DOE/EIA-0035(83/08)

Monthly Energy Review

August 1983

Energy Information Administration Washington, D.C.







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"

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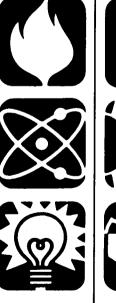
Monthly Energy Review

Energy Information Administration
Office of Energy Markets
and End Use
U.S. Department of Energy

U.S. Department of Energy Washington, D.C. 20585

August 1983

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Articles

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HIGHLIGHTS:

Railroad Deregulation: Impact on Coal

The U.S. economy is significantly affected by the close interaction of the coal and railroad industries. Coal shippers depend heavily on rail transportation since about two-thirds of U.S. coal production is transported by rail. Recent legislation1 and Interstate Commerce Commission (ICC) actions have effectively deregulated rail rates for hauling coal, and rail costs for coal freight are expected to rise. Specifically, a February 1983 ICC proposal on nationwide coal rate guidelines would allow railroads to increase their rates by 15 percent per year, in real terms,2 until they reach revenue adequacy.3 In March 1983, the ICC exempted export coal from any rate regulation. The Energy Information Administration (EIA) recently published a report analyzing the effect of higher rail rates on U.S. coal exports, world coal trade, and domestic coal production, consumption, and transportation.

Railroad Deregulation: Impact on Coal analyzes the effect of increased rail rates on U.S. coal exports and on the domestic coal market in 1985, 1990, and 1995. All other factors that may influence the use of coal, such as economic growth and world oil prices, are assumed to remain constant in all scenarios. Projections are provided for a base case, a revenue adequacy case, and selected rail rate increase cases that bracket the revenue adequacy case. The base case assumes that rail rates, in real terms, remain constant. The revenue adequacy case is based on preliminary ICC estimates which indicate that national average

World net coal trade amounted to 253 million short tons in 1980. In the base case, world coal trade is projected to expand from 329 million tons in 1985 to 601 million tons in 1995, an increase of 83 percent⁴ (Table 1). The growth is projected to occur primarily in the steam coal market, in response to rising coal demand by electric utilities and industrial users in Europe and the Orient. The United States, Australia, South Africa, and Poland are expected to remain the major suppliers of steam coal. Metallurgical coal trade is expected to show little growth; the United States is projected to remain the largest supplier during the 1985–1995 period.

In the revenue adequacy case, U.S. coal export levels are expected to decline by 15 million tons from the base level of 109 million tons in 1985, 27 million tons from 144 million tons in 1990, and 37 million tons from 174 million tons in 1995. In 1985, the shortfall in demand for U.S. exports is offset by increased supplies of coal from other exporting countries. By 1990 and 1995, however, the marginal delivered prices of coal, which include the rail rate increases, are projected to be high enough to cause world demand to fall off from the projected base levels. Of the 37-million-ton drop in U.S. coal exports projected in 1995 in the revenue adequacy case compared to the base case, other coal exporters are expected to supply only 21 million tons (56 percent).

Table 1. Projected Coal Exports (Million Short Tons)

| | Base Case | | | Revenue Adequacy Case | | |
|-------------------|-----------|------|------|-----------------------|------|------|
| Exports | 1985 | 1990 | 1995 | 1985 | 1990 | 1995 |
| U.S. Exports | 109 | 144 | 174 | 94 | 116 | 137 |
| Non-U.S. Exports' | 220 | 324 | 427 | 232 | 343 | 448 |
| Total Trade | 329 | 468 | 601 | 327 | 459 | 585 |

¹ Non-U.S. exports are from Australia, Canada, China, Colombia, India, the United Kingdom, Poland, the U.S.S.R., and South Africa. Source: EIA International Coal Trade Model projections.

rail rate increases, in real terms, of 29 percent by 1985, 71 percent by 1990, and 90 percent by 1995, above the current rates, would ensure revenue adequacy.

¹ The Railroad Revitalization and Regulatory Reform Actof 1976 and the Staggers Rail Act of 1980.

² Adjusted for inflation.

³ Revenue adequacy refers to the ability of a railroad to earn enough profit to attract new capital and to remain a viable entity.

⁴ Calculations are based on unrounded values.

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

Coal exports shown are bituminous coal exports only.

The projected rail rate increases slow the rate of growth indicated for U.S. coal exports in the base case, as well as slowing the growth of world coal trade. U.S. cost increases allow other coal exporters, such as South Africa, to expand supplies so as to capture potentially higher profits, which result from increased market prices. In addition, the United States faces overall export revenue losses as a result of higher prices. Even though railroads would haul smaller tonnages, their revenues would rise; however, the coal industry would register larger revenue losses, with the result that total U.S. coal export revenues would decline.

Domestic coal production is projected in the base case to expand from 902 million tons in 1985 to 1,302 million tons in 1995, an increase of 44 percent (Table 2). In the revenue adequacy case, coal production declines from the projected base case level by 21 million tons in 1985, 54 million tons in 1990, and 70 million tons in 1995. Eastern coal production increases 3 million tons in 1985 and 11 million tons in 1990, but declines 4 million tons in 1995. Western coal production declines substantially in all years, reflecting the longer distances over which western coal must be hauled.

Domestic coal consumption is projected in the base case to expand from 794 million tons in 1985 to 1,130 million tons in 1995, an increase of 42 percent (Table 3). These projections indicate that the electric utility sector's share of total domestic

coal consumption will continue to be significant and will account for over 80 percent of the rise in total domestic coal consumption.

Higher rail transportation rates for coal could have a substantial impact on coal use by domestic electric utilities. In response to rail cost increases, utilities may seek alternate coal suppliers, alternate modes of transportation (such as barge, truck, or pipeline), or alternate fuels.

The revenue adequacy case projects a slower rate of growth for coal consumption in the utility sector. Use of coal by utilities decreases by 5 million tons in 1985, 20 million tons in 1990, and 27 million tons in 1995, from projected base levels.

Railroad Deregulation: Impact on Coal, DOE/EIA-0399, was published by EIA in August 1983. The report includes analyses of world and domestic coal markets under selected rail rate increases in addition to the revenue adequacy case. It also analyzes the effect on world coal markets of various international scenarios, such as an "Australia/South Africa cartel" scenario in which those exporters seek to limit their coal supplies, thereby allowing the United States to gain a larger share of the market. The report is available from the Superintendent of Documents, Government Printing Office (stock number 061-003-00327-3) for \$4.25 per copy.

Table 2. Projected U.S. Coal Production (Million Short Tons)

| | Base Case | | | Rev | Revenue Adequacy Case | | |
|------------------------------------|-----------|-------|-------|------|-----------------------|-------|--|
| Region | 1985 | 1990 | 1995 | 1985 | 1990 | 1995 | |
| Eastern United States' | 574 | 645 | 810 | 577 | 656 | 806 | |
| Western United States ² | 329 | 425 | 492 | 305 | 361 | 426 | |
| Total United States | 902 | 1,070 | 1,302 | 882 | 1,016 | 1,232 | |

¹ States east of the Mississippi River.

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

Source: EIA Coal Supply and Transportation Model projections.

Table 3. Projected U.S. Coal Consumption (Million Short Tons)

| | | Base Case | • | Revenue Adequacy Case | | | |
|------------------------|------|-----------|-------|-----------------------|------|-------|--|
| Sector | 1985 | 1990 | 1995 | 1985 | 1990 | 1995 | |
| Utilities | 656 | 771 | 930 | 651 | 751 | 902 | |
| Industrial | 77 | 94 | 119 | 77 | 88 | 115 | |
| Coking | 49 | 52 | 66 | 49 | 50 | 63 | |
| Residential/Commercial | 7 | 6 | 4 | 7 | 6 | 4 | |
| Synthetic Fuels | 6 | 6 | 11 | 6 | 6 | 11 | |
| Total | 794 | 928 | 1,130 | 788 | 900 | 1,095 | |

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

nous coal, and lignite.

Source: EIA Coal Supply and Transportation Model projections.

² States west of the Mississippi River.

Coal production shown includes bituminous coal, subbituminous coal, and lignite.

[·] Coal consumption shown includes bituminous coal, subbitumi-

HIGHLIGHTS:

Port Deepening and User Fees: Impact on U.S. Coal Exports

From 1950 to 1979, coal¹ exported from the United States averaged about 50 million short tons per year. In 1980, exports rose to 90 million tons as foreign buyers looked to the United States to supply coal that Australia and Poland could not supply due to labor and political problems in those countries. In 1982, 13 percent (105 million tons) of all coal produced in the United States was exported. The United States sold more coal than any other exporter, but remained a marginal supplier because of the relatively high delivered cost of U.S. coal.

The competitive position of U.S. coal exports could be improved if the channels of major U.S. coal ports were deepened to permit use by larger, more cost-efficient, deep-draft coal carriers, thus lowering the price of coal delivered to foreign markets. The Energy Information Administration (EIA) recently released a report that analyzes the effect of imposing user fees to cover port channel maintenance and deepening costs, which historically have been borne by the Federal Government. Channel deepening could lower the price of U.S. export coal because larger vessels, which carry coal at lower per unit costs, could be used. User fees, on the other hand, would raise the price of U.S. export coal as exporters pass on those costs to customers.

Seven U.S. ports were examined in the EIA study, but most analysis centered on the Baltimore, Hampton Roads, New Orleans, and Mobile ports because of their high coal export levels and channel deepening plans. Table 1 shows the estimated costs to deepen channels in the four ports and the annual costs to operate and maintain the channels. Operations and maintenance costs for the New Orleans port are high because of the need to remove the large quantity of silt that is continually carried downstream by the Mississippi River.

The effect on the level of U.S. coal exports is determined by weighing potential decreases in export costs due to channel deepening against cost increases attributable to user fees. User fees proposed to support deepening, operating, and maintaining the channels were estimated for the four ports for each of three legislative proposals. The legislative proposals are (1) House of Representatives Bill 4627 (H.R. 4627), and (2) Senate Bill 809 (S. 809), both of which were introduced in the 97th Congress, and (3) a draft proposal recently developed by the U.S. Army Corps of Engineers. Under H.R. 4627, the Federal Government would continue to pay all costs for existing operations and maintenance of all U.S. ports, but local port authorities would pay 50 percent of the costs to deepen channels to more than 45 feet and 75 percent of all new operations and maintenance costs associated with the deepening. S. 809 would place a larger burden on the port authorities, requiring them to repay the Federal Government for all of the expenses incurred to operate, maintain, and deepen their respective port channels. Under the U.S. Army Corps of Engineers' proposal, port authorities would pay a nationally uniform tonnage fee covering 60 percent of all operations and maintenance costs of all U.S. ports. The costs of channel deepening would be split between the port authorities and the Federal Government, depending on the depth to which the channel is deepened.

Table 1. Estimated Channel Deepening and Annual Operations and Maintenance Costs (Millions of 1980 Dollars)

| Port | Channel Deepening Costs | Annual Operations and Maintenance Costs ¹ | | |
|-------------------|-------------------------------|---|--|--|
| Baltimore, MD | 384 | 4 | | |
| Hampton Roads, VA | 439 | 9 | | |
| New Orleans, LA | 480 | 140 | | |
| Mobile, AL | 372 | 7 | | |

If channels are deepened.

Source: Office of Policy, U.S. Army Corps of Engineers.

¹ Coal in this article means bituminous coal for steam and coking and excludes anthracite and lignite.

The estimation of user fees was based on two conditions as well as on the three proposals. The first condition assumed that all waterborne trade (exports, imports, and coastwise cargoes) in the port would share the local costs for all operations and maintenance and for channel deepening. The second condition assumed that all trade in the port would share the local costs for existing operations and maintenance but only coal exports using the port would defray local costs for channel deepening and the increase in operations and maintenance costs associated with the deepening.

A summary of the estimated user fees (Table 2) shows that the fees would range from a low of 12 cents per short ton, at the Baltimore port under H.R. 4627 with all trade sharing the total local costs, to a high of \$16.84 per short ton, at the New Orleans port under S. 809 with only coal exports paying for the channel deepening costs.

EIA analysts estimated U.S. coal exports in 1990 under the three user fees proposals and a base case, which assumes that U.S. port channels remain at their current depths in 1990 and that the Federal Government continues to pay for port operations and maintenance. Table 3 shows the estimates of U.S. coal exports based on the assumption that channels are deepened in only two ports—Baltimore and Hampton Roads, which are estimated to account for over 60 percent of total U.S. coal exports in 1990. The increases in coal exports under all three proposals would be small, ranging from 4.0 million short tons under S. 809 to 5.5 million short tons under H.R. 4627.

Two conclusions emerge from this analysis, which is based solely on economic considerations. The

Table 3. Estimated U.S. Coal Exports in 1990 If
Baltimore and Hampton Roads Port
Channels Are Deepened¹
(Million Short Tons)

| Region | Base Case ² | H.R. 4627 | S. 809 | Army³ |
|-------------------------|---------------------------|--------------|--------|-------|
| East Coast ⁴ | 126.6 | 133.3 | 131.8 | 132.0 |
| Gulf Coast | 13.3 | 12.1 | 12.1 | 12.2 |
| West Coast⁵ | 3.7 | 3.7 | 3.7 | 3.7 |
| Total | 143.6 | 149.1 | 147.6 | 148.0 |

1 All trade pays any applicable user fees.

³ U.S. Army Corps of Engineers.

⁵ Includes Alaskan ports.

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

Source: Energy Information Administration, International Coal Trade Model

first conclusion is that no major decrease in U.S. coal exports is likely to result from imposing user fees to cover existing port operations and maintenance costs. The second conclusion indicates that the level of U.S. coal exports in 1990 would be affected only marginally by deepening the channels of the major U.S. coal ports and by employing large deep-draft coal carriers. A few dollars saving on ocean transportation per ton of coal would not be sufficient to induce a significant increase in world demand for U.S. coal.

Port Deepening and User Fees: Impact on Coal Exports, DOE/EIA-0400, was published by EIA in August 1983. It is available from the Superintendent of Documents, Government Printing Office (stock number 061-003-00328-1) for \$3.75 per copy.

Table 2. Estimated User Fees for Channel Deepening and Operations and Maintenance, 1990 (1980 Dollars per Short Ton)

| | | All Trade¹ Pays | | Only Coal Exports Pay | | |
|-------------------|-----------|-----------------|-------|-----------------------|--------|-------------------|
| Port | H.R. 4627 | S. 809 | Army² | H.R. 4627 | S. 809 | Army ² |
| Baltimore, MD | 0.12 | 0.26 | 0.27 | 0.31 | 0.62 | 0.47 |
| Hampton Roads, VA | 0.17 | 0.34 | 0.31 | 0.23 | 0.45 | 0.38 |
| New Orleans, LA | 0.60 | 0.92 | 0.23 | 12.00 | 16.84 | 1.86 |
| Mobile, AL | 0.38 | 0.88 | 0.59 | 2.08 | 4.03 | 2.59 |

¹ All trade is composed of waterborne exports, imports, and coastwise movements.

Source: Energy Information Administration computations.

² The base case assumes that U.S. ports remain at their current channel depths in 1990 and that the Federal Government continues to pay for port operation and maintenance.

⁴ Includes Great Lakes ports in Ohio.

² U.S. Army Corps of Engineers.

Overview

Year-to-Date Summary

The United States produced 7.4 percent* less energy during the first 5 months of 1983 than during the same period in 1982, and U.S. energy consumption through May 1983 was down 5.8 percent compared to the previous year. Net imports of all energy was 2.6 percent higher, but net imports of petroleum to date were down 13.5 percent.

Production

Energy production during May 1983 totaled 5.1 quadrillion Btu, a 6.1-percent decrease from the level of production during May 1982. Natural gas production fell 11.8 percent and coal production was down 11.5 percent. Petroleum production decreased 0.3 percent. Production of all other forms of energy combined increased 7.0 percent.

Consumption

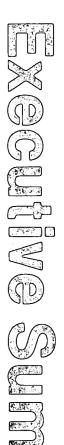
Energy consumption during May 1983 totaled 5.4 quadrillion Btu, 0.2 percent below the level of consumption during May 1982. Petroleum consumption decreased 4.0 percent, while natural gas increased 4.3 percent. Coal consumption remained virtually unchanged from the level in May 1982. Consumption of all other forms of energy combined increased 6.8 percent.

Net Imports

Net imports of energy during May 1983 totaled 0.6 quadrillion Btu, 16.4 percent above the level of imports during May 1982. Net imports of petroleum increased 0.9 percent, while net imports of natural gas decreased 1.6 percent. Net exports of coal dropped 31.5 percent compared to the level in May 1982.

Energy Summary (Quadrillion (1015) Btu)

| | May | | | Cumulative January through May | | | | |
|------------------------|---------|---------|-------------------|--------------------------------|-----------------------|---------|-----------------------|--------------------------------|
| | 1983 | 1982 | Percent Change | 1983 | 1983 Daily Rate | 1982 | 1982 Daily Rate | Percent Change ¹ |
| Total Production | 5.055 | 5.384 | -6.1 | 25.263 | 0.167 | 27.288 | 0.181 | -7.4 |
| Petroleum ² | 1.742 | 1.746 | -0.3 | 8.515 | 0.056 | 8.480 | 0.056 | . +0.4 |
| Natural Gas | 1.332 | 1.510 | -11.8 | 6.849 | 0.045 | 7.907 | 0.052 | -13.4 |
| Coal | 1.406 | 1.589 | -11.5 | 7.033 | 0.047 | 8.178 | 0.054 | -14.0 |
| Other ³ | 0.576 | 0.538 | +7.0 | 2.866 | 0.019 | 2.723 | 0.018 | +5.2 |
| Total Consumption | 5.420 | 5.433 | -0.2 | 29.368 | 0.194 | 31.176 | 0.206 | -5.8 |
| Petroleum ⁴ | 2.407 | 2.507 | -4.0 | 12.184 | 0.081 | 12.922 | 0.086 | -5.7 |
| Natural Gas | 1.217 | 1.167 | +4.3 | 8.063 | 0.053 | 8.976 | 0.059 | -10.2 |
| Coal | 1.195 | 1.196 | 0.0 | 6.128 | 0.041 | 6.427 | 0.043 | -4.7 |
| Other ^s | 0.601 | 0.563 | +6.8 | 2.993 | 0.020 | 2.851 | 0.019 | +5.0 |
| Net Imports | 0.630 | 0.541 | + 16.4 | 2.802 | 0.019 | 2.730 | 0.018 | +2.6 |
| Petroleum ^e | 0.722 | 0.715 | +0.9 | 2.963 | 0.020 | 3.424 | 0.023 | -13.5 |
| Natural Gas | 0.062 | 0.063 | -1.6 | 0.437 | 0.003 | 0.389 | 0.003 | +12.2 |
| Coal ⁷ | (0.179) | (0.262) | (-31.5) | (0.726) | (0.005) | (1.211) | (0.008) | (-40.1) |
| Other ^a | 0.026 | 0.025 | +3.3 | 0.127 | 0.001 | 0.128 | 0.001 | -0.1 |



^{*}All percentage increases/decreases are calculated using a daily rate prior to rounding.

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

Includes hydroelectric, nuclear, and geothermal power and electricity produced from wood and waste.

Includes refined petroleum products and natural gas plant liquids. Includes hydroelectric, nuclear, and geothermal power, electricity produced from wood and waste, and net imports of electricity and coal coke.

Includes crude oil, lease condensate, refined petroleum products, unfinished oils, natural gasoline, plant condensate, and

imports of crude oil for the Strategic Petroleum Reserve.

Parentheses indicate exports are greater than imports.

Includes net imports of electricity and coal coke

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

Energy Summary¹

| | | Energy Production ² | Energy Consumption ² | Energy Imports ² | Energy Exports |
|------|------------|-----------------------------------|------------------------------------|--------------------------------|-------------------|
| • | | | Quadrillion | (10 ^{,15}) Btu | |
| 1973 | TOTAL | 62.433 | 74.609 | 14.732 | 2.073 |
| 1974 | TOTAL | 61.229 | 72.759 | 14.417 | 2.241 |
| 1975 | TOTAL | 60.059 | 70.707 | 14.113 | 2.389 |
| 1976 | TOTAL | 60.091 | 74.510 | 16.838 | 2.213 |
| 1977 | TOTAL | 60.293 | 76.332 | 20.092 | 2.097 |
| 1978 | TOTAL | 61.231 | 78.175 | 19.261 | 1.952 |
| 1979 | TOTAL | 63.851 | 78.910 | 19.620 | 2.900 |
| 1980 | | | | | |
| | TOTAL | 64.812 | 75.988 | 15.972 | 3.726 |
| 1981 | January | 5.448 | 7.459 | 1.346 | 0.261 |
| | February | 5.187 | 6.330 | 1.210 | 0.278 |
| | March | 5.678 | 6.440 | 1.193 | 0.370 |
| | April | 4.595 | 5.709 | 1.084 | 0.325 |
| | May | 4.729 | 5.764 | 1.131 | 0.274 |
| | June | 5.199 | 5.816 | 1.041 | 0.246 |
| | July | 5.544 | 6.023 | 1.140 | 0.393 |
| | August | 5.718 | 5.924 | 1.132 | 0.420 |
| | September | 5.538 | 5.650 | 1.201 | 0.412 |
| | October | 5.688 | . 5.971 | 1.179 | 0.466 |
| | November | 5.420 | 5.975 | 1.109 | 0.440 |
| | December . | 5.687 | 6.922 | 1.172 | 0.431 |
| | TOTAL | 64.432 | 73.984 | 13.939 | 4.318 |
| 1982 | January | 5.472 | R7.245 | 1.086 | 0.318 |
| | February | 5.221 | R6.286 | 0.890 | 0.376 |
| | March | 5.815 | 6.356 | 0.915 | 0.442 |
| | April | 5.396 | R5.856 | 0.859 | 0.426 |
| | May | 5.384 | R5.433 | 0.960 | 0.419 |
| | June | 5.313 | R5.405 | 1.014 | 0.415 |
| | July | 5.147 | R5.670 | 1.154 | 0.385 |
| | August | 5.346 | R5.630 | 1.034 | 0.358 |
| • | September | 5.092 | R5.378 | 1.034 | 0.376 |
| | October | 5.217 | R5.541 | 1.059 | 0.438 |
| | November | 5.064 | R5.806 | 1.117 | 0.351 |
| | December | 5.179 | R6.282 | 0.966 | 0.322 |
| | TOTAL | 63.647 | R70.887 | 12.089 | 4.626 |
| 1983 | January | R5.239 | R6.524 | 0.935 | 0.302 |
| | February | R4.806 | R5.714 | 0.727 | 0.264 |
| | March | R5.245 | R6.093 | 0.773 | 0.318 |
| | April | R4.919 | R5.616 | 0.930 | 0.311 |
| | May | 5.055 | 5.420 | 0.973 | 0.342 |

¹For definitions, see Notes on the last page of this section.

²The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation, and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces in Europe; and adjustments to account for discrepancies between reporting systems.

R = Revised data.

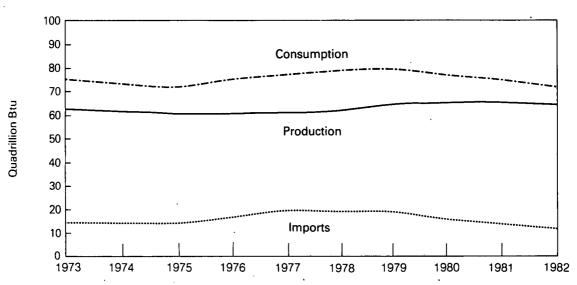
Notes: • Geographic coverage is the 50 States and the District of Columbia.

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

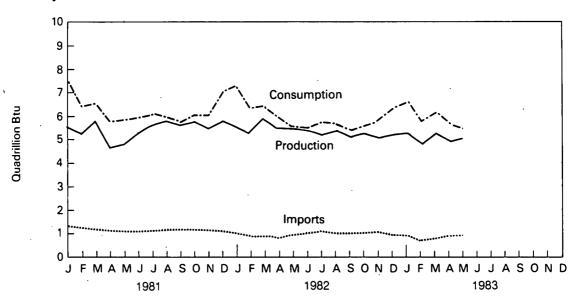
Source: • Energy Information Administration calculations based on data appearing elsewhere in this publication.

Energy Summary

Yearly



Monthly



Production of Energy by Source

| | | Coal ¹ | Crude Oil ² | NGPL ³ | Natural Gas (Dry) | Hydro- electric Power¹ | Nuclear Electric Power | Other ^s | Total Energy Produced | Yearly Cumulative Energy Produced |
|--------|------------------------------|-------------------------|---------------------------|-------------------------|---------------------------|------------------------------|------------------------------|-------------------------|-----------------------------|--|
| | | | | | Quadrillion | (1015) Btu | | | | |
| 1973 | TOTAL | 14.366 | 19.493 | 2.569 | 22.187 | 2.861 | 0.910 | 0.046 | 62.433 | |
| 1974 | TOTAL | 14.468 | 18.575 | 2.471 | 21.210 | 3.177 | 1.272 | 0.056 | 61.229 | |
| 1975 | TOTAL | 15.189 | 17.729 | 2.374 | 19.640 | 3.155 | 1.900 | 0.072 | 60.059 | |
| 1976 | TOTAL | 15.853 | 17.262 | 2.327 | 19.480 | 2.976 | 2.111 | 0.081 | 60.091 | |
| 1977 | TOTAL | 15.829 | 17.454 | 2.327 | 19.565 | 2.333 | 2.702 | 0.082 | 60.293 | |
| 1978 | TOTAL | 15.037 | 18.434 | 2.245 | 19.485 | 2.937 | 3.024 | 0.068 | 61.231 | |
| 1979 | TOTAL | 17.651 | 18.104 | 2.286 | 20.076 | 2.931 | 2.715 | 0.089 | 63.851 | • |
| 1980 | TOTAL | 18.640 | 18.249 | 2.254 | 19.916 | 2.900 | 2.739 | 0.114 | 64.812 | |
| 1981 | January February March | 1.476 1.588 1.752 | 1.535 1.397 1.549 | 0.201 0.182 | 1.730 1.553 1.711 | 0.235 0.222 | 0.259 0.236 | 0.011 0.010 | 5.448 5.187 | 5.448 10.635 |
| | April May | 0.812 0.853 | 1.489 1.529 | 0.198 0.188 0.194 | 1.651 1.675 | 0.217 0.218 0.254 | 0.240 0.225 0.215 | 0.011 0.010 0.010 | 5.678 4.595 4.729 | 16.313 20.908 25.637 |
| | June July | 1.378 1.659 | 1.501 1.528 | 0.188 0.189 | . 1.614 1.642 | 0.277 0.264 | 0.231 0.252 | 0.010 0.011 | 5.199 5.544 | 30.837 36.381 |
| | August September | 1.764 1.829 | 1.543 1.497 | 0.197 0.190 | 1.683 1.557 | 0.227 0.187 | 0.294 0.266 | 0.011 0.011 | 5.718 5.538 | 42.100 47.638 |
| | October November | 1.908 1.715 | 1.540 1.494 | 0.195 0.192 | 1.620 1.562 | 0.190 0.199 | 0.224 0.249 | 0.011 0.010 | 5.688 5.420 | 53.326 58.746 |
| | December TOTAL | 1.709 18.443 | 1.544 18.146 | 0.194 2.307 | 1.696 19.694 | 0.251 2.741 | 0.284 2.974 | 0.010 0.127 | 5.687 64.432 | 64.432 |
| 1982 . | January February | 1.495 1.583 | 1.530 1.413 | 0.192 0.172 | 1.684 | 0.282 | 0.280 | 0.009 | 5.472 | 5.472 |
| | March April | 1.867 1.644 | 1.558 1.495 | 0.172 0.191 0.182 | 1.545 1.630 1.538 | 0.280 0.313 0.293 | 0.220 0.248 0.238 | 0.008 0.007 0.007 | 5.221 5.815 5.396 | 10.694 16.509 21.905 |
| | May June | 1.589 1.602 | 1.561 1.504 | 0.185 0.178 | 1.510 1.464 | 0.294 0.294 | 0.236 0.262 | 0.008 0.010 | 5.384 5.313 | 27.288 32.602 |
| | July August September | 1.347 1.622 1.512 | 1.557 1.552 1.514 | 0.184 0.186 0.179 | 1.484 1.452 1.392 | 0.286 0.251 0.209 | 0.278 0.273 0.277 | 0.010 0.010 0.010 | 5.147 5.346 5.092 | 37.748 43.094 48.187 |
| | October November | 1.577 1.419 | 1.565 1.513 | 0.186 0.190 | 1.418 1.433 | 0.207 0.244 | 0.254 0.253 | 0.011 0.011 | 5.032 5.217 5.064 | 53.404 58.468 |
| | December TOTAL | 1.400 18.657 | 1.546 18.309 | 0.198 2.224 | 1.470 18.019 | 0.291 3.245 | 0.266 3.084 | 0.009 0.108 | 5.179 63.647 | 63.647 |
| 1983 | January February | 1.390 1.354 | 1.552 1.406 | 0.203 0.174 | R1.501 R1.328 | 0.308 0.293 | 0.274 0.242 | 0.011 | R5.239 R4.806 | R5.239 R10.045 |
| | March April May | 1.533 1.351 1.406 | 1.560 1.511 1.561 | 0.188 0.177 0.181 | R1.376 R1.312 1.332 | 0.318 0.315 0.327 | 0.261 0.244 0.241 | 0.010 0.009 0.007 | R5.245 R4.919 5.055 | R15.290 R20.209 25.263 |
| | • | | | | | | | | | |

Includes bituminous coal, lignite, and anthracite.
Includes lease condensate.
Natural gas plant liquids.
Includes industrial and utility production of hydropower.
Includes geothermal power and electricity produced from wood and waste.

R = Revised data.

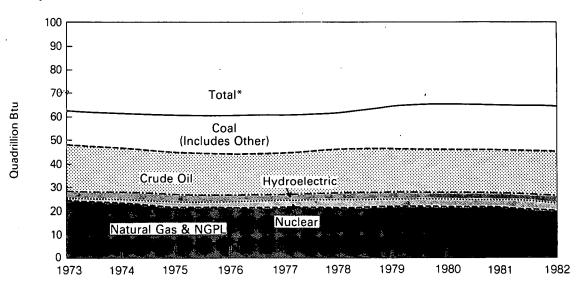
Notes: • Geographic coverage is the 50 States and the District of Columbia.

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

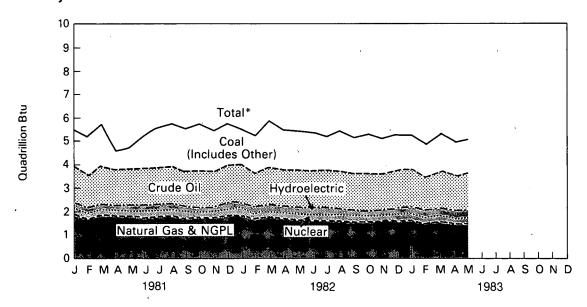
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Production of Energy by Source

Yearly



Monthly



^{*}Btu equivalents for all fuels were cumulated to create total.

Consumption of Energy by Source

| | • | | | | | | Net Imports | | Total | Yearly |
|------|--------------|----------------|-------------------------|----------------|--|------------------------------|---------------------------------|----------------|-------------------------|----------------------------------|
| | | Coal¹ | Natural Gas (Dry) | Petro- leum | Hydro- electric Power ² | Nuclear Electric Power | of Coal Coke ³ | Other• | Energy Con- sumed | Cumulative Energy Consumed |
| | | | | | Quadrillion | 1 (10¹⁵) Btu | | | | |
| 1973 | TOTAL | 13.300 | 22.512 | 34.840 | 3.010 | 0.910 | (800.0) | 0.046 | 74.609 | |
| 1974 | TOTAL | 12.876 | 21.732 | 33.455 | 3.309 | 1.272 | 0.059 | 0.056 | 72.759 | |
| 1975 | TOTAL | 12.823 | 19.948 | 32.731 | 3.219 | 1.900 | 0.014 | 0.072 | 70.707 | |
| 1976 | TOTAL | 13.733 | 20.345 | 35.175 | 3.066 | 2.111 | 0.000 | 0.081 | 74.510 | |
| 1977 | TOTAL | 13.964 | 19.931 | 37.122 | 2.515 | 2.702 | 0.015 | 0.082 | 76.332 | |
| 1978 | TOTAL | 13.846 | 20.000 | 37.965 | 3.141 | 3.024 | 0.131 | 0.068 | 78.175 | |
| 1979 | TOTAL | 15.109 | 20.666 | 37.123 | 3.141 | 2.715 | 0.066 | 0.089 | 78.910 | |
| 1980 | TOTAL | 15.461 | 20.391 | 34.202 | 3.118 | 2.739 | (0.037) | 0.114 | 75.988 | |
| 1981 | January | 1.473 | 2.341 | 3.113 | 0.263 | 0.259 | 0.000 | 0.011 | 7.459 | 7.459 |
| | February | 1.302 | 1.945 | 2.592 | 0.247 | 0.236 | (0.001) | 0.010 | 6.330 | 13.790 |
| | March | 1.310 | 1.951 | 2.686 | 0.244 | 0.240 | (0.003) | 0.011 | 6.440 | 20.230 |
| | April | 1.191 | 1.529 | 2.509 | 0.245 | 0.225 | (0.001) | 0.010 | 5.709 | 25.939 |
| | May June | 1.200 1.301 | 1.465 1.344 | 2.593 | 0.281 | 0.215 | 0.000 | 0.010 | 5.764 | 31.702 |
| | July | 1.469 | 1.344 | 2.631 2.649 | 0.304 0.292 | 0.231 0.252 | (0.004) | 0.010 | 5.816 | 37.519 |
| | August | 1.437 | 1.349 | 2.578 | 0.255 | 0.252 | 0.000 0.000 | 0.011 0.011 | 6.023 5.924 | 43.542 49.465 |
| | September | 1.302 | 1.300 | 2.559 | 0.233 | 0.254 | (0.002) | 0.011 | 5.924 5.650 | 49.465 55.116 |
| | October | 1.290 | 1.559 | 2.672 | 0.218 | 0.224 | (0.002) | 0.011 | 5.971 | 61.087 |
| | November | 1.280 | 1.663 | 2.548 | 0.226 | 0.249 | 0.000 | 0.010 | 5.975 | 67.062 |
| | December | 1.418 | 2.133 | 2.803 | 0.278 | 0.284 | (0.003) | 0.010 | 6.922 | 73.984 |
| | TOTAL | 15.973 | 19.930 | 31.931 | 3.066 | 2.974 | (0.017) | 0.127 | 73.984 | 70.00 |
| 1982 | January | 1.498 | R2.426 | 2.723 | 0.310 | .0.280 | 0.000 | 0.009 | R7.245 | R7.245 |
| | February | 1.303 | R2.011 | 2.441 | 0.305 | 0.220 | (0.001) | 0.008 | R6.286 | 13.531 |
| | March | 1.270 | 1.864 | 2.628 | 0.341 | 0.248 | (0.002) | 0.007 | _ 6.356 | 19.886 |
| | April May | 1.161 | R1.509 | 2.623 | 0.320 | 0.238 | (0.001) | 0.007 | R5.856 | R25.743 |
| | June | 1.196 1.220 | R1.167 R1.145 | 2.507 2.451 | 0.322 | 0.236 | (0.003) | 0.008 | R5.433 | R31.176 |
| | July | 1.392 | R1.177 | 2.451 | 0.320 0.314 | 0.262 0.278 | (0.004) (0.003) | 0.010 0.010 | R5.405 R5.670 | R36.580 |
| | August | 1.385 | R1.179 | 2.506 | 0.314 | 0.278 | (0.003) | 0.010 | R5.630 | R42.251 R47.880 |
| | September | 1.237 | R1.167 | 2.455 | 0.236 | 0.273 | (0.001) | 0.010 | R5.378 | R53.258 |
| | October | 1.200 | R1.334 | 2.509 | 0.235 | 0.254 | (0.001) | 0.010 | R5.541 | R58.799 |
| | November | 1.239 | _ R1.580 | 2.453 | 0.271 | 0.253 | (0.002) | 0.011 | R5.806 | R64.605 |
| | December | 1.313 | R1.761 | 2.616 | 0.319 | 0.266 | (0.001) | 0.009 | R6.282 | R70.887 |
| | TOTAL | 15.412 | R18.319 | 30.416 | 3.571 | 3.084 | (0.023) | 0.108 | R70.887 | • |
| 1983 | January | 1.376 | R2.037 | 2.494 | 0.335 | 0.274 | (0.001) | 0.011 | R6.524 | R6.524 |
| | February | 1.190 | R1.704 | 2.253 | 0.318 | 0.242 | (0.001) | 0.008 | R5.714 | R12.239 |
| | March | 1.207 | R1.657 | 2.615 | 0.345 | 0.261 | (0.001) | 0.010 | R6.093 | . R18.332 |
| | April | 1.160 | R1.449 | 2.415 | 0.341 | 0.244 | (0.002) | 0.009 | R5.616 | R23.948 |
| | May | 1.195 | 1.217 | 2.407 | 0.355 | 0.241 | (0.002) | 0.007 | 5.420 | 29.368 |

Includes bituminous coal, lignite, and anthracite.
Includes industrial and utility production and net imports of electricity.
Parentheses indicate exports are greater than imports.
Includes geothermal power and electricity produced from wood and waste.

R = Revised data.

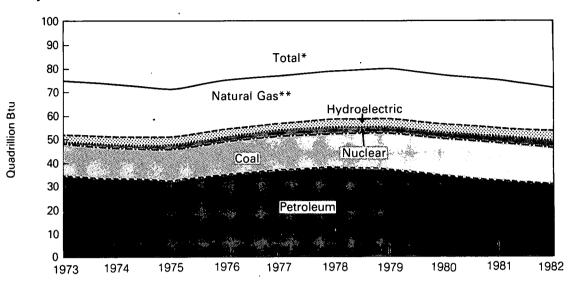
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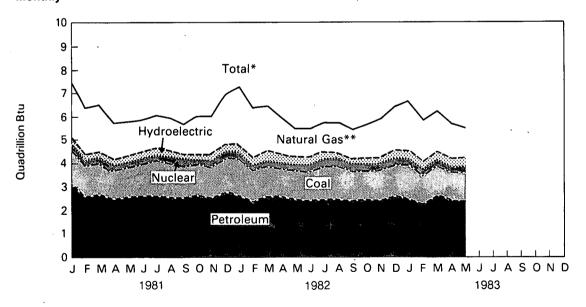
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Consumption of Energy by Source

Yearly



Monthly



^{*}Btu equivalents for all fuels were cumulated to create total.
**Includes net imports of coal coke and other.

Net Imports¹ of Energy by Source

| | | Coal ² | Crude Oil ³ | Refined Petro- leum Products ⁴ | Natural Gas (Dry) | Electri- city | Coal Coke | Total Net Imports | Yearly Cumulative Net Imports of Energy |
|------|---|---|--|---|--|---|---|--|--|
| | | | • | Quad | drillion (1015) | Btu | | | |
| 1973 | TOTAL | (1.443) | 6.883 | 6.097 | 0.981 | 0.148 | (0.008) | 12.659 | |
| 1974 | TOTAL | (1.585) | 7.389 | 5.273 | 0.907 | 0.133 | 0.059 | 12.175 | |
| 1975 | TOTAL | (1.766) | 8.708 | 3.800 | 0.904 | 0.064 | 0.014 | 11.725 | |
| 1976 | TOTAL | (1.590) | 11.221 | 3.982 | 0.922 | 0.089 | 0.000 | 14.625 | |
| 1977 | TOTAL | (1.424) | 13.921 | 4.321 | 0.981 | 0.182 | 0.015 | 17.995 | • |
| 1978 | TOTAL | (1.024) | 13.125 | 3.932 | 0.941 | 0.204 | 0.131 | 17.309 | |
| 1979 | TOTAL | (1.730) | 13.328 | 3.603 | 1.243 | 0.211 | 0.066 | 16.720 | |
| 1980 | TOTAL | (2.390) | 10.586 | 2.912 | 0.957 | 0.217 | (0.037) | 12.246 | |
| 1981 | January February March April May June July August September October November December | (0.151) (0.175) (0.252) (0.215) (0.157) (0.158) (0.281) (0.292) (0.310) (0.321) (0.308) (0.299) (2.918) | 0.829 0.762 0.778 0.723 0.717 0.687 0.728 0.717 0.794 0.749 0.658 0.712 | 0.293 0.240 0.196 0.161 0.210 0.181 0.210 0.199 0.219 0.184 0.214 0.215 2.522 | 0.087 0.081 0.076 0.065 0.059 0.061 0.062 0.060 0.075 0.078 0.089 | 0.028 0.025 0.028 0.027 0.028 0.027 0.028 0.028 0.027 0.028 0.027 0.028 0.027 | 0.000 (0.001) (0.003) (0.001) 0.000 (0.004) 0.000 (0.002) (0.003) 0.000 (0.003) | 1.085 0.932 0.823 0.759 0.857 0.794 0.747 0.712 0.790 0.713 0.668 0.741 | 1.085 2.018 2.840 3.599 4.456 5.250 5.997 6.709 7.498 8.211 8.879 9.621 |
| 1982 | January February March April May June July August September October November December | (0.160) (0.234) (0.273) (0.283) (0.262) (0.279) (0.239) (0.190) (0.225) (0.259) (0.202) (0.157) (2.763) | 0.623 0.438 0.461 0.467 0.550 0.653 0.725 0.640 0.603 0.613 0.629 0.506 6.907 | 0.181 0.206 0.181 0.153 0.166 0.146 0.195 0.144 0.196 0.167 0.228 0.161 2.124 | 0.096 0.081 0.078 0.071 0.063 0.056 0.063 0.056 0.062 0.073 0.087 0.106 0.892 | 0.028 0.025 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 0.027 0.028 | 0.000 (0.001) (0.002) (0.003) (0.004) (0.003) (0.001) (0.003) (0.001) (0.002) (0.001) | 0.768 0.515 0.473 0.433 0.541 0.599 0.769 0.676 0.658 0.621 0.767 0.644 7.463 | 0.768 1.282 1.755 2.188 2.730 3.329 4.098 4.774 5.432 6.053 6.819 7.463 |
| 1983 | January February March April May | (0.115) (0.113) (0.162) (0.156) (0.179) | 0.509 0.327 0.371 0.535 0.533 | 0.097 0.127 0.132 0.144 0.189 | 0.117 0.098 0.087 0.073 0.062 | 0.028 0.025 0.028 0.027 0.028 | (0.001) (0.001) (0.001) (0.002) (0.002) | 0.633 0.463 0.455 0.620 0.630 | 0.633 1.096 1.552 2.171 2.802 |

¹Net imports equals imports minus exports. Parentheses indicate exports are greater than imports.

²Includes bituminous coal, lignite, and anthracite.

³Includes crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.

⁴Includes refined petroleum products, unfinished oils, natural gasoline, and plant condensate.

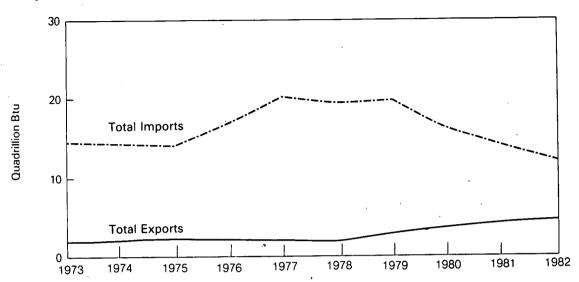
Notes: • Geographic coverage is the 50 States and the District of Columbia.

