July | 0.5 | 0.7 | 2.5 | 2.4 | 1.3 | 2.7 | 3.7 | 6.2 | 53.2 | 29.4 | 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 | 8.1 | 60.8 | 30.3 | 91.1 |
| | October | 0.7 | 1.3 | 1.8 | 5.0 | 1.5 | 2.0 | 4.1 | 8.5 | 63.5 | 26.8 | 90.3 |
| | November | 0.5 | 1.3 | 1.9 | 4.5 | 1.5 | 1.8 | 4.4 | 9.9 | 66.3 | 26.2 | 92.4 |
| | December | 0.6 | 0.9 | 2.2 | 5.4 | 1.9 | 2.3 | 6.3 | 10.8 | 75.9 | 32.0 | 107.9 |
| | Total | 4.2 | 11.8 | 23.1 | 51.3 | 16.3 | 24.3 | 54.1 | 92.6 | 717.7 | 343.8 | 1,061.5 |
| 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 | 0 | 1.5 | 2.8 | 5.6 | 2.2 | 2.5 | 6.6 | 11.7 | 77.4 | 32.5 | 109.9 |
| | April | 0 | 1.3 | 2.4 | 4.5 | 2.2 | 2.7 | 5.1 | 10.6 | 69.0 | 28.3 | 97.3 |
| | May | 0 | 1.5 | 2.3 | 3.9 | 1.9 | 2.8 | 4.7 | 9.3 | 63.8 | 31.8 | 95.6 |
| | June | 0.1 | 1.2 | 3.1 | 2.6 | 1.2 | 2.6 | 5.1 | 9.6 | 62.0 | 31.0 | 93.0 |
| | July | 0.8 | 1.1 | 2.2 | 3.1 | 1.3 | 2.2 | 4.1 | 8.4 | 63.7 | 36.4 | 100.2 |
| | August | 0.8 | 1.2 | 2.1 | 4.3 | 1.0 | 2.2 | 3.8 | 9.5 | 65.5 | 36.8 | 102.3 |
| | September | 1.0 | 1.3 | 2.1 | 4.7 | 1.7 | 2.6 | 4.9 | 10.3 | 70.7 | 35.9 | 106.6 |
| | October | 1.1 | 1.4 | R2.2 | 5.4 | 2.2 | 2.6 | 4.3 | 11.3 | 77.2 | 32.1 | 109.3 |
| | November | 0.8 | 1.7 | R2.2 | 7.0 | 2.2 | 1.7 | 3.7 | 11.7 | 79.6 | 31.7 | 111.3 |
| | December | 0.9 | 1.9 | 2.6 | 6.9 | 2.2 | 2.5 | 6.0 | 12.3 | 89.0 | 35.7 | 124.6 |
| | Total | 5.7 | R16.4 | 28.0 | 58.6 | 22.4 | 28.7 | 59.6 | 125.7 | 862.2 | 402.6 | 1,264.8 |
| 1986 | January | 1.0 | 2.0 | 3.1 | 6.8 | 2.3 | 2.9 | 4.8 | 12.0 | 90.0 | 38.1 | 128.1 |
| | February | 0.6 | 1.7 | 2.5 | 6.4 | 2.1 | 2.1 | 5.3 | 10.4 | 79.7 | 34.1 | 113.8 |
| | March | 0.7 | 1.5 | 2.4 | 7.2 | 2.3 | 2.2 | 6.4 | 10.7 | 86.0 | 31.2 | 117.2 |
| | April | 0.7 | 1.6 | 3.0 | 6.7 | 2.2 | 2.0 | 4.2 | 9.6 | 76.8 | 32.2 | 109.0 |
| | May | 0.7 | 2.4 | 3.6 | 4.8 | 2.1 | 2.0 | 4.4 | 9.5 | 70.1 | R33.7 | 103.8 |
| | June | 0.2 | 2.2 | 3.9 | 4.1 | 1.2 | 1.6 | 5.1 | 9.0 | 70.4 | R33.2 | R103.6 |
| | July | 0.6 | 2.0 | 3.1 | 3.8 | 0.9 | 1.8 | 4.1 | 7.9 | 70.0 | R38.0 | R108.1 |
| | August | 0.7 | 2.4 | 2.9 | 4.3 | 1.0 | 1.9 | 4.2 | 8.0 | 69.5 | R39.4 | R109.0 |
| | September | 0.9 | 2.1 | 2.7 | 5.1 | 1.9 | 2.0 | 4.9 | 9.0 | 72.0 | 38.2 | 110.2 |
| | Year to Date | 6.0 | 17.9 | 27.4 | 49.2 | 15.9 | 18.6 | 43.2 | 86.0 | 684.6 | 318.1 | 1,002.7 |

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 that are not included in the monthly data. Also, the sum of the months may not equal the annual total due to independent rounding.