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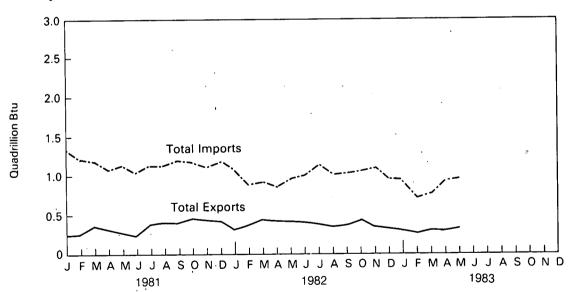
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Energy Imports and Exports

Yearly



Monthly



Merchandise Trade Value

| | | | Exports | | Imports Trade B | | Trade Bala | Balance | | |
|--------|---------------------|--------|--------------|---------|-----------------|----------------|------------|------------------|--------------|---------------------|
| | | Energy | All Other | Total | Energy | · All Other | Total | Energy | All Other | Total |
| | | | | | | Million dolla | ars | | | |
| 1974 | TOTAL | NA | NA | 98,092 | NA | NA | 102,559 | NA | NA | -4,467 |
| 1975 | TOTAL | 4,470 | 103,182 | 107,652 | 28,325 | 70,178 | 98,503 | -23,855 | +33,004 | +9,149 |
| 1976 | TOTAL | 4,226 | 110,997 | 115,223 | 36,384 | 87,093 | 123,477 | -32,158 | +23,904 | -8,254 |
| . 1977 | TOTAL | 4,184 | 117,048 | 121,232 | 47,153 | 103,237 | 150,390 | -42,969 | + 13,811 | -29,158 |
| 1978 | TOTAL | 3,882 | 139,799 | 143,681 | 44,763 | 129,994 | 174,757 | -40,881 | +9,805 | -29, 196 -31,076 |
| 1979 | TOTAL | 5,675 | 176,185 | 181,860 | 63,077 | 146,381 | 209,458 | -57,402 | +29,804 | |
| 1980 | TOTAL | 7,982 | 212,644 | 220,626 | 82,924 | • | • | | | -27,599 |
| 1981 | | • | • | | • | 161,947 | 244,871 | -74,942 | +50,697 | -24,244 |
| 1301 | January Fobruary | 756 | 18,146 | 18,902 | 8,007 | 14,609 | 22,616 | -7,251 | +3,537 | -3,714 |
| | February March | 999 | 18,789 | 19,788 | 7,939 | 13,977 | 21,916 | -6,940 | +4,812 | -2,127 |
| | April | 939 | 20,339 | 21,278 | 6,471 | 14,558 | 21,029 | -5,532 | +5,781 | +249 |
| | • | 738 | 19,048 | 19,786 | 7,831 | 14,418 | 22,249 | -7,093 | +4,630 | -2,463 |
| | May | 593 | 18,306 | 18,899 | 6,075 | 15,157 | 21,232 | -5,482 | +3,149 | -2,333 |
| | June | 565 | 19,185 | 19,750 | 7,252 | 14,753 | 22,005 | -6,687 | +4,432 | -2,255 |
| | July | 847 | 18,442 | 19,289 | 5,687 | 14,427 | 20,114 | -4,840 | +4,015 | -825 |
| | August | 884 | 18,147 | 19,031 | 6,876 | 16,366 | 23,242 | -5,992 | +1,781 | -4,212 |
| | September | 939 | 18,612 | 19,551 | 6,555 | 14,719 | 21,274 | -5,616 | +3,893 | -1,724 |
| | October | 991 | 18,172 | 19,163 | 6,638 | 16,439 | 23,077 | -5,648 | +1,733 | -3,914 |
| | November | 997 | 18,156 | 19,153 | 6,608 | 15,900 | 22,508 | -5,611 | +2,256 | -3,356 |
| | December | 1,067 | 17,818 | 18,885 | 5,422 | 14,324 | 19,746 | -4,355 | +3,494 | -861 |
| | TOTAL | 10,279 | 223,398 | 233,677 | 81,360 | 179,622 | 260,982 | -71,081 | +43,776 | -27,305 |
| 1982 | January | 1,205 | 17,379 | 18,584 | 7,439 | 15,134 | 22.573 | -6,234 | +2,245 | -3,989 |
| | February | 1,361 | 17,253 | 18,614 | 5,107 | 14,463 | 19,570 | -3,746 | +2,245 | -3,969 -956 |
| | March | 1,256 | 17,206 | 18,462 | 5,009 | 15,010 | 20,019 | -3,753 | +2,196 | -956 -1,557 |
| | April | 1,201 | 16,804 | 18,005 | 4,312 | 13,402 | 17,714 | -3,111 | +3,402 | +291 |
| | May | 1,065 | 17,059 | 18,124 | 4,167 | 16,310 | 20,477 | -3,102 | +749 | -2,353 |
| | June | 1,035 | 17,788 | 18,823 | 5,427 | 15,760 | 21,187 | -4.392 | +2,028 | -2,364 |
| | July | 974 | 17,086 | 18,060 | 5,943 | 13,906 | 19,849 | -4,969 | +3,180 | -1,790 |
| | August | 961 | 16,502 | 17,463 | 6,353 | 16,577 | 22,930 | -5,392 | -75 | -5,467 |
| | September | 998 | 16,322 | 17,320 | 5,201 | 15,380 | 20,581 | -4,203 | +942 | -3,467 |
| | October | 1,072 | 15,599 | 16,671 | 5,947 | 15,059 | 21,006 | -4,875 | +540 | -4,335 |
| | November | 847 | 15,005 | 15,852 | 5,037 | 13,855 | 18,892 | -4,190 | +1,150 | -3,041 |
| | December | 855 | 15,492 | 16,347 | 5,468 | 13,686 | 19,154 | -4,613 | +1,806 | -2,808 |
| | TOTAL | 12,729 | 199,464 | 212,193 | 65,409 | 178,543 | 243,952 | | +20,921 | -31,759 |
| 1983 | January | 1,132 | 16,261 | 17,393 | 5.142 | 14,879 | 20.021 | | | |
| | February | 878 | 15,448 | 16,326 | 3,704 | 15,311 | 19,015 | -4,010 | +1,382 | -2,628 |
| | March | 850 | 15,902 | 16,752 | 3,865 | 15,660 | 19,525 | -2,826 | +137 | -2,689 |
| | April | 892 | 15,182 | 16,074 | 3,763 | 16,008 | 19,525 | -3,015 -2,871 | +241 -826 | -2,774 |
| | May | 724 | 14,842 | 15,566 | 5,033 | 16,481 | 21,514 | • • • • • • | | -3,697 |
| | June | 752 | 16,256 | 17,008 | 4;767 | 16,257 | 21,024 | -4,309 -4,015 | -1,639 -1 | -5,948 -4,016 |

NA=Not available.

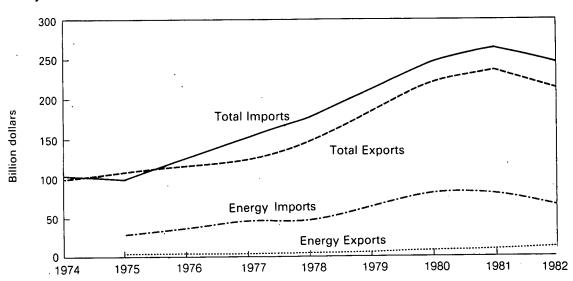
Notes: • Annual totals are unadjusted and may not equal the sum of monthly totals, which are adjusted for seasonal and working-day variation, if present and identifiable.

• The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory (which is comprised of the 50 States, the District of Columbia, and Puerto Rico) and the Virgin Islands.

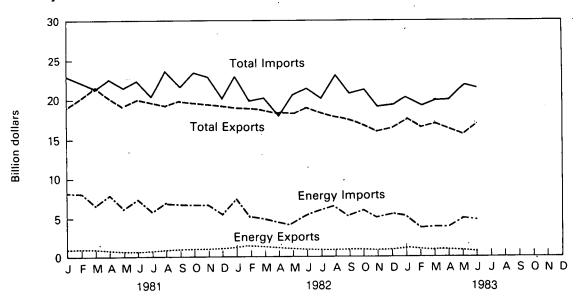
Additional Notes and Sources: • See the last page of this section.

Merchandise Trade Value

Yearly



Monthly



Population Weighted Cooling Degree-Days¹

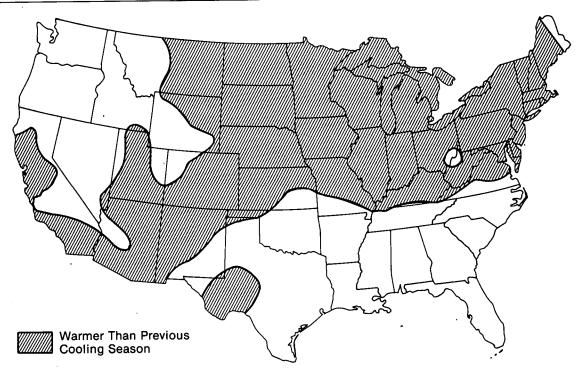
| | | July ' | through | July 31 | | | Janua | Cumulati y 1 throug | | |
|---|---------------------|--------|---------|-------------------|-----------------|---------------------|-------|------------------------|-------|-------|
| Census | | | | Percent | Change | | | | | |
| Divisions . | Normal ² | 1982 | 1983 | Normal to 1983 | 1982 to 1983 | Normal ² | 1982 | 1983 | | |
| New England Conn., Maine, Mass., N.H., R.I., Vt. | 178 | 187 | 233 | 30.9 | 24.6 | 217 | 213 | 326 | 50.2 | 53.1 |
| Middle Atlantic N.J., N.Y., Pa. | 253 | 234 | 283 | 11.9 | 20.9 | 393 | 305 | 419 | 6.6 | 37.4 |
| Eastern North Central III., Ind., Mich., Ohio, Wisc. | 239 | 255 | 342 | 43.1 | 34.1 | 441 | 381 | 511 | 15.9 | 34.1 |
| Western North Central lowa, Kans., Minn., Mo., Nebr., N.Dak., S.Dak. | 305 | 317 | 380 | 24.6 | 19.9 | 567 | 450 | 560 | -1.2 | 24.4 |
| South Atlantic Del., Fla., Ga., Md. and D.C., N.C., S.C., Va., W.Va. | 390 | 388 | 420 | 7.7 | 8.2 | 1,012 | 1,004 | 891 | -12.0 | -11.3 |
| Eastern South Central Ala., Ky., Miss., Tenn. | 409 | 421 | 436 | 6.6 | 3.6 | 935 | 904 | 771 | -17.5 | -14.7 |
| Western South Central Ark., La., Okla., Tex. | 552 | 550 | 522 | -5.4 | -5.1 | 1,420 | 1,376 | 1,121 | -21.1 | -18.5 |
| Mountain Ariz., Colo., Idaho, Mont., Nev., N.Mex., Utah, Wyo. | 301 | 285 | 300 | -0.3 | 5.3 | 536 | 542 | 547 | 2.1 | 0.9 |
| Pacific Coast Calif., Oreg., Wash. | 146 | 133 | 131 | -10.3 | -1.5 | 188 | 186 | 198 | 5.3 | 6.5 |
| U.S. AVERAGE® | 302 | 301 | 337 | 11.6 | 12.0 | 630 | 588 | 593 | -5.9 | 0.9 |

Weather data reported in the *Monthly Energy Review* are now taken directly from a computerized system recently implemented by the National Oceanic and Atmospheric Administration (NOAA). Differences between these data and those previously published include: (1) a new methodology for computing State degree-days adopted by NOAA, (2) utilization of 1980 State population data to compute State population weights, and (3) modification of the normal period from 1941–1970 to 1951–1980. In addition, State data previously shown by PAD Districts are now aggregated into Census Divisions. See Note 6 at the end of this section for further information.

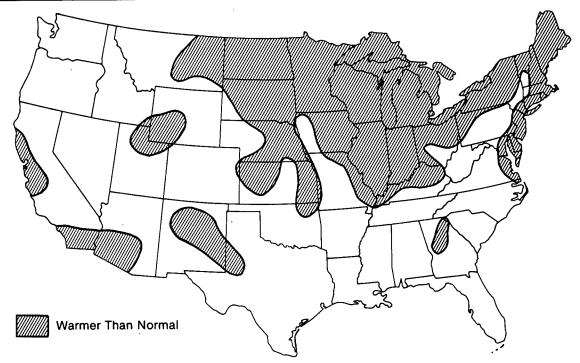
See Note on the last page of this section for explanation of degree-days.
 Normal is based on calculations of data from 1951 through 1980.
 Excludes Alaska and Hawaii.

Cooling Degree-Days Accumulated from January 1, 1983, through July 30, 1983

Departure from Previous Cooling Season



Departure from Normal

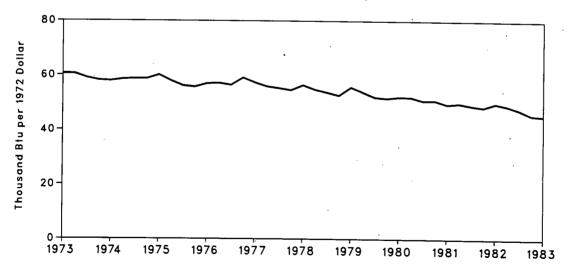


Source: • Department of Commerce—National Oceanic and Atmospheric Administration.

Energy Indicator—Energy Consumption per GNP Dollar (Seasonally Adjusted)

| | | Annual Rate | Gross Nati | onal Product | | | |
|------|--|--|--|--|---|--|--|
| | | of Energy Consumption | Current Dollars | 1972 Dollars¹ | Energy Consumption per GNP Dollar | | |
| | | Quadrillion Btu | Trillion | n Dollars | Thousand Btu per 1972 Dollar | | |
| 1973 | | 74.609 | 1.326 | 1.254 | 59.5 | | |
| 1974 | | 72.759 | 1.434 | 1.246 | 58.4 | | |
| 1975 | | 70.707 | 1.549 | 1.232 | 57.4 | | |
| 1976 | | 74.510 | 1.718 | 1.298 | 57.4 | | |
| 1977 | | 76.332 | 1.918 | 1.370 | 55.7 | | |
| 1978 | | 78.175 | 2.164 | 1.439 | 54.3 | | |
| 1979 | | 78.910 | 2.418 | 1.479 | 53.4 | | |
| 1980 | | 75.988 | 2.633 | 1.474 | 51.6 | | |
| 1981 | 1st Qtr ² 2nd Qtr ² 3rd Qtr ² 4th Qtr ² YEAR | 74.594 74.977 74.313 72.171 73.984 | 2.865 2.902 2.981 3.003 2.938 | 1.508 1.502 1.510 1.490 1.503 | 49.5 49.9 49.1 48.5 49.2 | | |
| 1982 | 1st Qtr ² 2nd Qtr ² 3rd Qtr ² 4th Qtr ² YEAR | R73.377 R72.406 R70.461 R67.501 R70.887 | 2.996 3.045 3.088 3.108 3.059 | 1.471 1.478 1.481 1.477 1.477 | 49.9 49.0 47.6 45.7 48.0 | | |
| 1983 | 1st Qtr ² | R67.720 | R3.172 | 'R1.490 | R45.4 | | |

Energy Consumption per GNP Dollar (Seasonally Adjusted)



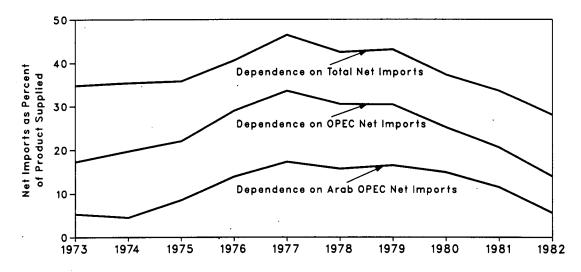
¹Current dollars are converted to 1972 dollars by the Department of Commerce, Bureau of Economic Analysis. ²Quarterly data are seasonally adjusted and shown at annual rates. R=Revised data.

Notes • Geographic coverage is the 50 States and the District of Columbia.
• Yearly data may not equal sum of quarters due to seasonality adjustments and independent rounding. Sources: • See the last page of this section.

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

Net Imports as Percent of **U.S. Petroleum Products Supplied** Net Imports² **Domestic** Petroleum from from from from from Arab OPEC³ All OPEC Arab OPEC³ All OPEC ΑII **Products** Αll Countries Countries Supplied **Countries Countries** Countries Countries Thousand Barrels per Day Percent **ANNUAL RATE** 5.3 17.3 34.8 6,025 17,308 1973 **AVERAGE** 915 2.991 5.891 16,653 4.5 19.7 35.4 751 3,277 1974 **AVERAGE** 22.0 35.8 3,598 5,847 16,322 8.5 1975 **AVERAGE** 1,382 40.6 29.0 7.090 17,461 13.9 1976 **AVERAGE** 2,423 5,063 46.5 17.3 33.6 8,564 18,431 6,190 1977 AVERAGE 3,184 30.5 42.5 8,001 18,847 15.7 **AVERAGE** 2.962 5,747 1978 30.4 43.1 7,985 18.513 16.5 **AVERAGE** 3,054 5,632 1979 37.3 25.2 17,056 1980 **AVERAGE** 2,549 4.293 6,365 14.9 12.0 22.2 34.9 5.964 17.113 2,060 3,804 1981 1st Qtr 32.7 1.786 5,099 15,597 11.5 20.0 2nd Qtr 3,117 5,400 20.5 34.8 15,532 12.0 1,857 3,181 3rd Qtr 32.2 4th Qtr 1,679 3.167 5,151 16,008 10.5 19.8 33.6 16.058 11.5 20.6 **AVERAGE** 1,845 3,315 5,401 7.0 15.1 25.4 15,891 1982 1st Qtr 1,105 2,391 4,038 2nd Qtr 817 1,925 4.074 15,292 5.3 12.6 26.6 14,893 15.0 31.7 5.5 4,720 3rd Qtr 820 2,239 28.8 15,120 4.4 13.2 4th Qtr 672 1,990 4,353 14.0 28.1 2,136 4,298 15,296 5.6 **AVERAGE** 851 20.1 2.3 7.6 346 1,139 3,024 15,015 1983 1st Qtr

U.S. Dependence on Petroleum Net Imports



¹Beginning in October 1977, Strategic Petroleum Reserves are included. *Net imports equals imports minus exports. Imports from OPEC countries exclude indirect imports which are refined products imported

Sources: • See the last page of this section.

primarily from Caribbean and West European areas and refined from crude oil produced in OPEC countries.

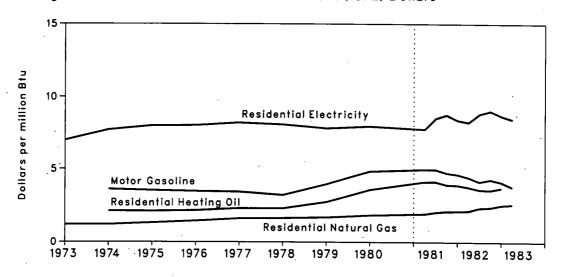
Includes Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.

Includes Arab OPEC countries plus Ecuador, Gabon, Indonesia, Iran, Nigeria, and Venezuela. Note: • Geographic coverage is the 50 States and the District of Columbia.

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

| | | | Regular Gasoline | | dential ing Oil | | lential al Gas | | lential ricity | |
|------|---|---|---|---|--|--|---|---|---|--|
| | | cent/gal | \$/MMBtu | cent/gal | \$/MMBtu | cent/Mcf | \$/MMBtu | cent/kWh | \$/MMBtu | |
| 1973 | AVERAGE | NA | NA | NA | NA | 121.2 | 1.19 | 2.39 | 7.00 | |
| 1974 | AVERAGE | 45.1 | 3.61 | 29.4 | 2.12 | 121.4 | 1.19 | 2.63 | 7.71 | |
| 1975 | AVERAGE | 44.1 | 3.53 | 29.3 | 2.11 | 132.8 | 1.30 | 2.73 | 8.00 | |
| 1976 | AVERAGE | 43.4 | 3.47 | 29.8 | 2.15 | 145.4 | 1.43 | 2.74 | 8.03 | |
| 1977 | AVERAGE | 42.9 | 3.43 | 31.8 | 2.29 | 162.2 | 1.59 | 2.80 | 8.21 | |
| 1978 | AVERAGE | 40.1 | 3.21 | 31.7 | 2.29 | 164.4 | 1.62 | 2.76 | 8.09 | |
| 1979 | AVERAGE | 49.4 | 3.95 | 37.8 | 2.73 | 171.5 | 1.68 | 2.67 | 7.83 | |
| 1980 | AVERAGE | 60.5 | 4.84 | 49.7 | 3.58 | 186.9 | 1.83 | 2.72 | 7.97 | |
| 1981 | 1st Qtr 2nd Qtr 3rd Qtr 4th Qtr AVERAGE | 62.1 62.1 59.3 57.9 60.4 | 4.97 4.97 4.74 4.63 4.83 | 57.0 57.2 54.4 54.0 55.7 | 4.11 4.12 3.92 3.89 4.0 1 | 197.5 209.1 215.0 216.3 209.7 | 1.93 2.04 2.10 2.11 2.05 | 2.65 2.91 2.99 2.87 2.85 | 7.77 8.53 8.76 8.41 8.35 | |
| 1982 | 1st Qtr 2nd Qtr 3rd Qtr 4th Qtr AVERAGE | 55.3 51.7 53.5 51.3 53.0 | 4.42 4.13 4.28 4.10 4.24 | 52.2 49.8 49.4 51.3 51.4 | 3.76 3.59 3.56 3.70 3.71 | 218.3 239.0 242.2 257.9 239.7 | 2.13 2.33 2.37 2.52 2.34 | 2.82 3.01 3.08 2.97 2.97 | 8.26 8.82 9.03 8.70 8.70 | |
| 1983 | 1st Qtr | 47.1 | 3.77 | NA | NA | 263.3 | 2.57 | 2.89 | 8.47 | |

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



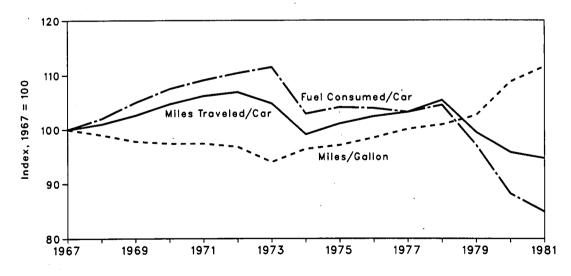
NA = Not available.

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

Energy Indicator—U.S. Passenger Car Efficiency

| | Average Fuel Consumed per Car | | | je Miles I per Car | Average Miles Traveled per Gallon of Fuel Consumed | | |
|------|----------------------------------|-------|--------|-----------------------|--|-------|--|
| | Gallons | Index | Miles | Index | Miles | Index | |
| 1967 | 684 | 100.0 | 9,531 | 100.0 | 13.93 | 100.0 | |
| 1968 | 698 | 102.0 | 9,627 | 101.0 | 13.79 | 99.0 | |
| 1969 | 718 | 105.0 | 9,782 | 102.6 | 13.63 | 97.8 | |
| 1970 | 735 | 107.5 | 9,978 | 104.7 | 13.57 | 97.4 | |
| 1971 | 746 | 109.1 | 10,121 | 106.2 | 13.57 | 97.4 | |
| 1972 | 755 | 110.4 | 10,184 | 106.9 | 13.49 | 96.8 | |
| 1973 | 763 | 111.5 | 9,992 | 104.8 | 13.10 | 94.0 | |
| 1974 | 704 | 102.9 | 9,448 | 99.1 | 13.43 | 96.4 | |
| 1975 | 712 | 104.1 | 9,634 | 101.1 | 13.53 | 97.1 | |
| 1976 | 711 | 103.9 | 9,763 | 102.4 | 13.72 | 98.5 | |
| 1977 | 706 | 103.2 | 9,839 | 103.2 | 13.94 | 100.1 | |
| 1978 | 715 | 104.5 | 10,046 | 105.4 | 14.06 | 100.9 | |
| 1979 | 664 | 97.1 | 9,485 | 99.5 | 14.29 | 102.6 | |
| 1980 | 603 | 88.2 | 9,135 | 95.8 | 15.15 | 108.8 | |
| 1981 | 581 | 84.9 | 9,026 | 94.7 | 15.54 | 111.6 | |

U.S. Passenger Car Efficiency Index



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 Executive Summary Section

Notes

1. Domestic Production: Domestic production of energy includes production of coal (anthracite, bituminous coal, and lignite), crude oil and lease condensate, natural gas plant liquids, natural gas (dry), electric utility and industrial production of hydropower, and electricity generated from nuclear power, geothermal power, and wood and waste. The volumetric data were converted to approximate heat contents (Btu values) of these energy sources using conversion factors listed on the inside back cover of this publication.

2. **Domestic Consumption:** Domestic consumption of energy includes consumption of coal (anthracite, bituminous coal, and lignite), natural gas (dry), refined petroleum products supplied, electric utility and industrial production of hydropower, net imports of electricity produced from hydropower, net imports of coke made from coal, and electricity generated from nuclear power, geothermal power, and wood and waste. Approximate heat contents (Btu values) were derived using conversion factors

listed on the inside back cover of this publication.

3. U.S. Energy Imports: U.S. energy imports include imports of bituminous coal, crude oil (including crude oil imported for the Strategic Petroleum Reserve), refined petroleum products, natural gas (dry), electricity produced from hydropower, and coke made from coal.

4. U.S. Energy Exports: U.S. energy exports include bituminous coal, crude oil, refined petroleum products, natural gas (dry),

electricity produced from hydropower, and coke made from coal.

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

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 convention. Heating degree-days are deviations of the mean daily temperature below 65° F. For example, if a weather station recorded a mean daily temperature below 65° F. For example, if a weather station recorded a mean daily temperature below 65° F. For example, if a weather station recorded a mean daily temperature below 65° F. For example, if a weather station recorded a mean daily temperature below 65° F. For example, if a weather station recorded a mean daily temperature below 65° F. For example, if a weather station recorded a mean daily temperature below 65° F. For example, if a weather station recorded a mean daily temperature of 78° F. For example, if a weather station recorded a mean daily temperature of 50° F. For example, if a weather station recorded a mean daily temperature days for that extra would be 13′ and heating degree.

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

There are several degree-day data bases maintained by the National Oceanic and Atmospheric Administration. The information published in the *Monthly Energy Review* (MER) is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland. The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at these weather stations is used to calculate statewide degree-day averages based on population. The State figures are then aggregated into Census Divisions and into the national average. The population weights currently in use 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, North Carolina, which compiles data from some 8,000 weather stations. Asheville, North Carolina, which compiles data from some 8,000 weather stations.

Sources

Merchanise 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 Merchanise 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

- 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 1981: Energy Information Administration (EIA), Energy Data Reports, "Petroleum Statement, Annual;" 1982 forward: EIA, Petroleum Statement, Monthly. Cost of Fuels to End Users in Constant (1972) Dollars: Motor gasoline—Bureau of Labor Statistics.
 Heating oil—Energy Information Administration (EIA), 1974 and 1975: Form CLC-92, "No. 2 Heating Oil Monthly Price Adjustment Report"; 1976 forward: FEA Form P112-M-1 and EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report."
 Natural gas—1973 through 1979: Bureau of Mines Form 6-1340-A, "Supply and Disposition of Natural Gas (non-producing distributors report)" and Form 6-1341-A, "Supply and Disposition of Natural Gas." 1980: Energy Information Administration Form EIA-176, "Supply and Disposition of Natural Gas." 1981 forward: Bureau of Labor Statistics (BLS).
 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."

- Stätement.
- Deflator (The Consumer Price Index)—U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business.
- U.S. Passenger Car Efficiency: Indexes prepared from statistics published by the U.S. Department of Transportation, Federal Highway Administration, Federal Highway Statistics Division, "Highway Statistics," Table VM-1.

Energy Consumption

Total U.S. energy consumption in May 1983 was 5.4 quadrillion Btu, 0.2 percent below the May 1982 level.

Residential and commercial sector consumption was 1.7 quadrillion Btu in May 1983, up 1.1 percent from the May 1982 level. The residential and commercial sector accounted for 31.8 percent of the May 1983 total consumption, up from the sector's 31.4-percent share in May 1982.

Industrial sector consumption was 2.1 quadrillion Btu in May 1983, up 0.7 percent from the May 1982 level. This sector consumed 38.6 percent of the May 1983 total, up from the sector's 38.2-percent share in May 1982.

Transportation sector consumption was 1.6 quadrillion Btu in May 1983, down 2.9 percent from the May 1982 level. This sector consumed 29.5 percent of the May 1983 total, compared to the sector's 30.3-percent share in May 1982.

The electric utilities consumption was an estimated 1.9 quadrillion Btu of energy in May 1983, 0.6 percent lower than in May 1982. Coal contributed 51.1 percent of the energy consumed by electric utilities in May 1983, while hydroelectric power contributed 18.7 percent; nuclear power, 12.8 percent; natural gas, 12.0 percent; petroleum, 5.1 percent; and geothermal and wood and waste, 0.4 percent.





Energy Consumption Summary for May 1983 (Quadrillion (1015) Btu)

| Primary Energy Source | Residential and Commercial | Industrial | Transportation | Electric Utilities | TOTAL |
|--------------------------|----------------------------------|------------|----------------|-----------------------|-------------|
| Coal | 0.012 | 0.216 | 0.000 | 0.963 | 1.195 |
| Natural Gas (dry) | 0.426 | 0.525 | 0.040 | 0.226 | 1.217 |
| Petroleum | 0.145 | 0.607 | 1.558 | 0.097 | 2.407 |
| Hydroelectric | 0.000 | 0.003 | 0.000 | 0.352 | 0.355 |
| Nuclear | 0.000 | 0.000 | 0.000 | 0.241 | 0.241 |
| Net Coke Imports | 0.000 | (0.002) | 0.000 | 0.000 | (0.002) |
| Other | 0.000 | 0.000 | 0.000 | 0.007 | 0.007 |
| | | | | | |
| TOTAL PRIMARY ENERGY | 0.584 | 1.349 | 1.598 | 1.885 | 5.420 |
| Electricity Sales | 0.327 | 0.214 | 0.001 | (0.542) | |
| | | | | | |
| Net Energy Consumption | 0.911 | 1.563 | 1.598 | | 4.077 |
| Electrical Energy Losses | 0.811 | 0.530 | 0.002 | (1.343) | 1.343 |
| • | | | | · | |
| TOTAL ENERGY CONSUMED | 1.722 | 2.093 | 1.600 | | 5.420 |

Notes: • Totals may not equal sum of components due to independent rounding and, in the case of coal, the use of preliminary conversion factors.



Additional notes and sources for this table and all other tables in this section are provided on the last four pages of this section.

Consumption of Energy by End-Use Sector

| | | Residential and Commercial | Industrial | Transportation | Total Energy Consumed |
|------|----------------------|-------------------------------|--------------------|----------------|-----------------------------|
| | | | Quadrillion | n (1015) Btu | |
| 1973 | TOTAL | 24.179 | 31.846 | 18.577 | 74.609 |
| 1974 | TOTAL | 23.761 | 30.900 | 18.091 | 72.759 |
| 1975 | TOTAL | 23.928 | 28.569 | 18.209 | 70.707 |
| 1976 | TOTAL | 25.041 | 30.393 | 19.068 | 74.510 |
| 1977 | TOTAL | 25.392 | 31.149 | 19.785 | 76.332 |
| 1978 | TOTAL | 26.108 | 31.493 | 20.574 | 78.175 |
| 1979 | TOTAL | 25.796 | 32.652 | 20.457 | 78.910 |
| 1980 | TOTAL | 25.666 | 30.638 | 19.683 | 75.988 |
| 1981 | January | 3.154 | 2.647 | 1.657 | 7.459 |
| | February | 2.640 | 2.221 | 1.471 | 6.330 |
| | March | 2.316 | 2.511 | 1.614 | 6.440 |
| | April | 1.833 | 2.279 | 1.599 | √5. 7 09 |
| | May | 1.705 | 2.425 | 1.633 | 5.764 |
| | June | 1.758 | 2.392 | 1.662 | 5.816 |
| | July | 1.900 | 2.419 | 1.700 | 6.023 |
| | August | 1.845 | 2.422 | 1.654 | 5.924 |
| | September October | 1.656 1.809 | 2.393 | 1.603 | 5.650 |
| | November | | 2.523 | 1.640 | 5.971 |
| | December | 1.988 2.608 | 2.418 | 1.571 | 5.975 |
| | | | 2.634 | 1.677 | 6.922 |
| 1000 | TOTAL | 25.213 | 29.285 | 19.481 | 73.984 |
| 1982 | January | 3.266 | R2.461 | 1.512 | R7.245 |
| | February | 2.803 | R2.044 | 1.436 | R6.286 |
| | March | 2.431 | 2.300 | 1.622 | 6.356 |
| • | April Mav | 2.048 R1.704 | R2.091 | 1.716 | R5.856 |
| | June | 1.684 | · R2.078 R2.103 | 1.647 | R5.433 |
| | July | 1.891 | R2.136 | 1.611 1.631 | R5.405 R5.670 |
| | August | 1.870 | R2.139 | 1.610 | R5.630 |
| | September | 1.710 | R2.092 | 1.568 | R5.378 |
| | October | 1.760 | R2.198 | ·1.577 | R5.541 |
| | November | 2.023 | R2.204 | 1.571 | R5.806 |
| | December | 2.484 | R2.192 | 1.597 | R6.282 |
| | TOTAL | 25.675 | R26.038 | 19.100 | R70.887 |
| 1983 | January | 2.829 | R2.225 | R1.460 | R6.524 |
| | February | 2.518 | R1.843 | R1.346 | R5.714 |
| | March | 2.274 | R2.155 | R1.656 | R6.093 |
| | April | 2.013 | R2.015 | R1.586 | R5.616 |
| | May | 1.722 | 2.093 | 1.600 | 5.420 |

R = Revised data.

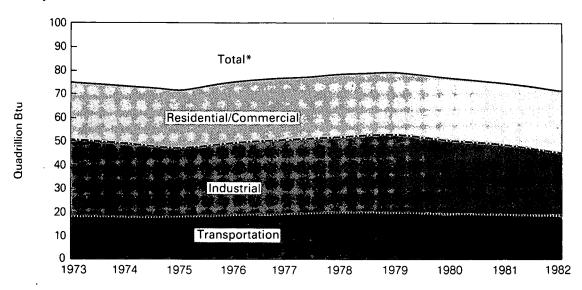
Notes: • Geographic coverage is the 50 States and the District of Columbia.

• Totals may not equal sum of components due to independent rounding and the use of preliminary conversion factors after 1981.

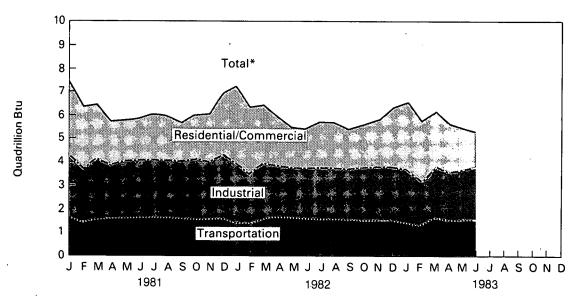
Additional Notes and Sources: • See the last four pages of this section.

Consumption of Energy by End-Use Sector

Yearly



Monthly



^{*}Btu consumption for all sectors were cumulated to create total.

Consumption of Energy by the Residential and Commercial Sector

| | | Coal | Natural Gas (Dry) | Petroleum | Electricity Sales | Electrical Energy Losses | Total Energy Consumed | Yearly Cumulative Energy Consumed |
|------|---------------------|----------------|-------------------------|----------------|----------------------|--------------------------------|-----------------------------|--|
| | | | | | Quadrillion (101 | 5) Btu | | |
| 1973 | TOTAL | 0.291 | 7.626 | 4.391 | 3.495 | 8.377 | 24.179 | |
| 1974 | TOTAL | 0.292 | 7.518 | 3.996 | 3.475 | 8.480 | 23.761 | |
| 1975 | TOTAL | 0.238 | 7.581 | 3.805 | ·3.604 | 8.700 | 23.928 | |
| 1976 | TOTAL | 0.227 | 7.866 | 4.181 | 3.747 | 9.020 | 25.041 | |
| 1977 | TOTAL | 0.225 | 7.461 | 4.206 | 3.955 | 9.545 | 25.392 | |
| 1978 | TOTAL | 0.239 | 7.624 | 4.070 | 4:116 | 10,060 | 26.108 | |
| 1979 | TOTAL | 0.210 | 7.891 | 3.448 | 4.184 | 10.064 | 25.796 | |
| 1980 | TOTAL | 0.160 | 7.539 | 3.035 | 4.355 | 10.578 | 25.666 | |
| 1981 | January | 0.022 | 1.268 | 0.437 | 0.425 | 1.002 | 3.154 | 3.154 |
| | February | 0.018 | 1.122 | 0.293 | √0.391 | 0.816 | 2.640 | 5.794 |
| | March | 0.012 | 0.911 | 0.202 | 0.355 | 0.836 | 2.316 | 8.110 |
| | April | 0.014 | 0.590 | . 0.148 | 0.325 | 0.756 | 1.833 | 9.943 |
| | May | 0.012 | 0.421 | 0.155 | 0.321 | 0.796 | 1.705 | 11.648 |
| | June | 0.008 | | 0.148 | 0.365 | · 0.947 | 1.758 | 13.406 |
| | July | 0.011 | 0.241 | 0.138 | 0.429 | 1.081 | 1.900 | 15.306 |
| | August | . 0.011 | 0.236 | 0.149 | 0.431 | 1.019 | 1.845 | 17.152 |
| | September | 0.015 | 0:246 | 0.153 | 0.392 | 0.850 | 1.656 | 18.808 |
| | October | 0.016 | 0.390 | 0.249 | 0.348 | 0.807 | 1.809 | 20.617 |
| | November | 0.021 | 0.583 | 0.257 | 0.336 | 0.790 | 1.988 | 22.605 |
| | December | 0.026 | 0.942 | 0.306 | 0.380 | 0.954 | 2.608 | 25.213 |
| • | TOTAL | 0.186 | 7.242 | 2.635 | 4.497 | 10.653 | 25.213 | • |
| 1982 | January | 0.025 | 1.358 | 0.367 | 0.439 | 1.077 | 3.266 | 3.266 |
| | February | 0.017 | 1.235 | 0.273 | 0.408 | 0.869 | 2.803 | 6.069 |
| | March | 0.014 | 0.955 | 0.206 | 0.372 | 0.884 | 2.431 | 8.500 |
| | April | 0.018 | 0.715 | 0.173 | 0.346 | 0.797 | 2.048 | 10.548 |
| | May | 0.012 | 0.385 | 0.161 | R0.326 | 0.819 | R1.704 | R12.252 |
| | June | 0.009 | 0.284 | 0.146 | 0.358 | 0.888 | 1.684 | R13.936 |
| | July | 0.016 | 0.250 | 0.131 | 0.412 | 1.082 | 1.891 | 15.828 |
| | August September | 0.017 0.016 | 0.239 0.248 | 0.142 | 0.431 | 1.042 | 1.870 | ` R17.697 |
| | October | 0.016 | 0.246 | 0.153 0.232 | 0.403 | 0.891 | 1.710 | R19.407 |
| | November | 0.010 | 0.607 | 0.232 | 0.349 0.340 | 0.817 | 1.760 2.023 | R21.167 |
| | December | 0.025 | 0.875 | 0.232 | 0.340 | 0.824 0.933 | 2.484 | R23.190 25.675 |
| | TOTAL | 0.206 | 7.498 | 2.486 | R4.563 | 10.922 | 25.675 | 25.075 |
| 1983 | January | 0.025 | 1.080 | 0.310 | 0.413 | 1.001 | 2.829 | 2.829 |
| | February | 0.016 | 1.048 | 0.238 | 0.390 | 0.826 | 2.518 | 5.348 |
| | March | 0.014 | 0.820 | 0.192 | 0.366 | 0.882 | 2.274 | 7.621 |
| | April | 0.014 | 0.697 | 0.151 | 0.352 | 0.799 | 2.013 | 9.634 |
| | May | 0.012 | 0.426 | 0.145 | 0.327 | 0.811 | 1.722 | 11.356 |

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 of Energy by the Industrial Sector

| , | , | Coal | Natural Gas (Dry) | Petro- leum | Hydro- electric | Net Coke Imports | Electricity Sales | Electrical Energy Losses | Total Energy Consumed | Yearly Cumulative Energy Consumed |
|------|----------------------|----------------|-------------------------|----------------|--------------------|------------------------|-----------------------|--------------------------------|-----------------------------|--|
| | | | | | Q | uadrillion (10 |) ¹⁵) Btu | | | |
| 1973 | TOTAL | 4.349 | 10.388 | 9.132 | 0.035 | (0.008) | 2.341 | 5.610 | 31.846 | |
| 1974 | TOTAL | 4.048 | 10.003 | 8.720 | 0.033 | 0.059 | 2.337 | 5.700 | 30.900 | |
| 1975 | TOTAL | 3.797 | 8.532 | 8.182 | 0.032 | 0.014 | 2.346 | 5.665 | 28.569 | |
| 1976 | TOTAL | 3.786 | 8.761 | 9.043 | 0.033 | 0.000 | 2.573 | 6.197 | 30.393 | |
| 1977 | TOTAL | 3.498 | 8.636 | 9.809 | 0.033 | 0.015 | 2.682 | 6.476 | 31.149 | |
| 1978 | TOTAL | 3.372 | 8.539 | 9.905 | 0.032 | 0.131 | 2.761 | 6.755 | 31.493 | |
| 1979 | TOTAL | 3.636 | 8.549 | 10.582 | 0.034 | 0.066 | 2.873 | 6.912 | 32.652 | |
| 1980 | TOTAL | 3.181 | 8.394 | 9.535 | 0.033 | (0.037) | 2.781 | 6.751 | 30.638 | |
| 1981 | January . | 0.299 | 0.754 | 0.823 | 0.003 | 0.000 | 0.229 | 0.539 | 2.647 | 2.647 |
| | February | 0.277 | 0.525 | 0.707 | 0.003 | (0.001) | 0.230 | 0.480 | 2.221 | 4.868 |
| | March | 0.279 | 0.691 | 0.754 | 0.003 | (0.003) | 0.234 | 0.552 | 2.511 | 7.379 |
| | April | 0.260 | 0.589 | 0.654 | 0.003 | (0.001) | 0.232 | 0.542 | 2.279 | 9.659 |
| | Мау | 0.239 | 0.668 | 0.700 | 0.003 | 0.000 | 0.234 | 0.580 | 2.425 | 12.084 |
| | June | 0.232 | 0.616 | 0.665 | 0.003 | (0.004) | 0.244 | 0.635 | 2.392 | 14.476 |
| | July | 0.270 | 0.641 | 0.644 | 0.003 | 0.000 | 0.245 | 0.616 | 2.419 | 16.894 |
| | August | 0.273 | 0.668 | 0.651 | 0.002 | 0.000 | 0.246 | 0.581 | 2.422 | 19.316 |
| | September | 0.266 | 0.676 | 0.684 | 0.002 | (0.002) | 0.242 | 0.525 | 2.393 | 21.709 |
| | October | 0.268 | 0.806 | 0.666 | 0.002 | (0.003) | 0.236 | 0.548 | 2.523 | 24.232 |
| | November | 0.270 | 0.756 | 0.634 | 0.002 | 0.000 | 0.226 | 0.530 | 2.418 | 26.650 |
| | December | 0.271 | 0.871 | 0.725 | 0.002 | (0.003) | 0.219 | 0.549 | 2.634 | 29.285 |
| | TOTAL | 3.205 | 8.260 | 8.308 | 0.033 | (0.017) | 2.817 | 6.677 | 29.285 | · |
| 1982 | January | 0.271 | R0.739 | 0.706 | 0.003 | 0.000 | 0.215 | 0.527 | R2.461 | R2.461 |
| | February | 0.254 | R0.480 | 0.639 | 0.003 | (0.001) | 0.214 | 0.456 | R2.044 | 4.505 |
| | March | 0.244 | 0.591 | 0.721 | 0.003 | (0.002) | 0.220 | 0.523 | 2.300 | 6.804 |
| | April | 0.227 | R0.488 | 0.668 | 0.003 | (0.001) | 0.214 | 0.493 | R2.091 | R8.895 |
| | May | 0.219 | R0.476 | 0.635 | 0.003 | (0.003) | 0.213 | R0.535 | R2.078 | R10.974 |
| | June | 0.204 | R0.518 | 0.625 | 0.003 | (0.004) | 0.217 | 0.539 | R2.103 | R13.077 |
| | July | 0.198 | R0.524 | 0.639 | 0.003 | (0.003) | 0.214 | 0.562 | R2.136 | R15.213 |
| | August | 0.200 | R0.529 | 0.671 | 0.002 | (0.001) | 0.216 | 0.523 | R2.139 | R17.352 |
| | September October | 0.192 0.201 | R0.577 | 0.667 | 0.002 | (0.003) | 0.205 | 0.453 | R2.092 | R19.444 |
| | November | 0.201 | R0.662 R0.685 | 0.642 | 0.002 | (0.001) | 0.208 | 0.486 | R2.198 | R21.642 |
| | December | 0.204 | R0.604 | 0.605 0.690 | 0.002 | (0.002) | 0.207 | 0.502 | R2.204 | R23.846 |
| | TOTAL | | | | 0.002 | (0.001) | 0.199 | 0.489 | R2.192 | R26.038 |
| 1000 | | 2.621 | R6.872 | 7.907 | 0.033 | (0.023) | 2.542 | 6.086 | R26.038 | |
| 1983 | January | 0.219 | R0.671 | 0.656 | 0.003 | (0.001) | 0.198 | 0.480 | R2.225 | R2.225 |
| | February | 0.203 | R0.415 | 0.594 | 0.003 | (0.001) | 0.202 | 0.427 | R1.843 | R4.068 |
| | March | 0.194 | R0.566 | 0.691 | 0.003 | (0.001) | 0.206 | 0.496 | R2.155 | R6.223 |
| | April May | 0.226 | R0.493 | 0.619 | 0.003 | (0.002) | 0.207 | 0.470 | R2.015 | R8.238 |
| | May | 0.216 | 0.525 | 0.607 | 0.003 | (0.002) | 0.214 | 0.530 | 2.093 | 10.331 |

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 of Energy by the Transportation Sector

| | | Coal | Natural Gas (Dry) | Petroleum | Electricity Sales | Electrical Energy Losses | Total Energy Consumed | Yearly Cumulative Energy Consumed | | |
|------|---|---|--|--|--|--|--|--|--|--|
| | | Quadrillion (1015) Btu | | | | | | | | |
| 1973 | TOTAL | 0.003 | 0.743 | 17.803 | 0.009 | 0.020 | 18.577 | | | |
| 1974 | TOTAL | 0.002 | 0.685 | 17.374 | 0.009 | 0.022 | 18.091 | | | |
| 1975 | TOTAL | 0.001 | 0.595 | 17.579 | 0.010 | 0.025 | 18.209 | | | |
| 1976 | TOTAL | (1) | 0.559 | 18.473 | 0.010 | 0.025 | 19.068 | | | |
| 1977 | TOTAL | (1) | 0.543 | 19.207 | 0.010 | 0.025 | 19.785 | | | |
| 1978 | TOTAL | (1) | 0.539 | 20.004 | 0.009 | 0.022 | 20.574 | | | |
| 1979 | TOTAL | (1) | 0.612 | 19.810 | 0.010 | 0.025 | 20.457 | | | |
| 1980 | TOTAL | (1) | 0.648 | 18.999 | 0.011 | 0.026 | 19.683 | | | |
| 1981 | January February March April May June July | (°) (°) (°) (°) (°) (°) | 0.077 0.065 0.065 0.050 0.048 0.044 0.045 | 1.577 1.403 1.547 1.546 1.582 1.614 1.652 | 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | 0.002 0.002 0.002 0.002 0.002 0.002 0.002 | 1.657 1.471 1.614 1.599 1.633 1.662 1.700 | 1.657 3.128 4.742 6.342 7.974 9.636 11.337 | | |
| | August September October November December TOTAL | (°) (°) (°) (°) (°) | 0.044 0.043 0.051 0.055 0.071 0.658 | 1.607 1.557 1.586 1.512 1.603 | 0.001 0.001 0.001 0.001 0.001 | 0.002 0.002 0.002 0.002 0.002 0.026 | 1.654 1.603 1.640 1.571 1.677 19.481 | 12.991 14.593 16.233 17.804 19.481 | | |
| 1982 | January February March April May June July August September October November December | () () () () () () () () () () () () () (| 0.080 0.067 0.062 0.050 0.039 0.038 0.039 0.039 0.039 0.044 0.052 0.058 | 1.428 1.367 1.558 1.663 1.605 1.570 1.589 1.568 1.526 1.530 1.516 1.536 | 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | 0.003 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 | 1.512 1.436 1.622 1.716 1.647 1.611 1.631 1.610 1.568 1.577 1.571 1.597 | 1.512 2.948 4.571 6.287 7.934 9.545 11.176 12.786 14.354 15.931 17.502 19.100 | | |
| 1983 | January February March April May | (1) (1) (1) (1) | R0.068 R0.056 R0.054 R0.048 0.040 | 1.390 1.287 1.599 1.536 1.558 | 0.001 0.001 0.001 0.001 0.001 | 0.002 0.002 0.002 0.002 0.002 | R1.460 R1.346 R1.656 R1.586 1.600 | R1.460 2.807 R4.463 R6.049 7.650 | | |

^{&#}x27;Since 1976, the amount of coal consumed by the transportation sector has been negligible. 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.

Energy Input at Electric Utilities

| | - | Coal | Natural Gas (Dry) | Petro- leum¹ | Hydro- electric power² | Nuclear Electric Power | Other ³ | Total Energy Input | Yearly Cumulative Energy Input | | | |
|------|-----------|--------|-------------------------|-----------------|------------------------------|------------------------------|--------------------|--------------------------|---|--|--|--|
| | | | Quadrillion (1018) Btu | | | | | | | | | |
| 1973 | TOTAL | 8.658 | 3.748 | 3.515 | 2.975 | 0.910 | 0.046 | 19.852 | | | | |
| 1974 | TOTAL | 8.535 | 3.519 | 3.365 | 3.276 | 1.272 | 0.056 | 20.023 | | | | |
| 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 | 21.573 | | | | |
| 1977 | TOTAL | 10.243 | 3.284 | 3.901 | 2.482 | 2.702 | 0.082 | 22.694 | | | | |
| 1978 | TOTAL | 10.236 | 3.297 | 3.987 | 3.110 | 3.024 | 0.068 | 23.722 | | | | |
| 1979 | TOTAL | 11.264 | 3.609 | 3.283 | 3.107 | 2.715 | 0.089 | 24.068 | | | | |
| 1980 | TOTAL | 12.122 | 3.807 | 2.634 | 3.085 | 2.739 | 0.114 | 24.501 | | | | |
| 1981 | January | 1.153 | 0.239 | 0.275 | 0.260 | 0.259 | 0.011 | 2.198 | 2.198 | | | |
| | February | 1.010 | 0.232 | 0.188 | 0.244 | 0.236 | 0.010 | 1.919 | 4.117 | | | |
| | March | 1.020 | 0.283 | 0.184 | 0.241 | 0.240 | 0.011 | 1.979 | 6.097 | | | |
| | April | 0.921 | 0.299 | 0.160 | 0.242 | 0.225 | 0.010 | 1.858 | 7.955 | | | |
| | May | 0.949 | 0.327 | 0.156 | 0.278 | 0.215 | 0.010 | 1.935 | 9.890 | | | |
| | June | 1.056 | 0.394 | 0.203 | 0.301 | 0.231 | 0.010 | 2.194 | 12.084 | | | |
| | July | 1.184 | 0.425 | 0.214 | 0.289 | 0.252 | 0.011 | 2.374 | 14.458 | | | |
| | August | 1.149 | 0.403 | 0.171 | 0.252 | 0.294 | 0.011 | 2.279 | 16.737 | | | |
| | September | 1.022 | 0.336 | 0.165 | 0.212 | 0.266 | 0.011 | 2.012 | 18.750 | | | |
| | October | 1.008 | 0.312 | 0.171 | 0.216 | 0.224 | 0.011 | 1.941 | 20.691 | | | |
| | November | 0.991 | 0.268 | 0.146 | 0.224 | 0.249 | 0.010 | 1.886 | 22.577 | | | |
| | December | 1.120 | 0.248 | 0.169 | 0.276 | 0.284 | 0.010 | 2.105 | 24.682 | | | |
| | TOTAL | 12.583 | 3.764 | 2.202 | 3.033 | 2.974 | 0.127 | 24.682 | | | | |
| 1982 | January | 1.198 | 0.246 | 0.221 | 0.307 | 0.280 | 0.009 | 2.261 | 2.261 | | | |
| | February | 1.031 | 0.228 | 0.162 | 0.302 | 0.220 | 0.008 | 1.950 | 4.211 | | | |
| | March | 1.010 | 0.255 | 0.144 | 0.338 | 0.248 | 0.007 | 2.001 | 6.213 | | | |
| | April | 0.917 | 0.255 | 0.120 | 0.317 | 0.238 | 0.007 | 1.853 | 8.065 | | | |
| | Мау | 0.962 | 0.267 | 0.106 | 0.318 | 0.236 | 0.008 | 1.897 | 9.962 | | | |
| | June | 1.000 | 0.306 | 0.111 | 0.317 | 0.262 | 0.010 | 2.005 | 11.967 | | | |
| | July | 1.165 | 0.365 | 0.144 | 0.311 | 0.278 | 0.010 | 2.273 | 14.240 | | | |
| | August | 1.156 | 0.374 | 0.125 | 0.276 | 0.273 | 0.010 | 2.214 | 16.453 | | | |
| | September | 1.021 | 0.303 | 0.110 | 0.233 | 0.277 | 0.010 | 1.954 | 18.407 | | | |
| | October | 0.977 | 0.282 | 0.106 | 0.233 | 0.254 | 0.011 | 1.862 | 20.270 | | | |
| | November | 1.008 | 0.234 | 0.100 | 0.269 | 0.253 | 0.011 | 1.875 | 22.145 | | | |
| | December | 1.073 | 0.222 | 0.120 | 0.316 | 0.266 | 0.009 | 2.006 | 24.151 | | | |
| | TOTAL | 12.517 | 3.335 | 1.568 | 3.538 | 3.084 | 0.108 | 24.151 | | | | |
| 1983 | January | 1.125 | 0.215 | 0.137 | 0.332 | 0.274 | 0.011 | 2.094 | 2.094 | | | |
| | February | 0.965 | 0.183 | 0.134 | 0.315 | 0.242 | 0.008 | 1.848 | 3.942 | | | |
| | March | 0.992 | 0.215 | 0.133 | 0.342 | 0.261 | 0.010 | 1.952 | 5.895 | | | |
| | April | 0.919 | 0.210 | 0.110 | 0.338 | 0.244 | 0.009 | 1.830 | 7.725 | | | |
| | Мау | 0.963 | 0.226 | 0.097 | 0.352 | 0.241 | 0.007 | 1.885 | 9.610 | | | |

Includes 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.

Includes net imports of electricity.

Includes geothermal power and electricity produced from wood and waste.

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. End-Use Sectors: Energy use is assigned to the major end-use sectors according to the following guidelines as closely as possible:
 - Residential and commercial sector—Energy consumed by private household establishments primarily for space heating, water heating, air conditioning, cooking, and clothes drying; by non-manufacturing business establishments, including motels, restaurants, wholesale businesses, retail stores, laundries, and other service enterprises; by health, social, and educational institutions; and by Federal, State, and local governments.

Industrial sector-Energy consumed by manufacturing, construction, mining, agriculture, fishing, and forestry establishments.

Transportation sector-Energy consumed to move people and commodities in both the public and private sectors, including military, railroad, vessel bunkering, and marine uses, as well as the pipeline transmission of

natural gas.
Electric utility sector—Energy consumed by privately- and publicly-owned establishments that generate electricity primarily for resale.

2. Conversion Factors: See the inside back cover of this publication for factors applied in converting physical unit data into British thermal units (Btu).

3. Coal: Coal is anthracite, bituminous coal, and lignite.

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

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."

4. Natural Gas: Total natural gas consumption is estimated monthly based on a supply disposition balance calculation. Residential and commercial sector monthly consumption is estimated by allocating the EIA annual residential and commercial sector consumption to the months in proportion to the American Gas Association (AGA) monthly sales to the residential and commercial sector. For current incomplete years, the AGA monthly sales data are used temporarily. Monthly transportation consumption (which is natural gas for pipeline use) for complete years is estimated by allocating the EIA annual transportation total to the months based on each month's total natural gas consumption as a share of the annual total natural gas consumption. For the current incomplete year, each month's transportation total is estimated by applying the percentage of total natural gas accounted for by the transportation sector in the same month a year ago to the current month's total natural gas consumption. Floating utilities consumption of satural gas is available monthly from EIA Form 750 (formative EIA Form 750). natural gas accounted for by the transportation sector in the same month a year ago to the current month's total natural gas consumption. Electric utilities consumption of natural gas is available monthly from EIA Form 759 (formerly FPC Form 4), "Monthly Power Plant Report." Each month's industrial sector consumption is estimated by subtracting the residential and commercial, transportation, and electric utilities sectors consumption from the total natural gas consumption.

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 and 1981: EIA, Natural Gas Annual.

1982 forward: EIA, Natural Gas Monthly.

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." "Monthly Power Plant Report.

1982 forward: EIA, EIA Form 759, "Monthly Power Plant Report."

- American Gas Association, "Monthly Gas Utility Statistical Report."
- 5. **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 the Part 3. Petroleum section.

Sources for petroleum products supplied by individual products are:

1973 through 1975: DOI, BOM, Mineral Industry Surveys, "Petroleum Statement, Annual."

1981: EIA, Petroleum Supply Annual.

1982 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. 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 kerosene deliveries) 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." Plant Report."

Notes and Sources for the Consumption Section (continued)

Nonutility Sectors, Annual Estimates.

The aggregate nonutility use of distillate fuel is total distillate fuel supplied minus the electric utility consumption. The nonutility annual totals are allocated into the individual nonutility 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" reports (based primarily on data collected by Form EIA-172) as follows:

- Residential sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981. Deliveries for 1981 are used as estimates for 1982. Prior to 1979, each year's subtotal of the heating plus industrial contents.

industrial category deliveries is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;

Commercial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981. Deliveries for 1981 are used as estimates for 1982. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;

Industrial sector deliveries for 1979 through 1981 are the sum of deliveries for industrial, farm, oil company, off-highway, diesel, and all other uses. Deliveries for 1981 are used as estimates for 1982. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into residential, Prior to 1979, each year's subtotal of the heating plus industrial category deliveries 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. Deliveries for 1981 are used as estimates for 1982.

Nonutility Sectors, Monthly Estimates Through 1981.

Residential and commercial sector monthly consumption is estimated by allocating the annual sector estimates to months in proportion to each month's phase of the year's sples of No. 2 hosting ellege.

- estimates to months in proportion to each month's share of the year's sales of No. 2 heating oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation from 1973 through 1980 and the American Petroleum Institute since January 1981.
- The transportation sector highway use portion is allocated into the months in proportion to each month's share of the year's total sales for highway use as reported by the Federal Highway Administration's Table MF-25, "Private and Commercial Highway Use of Special Fuels by Months." The remaining transportation use of distillate fuel (i.e., for railroads, vessel bunkering, and military use) is evenly distributed over the months, adjusted for the number of days per month.
- Industrial sector monthly estimates are made by subtracting the residential and commercial, transportation, and electric utility sector estimates from each month's total distillate fuel supplied. **Nonutility Sectors, 1982 Forward.**

Each month's nonutility consumption subtotal is disaggregated into the major end-use sectors in proportion to the shares each sector held of the nonutility subtotal in the same month in 1981.

- Jet Fuel—Small amounts in 1975 through 1977 are used by the industrial sector, and small amounts in all
 periods are consumed by the electric utility sector. All remaining jet fuel is consumed by the transportation
- 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" reports (based primarily on data collected by Form EIA-172) as follows:
- Residential sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981. Deliveries for 1981 are used as estimates for 1982 forward. Prior to 1979, each year's category called "heating" is split
- for 1981 are used as estimates for 1982 forward. Prior to 1979, each year's category called "leading is spire into residential, commercial, and industrial in proportion to the 1979 shares; Commercial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981. Deliveries for 1981 are used as estimates for 1982 forward. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares; and Industrial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981. Deliveries for 1981 are used as estimates for 1982 forward. Prior to 1979, each year's category called "heating" is split into residential commercial, and industrial in proportion to the 1979 shares; and this estimated industrial in proportion to the 1979 shares and this estimated industrial in proportion to the 1979 shares. into residential, commercial, and industrial in proportion to the 1979 shares, and this estimated industrial (including farm) portion is added to all other uses.

Liquefied Petroleum Gases (LPG)

- 1973 through 1981: 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 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 equal the annual consumption of LPG by the sector; Sixteen percent of LPG sales for internal combustion engine use is estimated to be for transportation end-use; this estimated portion is converted from thousand gallons per year to thousand barrels per year and assumed to equal the annual consumption of LPG by the transportation sector; and
 - 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 source of the sales data is ElA's "Sales of Liquefied Petroleum Gases and Ethane" reports, based primarily on data collected by Form EIA-174.

- 1982 forward: The 1981 annual end-use shares are applied for succeeding periods to estimate the amount of the total LPG supplied that is consumed by each major end-use sector.
- **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 (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
- **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 portion 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 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."

Nonutility Sectors, Annual Estimates.

The aggregate populities use of residual fuel is total residual fuel supplied minus the electric utility.

- The aggregate nonutility use of residual fuel is total residual fuel supplied minus the electric utility consumption. The nonutility annual totals are allocated into the individual nonutility 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" reports (based primarily on data collected by Form EIA-172) as follows:

 Commercial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981.

 Deliveries for 1981 are used as estimates for 1982. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into commercial and industrial in proportion to the 1979 shares;
- Industrial sector deliveries for 1979 through 1981 are the sum of deliveries for industrial, oil company, and all other uses. Deliveries for 1981 are used as estimates for 1982. Prior to 1979, each year's subtotal of the sum of the the heating plus industrial category deliveries 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. Deliveries for 1981 are used as estimates for 1982.

- Nonutility Sectors, Monthly Estimates Through 1981.

- Commercial sector monthly consumption is estimated by allocating the annual commercial sector estimates to months in proportion to each month's share of the year's sales of No. 2 heating oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation for 1973 through 1980 and the American Petroleum Institute since January 1981.
- Transportation sector monthly estimates are made by evenly distributing the annual sector estimate over the months, adjusted for the number of days per month.
- Industrial sector monthly estimates are made by subtracting the commercial, transportation, and electric utility sector estimates from each month's total residual fuel supplied.

Nonutility Sectors, 1982 Forward.

Each month's nonutility consumption subtotal is disaggregated into the major end-use sectors in proportion to the shares each sector held of the nonutility subtotal in the same month in 1981.

- 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.
- 6. Hydroelectric: Includes electricity generated by hydropower at electric utilities, small amounts in the industrial sector, and net imports of electricity, which are assumed to be generated by hydropower 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

Sources for imports and exports of electricity

- 1973 through 1980 annual: DOE, Economic Regulatory Administration, "Report on Electric Energy Exchanges with Canada and Mexico.
- 1981 annual: DOE, Office of Energy Emergency Operations, "Report on Electric Energy Exchanges with Canada and Mexico for Calendar Year 1981," April 1982 (revised June 1982).

 1981 monthly: Estimates are derived from annual data by dividing by the number of days in the year and multiplying by the number of days in the month.

 1982 forward: EIA estimates.

Notes and Sources for the Consumption Section (continued)

7. Nuclear:

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."

- 8. Net Coke Imports: This is coke made from coal. 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 forward: EIA, Energy Data Report, "Coke Plant Report," quarterly/annual.

- 9. Other Energy: "Other" is electricity produced from geothermal power and from wood and waste. Sources: same as Note 7 above, for Nuclear.
- 10. Electricity Sales: From the sources cited below the following 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. Sales of electricity are converted into Btu at the rate of 3,412 Btu per kilowatt-hour.

 - 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 Energy Losses: Total electrical energy losses (i.e., incurred in the generation and transmission of electricity plus plant use and unaccounted for) are estimated as the difference between total energy input at utilities and electricity sold to the end-users. Total losses are disaggregated to the end-use sectors in proportion to each sector's share of total electricity sales. In general, about 65 percent of total energy input at utilities is lost in the form of heat, and an additional 3 percent is lost in the transmission and distribution of the electricity to the end-user.

Part 3

Crude Oil and Refined Petroleum Products*

Domestic crude oil production during June 1983 was estimated to be 8.7 million barrels per day, slightly less than the rate in May 1983 but 0.3 percent above the rate in June 1982.

Total petroleum imports averaged 5.1 million barrels per day in June 1983, 4.1 percent more than the May 1983 rate but 4.3 percent less than the June 1982 rate.

In June 1983, 15.2 million barrels per day of petroleum products were supplied for domestic use, 6.7 percent above the level in May 1983 and 1.4 percent above the level of the previous June. Motor gasoline accounted for 45.5 percent of the total; distillate fuel oil, 16.6 percent; and residual fuel oil, 8.3 percent.

Motor gasoline supplied during June 1983 averaged 6.9 million barrels per day, 5.9 percent above the rate in May 1983 and 1.3

percent above the level of the previous June. Stocks of motor gasoline totaled 222 million barrels at the end of June 1983, 3 million barrels below the inventories reported at the end of May 1983.

In June 1983, 2.5 million barrels of distillate fuel oil were supplied per day, 7.9 percent higher than the May 1983 rate and 3.1 percent higher than the June 1982 level. Distillate fuel oil stocks were 112 million barrels at the end of June 1983, 3 million barrels above the level at the end of the previous month.

Residual fuel oil supplied in June 1983 averaged 1.3 million barrels per day, 3.3 percent lower than in May 1983 and 15.6 percent lower than the June 1982 rate. Residual fuel oil stocks measured 49 million barrels at the end of June 1983, 2 million barrels below the stock level at the end of May 1983.

etroleum

^{*}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 March 1983. The total import data above include imports into the Strategic Petroleum Reserve.

Crude Oil1 and Petroleum Products Overview

| | | Fie | eld Produc | tion | Stock 1 | Withdrawal ² | | Ending Stocks ³ | |
|------|---|---|--|--|--|--|---|--|--|
| | | Total Domestic | Crude Oil | Natural Gas Plant Production | Crude Oil ^s | Petroleum Products | Petroleum Products Supplied | Crude Oils and Petroleum Products | |
| | | | | Thousand I | barrels per d | lay | | Million barrels | |
| 1973 | AVERAGE | 10,975 | 9,208 | 1,738 | 11 - | -146 | 17,308 | 1,008 | |
| 1974 | AVERAGE | 10,498 | 8,774 | 1,688 | -62 | -117 | 16,653 | 1,074 | |
| 1975 | AVERAGE | 10,045 | 8,375 | 1,633 | -17 | -145 | 16,322 | 1,133 | |
| 1976 | AVERAGE | 9,774 | 8,132 | 1,603 | -39 | 96 | 17,461 | 1,112 | |
| 1977 | AVERAGE | 9,913 | 8,245 | 1,618 | -170 | -378 | 18,431 | 1,312 | |
| 1978 | AVERAGE | 10,328 | 8,707 | 1,567 | -78 | 172 | 18,847 | 1,278 | |
| 1979 | AVERAGE | 10,179 | 8,552 | 1,584 | -148 | -25 | 18,513 | 1,341 | |
| 1980 | AVERAGE | 10,214 | 8,597 | 1,573 | -98 | -42 | 17,056 | 1,392 | |
| 1981 | January February March April May June July August September October | 10,231 10,294 10,272 10,195 10,160 10,287 10,098 10,243 10,281 10,225 | 8,540 8,604 8,613 8,557 8,501 8,629 8,500 8,583 8,604 8,563 | 1,652 1,653 1,624 1,599 1,593 1,594 1,548 1,614 1,612 1,598 | 50 -278 -632 -595 -391 -135 -360 397 -285 -760 | 1,159 250 224 148 -374 406 91 -999 -341 | 18,430 16,989 15,907 15,350 15,353 16,095 15,682 15,263 15,655 15,822 | 1,388 1,389 1,401 1,415 1,438 1,430 1,439 1,457 1,457 1,476 | |
| | November December AVERAGE | 10,269 10,220 10,230 | 8,586 8,585 8,572 | 1,630 1,590 1,609 | -325 -170 -290 | -233 745 130 | 15,593 16,596 16,058 | 1,501 1,484 | |
| 1982 | January February March April May June July August September October November December AVERAGE | 10,128 10,312 10,284 10,188 10,244 10,212 10,229 10,215 10,279 10,299 10,359 10,276 10,252 | 8,509 8,702 8,667 8,591 8,683 8,646 8,658 8,634 8,701 8,701 8,697 8,598 | 1,578 1,563 1,572 1,542 1,518 1,511 1,513 1,524 1,518 1,530 1,609 1,628 1,550 | -401 -242 121 -37 29 40 -147 -440 263 -548 -398 128 -136 | 1,298 1,230 1,047 1,583 -66 -489 -926 -44 -447 -47 -361 688 283 | 16,124 16,001 15,560 16,046 14,847 14,998 14,821 14,839 15,022 14,859 15,009 15,487 15,296 | 1,456 1,428 1,392 1,346 1,347 1,360 1,393 1,408 1,414 1,432 1,455 1,430 | |
| 1983 | January February March April May June† AVERAGE | 10,356 10,298 10,259 10,229 10,231 NA | 8,634 8,660 8,677 8,686 8,682 8,676 8,669 | 1,668 1,585 1,544 1,502 1,483 NA | -567 -382 56 -438 R68 <i>-74</i> | 865 1,128 R1,765 431 R-759 -316 514 | 14,765 14,772 15,484 14,779 R14,250 <i>15,210</i> | 1,453 1,432 1,375 1,376 R1,397 <i>1,400</i> | |

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.

^{*}Stocks are totals as of end of period.
*Includes crude oil, natural gas plant production, other hydrocarbons, and alcohol.
*Includes stocks located in the Strategic Petroleum Reserve.
†Italics denote 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.
• In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974—1,121; 1980—1,420; and 1982—1,462. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.
Sources: • See the last page of this section.

Sources: • See the last page of this section.

Petroleum

Crude Oil¹ and Petroleum Products Overview (continued)

| | | | Imports | | Exports | | | | |
|------|---|--|--|---|--|---|--|--|--|
| • | | Total | Crude Oil ² | Petroleum Products | Total | Crude Oil | Petroleum Products | Net Imports ³ | |
| | | | | The | ousand barrels | s per day | | | |
| 1973 | AVERAGE | 6,256 | 3,244 | 3,012 | 231 | 2 | 229 | 6,025 | |
| 1974 | AVERAGE | 6,112 | 3,477 | 2,635 | 221 | 3 | 218 | 5,892 | |
| 1975 | AVERAGE | 6,056 | 4,105 | 1,951 | 209 | 6 | 204 | 5,846 | |
| 1976 | AVERAGE | 7,313 | 5,287 | 2,026 | 223 | 8 | 215 | 7,090 | |
| 1977 | AVERAGE | 8,807 | 6,615 | 2,193 | 243 | 50 | 193 | 8,565 | |
| 1978 | AVERAGE | 8,363 | 6,356 | 2,008 | 362 | 158 | 204 | 8,002 | |
| 1979 | AVERAGE | 8,456 | 6,519 | 1,937 | 471 | 235 | 236 | 7,985 | |
| 1980 | AVERAGE | 6,909 | 5,263 | 1,646 | 544 | 287 | 258 | 6,365 | |
| 1981 | January February March April May June July August September October November December AVERAGE | 6,827 6,772 6,028 5,668 5,775 5,435 5,816 5,767 6,365 5,959 5,741 5,843 5,996 | 4,932 4,873 4,521 4,338 4,287 4,061 4,296 4,179 4,740 4,380 4,046 4,137 4,396 | 1,895 1,899 1,507 1,330 1,489 1,375 1,521 1,588 1,624 1,579 1,695 1,706 1,599 | 558 569 586 570 595 420 571 644 519 738 701 656 | 339 198 210 198 312 123 257 204 194 226 278 189 228 | 219 371 376 372 283 297 314 440 325 512 423 467 367 | 6,270 6,203 5,442 5,098 5,180 5,015 5,245 5,123 5,845 5,221 5,041 5,187 5,401 | |
| 1982 | January February March April May June July August September October November December AVERAGE | 5,332 4,807 4,484 4,378 4,811 5,327 5,890 5,244 5,414 5,306 5,744 4,606 5,113 | 3,693 2,990 2,874 2,849 3,309 3,836 4,248 3,851 3,636 3,670 3,862 3,000 3,488 | 1,639 1,817 1,610 1,529 1,503 1,491 1,642 1,392 1,778 1,636 1,882 1,605 1,625 | 829 804 882 786 803 703 741 858 791 932 786 860 815 | 238 304 321 174 262 94 229 304 184 270 262 193 236 | 591 499 561 611 542 609 512 554 606 662 524 667 579 | 4,503 4,003 3,602 3,593 4,008 4,624 5,149 4,386 4,624 4,374 4,958 3,746 4,298 | |
| 1983 | January February March April May June† AVERAGE | 4,372 3,691 3,629 4,744 R4,898 <i>5,100</i> 4,412 | 2,938 2,268 2,232 3,154 R3,234 <i>3,445</i> 2,884 | 1,434 1,423 1,398 1,590 R1,664 <i>1,655</i> 1,528 | 973 865 801 809 848 NA | 117 262 174 88 280 NA | 856 603 627 721 568 NA | 3,399 2,825 2,829 3,935 4,049 NA | |

¹Includes lease condensate.
²Includes crude oil for storage in the Strategic Petroleum Reserve.
³Net imports equals imports minus exports.
†Italics denote 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.

Crude Oil¹ Supply and Disposition

| Su | p | ρl | ٧ |
|----|---|----|---|
| | | | |

| | | | | | | Cuppiy | | | |
|------|----------------|-------------------|----------|--------|------------------|------------------|------------------|-------------------------|---------------------------------|
| | | Field Pro | oduction | | Imports | | Stock W | /ithdrawal ² | I I no no no material |
| | | Total Domestic | Alaskan | Total | SPR ³ | Other | SPR ³ | Other | Unaccounted for Crude Oil |
| | | | | | Thousar | nd barrels per o | 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 | January | 8,540 | 1,606 | 4,932 | 106 | 4.826 | -151 | 201 | 113 |
| | February | 8,604 | 1,619 | 4,873 | 80 | 4,793 | -127 | -150 | -41 |
| | March | 8,613 | 1,618 | 4,521 | 140 | 4,382 | -155 | -477 | 154 |
| | April | 8,557 | 1,608 | 4,338 | 272 | 4,066 | -444 | -151 | 51 |
| | May | 8,501 | 1,580 | 4,287 | 386 | 3,901 | -513 | 122 | 286 |
| | June | 8,629 | 1,632 | 4,061 | 318 | 3,743 | -434 | 299 | 49 |
| | July | 8,500 | • | | 175 | • | | | |
| | • | | 1,605 | 4,296 | | 4,121 | -324 | -36 | 147 |
| | August | 8,583 | 1,602 | 4,179 | 257 | 3,922 | -372 | 769 | 16 |
| | September | 8,604 | 1,607 | 4,740 | 435 | 4,305 | -486 | 201 | -295 |
| | October | 8,563 | 1,596 | 4,380 | 453 | 3,927 | -501 | -259 | 166 |
| | November | 8,586 | 1,614 | 4,046 | 271 | 3,774 | -259 | -66 | 279 |
| | December | 8,585 | 1,623 | 4,137 | 165 | 3,971 | -252 | 82 | 52 |
| | AVERAGE | 8,572 | 1,609 | 4,396 | 256 | 4,141 | -336 | 46 | 83 |
| 1982 | January | 8,509 | 1,705 | 3,693 | 170 | 3,523 | -159 | -242 | 101 |
| | February | 8,702 | 1,707 | 2,990 | 159 | 2,830 | -213 | -29 | . 156 |
| | March | 8,667 | 1,696 | 2,874 | 185 | 2,689 | -235 | 357 | 2 |
| | April | 8,591 | 1,691 | 2,849 | 190 | 2,659 | -233 | 196 | 231 |
| | May | 8,683 | 1,707 | 3,309 | 204 | 3,105 | -176 | 205 | 111 |
| | June | 8,646 | 1,665 | 3,836 | 105 | 3,732 | -105 | 144 | 133 |
| | July | 8,658 | 1,710 | 4,248 | 97 | 4,150 | -97 | -50 | -20 |
| | August | 8,634 | 1,697 | 3,851 | 208 | 3,643 | -208 | -232 | 189 |
| | September | 8,701 . | 1,705 | 3,636 | 139 | 3,497 | -143 | 406 | -210 |
| | October | 8,701 | 1,706 | 3,670 | 216 | 3,454 | -216 | -332 | 249 |
| | November | 8,697 | 1,676 | 3,862 | 180 | 3,683 | -179 | -219 | -124 |
| | December | 8,598 | 1,682 | 3,000 | 124 | 2,877 | -125 | 252 | 35 |
| | AVERAGE | 8,649 | 1,696 | 3,488 | 165 | 3,323 | -174 | 38 | 71 |
| 1983 | January | 8,634 | 1,698 | 2,938 | 219 | 2,720 | -219 | -348 | 238 |
| | February | 8,660 | 1,725 | 2,268 | 197 | 2,071 | -197 | -185 | 423 |
| | March | 8,677 | 1,726 | 2,232 | 201 | 2,031 | -184 | 240 | 134 |
| | April | 8,686 | 1,710 | 3,154 | 205 | 2,949 | -197 | -241 | 191 |
| | May | 8,682 | 1,710 | R3,234 | R289 | R2,945 | R-293 | R362 | 148 |
| | Junet | 8,676 | 1,710 | 3,445 | 187 | 3,258 | -188 | 114 | NA |
| | AVERAGE | 8,669 | 1,713 | 2,884 | 217 | 2,667 | -214 | -6 | NA NA |
| | A FEITAGE | 0,003 | 1,7 10 | 2,004 | 611 | 2,007 | -2 14 | -0 | IAW |

¹Includes lease condensate.

Includes lease condensate.

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

Strategic Petroleum Reserve.

Italics denote 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.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Sources: • See the last page of this section.

Crude Oil¹ Supply and Disposition (continued)

| | | Supply Disposition En | | nding Stocks ² | | | | | | |
|------|-----------|-------------------------------------|-----------------|---------------------------|---------|----------------------------------|-----------------|------------|------------------|--|
| | | Crude Used Directly ³ | Crude Losses | Refinery Inputs | Exports | Product Supplied ³ | Total | SPR4 | Other Primary | |
| | | | Thous | and barrels per | day | | Million barrels | | | |
| 1973 | AVERAGE | -19 | 13 | 12,431 | 2 | NA | 242 | | 242 | |
| 1974 | AVERAGE | -15 | 13 | 12,133 | 3 | NA | 265 | | 265 | |
| 1975 | AVERAGE | -17 | 13 | 12,442 | 6 | NA | 271 | | 271 | |
| 1976 | AVERAGE | -18 | 15 | 13,416 | 8 | NA | 285 | | 285 | |
| 1977 | AVERAGE | -14 | 16 | 14,602 | 50 | NA | 348 | 7 | 340 | |
| 1978 | AVERAGE | -14 | 16 | 14,739 | 158 | NA | 376 | 67 | 309 | |
| 1979 | AVERAGE | -13 | 16 | 14,648 | 235 | NA | 430 | 91 | 339 | |
| 1980 | AVERAGE | -13 | 15 | 13,481 | 287 | NA | 466 | 108 | 358 | |
| 1981 | January | -43 | 6 | 13,247 | 339 | NA | 486 | 112 | 374 | |
| | February | -55 | 3 | 12,902 | 198 | NA | 494 | 116 | 378 | |
| | March | -57 | 6 | 12,383 | 210 | NA | 514 | 121 | 393 | |
| | April | -59 | 3 | 12,091 | 198 | NA | 532 | 134 | 397 | |
| | May | -59 | 3 | 12,309 | 312 | NA | 544 | 150 | 394 | |
| | June | -58 | 7 | 12,415 | 123 | NA | 548 | 163 | 385 | |
| | July | -58 | 7 | 12,261 | 257 | NA NA | 559 | 173 | 386 | |
| | August | -58 | 5 | 12,908 | 204 | NA NA | 547 | 185 | 362 | |
| | September | -61 | 4 | 12,505 | 194 | NA NA | 555 | 199 | 356 | |
| | October | -63 | 3 | 12,057 | 226 | NA NA | 579 | 215 | 364 | |
| | | -63 -64 | 4 | 12,037 | 278 | NA NA | 589 | 223 | 366 | |
| | November | • • | 4 | | | NA NA | 594 | 230 | 363 | |
| | December | -63 | • | 12,349 | 189 | | 594 | 230 | 303 | |
| | AVERAGE | -58 | 5 | 12,470 | 228 | NA | | | | |
| 1982 | January | -63 | 3 | 11,599 | 238 | NA | 606 | 235 | 371 | |
| | February | -64 | 2 | 11,236 | 304 | NA | 613 | 241 | 372 | |
| | March | -63 | 5 | 11,276 | 321 | NA | 609 | 249 | 361 | |
| | April | -65 | 3 | 11,392 | 174 | NA | 610 | 256 | 355 | |
| | May | -62 | 3 | 11,806 | 262 | NA | 609 | 261 | 348 | |
| | June | -60 | 7 | 12,494 | 94 | NA | 608 | 264 | 344 | |
| | July | -60 | 3 | 12,446 | 229 | NA | 613 | 267 | 346 | |
| | August | -57 | 2 | 11,871 | 304 | NA | 626 | 274 | 353 | |
| | September | -56 | 4 | 12,146 | 184 | NA | 619 | 278 | 341 | |
| | October | -51 | 2 | 11,749 | 270 | NA | 636 | 285 | 351 | |
| | November | -51 | 1 | 11,724 | 262 | NA | 648 . | 290 | 358 | |
| | December | -53 | 1 | 11,514 | 193 | NA | 644 | 294 | 350 | |
| | AVERAGE | R-59 | R3 | 11,774 | 236 | NA | | | | |
| 1983 | January | NA | 2 | 11,070 | 117 | 54 | 661 | 301 | 361 | |
| | February | NA | 3 | 10,635 | 262 | 69 | 672 | 306 | 366 | |
| | March | NA | 2 | 10,854 | 174 | 70 | 670 | 312 | 359 | |
| | April | NA | 2 | 11,436 | 88 | 68 | 684 | 318 | 366 | |
| | May | NA | 1 | R11,789 | 280 | 63 | R681 | 327 | R355 | |
| | June† | NA | NA | 12,323 | NA | NA | <i>688</i> | <i>332</i> | <i>356</i> | |
| | AVERAGE | . NA | NA | 11,357 | NA | NA | | | | |

Dienosition

Ending Stocks²

¹Includes lease condensate.

²Stocks are totals as of end of period.

Beginning in January 1983, crude oil used directly as fuel is presented as product supplied for crude oil. Prior to January 1983, crude oil used directly was included with crude oil losses in this table and with product supplied for distillate and residual fuel oils on those tables.
*Strategic Petroleum Reserve.

[†]Italics denote preliminary data. R=Revised data. NA=Not available.

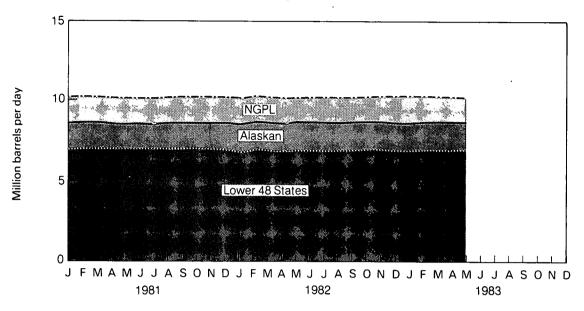
Notes: • Geographic coverage is the 50 States and the District of Columbia.

<sup>Totals may not equal sum of components due to independent rounding.
In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result</sup> of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974—265; 1980—483 (Total) and 375 (Other Primary); and 1982—644 (Total) and 350 (Other Primary).

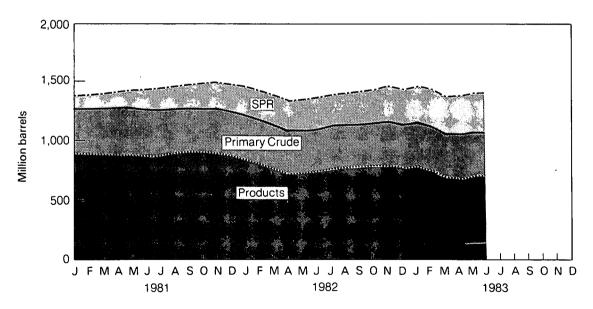
Sources: • See the last page of this section.

Overview

Production of Crude Oil and Natural Gas Plant Liquids

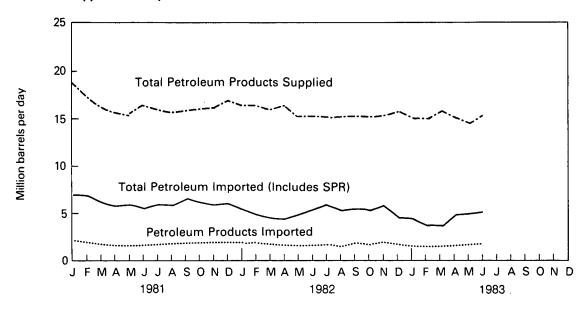


Stocks

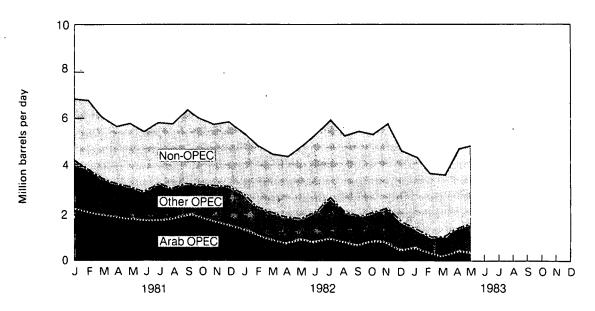


Overview

Products Supplied and Imports



Petroleum Imports by Source



Crude Oil and Petroleum Product Imports from OPEC Sources¹

| | | | | Saudi | United Arab | Indo- | | | Vene- | Other | Total | Total Arab |
|------|---------------------|------------|------------|----------------|----------------|------------|-----------|------------|------------|-------------------|----------------|----------------|
| | | Algeria | Libya | Arabia | Emirates | nesia | Iran | Nigeria | zuela | OPEC ² | OPEC | OPEC3 |
| | | | | | | Thousa | nd barrel | s 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 | January February | 341 381 | 500 468 | 1,284 1,122 | 93 93 | 424 406 | 0 | 908 866 | 549 463 | 27 92 | 4,127 3,891 | 2,219 2.064 |
| | March | 352 | 485 | 1,122 | 93 47 | 328 | 0 | 771 | 360 | 54 | 3,425 | 1,912 |
| | April | 263 | 485 | 1,027 | 47 68 | 307 | 0 | 812 | 237 | 39 | 3,425 | 1,867 |
| | May | 393 | 443 | 933 | 17 | 297 | Ö | 664 | 331 | 124 | 3,243 | 1,796 |
| | June | 356 | 380 | 865 | 60 | 367 | ő | 528 | 248 | 118 | 2,922 | 1,793 |
| | July | 333 | 251 | 1,073 | 80 | 340 | ő | 651 | 466 | 38 | 3,233 | 1,757 |
| | August | 348 | 274 | 1,073 | 61 | 377 | ŏ | 321 | 523 | 84 | 3,233 | 1,765 |
| | September | 336 | 154 | 1,477 | 96 | 371 | ŏ | 323 | 359 | 149 | 3,264 | 2,063 |
| | October | 242 | 147 | 1,342 | 90 | 427 | ő | 412 | 389 | 172 | 3,220 | 1,820 |
| | November | 210 | 132 | 1,270 | 112 | 353 | ŏ | 517 | 535 | 56 | 3,220 | 1,724 |
| | December | 176 | 122 | 1,045 | 158 | 400 | ŏ | 684 | 411 | 132 | 3,129 | 1,502 |
| | AVERAGE | 311 | 319 | 1,129 | 81 | 366 | ō | 620 | 406 | 90 | 3,323 | 1,848 |
| 1982 | January | 254 | 161 | 877 | 111 | 289 | 0 | 663 | 376 | 128 | 2,859 | 1,403 |
| | February | 139 | 92 | 693 | 89 | 244 | 0 | 584 | 355 | 102 | 2,297 | 1,054 |
| | March | 91 | 37 | 555 | 155 | 200 | 0 | 522 | 399 | 91 | 2,051 | 860 |
| | April | 85 | 0 | 511 | 122 | 215 | 0 | 427 | 426 | 85 | 1,871 | 740 |
| | May | 179 | 0 | 601 | 116 | 236 | 0 | 222 | 422 | 54 | 1,830 | 897 |
| | June | 115 | 0 | 593 | 94 | 215 | 72 | 537 | 361 | 110 | 2,096 | 820 |
| | July | 159 | 0 | 660 | 108 | 327 | 69 | 910 | 356 | 95 | 2,685 | 965 |
| | August | 181 | 0 | 489 | 133 | 271 | 27 | 574 | 299 | 133 | 2,107 | 818 |
| | September | 179 | 0 | 432 | 57 | 191 | 21 | 477 | 518 | 69 | 1,943 | 677 |
| | October | 249 | 7 | 494 | 61 | 242 | 108 | 313 | 504 | 106 | 2,084 | 810 |
| | November | 247 | 14 | 489 | 47 | 283 | 34 | 479 | 528 | 115 | 2,235 | 797 |
| | December | 155 | 0 | 237 | 12 | 265 | 88 | 462 | 399 | 73 | 1,690 | 421 |
| | AVERAGE | 170 | 26 | 552 | 92 | 248 | 35 | 514 | 412 | 97 | 2,146 | 854 |
| 1983 | January | 204 | 0 | 282 | 47 | 255 | 43 | 186 | 324 | 43 | 1,384 | 533 |
| | February | 104 | 0 | 214 | 9 | 217 | 0 | 92 | 371 | 28 | 1,035 | 326 |
| | March | 63 | 0 | 103 | 0 | 138 | 0 | 121 | 425 | 173 | 1,023 | 183 |
| | April | 228 | 0 | 180 | (s) | 210 | 0 | 186 | 508 | 125 | 1,438 | 409 |
| | May | 284 | 0 | 122 | 12 | 324 | 37 | 352 | 444 | 69 | 1,645 | 419 |
| | AVERAGE | 178 | 0 | 180 | 14 | 229 | 16 | 189 | 414 | 89 | 1,309 | 375 |

¹Excludes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined 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.

(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

Crude Oil and Petroleum Product Imports from Non-OPEC Sources:

| | | Trinidad | | | | | | | | | |
|------|---------------------|----------|------------|-------------|-------------------------|---------------|-------------------|-----------------|--------------------|------------|----------------|
| | | Bahamas | Canada | Mexico | Netherlands Antilles | and Tobago | United Kingdom | Puerto Rico² | Virgin Islands² | Other | Total |
| | | | | | Thou | sand barre | ls per day | | | | |
| 1973 | AVERAGE | 174 | 1,325 | 16 | 585 | 255 | 15 | 99 | 329 | 465 | 3,263 |
| 1974 | AVERAGE | 164 | 1,070 | 8 | 511 | 251 | 8 | 90 | 391 | 340 | 2,832 |
| 1975 | AVERAGE | 152 | 846 | 71 | 332 | 242 | 14 | 90 | 406 | 300 | 2,454 |
| 1976 | AVERAGE | 118 | 599 | 87 | 275 | 274 | 31 | 88 | 422 | 353 | 2,247 |
| 1977 | AVERAGE | 171 | 517 | 179 | 211 | 289 | 126 | 105 | 466 | 550 | 2,614 |
| 1978 | AVERAGE | 160 | 467 | 318 | 229 | 253 | 180 | 94 | 429 | 484 | 2,613 |
| 1979 | AVERAGE | 147 | 538 | 439 | 231 | 190 | 202 | 92 | 431 | 548 | 2,819 |
| 1980 | AVERAGE | 78 | 455 | 533 | 225 | 176 | 176 | 88 | 388 | 491 | 2,609 |
| 1981 | January February | 39 84 | 543 546 | 401 .437 | 198 227 | 150 163 | 233 271 | 89 46 | 494 481 | 552 626 | 2,701 2,881 |
| | March | 74 | 472 | 488 | 227 | 93 | 263 | 45 | 370 | 571 | 2,603 |
| | | 68 | 412 | 418 | 198 | 139 | 402 | 40 | 365 | 380 | 2,423 |
| | April | 122 | 365 | 522 | 213 | 105 | 368 | 58 | 344 | 474 | 2,573 |
| | May | | | 538 | 196 | 124 | 397 | 67 | 262 | 525 | 2,513 |
| | June | 51 77 | 353 382 | 384 | 212 | 178 | 553 | 50 | 206 | 541 | 2,583 |
| | July | | | 384 489 | 255 | 123 | 592 | 68 | 184 | 539 | 2,503 |
| | August | 69 | 378 | | 163 | 169 | 528 | 72 | 265 | 661 | 3,100 |
| | September | 111 | . 423 | 708 | | | | 60 | 303 | 562 | 2,739 |
| | October | 63 | 449 | 669 | 161 | 121 | 351 | 76 | 294 | 421 | 2,739 |
| | November | 63 | 547 | 628 | 168 | 108 | 253 280 | 78 73 | 367 | 563 | 2,714 |
| | December | 70 | 501 | 587 | 148 | 125 | | | | | • |
| | AVERAGE | 74 | 447 | 522 | 197 | 133 | 375 | 62 | 327 | 534 | 2,672 |
| 1982 | January | 58 | 513 | 425 | 179 | 106 | 346 | 62 | 334 | 452 | 2,474 |
| | February | 67 | 537 | 476 | 221 | 120 | 181 | 38 | 362 | 508 | 2,510 |
| | March | 43 | 437 | 503 | 189 | 118 | 294 | 62 | 307 | 480 | 2,433 |
| | April | 82 | 360 | 476 | 184 | 166 | 247 | 36 | 266 | 690 | 2,507 |
| | May | 77 | 419 | 766 | 152 | 95 | 516 | 47 | 302 | 607 | 2,981 |
| | June | 32 | 481 | 797 | 148 | 129 | 557 | 58 | 322 | 708 | 3,231 |
| | July | 64 | 536 | 783 | 158 | 118 | 433 | 38 | 376 | 698 | 3,204 |
| | August | 80 | 443 | 853 | 145 | 106 | 520 | 24 | 317 | 650 | 3,137 |
| | September | 92 | 493 | 897 | 195 | 89 | 631 | 51 | 278 | 746 | 3,472 |
| | October | 45 | 459 | 682 | 148 | 109 | 666 | 52 | 262 | 801 | 3,222 |
| | November | 51 | 553 | 860 | 212 | 90 | 623 | 81 | 334 | 706 | 3,508 |
| | December | 88 | 561 | 689 | 174 | 102 | 438 | 48 | 336 | 480 | 2,916 |
| | AVERAGE | 65 | 482 | 685 | 175 | 112 | 456 | 50 . | 316 | 627 | 2,968 |
| 1983 | January | 68 | 536 | 849 | 218 | 73 | 315 | 40 | 299 | 588 | 2,988 |
| | February | 92 | 592 | 722 | 179 | 81 | 193 | 50 | 192 | 554 | 2,655 |
| | March | 86 | 488 | 760 | 187 | 78 | 240 | 43 | 162 | 563 | 2,606 |
| | April | 167 | 452 | 981 | 216 | 85 | 421 | 20 | 183 | 781 | 3,306 |
| | May | 135 | 501 | 944 | 153 | 108 | 483 | 42 | 235 | 651 | 3,252 |
| | AVERAGE | 110 | 513 | 853 | 191 | 85 | 333 | 39 | 215 | 628 | 2,965 |
| | ATENAGE | 110 | 313 | 933 | 131 | , | 555 | | - 10 | | _,,,,, |

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

*U.S. possessions.