Sources: • *Nucleonics Week* (New York: McGraw-Hill Publishing Company).

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..... | 6.636 |
| Aviation gasoline..... | 5.048 |
| Butane..... | 4.326 |
| Butane-propane mixture ¹ | 4.130 |
| Distillate fuel oil..... | 5.825 |
| Ethane..... | 3.082 |
| 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..... | 4.620 |
| 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..... | 6.024 |
| Plant condensate..... | 5.418 |
| Propane..... | 3.836 |
| Residual fuel oil..... | 6.287 |
| Road oil..... | 6.636 |
| Special naphtha..... | 5.248 |
| Still gas..... | 6.000 |
| Unfinished oils..... | 5.825 |
| Unfractionated stream..... | 5.418 |
| Wax..... | 5.537 |
| Miscellaneous..... | 5.796 |

¹ 60 percent butane and 40 percent propane.

² 70 percent ethane and 30 percent propane.

Conversion Factors (continued)

Approximate Heat Content of Fuels, 1973-1979

| | Units | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|-----------------------|--------|--------|--------|--------|--------|--------|--------|
| Coal | | | | | | | | |
| 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 | 24.701 | 24.496 | 24.626 |
| Electric utilities | Million Btu/short ton | 22.246 | 21.781 | 21.642 | 21.679 | 21.508 | 21.275 | 21.364 |
| Imports..... | Million Btu/short ton | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 | 25.000 |
| Exports | Million Btu/short ton | 26.596 | 26.700 | 26.562 | 26.601 | 26.548 | 26.478 | 26.548 |
| 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 |
| Crude oil¹ | | | | | | | | |
| 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 products² | | | | | | | | |
| 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 | Million Btu/barrel | 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..... | Btu/cubic foot | 1,093 | 1,097 | 1,095 | 1,093 | 1,093 | 1,088 | 1,092 |
| Consumption | Btu/cubic foot | 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 Electricity

| | | | | | | | | |
|--|------------------|--------|--------|--------|--------|--------|--------|--------|
| Fossil fuel steam-electric power plant generation ³ ... | Btu/kilowatthour | 10,389 | 10,442 | 10,406 | 10,373 | 10,435 | 10,361 | 10,353 |
| Nuclear power plant generation | Btu/kilowatthour | 10,903 | 11,161 | 11,013 | 11,047 | 10,769 | 10,941 | 10,879 |
| Geothermal energy power plant generation..... | Btu/kilowatthour | 21,674 | 21,674 | 21,611 | 21,611 | 21,611 | 21,611 | 21,545 |
| Electricity consumption..... | Btu/kilowatthour | 3,412 | 3,412 | 3,412 | 3,412 | 3,412 | 3,412 | 3,412 |

¹ Includes lease condensate.

² Weighted averages of the products included in each category are calculated using heat content values shown on the first page of this section.

³ 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.

Conversion Factors (continued)