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

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

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

Sources: • See the last page of this section.

Finished Motor Gasoline Supply and Disposition

| | | | | Disposition | | | | Ending Stocks | | | |
|------|-----------|--------|----------------------|--------------------------------------|--------------|--------|-----------------------|----------------------|-----------------------|-------------------|--|
| | | Total | | Stock | | ·P | roduct Suppl | ied | Total Motor | Finished | |
| | | | Imports ¹ | Withdrawal ¹ ² | Exports | Total | Unleaded ³ | Unleaded Percent | Gasoline ⁴ | Motor Gasoline | |
| | | | | Thousand | d barrels pe | r day | | of Total | Million barrels | | |
| 1973 | AVERAGE | 6,535 | 134 | 9 | 4 | 6,674 | | | 209 | | |
| 1974 | AVERAGE | 6,360 | 204 | -24 | 2 | 6,537 | | | 218 | | |
| 1975 | AVERAGE | 6,520 | 184 | -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 | January | 6,715 | 138 | -421 | (s) | 6,431 | 3,141 | 48.8 | 276 | 227 | |
| | February | 6,308 | 111 | ^ -118 | . 1 | 6,301 | 3,095 | 49.1 | 284 | 230 | |
| | March | 6,213 | 171 | -81 | (s) | 6,303 | 3,097 | 49.1 | 285 | 232 | |
| • | April | 6,114 | 186 | 303 | (s) | 6,602 | 3,284 | 49.7 | 272 | 223 | |
| | May | 6,122 | 150 | 344 | 1 | 6,615 | 3,115 | 47.1 | 259 | 213 | |
| | June | 6,220 | 186 | 622 | 1 | 7,028 | 3,419 | 48.6 | 242 | 194 | |
| | July | 6,405 | 151 | 268 | (s) | 6,823 | 3,424 | 50.2 | 228 | 186 | |
| | August | 6,611 | 124 | -95 | 3 | 6,637 | 3,344 | 50.4 | 233 | 189 | |
| | September | 6,564 | 169 | -70 | 2 | 6,662 | 3,338 | 50.1 | 237 | 191 | |
| | October | 6,426 | 147 | 7 | 3 | 6,578 | 3,257 | 49.5 | 236 | 190 | |
| | November | 6,564 | 148 | -338 | 1 | 6,373 | 3,198 | 50.2 | 248 | 201 | |
| | December | 6,586 | 197 | -91 | 11 | 6,681 | 3,444 | 51.5 | 253 | 203 | |
| | AVERAGE | 6,405 | 157 | 28 | 2 | 6,588 | 3,264 | 49.5 | | | |
| 1982 | January | 6,167 | 128 | -316 | 18 | 5,961 | 3,067 | 51.5 | 261 | 213 | |
| | February | 5,899 | 133 | 172 | 8 | 6,196 | 3,210 | 51.8 | 257 | 208 | |
| | March | 5,994 | 183 | 334 | 44 | 6,466 | 3,358 | 51.9 | 247 | 198 | |
| | April | 6,095 | 185 | 650 | 33 | 6,897 | 3,495 | 50.7 | 221 | 179 | |
| | May | 6,319 | 182 | 177 | 23 | 6,655 | 3,415 | 51.3 | 214 | 173 | |
| | June | 6,754 | 230 | -134 | 14 | 6,835 | 3,565 | 52.2 | 219 | 177 | |
| | July | 6,768 | 225 | -178 | 24 | 6,790 | 3,577 | 52.7 | 226 | 183 | |
| | August | 6,419 | 291 | -81 | 16 | 6,614 | 3,526 | 53.3 | 227 | 185 | |
| | September | 6,527 | 223 | -198 | 22 | 6,531 | 3,404 | 52.1 | 234 | 191 | |
| | October | 6,262 | 185 | -42 | 15 | 6,391 | 3,351 | 52.4 | 234 | 192 | |
| | November | 6,273 | 211 | 101 | 11 | 6,574 | 3,451 | 52.5 | 230 | 189 | |
| | December | 6,542 | 178 | -165 | 7 | 6,549 | 3,485 | 53.2 | 235 | 194 | |
| | AVERAGE | 6,338 | 197 | 25 | 20 | 6,539 | 3,409 | 52.1 | | | |
| 1983 | January | 6,020 | 148 | -186 | (s) | 5,981 | 3,352 | 56.0 | 251 | 208 | |
| | February | 5,848 | 142 | 32 | (s) | 6,022 | 3,257 | 54.1 | 251 | 207 | |
| | March | 5,897 | 205 | 765 | 23 | 6,843 | 3,620 | 52.9 | 224 | 184 | |
| | April | 6,202 | 273 | 27 | 1 | 6,501 | 3,505 | 53.9 | 221 | 183 | |
| | May | R6,386 | R284 | R-128 | . 1 | R6,540 | 3,547 | 54.2 | R225 | R187 | |
| | June† | 6,608 | 286 | 42 | NA | 6,923 | NA | NA | 222 | 184 | |
| | AVERAGE | 6,163 | 224 | 94 | NA | 6,473 | NA | NA | | | |

¹Beginning in 1981, excludes blending components.

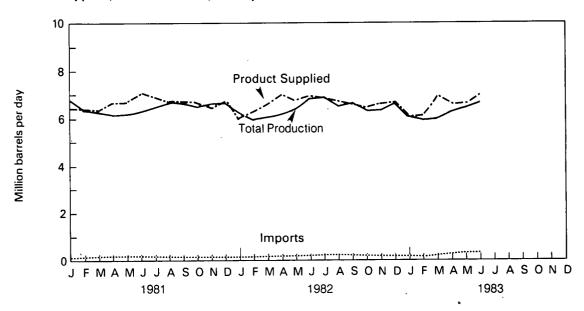
²A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>A negative number indicates an increase in stocks and a positive number indicates a decrease.
Includes gasohol.
Includes motor gasoline blending components. Stocks are totals as of end of period.
Italics denote 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.
• Beginning in 1981, survey forms were modified. See Note 2 on the last page of this section.
• In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded</sup> extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974—225; 1980—263; 1982—244 (Total) and 203 (Finished). Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

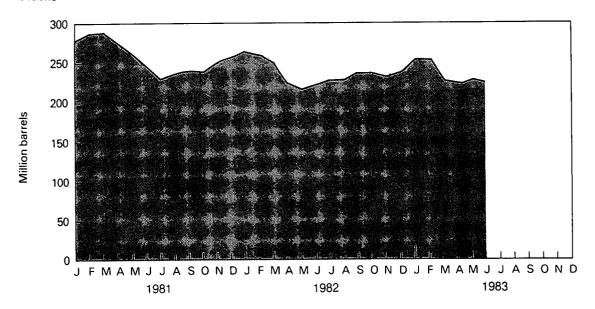
Sources: • See the last page of this section.

Motor Gasoline

Product Supplied, Total Production, and Imports



Stocks



Distillate Fuel Oil Supply and Disposition

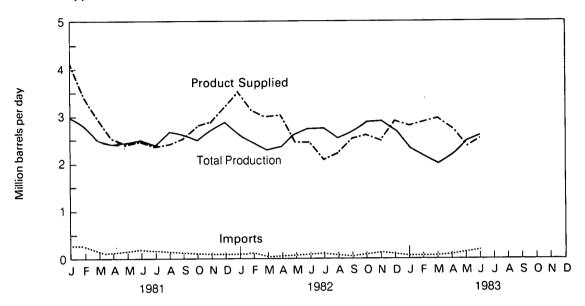
| | | | Sup | ply | | Dispo | Ending Stocks ¹ | |
|------|---------------------|---------------------|----------|----------------------------------|--|------------------|----------------------------------|------------------|
| | | Total Production | Imports | Stock Withdrawal ² | Crude Used Directly ³ | Exports | Product Supplied ³ | |
| | • | | | Thousand ba | arrels 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 | |
| 1980 | AVERAGE | 2,662 | 142 | 64 | 1 | 3 | • | 229 |
| | | • | | * * | - | 3 | 2,866 | 205 |
| 1981 | January | 2,989 | 273 | 836 | 11. | (s) | 4,109 | 179 |
| | February | 2,809 | 325 | 246 | 11 | 17 | 3,373 | 173 |
| | March | 2,484 | 147 | 264 | 9 | (s) | 2,904 | 164 |
| | April | 2,418 | 116 | -9 | 10 | 3 | 2,532 | 165 |
| | May | 2,454 | 179 | -232 | 10 | (s) | 2,411 | 172 |
| | June | 2,501 | 225 | -270 | 9 | (s) | 2,464 | 180 |
| | July | 2,395 | 179 | -204 | 10 | 2 | 2,378 | 186 |
| | August | 2,656 | 174 | -450 | 8 | (s) | 2,388 | 200 |
| | September | 2,610 | 129 | -235 | 10 | 1 | 2,51 <u>3</u> | 207 |
| | October | 2,485 | 119 | 197 | 9 | 5 | 2,803 | 201 |
| | November | 2,716 | 124 | 36 | 11 | 6 | 2,880 | 200 |
| | December | 2,856 | 95 | 277 | 11 | 26 | 3,212 | 192 |
| | AVERAGE | 2,613 | 173 | 38 | 10 | 5 | 2,829 | |
| 1982 | January | 2,591 | 97 | 876 | 10 | 90 | 3,484 | 164 |
| | February | 2,427 | 132 | 605 | 11 | 90 | 3,085 | 147 |
| | March | 2,288 | 48 | 682 | 10 | 84 | 2,945 | 126 |
| | April | 2,358 | 59 | 612 | 13 | 64 | 2,978 | 108 |
| | May | 2,618 | 74 | -183 | 10 | 75 | 2,444 | 114 |
| | June | 2,729 | 102 | -335 | 10 | 55 | 2,452 | 124 |
| | July | 2,734 | 125 | -789 | 11 . | 24 | 2,058 | 148 |
| | August September | 2,507 | 80 | -339 | 10 | 40 | 2,218 | _. 159 |
| | October | 2,657 2,838 | 61 91 | -85 | 12 | 139 | 2,507 | 161 |
| | November | 2,860 | 145 | -289 -514 | 8 8 | 66 | 2,581 | 170 |
| | December | 2,655 | 109 | 225 | 10 | 24 | 2,475 | 186 |
| | AVERAGE | 2,606 | 93 | 35 | 10 10 | 143 74 | 2,855 2,671 | 179 |
| 1983 | January | 2,314 | 58 | 561 | NA NA | 173 | • | 100 |
| | February | 2,136 | 58 | 742 | NA NA | 105 | 2,760 2,832 | 168 |
| | March | 1,991 | 42 | 926 | NA NA | 59 | 2,632 2,900 | 147 119 |
| | April | R2,169 | 73 | 518 | NA | 47 | 2,900 | 103 |
| | May | R2,444 | R141 | R-193 | NA NA | 50 | 2,713 R2,341 | R109 |
| | June† | 2,577 | 169 | -166 | NA | NA | 2,527 | 112 |
| | AVERAGE | 2,273 | 90 | 395 | NA | NA | 2,677 | 112 |

Stocks are totals as of end of period.

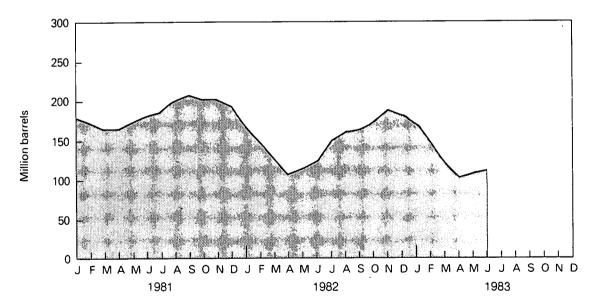
¹Stocks are totals as of end of period.
²A negative number indicates an increase in stocks and a positive number indicates a decrease.
³Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly.
†Italics denote preliminary data. R = Revised data. NA = 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.
• Beginning in 1981, survey forms were modified. See Note 3 on the last page of this section.
• In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974—224; 1980—205; and 1982—186. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.
Sources: • See the last page of this section. Sources: • See the last page of this section.

Distillate Fuel Oil

Product Supplied, Total Production, and Imports



Stocks



Residual Fuel Oil Supply and Disposition

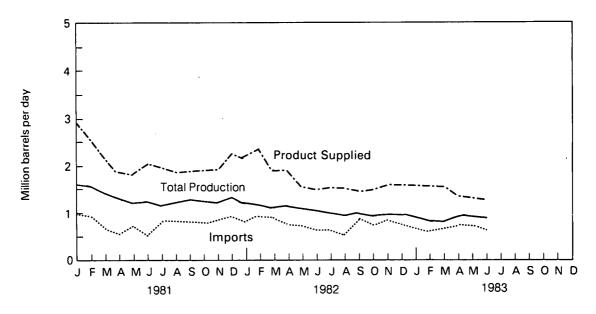
| | | | Sup | pply | | Dispo | Ending Stocks ¹ | |
|------|-----------|---------------------|---------|----------------------------------|--|---------|----------------------------------|-----------------|
| | | Total Production | Imports | Stock Withdrawal ² | Crude Used Directly ³ | Exports | Product Supplied ³ | |
| | | | | Thousand ba | rrels per day | | | Million barrels |
| 1973 | AVERAGE | 971 | 1,853 | 5 | 17 | 23 | 2,822 | 53 |
| 1974 | AVERAGE | 1,070 | 1,587 | -17 | 13 | 14 | 2,639 | 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 | January | 1,612 | 1,015 | 302 | 32 | 65 | 2,896 | . 82 |
| | February | 1,565 | 954 | 150 | 44 | 125 | 2,588 | 78 |
| | March | 1,424 | 699 | 100 | 48 | 145 | 2,126 | 75 |
| | April | 1,320 | 584 | 66 | 49 | 151 | 1,868 | 73 |
| | May | 1,223 | 741 | -170 | 49 | 25 | 1,817 | 78 |
| | June | 1,232 | 540 | 291 | 49 | 76 | 2.037 | 69 |
| | July | 1,174 | 830 | 2 | 48 | 82 | 1,971 | 69 |
| | August | 1,231 | 819 | -179 | 50 | 69 | 1,852 | 75 |
| | September | 1,292 | 841 | -176 | 51 | 126 | 1,882 | 80 |
| | October | 1,238 | 786 | 8 | 54 | 202 | 1,884 | 80 |
| | November | 1,227 | 880 | -49 | 53 | 203 | 1,909 | 81 |
| | December | 1,329 | 916 | 110 | 52 | 157 | 2,250 | 78 |
| | AVERAGE | 1,321 | 800 | 37 | 48 | 118 | 2,088 | |
| 1982 | January | 1,235 | 831 | 301 | 53 | 235 | 2,185 | 69 |
| | February | 1,186 | 956 | 363 | 53 | 213 | 2,344 | 58 |
| | March | 1,123 | 912 | 12 | 53 | 197 | 1,903 | 58 |
| | April | 1,166 | 788 | 150 | 52 | 234 | 1,923 | 54 |
| | May | 1,128 | 742 | -172 | 52 | 191 | 1,560 | 59 |
| | June | 1,074 | 652 | -57 | 50 | 217 | 1,501 | 61 |
| | July | 1,028 | 657 | 56 | 49 | 239 | 1,550 | 59 |
| | August | 965 | 551 | 203 | 47 | 235 | 1,531 | 53 |
| | September | 1,008 | 872 | -306 | 44 | 148 | 1,470 | 62 |
| | October | 955 | 783 | -57 | 43 | 234 | 1,490 | 64 |
| | November | 989 | 837 | -94 | 43 | 182 | 1,591 | 66 |
| | December | 989 | 747 | 6 | 43 | 186 | 1,598 | 66 |
| | AVERAGE | 1,070 | 776 | 32 | 48 | 209 | 1,716 | |
| 1983 | January | 935 | 691 | 243 | NA | 294 | 1,574 | 61 |
| | February | 857 | 632 | 270 | NA | 191 | 1,568 | 53 |
| | March | 833 | 686 | 220 | NA | 169 | 1,569 | 46 |
| | April | 942 | 743 | -10 | NA | 310 | 1,364 | 47 |
| | May | R930 | R709 | R-139 | NA | 190 | R1,310 | R51 |
| | June† | <i>887</i> | 618 | -3 | NA | NA | 1,267 | 49 |
| | AVERAGE | 898 | 681 | 95 | NA | NA | 1,441 | |

¹Stocks are totals as of end of period.

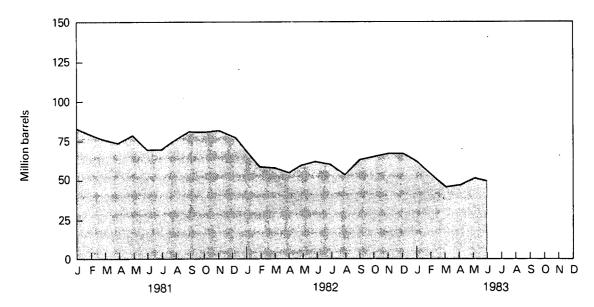
¹Stocks are totals as of end of period.
²A negative number indicates an increase in stocks and a positive number indicates a decrease.
³Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly.
†Italics denote preliminary data. R = Revised data. NA = 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.
• Beginning in 1981, survey forms were modified. See Note 3 on the last page of this section.
• In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974—75; 1980—91; and 1982—68. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels. are calculated using new basis stock levels. Sources: • See the last page of this section.

Residual Fuel Oil

Product Supplied, Total Production, and Imports



Stocks



Liquefied Petroleum Gases Supply and Disposition

| | | Supply | | | | Ending Stocks ¹ | | |
|------|--|---|--|---|--|---|--|--|
| | | Total Production | Imports | Stock Withdrawal ² | Refinery Inputs | Exports | Product Supplied | |
| | | | | Thousand barr | els 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 | January February March April May June July August September October November December AVERAGE January February | 1,617 1,593 1,551 1,586 1,587 1,567 1,507 1,592 1,622 1,622 1,593 1,571 1,468 1,571 1,565 1,466 | 306 327 260 214 189 206 213 195 199 287 280 255 244 314 291 | 363 173 -4 -236 -258 -208 -258 -242 -75 72 86 379 -18 443 243 | 352 303 257 231 220 237 215 235 287 320 383 428 289 391 327 | 21 20 26 19 24 17 149 21 76 58 50 42 67 | 1,913 1,769 1,530 1,308 1,279 1,304 1,229 1,160 1,438 1,556 1,495 1,624 1,466 | 117 112 112 119 127 133 141 149 151 149 146 135 |
| 1983 | March April May June July August September October November December AVERAGE January February March | 1,544 1,506 1,565 1,515 1,476 1,511 1,538 1,517 1,542 1,580 1,528 1,662 1,560 1,517 | 223 188 186 192 227 125 247 194 267 258 226 240 305 166 | 211 98 -71 -86 -13 -45 37 97 175 256 111 618 84 -51 | 289 257 234 262 253 254 274 306 363 395 300 313 237 189 | 74 77 43 106 37 61 85 81 37 56 65 118 76 | 1,615 1,458 1,403 1,254 1,399 1,276 1,463 1,421 1,583 1,642 1,499 2,088 1,636 1,316 | 108 105 107 109 110 111 110 107 102 94 |
| | April | 1,531 | 124 | -107 | 198 | 116 | 1,232 | 86 |
| | May AVERAGE | 1,545 1,563 | 167 199 | -326 44 | 207 229 | 84 105 | 1,094 1,472 | 96 |

^{&#}x27;Stocks are totals as of end of period.

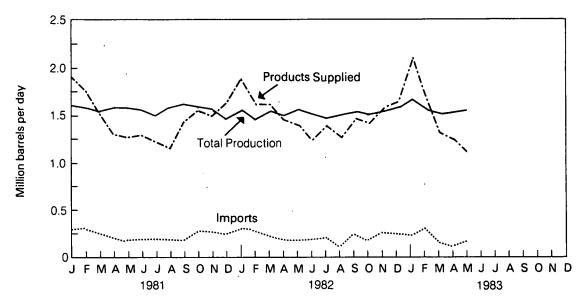
²A negative number indicates an increase in stocks and a positive number indicates a decrease. Notes: • Geographic coverage is the 50 States and the District of Columbia.

Notes: • Geographic coverage is the 50 states and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974—113; 1980—128; and 1982—103. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

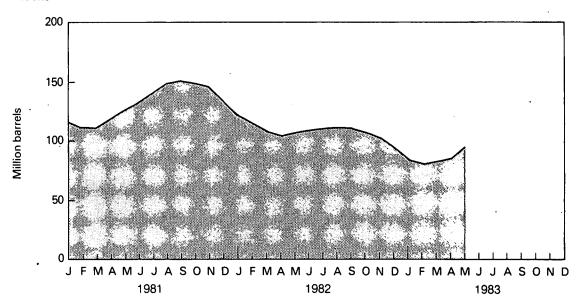
Sources: • See the last page of this section.

Liquefied Petroleum Gases

Product Supplied, Total Production, and Imports



Stocks



Other Petroleum Products¹ Supply and Disposition

| | | Supply | | | | 1 | Ending Stocks ² | |
|------|--|--|--|--|--|--|--|--|
| | | Total Production | Imports | Stock Withdrawal ³ | Refinery Inputs | Exports | Product Supplied | |
| | | | | Thousand bar | rels per day | | | Million barrels |
| 1973 | AVERAGE | 3,693 | 502 | -9 | 750 | 166 | 3,270 | 208 |
| 1974 | AVERAGE | 3,558 | 432 | -28 | 665 | 174 | 3,123 | 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 | January February March April May June July August September October November December AVERAGE January February | 3,821 3,723 3,722 3,711 3,892 3,925 3,852 3,876 3,718 3,503 3,579 3,543 3,739 3,171 3,403 | 162 182 230 230 229 218 149 276 286 241 262 243 226 269 305 | 80 -200 -55 24 -58 -29 284 -33 215 193 33 71 46 -7 | 851 538 642 733 594 656 791 676 883 710 784 805 723 | 132 208 210 192 238 197 212 219 176 227 154 223 199 180 138 | 3,081 2,958 3,043 3,040 3,231 3,261 3,282 3,225 3,159 3,000 2,935 2,829 3,088 2,631 2,755 | 296 302 304 303 305 306 297 298 291 285 284 282 |
| | March April May June July August September October November December AVERAGE | 3,466 3,408 3,317 3,547 3,660 3,583 3,533 3,529 3,498 3,324 3,453 | 303 243 309 318 315 408 346 375 383 423 313 334 | -193 -191 -73 -184 -123 -1 217 -105 -244 -28 -366 -80 | 725 726 824 812 856 743 749 915 837 885 | 136 161 204 210 216 187 202 213 266 269 275 | 2,755 2,631 2,790 2,785 2,954 3,023 3,201 3,051 2,976 2,786 2,786 2,869 | 287 293 290 285 281 281 274 271 264 264 253 |
| 1983 | January February March April May AVERAGE | 3,222 3,270 3,400 3,363 3,448 3,342 | 297 287 298 377 364 325 | -371 -1 -94 3 26 -90 | 570 680 570 596 694 621 | 271 232 249 247 242 249 | 2,307 2,645 2,786 2,901 2,902 2,708 | 271 271 273 273 273 273 |

Includes natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, liquefied petroleum gases, and ethane. ²Stocks are totals as of end of period.

^{*}Stocks are totals as of end of period.

3A negative number indicates an increase in stocks and a positive number indicates a decrease.

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

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

• In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974—220; 1980—249; and 1982—259. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Sources: • See the last page of this section 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 were not being adequately relected in the EIA survey forms. Plist, the hows of driminshed one and the redestignation of missies of the 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 into two categories (finished leaded and finished unleaded); and separated blending components from finished motor gasoline as a reporting category. Also, survey forms were modified to describe refinery operations more accurately. For further details, see the EIA *Petroleum Supply Monthly.*4. **Distillate and Residual Fuel Oils:** The requirement to report crude oil burned on leases and pipelines as either distillate or residual fuel oil has been eliminated. Prior to January 1981, the refinery input of unfinished oils number typically exceeded the number for available supply of unfinished oils. This was assumed to be due to the redesignation of distillate and residual fuel oils received as such, but used as an unfinished oil input by the receiving refinery. This imbalance between supply and disposition of unfinished oils would then be subtracted from presidual. Beginning in January 1981, the EIA modified its survey. 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.

Sources

- 1973 through 1976: Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual" (except unleaded gasoline) and "PAD Districts Supply/Demand, Annual."

 • Unleaded gasoline—1977 through 1980: Energy Information Administration (EIA), Monthly Petroleum Statistics Report.
- 1977 through 1982: EIA, Energy Data Reports, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual.
- January 1983 through May 1983: EIA, Petroleum Supply Monthly.
- Data for the most recent month are estimates based on EIA weekly data (except domestic production).
 Domestic production for the most recent month is an EIA estimate based on historical data from State Conservation
- Agencies and the U.S. Geological Survey.

 Sources for the Energy Data Reports, the Petroleum Supply Monthly, and the Monthly Petroleum Statistics Report are: EIA Forms EIA-816 (Natural Gas Liquids Operations Report), EIA-810 (Refinery Report), EIA-811 (Bulk Terminals Report), EIA-812 (Pipeline Report), and EIA-813 (Crude Oil Stock Report); Economic Regulatory Administration (ERA) Forms ERA-60 (Imports) and FEA P133 (Imports from Puerto Rico); Bureau of the Census IM 145 (Imports), EM 522 (Exports), and EM 594 (Exports); U.S. Geological Survey (Crude Production); and State conservation agencies (Crude Production).

Total dry natural gas production, including nonhydrocarbon gases, in the United States during June 1983 was an estimated 1.3 trillion cubic feet (Tcf). This was 11.8 percent lower than in June 1982. Output during the first 6 months of 1983 totaled 8.0 Tcf, 13.1 percent less than during the first half of 1982.

Consumption of natural and supplemental gas in June 1983 was an estimated 1.1 Tcf, 4.9 percent lower than in June 1982. Estimated consumption during the first half of 1983 totaled 8.9 Tcf, 9.6 percent lower than during the comparable 1982 period.

Imports of natural gas in June 1983 were an estimated 62 billion cubic feet (Bcf), 1.6 percent higher than in the previous June. During the first 6 months of 1983, imports of natural gas totaled an estimated 515 Bcf, 11.2 percent higher than during the comparable 1982 period. Receipts of foreign gas during June 1983 included Algerian liquefied natural gas (LNG) equivalent to approximately 13 Bcf. Total imports of Algerian LNG during the first half of 1983 were approximately 83 Bcf, almost five times the quantity received in the first half of 1982.

Domestic producer sales to major interstate pipelines in April 1983 (latest data available) totaled 678 Bcf, 20.5 percent lower than during the previous April. Total sales during the first 4 months of 1983 were 3.0 Tcf, 18.5 percent less than during the comparable 1982 period.

Stocks of working gas* in underground natural gas storage reservoirs at the end of June 1983 totaled 2.4 Tcf. This was 3.2 percent above stocks available a year earlier. Net additions to storage during June 1983 were 230 Bcf, 32.2 percent lower than during the previous June.





^{*}Gas available for withdrawal.

| | | Production | | _ | | | | Domestic | |
|------|-----------|--------------------------------|---------------|--------------------------------------|----------------------------------|---|---------|----------|---|
| | | Total Marketed ¹ | Total Dry² | Nonhydro- carbon Gases Removed | Supplemental Gaseous Fuels | Total Domestic Consumption ³ | Imports | Exports | Producer Sales to Major Interstate Pipelines |
| | | | | | Billion cub | ic feet | | | |
| 1973 | TOTAL | 22,648 | 21,731 | NA | NA | 22,049 | 1,033 | 77 | 12,067 |
| 1974 | TOTAL | 21,601 | 20,713 | NA | NA | 21,223 | 959 | 77 | 11,462 |
| 1975 | TOTAL | 20,109 | 19,236 | NA | NA | 19,538 | 953 | 73 | 10,652 |
| 1976 | TOTAL | 19,952 | 19,098 | NA | NA | 19,946 | 964 | 65 | 10,140 |
| 1977 | TOTAL | 20,025 | 19,163 | NA | NA | 19,521 | 1,011 | 56 | 9,883 |
| 1978 | TOTAL | 19,974 | 19,122 | NA | NA | 19,627 | 966 | 53 | 9,911 |
| 1979 | TOTAL | 20,471 | 19,663 | NA | NA | 20,241 | 1,253 | 56 | 10,496 |
| 1980 | TOTAL | 20,379 | 19,602 | 195 | 155 | 19,877 | 985 | 49 | 10,578 |
| 1981 | January | 1,772 | 1,704 | 20 | 20 | 2,279 | 91 | 5 | 962 |
| | February | 1,591 | 1,530 | 17 | 17 | 1,894 | 85 | 5 | 869 |
| | March | 1,753 | 1,686 | 18 | 17 | 1,900 | 80 | 5 | 942 |
| | April | 1,692 | 1,627 | 17 | 14 | 1,489 | 69 | 5 | 900 |
| | May | 1,716 | 1,650 | 18 | 13 | 1,426 | 62 | 4 | 909 |
| | June | 1,653 | 1,590 | 19 | 12 | 1,309 | 65 | 5 | 877 |
| | July | 1,683 | 1,618 | 20 | 12 | 1,315 | 66 | 5 | 889 |
| | August | 1,724 | 1,658 | 18 | 12 | 1,314 | 64 | 5 | 864 |
| | September | 1,595 | 1,534 | 18 | 12 | 1,266 | 67 | 6 | 869 |
| | October | 1,660 | 1,596 | 17 | 14 | 1,518 | 79 | 5 | 889 |
| | November | 1,600 | 1,539 | 17 | 15 | 1,619 | 82 | 5 | 904 |
| | December | 1,738 | 1,671 | - 19 | 19 | 2,077 | 93 | 5 | 1,055 |
| | TOTAL | 20,178 | 19,403 | 217 | 176 | 19,404 | 904 | 59 | 10,929 |
| 1982 | January | 1,725 | 1,659 | 18 | 21 | R2,362 | 98 | 3 | 969 |
| | February | 1,583 | 1,522 | 18 | R18 | R1,958 | 85 | 5 | 901 |
| | March | 1,670 | 1,606 | 18 | 16 | 1,815 | 82 | 5 | 909 |
| | April | 1,575 | 1,515 | 17 | 13 | R1,469 | 72 | 2 | 853 |
| | May | 1,547 | 1,488 | 16 | R11 | R1,136 | 65 | 3 | 889 |
| | June | 1,500 | 1,442 | 15 | 10 | R1,115 | 61 | 6 | 814 |
| | July | 1,520 | 1,462 | 15 | R11 | R1,146 | .67 | 5 | 787 |
| | August | 1,488 | 1,431 | 17 | R11 | R1,148 | 61 | 6 | . 793 |
| | September | 1,426 | 1,371 | 15 | 10 | R1,136 | 66 | 5 | 753 |
| | October | 1,453 | 1,397 | 15 | 12 | R1,299 | 77 | 5 | 765 |
| | November | 1,468 | 1,412 | 17 | 14 | R1,538 | 91 | 5 | 801 |
| | December | 1,506 | 1,448 | 18 | 15 | R1,715 | 110 | 5 | 834 |
| | TOTAL | 18,462 | 17,753 | 199 | R162 | R17,837 | 933 | 52 | 10,068 |
| 1983 | January | R1,538 | R1,479 | 18 | R18 | R1,983 | 120 | 5 | 782 |
| | February | R1,360 | R1,308 | 16 | 15 | R1,659 | 102 | 5 | 762 |
| | March | R1,410 | R1,356 | 17 | R15 | R1,613 | 91 | 5 | 738 |
| | April | R1,345 | R1,293 | R16 | 13 | R1,411 | 76 | 4 | 678 |
| | May | R1,364 | R1,312 | R16 | 11 | R1,185 | R64 | 3 | NA |
| | June | 1,323 | 1,272 | 16 | 10 | 1,060 | 62 | 5 | NA |

Includes nonhydrocarbon gases removed such as carbon dioxide, hydrogen sulfide, helium, and nitrogen. See Note 1 on the last page of this section.

²Total net dry marketed production is the volume of total marketed production, including nonhydrocarbon gases, remaining after the extraction of natural gas plant liquids, such as ethane, propane, butanes, etc. See Note 1 on the last page of this section.

Includes supplemental gaseous fuels such as synthetic natural gas, propane-air, and refinery (still) gas normally mixed with natural gas prior to consumption. See Note 1 on the last page of this section.

R = Revised data. NA = Not available.

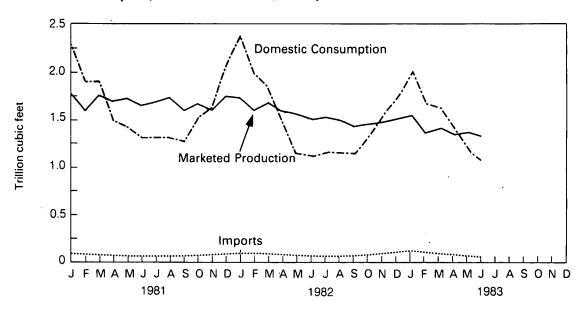
Notes: • Geographic coverage is the 50 States and the District of Columbia.

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

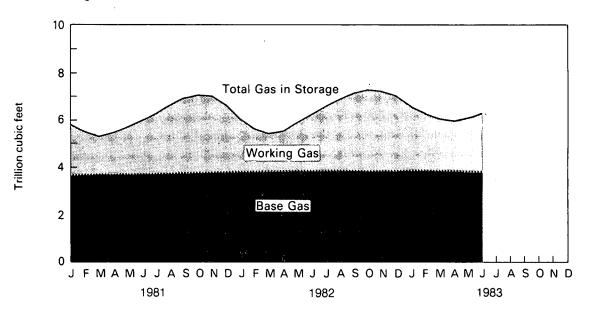
[·] Estimated data are in italics and are likely to be revised.

Sources: • See the last page of this section.

Domestic Consumption, Marketed Production, and Imports



Gas in Storage



Natural Gas in Underground Storage¹

| | | Total Gas | | | | | Net |
|------|-------------------|------------------|------------------|------------------|-----------------------|------------------------|------------------------------------|
| | | in Storage² | Base Gas² | Working Gas² | Storage Injections | Storage Withdrawals | Storage Injections ³ |
| | | | | Billion c | ubic feet | | |
| 1973 | TOTAL | 4,898 | 2,864 | 2,034 | NA | NA | NA |
| 1974 | TOTAL | 4,962 | 2,912 | 2,050 | NA | NA | NA |
| 1975 | TOTAL | 5,374 | 3,162 | 2,212 | NA | NA | NA |
| 1976 | TOTAL | 5,250 | 3,323 | 1,926 | 1,960 | 2,114 | (154) |
| 1977 | TOTAL | 5,866 | 3,391 | 2,475 | 2,401 | 1,773 | 628 |
| 1978 | TOTAL | 6,020 | 3,473 | 2,547 | 2,338 | 2,186 | 151 |
| 1979 | TOTAL | 6,306 | 3,553 | 2,753 | 2,370 | 2,044 | 327 |
| 1980 | TOTAL | 6,297 | 3,642 | 2,655 | 1,898 | 1,911 | R(14) |
| 1981 | January | 5,795 | 3,642 | 2,152 | 37 | 558 | (521) |
| | February | 5,472 | 3,648 | 1,824 | 59 | 376 | (317) |
| | March | 5,285 | 3,654 | 1,631 | 55 | 234 | (179) |
| | April | 5,434 . | 3,670 | 1,764 | 208 | 55 | 153 |
| | May | 5,660 | 3,684 | 1,977 | 255 | 26 | 228 |
| | June | 5,933 | 3,681 | 2,252 | 314 | 27 | 287 |
| | July | R6,257 | R3,699 | R2,558 | 335 | 26 | 309 |
| | August | 6,595 | 3,713 | 2,882 | 361 | 15 | 346 |
| | September | 6,872 | 3,720 | 3,152 | 287 | 9 | 277 |
| | October | 6,974 | 3,726 | R3,248 | 155 | 50 | 104 |
| | November | R6,932 | 3,731 | R3,201 | 80 | 124 | (44) |
| | December | R6,569 | 3,752 | R2,817 | 34 | 387 | (353) |
| 1982 | January | 5,932 | 3,751 | R2,182 | 24 | R672 | (648) |
| | February | 5,536 | 3,750 | R1,787 | 50 | 446 | (396) |
| | March | R5,370 | 3,766 | R1,604 | 88 | 264 | (177) |
| | April | R5,454 | R3,778 | R1,676 | 180 | 107 | 73 |
| | May | R5,814 | 3,780 | R2,034 | 380 | 11 | 369 |
| | June July | R6,147 R6,484 | R3,778 R3,780 | R2,369 R2,704 | 350 R348 | R9 12 | 339 R336 |
| | August | R6,778 | R3,781 | R2,704 R2,998 | R329 | R34 | 295 |
| | September | R7,033 | 3,782 | 3,251 | R275 | R20 | R255 |
| | October | R7,149 | 3,785 | R3,364 | R190 | R60 | R130 |
| | November | R7,081 | R3,772 | 3,309 | R83 | R163 | (80) |
| | December | R6,879 | R3,808 | R3,071 | R85 | R288 | R(203) |
| 4000 | | • | , | | | | |
| 1983 | January | R6,457 | R3,813 | R2,644 | R25 | R452 | R(427) |
| | February March | R6,167 | R3,811 | R2,356 | R35 | R324 | R(288) |
| | March | R5,959 | 3,812 | R2,148 | R58 79 | R266 | R(208) |
| | April May | 5,877 6,026 | 3,812 | 2,065 | | R162 R35 | R(82) |
| | May June | 6,026 6,255 | 3,812 3,812 | 2,214 2,444 | R184 252 | H35 22 | 149 230 |
| | Julie | 0,233 | 3,012 | c,444 | 252 | 22 | 230 |

¹See Note 2 on the last page of this section.
²Totals as of end of period.
³Net storage injections are storage injections minus storage withdrawals. Parentheses indicate withdrawals greater than injections.
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.

Notes and Sources for the Natural Gas Section

Notes

1. Domestic consumption of natural gas includes quantities of gas delivered to consumers plus gas used for lease, plant, and pipeline fuel after natural gas liquids have been extracted. Delivered quantities include sizable amounts of supplemental gaseous fuels (synthetic natural gas, etc.) that are not quantified for 1979 and previous years. Beginning with January 1980, the amounts of supplemental gaseous fuels included in domestic consumption are provided.

Marketed production for 1979 and previous years represents gross withdrawals (full well-stream volume excluding lease condensate separated at the lease) less gas used for repressuring and quantities vented and flared. This definition includes the nonhydrocarbon gases subsequently removed. Beginning with January 1980 data, the marketed production series was expanded into two series. They both represent gross withdrawals less gas used for repressuring and quantities vented or flared. However, one series includes the nonhydrocarbon gases subsequently removed, and the other series excludes the nonhydrocarbon gases removed. For the purpose of maintaining a continuous series, those data that include the nonhydrocarbon gases subsequently removed are displayed as "Total Marketed" in this publication and the quantities of nonhydrocarbons subsequently removed are shown separately. Also for the purpose of maintaining a continuous series, the "Total Dry" displayed in this publication represents total marketed production including nonhydrocarbon gases subsequently removed less extraction loss due to removal of natural gas plant liquids.

2. The Federal Energy Administration and Federal Power Commission began the coordinated collection and compilation of monthly underground storage information from all underground storage operators in the United States in October 1975. Initial storage information reported was for the month of September 1975. Comparable monthly information for total U.S. storage

operations is not available for prior periods.

The total gas in storage is the total volume of gas (base gas plus working gas) in storage reservoirs as of the end of the month. Base gas is the volume of gas, including all native gas in place at the time of conversion to storage, needed as a permanent inventory to maintain adequate reservoir pressures and deliverability rates throughout the withdrawal season. Base gas includes the volumes that will not be recoverable upon termination of storage operations. Working gas is the volume of gas above the designated base gas level available for withdrawal.

Sources

Domestic Consumption: 1973 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Natural Gas" chapter; 1976 through 1979: Energy Information Administration (EIA), *Energy Data Report*, "Natural Gas Production and Consumption"; 1980 and 1981: EIA, *Natural Gas Annual*; January 1982 forward: EIA estimates based on a supply/disposition

Domestic Production: 1973 through 1975: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, "Natural Gas" chapter; 1976 through 1979: Energy Information Administration (EIA), Energy Data Report, "Natural Gas Production and Consumption"; 1980 and 1981: EIA, Natural Gas Annual: January 1982 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.

Domestic Producer Sales: EIA, FERC Form 11, "Natural Gas Pipeline Company Monthly Statement."

Imports: 1973 through 1982: EIA, FPC Form 14, "Imports and Exports of Natural Gas"; January 1983 forward: EIA estimates based on import data from FERC Form 11.

Exports: 1973 through 1982: EIA, FPC Form 14; January 1983 forward: EIA estimates based primarily on historical data reported on FPC Form 14.

Underground Storage: 1973 and 1974: American Gas Association, Gas Facts; 1975 through 1979: EIA, EIA Form 191 and FPC Form 8, "Underground Gas Storage Report"; 1980 forward: EIA, EIA Form 191, FPC Form 8, and Natural Gas Annual.

Oil and Gas Resource Development

The June 1983 rotary rig count of 1,979 was 31.9 percent lower than the June 1982 count of 2,908. The 202 rigs operating offshore were 18.8 percent fewer than those working in June 1982.

In June 1983, the reported total wells drilled were 6,856, a 17.4-percent decrease from the 8,300 reported for June 1982. Oil well completions reported during June 1983 were 3,514, a 9.6-percent decrease from the comparable 1982 figure of 3,888. Gas well completions of 1,237 were reported for June 1983, a 34.6-percent decrease from 1982's comparable figure of 1,891. Total reported footage for June 1983 of 28.1 million feet decreased 28.0 percent from the June 1982 figure of 39.0 million feet.

In June 1983, 471 crews were engaged in seismic exploration, 23.4 percent fewer than during June 1982. However, the June total of 471 when compared to the May total of 449 represents the largest monthly increase since August 1981, nearly 2 years earlier. The 428 land crews employed during June 1983 were 21.6 percent fewer than those reported during June 1982. The 43 marine vessels working during June 1983 were 37.7 percent fewer than those in June 1982.

Oil and Gas Resource Development

| | | Rotary Rigs in Operation ¹ | | Ex | Exploratory and Development Wells Drilled ² | | | Total Footage of Wells Drilled ² | |
|------|---|--|-------|--|--|--|--|---|--|
| | | Monthly average | | Oil | Gas | Dry | Total | Thousand feet | |
| 1973 | AVERAGE | 1,194 | TOTAL | 9,902 | 6,385 | 10,305 | 26,592 | 136,391 | |
| 1974 | AVERAGE | 1,472 | TOTAL | 12,784 | 7,240 | 11,674 | 31,698 | 150,551 | |
| 1975 | AVERAGE | 1,660 | TOTAL | 16,408 | 7,580 | 13,247 | 37,235 | 174,434 | |
| 1976 | AVERAGE | 1,658 | TOTAL | 17,059 | 9,085 | 13,621 | 39,765 | 181,780 | |
| 1977 | AVERAGE | 2,001 | TOTAL | 18,912 | 11,378 | 14,692 | 44,982 | 210,848 | |
| 1978 | AVERAGE | 2,259 | TOTAL | 17,775 | 13,064 | 16,218 | 47,057 | 227,110 | |
| 1979 | AVERAGE | 2,177 | TOTAL | 19,383 | 14,681 | 15,752 | 49,816 | 238,659 | |
| 1980 | AVERAGE | 2,909 | TOTAL | 27,026 | 15,730 | 18,089 | 60,845 | 284,461 | |
| 1981 | January February March April May June July August September October November December AVERAGE | 3,386 3,502 3,595 3,728 3,816 3,926 3,998 4,131 4,242 4,352 4,436 4,520 3,970 | TOTAL | 1,794 2,459 3,099 2,905 2,604 3,497 2,790 3,140 3,414 3,772 3,591 4,619 37,671 | 964 1,046 1,423 1,600 1,159 1,320 1,116 1,260 1,978 1,879 1,584 2,586 17,894 | 1,339 1,610 1,883 1,546 1,675 2,105 1,698 1,874 2,014 2,099 2,069 3,078 22,973 | 4,097 5,115 6,405 6,051 5,438 6,922 5,604 6,274 7,406 7,750 7,244 10,283 78,538 | 19,907 22,726 30,166 27,836 24,842 31,689 25,542 28,933 33,630 35,520 32,263 48,594 | |
| 1982 | January February March April May June July August September October November Décember AVERAGE | 4,436 4,160 3,816 3,460 3,178 2,908 2,746 2,620 2,482 2,402 2,500 2,696 3,105 | TOTAL | 2,798 3,036 3,736 3,674 3,451 R3,888 3,286 2,848 3,360 2,838 3,282 4,090 40,298 | 954 1,430 1,480 1,530 1,940 R1,891 1,705 1,575 1,592 1,220 1,662 1,966 18,953 | 2,132 2,234 2,479 2,287 2,205 R2,521 1,929 1,903 2,331 2,136 2,020 2,361 26,549 | 5,884 6,700 7,695 7,491 7,596 R8,300 6,920 6,326 7,283 6,194 6,964 8,417 85,800 | 28,167 31,985 37,896 36,439 36,987 R38,962 31,202 28,556 32,538 27,447 31,141 34,737 396,017 | |
| 1983 | January February March April May June | 2,622 2,192 2,003 1,846 1,926 1,979 | | 2,381 2,899 3,462 3,028 3,186 3,514 | 892 1,190 1,606 1,401 1,745 1,237 | 1,651 2,223 2,644 1,985 1,827 2,105 | 4,924 6,312 7,712 6,414 6,758 6,856 | 20,998 27,758 34,360 27,459 28,544 28,050 | |

¹These data are for operating rotary rigs reported by the Hughes Tool Company during the reporting period. Monthly figures are averages

of a 4- or 5-week reporting period and are not calendar months.

These data are for wells drilled reported to the American Petroleum Institute (API) during the reporting period. They exclude service wells and stratigraphic and core tests. Data reported for the first 2 months of each quarter cover 4 weeks of drilling activity, and data for the last month of the quarter cover 5 weeks of drilling activity.

R = Revised data.

Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals reflect subsequent data revisions and therefore may not agree with cumulative monthly data.
Sources: • Rotary Rigs: Hughes Tool Company, "Rotary Rigs Running—By State."
• Wells: API, "Monthly Drilling Report" and "Quarterly Review of Drilling Statistics for the United States."

Oil and Gas Resource Development

| | | Crews Engaged in Seismic Exploration | | | Line-Miles of Selsmic Exploration | | | |
|------|---------------------|---|-------------|------------------|-----------------------------------|-------------------------------------|--------------------|--|
| | | Offshore | Onshore | Total | Offshor | e ¹ Onshore ¹ | Total ¹ | |
| | | Мо | nthly avera | ge | | Annual tota | l | |
| 1973 | AVERAGE | 23 | 227 | 250 | 258,944 | 4 127,160 | 386,104 | |
| 1974 | AVERAGE | 31 | 274 | 305 | 341,784 | 158,629 | 500,413 | |
| 1975 | AVERAGE | 30 | 254 | 284 | 309,283 | 3 150,694 | 459,977 | |
| 1976 | AVERAGE | . 25 | 237 | 262 | 226,30 | 3 142,926 | 369,229 | |
| 1977 | AVERAGE | 27 | 281 | 308 | 124,670 | 120,072 | 244,748 | |
| 1978 | AVERAGE | 25 | 327 | 352 | 174,607 | Ť | 310,506 | |
| 1979 | AVERAGE | 30 | 370 | 400 | 193,212 | • | 357,141 | |
| 1980 | AVERAGE | 37 | 493 | 530 | 202,694 | ŕ | 386,782 | |
| 1981 | January | . 38 | 553 | 591 | 202,03 | 104,000 | 300,702 | |
| 1301 | February | 36 41 | 561 | 602 | | | | |
| | March | 40 | 570 | 610 | | | | |
| | April | 40 | 605 | 645 | | | | |
| | May | 42 | 619 | 661 | | | | |
| | June | 44 | 652 | 696 | | | | |
| | July | 43 | 668 | 711 | | | | |
| | August | 46 | 689 | 735 | * | | | |
| | September | 47 | 697 | 744 | | | | |
| | October | 52 | 689 | 741 | | | | |
| | November | 52 | 681 | 733 | | | | |
| | December | 47 | 656 | 703 | | | | |
| | AVERAGE | 44 | 637 | 681 ⁻ | 338,20 | 1 256,201 | 594,402 | |
| 1982 | January | 53 | 642 | 695 | | | • | |
| | February | 53 | 625 | 678 | | | | |
| | March | 52 | 597 | 649 | | | | |
| | April | 55 | 571 | 626 | | | | |
| | May | 61 | 551 | 612 | | | | |
| | June | 69 | 546 | 615 | | | | |
| | July | 66 62 | 527 500 | 593 | | | | |
| | August September | 59 | 476 | 562 535 | | | | |
| | October | 59 51 | 465 | 516 | | | | |
| | November | 50 | 452 | 502 | | | | |
| | December | 49 | 428 | 477 | | | | |
| | AVERAGE | 57 | 531 | 588 | | | | |
| 1983 | January | 49 | 407 | 456 | | | | |
| | February | 47 | 404 | 451 | | | | |
| | March | 45 | 402 | 447 | | | | |
| | April | 39 | 410 | 449 | 1 | | | |
| | May | 39 | R404 | R449 | | | | |
| | June | 43 | 428 | 471 | | | | |

^{&#}x27;Monthly data not available. R=Revised data.

Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals and averages may not equal sum of components due to independent rounding.
Sources: • Society of Exploration Geophysicists, "Monthly Seismic Crew Count" and annual reports published in their bulletins, Geophysics and Leading Edge.

Coal

Coal production in June 1983 was 63.0 million short tons, 12.0 percent less than the 71.6 million short tons produced in June 1982.

Electric utility coal consumption in May 1983 totaled 45.7 million short tons, 0.2 percent more than consumption in May 1982.

Electric utility coal stocks of 184.6 million short tons at the end of May 1983 were 7.1 million short tons (4.0 percent) above the level 1 year earlier.

Imports of coal in May 1983 totaled 102 thousand short tons, 7 thousand short tons less than the amount imported in May 1982. Exports of coal in May 1983 totaled 7.0 million short tons, 31.2 percent less than the amount exported during May 1982. Coal exports in May 1983 were principally to Europe (44.9 percent), Canada (23.2 percent), and Japan (18.5 percent).





Coal Bituminous Coal, Lignite, and Anthracite

| | | Production | Domestic Consumption | Imports¹ | Exports ² | Stocks ³ |
|------|------------------------|------------------|-------------------------|------------------|----------------------|---------------------|
| | | | Tho | usand short tons | | |
| 1973 | TOTAL | 598,568 | 562,584 | 127 | 53,587 | 104,335 |
| 1974 | TOTAL | 610,023 | 558,402 | 2,080 | 60,661 | 96,323 |
| 1975 | TOTAL | 654,641 | 562,641 | 940 | 66,309 | 128,050 |
| 1976 | TOTAL | 684,913 | 603,790 | 1,203 | 60,021 | 134,438 |
| 1977 | TOTAL | 697,205 | 625,291 | 1,647 | 54,312 | 157,098 |
| 1978 | TOTAL | 670,164 | 625,225 | 2,953 | 40,714 | 145,551 |
| 1979 | TOTAL | 781,134 | 680,524 | 2,059 | 66,042 | 181,646 |
| 1980 | TOTAL | 829,700 | 702,729 | 1,194 | 91,742 | • |
| | | • | • | • | • | 204,028 |
| 1981 | January | 65,927 | 67,580 | 35 | 5,795 | 198,603 |
| | February | 70,918 | 59,735 | 104 | 6,771 | 197,962 |
| | March | 78,266 | 60,069 | 77 | 9,710 | 207,340 |
| | April | 36,253 | 54,649 | 63 | 8,271 | 187,143 |
| | May | 38,100 | 55,025 | 96 | 6,086 | 168,126 |
| | June | 61,555 | 59,685 | 138 | . 6,158 | 158,274 |
| | July | 74,076 | 67,394 | 13 | 10,762 | 154,423 |
| | August | 78,782 | 65,896 | 150 | 11,315 | 157,141 |
| | September | 81,720 85 044 | 59,722 50,161 | 69 • 94 | 11,900 | 164,970 |
| | October November | 85,241 76.577 | 59,161 58,695 | 76 | 12,360 | 175,384 |
| | December | 76,377 76,360 | 65,017 | 76 127 | 11,849 | 183,044 |
| | | | | _ | 11,564 | 185,274 |
| | TOTAL | 823,775 | 732,627 | 1,043 | 112,541 | |
| 1982 | January† | 66,796 | 68,692 | 71 | 6,177 | 173,931 |
| | February† | 70,725 | 59,746 | 30 | 8,964 | 173,193 |
| | March† | 83,391 | 58,236 | 12 | 10,423 | R179,484 |
| | April† | 73,429 | 53,274 | 10 | 10,831 | 186,458 |
| | May† | 70,985 | 54,844 | 109 | 10,110 | 192,926 |
| | June† | 71,550 | 55,950 | 9 | 10,680 | R198,377 |
| | July† | 60,181 | 63,828 | 69 | 9,182 | 189,997 |
| | August† | 72,461 | 63,528 | 131 | 7,385 | 190,310 |
| | September† | 67,543 | 56,734 | 71 | 8,683 | 189,967 |
| | October† | 70,446 | 55,034 56,931 | 66 97 | 9,972 | 195,107 |
| | November† December† | 63,381 62,521 | 56,831 60,214 | 87 76 | 7,807 6,064 | 196,700 |
| | • | • | • | | • | 195,254 |
| | TOTAL | 833,409 | 706,911 | 742 | 106,277 | |
| 1983 | January† | 62,103 | 63,118 | 78 | 4,471 | R191,130 |
| | February† | 60 487 | 54,573 | 71 | 4,382 | 190,782 |
| | March† | 68,462 | . 55,364 | 120 | 6,291 | 191,530 |
| | April† | 60,336 | NA | 144 | 6,115 | NA |
| | May† | 62,786 | NA | 102 | 6,952 | NA |
| | June† | 62,988 | NA | NA | NA | NA |

¹Bituminous coal was the only type of coal imported during the years shown above.

²Excludes shipments of anthracite to U.S. Armed Forces overseas (335,000 short tons in 1982).

³Stocks held by electric utilities, coke plants, and general industry at the end of period. Excludes stocks at retail dealers that are consumed by the residential and commercial sector.

†Preliminary data. R = Revised data. NA = Not available.

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

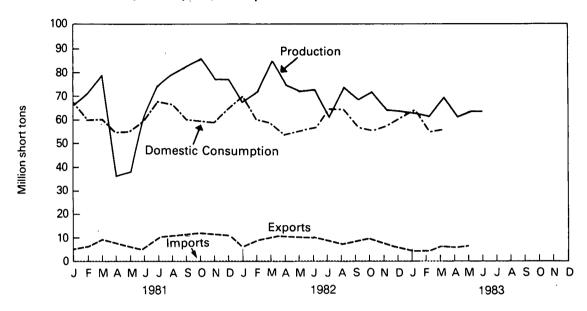
• Totale may not could sum of components due to independent rounding.

<sup>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.</sup>

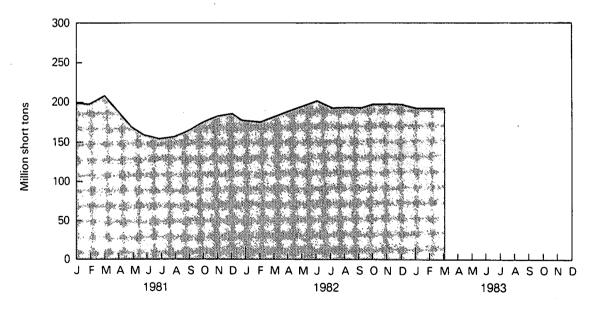
Coal

Bituminous Coal, Lignite, and Anthracite

Production, Consumption, Imports, and Exports



Stocks



Coal Consumption—Bituminous Coal, Lignite, and Anthracite

Industrial

| | | | niadotria: | | | |
|------|---------------|-----------------------|-----------------------------|---|----------------------------------|------------------|
| | | Electric Utilities | Coke Plants ¹ | Other Industrial ² Including Transportation | Residential and Commercial | Total |
| | | | | Thousand short tons | 5 | |
| 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 | January | 54,688 | 5,465 | 6,532 | 895 | 67,580 |
| | February | 47,914 | 5,177 | 5,932 | 712 | 59,735 |
| | March | 48,398 | 5,532 | 5,665 | 474 | 60,069 |
| | April | 43,677 | 4,862 | 5,548 | 562 | 54,649 |
| | Мау | 44,999 | 4,259 | 5,297 | 470 | 55,025 |
| | June | 50,080 | 4,460 | 4,845 | 300 | 59,685 |
| | July | 56,144 | 5,449 | 5,371 | 430 | 67,394 |
| | August | 54,483 | 5,434 | 5,520 | 459 | 65,896 |
| | September | 48,483 | 5,340 | 5,312 | 587 | 59,722 |
| | October | 47,800 | 5,158 | 5,577 | 626 | 59,161 |
| | November | 47,014 | 5,037 | 5,793 | 851 | 58,695 |
| | December | 53,116 | 4,842 | 6,003 | 1,056 | 65,017 |
| | TOTAL | 596,797 | 61,014 | 67,395 | 7,421 | 732,627 |
| 1982 | January† | 56,825 | 4,444 | 6,430 | 993 | 68,692 |
| | February† | 48,878 | 4,340 | 5,835 | 693 | 59,746 |
| | March† | 47,884 | 4,173 | 5,616 | 563 | 58,236 |
| | April† | 43,490 | 3,708 | 5,373 5,100 | 703 | 53,274 |
| | May† June† | 45,622 47,424 | 3,622 3,481 | 5,133 4,681 | 467 364 | 54,844 55,950 |
| | July† | 55,248 | 3,461 | 4,831 | 628 | 63,828 |
| | August† | 54,838 | 3,058 | 4,962 | 670 | 63,528 |
| | September† | 48,414 | 2,924 | 4,759 | 637 | 56,734 |
| | October† | 46,330 | 2,757 | 5,287 | 660 | 55,034 |
| | Novembert | 47,799 | 2,693 | 5,494 | 845 | 56,831 |
| | Decembert | 50,914 | 2,587 | 5,695 | 1,018 | 60,214 |
| | TOTAL | 593,666 | 40,908 | 64,097 | 8,240 | 706,911 |
| 1983 | January† | 53,351 | 2,813 | 5,963 | 990 | 63,118 |
| | February† | 45,772 | 2,742 | 5,399 | 660 | 54,573 |
| | March† | 47,039 | 2,567 | 5,200 | 557 | 55,364 |
| | April† | 43,589 | NA | NA | NA | NA |
| | May† | 45,691 | NA | NA | NA | NA |

¹Bituminous coal and anthracite only. Lignite is not used at coke plants.

²See Note on the last page of this section.

†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 Stocks1—Bituminous Coal, Lignite, and Anthracite

| | | | Industrial | | |
|------|---------------------------------------|--|------------------------------------|--------------------------------------|--|
| | | Electric Utilities | Coke Plants² | Other Industrial | Total ³ |
| | | | Thousand | d short tons | |
| 1973 | | 86,967 | 6,998 | 10,370 | 104,335 |
| 1974 | | 83,509 | 6,209 | 6,605 | 96,323 |
| 1975 | | 110,724 | 8,797 | 8,529 | 128,050 |
| 1976 | • | 117,436 | 9,902 | 7,100 | 134,438 |
| 1977 | | 133,219 | 12,816 | 11,063 | 157,098 |
| 1978 | | 128,225 | 8,278 | 9,048 | 145,551 |
| 1979 | | 159,714 | 10,155 | 11,777 | 181,646 |
| 1980 | | 183,010 | 9,067 | 11,951 | 204,028 |
| 1981 | January February March April | 176,975 175,715 183,983 169,221 | 9,634 10,211 10,788 6,952 | 11,994 12,036 12,569 10,970 | 198,603 197,962 207,340 187,143 |
| | May June | 153,415 144,520 | 4,850 4,500 | 9,861 9,254 | 168,126 158,274 |
| | July | 140,124 | 5,074 | 9,225 | 154,423 |
| | August | 142,318 | 5,648 | 9,175 | 157,141 |
| | September October | 149,526 159.676 | 6,163 6,308 | 9,281 9,400 | 164,970 175,384 |
| | November | 167,002 | 6,392 | 9.650 | 183,044 |
| | December | 168,893 | 6,475 | 9,906 | 185,274 |
| 1982 | January† | 158,469 | 6,207 | 9,255 | 173,931 |
| | February† | 158,136 164,518 | 5,909 5,612 | 9,148 9,354 | 173,193 179,484 |
| | March† April† | 171,390 | 5,931 | 9,137 | 186,458 |
| | May† | 177,461 | 6,231 | 9,234 | 192,926 |
| | Junet | 182,513 | 6,532 | 9,331 | 198,377 |
| | July† | 174,503 | 6,166 | 9,328 | 189,997 |
| | August† | 175,194 | 5,800 | 9,316 | 190,310 |
| | September† | 175,225 | 5,434 | 9,308 | 189,967 |
| | October† | 180,571 | 5,171 | 9,365 | 195,107 |
| | November† December† | 182,368 181,132 | 4,908 4,642 | 9,424 9,479 | 196,700 195,254 |
| 1983 | January† | 177,832 | 4,338 | 8,960 | 191,130 |
| | February† | 178,310 | 4,034 | 8,439 | 190,782 |
| | March† | 179,883 | 3,728 | 7,919 | 191,530 |
| | April† | 181,371 | NA | NA | NA |
| | May† | 184,567 | NA | NA | NA |

1---

¹Stocks held by electric utilities; coke plants, and general industry at end of period.
²Bituminous coal and anthracite only. Lignite is not used at coke plants.
³Total excludes stocks at retail dealers that are consumed 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

Preliminary estimates of monthly coal production are based on the number of railcars loaded at mines as reported weekly to the Association of American Railroads and the average coal tonnage carried per railcar as reported quarterly to the Interstate Commerce Commission by Class 1 railroads. The amount of coal production shipped by rail (estimated for each railroad by multiplying the number of railcars of coal loaded by the average coal tonnage carried per railcar) is multiplied by the ratio of total production as reported on Form EIA-6, "Coal Distribution Report," to production shipped by rail for the corresponding quarter of the previous year to arrive at the monthly coal production estimate. Final monthly and annual coal production data are derived from the Form EIA-6 and State coal production reports.

Domestic coal consumption data in this series approximate actual consumption. Coal consumption at electric utility plants is derived directly from Form EIA-759, "Monthly Power Plant Report." Prior to 1980, monthly coal consumption at coke plants was derived directly from Form EIA-5, "Coke and Coal Chemicals Monthly." For 1980 and subsequent years, monthly coal consumption at coke plants is derived from the quarterly coal consumption reported on Form EIA-5, "Coke Plant Report— Quarterly." These quarterly coal consumption figures are converted to monthly coal consumption figures using the ratios of monthly to quarterly consumption in 1979, the last year that coke plant data was collected monthly on Form EIA-5. These ratios by month (January-December) are: 0.3377, 0.3200, 0.3423; 0.3529, 0.3462, 0.3009; 0.3364, 0.3347, 0.3289; and 0.3273, 0.3301, 0.3426,

Prior to 1978, coal consumption for the "Other Industrial" sector (i.e. industrial users minus coke plants) was derived by using monthly data reported on Form EIA-3, "Monthly Fuel Consumption Report-Manufacturing Plants" to modify baseline coal consumption figures from the most recent Census of Manufacturers or Annual Survey of Manufacturers, Bureau of the Census, U.S. Department of Commerce. For 1978 and subsequent years, the data sources used to compute monthly coal consumption for the "Other Industrial" sector are:

- (a) Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants." (b) Form EIA-6, "Coal Distribution Report." (Quarterly)

The basic assumption used in deriving a quarterly estimate for coal consumption for the "Other Industrial" sector is that consumption is equal to beginning stocks plus receipts minus ending stocks. In terms of an equation, consumption can be expressed as

$$C = S_b + R - S_e \tag{1}$$

where S_b = beginning stocks

R = receipts

 $S_e = ending stocks.$

The change in stocks $(S_h - S_e)$ can be denoted by D S. From equation (1), consumption is

$$C = DS + R. (2)$$

Form EIA-6 provides complete coverage of the "Other Industrial" sector. The quarterly receipts (R) are equated to the coal distribution to the "Other Industrial" sector as reported on Form EIA-6. Form EIA-3 provides almost total coverage of the stock change for the "Other Industrial" sector and hence D S is equated to this figure.

Given the estimated quarterly consumption for the "Other Industrial" sector (C), the monthly consumption for the sector (C_m) can be estimated for each month in the guarter as

$$C_{m} = (C_{m3}/C_3) \times C \tag{3}$$

where C_{m3}/C₃ is the ratio of monthly to quarterly coal consumption as reported on Form EIA-3. For the 1978 coal consumption figures, the ratios used are based on 1978 EIA-3 data. For 1979 and subsequent years, the ratios used are based on the 1979 EIA-3 data. These 1979 ratios by month (January-December) are: 0.3593, 0.3264, 0.3143; 0.3485, 0.3332, 0.3183; 0.3317, 0.3407. 0.3276; and 0.3045, 0.3253, 0.3702.

For 1980 and subsequent years, quarterly coal consumption in the residential and commercial sector is equated to the quarterly coal distribution to that sector as reported on Form EIA-6, "Coal Distribution Report." These quarterly coal consumption figures are converted to monthly coal consumption figures using the ratios of monthly to quarterly coal deliveries to this sector in 1979 as reported on Form EIA-2, "Monthly Coal Report—Retail Dealers and Upper Lake Docks." These 1979 ratios by month (January-December) are: 0.4002, 0.3502, 0.2496; 0.4805, 0.2901, 0.2294; 0.3126, 0.2952, 0.3922; and 0.2931, 0.3101, 0.3968.

Prior to 1980, monthly coal consumption for the residential and commercial sector was derived by using monthly data reported on Form EIA-2 to modify baseline coal consumption figures developed by the Bureau of Mines, U.S. Department of the Interior.

Production: 1973 through September 1977: Bureau of Mines, Minerals Yearbook and Mineral Industry Surveys; October 1977 forward: Energy Information Administration (EIA), "Weekly Coal Production Report" from selected State agencies and EIA Form 6, "Coal Distribution Report,"

Consumption and Stocks: 1973 through September 1977: Bureau of Mines, Minerals Yearbook and Mineral Industry Surveys;

- Electric Utilities—October 1977 forward: 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."

Imports/Exports: 1973 through September 1977: Bureau of Mines, Minerals Yearbook and Mineral Industry Surveys; October 1977 forward: Bureau of the Census, Monthly Reports IM-145 (Imports) and EM-522 (Exports).

May 1983 production of electricity by utilities was 174.4 billion kilowatt-hours, 1.5 percent lower than the May 1982 production level. Coal-fired production totaled 91.3 billion kilowatt-hours, 1.8 percent lower than the May 1982 level. Hydroelectric production totaled 31.2 billion kilowatt-hours, 11.5 percent above the May 1982 level. Nuclear production was 22.1 billion kilowatt-hours in May 1983, 2.0 percent above the May 1982 level. Natural gas-fired production was 20.4 billion kilowatt-hours, 15.8 percent below the level 1 year earlier. Petroleum-fired production totaled 9.1 billion kilowatt-hours, 8.3 percent below the May 1982 level.

Sales of electricity to all ultimate consumers in the United States in May 1983 were 158.8 billion kilowatt-hours, 0.3 percent above May 1982 sales. Sales to residential consumers during May 1983 were 49.6 billion kilowatthours, 1.2 percent above the level of sales for the same month in 1982. Commercial sales were 40.3 billion kilowatt-hours, 0.8 percent more than the amount sold to commercial consumers in May 1982. Sales to industrial consumers totaled 62.7 billion kilowatt-hours in May 1983, 0.4 percent more than the 1982 figure. In May 1983, other sales totaled 6.2 billion kilowatt-hours, 10.6 percent below the May 1982 level.

Electric utility petroleum consumption (excluding petroleum coke) during May 1983 was 15.3 million barrels, a 9.6-percent drop from the May 1982 level. Coal consumption for May 1983 was 45.7 million short tons, 0.2 percent above the May 1982 rate. During May 1983, consumption of natural gas by electric utilities was 218.2 billion cubic feet, 15.4 percent below the May 1982 consumption level.

On May 31, 1983, utility stocks of anthracite, bituminous coal, and lignite totaled 184.6 million short tons. Stockpiles were 4.0 percent above the level of May 1982. Petroleum stocks (excluding petroleum coke) on May 31, 1983, totaled 103.7 million barrels, 14.5 percent below the level on the same date in 1982.

=

Net Electricity Generation by Primary Energy Source

| | | Coal ¹ | Petroleum ² | Natural Gas | Nuclear | Hydro | Other ³ | Total |
|------|---|--|--|--|--|--|--|--|
| | | | | Mill | ion kilowatt-hoi | urs | | |
| 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 | January February March April May June July August September October November December | 111,765 97,653 99,482 88,109 88,941 99,837 112,854 108,403 97,664 97,046 94,841 106,608 1,203,203 | 25,963 17,444 16,957 15,106 14,508 18,972 20,072 16,001 15,566 16,213 13,847 15,772 | 22,081 21,339 25,997 27,460 30,070 35,885 38,712 36,918 30,850 28,917 24,670 22,877 345,777 | 23,779 21,595 22,004 20,646 19,723 21,166 23,080 26,946 24,398 20,556 22,783 25,997 | 22,338 21,099 20,572 20,723 24,081 26,370 25,133 21,615 17,822 18,088 18,963 23,879 260,684 | 540 483 541 500 483 473 523 520 538 531 465 457 6,054 | 206,467 179,613 185,553 172,545 177,806 202,702 220,373 210,403 186,838 181,352 175,570 195,590 2,294,812 |
| 1982 | January February March April May June July August September October November December | 113,124 96,906 97,625 88,116 92,997 95,314 110,617 110,124 96,896 93,769 95,547 100,970 1,192,004 | 20,674 15,217 13,495 11,192 9,868 10,419 13,380 11,753 10,363 9,885 9,313 11,238 146,797 | 22,621 20,920 23,598 23,231 24,291 27,959 33,340 34,418 27,649 25,804 21,466 19,963 305,260 | 25,678 20,188 22,755 21,785 21,639 24,026 25,467 24,986 25,391 23,248 23,235 24,376 282,773 | 26,896 26,690 29,885 27,928 27,971 27,953 27,294 23,894 19,896 19,750 23,297 27,760 309,213 | 411 380 330 328 381 458 485 480 468 509 520 415 5,164 | 209,403 180,299 187,687 172,580 177,147 186,128 210,584 205,656 180,662 172,966 173,377 184,722 2,241,211 |
| 1983 | January February March April May | 108,164 92,692 95,598 88,114 91,296 | 12,881 12,586 12,557 10,337 9,050 | 19,720 16,659 19,686 19,174 20,444 | 25,090 22,204 23,897 22,352 22,064 | 29,318 27,950 30,302 29,988 31,193 | 506 395 455 424 356 | 195,680 172,485 182,494 170,389 174,403 |

Includes bituminous coal, lignite, and anthracite.
Includes fuel oil No. 2, No. 4, No. 5, No. 6, crude oil, kerosene, and petroleum coke.
Includes geothermal and wood and waste.
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."

Electricity Sales¹

| | | Residential | Commercial | Industrial | Other ² | Total |
|------|-----------|-------------|------------|------------------|--------------------|-----------|
| | | | Millio | n kilowatt-hours | 3 | |
| 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 | 73,772 | |
| | | • | ŕ | 615,007 | • | 2,094,449 |
| 1981 | January | 74,087 | 43,229 | 67,076 | 7,557 | 191,949 |
| | February | 66,359 | 41,345 | 67,411 | 7,092 | 182,207 |
| | March | 57,660 | 39,541 | 68,590 | 7,035 | 172,826 |
| | April | 50,914 | 37,910 | 68,138 | 6,562 | 163,525 |
| | May | 48,348 | 39,331 | 68,714 | 6,780 | 163,173 |
| | June | 56,165 | 44,244 | 71,641 | 6,777 | 178,827 |
| | July | 69,990 | 48,989 | 71,712 | 7,124 | 197,814 |
| | August | 70,299 | 49,003 | 72,010 | 7,147 | 198,459 |
| | September | 61,098 | 46,977 | 71,011 | 7,164 | 186,250 |
| | October | 52,989 | 42,183 | 69,154 | 7,024 | 171,350 |
| | November | 51,965 | 39,747 | 66,161 | 7,143 | 165,016 |
| | December | 62,391 | 41,839 | 64,124 | 7,351 | 175,705 |
| | TOTAL | 722,265 | 514,338 | 825,742 | 84,756 | 2,147,101 |
| 1982 | January | 76,193 | 44,866 | 62,928 | 7,894 | 191,881 |
| | February | 69,070 | 43,389 | 62,767 | 7,409 | 182,634 |
| | March | 60,441 | 41,635 | 64,484 | 7,221 | 173,780 |
| | April | 54,868 | 39,968 | 62,711 | 6,804 | 164,352 |
| | May | R49,044 | R39,955 | R62,469 | R6,947 | R158,415 |
| | June | 54,083 | 44,206 | 63,684 | 6,766 | 168,739 |
| | July | 65,704 | 48,211 | 62,617 | 7,035 | 183,567 |
| | August | 69,906 | 49,720 | 63,306 | 6,808 | 189,740 |
| | September | 63,053 | 48,068 | 59,980 | 7,194 | 178,296 |
| | October | 52,638 | 42,864 | 60,830 | 7,084 | 163,416 |
| | November | 52,136 | 40,572 | 60,651 | 7,122 | 160,479 |
| | December | 62,102 | 42,584 | 58,464 | 7,128 | 170,278 |
| | TOTAL | 729,451 | 526,317 | 744,937 | 85,539 | 2,086,241 |
| 1983 | January | 69,929 | 44,011 | 57,931 | 7,251 | 179,122 |
| | February | 65,094 | 42,495 | 59,085 | 6,922 | 173,596 |
| | March | 59,003 | 41,589 | 60,267 | 6,902 | 167,761 |
| | April | 56,314 | 40,689 | 60,565 | 6,297 | 163,865 |
| | May† | 49,648 | 40,273 | 62,697 | 6,214 | 158,832 |

¹Electricity sales to all ultimate consumers.

²Includes street lighting and transportation uses.
†Preliminary data.

R = Revised data. For further explanation of factors used in revising data, see the Technical Notes section of the Energy Information Administration (EIA), *Electric Power Monthly.*Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.

Sources: • 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: EIA Form 826, "Electric Utility Company Monthly Statement."

Primary Energy Consumed to Produce Electricity

| | | | Coal | | | Petroleum | | | | Natural Gas - |
|------|-------------------|--------------------|--------------------------|------------------------|--------------------------|--------------------------|------------------------|--------------------------|---------------------|-----------------------------|
| | | Anthracite | Bituminous Coal | Lignite | Total | Heavy¹ | Light ² | Total Liquids | Petroleum Coke | |
| | | • | Thousand sh | ort tons | | · The | ousand barr | els | Thousand short tons | Million cubic feet |
| 1973 | TOTAL | 1,443 | 376,975 | 10,794 | 389,212 | (3) | (3) | 560,248 | 507 | 3,660,172 |
| 1974 | TOTAL | 1,498 | 378,643 | 11,670 | 391,811 | (3) | (3) | 536,274 | 625 | 3,443,428 |
| 1975 | TOTAL | 1,480 | 388,523 | 15,960 | 405,962 | (3) | (3) | 506,128 | 70 | 3,157,669 |
| 1976 | TOTAL | 1,350 | 425,205 | 21,817 | 448,371 | (3) | (3) | 555,920 | 68 | 3,080,868 |
| 1977 | TOTAL | 1,425 | 451,051 | 24,650 | 477,126 | (3) | (3) | 623,705 | 98 | 3,191,200 |
| 1978 | TOTAL | 1,064 | 448,763 | 31,407 | 481,235 | (3) | (3) | 635,839 | 398 | 3,188,363 |
| 1979 | TOTAL | 1,046 | 488,129 | 37,876 | 527,051 | (3) | (3) | 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 | January | 81 | 50,635 | 3,972 | 54,688 | 40,885 | 3,047 | 43,931 | 10 | 231,606 |
| | February | 58 | 44,583 | 3,272 | 47,914 | 27,755 | 2,242 | 29,997 | 9 | 224,003 |
| | March | 75 | 45,168 | 3,155 | 48,398 | 27,862 | 1,405 | 29,267 | 9 | 273,431 |
| | April | 73 | 40,535 | 3,069 | 43,677 | 24,229 | 1,356 | 25,585 | 7 | 289,053 |
| | May | 91 | 41,405 | 3,503 | 44,999 | 23,130 | 1,795 | 24,925 | 14 | 316,310 |
| | June | 105 | 46,503 | 3,471 | 50,080 | 29,699 | 2,705 | 32,404 | 13 | 380,775 |
| | July | 102 | 51,705 | 4,337 | 56,144 | 31,628 | 2,615 | 34,243 | 11 | 410,666 |
| | August | 133 | 50,010 | 4,339 | 54,483 | 25,760 | 1,422 | 27,182 | 13 | 389,564 |
| | September | 98 | 44,557 | 3,828 | 48,483 | 25,137 | 1,145 | 26,282 | 13 | 324,828 |
| | October | 115 | 44,161 | 3,524 | 47,800 | 26,078 | 1,123 | 27,201 | 15 | 301,670 |
| | November | 141 | 43,032 | 3,841 | 47,014 | 22,042 | 1,139 | 23,181 | 12 | 258,811 |
| | December | 148 | 48,487 | 4,481 | 53,116 | 25,593 | 1,319 | 26,912 | 12 | 239,436 |
| | TOTAL | 1,221 | 550,784 | 44,792 | 596,797 | 329,798 | 21,313 | 351,111 | 139 | 3,640,154 |
| 1982 | January | 89 | 52,014 | 4,723 | 56,825 | 32,269 | 3,131 | 35,399 | 10 | 237,675 |
| | February | 83 | 44,478 | 4,317 | 48,878 | 24,351 | 1,421 | 25,772 | | 220,032 |
| | March | 73 | 43,751 | 4,060 | 47,884 | 21,617 | 1,304 | 22,921 | 4 | 246,550 |
| | April | 88 | 39,888 | 3,515 | 43,490 | 17,913 | 1,132 | 19,045 | 11 | 246,344 |
| | May | 98 | 41,845 | 3,678 | 45,622 | 15,939 | 991 | 16,930 | 12 | 257,848 |
| | June | 94 | 43,340 | 3,990 | 47,424 | 16,539 | 1,053 | 17,592 | 13 | 295,557 |
| | July | 108 | 50,769 | 4,371 | 55,248 | 21,550 | 1,360 | 22,910 | 11 | 352,818 |
| | August | 95 | 50,283 | 4,460 | 54,838 | 18,873 | 1,053 | 19,926 | 13 | 361,351 |
| | September | 67 | 44,431 | 3,916 | 48,414 | 16,544 | 921 | 17,464 | 9 | 293,232 |
| | October | 81 | 42,598 | 3,650 | 46,330 | 15,990 | 870 | 16,860 | 17 | 273,003 |
| | November | 100 | 43,756 | 3,943 | 47,799 | 14,908 | 1,007 | 15,916 | | 226,477 |
| | December TOTAL | 99 1,075 | 46,192 543,346 | 4,622 49,245 | 50,914 593,666 | 17,940 234,434 | 1,094 15,337 | 19,035 249,771 | 22 149 | 214,630 3,225,518 |
| 1983 | | 73 | 48.695 | 49,245 | 53,351 | 20,728 | • | 249,771 | | 208,337 |
| 1363 | January | 73 73 | 48,695 41,668 | 4,583 | 45,772 | 20,728 | 1,122 996 | 21,850 | 17 | 208,33 <i>7</i> 176,965 |
| | February March | 75 75 | 43,095 | 3,870 | 47,039 | 20,303 | 957 | 21,131 | 16 | 208,010 |
| | April | 75 92 | 39,716 | 3,781 | 43,589 | 16,374 | 1,066 | 17,440 | | 202,919 |
| | May | 104 | 41,002 | 4,585 | 45,691 | 14,360 | 949 | 15,309 | | 218,186 |
| | ···ay | 104 | 41,002 | 7,505 | 40,001 | 14,000 | 5-75 | 10,000 | 50 | 210,100 |

Natural

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 consumption data were not disaggregated by type of fuel. Disaggregation by prime mover type is provided in the last table of this section.

the last table of this section.

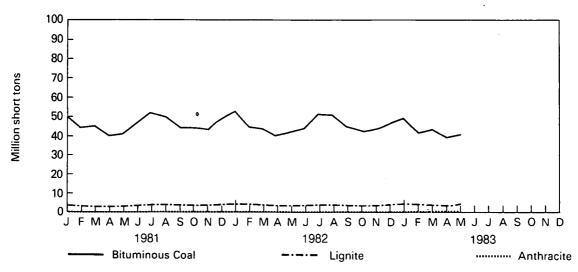
Notes: • Geographic coverage is the 50 States and the District of Columbia.

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

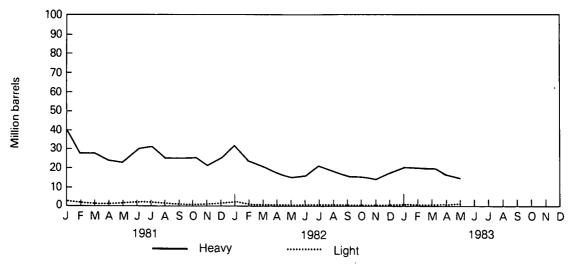
Sources: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

Primary Energy Consumed to Produce Electricity

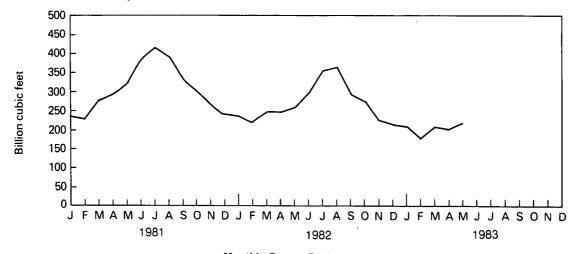
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



Monthly Energy Review Energy Information Administration

Coal and Petroleum Stocks at End of Period

| | | | Co | al | | | Petro | eum | | | | |
|------|---------------------|----------------|--------------------|----------------|--------------------|--------------------|--------------------|--------------------|---------------------|--|--|--|
| | | Anthracite | Bituminous Coal | Lignite | Total | Heavy [,] | Light ² | Total Liquids | Petroleum Coke | | | |
| | | | Thousand sh | ort tons | | Th | ousand barre | ls | Thousand short tons | | | |
| 1973 | | 1,066 | 84,941 | 961 | 86,967 | (3) | (3) | 89,216 | 312 | | | |
| 1974 | | 930 | 81,712 | 867 | 83,509 | (3) | (3) | 112,917 | 35 | | | |
| 1975 | | 982 | 107,927 | 1,815 | 110,724 | • (³) | (³) | 125,257 | 31 | | | |
| 1976 | | 1,000 | 114,130 | 2,306 | 117,436 | (3) | (³) | 121,696 | 32 | | | |
| 1977 | | 2,321 | 128,210 | 2,688 | 133,219 | (3) | (3) | 144,031 | 44 | | | |
| 1978 | | 2,178 | 123,020 | 3,027 | 128,225 | (3) | (3) | 118,788 | 198 | | | |
| 1979 | | 3,274 | 152,981 | 3,459 | 159,714 | (³) | (3) | 131,422 | 183 | | | |
| 1980 | | 4,741 | 174,154 | 4,115 | 183,010 | 105,351 | 30,023 | 135,374 | 52 | | | |
| 1981 | January | 4,824 | 167.884 | 4,267 | 176,975 | 99,196 | 29,535 | 128,732 | 51 | | | |
| 1001 | February | 4,859 | 166,552 | 4,304 | 175,715 | 101,867 | 28,328 | 130,195 | 52 | | | |
| | March | 4,951 | 174,554 | 4,478 | 183,983 | 100,178 | 28,732 | 128,911 | 52 | | | |
| | April | 5,035 | 159,645 | 4,541 | 169,221 | 97,629 | 29,024 | 126,652 | 51 | | | |
| | May | 5,008 | 143,500 | 4,907 | 153,415 | 101,574 | 27,671 | 129,245 | 52 | | | |
| | June | 5,081 | 134,321 | 5,119 | 144,520 | 99,398 | 28,547 | 127,945 | 49 | | | |
| | July | 5,269 | 129,684 | 5,171 | 140,124 | 99,603 | 27,729 | 127,332 | 48 | | | |
| | August | 5,337 | 132,072 | 4,909 | 142,318 | 103,104 | 27,714 | 130,817 | 47 | | | |
| | September | 5,428 | 138,808 | 5,290 | 149,526 | 102,104 | 27,403 | 129,506 | 46 | | | |
| | October | 5,512 | 148,952 | 5,213 | 159,676 | 100,008 | 27,055 | 127,063 | 44 | | | |
| | November | 5,548 | 156,360 | 5,094 | 167,002 | 100,301 | 26,715 | 127,016 | 43 | | | |
| | December | 5,537 | 158,258 | 5,098 | 168,893 | 102,042 | 26,094 | 128,136 | 42 | | | |
| 1982 | January | 5,437 | 148,404 | 4,628 | 158,469 | 94,609 | 26,162 | 120,771 | 39 | | | |
| | February | 5,401 | 148,118 | 4,617 | 158,136 | 92,622 | 25,418 | 118,040 | 40 | | | |
| | March | 5,488 | 154,724 | 4,305 | 164,518 | 97,706 | 25,136 | 122,842 | 43 | | | |
| | April | 5,542 | 161,720 | 4,128 | 171,390 | 95,984 | 24,636 | 120,620 | 42 | | | |
| | May | 5,569 | 167,805 | 4,088 | 177,461 | 96,607 | 24,796 | 121,403 122,606 | 41 43 | | | |
| | June | 5,603 | 172,819 | 4,092 | 182,513 | 97,959 96,085 | 24,647 25,008 | 121,093 | 43 | | | |
| | July | 5,658 5,791 | 164,688 165,182 | 4,157 4,221 | 174,503 175,194 | 96,345 | 24,193 | 120,538 | 42 | | | |
| | August September | 5,791 | 165,065 | 4,264 | 175,194 | 98,160 | 24,225 | 122,385 | 47 | | | |
| | October | 5,992 | 170,281 | 4,298 | 180,571 | 96,920 | 23,595 | 120,515 | 36 | | | |
| | November | 6,060 | 171,832 | 4,476 | 182,368 | 96,618 | 23,553 | 120,171 | 42 | | | |
| | December | 6,080 | 170,480 | 4,573 | 181,132 | 95,515 | 23,369 | 118,884 | 41 | | | |
| 1983 | January | 6,107 | 167,515 | 4,210 | 177,832 | 91,474 | 23,942 | 115,416 | 54 | | | |
| | February | 6,104 | 167,843 | 4,362 | 178,310 | 85,847 | 23,438 | 109,284 | 53 | | | |
| | March | 6,143 | 169,538 | 4,201 | 179,883 | 81,632 | 23,199 | 104,831 | 54 | | | |
| | April | 6,120 | 170,815 | 4,436 | 181,371 | 81,243 | 22,084 | 103,327 | 47 | | | |
| | May | 6,145 | 173,969 | 4,453 | 184,567 | 82,007 | 21,742 | 103,749 | 44 | | | |

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.

table of this section.

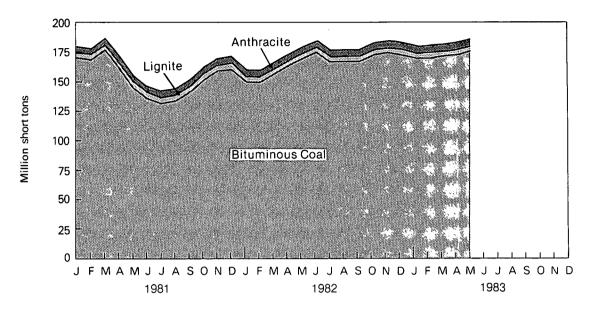
Notes: • Geographic coverage is the 50 States and the District of Columbia.

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

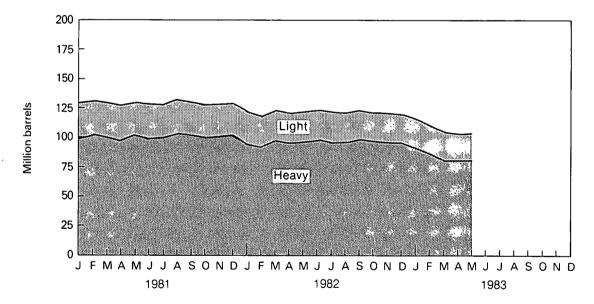
Sources: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

Coal and Petroleum Stocks at End of Period

Coal Stocks (Bituminous Coal, Lignite, and Anthracite)



Petroleum Stocks



Petroleum Consumption and Stocks by Prime Mover Type

| | | Petr | oleum Consum | ption | Petroleum Stocks at End of Period | | | | |
|------|---|---|--|---|--|--|--|--|--|
| | | Steam Plants | GT/IC¹ | Total Liquids | Steam Plants | GT/IC¹ | Total Liquids | | |
| | | | | Thousa | nd barrels | | | | |
| 1973 | TOTAL | 513,190 | 47,058 | 560,248 | 79,121 | 10,095 | 89,216 | | |
| 1974 | TOTAL | 483,146 | 53,128 | 536,274 | 97,718 | 15,199 | 112,917 | | |
| 1975 | TOTAL | 467,221 | 38,907 | 506,128 | 108,825 | 16,432 | 125,257 | | |
| 1976 | TOTAL | 514,077 | 41,843 | 555,920 | 106,993 | 14,703 | 121,696 | | |
| 1977 | TOTAL | 574,869 | 48,837 | 623,705 | 124,750 | 19,281 | 144,031 | | |
| 1978 | TOTAL | 588,319 | 47,520 | 635,839 | 102,402 | 16,386 | 118,788 | | |
| 1979 | TOTAL | 492,606 | 30,691 | 523,297 | 111,121 | 20,301 | 131,422 | | |
| 1980 | TOTAL | 401,863 | 18,351 | 420,214 | 117,227 | 18,147 | 135,374 | | |
| 1981 | January February March April May June July August September | 41,904 28,948 28,492 25,028 23,958 30,673 32,577 26,598 25,762 | 2,027 1,049 775 557 967 1,731 1,666 584 | 43,931 29,997 29,267 25,585 24,925 32,404 34,243 27,182 26,282 | 110,533 112,879 111,490 109,455 112,172 109,988 110,476 114,016 112,992 | 18,199 17,315 17,421 17,197 17,073 17,957 16,856 16,801 16,515 | 128,732 130,195 128,911 126,652 129,245 127,945 127,332 130,817 129,506 | | |
| | October November December TOTAL | 26,646 22,749 26,345 339,680 | 556 432 567 11,431 | 27,201 23,181 26,912 351,111 | 110,900 110,939 112,380 | 16,164 16,077 15,756 | 127,063 127,016 128,136 | | |
| 1982 | January February March April May June July August September October November December | 33,832 25,249 22,371 18,553 16,614 17,241 22,192 19,508 17,146 16,547 15,591 18,694 243,537 | 1,567 524 550 492 316 351 718 418 318 313 325 341 6,234 | 35,399 25,772 22,921 19,045 16,930 17,592 22,910 19,926 17,464 16,860 15,916 19,035 249,771 | 105,475 102,883 108,142 106,143 106,701 108,189 106,170 106,438 108,177 106,701 106,361 105,287 | 15,296 15,157 14,699 14,477 14,702 14,417 14,923 14,100 14,208 13,813 13,809 13,597 | 120,771 118,040 122,842 120,620 121,403 122,606 121,093 120,538 122,385 120,515 120,171 118,884 | | |
| 1983 | January February March April May | 21,373 20,885 20,728 16,997 14,968 | 477 416 403 444 341 | 21,850 21,301 21,131 17,440 15,309 | 101,246 95,459 91,288 90,796 91,276 | 14,170 13,825 13,543 12,531 12,473 | 115,416 109,284 104,831 103,327 103,749 | | |

^{&#}x27;GT/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."