Approximate Heat Content of Fuels, 1980-1985

| | Units | 1980 | 1981 | 1982 | 1983 | 1984 | 1985-86† |
|---|-----------------------|--------|--------|--------|--------|--------|----------|
| Coal | | | | | | | |
| Production | Million Btu/short ton | 22.415 | 22.309 | 22.240 | 22.056 | 22.014 | 21.874 |
| Consumption | Million Btu/short ton | 21.947 | 21.714 | 21.675 | 21.581 | 21.577 | 21.370 |
| Non-electric utility users..... | Million Btu/short ton | 24.731 | 24.477 | 24.194 | 24.093 | 24.069 | 23.664 |
| Electric utilities | Million Btu/short ton | 21.295 | 21.085 | 21.184 | 21.133 | 21.101 | 20.959 |
| 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 | 26.307 |
| Anthracite | | | | | | | |
| Production | Million Btu/short ton | 22.869 | 23.291 | 23.289 | 22.734 | 23.107 | 22.428 |
| Consumption | Million Btu/short ton | 21.405 | 22.080 | 22.485 | 21.583 | 22.322 | 20.817 |
| Non-electric utility users..... | Million Btu/short ton | 22.719 | 23.749 | 24.530 | 24.536 | 25.128 | 23.031 |
| Electric utilities | Million Btu/short ton | 17.652 | 18.168 | 18.160 | 16.516 | 17.018 | 16.784 |
| 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 | 21.871 |
| Consumption | Million Btu/short ton | 21.950 | 21.712 | 21.671 | 21.581 | 21.574 | 21.372 |
| Residential and commercial | Million Btu/short ton | 22.488 | 22.191 | 22.373 | 22.934 | 22.880 | 23.072 |
| Coke plants | Million Btu/short ton | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 |
| Other industrial & transportation..... | Million Btu/short ton | 22.690 | 22.572 | 22.694 | 22.679 | 22.524 | 22.012 |
| Electric utilities | Million Btu/short ton | 21.301 | 21.091 | 21.200 | 21.141 | 21.108 | 20.965 |
| 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 | 26.320 |
| Coal coke, imports and exports..... | Million Btu/short ton | 24.800 | 24.800 | 24.800 | 24.800 | 24.800 | 24.800 |
| Crude oil¹ | | | | | | | |
| 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 | 5.832 |
| 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 | 5.736 |
| Exports | Million Btu/barrel | 5.820 | 5.821 | 5.820 | 5.800 | 5.850 | 5.814 |
| Petroleum products² | | | | | | | |
| Consumption | Million Btu/barrel | 5.479 | 5.448 | 5.415 | 5.406 | 5.395 | 5.387 |
| Residential and commercial | Million Btu/barrel | 5.468 | 5.409 | 5.392 | 5.286 | 5.261 | 5.252 |
| Industrial | Million Btu/barrel | 5.376 | 5.310 | 5.262 | 5.273 | 5.256 | 5.250 |
| Transportation..... | Million Btu/barrel | 5.440 | 5.434 | 5.423 | 5.416 | 5.423 | 5.419 |
| Electric utilities | Million Btu/barrel | 6.254 | 6.258 | 6.258 | 6.255 | 6.251 | 6.247 |
| Imports..... | Million Btu/barrel | 5.748 | 5.659 | 5.664 | 5.677 | 5.613 | 5.572 |
| Exports | Million Btu/barrel | 5.841 | 5.837 | 5.829 | 5.800 | 5.867 | 5.819 |
| LPG consumption..... | Million Btu/barrel | 3.674 | 3.643 | 3.615 | 3.614 | 3.599 | 3.603 |
| Natural gas plant liquids | | | | | | | |
| Production | Million Btu/barrel | 3.914 | 3.930 | 3.872 | 3.839 | 3.812 | 3.805 |
| Natural gas | | | | | | | |
| Production, dry..... | Btu/cubic foot | 1,026 | 1,027 | 1,028 | 1,031 | 1,031 | 1,033 |
| Production, wet..... | Btu/cubic foot | 1,098 | 1,103 | 1,107 | 1,115 | 1,109 | 1,113 |
| Consumption | Btu/cubic foot | 1,026 | 1,027 | 1,028 | 1,031 | 1,031 | 1,033 |
| Non-electric utility users..... | Btu/cubic foot | 1,024 | 1,025 | 1,026 | 1,031 | 1,030 | 1,032 |
| Electric utilities | Btu/cubic foot | 1,035 | 1,035 | 1,036 | 1,030 | 1,035 | 1,038 |
| Imports..... | Btu/cubic foot | 1,022 | 1,014 | 1,018 | 1,024 | 1,005 | 1,002 |
| Exports | Btu/cubic foot | 1,013 | 1,011 | 1,011 | 1,010 | 1,010 | 1,011 |

Approximate Heat Rates for Electricity

| | | | | | | | |
|--|------------------|--------|--------|--------|--------|--------|--------|
| Fossil fuel steam-electric power plant generation ³ ... | Btu/kilowatthour | 10,388 | 10,453 | 10,423 | 10,445 | 10,211 | 10,211 |
| Nuclear power plant generation | Btu/kilowatthour | 10,908 | 11,030 | 11,073 | 10,905 | 10,843 | 10,843 |
| 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 |

¹ Includes lease condensate.

² Weighted averages of the products included in each category are calculated using heat content values shown on the first page of this section.

³ 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.

†=Preliminary data.

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

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*.

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.

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."

Thermal Conversion Factor Source Documentation (continued)

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

Thermal Conversion Factor Source Documentation (continued)

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. • 1973-1984: 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*. • 1985 forward: Estimated by EIA.

Petroleum Products, Consumption by Industrial Users. • 1973-1984: 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*. • 1985 forward: Estimated by EIA.

Petroleum Products, Consumption by Residential and Commercial Users. • 1973-1984: 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*. • 1985 forward: Estimated by EIA.

Petroleum Products, Consumption by Transportation Users. • 1973-1984: 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*. • 1985 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 non-electric 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.