During May 1983, U.S. nuclear powerplants generated a total of 22.1 billion net kilowatthours (kWh) of electricity, equivalent to an average hourly output of 29.7 million net kWh. This was 4.6 percent below the average hourly generation for April 1983 (adjusted for the daylight saving time change), but 2.0 percent above the comparable output for May 1982. Nuclear power supplied 12.7 percent of the electricity generated by domestic utilities in May 1983.

McGuire-2, a 1,180-net megawatt pressurized water reactor operated by Duke Power Company in North Carolina, received a Full Power License on May 27, 1983.

As of May 31, 1983, there were 81 licensed U.S. power reactors and the total U.S. nuclear powerplant capacity was 63.5 million net kilowatts. Of the 81 units, 3 were in fuel loading or low-power testing (Grand Gulf-1, San Onofre-3, and St. Lucie-2), 4 were in power ascension (LaSalle-1, San Onofre-2, Summer-1, and Susquehanna-1), and 29 generated no electricity or operated substantially below capacity in May (Arkansas-1, Browns Ferry-1, Brunswick-1, Cooper, Crystal River-3, Fort St. Vrain, Ginna, Hanford,

Hatch-2, Indian Point-3, La Salle-1, McGuire-1, McGuire-2, Nine Mile Point-1, North Anna-2, Oyster Creek, Peach Bottom-3, Point Beach-2, Rancho Seco, Robinson-2, Salem-1, Salem-2, San Onofre-1, St. Lucie-1, Surry-1, Three Mile Island-1, Trojan, Vermont Yankee, and Zion-2).

U.S. reactors in May 1983 had the lowest monthly availability or capacity factor (46.7 percent) since May 1980.

As of May 31, 1983, the total number of domestic nuclear powerplants in all stages of planning, construction, or operation was 143, with an aggregate design capacity of 134 million net kilowatts.

Humboldt Bay, a 63-net megawatt boiling water reactor operated by Pacific Gas and Electric Company and located in California, will be decommissioned. The plant was shut down in 1976 and restart would have required major and costly seismic-safety modifications. Humboldt Bay has not been included in the *Monthly Energy Review* tables since January 1980, due to its extended shutdown (see Note 1 on the last page of this section).





Nuclear Powerplant Operations¹

| | | Reactors Licensed For Operation ² | Nuclear-Based Electricity Generation | Nuclear Portion of Domestic Electricity Generation | Maximum Dependable Capacity³ | Capacity Factor• |
|------|-----------|--|--|--|------------------------------------|---------------------|
| | | | Million net kilowatt-hours | Percent | Million net kilowatts | Percent |
| 1973 | | 40 | 83,479 | 4.5 | 19.843 | 63.2 |
| 1974 | | 55 | 113,976 | 6.1 | 35.732 | 43.5 |
| 1975 | | 58 | 172,505 | 9.0 | 35.794 | 55.2 |
| 1976 | | 65 | 191,104 | 9.4 | 44.609 | 53.5 |
| | | | • | | | |
| 1977 | | 68 | 250,883 | 11.8 | 47.155 | 62.9 |
| 1978 | | 72 | 276,403 | 12.5 | 50.824 | 63.9 |
| 1979 | | 71 | 255,155 | 11.4 | 50.944 | 57.6 |
| 1980 | | 72 | 251,116 | 11.0 | 52.597 | 55.1 |
| 1981 | January | 73 | 23,779 | 11.5 | 54.374 | 58.8 |
| | February | 73 | 21,595 | 12.0 | 54.372 | 59.1 |
| | March | 73 | 22,004 | 11.9 | 54.429 | 54.3 |
| | April | 73 | 20,646 | 12.0 | 54.095 | 53.1 |
| | May | 73 | 19,723 | 11.1 | 54.074 | 49.0 |
| | June | 74 | 21,166 | 10.4 | 55.214 | 53.2 |
| | July | 74 | 23,080 | 10.5 | 54.998 | 56.4 |
| | August | 74 | 26,946 | 12.8 | 54.820 | 66.1 |
| | September | 75 | 24,398 | 13.1 | 56.974 | 60.5 |
| | October | 75 | 20,556 | 11.3 | 56.412 | 48.9 |
| | November | 74 | 22,783 | 13.0 | 55.328 | 57.2 |
| | December | 74 | 25,997 | 13.3 | 55.524 | 62.9 |
| | ANNUAL | 74 | 272,674 | 11.9 | 55.524 | 56.6 |
| 1982 | January | 74 | 25.678 | 12.3 | 55.471 | 62.2 |
| | February | 75 | 20,188 | 11.2 | 56.608 | 53.1 |
| | March | 75 | 22,755 | 12.1 | 56.609 | 54.0 |
| | April | 76 | 21,785 | 12.6 | 57,415 | 52.8 |
| | May | 76 | 21,639 | 12.2 | 57.428 | 50.6 |
| | June | 77 | 24,026 | 12.9 | 58.560 | 57.0 |
| | July | 78 | 25,467 | 12.1 | 59.601 | 57.4 |
| | August | 79 | 24,986 | 12.1 | 60.521 | 55.5 |
| | September | 79 | 25,391 | 14.1 | 60.501 | 58.3 |
| | October | 78 | 23,248 | 13.4 | 59.921 | 52.1 |
| | November | 79 | 23,235 | 13.4 | 61.523 | 52.5 |
| | December | 79 | 24,376 | 13.2 | R60.528 | R54.1 |
| | ANNUAL | 79 | 282,773 | 12.6 | R60.528 | 55.0 |
| 1983 | January | 79 | 25,090 | 12.8 | 61.030 | 55.3 |
| | February | 79 | 22,204 | 12.9 | 61.117 | 54.1 |
| | March | 80 | 23,897 | 13.1 | 62.697 | 51.2 |
| | April | 81 | 22,352 | 13.1 | 63.515 | 48.9 |
| | May | 81 | 22,064 | 12.7 | 63.495 | 46.7 |
| | | | | | | |

^{&#}x27;Monthly data are the status as of the last day of the month. Annual data are the status as of December 31 of each year.

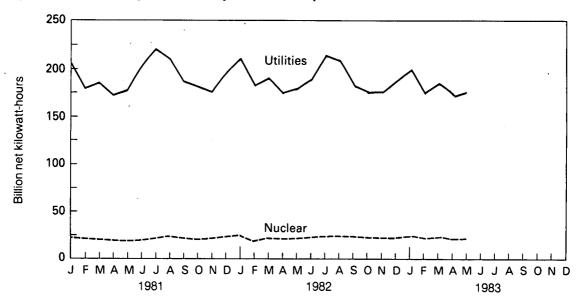
¹Monthly data are the status as of the last day of the month. Annual data are the status as of December 31 of each year. ²See Note 1 on the last page of this section. ³In this table, when possible, net maximum dependable capacity (MDC) is used. When a reactor has not been operating long enough to permit determination of an MDC, the net design electrical rating (DER) is used. The capacities for some units have been reduced by the imposition of a "power limit" by the Nuclear Regulatory Commission or by the operating utility. Beginning in January 1980, the reduced capacities are used for these units. For the definitions of MDC and DER, see Note 2 on the last page of this section. ⁴The monthly capacity factors are computed as the actual monthly generation divided by the maximum possible generation for that month, where the maximum possible generation is the number of hours in the month multiplied by the monthly maximum dependable capacity (MDC). This fraction is then multiplied by 100 to obtain a percentage. Monthly capacity factors are averaged to obtain annual values. For the definition of MDC, see Note 2 on the last page of this section.

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

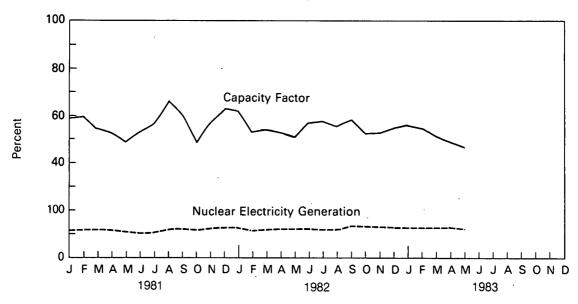
Sources: • See the last page of this section.

Nuclear Powerplant Operations

Electricity Generated by Utilities and by Nuclear Powerplants



Nuclear Portion of Electricity Generation and Capacity Factor*



^{*}Percentage of Maximum Dependable Capacity utilized.

Status of Nuclear Reactor Units¹

| | | Reactors Licensed For Operation ² | Construction Permits Granted | Construction Permits Pending | Reactor Units on Order | Reactor Units Announced | Total Reactor Units | Total Design Capacity ^s (Million Net Kilowatts) |
|------|-----------|--|------------------------------------|------------------------------------|------------------------------|-------------------------------|---------------------------|---|
| 1973 | | 40 | 51 . | 58 | 48 | 20 | 217 | 212 |
| 1974 | | 55 | 58 | 80 | 28 | 16 | 235 | 234 |
| 1975 | | 58 | 69 | 73 | 19 | 19 | 236 | 236 |
| 1976 | | 65 | 72 | 66 | 16 | 19 | 235 | 236 |
| 1977 | | 68 | 80 · | 52 | 13 | 9 | 221 | 220 |
| 1978 | | 72 | 90 | 32 | 9 | 4 | 206 | 204 |
| 1979 | | 71 . | 91 | 21 | 3 | 0 | 186 | 180 |
| 1980 | | 72 | 82 | 12 | 3 . | 0 | 169 | 163 |
| 1981 | January | 73 | 81 | 12 | · 3 | 0 | 169 | 163 |
| 1001 | February | 73 | 81 | 12 | 3. | 0 | 169 | 163 |
| | March | 73 | 81 | 12 | 3 | 0 | 169 | 163 |
| | April | 73 | 81 | 12 | 3 | Ō | 169 | 163 |
| | May | 73 73 | 81 | 12 | 3 | Ö | 169 | 163 |
| | | 73 74 | 80 | 12 | 3 | ŏ | 169 | 163 |
| | June | 74 74 | 80 | 12 | 3 | ŏ | 169 | 163 |
| | July | 74 74 | 79 | 12 | 3 | Ŏ | 168 | 162 |
| | August | | 79 78 | . 11 | 3 | 0 | 167 | 161 |
| | September | 75 75 | | 11 | 3 | 0 | 166 | 160 |
| | October | 75 | 77 70 | | | 0 | 166 | 160 |
| | November | 74 | 78 | 11 | 3 | | | |
| | December | 74 | 75 | 11 | 3 | 0 | 163 | 157 |
| 1982 | January | 74 | 73 | 11 | 3 | 0 | 161 | 154 |
| 1302 | February | 75 | 72 | 6 | 2 | 0 | 155 | 147 |
| | March | 75 | 72 | 6 | 2 | Ö | 155 | 147 |
| | April | 76 | 71 | 6 | 2 | Ō | 155 | 147 |
| | May | 76 | 71 | . 6 | 2 | Ŏ | 155 | 147 |
| | June | 77 | 70 | 6 | 2 | Ö | 155 | 147 |
| | July | 78 | 67 | 6 | 2 | Ö | 153 | 145 |
| | | 76 79 | 64 | 5 | 2 | ŏ | 150 | 141 |
| | August | 79 79 | 64 | 3 | 2 | ŏ | 148 | 138 |
| | September | 78 78 | 64 | 3 | 2 | ŏ | 147 | 138 |
| | October | 79 | 60 | 3 | 2 | ŏ | 144 | 135 |
| • | November | 7 9 79 | 60 | 3 | 2 | Ö | 144 | 135 |
| | December | 79 | | | | | | |
| 1983 | January | 79 | 60 | 3 | 2 | 0 . | 144 | 135 |
| | February | 79 | 60 | 3 | 2 | 0 | 144 | 135 |
| | March | 80 | 59 | 3 | 2 | 0 | 144 | 135 |
| | April | 8,1 | 57 | 3 | 2 | 0 | 143 | 134 |
| | May | 81 | 57 | 3 | 2 | 0 | 143 | 134 |
| | | | | | | | | |

Total

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.
³Net design electrical rating is used because many of the units in this table have not been operating long enough for a maximum dependable capacity to be determined. See Note 2 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. Reactors Licensed for Operation: This column includes units that have received Full Power and/or Low Power Licenses from the Nuclear Regulatory Commission with two exceptions. Hanford, an 850-net megawatt (MWe) reactor operated by the Department of Energy, is included, although it is not licensed by the NRC, because it distributes commercial electricity. The Experimental Breeder Reactor-2 is not included, although its 16th Icensed by the NAR, because it distributes commercial Breeder Reactor-2 is not included, although it generates electricity, because it does not distribute the electricity commercially. Three units that had been inoperative for at least 9 months prior to January 1980 are deleted from subsequent entries in the tables: Humboldt Bay (capacity=65 MWe), which requires major seismic modifications; Dresden-1 (capacity=200 MWe), which also needs major modifications; and Three Mile Island-2 (capacity=906 MWe), whose core was severely damaged by a loss-of-coolant accident in March 1979. Shippingport (capacity=60 MWe), which was a second reactor operated by the Department of Energy, was officially retired from service on October 1, 1982, and is deleted from subsequent entries in the tables.

entries in the tables.

2. Capacity: Nuclear powerplants may have more than one type of capacity rating, including:

(a) Gross Maximum Dependable Capacity (MDC)—The gross electrical output measured at the output terminals of the turbine generator(s) during the most restrictive seasonal conditions (usually summer).

(b) Net Maximum Dependable Capacity (MDC)—The gross MDC less the station service load. The typical station service load for a nuclear plant is about 5 percent of its gross generation.

(c) 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.

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." Electricity Generation: •1973 through September 1977—Federal Power Commission, Form 4, "Monthly Power Plant Report." •October 1977 through 1981—Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report." •1982 forward—Energy Information Administration, Form EIA-759, "Monthly Power Plant Report." Maximum Dependable Capacity: •Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors." 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-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulat

Price

Crude Oil

The average price of domestic crude oil purchased at the wellhead was \$26.05 per barrel in May 1983. This was 0.8 percent above the previous month's level but 5.9 percent below the level in May 1982.

During May 1983, the composite refiner acquisition cost of crude oil was \$28.71 per barrel, \$0.38 per barrel (1.3 percent) above the previous month's price of \$28.33. The price of imported crude oil increased \$0.61 per barrel from the April 1983 level to \$28.56 per barrel in May. This price was 12.9 percent below the May 1982 level. The price of domestic crude oil in May 1983 was \$28.77, an increase of \$0.32 per barrel from the April 1983 average.

Motor Gasoline

The national average retail price of all grades and all types of motor gasoline was \$1.26 per gallon in June 1983. Leaded regular gasoline at all types of stations sold for an average of \$1.20 per gallon in June, \$0.02 (1.7 percent) higher than the price in May 1983. The price of unleaded regular gasoline at all types of stations was \$1.28 per gallon in June, \$0.02 (1.4 percent) higher than the price in May.

Natural Gas

The average wellhead value of marketed natural gas production in April 1983 was

\$2.63 per thousand cubic feet (Mcf), \$0.01 per Mcf less than in March 1983 but \$0.28 per Mcf (11.9 percent) more than the April 1982 value. The average price of natural gas delivered to electric utility plants was \$3.34 per Mcf in April, down \$0.10 per Mcf (2.9 percent) from the March 1983 price but up \$0.02 from the April 1982 price. The average price of natural gas used by residential consumers in April 1983 was \$6.37 per Mcf, up \$0.20 per Mcf (3.2 percent) from the March 1983 price and \$1.19 per Mcf (23.0 percent) more than the April 1982 price.

Electricity

The average retail price of electricity sold by selected privately owned utilities to all types of consumers in May 1983 was 6.21 cents per kilowatt-hour (kWh), 1.5 percent greater than the April 1983 price and 2.0 percent more than the price in May 1982. The average price of electricity sold to residential consumers in May 1983 was 7.20 cents per kWh, 0.29 cents per kWh (4.2 percent) more than in the previous month and 0.26 cents per kWh more than in May 1982. The average price of electricity sold to commercial consumers was 7.04 cents per kWh in May 1983, 0.18 cents per kWh (2.6 percent) more than in both April 1983 and the previous May. The average electricity price to industrial users during May 1983 was 4.89 cents per kWh, 0.03 cents per kWh less than during the previous month and 0.06 cents per kWh less than during May 1982.

Price

Price

Petroleum Price Summary

| | | Actual Domestic | Refiner A | cquisition Cost o | f Crude Oil ² | No. 6 Residual Oil Price Average³ | | |
|------|-----------|--|-----------|-------------------|-------------------------------|--------------------------------------|---------------------|--|
| | • | Average Wellhead Price ¹ | Domestic | Imported | Composite | Wholesale ⁴ | Retail ⁴ | |
| | | | | Dollars per ba | arrel | | | |
| 1976 | AVERAGE | 8.19 | 8.84 | 13.48 | 10.89 | 10.72 | 11.49 | |
| 1977 | AVERAGE | 8.57 | 9.55 | 14.53 | 11.96 , 28 | 5 11.96 | 13.23 | |
| 1978 | AVERAGE | 9.00 | 10.61 | 14.57 、 | 12.46 . 7 [©] | | 12.75 | |
| 1979 | AVERAGE | 12.64 | 14.27 | 21.67 . | • | LZ 17.66 | 18.67 | |
| 1980 | AVERAGE | 21.59 | 24.23 | 33.89 | 28.07 | S 23.14 | 26.09 | |
| 1981 | January | 28.85 | 32.71 | 38.85 | 34.86 — | 31.14 | 33.65 | |
| | February | 34.14 | 36.27 | 39.00 | 37.28 | 31.81 | 36.04 | |
| | March | 34.70 | 36.97 | 38.31 | 37.48 | 31.78 | 36.11 | |
| | April · | 34.05 | 35.58 | 38.41 | 36.58 | 30.56 | 34.70 | |
| | May | 32.71 | 35.21 | 37.84 | 36.11 | 30.41 | 34.11 | |
| | June | 31.71 | 34.20 | 37.03 | 35.03 | 25.95 | 31.03 | |
| | July | 31.13 | 33.76 | 36.58 | 34.70 | 26.52 | 30.57 | |
| | August | 31.13 | 33.79 | 35.82 | 34.46 | 27.01 | 30.52 | |
| | September | 31.13 | 33.47 | 35.44 | 34.11 | 26.20 | 30.33 | |
| | October | 31.00 | 33.48 | 35.43 | 34.07 | 26.78 | 30.32 | |
| | November | 30.98 | 33.49 | 36.21 | 34.33 | 27.99 | 30.16 | |
| | December | 30.72 | 33.51 | 35.95 | 34.33 | 27.26 | 30.90 | |
| | AVERAGE | 31.77 | 34.33 | 37.05 | 35.24 :83 | | 32.50 | |
| 1982 | January | 30.87 | 33.39 | 35.54 | 33.95 | 27.07 | 29.83 | |
| | February | 29.76 | 32.71 | 35.48 | 33.40 | 26.29 | 30.02 | |
| | March | 28.31 | 31.08 | 34.07 | 31.81 | 25.73 | 29.50 | |
| | April | 27.65 | 30.27 | 32.82 | 30.83 | 25.46 | 28.21 | |
| | May | 27.67 | 30.37 | 32.78 | 31.02 | 26.52 | 28.93 | |
| | June | 28.11 | 30.79 | 33.79 | 31.74 | 26.62 | 29.59 | |
| | July | 28.33 | 30.92 | 33.44 | 31.74 | 25.97 | 29.33 | |
| | August | 28.18 | 30.85 | 32.95 | 31.45 | 26.34 | 28.44 | |
| | September | 27.99 | 30.76 | 33.03 | 31.40 | 26.49 | 28.43 | |
| | October | 28.74 | 31.38 | 33.28 | 31.98 | 27.52 | 29.28 | |
| | November | 28.70 | 31.57 | 33.09 | 32.07 | 28.31 | 29.84 | |
| | December | 28.12 | 30.80 | 32.85 | | | 28.47 | |
| | AVERAGE | 28.52 | 31.22 | | 31.29 31.87 75 | 26.55 | 29.08 | |
| | | | | 33.55 | | | | |
| 1983 | January | 27.22 | 30.55 | 31.40 | 30.73 | NA | NA | |
| | February | 26.41 | 29.16 | 30.76 | 29.49 28:64 | NA NA | NA | |
| | March | 26.08 | 28.69 | 28.43 | | | NA | |
| | April | R25.85 | R28.45 | 27.95 | R28.33 | NA | NA 、 | |
| | May† | 26.05 | 28.77 | 28.56 | 28.71 | NA | NA | |
| | June | NA | NA | NA | NA | NA | NA | |

See Note 1 on the last two pages of this section.

See Note 2 on the last two pages of this section.

Wholesale refers to the price of residual fuel oil sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and other residual dealers. Retail refers to the price at which residual fuel oil is sold to ultimate consumers such as utility, industrial, commercial, and residential accounts.

Excludes tax.

Wholesale refers to the price of diesel fuel sold to other refiners and resellers, including branded and unbranded jobbers and commercial accounts. Retail refers to the price at which company-owned and operated retail dealers sell to customers. See additional footnotes on the following page.

Price Petroleum Price Summary (continued)

| | • | No. 2 Diesel Price Average⁵ | | No. 2 Heatir Aver | • | Gasoline Price Average | | Butane Price Average |
|------|--------------------|--------------------------------|---------|----------------------|-----------------|------------------------------|------------|----------------------------|
| | | Wholesale ⁴ | Retail* | Wholesale | Retail | All Types⁴ Retail | Wholesale* | Wholesale* |
| | | | | | Cents per gallo | on | | |
| 1976 | AVERAGE | 31.9 | 34.7 | 32.6 | 40.6 | NA | 20.6 | 21.9 |
| 1977 | AVERAGE | 36.1 | 39.3 | 36.9 | 46.0 | NA | 25.0 | 25.4 |
| 1978 | AVERAGE | 37.1 | 40.2 | 38.7 | 49.4 | 65.2 | 24.0 | 23.0 |
| 1979 | AVERAGE | 58.2 | 62.4 | 53.0 | 65.6 | 88.2 | 29.5 | 45.8 |
| 1980 | AVERAGE | 81.2 | 87.3 | 82.2 | 97.8 | 122.1 | 42.4 | 62.9 |
| 1981 | January | 92.5 | 100.9 | (98.6) | 114.4 | 126.9 | 46.5 | 66.1 |
| | February | 99.5 | 106.1 | 106.0 | 123.4 | 135.3 | 48.2 | 63.0 |
| | March | 101.7 | 108.8 | 106.3 | 125.5 | 138.8 | 48.3 | 62.1 |
| | April | 101.3 | 107.7 | 105.2 | 123.9 | 138.1 | 49.3 | 60.1 |
| | May | 100.8 | 106.8 | 104.0 | 122.7 | 137.0 | 48.6 | 56.8 |
| | June | 99.5 | 106.6 | 103.0 | 120.9 | 136.2 | 46.0 | 52.7 |
| | ~July | 98.8 | 103.8 | 102.7 | 121.0 | 135.3 | 46.0 | 56.5 |
| | August | 97.8 | 105.9 | 102.2 | 119.4 | 134.8 | 47.2 | 60.6 |
| | September | 97.6 | 104.8 | 101.6 | 119.7 | 135.8 | 47.7 | 64.6 |
| | October | 97.4 | 105.3 | 101.1 | 118.8 | 135.3 | 47.3 | 64.7 |
| • | November | 98.3 | 105.2 | 102.3 | 120.8 | 135.1 | 47.5 | 61.6 |
| | December | 98.3 | 105.1 | 102.6 | 122.0 | 134.8 | 45.5 | 55.4 |
| | AVERAGE | 98.5 | 106.2 | 102.6 | 120.5 | 135.3 | 47.2 | 60.4 |
| 1982 | January | 98.0 | 105.3 | 101.5 | 122.0 | 134.1 | 43.1 | 51.8 |
| | February | 94.8 | 103.2 | 98.3 | 120.7 | 131.8 | 38.3 | 48.9 |
| | March | 90.2 | 98.0 | 91.3 | 115.3 | 126.8 | 35.7 | 49.6 |
| | April ^e | 86.6 | 96.1 | 90.0 | 113.2 | 121.0 | 34.9 | 56.1 |
| | May | 89.1 | 97.6 | 95.1 | 114.3 | 122.4 | 35.4 | 65.6 |
| • | June | 93.5 | 102.2 | 98.5 | 116.2 | 129.6 | 36.9 | 67.9 |
| | July | 93.4 | 101.1 | 98.6 | 115.8 | 131.8 | 39.7 | 69.7 |
| | August | 92.3 | 99.3 | 96.7 | 115.9 | 131.0 | 43.8 | 72.2 |
| | September | 92.4 | 99.8 | 97.7 | 115.2 | 129.5 | 49.5 | 77.4 |
| | October | 95.7 | 102.1 | 102.0 | 119.6 | 128.0 | 51.0 | 75.7 |
| | November | 97.3 | 104.5 | 101.5 | 121.6 | 126.8 | 53.2 | 76.1 |
| | December | 91.2 | 100.3 | 95.9 | 119.6 | 124.4 | 49.5 | 72.6 |
| | AVERAGE | 92.7 | 100.5 | 97.4 | 118.6 | 128.1 | 43.3 | 64.8 |
| 1983 | January | NA NA | NΑ | NA | NA | 121.3 | NA | NA |
| | February | NA | NA | . NA | NA | 1170/ | · NA | NA |
| | March | NA | NA | NA | NA | 113.5 \ 1, / | 92 NA | NA |
| | April | NA | NA | NA | NA | 119.8 | NA | NA |
| | May | NA | NA | NA | NA | 124:3) | NA | NA |
| | June | NA | NA | NA | NA | 126.1 | NA | NA |
| • | | | | | | | | |

Footnotes continued.

Beginning 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. See Note 5 on the last two pages of this section for additional information on motor gasoline prices.

Wholesale refers to the price at which refiners, resellers, retailers, and gas plants sell to one another, including sales to agricultural and industrial accounts. Excludes butane/propane mixtures.

†Preliminary data. R=Revised data. NA=Not available.

Note: • Geographic coverage is the 50 States and the District of Columbia, except for the refiner acquisition cost of crude oil, which is the 50 States, the District of Columbia, Puerto Rico, Guam, and the Virgin Islands.

Sources: • See the last two pages of this section.

Price FOB Cost of Crude Oil Imports from Selected Countries¹

| | | Algeria | Indonesia | Iran | Libya | Mexico | Nigeria | Saudi Arabia | United Arab Emirates | United Kingdom | Venezuela |
|------|-----------|----------|-----------------|------------|------------|---------|------------|-----------------|----------------------------|-------------------|-----------|
| | | | | | | Dollars | per barrel | | | | |
| 1976 | AVERAGE | 13.05 | 12.76 | 11.61 | 12.55 | NA | 13.08 | 11.69 | 11.94 | NA | 11.32 |
| 1977 | AVERAGE | 14.36 | 13.57 | 12.67 | 13.90 | 13.42 | 14.44 | 12.37 | 12.83 | NA | 12.68 |
| 1978 | AVERAGE | 14.10 | 13.64 | 12.65 | 13.75 | 13.24 | 14.04 | 12.70 | 13.24 | 13.82 | 12.45 |
| 1979 | AVERAGE | 20.65 | 19.35 | 23.71 | 22.43 | 20.29 | 21.80 | 17.63 | 19.58 | 21.20 | 17.37 |
| 1980 | AVERAGE | 36.57 | 32.37 | (²) | 36.41 | 31.11 | 35.82 | 28.53 | NA | 34.58 | 24.78 |
| 1981 | January | 39.37 | 36.54 | (²) | 40.52 | 35.88 | 40.11 | 32.39 | NA | 38.34 | 32.87 |
| | February | 40.13 | 36.13 | (2) | 40.73 | 36.57 | 40.03 | 32.60 | NA | 39.41 | 30.36 |
| | March | 40.30 | 36.40 | (2) | 40.25 | 35.60 | 39.85 | 32.73 | NA | 39.50 | 31.24 |
| | April | 39.70 | 36.38 | (2) | 40.04 | 33.81 | 39.92 | 32.41 | NA | 38.85 | 29.93 |
| | May | 39.57 | 36.09 | (²) | 38.91 | 34.45 | 39.11 | 32.13 | NA | 37.16 | 28.39 |
| | June | 39.20 | 36.95 | (2) | 39.85 | 30.30 | 38.44 | 32.42 | NA | 35.84 | 30.50 |
| | July | 38.06 | 35.47 | (2) (2) | 38.70 | 32.72 | 39.25 | 32.07 | NA | 34.89 | 29.25 |
| | August | 39.34 | 35.61 | (²) | 39.45 | 31.23 | 39.55 | 31.95 | NA | 34.38 | 27.08 |
| | September | 39.60 | 35.82 | (²) | 36.74 | 30.37 | 36.04 | 32.09 | | 34.44 | 28.14 |
| | October | 36.90 | 35.08 | (²) | 36.36 | 30.83 | 35.45 | 33.56 | NA | 34.87 | 27.27 |
| | November | 36.55 | 35.53 | (²) | 37.15 | 31.80 | 36.41 | 33.49 | NA | 35.97 | 28.39 |
| | December | 37.35 | 36.08 | (2) | 36.78 | 31.29 | 36.49 | 33.70 | NA | 36.46 | 28.02 |
| | AVERAGE | 39.09 | 35.93 | (²) | 39.44 | 33.13 | 38.53 | 32.48 | NA | 36.08 | 28.86 |
| 1982 | January | 36.96 | 35.53 | (2) | 35.69 | 29.67 | 36.23 | 33.40 | NA | 36.20 | 29.07 |
| | February | 35.56 | 35.59 | (²) | 34.64 | 30.92 | 35.92 | 33.50 | ` NA | 34.00 | 28.94 |
| | March | 31.50 | 35.74 | (²) | 34.21 | 27.86 | 34.94 | 33.77 | NA | 30.78 | 22.89 |
| | April | 30.54 | 35.69 | · (²) | (2) | 26.96 | 33.80 | 33.49 | NA | 32.49 | 21.89 |
| | May | 33.32 | 34.82 | 31.11 | (²) | 28.53 | 35.22 | 32.97 | NA | 32.43 | 22.31 |
| | June | 34.72 | 35.95 | NA | (2) | 28.18 | 35.18 | 33.80 | NA | 33.67 | 22.25 |
| | July | 34.35 | 35.22 | 31.44 | (²) | 28.32 | 35.15 | 33.26 | NA | 33.66 | 23.50 |
| | August | 33.03 | 35.63 | 31.17 | (²) | 27.67 | 35.13 | 32.63 | NA | 33.17 | 20.71 |
| | September | 34.20 | 35.24 | NA | (²) | 27.95 | 34.70 | 32.98 | NA | 33.30 | 23.58 |
| | October | 34.26 | 35.25 | NA | (²) | 27.82 | 35.05 | 33.54 | NA | 33.93 | 22.93 |
| | November | 34.44 | 34.99 | 29.80 | (²) | 27.63 | 35.02 | 33.59 | NA | 34.08 | 23.74 |
| | December | 34.86 | 34.73 | 29.09 | (²) | 27.63 | 33.18 | 34.04 | NA | 33.21 | 26.21 |
| | AVERAGE | 34.23 | 35.27 | 30.93 | 35.12 | 28.07 | 35.13 | 33.50 | NA | 33.46 | 23.77 |
| 1983 | January | NA | 34.71 | NA | (²) | 26.90 | NA | NA | NA NA | 32.77 | 21.58 |
| 1303 | February | NA NA | 33.74 | NA NA | (²) | 25.69 | NA NA | NA NA | NA | 30.95 | 21.82 |
| | March | 31.07 | 29.69 | NA NA | (²) | 24.53 | 29.52 | 30.03 | NA NA | 29.16 | 20.04 |
| | April | R29.37 | 29.09 R29.57 | NA NA | (²) (²) | R24.18 | R29.63 | 30.03 NA | NA NA | R30.07 | R20.05 |
| | May† | 29.47 | 29.31 | NA | (²) | 24.64 | 29.73 | NA NA | NA | 29.47 | 19.99 |
| | | | | | | | | | | | • |

¹The Free on Board (FOB) cost excludes all costs related to insurance and transportation. See Note 3 on the last two pages of this section.

²No crude oil was imported.

†Preliminary data. R=Revised data. NA=Not available.

Note: • Prices shown through December 1980 are for the month of reporting; prices since then are for the month of loading.

Sources: • See the last two pages of this section.

Price Landed Cost of Crude Oil Imports from Selected Countries¹

| | | Algeria | Canada | Indonesia | Iran | Libya | Mexico | Nigeria | Saudi Arabia | United Arab Emirates | United Kingdom | Venezuela |
|------|-----------|---------|--------|-----------|--------------------------------|------------------|------------|-----------|-----------------|----------------------------|-------------------|-----------|
| | | | | | | | Dollars pe | er barrel | | | | |
| 1975 | AVERAGE | 12.72 | 12.72 | 13.79 | 12.21 | 12.35 | NA | 12.62 | 12.30 | 12.87 | NA | 11.65 |
| 1976 | AVERAGE | 13.81 | 13.57 | 13.82 | 12.82 | 13.58 | NA | 13.80 | 13.04 | 13.30 | NA | 11.80 |
| 1977 | AVERAGE | 15.20 | 14.21 | 14.63 | 13.80 | 14.87 | 13.75 | 15.25 | 13.61 | 14.04 | NA | 13.13 |
| 1978 | AVERAGE | 14.91 | 14.50 | 14.64 | 13.88 | 14.72 | 13.54 | 14.86 | 13.92 | 14.39 | NA | 12.83 |
| 1979 | AVERAGE | 21.90 | 20.43 | 20.69 | 25.02 | 23.68 | 20.86 | 22.96 | 19.15 | 21.90 | 22.16 | 18.18 |
| 1980 | AVERAGE | 37.90 | 30.47 | 33.92 | (²) | 37.72 | 31.80 | 37.05 | 30.02 | NA | 35.88 | 25.86 |
| 1981 | January | 41.25 | 34.26 | 38.08 | (²) | 41.81 | 36.81 | 41.55 | 34.06 | NA | 39.90 · | 33.80 |
| | February | 41.90 | 33.73 | 37.86 | (²) | 42.19 | 37.23 | 41.46 | 34.38 | NA | 40.69 | 31.20 |
| | March | 41.62 | 33.88 | 38.11 | (²) | 41.60 | 36.42 | 40.98 | 34.42 | NA | 40.72 | 32.09 |
| | April | 40.96 | 33.74 | 37.95 | (²) | 41.58 | 34.42 | 41.04 | 34.16 | NA | 40.02 | 30.97 |
| | May | 40.81 | 32.70 | 37.72 | (²) | 40.46 | 34.83 | 40.10 | 33.73 | NA | 38.31 | 29.39 |
| | June | 40.31 | 32.67 | 38.73 | (²) | 41.44 | 31.03 | 39.60 | 34.29 | NA | 37.04 | 31.46 |
| | July | 39.59 | 31.19 | 37.20 | (²) | 40.27 | 33.18 | 40.05 | 33.72 | NA | 35.87 | 29.22 |
| | August | 40.65 | 30.44 | 37.07 | (²) | 40.30 | 31.77 | 40.85 | 33.23 | NA | 35.40 | 28.11 |
| | September | 41.62 | 30.83 | 37.52 | (²) | 37.73 | 30.84 | 37.20 | 33.66 | NA | 35.26 | 29.12 |
| | October | 37.52 | 31.17 | 36.39 | (²) | 38.15 | 31.34 | 36.64 | 34.88 | NA | 36.00 | 28.27 |
| | November | 37.43 | 31.04 | 36.84 | (²) | 38.50 | 32.42 | 37.59 | 34.91 | NA | 36.87 | 29.27 |
| | December | 38.14 | 31.37 | 37.31 | (²) | 38.89 | 31.85 | 37.52 | 35.37 | NA | 37.44 | 29.00 |
| | AVERAGE | 40.49 | 32.16 | 37.57 | (²) | 40.92 | 33.78 | 39.70 | 34.19 | NA | 37.24 | 29.87 |
| 1982 | January | 38.19 | 31.05 | 36.88 | (²) | 36.91 | 30.21 | 37.37 | 34.44 | NA | 36.78 | 29.82 |
| | February | 37.09 | 28.80 | 36.81 | (²) | 35.28 | 31.47 | 37.06 | 34.51 | NA | 35.04 | 30.09 |
| | March | 32.25 | 26.71 | 37.17 | (²) | 34.80 | 28.69 | 35.81 | 34.92 | NA | 31.35 | 23.92 |
| | April | 31.66 | 24.86 | 36.87 | (²) | (²) | 27.58 | 34.82 | 34.80 | NA | 33.19 | 23.09 |
| | May | 34.24 | 24.90 | 36.50 | 32.01 | (²) | 29.18 | 36.06 | 34.28 | NA | 33.22 | 23.44 |
| | June | 35.41 | 24.63 | 37.35 | NA | (²) | 28.76 | 36.15 | 35.20 | NA | 34.41 | 23.43 |
| | July | 35.26 | 26.62 | 37.04 | 32.08 | (²) | 28.95 | 36.19 | 35.04 | NA | 34.67 | 24.61 |
| | August | 33.87 | 26.40 | 36.81 | 31.84 | (²) | 28.19 | 36.16 | 34.28 | NA | 33.88 | 21.90 |
| | September | 34.88 | 26.52 | 36.65 | NA | (²) | 28.50 | 35.56 | 34.45 | NA | 34.01 | 24.53 |
| | October | 35.41 | 26.91 | 36.83 | 33.28 | (²) | 28.22 | 35.98 | 35.21 | NA | 34.56 | 23.90 |
| | November | 35.82 | 26.78 | 36.49 | 32.66 | (²) | 28.17 | 36.04 | 35.41 | NA | 34.74 | 24.91 |
| | December | 35.70 | 27.35 | 36.19 | 32.73 | (2) | 28.19 | 34.54 | 36.43 | NA | 34.05 | 27.09 |
| | AVERAGE | 35.28 | 26.92 | 36.75 | 32.40 | 36.05 | 28.64 | 36.17 | 35.00 | NA | 34.28 | 24.82 |
| 1983 | January | 33.20 | 27.62 | 36.12 | NA | (2) | 27.50 | NA | NA | NA | 33.48 | 23.20 |
| | February | 32.17 | 26.19 | 35.07 | NA | (²) | 26.15 | 32.24 | NA | NA | 33.33 | 23.36 |
| | March | 31.24 | 24.78 | 31.17 | NA | (²) | 25.06 | 30.49 | 31.63 | NA | 29.92 | 21.48 |
| | April | R30.55 | 24.35 | R31.14 | NA | (²) | R24.65 | R30.63 | NA | NA | R30.84 | R21.45 |
| | May† | 30.30 | 24.32 | 30.82 | NA | (2) | 25.22 | 30.81 | NA | NA | 30.46 | 21.31 |

¹See Note 4 on the last two pages of this section.
²No crude oil was imported.
†Preliminary data. R=Revised data. NA=Not available.
Note: • Prices shown through December 1980 are for the month of reporting; prices since then are for the month of loading.
Sources: • See the last two pages of this section.

Price

U.S. City Average Retail Prices for Motor Gasoline¹

| | | Leaded Regular | Unleaded Regular | Leaded Premium | Average for All Types |
|------|------------------------|-------------------|---------------------|-------------------|-----------------------------|
| | | | Cents per gallo | on, including tax | |
| 1974 | AVERAGE | 53.2 | NA | 56.9 | NA |
| 1975 | AVERAGE | 56.7 | NA | 60.9 | NA |
| 1976 | AVERAGE | 59.0 | 61.4 | 63.6 | NA |
| 1977 | AVERAGE | 62.2 | 65.6 | 67.4 | NA |
| 1978 | AVERAGE | 62.6 | 67.0 | 69.4 | 65.2 |
| 1979 | AVERAGE | 85.7 | 90.3 | 92.2 | 88.2 |
| 1980 | AVERAGE | 119.1 | 124.5 | 128.1 | 122.1 |
| 1981 | January | 123.8 | 129.8 | 133.8 | 126.9 |
| | February | 132.1 | 138.2 | 141.0 | 135.3 |
| | March | 135.2 | 141.7 | 144.9 | 138.8 |
| | April | 134.4 | 141.2 | 145.1 | 138.1 |
| | May | 133.3 | 140.0 | 144.7 | 137.0 |
| | June | 132.4 | 139.1 | 144.6 | 136.2 |
| | July | 131.5 | 138.2 | 144.6 | 135.3 |
| | August | 131.0 | 137.6 | 144.4 | 134.8 |
| | September ² | 130.5 | 137.6 | 145.6 | 135.8 |
| | October | 129.9 | 137.1 | 145.7 | 135.3 |
| | November | 129.7 | 136.9 | 146.2 | 135.1 |
| | December | 129.3 | 136.5 | 146.0 | 134.8 |
| | AVERAGE | 131.1 | 137.8 | 143.9 | 135.3 |
| 1982 | January | 128.5 | 135.8 | 145.6 | 134.1 |
| | February | 126.0 | 133.4 | 143.8 | 131.8 |
| | March | 120.6 | 128.4 | 140.7 | 126.8 |
| | April | 114.8 | 122.5 | 136.8 | 121.0 |
| | May | 116.6 | 123.7 | 137.9 | 122.4 |
| | June | 124.2 | 130.9 | 140.8 | 129.6 |
| | July | 126.3 | 133.1 | 145.0 | 131.8 |
| | August | 125.4 | 132.3 | 145.8 | 131.0 |
| | September | . 123.6 | 130.8 | 144.1 | 129.5 |
| | October | 121.9 | 129.5 | 141.3 | 128.0 |
| | November | 120.7 | 128.3 | 141.2 | 126.8 |
| | December | 118.1 | 126.0 | 137.1 | 124.4 |
| | AVERAGE | 122.2 | 129.6 | 141.7 | 128.1 |
| 1983 | January | 114.6 | 122.8 | 135.3 | 121.3 |
| | February | 109.9 | 118.7 | 131.8 | 117.0 |
| | March | 106.4 | 115.1 | 127.4 | 113.5 |
| | April | 113.1 | 121.5 | 132.1 | 119.8 |
| | May | 117.7 | 125.9 | 137.6 | 124.3 |
| | June | 119.7 | 127.7 | 142.9 | 126.1 |

¹See Note 5 on the last two pages of this section.

²Beginning with September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. In the average for all types category, gasohol is now included and unleaded premium is weighted more heavily.

NA=Not available.

Note: • Geographic coverage for 1974 through 1977 is 56 urban areas. For 1978 forward it is 85 urban areas.

Sources: • See the last two pages of this section.

Aviation Fuel

| | | Aviation Gasoline | | Naphtha-Type ¹ | Kerosene- | Туре |
|------|---|--|---|---|--|--|
| | | Wholesale ² | Retail ² | Retail ² | Wholesale ² | Retail ² |
| | | | Cents | s per gallon, excludi | ng tax | |
| 1976 | AVERAGE | 42.4 | 43.1 | 31.5 | 32.5 | 31.2 |
| 1977 | AVERAGE | 46.7 | 47.7 | 35.0 | 36.7 | 35.8 |
| 1978 | AVERAGE | 51.0 | 52.1 | 37.5 | 38.9 | 38.9 |
| 1979 | AVERAGE | 68.5 | 69.5 | 52.3 | 66.5 | 55.1 |
| 1980 | AVERAGE | 107.2 | 109.4 | 88.2 | 87.5 | 87.4 |
| 1981 | January February March April May June July August September October November December AVERAGE | 118.9 121.3 127.2 117.5 120.7 116.5 120.1 120.0 121.0 117.2 114.4 116.8 | 121.6 128.1 131.1 131.3 133.5 132.1 133.4 132.5 133.5 134.5 133.2 131.9 131.5 | 99.2 102.7 106.9 109.0 109.1 107.6 106.3 105.7 105.6 104.8 104.5 103.8 | 97.1 103.6 104.8 103.8 104.4 102.3 100.5 101.4 103.0 99.9 101.9 101.9 | 95.7 101.6 106.3 106.4 106.2 104.8 103.8 103.3 103.3 101.1 102.6 102.2 103.1 |
| 1982 | January February March April May June July August September October November December AVERAGE | 122.4 122.0 117.0 113.4 109.6 114.7 120.4 117.7 115.7 116.6 118.4 119.6 | 133.2 134.0 134.8 132.7 132.7 132.5 134.4 132.6 130.0 131.5 131.7 130.3 | 101.7 101.3 98.4 96.0 94.1 98.7 97.3 98.2 98.5 96.4 94.0 | 101.3 100.0 97.6 93.0 91.7 94.1 94.3 95.0 95.5 98.4 98.2 93.7 | 101.6 101.0 99.6 96.8 95.5 95.3 95.3 95.4 95.1 95.8 96.4 95.6 |

¹Nearly all naphtha-type fuels are sold directly to the Defense Fuel Supply Center. Consequently, wholesale prices are not applicable.

²Wholesale refers to the price of aviation fuel sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and aviation fuel distributors. Retail refers to the price of aviation fuel sold to ultimate consumers, including commercial airline and military accounts.

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

Sources: • See the last two pages of this section.

Price

National Average Heating Oil Prices¹

| | | Refiners' Average Selling Price to Resellers and Retailers | Average Purchase Price Paid by Distributors for Heating Oil ² | Average Distributor Margin on Residential Heating Oil ² | Average Selling Price to Residential Customers ² |
|------|----------------------|--|--|--|---|
| | | • | Cents per gallo | n | |
| 1976 | AVERAGE | 31.4 | 32.6 | NA | 40.6 |
| 1977 | AVERAGE | 35.7 | 36.9 | NA | 46.0 |
| 1978 | AVERAGE | 37.2 | 38.7 | 11.0 | 49.4 |
| 1979 | AVERAGE | 55.9 | 53.0 | 12.8 | 65.6 |
| 1980 | AVERAGE | 80.0 | 82.2 | 15.8 | 97.8 |
| 1981 | January February | 94.9 102.5 | 98.6 106.0 | 15.1 16.1 | 114.4 123.4 |
| | March April | 102.8 100.9 | 106.3 105.2 | 17.6 17.7 | 125.5 123.9 |
| | May June | 100.7 99.3 | 104.0 103.0 | 17.6 16.9 | 122.7 120.9 |
| | July August | 98.5 98.2 | 102.7 102.2 | 17.1 16.2 | 121.0 119.4 |
| | September October | 97.8 | 101.6 | 17.2 | 119.7 |
| | November | 98.0 100.0 | 101.1 102.3 | 16.6 17.6 | 118.8 120.8 |
| | December AVERAGE | 100.6 99.3 | 102.6 102.6 | 18.3 16.8 | 122.0 120.5 |
| 1982 | January | 99.1 | 102.6 | 19.3 | 120.3 |
| 1302 | February | 94.7 | 98.3 | 21.3 | 120.7 |
| | March April | 87.4 86.0 | 91.3 90.0 | 22.6 22.0 | 115.3 113.2 |
| | May June | 91.2 95.4 | 95.1 | 18.4 | 114.3 |
| | July | 93.8 | 98.5 98.6 | 16.9 16.3 | 116.2 115.8 |
| | August September | 92.5 93.3 | 96.7 97.7 | 18.2 16.3 | 115.9 115.2 |
| | October | 98.8 | 102.0 | 16.7 | 119.6 |
| | November December | 99.2 89.9 | 101.5 95.9 | 19.0 22.9 | 121.6 119.6 |
| | AVERAGE | 93.2 | 97.4 | 20.2 | 118.6 |

¹See Note 6 on the last two pages of this section.
²Average selling prices, purchase prices, and dealer margins represent sales for residential heating oil only.
NA=Not available.
Note: • Geographic coverage is the 50 States and the District of Columbia.
Sources: • See the last two pages of this section.

PriceResidential Heating Oil Prices by Region

Standard Federal Region¹

| | | Cents per gallon | | | | | | | | | | |
|------|-----------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | . 8 | 9 | 10 | |
| 1980 | January | 91.8 | 91.0 | 90.2 | 88.6 | 90.4 | (²) | 90.0 | 90.2 | 89.6 | 91.0 | |
| | February | 96.7 | 95.3 | 94.7 | 93.0 | 93.5 | (²) | 93.6 | 93.5 | 95.8 | 95.7 | |
| | March | 98.7 | 97.2 | 96.5 | 94.8 | 94.3 | (²) | 95.1 | 95.9 | 93.9 | 97.6 | |
| | April | 99.2 | 97.3 | 96.6 | 94.1 | 94.5 | (²) | 95.3 | 99.5 | 94.7 | 99.0 | |
| | May | 98.7 | 97.3 | 96.4 | 94.2 | 95.8 | (²) | 95.2 | 97.7 | 95.5 | 98.6 | |
| | June | 99.8 | 97.9 | 96.8 | 95.1 | 95.8 | (²) | 95.3 | 98.4 | 96.0 | 99.8 | |
| | July | 100.3 | 98.1 | 96.6 | 94.2 | 96.2 | (²) | 93.1 | 97.0 | 96.7 | 100.2 | |
| | August | 100.2 | 97.9 | 96.8 | 94.8 | 95.7 | (2) | 95.4 | 92.1 | 99.7 | 100.4 | |
| | September | 100.5 | 98.2 | 97.0 | 94.7 | 95.7 | (2) | 93.7 | 93.0 | 97.2 | 100.6 | |
| | October | 101.1 | 98.8 | 97.4 | 95.6 | 95.9 | (2) | 94.7 | 94.1 | 98.6 | 100.4 | |
| | November | 102.5 | 103.0 | 99.9 | 101.5 | 98.8 | (²) | 95.2 | 98.5 | 101.0 | 103.1 | |
| | December | 108.2 | 108.5 | 105.3 | 106.6 | 103.4 | (²) | 99.6 | 101.8 | (2) | 105.6 | |
| 1981 | January | 116.2 | 117.1 | 113.2 | 114.0 | 110.4 | (2) | 106.3 | 108.6 | (²) | 107.5 | |
| | February | 125.8 | 126.6 | 123.0 | 124.4 | 117.8 | (²) | 114.2 | 113.1 | (²) | 113.7 | |
| | March | 127.6 | 128.4 | 125.0 | 125.3 | 119.3 | (2) | 115.4 | 119.3 | 111.5 | 116.5 | |
| | April | 126.8 | 126.6 | 122.7 | 124.8 | 118.3 | (2) | 114.7 | 118.4 | (2) | 117.5 | |
| | May | 125.5 | 125.6 | 122.1 | 118.8 | 117.3 | (2) | 114.5 | 115.1 | 114.1 | 115.6 | |
| | June | 124.1 | 123.6 | 121.1 | 115.9 | 116.5 | (2) | 112.5 | 116.0 | (2) | 117.1 | |
| | July | 123.3 | 122.9 | 120.6 | 120.2 | 116.0 | (²) | 115.9 | 116.2 | (²) | 118.3 | |
| | August | 122.7 | 122.2 | 117.9 | 117.4 | 115.1 | $\binom{2}{2}$ | 112.1 | 116.9 | (²) | 117.7 | |
| | September | 122.7 | 121.4 | 118.5 | 120.5 | 116.2 | (²) | 111.6 | 116.8 | (²) | 117.8 | |
| | October | 122.5 | 122.0 | 115.3 | 117.6 | 116.3 | (2) | 112.0 | 115.8 | (²) | 118.2 | |
| | November | 123.3 | 123.2 | 119.5 | 118.2 | 116.7 | (²) | 114.1 | 115.8 | (²) | 118.8 | |
| | December | 124.8 | 124.7 | 120.7 | 119.0 | 117.4 | (²) | 112.4 | 117.1 | (²) | 120.0 | |
| 1982 | January | 125.3 | 124.7 | 120.6 | 118.7 | 117.1 | (2) | 112.7 | 116.1 | (²) | 119.7 | |
| | February | 123.2 | 123.7 | 119.3 | 115.3 | 116.0 | (²) | 110.9 | 114.9 | . (²) | 119.5 | |
| | March | 117.4 | 119.0 | 112.3 | 112.9 | 111.0 | (²) | 106.4 | 109.7 | (²) | 118.1 | |
| | April | 113.9 | 116.6 | 112.2 | 109.4 | 108.7 | (²) | 100.8 | 106.3 | (²) | 116.0 | |
| | May | 115.9 | 117.1 | 113.2 | 111.7 | 110.8 | (²) | 108.7 | 108.4 | (²) | 116.6 | |
| | June | 117.5 | 118.5 | 115.2 | 113.5 | 114.4 | (²) | 111.8 | 112.3 | (²) | 116.0 | |
| | July | †17.7 | 118.5 | 113.4 | 115.2 | 113.6 | (²) | 111.7 | (²) | (²) | 115.9 | |
| | August | 118.6 | 118.8 | 113.9 | 112,4 | 111.9 | (²) | (²) | (²) | (²) | 116.3 | |
| | September | 119.4 | 119.3 | (²) | 115.0 | 112.4 | (²) | (²) | 114.2 | (²) | 116.2 | |
| | October | 122.3 | 122.4 | 118.5 | 117.3 | 114.8 | (²) | 110.5 | 113.1 | (2) | 117.4 | |
| | November | 124.2 | 124.7 | 120.1 | 118.4 | 115.9 | (2) | 110.2 | 114.7 | (2) | 118.9 | |
| | December | 122.2 | 122.9 | 117.8 | 114.1 | 113.0 | (2) | 107.3 | 112.0 | (²) | 118.6 | |

¹Standard Federal Regions are defined in Note 7 on the last two pages of this section. ²Not available for publication due to fewer than four firms reporting. *Sources:* • See the last two pages of this section.

Price Average No. 6 Residual Fuel Oil Prices

| | , | 0.0 to percen | o 0.3 t sulfur | | to 1.0 It sulfur | Greater than 1.0 percent sulfur | | Average | |
|------|---|--|--|--|--|--|--|--|--|
| | | Whole- sale | Retail | Whole- sale | Retail | Whole- sale | Retail | Whole- sale | Retail |
| | | | | D | ollars per barre | el, excluding tax | es | | |
| 1976 | AVERAGE | 12.20 | 12.54 | 10.83 | 11.79 | 9.98 | 10.43 | 10.72 | 11.49 |
| 1977 | AVERAGE | 13.45 | 14.36 | 12.09 | 13.45 | 11.31 | 12.27 | 11.96, | 13.23 |
| 1978 | AVERAGE | 12.77 | 14.47 | 11.95 | 12.78 | 10.73 | 11.70 | 11.51 | 12.75 |
| 1979 | AVERAGE | 19.87 | 21.21 | 18.33 | 19.33 | 15.89 | 16.44 | 17.66 | 18.67 |
| 1980 | AVERAGE | 26.41 | 31.13 | 24.91 | 27.59 | 20.77 | 22.11 | 23.14 | 26.09 |
| 1981 | January February March April May June July August September October November December AVERAGE | 34.27 38.04 37.78 35.66 33.61 28.01 29.56 30.48 29.91 30.26 31.71 31.40 32.97 | 37.23 41.60 41.19 41.71 41.09 38.30 39.02 36.57 39.17 39.90 39.48 37.65 39.31 | 32.12 34.96 34.47 33.10 32.53 26.71 27.38 27.77 27.46 28.64 29.63 28.29 30.56 | 33.96 37.32 38.01 35.94 35.94 32.38 31.93 32.04 32.08 31.88 31.02 32.19 33.69 | 29.12 28.96 29.55 28.35 28.77 25.33 25.62 26.03 24.80 24.96 26.09 25.39 | 31.35 32.02 31.95 30.56 30.64 27.16 25.96 26.20 26.26 26.18 26.45 26.53 28.57 | 31.14 31.81 31.78 30.56 30.41 25.95 26.52 27.01 26.20 26.78 27.99 27.26 28.86 | 33.65 36.04 36.11 34.70 34.11 31.03 30.57 30.52 30.33 30.32 30.16 30.90 32.50 |
| 1982 | January February March April May June July August September October November December | 33.03 31.67 30.95 30.11 30.38 27.98 30.05 28.86 30.22 31.98 32.28 31.31 30.92 | 37.56 38.41 38.96 36.77 37.97 38.93 37.46 31.82 32.41 33.51 34.14 32.59 36.34 | 28.90 29.30 27.60 27.08 27.89 28.26 27.39 27.50 27.73 29.51 29.44 28.19 28.27 | 31.13 30.95 30.57 30.00 30.05 30.89 29.84 30.37 30.45 32.24 32.24 30.25 30.71 | 24.60 23.60 23.45 23.57 25.15 25.35 24.19 25.40 25.21 25.72 26.30 25.16 24.76 | 25.94 24.70 24.21 24.40 25.94 26.56 26.49 26.02 25.93 26.59 26.99 26.22 25.82 | 27.07 26.29 25.73 25.46 26.52 26.62 25.97 26.34 26.49 27.52 28.31 26.81 | 29.83 30.02 29.50 28.21 28.93 29.59 29.33 28.44 28.43 29.28 29.84 28.47 29.08 |

Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Wholesale refers to the price of residual fuel sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and other residual dealers. Retail refers to the price at which residual fuel oil is sold to ultimate consumers such as utility, industrial, commercial, and residential accounts.
Sources: • See the last two pages of this section.

Natural Gas

| | | Average Weilhead Value of Marketed Production | Delivered to Electric Plants ¹ | Average Residential |
|------|-----------|---|--|------------------------|
| | | Dol | lars per thousand cubic feet | • |
| 1973 | AVERAGE | 0.22 | 0.35 | 1.08 |
| 1974 | AVERAGE | 0.30 | 0.49 | 1.25 |
| 1975 | AVERAGE | 0.45 | 0.77 | 1.54 |
| 1976 | AVERAGE | 0.58 | 1.06 | 1.85 |
| 1977 | AVERAGE | 0.79 | 1.33 | 2.26 |
| 1978 | AVERAGE | 0.91 | 1.48 | 2.63 |
| 1979 | AVERAGE | 1.18 | 1.80 | 3.23 |
| 1980 | AVERAGE | 1.59 | 2.28 | 3.95 |
| 1981 | January | 1.77 | 2.51 | 4.10 |
| | February | 1.81 | 2.67 | 4.13 |
| | March | 1.86 | 2.71 | · 4.21 |
| | April | 1.93 | 2.81 | 4.25 |
| | May | 1.95 | 2.92 | 4.61 |
| | June | 1.95 | 2.95 | 4.61 |
| | July | 2.01 | 2.97 | 4.64 |
| | August | 2.02 | 2.99 | 4.70 |
| | September | 2.08 | 2.95 | 4.90 |
| | October | 2.11 | 3.07 | 4.91 |
| | November | 2.15 | 3.07 | 4.88 |
| | December | 2.16 | 2.97 | 4.75 |
| | AVERAGE | 1.98 | 2.91 | 4.56 |
| 1982 | January | 2.21 | 3.07 | 4.86 |
| | February | 2.23 | 3.18 | 4.87 |
| | March | 2.31 | 3.25 | 5.06 |
| | April | 2.35 | 3.32 | 5.18 |
| | May | 2.41 | 3.42 | 5.63 |
| | June | 2.44 | 3.57 | 5.62 |
| | July | 2.45 | 3.69 | 5.60 |
| | August | 2.51 | 3.67 | 5.56 |
| | September | 2.54 | 3.67 | 5.82 |
| | October | 2.56 | 3.68 | 6.11 |
| | November | 2.59 | 3.61 | 5.94 |
| | December | 2.60 | 3.64 | 6.06 |
| | AVERAGE | 2.43 | 3.49 | 5.53 |
| 1983 | January | 2.62 | 13.57 | 6.15 |
| | February | 2.65 | 3.41 | 6.15 |
| | March | R2.64 | 3.44 | 6.17 |
| | April | 2.63 | 3.34 | 6.37 |

Includes all steam and gas turbine engine electric utility generating plants with a combined capacity of 25 megawatts or greater through December 1982. Beginning with January 1983 data, coverage is of steam electric utility generating plants with a combined capacity of 50 megawatts or greater. Small quantities of coke oven gas, refinery gas, and blast furnace gas are included.

R=Revised data.

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

Sources: • See the last two pages of this section.

Price

Electricity

Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants¹

Average Retail Electricity Prices for Privately Owned Utilities²

| | | Coal | Residual Oil ³ | Natural Gas ⁴ | All Fossil Fuels ³ | Residential | Commercial | Industrial | Other | Total ^s |
|------|----------------|----------------|------------------------------|-----------------------------|-------------------------------------|--------------|--------------------------|----------------|--------------|--------------------|
| | | | Cents per | million Btu | | | Cents pe | r kilowatt-hou | ır | |
| 1973 | AVERAGE | 40.5 | 78.8 | 33.8 | 47.5 | 2.54 | 2.41 | 1.25 | 2.10 | 1.96 |
| 1974 | AVERAGE | 71.0 | 191.0 | 48.1 | 90.9 | 3.10 | 3.04 | 1.69 | 2.75 | 2.49 |
| 1975 | AVERAGE | 81.4 | 201.4 | 75.4 | 103.0 | 3.51 | 3.45 | 2.07 | 3.08 | 2.92 |
| 1976 | AVERAGE | 84.8 | 195.9 | 103.4 | 110.4 | 3.73 | 3.69 | 2.21 | 3.27 | 3.09 |
| 1977 | AVERAGE | 94.7 | 220.4 | 130.0 | 127.7 | 4.05 | 4.09 | 2.50 | 3.51 | 3.42 |
| 1978 | AVERAGE | 111.6 | 212.3 | 143.8 | 139.3 | 4.31 | 4.36 | 2.79 | 3.62 | 3.69 |
| 1979 | AVERAGE | 122.4 | 299.7 | 175.4 | 162.1 | 4.64 | 4.68 | 3.05 | 3.96 | 3.99 |
| 1980 | AVERAGE | 135.1 | 427.9 | 221.4 | 190.4 | 5.36 | 5.48 | 3.69 | 4.76 | 4.73 |
| 1981 | January | 142.7 | 540.2 | 245.9 | 219.2 | 5.43 | · 5.72 | 3.94 | 4.92 | 4.96 |
| | February | 146.3 | 572.9 | 260.5 | 218.2 | 5.52 | 5.83 | 3.95 | 5.01 | 4.99 |
| | March | 148.3 | 583.9 | 264.0 | 215.0 | 5.76 | 6.01 | 4.04 | 5.33 | 5.12 |
| | April | 146.9 | 568.3 | 273.5 | 241.9 | 5.99 | 6.14 | 4.07 | 5.20 | 5.20 |
| | May | 146.7 | 552.8 | 282.7 | 250.6 | 6.26 | 6.29 | 4.16 | 5.47 | 5.36 |
| | June | 152.7 | 506.1 | 286.3 | 234.6 | 6.49 | 6.48 | 4.36 | 5.37 | 5.59 |
| | July | 156.5 | 496.3 | 288.6 | 227.5 | 6.58 | 6.47 | 4.48 | 5.61 | 5.76 |
| | August | 157.0 | 494.4 | 291.1 | 220.2 | 6.62 | 6.49 | 4.49 | 5.52 | 5.78 |
| | September | 157.2 | 501.0 | 286.5 | 212.3 | 6.63 | 6.48 | 4.49 | 5.65 | 5.74 |
| | October | 160.2 | 511.9 | 300.7 | 217.7 | 6.57 | 6.52 | 4.40 | 5.31 | 5.64 |
| | November | 159.1 | 521.0 | 300.0 | 215.1 | 6.42 | 6.48 | 4.46 | 5.43 | 5.61 |
| | December | 156.7 | 505.0 | 291.4 | 215.5 | 6.32 | 6.46 | 4.56 | 64.60 | 5.65 |
| | AVERAGE | 153.2 | 529.4 | 282.5 | 222.5 | 6.20 | 6.29 | 4.29 | 5.28 | 5.46 |
| 1982 | January | 160.9 | 484.6 | 301.0 | 226.4 | 6.22 | 6.49 | 4.66 | 5.44 | 5.74 |
| | February | 164.1 | 487.6 | 310.4 | 220.7 | 6.35 | 6.68 | 4.70 | 5.83 | 5.84 |
| | March | 165.7 | 470.9 | 315.8 | 219.8 | 6.58 | 6.79 | 4.83 | 6.38 | 5.97 |
| | April | 164.6 | 478.0 | 323.4 | 214.3 | 6.72 | 6.81 | 4.84 | 5.77 | 5.99 |
| | May | 165.1 | 485.7 | 331.6 | 215.7 | 6.94 | 6.86 | 4.95 | 5.91 | 6.09 |
| | June | 167.0 | 479.6 | 345.8 | 224.7 | 7.08 | 6.94 | 4.92 | 6.01 | 6.18 |
| | July August | 164.5 164.7 | 468.8 458.8 | 335.9 355.7 | 237.6 | 7.18 | 6.98 | 5.12 | 6.13 | 6.38 |
| | September | 165.9 | 456.6 464.4 | 358.5 | 227.6 226.9 | 7.22 7.18 | 6.91 6.97 | 5.14 5.25 | 6.09 6.07 | 6.40 6.41 |
| | October | 164.9 | 479.3 | 360.4 | 220.9 | 7.16 | 7.09 | 5.25 5.09 | 5.81 | 6.33 |
| | November | 165.3 | 493.4 | 351.5 | 218.2 | 6.94 | 7.0 9 7.04 | 4.88 | 5.69 | 6.14 |
| | December | 162.9 | 456.3 | 355.4 | 216.2 | 6.71 | 6.78 | 5.01 | 5.85 | 6.11 |
| | AVERAGE | 164.7 | 475.5 | 340.6 | 222.5 | 6.86 | 6.86 | 4.95 | 5.92 | 6.13 |
| 1983 | January | 166.7 | 444.0 | 346.9 | 214.6 | 6.65 | 6.78 | 5.03 | 5.91 | 6.13 |
| | February | 167.7 | 439.7 | 331.9 | 212.1 | 6.73 | 6.86 | 4.96 | 5.97 | 6.12 |
| | March | 168.1 | 421.0 | 334.9 | 213.9 | 6.93 | 6.93 | 5.07 | 6.16 | 6.23 |
| | April | 168.1 | 435.5 | 325.5 | 215.2 | 6.91 | 6.86 | 4.92 | 6.15 | 6.12 |
| | May† | NA | NA | NA | NA | 7.20 | 7.04 | 4.89 | 6.60 | 6.21 |
| | | | | | | • | | | | |

Includes all steam-electric utility generating plants with a capacity of 25 megawatts or greater through December 1982. Beginning with January 1983 data, coverage is for steam-electric plants with a capacity of 50 megawatts or greater.

The 1973 through 1979 data are for Classes A and B privately owned electric utilities only. The 1980 and forward data are for selected Class A utilities whose electric operating revenues were \$100 million or more during the previous year.

See Note 8 on the last two pages of this section.

Includes small quantities of coke oven gas, refinery gas, and blast furnace gas.

⁵Average price for total sales to ultimate consumers.

fincludes a major adjustment by one utility. †Preliminary data. NA=Not available.

Note: • Geographic coverage for fossil fuels is the lower 48 States and the District of Columbia. For electricity it is the 50 States and the District of Columbia.

Sources: • See the last two pages of this section.

Notes and Sources for the Price Section

Notes

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

1976, the wellhead price represents an average of first sale prices.

2. 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 filling requirements and a different method for handling prior period adjustments, care must be taken in comparing the data collected

The costs previously published for January 1981, viz., \$30.87 per barrel for domestic crude, \$37.59 per barrel for imported, and \$33.40 per barrel for the composite, were from data collected on ERA Form 49. The revised costs are from data collected on EIA Form 14. The January prices are being replaced because the EIA Form 49 data were based on only the 27 days of controlled activity, and because there was considerable recertification of oil, which occurred in January.

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.

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 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.

3. 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.

4. 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 the countries that expect only appropriate to the United States were also excluded. Reginning in March 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.

5. The motor gasoline prices are calculated monthly by the Bureau of Labor Statistics in conjunction with the construction of the Consumer Price Index (CPI). 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 pade self-service.

include those providing all types of service (i.e., full-, mini-, and self-serve).

6. The survey and method used to derive data for March 1976 forward differ from those used for prior months. Data for January 1974 through February 1976 are derived from a survey of distributors, and prices and margins are computed as unweighted averages. The average distributor purchase price and average dealer margin for March 1976 forward are for distributors only, whereas the average selling price includes both refiners and distributors. Data for March 1976 forward are computed as sales weighted averages.

weighted averages.

7. Standard Federal Regions are defined as follows:
Region 1 — Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island;
Region 2 — New York, New Jersey, Puerto Rico, Virgin Islands;
Region 3 — Pennsylvania, Maryland, West Virginia, Virginia, the District of Columbia, Delaware;
Region 4 — Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone;
Region 5 — Minnesotta, Wisconsin, Michigan, Illinois, Indiana, Ohio;

Region 6 — Texas, New Mexico, Oklahoma, Arkansas, Louisiana;

Region 6 — I exas, New Mexico, Oklanoma, Arkansas, Louisiana;
Region 7 — Kansas, Missouri, Iowa, Nebraska;
Region 8 — Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado;
Region 9 — California, Nevada, Arizona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guam;
Region 10 — Washington, Oregon, Idaho, Alaska.

8. Residual 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.

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

• Refiner acquisition costs—Energy Information Administration (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."

No. 6 residual oil prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

No. 2 diesel prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

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

Notes and Sources for the Price Section (continued)

Petroleum and Petroleum Products (continued):

• No. 2 heating oil (residential heating oil) prices-EIA, 1976 through October 1980: 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"; November 1980 forward: EIA Form 9A, "No. 2 Distillate Price Monitoring Report."

Form 9A, "No. 2 Distillate Price Monitoring Report."

• Motor gasoline prices—Bureau of Labor Statistics.

• Propane and butane prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

• Crude oil imports costs—Environmental Protection, Safety and Emergency Preparedness, 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 forward: EP Form 51, "Monthly Foreign Crude Oil Transaction Report."

• Aviation fuel prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

Natural Gas: • Annual data for wellhead values are from the appropriate agencies of the individual producing States and the U.S. Minerals Management Service; monthly data are estimated primarily on the basis of values reported by State agencies in New Mexico, Oklahoma, and Texas, which together provide data for almost 50 percent of total U.S. marketed production excluding nonhydrocarbon gases removed. Monthly data for 1980 and 1981 have been adjusted to conform with final reported annual data.

• Electric plant data—Energy Information Administration (FIA) EPC Form 423 "Monthly Report of Cost and Quality of Eugle for Electric plant data—Energy Information Administration (FIA) EPC Form 423 "Monthly Report of Cost and Quality of Eugle for

Electric plant data—Energy Information Administration (EIA), FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Average residential heating prices—Bureau of Labor Statistics.
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." "Electric Utility Company Monthly Statement."

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International

Crude Oil Production

World crude oil production during April 1983 was 50.9 million barrels per day, up 0.7 million barrels per day (1.5 percent) from the March 1983 level.

Organization of Petroleum Exporting Countries (OPEC) output during April 1983 averaged 15.6 million barrels per day, up 0.6 million barrels per day from the previous month. Average production by Arab members of OPEC was 8.9 million barrels per day, up 0.8 million barrels per day from the March 1983 level. There were production increases in every Arab OPEC country except Iraq, which reported the same level of production as the previous month's average, and Kuwait, which reported a 0.1-millionbarrel-per-day decrease. Saudi Arabia experienced the largest increase in production, 0.5 million barrels per day. Algeria, Libya, Qatar, and the United Arab Emirates each showed increases of 0.1 million barrels per day. Among non-Arab OPEC countries, Indonesia and Nigeria experienced production increases of 0.1 and 0.2 million barrels per day, respectively. Production in Iran and Venezuela declined by 0.2 and 0.4 million barrels per day, respectively.

Of the non-OPEC nations, both Canada and the United Kingdom experienced a 0.1-million-barrel-per-day decline in crude oil production during April 1983. Mexico showed an increase of 0.3 million barrels per day from the level of the month before. The United States experienced a slight increase in production during the month.

Petroleum Consumption

Preliminary petroleum consumption data for April 1983 were available for Canada, France, Italy, and the United States. In comparison to April 1982, consumption in the United States, Canada, and Italy decreased by 1.3, 0.2, and 0.1 million barrels per day, respectively. There was a decrease of less

than 0.1 million barrels per day in the level of consumption in France compared to the level a year earlier.

Petroleum Stocks

Preliminary data on petroleum stocks for April 1983 were available for Canada, France, Italy, Japan, the United Kingdom, the United States, and West Germany. Petroleum stocks in West Germany and France were down compared to the April 30, 1982, level by 18.3 and 17.4 percent, respectively. Canada, Japan, and Italy showed declines of 16.9, 12.6, and 1.9 percent, respectively. The United States reported a 1.9-percent increase in stocks compared to the level at the end of April 1982.

Petroleum stocks for all Organization for Economic Cooperation and Development members stood at 3,168 million barrels on March 31, 1983 (latest data available), a decrease of 163 million barrels (4.9 percent) compared to stocks held on March 31, 1982.

Nuclear Electricity Production

In May 1983, the 19 non-Communist nations with significant nuclear power capacity generated 64.4 billion gross kilowatt-hours of nuclear-based electricity. On a per-hour basis, this output was down 6.1 percent from April 1983 generation, but up 4.2 percent compared to generation during May 1982.

On May 16, 1983, Blayais-4, a 957-gross megawatt pressurized water reactor operated by Electricite de France, generated its first electricity.

The addition of Blayais-4 brought the total number of operational, non-Communist power reactors, as of May 31, 1983, to 241, with a collective generating capacity of 166.0 million gross kilowatts (GWe). The 81 U.S. units accounted for 68.6 GWe (41.3 percent) of this capacity.

Part 10

International

Crude Oil Production for Major Petroleum Producing Countries

| | Algeria | Iraq | Kuwait¹ | Libya | Qatar | Saudi Arabia¹ | United Arab Emirates | Arab Members of OPEC ² | Indo- nesia | Iran |
|--|---|--|--|---|--|---|---|--|--|--|
| | | | | Thous | sand barre | els per day | | | | |
| AVERAGE | 1,097 | 2,018 | 3,020 | 2,175 | 570 | 7,596 | 1,533 | 18,009 | 1,339 | 5,861 |
| AVERAGE | 1,009 | 1,971 | 2,546 | 1,521 | 518 | 8,480 | 1,679 | 17,724 | 1,375 | 6,022 |
| AVERAGE | 983 | 2,262 | 2,084 | 1,480 | 438 | 7,075 | 1,664 | 15,986 | 1,307 | 5,350 |
| AVERAGE | 1,075 | 2,415 | 2,145 | 1,933 | 497 | 8,577 | 1,936 | 18,578 | 1,504 | 5,883 |
| AVERAGE | 1,152 | 2,348 | 1,969 | 2,063 | 445 | 9,245 | 1,999 | 19,221 | 1,686 | 5,663 |
| AVERAGE | 1,161 | 2,563 | 2,131 | 1,983 | 487 | 8,301 | 1,831 | 18,457 | 1,635 | 5,242 |
| | • | • | • | 2,092 | 508 | 9,532 | 1,831 | 21,094 | 1,591 | 3,168 |
| _ | , | • | • • | 1,787 | 472 | 9,900 | 1,709 | 19,050 | 1,577 | 1,662 |
| January February March April May June July August September October November December AVERAGE January February | 950 950 950 900 900 800 725 600 550 700 800 805 | 600 700 1,000 1,000 1,000 1,100 1,100 1,100 1,100 1,100 1,500 | 1,765 1,565 1,560 995 990 1,080 1,200 830 855 985 890 895 1,125 | 1,600 1,650 1,600 1,600 1,400 1,200 750 700 700 900 1,000 1,140 | 505 480 505 515 435 340 380 295 365 360 340 405 405 | 10,265 10,265 10,110 10,195 10,140 10,180 10,170 10,330 9,155 9,685 8,640 8,645 9,815 8,655 8,440 | 1,620 1,605 1,610 1,570 1,550 1,435 1,415 1,480 1,465 1,480 1,365 1,430 1,474 | 17,305 17,215 17,335 16,775 16,415 16,035 15,740 15,335 14,190 15,010 13,985 14,210 15,764 14,615 13,830 | 1,630 1,620 1,635 1,630 1,600 1,600 1,600 1,600 1,600 1,600 1,580 1,490 1,450 | 1,600 1,700 1,700 1,600 1,500 1,600 1,400 1,100 920 930 1,200 1,380 |
| April May June July August September October November December AVERAGE January February March | 600 620 650 650 700 800 800 800 710 700 600 | 900 750 750 800 800 800 800 800 972 800 800 800 | 680 720 840 870 920 885 860 915 850 827 780 895 960 | 700 800 1,000 1,300 1,300 1,400 1,700 1,750 1,158 1,100 900 900 | 230 320 410 275 340 285 380 310 305 328 255 200 170 | 6,630 5,870 6,670 6,170 5,920 5,685 5,660 5,615 5,250 6,470 4,750 3,710 3,610 | 1,215 1,125 1,210 1,160 1,155 1,155 1,155 1,155 1,155 1,155 1,155 1,030 1,030 1,010 | 10,955 10,205 11,530 11,225 11,135 11,010 11,355 11,295 10,910 11,679 9,415 8,135 8,050 | 1,245 1,240 1,305 1,305 1,240 1,300 1,370 1,400 1,360 1,339 1,155 945 1,100 | 1,800 1,800 2,500 2,500 2,500 2,700 2,700 2,700 2,700 2,800 2,214 2,500 2,500 2,500 2,300 |
| | AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE January February March April May June July August September October November December AVERAGE January February March April May June July August September October November December AVERAGE January February August September October November December AVERAGE January February February | AVERAGE 1,097 AVERAGE 983 AVERAGE 983 AVERAGE 1,075 AVERAGE 1,152 AVERAGE 1,161 AVERAGE 1,164 AVERAGE 1,154 AVERAGE 1,012 January 950 March 950 April 900 May 900 June 800 July 725 August 600 September 550 October 700 November 750 December 800 AVERAGE 805 January 800 February 800 February 700 March 600 AVERAGE 805 June 650 July 650 August 700 September 800 AVERAGE 800 AVERAGE 800 AVERAGE 800 AVERAGE 800 AUIU 650 August 700 September 800 AUIU 650 August 700 September 800 October 800 November 800 December 800 AUIU 650 August 700 September 800 December 800 | AVERAGE 1,097 2,018 AVERAGE 1,009 1,971 AVERAGE 983 2,262 AVERAGE 1,075 2,415 AVERAGE 1,152 2,348 AVERAGE 1,161 2,563 AVERAGE 1,154 3,477 AVERAGE 1,012 2,514 January 950 600 February 950 700 March 950 1,000 April 900 1,000 June 800 1,000 June 800 1,000 June 800 1,000 June 800 1,000 August 600 1,100 September 550 1,100 October 700 1,100 November 750 1,100 December 800 1,100 AVERAGE 805 1,000 January 800 1,500 February 700 1,500 May 620 750 June 650 750 July 650 800 August 700 800 September 800 800 October 800 800 November 800 800 October 800 800 August 700 800 September 800 800 August 700 800 September 800 800 October 800 800 November 800 800 October 800 800 November 800 800 December 800 800 August 700 800 September 800 800 October 800 800 November 800 800 December 800 800 AVERAGE 710 972 January 700 800 February 600 800 March 600 800 | AVERAGE 1,097 2,018 3,020 AVERAGE 1,009 1,971 2,546 AVERAGE 983 2,262 2,084 AVERAGE 1,075 2,415 2,145 AVERAGE 1,152 2,348 1,969 AVERAGE 1,161 2,563 2,131 AVERAGE 1,161 2,563 2,131 AVERAGE 1,154 3,477 2,500 AVERAGE 1,012 2,514 1,656 January 950 600 1,765 February 950 700 1,565 March 950 1,000 995 May 900 1,000 995 May 900 1,000 995 May 900 1,000 990 July 725 1,100 1,200 August 600 1,100 830 September 550 1,100 855 October 700 1,100 855 October 700 1,100 985 November 750 1,100 895 AVERAGE 805 1,000 1,125 January 800 1,500 805 February 700 1,500 805 April 600 900 680 May 620 750 720 June 650 750 840 July 650 800 870 August 700 800 920 September 800 800 860 November 800 800 800 November 800 800 805 AVERAGE 710 972 827 January 700 800 780 February 600 800 895 AVERAGE 710 972 827 | AVERAGE 1,097 2,018 3,020 2,175 AVERAGE 1,009 1,971 2,546 1,521 AVERAGE 983 2,262 2,084 1,480 AVERAGE 1,075 2,415 2,145 1,933 AVERAGE 1,152 2,348 1,969 2,063 AVERAGE 1,161 2,563 2,131 1,983 AVERAGE 1,161 2,563 2,131 1,983 AVERAGE 1,154 3,477 2,500 2,092 AVERAGE 1,012 2,514 1,656 1,787 January 950 600 1,765 1,650 March 950 1,000 1,565 1,650 March 950 1,000 995 1,600 April 900 1,000 995 1,600 April 900 1,000 995 1,600 May 900 1,000 990 1,400 June 800 1,000 1,080 1,200 July 725 1,100 1,200 750 August 600 1,100 855 700 October 700 1,100 855 700 November 550 1,100 855 700 November 750 1,100 895 900 December 800 1,000 1,080 1,000 AVERAGE 805 1,000 1,125 1,140 January 800 1,500 805 1,000 AVERAGE 805 1,000 1,125 1,140 January 800 1,500 805 1,000 AVERAGE 805 1,000 840 600 April 600 900 680 700 May 620 750 720 800 July 650 800 870 1,300 September 800 800 920 1,300 September 800 800 920 1,300 September 800 800 920 1,300 September 800 800 885 1,400 October 800 800 885 1,400 October 800 800 860 1,750 AVERAGE 710 972 827 1,158 January 700 800 985 900 March 600 800 895 900 | AVERAGE 1,097 2,018 3,020 2,175 570 AVERAGE 1,009 1,971 2,546 1,521 518 AVERAGE 983 2,262 2,084 1,480 438 AVERAGE 1,075 2,415 2,145 1,933 497 AVERAGE 1,152 2,348 1,969 2,063 445 AVERAGE 1,152 2,348 1,969 2,063 445 AVERAGE 1,161 2,563 2,131 1,983 487 AVERAGE 1,154 3,477 2,500 2,092 508 AVERAGE 1,012 2,514 1,656 1,787 472 January 950 600 1,765 1,600 505 February 950 700 1,565 1,650 480 March 950 1,000 995 1,600 505 April 900 1,000 995 1,600 505 April 900 1,000 995 1,600 505 April 900 1,000 990 1,400 435 June 800 1,000 1,080 1,200 340 July 725 1,100 855 700 365 October 700 1,100 895 700 365 November 550 1,100 855 700 365 November 750 1,100 895 700 360 November 750 1,100 895 1,000 340 AVERAGE 805 1,000 1,125 1,140 405 January 800 1,500 805 1,000 405 February 700 1,500 840 600 375 March 600 1,500 840 600 375 March 600 1,500 840 600 375 March 600 1,500 840 600 375 August 700 800 900 340 AVERAGE 805 1,000 1,125 1,140 405 January 800 1,500 805 1,000 405 February 700 1,500 840 600 375 March 600 1,500 840 600 375 August 700 800 920 1,300 340 September 800 800 860 700 230 May 620 750 720 800 320 June 650 800 870 1,300 375 August 700 800 920 1,300 340 September 800 800 865 1,700 360 November 800 800 865 1,700 360 November 800 800 865 1,700 365 AVERAGE 710 972 827 1,158 328 January 700 800 780 1,100 255 February 600 800 800 856 900 200 March 600 800 800 805 900 200 | AVERAGE 1,097 2,018 3,020 2,175 570 7,596 AVERAGE 1,009 1,971 2,546 1,521 518 8,480 AVERAGE 983 2,262 2,084 1,480 438 7,075 AVERAGE 1,075 2,415 2,145 1,933 497 8,577 AVERAGE 1,152 2,348 1,969 2,063 445 9,245 AVERAGE 1,161 2,563 2,131 1,983 487 8,301 AVERAGE 1,154 3,477 2,500 2,092 508 9,532 AVERAGE 1,012 2,514 1,656 1,787 472 9,900 January 950 600 1,765 1,600 505 10,265 February 950 700 1,565 1,650 480 10,265 March 950 1,000 1,565 1,650 480 10,265 March 950 1,000 1,560 1,600 505 10,110 April 900 1,000 995 1,600 505 10,110 April 900 1,000 995 1,600 505 10,110 April 900 1,000 990 1,400 435 10,140 June 800 1,000 1,080 1,200 340 10,180 July 725 1,100 1,200 750 380 10,170 August 600 1,100 830 700 295 10,330 September 550 1,100 855 700 365 9,155 October 700 1,100 895 700 365 9,155 October 700 1,100 895 700 360 9,685 November 750 1,100 895 700 360 9,685 November 750 1,100 895 1,000 340 8,645 AVERAGE 805 1,000 1,125 1,140 405 9,815 January 800 1,500 805 1,000 405 8,655 February 700 1,500 840 600 375 8,440 March 600 1,500 745 600 300 7,145 April 600 900 680 700 230 6,630 May 620 750 720 800 320 5,660 July 650 800 870 1,300 275 6,170 August 700 800 885 1,400 285 5,685 October 800 800 860 1,700 330 5,660 November 800 800 885 1,400 285 5,685 October 800 800 865 1,700 305 5,250 AVERAGE 710 972 827 1,158 328 6,470 March 600 800 895 900 200 3,710 March 600 800 895 900 200 3,710 | AVERAGE 1,097 2,018 3,020 2,175 570 7,596 1,533 AVERAGE 1,009 1,971 2,546 1,521 518 8,480 1,679 AVERAGE 983 2,262 2,084 1,480 438 7,075 1,664 AVERAGE 1,075 2,415 2,145 1,933 497 8,577 1,936 AVERAGE 1,152 2,348 1,969 2,063 445 9,245 1,999 AVERAGE 1,161 2,563 2,131 1,983 487 8,301 1,831 AVERAGE 1,161 2,563 2,131 1,983 487 8,301 1,831 AVERAGE 1,161 2,563 2,131 1,983 487 8,301 1,831 AVERAGE 1,161 2,563 1,1656 1,787 472 9,900 1,709 January 950 600 1,765 1,660 505 10,265 1,620 February 950 700 1,565 1,650 480 10,265 1,620 February 950 700 1,565 1,600 505 10,110 1,610 April 900 1,000 995 1,600 515 10,110 1,610 April 900 1,000 995 1,600 515 10,110 1,610 April 900 1,000 995 1,400 435 10,140 1,550 Jule 800 1,000 1,080 750 380 10,170 1,415 August 600 1,100 830 700 295 10,330 1,480 September 550 1,100 855 700 365 9,155 1,465 Cotober 700 1,100 895 700 360 9,685 1,480 November 750 1,100 895 700 360 9,685 1,480 AVERAGE 805 1,000 1,125 1,140 405 9,815 1,474 January 800 1,500 840 600 375 8,440 1,375 March 600 1,500 840 600 375 8,440 1,375 March 600 1,500 840 600 375 8,440 1,375 May 620 750 840 1,000 410 6,670 1,125 July 650 800 870 1,300 340 8,645 1,365 AVERAGE 710 972 827 1,158 328 6,470 1,125 AVERAGE 710 972 827 1,158 328 6,470 1,121 January 700 800 880 885 1,400 285 5,685 1,155 October 800 800 886 1,700 380 5,660 1,155 November 800 800 886 1,700 380 5,660 1,155 AVERAGE 710 972 827 1,158 328 6,470 1,214 January 700 800 880 885 1,700 305 5,255 1,155 AVERAGE 710 972 827 1,158 328 6,470 1,214 | AVERAGE 1,05 2,348 1,969 2,063 445 9,245 1,999 19,221 AVERAGE 1,101 2,514 1,656 1,765 1,660 505 10,265 1,603 1,731 2,100 AVERAGE 1,012 2,514 1,656 1,765 1,660 505 10,265 1,660 1,735 April 900 1,000 995 1,600 505 10,101 1,610 17,335 April 900 1,000 995 1,600 515 10,195 1,570 16,41 15,335 April 900 1,000 995 1,600 515 10,195 1,570 16,41 15,335 April 900 1,100 830 700 295 10,300 1,415 15,335 April 900 1,100 830 700 295 10,300 1,415 15,335 April 900 1,100 830 700 295 10,300 1,415 15,335 April 900 1,100 830 700 295 10,300 1,415 15,335 April 900 1,100 830 700 295 10,300 1,415 15,335 April 900 1,100 830 700 295 10,300 1,415 15,335 April 900 1,100 830 700 295 10,300 1,415 15,335 April 900 1,000 995 1,600 515 10,190 1,535 16,355 April 900 1,000 995 1,600 515 10,190 1,415 15,335 April 900 1,000 995 1,600 515 10,190 1,415 15,335 April 900 1,000 995 1,600 505 10,265 1,650 16,415 Julne 800 1,100 830 700 295 10,300 1,415 15,335 April 900 1,000 995 1,600 515 10,190 1,415 15,704 August 600 1,100 830 700 295 10,300 1,415 15,704 August 600 1,100 830 700 295 10,300 1,415 15,335 April 900 1,000 895 700 365 9,155 1,465 1,490 Tochoer 700 1,100 830 700 295 10,300 1,415 15,335 April 900 1,000 895 700 365 9,155 1,465 1,490 Tochoer 700 1,100 830 700 295 10,300 1,415 15,335 April 900 1,000 895 900 340 8,640 1,365 13,985 December 800 1,100 895 700 360 9,685 1,460 13,655 13,985 December 800 1,100 895 700 360 9,685 1,450 14,210 1,506 March 600 1,500 805 700 360 9,815 1,450 14,515 1,574 March 600 1,500 800 800 800 800 800 800 800 800 800 | AVERAGE |

Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In April 1983, total production in this region amounted to approximately 400,000 barrels per day.

Arab members of the Organization of Petroleum Exporting Countries (OPEC) include Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the Libited Arab Emirotae.

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. Additional footnotes on following page.