Thermal Conversion Factor Source Documentation (continued)

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 non-electric 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 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 other industrial users from each coal-producing 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

Thermal Conversion Factor Source Documentation (continued)

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 annually 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 annually 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 kilowatt-hour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatt-hour. • 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 meta-anthracite 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 (C₄H₁₀) 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 (C₄H₈) 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 pipelines, 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

Glossary (continued)

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 climatologically homogeneous divisions which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day 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 (C₂H₆) 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 (C₂H₄) 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 Oil. 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

Glossary (continued)

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.

Liquefied Petroleum Gases. Ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane 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 Premium. 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 Premium. 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 Liquids. 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

Glossary (continued)

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 pumped-storage 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 petroleum 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 (C₃H₈). 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 (C₃H₆) 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.

Glossary (continued)

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.

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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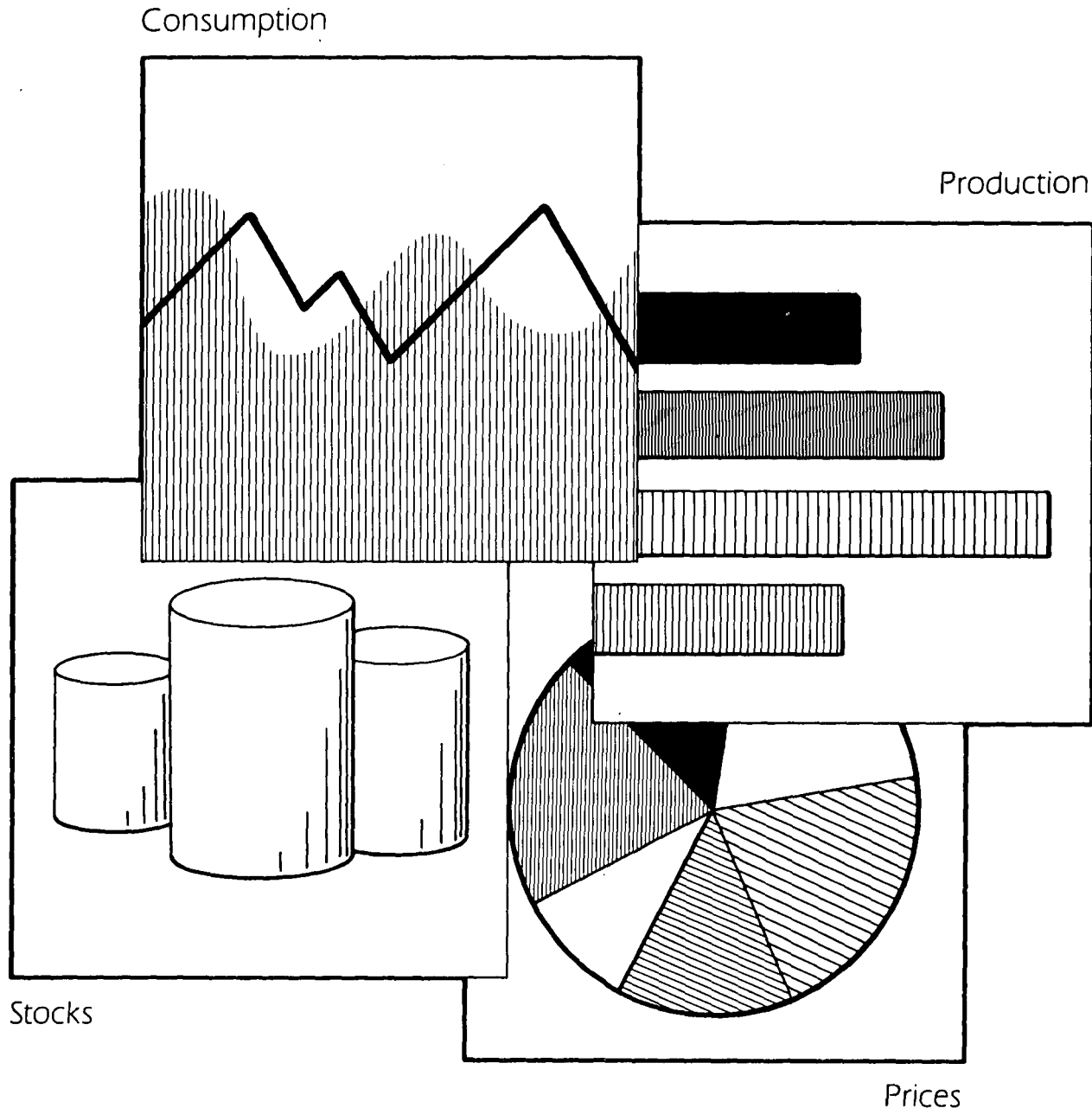
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