Crude Oil Production for Major Petroleum Producing Countries (continued)

| | | Nigeria | Vene- zuela | Total OPEC ³ | Canada | Mexico | United Kingdom | United States | China | USSR | Other | World |
|------|---|---|---|---|---|--|--|---|--|--|--|---|
| | | | | | - | Thousand | l barrels pe | r day | | | | |
| 1973 | AVERAGE | 2,054 | 3,366 | 30,989 | 1,800 | 465 | 2 | 9,208 | 1,090 | 8,465 | 3,655 | 55,674 |
| 1974 | AVERAGE | 2,255 | 2,976 | 30,729 | 1,684 | 571 | 2 | 8,774 | 1,315 | 9,000 | 3,777 | 55,852 |
| 1975 | AVERAGE | 1,783 | 2,346 | 27,155 | 1,439 | 705 | 12 | 8,375 | 1,490 | 9,625 | 4,079 | 52,880 |
| 1976 | AVERAGE | 2,067 | 2,294 | 30,738 | 1,295 | 831 | 245 | 8,132 | 1,670 | 10,143 | 4,258 | 57,312 |
| 1977 | AVERAGE | 2,085 | 2,238 | 31,278 | 1,320 | 981 | 768 | 8,245 | 1,874 | 10,682 | 4,537 | 59,685 |
| 1978 | AVERAGE | 1,897 | 2,166 | 29,805 | 1,313 | 1,209 | 1,082 | 8,707 | 2,082 | 11,185 | 4,674 | 60,057 |
| 1979 | AVERAGE | 2,302 | 2,356 | 30,928 | 1,496 | 1,461 | 1,568 | 8,552 | 2,122 | 11,460 | 4,948 | 62,535 |
| 1980 | AVERAGE | 2,055 | 2,168 | 26,890 | 1,435 | 1,936 | 1,622 | 8,597 | 2,114 | 11,773 | 5,171 | 59,538 |
| 1981 | January February March April May June July August September October November December AVERAGE | 1,900 1,960 1,875 1,625 1,295 1,350 770 710 1,065 1,250 1,590 1,820 1,433 | 2,220 2,195 2,240 2,200 1,990 1,760 1,960 2,080 1,970 2,230 2,260 2,102 | 25,025 25,075 25,190 24,215 23,380 22,945 21,620 20,385 21,200 20,575 21,230 22,624 | 1,390 1,390 1,280 1,330 1,250 1,235 1,270 1,235 1,265 1,120 1,280 1,380 1,285 | 2,220 2,120 2,365 2,540 2,545 2,300 2,095 2,260 2,480 2,490 2,090 1,980 2,313 | 1,765 1,820 1,885 1,750 1,770 1,765 1,750 1,760 1,830 1,845 1,840 1,870 | 8,540 8,604 8,613 8,557 8,501 8,629 8,500 8,583 8,604 8,563 8,586 8,585 | 2,024 2,025 2,025 2,011 2,025 2,020 2,020 2,020 2,020 2,020 2,020 2,012 | 11,900 11,900 11,900 11,900 11,900 11,900 11,900 11,900 11,900 11,900 11,900 | 5,111 5,161 5,152 5,122 5,264 5,066 5,215 4,962 5,166 5,247 5,109 5,135 5,262 | 57,975 58,095 58,410 57,425 56,635 55,865 54,360 53,770 53,620 54,385 53,400 54,100 55,788 |
| 1982 | January February March April May June July August September October November December AVERAGE | 1,765 1,395 945 890 1,310 1,645 1,280 1,105 1,170 1,480 1,355 1,215 | 1,985 1,730 1,870 1,490 1,480 1,500 1,800 2,000 1,990 2,160 2,300 2,325 1,891 | 21,285 19,950 18,615 16,725 17,075 18,845 18,450 18,045 18,515 19,430 19,415 18,985 | 1,114 1,330 1,235 1,300 1,300 1,310 1,420 1,300 | 2,315 2,550 2,545 2,780 2,715 2,790 2,795 2,830 2,900 2,940 3,025 2,749 | 1,905 1,955 2,000 2,110 2,085 2,140 2,120 2,125 2,175 2,165 2,220 2,315 2,117 | 8,669 8,690 8,597 8,652 8,660 8,681 8,701 8,733 8,676 8,690 8,660 8,671 | 2,020 2,020 2,025 2,025 2,025 2,025 2,025 2,025 2,040 2,040 2,040 2,029 | 11,900 11,900 11,900 11,900 11,900 12,000 12,000 12,000 12,410 12,410 12,410 12,453 | 5,488 5,560 5,341 5,480 5,526 5,549 5,506 5,549 5,497 5,489 5,685 5,730 5,550 | 54,800 53,900 52,200 50,600 51,100 53,200 52,775 52,540 53,075 54,420 54,465 53,190 |
| 1983 | January February March April | 880 675 905 1,150 | 2,085 1,780 2,080 1,715 | 16,415 14,370 15,000 15,620 | 1,360 1,395 | 2,980 2,295 2,415 2,670 | 2,135 2,315 2,265 2,170 | 8,634 8,660 8,677 8,686 | 2,085 2,085 2,085 2,085 | 12,410 12,410 12,410 12,410 | 5,853 5,958 5,916 5,994 | 51,742 49,453 50,163 50,895 |

Footnotes continued.

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

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

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

Sources: • See the last page of this section.

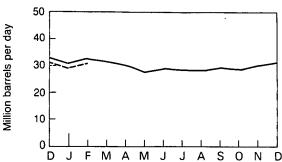
Petroleum Consumption for Major Non-Communist Industrialized Countries¹

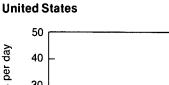
| | | Canada | France ² | Italy | Japan | United Kingdom | United States | West Germany | Other IEA ³ | Total IEA¹ |
|------|---|---|---|---|--|--|---|--|--|---|
| | | | | | Thou | sand barrels p | oer day | | | • |
| 1973 | AVERAGE | 1,597 | 2,219 | 1,525 | 5,000 | 1,958 | 17,308 | 2,693 | 4,069 | 34,150 |
| 1974 | AVERAGE | 1,630 | 2,094 | 1,521 | 4,872 | 1,829 | 16,653 | 2,408 | 4,047 | 32,960 |
| 1975 | AVERAGE | 1,595 | 1,925 | 1,468 | 4,568 | 1,633 | 16,322 | 2,319 | 3,905 | 31,810 |
| 1976 | AVERAGE | 1,647 | 2,075 | 1,503 | 4,786 | 1,601 | 17,461 | 2,507 | 4,265 | 33,770 |
| 1977 | AVERAGE | 1,661 | 1,973 | 1,476 | 5,015 | 1,655 | 18,431 | 2,478 | 4,214 | 34,930 |
| 1978 | AVERAGE | 1,701 | 2,077 | 1,551 | 5,115 | 1,683 | 18,847 | 2,596 | 4,387 | 35,880 |
| 1979 | AVERAGE. | 1,766 | 2,107 | 1,607 | 5,173 | 1,690 | 18,513 | 2,664 | 4,487 | 35,900 |
| 1980 | AVERAGE | 1,730 | 1,965 | 1,602 | 4,680 | 1,420 | 17,056 | 2,360 | 4,152 | 33,000 |
| 1981 | January February March April May June July August September October November December AVERAGE | 1,760 1,770 1,550 1,600 1,490 1,635 1,630 1,595 1,585 1,595 1,635 | 2,310 2,170 1,790 1,500 1,670 1,600 1,450 1,160 1,425 1,655 2,010 2,215 | 1,880 2,195 1,895 1,785 1,410 1,510 1,580 1,360 1,715 1,600 1,650 1,930 1,705 | 4,980 5,350 5,020 4,140 3,600 3,915 4,160 4,100 4,060 4,085 4,610 5,425 | 1,400 1,460 1,430 1,290 1,190 1,210 1,170 1,125 1,285 1,390 1,470 1,380 1,325 | 18,430 16,989 15,907 15,350 15,353 16,095 15,682 15,263 15,655 15,822 15,593 16,596 16,058 | 2,230 2,510 2,100 1,810 1,880 2,155 2,150 2,111 2,085 2,305 2,030 2,100 2,120 | 4,420 4,126 3,598 3,925 3,977 3,880 4,138 3,711 3,905 4,013 4,052 3,934 4,032 | 35,100 34,400 31,500 29,900 28,900 30,400 30,500 29,300 30,300 30,800 31,000 33,000 31,300 |
| 1982 | January February March April May June July August September October November December AVERAGE | 1,530 1,715 1,510 1,350 1,325 1,430 1,390 1,500 1,410 1,335 1,470 1,460 1,450 | 1,770 1,815 1,940 1,730 1,580 1,505 1,455 1,295 1,510 1,605 1,735 1,815 1,645 | 1,800 1,795 1,805 1,560 1,510 1,520 1,475 1,410 1,630 1,555 1,650 1,670 | 4,645 5,275 4,640 4,015 3,515 3,780 3,995 3,705 3,865 3,830 4,355 4,810 4,196 | 1,400 1,465 1,560 1,340 1,210 1,280 1,235 1,170 1,295 1,305 1,415 1,380 1,337 | 15,890 15,941 15,560 16,048 14,845 14,931 14,771 14,838 14,921 14,820 15,031 15,508 15,253 | 1,935 2,230 2,340 2,125 1,770 2,115 1,955 2,105 2,035 1,922 2,005 2,025 2,045 | 3,800 4,179 4,185 3,962 3,625 3,704 3,679 3,672 4,044 3,933 4,174 4,347 4,005 | 31,000 32,600 31,600 30,400 27,800 28,900 28,500 28,400 29,200 28,700 30,100 31,200 29,900 |
| 1983 | January February March April | 1,260 1,430 1,305 1,190 | 1,685 1,985 1,685 1,695 | 1,675 1,865 1,605 1,415 | 4,410 4,950 4,595 NA | 1,260 1,415 1,430 NA | 14,765 14,772 15,484 14,779 | 1,875 2,060 NA NA | 4,055 4,308 NA NA | 29,300 30,800 NA NA |

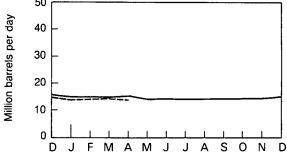
¹These data represent inland consumption, i.e., sales of petroleum products excluding refinery fuel, refinery losses, and ocean bunkers except for the United States, where it represents domestic products supplied.
²Not a member of the International Energy Agency (IEA).
³Other is a calculated total derived from the difference between total IEA consumption and the IEA nations represented above.
¹The 21 signatory nations of the IEA are listed in Note 1 on the last page of this section.
NA=Not available.
Notes: • U.S. geographic coverage is the 50 States and the District of Columbia.
• Data for 1980 through 1983 are preliminary.
Sources: • See the last page of this section.

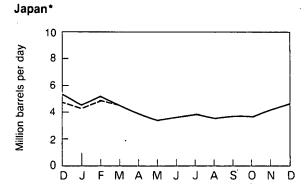
Petroleum Consumption

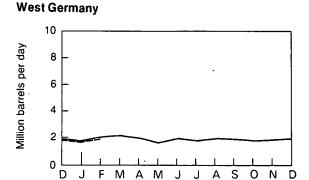
Total IEA 50

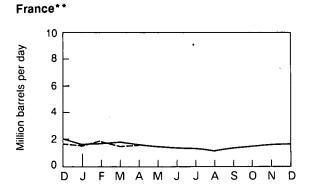


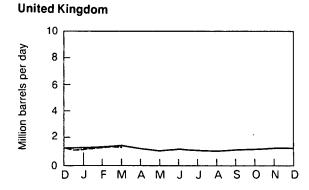


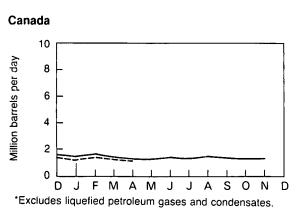


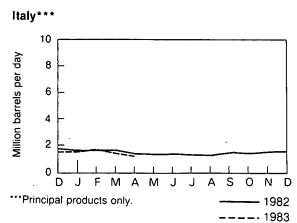












^{**}Not a member of IEA.

International

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

| | | Canada | France | Italy | Japan | United Kingdom | United States | West Germany | Other OECD ² | Total OECD ³ |
|------|---|---|--|---|--|---|--|--|--|--|
| | | | | | | Million barrel | s | | | |
| 1973 | | 149 | 203 | NA | 303 | 156 | 1,008 | NA | NA | NA |
| 1974 | | 164 | 240 | 169 | 370 | 191 | 1,074 | 215 | NA | NA |
| 1975 | | 167 | 239 | 143 | 375 | 164 | 1,133 | · 190 | NA | NA |
| 1976 | | 156 | 231 | 142 | 394 | 165 | 1,112 | 214 | NA | NA |
| 1977 | | 170 | 241 | 162 | 399 | 147 | 1,312 | 236 | 485 | 3,152 |
| 1978 | | 148 | 214 | 153 | 422 | 147 | 1,278 | 239 | 487 | 3,089 |
| 1979 | | 156 | 231 | 163 | 457 | 163 | 1,341 | 273 | 574 | 3,358 |
| 1980 | | 171 | 254 | 173 | 481 | 169 | 1,392 | 323 | 610 | 3,573 |
| 1981 | January February March April May June July August September October November December | 169 162 165 174 176 179 184 181 172 163 164 | 234 235 227 235 229 225 228 233 241 238 230 222 | 155 184 158 169 173 171 177 189 187 188 178 | 479 457 452 484 496 484 476 483 493 500 483 466 | 168 170 164 165 162 158 153 151 151 149 147 | 1,388 1,389 1,401 1,415 1,438 1,439 1,439 1,457 1,476 1,485 1,501 1,484 | 319 312 317 322 321 312 305 308 307 303 300 297 | NA NA 581 NA NA 598 NA NA 591 NA NA 575 | NA NA 3,465 NA NA 3,557 NA NA 3,627 NA NA 3,627 |
| 1982 | January February March April May June July August September October November December | 163 156 149 148 147 131 130 137 131 135 138 | 222 215 207 201 193 200 205 207 212 212 213 201 | 165 162 158 154 154 156 160 179 179 177 174 | 464 460 480 483 484 478 460 470 472 471 472 469 | NA NA 133 NA NA 141 134 139 137 135 130 | 1,461 1,431 1,401 1,350 1,349 1,362 1,394 1,407 1,415 1,434 1,455 1,429 | 280 280 279 312 310 288 286 311 280 279 280 273 | NA 524 NA NA 541 NA NA 548 NA NA 542 | NA NA 3,331 NA NA 3,297 NA NA 3,374 NA NA 3,351 |
| 1983 | January February March April | 136 133 R127 123 | 206 187 170 166 | 170 163 R155 151 | 473 450 R427 422 | 125 121 R120 118 | 1,453 1,432 1,375 1,376 | 274 274 R262 255 | NA NA 532 NA | NA NA 3,168 NA |

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.

² "Other OECD" includes Organization of Economic Cooperation and Development (OECD) members not shown.

³ The members of OECD are listed in Note 2 on the last page of this section.

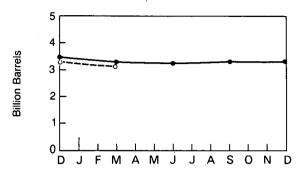
R=Revised data. NA=Not available.

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

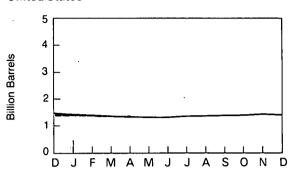
Totals may not equal sum of components due to independent rounding. Sources: • See the last page of this section.

Petroleum Stocks

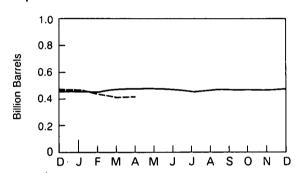
. Total OECD



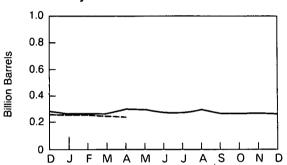
United States



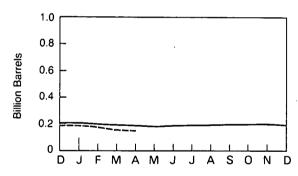
Japan



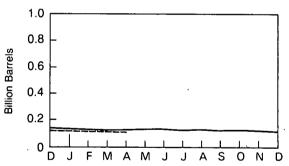
West Germany



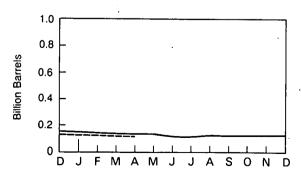
France



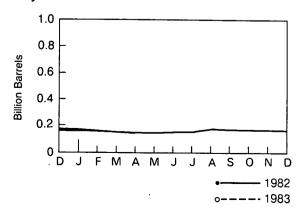
United Kingdom



Canada



Italy



Nuclear Electricity Generation by Non-Communist Countries¹

| | | Argen- tina | Belgium | Brazil | Canada | Finland | France | India | Italy | Japan | Nether- lands | Paki- stan |
|------|---|---|--|---|--|--|---|--|--|--|--|---|
| | | | | | | Billion gro | oss kilowat | t-hours | | | | |
| 1973 | TOTAL | 0 | 0. | 0 | 18.3 | 0 | 11.6 | 1.9 | 3.1 | 9.4 | 1.1 | 0.5 |
| 1974 | TOTAL | 1.0 | 0.1 | 0 | 15.4 | 0 | 14.7 | 2.5 | 3.4 | 18.1 | 3.3 | 0.6 |
| 1975 | TOTAL | 2.5 | 6.8 | 0 | 13.2 | 0 | 18.3 | 2.5 | 3.8 | 22.2 | 3.3 | 0.5 |
| 1976 | TOTAL | 2.6 | 10.0 | 0 | 18.0 | 0 | 15.8 | 3.2 | 3.8 | 36.7 | 3.9 | 0.5 |
| 1977 | TOTAL | 1.6 | 11.9 | 0 | 26.8 | 2.7 | 17.9 | 2.8 | 3.4 | 28.1 | 3.7 | 0.3 |
| 1978 | TOTAL | 2.9 | 12.5 | 0 | 32.9 | 3.3 | 30.5 | 2.3 | 4.4 | 53.2 | 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 | January February March April May June July August September October November December TOTAL | 0.3 0.2 0.3 0.2 0.2 0.2 0.3 0.2 0.3 0.2 0.2 0.2 0.2 | 1.2 1.0 0.6 0.7 1.2 1.3 1.2 0.9 1.0 1.3 1.3 | 0 0 0 0 0 0 0 0 0 | 3.2 3.5 3.9 3.3 3.4 3.6 4.0 4.0 3.3 3.4 3.5 4.1 | 1.3 0.9 1.4 1.5 1.0 0.7 0.8 1.4 1.5 1.4 1.3 1.2 | 9.3 8.6 8.8 8.9 8.3 8.4 7.7 8.5 8.1 9.3 11.0 | 0.2 0.2 0.3 0.4 0.3 0.2 0.2 0.2 0.2 0.3 3.1 | 0.2 0.3 0.1 0.6 0.3 0.1 0.3 0.1 0.1 0.1 0.4 2.7 | 8.2 7.1 7.8 7.9 8.0 6.7 8.3 8.5 6.4 5.6 5.3 6.1 | 0.1 (s) 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.3 3.7 | (s) (s) 0 (s) (s) (s) (s) (s) (s) (s) 0 |
| 1982 | January February March April May June July August September October November December | 0.3 0.2 0.3 0.3 0.3 0.2 0 (s) 0 (s) | 1.3 0.8 0.5 1.0 1.3 1.2 1.3 1.2 0.7 1.7 1.8 1.8 | 0 0 (s) (s) (s) 0 0 0 0 | 4.1 3.2 3.5 3.7 3.1 3.3 3.6 3.9 3.2 4.0 3.3 3.8 42.6 | 1.5 1.5 1.7 1.6 1.3 0.9 1.2 1.5 1.5 1.4 1.3 1.3 | 11.0 10.0 10.6 10.1 9.0 7.8 8.3 7.0 7.2 6.6 8.3 13.0 | 0.2 0.2 0.2 0.2 0.1 0.1 0.2 0.1 0.2 0.3 0.2 2.2 | 0.6 0.7 0.7 0.5 0.7 0.6 0.4 0.6 0.3 0.5 6.8 | 8.1 7.7 9.2 9.7 9.5 9.5 9.8 9.7 8.0 7.5 7.8 8.1 | 0.4 0.1 (s) 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 3.9 | (s) (s) 0 0 0 0 (s) (s) (s) 0 0 |
| 1983 | January February March April May | 0.2 0.2 0.2 0.2 0.2 | 1.9 1.4 0.7 1.6 2.5 | 0 (s) (s) 0 | 4.3 4.5 4.6 4.3 3.9 | 1.7 1.5 1.6 1.5 1.2 | 13.8 10.9 11.3 10.5 9.6 | 0.2 0.1 0.2 0.2 0.3 | 0.2 0.1 0.1 0.1 0.7 | 8.0 6.8 7.9 8.4 9.2 | 0.4 (s) (s) 0.2 0.3 | (s) (s) (s) (s) |

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.
(s) = Less than 0.05 billion gross kilowatt-hours.
Note: • Totals may not equal sum of components due to independent rounding.
Sources: • See the last page of this section.

Nuclear Electricity Generation by Non-Communist Countries¹ (continued)

| | | 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 gr | oss kilowati | -hours | | | |
| 1973 | TOTAL | 0 | 6.5 | 2.1 | 6.2 | 0 | 28.0 | 11.9 | 100.7 | 88.0 | 188.7 |
| 1974 | TOTAL | 0 | 7.2 | 1.6 | 7.0 | 0 | 34.0 | 12.0 | 121.1 | 104.5 | 225.6 |
| 1975 | TOTAL | 0 | 7.5 | 12.0 | 7.7 | 0 | 30.5 | 21.7 | 152.7 | 181.7 | 334.4 |
| 1976 | TOTAL | 0 | 7.6 | 16.0 | 7.9 | 0 | 36.8 | 24.5 | 187.3 | 201.8 | 389.1 |
| 1977 | TOTAL | 0.1 | 6.5 | 19.9 | 8.1 | 0.1 | 38.1 | 35.8 | 207.8 | 263.3 | 471.0 |
| 1978 | TOTAL | 2.3 | 7.6 | 23.8 | 8.3 | 2.7 | 36.7 | 35.9 | 263.6 | 292.7 | 556.3 |
| 1979 | TOTAL | 3.2 | 6.7 | 21.0 | 11.8 | 6.3 | 38.5 | 42.2 | 300.1 | 270.6 | 570.7 |
| 1980 | TOTAL | 3.5 | 5.2 | 26.7 | 14.3 | 8.2 | 37.2 | 43.7 | 354.4 | 265.4 | 619.8 |
| 1981 | January | 0.3 | 0.8 | 3.5 | 1.5 | 0.8 | 3.8 | 5.0 | 39.7 | 25.7 | 65.4 |
| | February | 0 | 0.6 | 3.6 | 1.4 | 0.7 | 3.4 | 4.6 | 36.2 | 22.6 | 58.8 |
| | March | 0 | 0.7 | 3.7 | 1.5 | 0.8 | 4.2 | 4.9 | 39.1 | 23.1 | 62.2 |
| | April | 0 | 0.6 | 3.3 | 1.4 | 0.8 | 2.8 | 4.4 | 36.5 | 21.7 | 58.2 |
| | May | 0.2 | 8.0 | 2.8 | 1.4 | 8.0 | 2.5 | 4.3 | 36.6 | 20.9 | 57.4 |
| | June | 0.4 | 0.8 | 2.8 | 0.7 | 8.0 | 3.3 | 4.1 | 34.5 | 22.6 | 57.1 |
| | July | 0.4 | 1.1 | 1.4 | 0.6 | 0.8 | 2.5 | 5.2 | 36.1 | 24.8 | 61.0 |
| | August | 0.4 | 1.0 | 2.6 | 1.0 | 0.8 | 2.5 | 3.9 | 36.0 | 28.3 | 64.2 |
| | September | 0.3 | 0.6 | 3.0 | 1.3 | 0.8 | 3.1 | 3.3 | 33.9 , | 25.7 | 59.6 |
| | October | 0.3 | 1.2 | 3.3 | 1.5 | 1.2 | 2.7 | 4.0 | 34.7 | 21.6 | 56.3 |
| | November | 0.3 | 0.6 | 3.6 | 1.4 | 1.0 | 3.1 | 4.3 | 36.0 | 24.0 | 60.1 |
| | December | 0.4 | 0.7 | 4.1 | 1.5 | 1.1 | 4.9 | 5.4 | 43.1 | 27.5 | 70.6 |
| | TOTAL | 2.9 | 9.4 | 37.7 | 15.2 | 10.7 | 38.9 | 53.4 | 442.4 | 288.5 | 730.9 |
| 1982 | January | 0.4 | 1.0 | 4.0 | 1.5 | 8.0 | 3.4 | 5.9 | 44.5 | 27.1 | 71.6 |
| | February | 0.4 | 0.9 | 3.3 | 1.3 | 1.0 | 3.5 | 5.4 | 40.0 | 21.3 | 61.3 |
| | March | 0.4 | 0.5 | 3.8 | 1.5 | 1.0 | 4.1 | 5.3 | 43.2 | 24.0 | 67.1 |
| | April | 0.2 | 0.4 | 3.8 | 1.4 | 0.8 | 3.3 | 5.3 | 42.5 | 22.8 | 65.3 |
| | May | 0 | 0.5 | 2.5 | 1.2 | 0.8 | 2.6 | 5.6 | 39.0 | 22.8 | 61.8 |
| | June July | (s) 0.3 | 0.7 0.6 | 1.9 | 0.6 | 1.0 | 3.3 | 4.2 | 35.6 | 25.3 | 60.9 |
| | August | 0.3 | 0.6 | 1.2 2.0 | 0.9 1.0 | 1.2 | 3.3 | 4.5 | 37.6 | 26.8 | 64.4 |
| | September | 0.4 | 0.7 | 2.0 3.7 | 1.0 | 1.2 1.3 | 3.7 4.2 | 4.5 5.4 | 37.7 | 26.4 | 64.1 |
| | October | 0.4 | 1.0 | 4.2 | 1.5 | 1.3 | 4.2 3.7 | 5.4 5.2 | 38.6 39.8 | 26.7 | 65.3 |
| | November | 0.4 | 0.9 | 4.0 | 1.4 | 1.1 | 3.7 | 5.2 5.8 | 39.6 41.0 | 25.4 | 65.3 |
| | December | 0.4 | 0.9 | 4.2 | 1.5 | 1.4 | 5.6 5.1 | 5.6 6.5 | 41.0 | 24.2 25.8 | 65.3 75.0 |
| | TOTAL | 3.8 | 8.8 | 38.8 | 15.0 | 13.1 | 44.1 | 63.4 | 489.9 | 298.6 | 75.0 788.5 |
| 1983 | January | 0.5 | 1.0 | 4.2 | 1.5 | 1.5 | 4.8 | 6.5 | 49.9 | 27.4 | 77.3 |
| | February | 0.4 | 0.9 | 3.7 | 1.4 | 0.8 | 4.3 | 5.6 | | 23.8 | 66.5 |
| | March | 0.6 | 0.9 | 4.1 | 1.5 | 1.8 | 4.9 | 6.0 | 46.7 | 25.0 | 71.7 |
| | April | 0.4 | 0.8 | 3.3 | 1.5 | 1.7 | 4.3 | 4.0 | 43.0 | 23.4 | 66.4 |
| | May | 0.2 | 0.4 | 2.4 | 1.2 | 2.0 | 3.4 | 2.9 | 40.5 | 23.9 | 64.4 |
| | | | | | | - | | | | | |

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.

(s) = Less than 0.05 billion gross kilowatt-hours.

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.

Sources: • See the last page of this section.

Notes and Sources for the International Section

Notes

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

2. The members of the Organization of Economic Cooperation and Development (OECD) are Australia, Austria, Belgium, Canada, Denmark, Finland, France, West Germany, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, the Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and the United States. Total OECD excludes the United States Territories.

Sources

Crude Oil Production: • 1973-1981 annual data: Energy Information Administration, 1981 International Energy Annual.

• U.S. annual and monthly data: Energy Information Administration, *Petroleum Supply Monthly*.
• 1980-1983 monthly data (except U.S. and World): Central Intelligence Agency, "International Energy Statistical Review," and other industry sources.

other industry sources.

• 1980-1983 monthly data for World: Sum of data for all countries using above sources.

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

• United States data: Energy Information Administration, Petroleum Supply Monthly.

• IEA totals for latest months are Energy Information Administration estimates.

Petroleum Stocks: • Canada: Energy, Mines and Resources Canada, Energy Information Handbook; Statistics Canada, Refined Petroleum Products. • France: Comite Professionel du Petrole, Petrole 80: Activite de L'Industrie Petroliere and Bulletin Mensuel. • West Germany and Italy: OECD, Quarterly Oil Statistics and Monthly Oil Statistics. • Japan: Ministry of International Trade and Industry, Yearbook of Coal, Petroleum, and Coke Statistics 1979; Energy Production: Supply and Demand Statistics Report. • United Kingdom: United Kingdom Department of Energy, Digest of United Kingdom Energy Statistics 1981 and Energy Trends; and OECD, Monthly Oil Statistics. • United States: 1973 through 1979: Energy Information Administration (EIA), Energy Data Reports, "Petroleum Statement, Annual"; January 1980 forward: EIA, Petroleum Supply Monthly. • Other OECD: OECD, Quarterly Oil Statistics. • Total OECD: Sum of data for all OECD member countries using above sources.

Nuclear Electricity Generation: • Nucleonics Week. Nuclear Electricity Generation: • Nucleonics Week.

Definitions

Anthracite

A hard, black, lustrous coal containing a high percentage of fixed carbon and a low percentage of volatile matter. Often referred to as hard coal. Includes metaanthracite and semianthracite. Conforms to ASTM Specification D388 for anthracite.

Bituminous Coal

A coal that is high in carbonaceous matter having a volatility greater than anthracite and a calorific value greater than lignite. Often referred to in the United States as soft coal. Includes subbituminous coal and conforms to ASTM Specification D388 for bituminous and subbituminous coal.

British Thermal Unit (Btu)

The amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit at or near 39.2 degrees Fahrenheit. One Btu is equivalent to about 252 calories. An average Btu content of fuel is a heat value per unit quantity of fuel as determined from tests of fuel samples.

Coke (Coal)

Bituminous coal from which constituents have been driven off by heat so that the fixed carbon and the ash are fused together. It is used primarily in blast furnaces for smelting ores, especially iron ore.

Crude Oil

A mixture of hydrocarbons that is in the liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Statistically, crude oil reported at refineries, in pipelines, at pipeline terminals, and on leases may include lease condensate, shale oil, and tar sands oil.

Crude Oil Refinery Input

Total crude oil (including lease condensate) input to crude oil distillation units and other units for processing.

Crude Oil Stocks

Stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Distillate Fuel Oil

A light fuel oil distilled off during the refining process. Included are products known as No. 1 and No. 2 heating oils, diesel fuels, and No. 4

fuel oil, which conform to either ASTM Specification D396 or D975. These products are used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel), and electric power generation.

Electricity Production

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

Ethane

A normally gaseous, colorless hydrocarbon (C₂H₈) produced at natural gas processing plants and refineries. It is used primarily as petrochemical feedstock for eventual production of chemicals and plastic materials.

Exports

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

Full-Serve Station

Station at which services such as pumping gas, washing windows, and checking under the hood are performed by attendants.

Imports

Receipts into the 50 States and the District of Columbia of foreign goods (including receipts of goods from U.S. territories and U.S. Foreign Trade Zones) that are classified by customs officials as "imports for consumption" or "withdrawals from bonded warehouse for consumption," including withdrawals from bonded warehouses for military offshore use and for bunkering of vessels or aircraft engaged in international commerce. Included are imports for the Strategic Petroleum Reserve. Excluded are receipts into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Landed Cost of Imported Crude Oil

Includes the purchase price at the foreign port (or U.S. land border), transportation and insurance costs, wharfage and demurrage, brokerage fees, import fees and duties, license (ticket) fees, and transportation costs to the refinery. Averages are computed based on major importers, which account for an estimated 90 to 95 percent of total crude oil



imports. Coverage includes the United States and its territories.

Lease Condensate

A natural gas liquid recovered from gas-well gas in lease separators and field facilities. It 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 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

Propane, propylene, 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. Formerly called "liquefied gases."

Line Miles of Seismic Exploration

The distance along the earth's surface that is covered by seismic surveying.

Maximum Dependable Capacity, Net

Represents the dependable main-unit net capacity of domestic nuclear powerplant reactors and generally varies throughout the year because the unit efficiency varies with seasonal cooling water temperature variations. Usually maximum dependable capacity is the highest net dependable output of the turbine generator during the most restrictive seasonal conditions (usually summer).

Motor Gasoline

See Motor Gasoline, Finished, and Motor Gasoline, Total.

Motor Gasoline, Average Retail Selling Price

The average price (including taxes) of sales of motor gasoline to retail customers at service stations.

Motor Gasoline, Finished

Beginning in January 1981, "Motor Gasoline" was redefined as "Finished Motor Gasoline," which is 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. Included are premium and regular grade, both leaded and unleaded, gasohol, and all other refinery products listed in ASTM Specification D439. Excludes any blendstock until blending has been completed and the blendstock is incorporated in the finished gasoline and no longer separately identified. Also excludes any alcohol to be used in the blending of gasohol.

Motor Gasoline, Premium Grade

Finished motor gasoline that has an antiknock designation of 3 or more for unleaded motor gasoline and 4 or more for leaded motor gasoline.

Motor Gasoline, Regular Grade

Motor gasoline that has an antiknock designation of 2 or less for unleaded motor gasoline and 3 or less for leaded motor gasoline.

Motor Gasoline, Total

This includes finished leaded motor gasoline, finished unleaded motor gasoline, motor gasoline blending components, and gasohol.

Natural Gas

A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in gaseous phase or in solution with crude oil in natural underground reservoirs at reservoir conditions.

Natural Gas Plant Liquids

Those portions of natural gas that are liquefied at natural gas processing plants, including natural gasoline plants, cycling plants, and fractionators, and, in some instances, field facilities. Products obtained include ethane, liquefied petroleum gases (propane, butane, isobutane, propane-butane mixtures, ethane-propane mixtures), isopentane, natural gasoline, unfractionated streams, plant condensate, and minor quantities of finished products such as motor gasoline, aviation gasoline, special naphthas, jet fuel, kerosene, distillate fuel oil, and miscellaneous products.

Petroleum

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

Petroleum Coke

A solid residue; the final product of the condensation process in cracking. 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 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, natural gasoline and isopentane, plant condensate, unfractionated stream, ethane, liquefied petroleum gases, 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.

Propane

A colorless, highly volatile hydrocarbon (C_3H_8) that is gaseous at ordinary atmospheric conditions and readily recovered as a liquid at natural gas processing plants and refineries. Propane is used primarily for residential and commercial heating and cooling, and also as a fuel for transportation and industrial uses, including petrochemical feedstocks.

Refined Petroleum Product Supplied

Total refined petroleum product supplied is the sum of all refined petroleum products supplied. For each product the amount supplied is derived by summing production, imports, and crude oil burned directly, and subtracting changes in primary stocks (net withdrawals is a plus quantity; net additions is a minus quantity) and exports.

Refiner Acquisition Cost

The cost to the refiner, including transportation and fees, of crude oil. The composite cost is the average of domestic and imported crude oil costs and represents the amount of crude oil cost that refiners may pass on to their customers.

Residual Fuel Oil

The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are boiled off in refinery operations. Included are products known as No. 5 and No. 6 fuel oil that conform to ASTM Specification D396, Navy Special Fuel Oil, Bunker C fuel oil, and acid sludge and pitch used as refinery fuels. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Rotary Rig

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

Self-Serve Station

Station at which services such as pumping gas, washing windows, and checking under the hood are not performed by attendants.

Startup Test Phase of Nuclear Powerplant

A nuclear powerplant that has been licensed by the Nuclear Regulatory Commission to operate, but that is in the initial testing phase during which production of electricity may not be continuous. In general, when the electric utility is satisfied with the plant's performance, it formally accepts the plant from the manufacturer, and places it in "commercial operation" status. A request is then submitted to the appropriate utility rate commission to include the powerplant in the rate base calculation.

Stocks (Refined Petroleum Product)

Stocks held at refineries, natural gas processing plants, bulk terminals, and pipelines (including pipeline fill) where the storage capacity exceeds 50,000 barrels or where refined petroleum products are received by tanker, barge, or pipeline. Stocks held in secondary storage facilities, such as those held by jobbers, dealers, independent marketers, and consumers, are excluded.

Strategic Petroleum Reserve

Petroleum inventories (currently only crude oil) held in Government-owned underground storage for use during periods of major supply interruptions. Congress enacted legislation to establish a Strategic Petroleum Reserve in Title I, Part B, of the Energy Policy and Conservation Act of 1975, Public Law 94–163.

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, exports of crude oil, crude oil burned as fuel, and crude oil losses.

Wells, Exploratory and Development

Holes drilled for the purpose of finding or producing crude oil or natural gas. They include wells classified as oil wells, gas wells, or dry holes. DOE F 1340.1 (2-80)

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Conversion Factors

| Approximate Heat Content | | | | | | | | | | | |
|--------------------------------------|-----------------------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|----------|
| of Various Fuels | Units | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982-83‡ |
| Anthracite | | | | | | | | | | | |
| Production | Million Btu/short ton | 23.17 | 22.56 | 23.39 | 22.77 | 23.18 | 23.52 | 23.59 | 23.35 | 23.69 | 23.69 |
| Imports and exports | Million Btu/short ton | 25.40 | 25.40 | 25.40 | 25.40 | 25.40 | 25.40 | 25.40 | 25.40 | 25.40 | 25.40 |
| Consumption, average | | 22.71 | 21.95 | 21.74 | 22.15 | 22.69 | 22.97 | 22.70 | 22.16 | 22.10 | 22.10 |
| Electric utility consumption | | 17.92 | 17.20 | 17.06 | 17.53 | 17.24 | 17.10 | 17.45 | 17.65 | 18.17 | 18.17 |
| Non-utility consumption | Million Btu/short ton | 24.34 | 23.75 | 23.65 | 23.84 | 24.99 | 25.17 | 25.20 | 23.74 | 25.12 | 25.12 |
| Bituminous coal and lignite | | 24.54 | 20.70 | 20.00 | 23.04 | 24.55 | 25.17 | 25.20 | 23.74 | 25.12 | 23.12 |
| Production | Million Btu/short ton | 24.01 | 23.73 | 23.20 | 23.15 | 22.70 | 22.43 | 22.59 | 22.46 | 22.38 | 22.38 |
| Imports | | 25.00 | 25.00 | 25.20 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 |
| Exports | | 27.00 | 27.00 | 27.00 | 27.00 | 27.00 | 27.00 | 27.00 | 26.40 | 26.18 | |
| Consumption, average | | 23.65 | 23.07 | 22.80 | 22.75 | 22.33 | 22.14 | | | | 26.18 |
| Electric utility consumption | | 22.26 | 21.80 | 21.66 | 21.69 | 21.48 | 21.28 | 22.20 | 22.00 | 21.80 | 21.80 |
| Non-utility consumption | Million Btu/short ton | 26.84 | 26.12 | | | | | 21.38 | 21.30 | 21.09 | 21.09 |
| Coal coke | Million Btu/short ton | 26.00 | 26.12 | 25.81 26.00 | 25.87 | 25.13 | 25.07 | 25.06 | 25.06 | 24.96 | 24.96 |
| Crude petroleum¹ | Willion Blu/short ton | 26.00 | 20.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 |
| Production | Million Btu/barrel | 5 000 | 5 000 | 5 000 | 5 000 | | | | | | |
| Imports | | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 |
| Exports | | 5.817 | 5.827 | 5.821 | 5.808 | 5.810 | 5.802 | 5.810 | 5.812 | 5.818 | 5.818 |
| Crude petroleum and products | Million Btu/barrel | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 | 5.800 |
| Imports, average | Addison Day the cont | | | | | | | | | | |
| | | 5.897 | 5.884 | 5.858 | 5.856 | 5.834 | 5.839 | 5.810 | 5.796 | 5.795 | 5.775 |
| Exports, average | Million Btu/barrel | 5.752 | 5.774 | 5.748 | 5.745 | 5.797 | 5.808 | 5.832 | 5.820 | 5.821 | 5.821 |
| Petroleum products | APIE - D. O. I | | | | | | | | | | |
| Consumption, average | | 5.515 | 5.504 | 5.494 | 5.504 | 5.518 | 5.519 | 5.494 | 5.479 | 5.448 | 5.448 |
| Residential and commercial | | 5.387 | 5.377 | 5.358 | 5.383 | 5.389 | 5.382 | 5.471 | 5.468 | 5.408 | 5.354 |
| Industrial | | 5.559 | 5.530 | 5.520 | 5.529 | 5.546 | 5.542 | 5.415 | 5.373 | 5.306 | 5.383 |
| Transportation | | 5.399 | 5.397 | 5.395 | 5.399 | 5.405 | 5.409 | 5.430 | 5.442 | 5.436 | 5.429 |
| Electric utility | | 6.245 | 6.238 | 6.250 | 6.251 | 6.249 | 6.251 | 6.258 | 6.254 | 6.258 | 6.258 |
| Imports | | 5.983 | 5.959 | 5.935 | 5.980 | 5.908 | 5.955 | 5.811 | 5.748 | 5.659 | 5.659 |
| Exports | | 5.752 | 5.773 | 5.747 | 5.743 | 5.796 | 5.814 | 5.864 | 5.841 | 5.837 | 5.837 |
| LPG consumption average ³ | Million Btu/barrel | 3.746 | 3.730 | 3.715 | 3.711 | 3.677 | 3.669 | 3.680 | 3.674 | 3.643 | 3.643 |
| Natural gas plant liquid | | | | | | | | | | | |
| production | Million Btu/barrel | 4.049 | 4.011 | 3.984 | 3.964 | 3.941 | 3.925 | 3.955 | 3.914 | 3.930 | 3.930 |
| Natural gas, dry | | | _ | | | | | | | | |
| Production | | 1,021 | 1,024 | 1,021 | 1,020 | 1,021 | 1,019 | 1,021 | 1,016 | 1,015 | 1,015 |
| Consumption | | 1,021 | 1,024 | 1,021 | 1,020 | 1,021 | 1,019 | 1,021 | 1,026 | 1,027 | 1,027 |
| Electric utility consumption | | 1,024 | 1,022 | 1,026 | 1,023 | 1,029 | 1,034 | 1,034 | 1,034 | 1,034 | 1,034 |
| Non-utility consumption | | 1,020 | 1,024 | 1,020 | 1,019 | 1,019 | 1,016 | 1,018 | 1.024 | 1.025 | 1,025 |
| Imports | | 1,026 | 1,027 | 1,026 | 1,025 | 1,026 | 1,030 | 1,037 | 1,022 | 1,014 | 1,014 |
| Exports | | 1,023 | 1,016 | 1,014 | 1,013 | 1,013 | 1,013 | 1,013 | 1,013 | 1,011 | 1,011 |
| Wet natural gas production | | 1,093 | 1,097 | 1,095 | 1,093 | 1,093 | 1.088 | 1,092 | 1,088 | 1,091 | 1,091 |
| Hydropower ^a | | 10,389 | 10,442 | 10,406 | 10,373 | 10,435 | 10,361 | 10,353 | 10,388 | 10,388 | 10,388 |
| Nuclear powers | Btu/kWh | 10,903 | 11,161 | 11,013 | 11,047 | 10,769 | 10,941 | 10,640 | 10,908 | 10,908 | 10,908 |
| Geothermal powers | Btu/kWh | 21,674 | 21,674 | 21,611 | 21,611 | 21,611 | 21,611 | 21,545 | 21,637 | 21,594 | 21,594 |
| Electricity consumption | | 3,412 | 3,412 | 3,412 | 3,412 | 3,412 | 3,412 | 3.412 | 3,412 | 3,412 | 3,412 |
| | | ٠, | 0,712 | 0,712 | 9,712 | 5,712 | 0,412 | J,412 | 3,412 | 3,412 | 3,412 |

| of Refined Petroleum Products | Million Btu/barrel | | | | |
|-------------------------------|--------------------|------------------|--------------|---------|-----------------------------------|
| Asphalt | 6.636 | Units of Mea | euro | | |
| Aviation gasoline | 5.048 | Office Of Mea | ioui e | | |
| Butane | 4.326 | | | | |
| Butane-propane mixture* | 4.130 | Weight | | | |
| Distillate fuel oil | 5.825 | | | | |
| Ethane | 3.082 | 1 metric ton | contains | 1.00 | 00 kilograms or 2,204.62 pounds |
| Ethane-propane mixtures | 3.308 | 1 long ton | contains | | 40 pounds . |
| Isobutane | 3.974 | 1 short ton | contains | | 00 pounds |
| Jet fuel-kerosene type | | 1 Short ton | Comans | 2,00 | oo podrids |
| Jet fuel—naphtha type | 5.355 | 0 | | | |
| Kerosene | 5.670 | Conversion Fact | ors for Crud | e Oil (| (Average Gravity) |
| Lubricants | | | | | |
| Motor gasoline | 5.253 | 1 barrel | contains | 42 | gallons |
| Natural gasoline | 4.620 | 1 barrel | contains | 0.13 | 36 metric tons (0.150 short tons) |
| Petrochemical feedstocks | | 1 metric ton | contains | | 3 barrels |
| Naphtha 400° F or less | 5.248 | 1 short ton | contains | | 5 barrels |
| Other oils over 400° F | 5.825 | 1 Short ton | Comans | 0.0 | Daireis |
| Still gas | 6.000 | 0 | | | |
| Petroleum coke | 6.024 | Conversion Fact | ors for Uran | lum | |
| Plant condensate | 5.418 | | | | |
| Propane | 3.836 | 1 short ton (U₃C | D₃) cont | ains | 0.769 metric tons of uranium |
| Residual fuel oil | 6.287 | 1 short ton (UF, |) cont | ains | 0.613 metric tons of uranium |
| Road oil | 6.636 | 1 metric ton (Uf | | | 0.676 metric tons of uranium |
| Special naphtha | 5.248 | | 6) 00110 | 41113 | 0.070 metric tons or dramam |
| Still gas | 6.000 | | | | |
| Unfinished oils | 5.825 | | | | |
| Unfractionated stream | 5.418 | | | | |
| Wax | 5.537 | | | | |
| Miscellaneous | 5.796 | | | | |

¹ Includes lease condensate.

Approximate Heat Content

Includes lease condensate.
 LPG consumption average is the annual weighted average of the LPG product supplied components: ethane, ethylene, propane, propylene, butane, butylene, butane-propane mixture, ethane-propane mixture, and isobutane.
 There is no generally accepted practice for measuring hydropower thermal conversion rates. The hydropower factors on this page are the prevailing rate factors at fossil fuel steam electric powerplants. By using the heat rate factor, it is possible to evaluate fossil fuel requirements for replacing hydropower production during periods of drought. Furthermore, it allows for better comparisons with certain other countries such as Norway where hydropower is the principal means for producing electricity. Similarly, the nuclear power and geothermal power conversion factors represent the thermal conversion equivalent of the uranium and geothermal steam consumed at powerplants. The heat content of a kilowatt-hour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatt-hour.
 60 percent butane and 40 percent propane.
 70 percent ethane and 30 percent propane.
 5 Preliminary data.

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