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July 1981

Monthly Energy Review



See Notice last

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Editor:

Nancy Masterson Diane D. Perritt

Associate Editors:

Maria F. McGuinness

Editorial Review:

Staff, Publication

Services

Executive Summary:

Nancy Masterson Roberta Searles Dianne R. Dunn

and Consumption

Petroleum:

Henry Clarius

Leonard L. Fanelli

Natural Gas:

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Resource Development:

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U.S. Department of Energy **Energy Information Administration**

National Energy Information Center, El-20

Forrestal Building

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(202) 252-8800

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IMPORTANT NOTICE

As required by government regulation, EIA will conduct the annual review of our mailing list during the next several weeks. If you are on the mailing list, you will soon receive a post card listing your name and address as they appear on our files. If you wish to continue to receive our publications, you must mail the post card back to us within thirty days of the day you receive it.

NOTE: This procedure will not apply to subscriptions purchased from the Government Printing Office (GPO).

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The Monthly Energy Review presents current data and trends for production, consumption, stocks, imports, exports, and prices for the principal energy commodities in the United States. Also included are data on international production of crude oil, consumption of petroleum products and production of electricity from nuclear powered facilities. This report is published to keep the public and other interested parties fully informed with respect to current energy production, consumption, stocks, and prices.

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..."

From time-to-time an article that addresses some facet of energy is included in this publication. Feature articles that have appeared in previous issues are as follows:

| Energy Consumption March | 1975 |
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| Nuclear PowerApril | 1975 |
| The Price of Crude Oil June | 1975 |
| U.S. Coal Resources and Reserves July | 1975 |
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| | |

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| gram—The First Year's Report June 1980 |
| Energy From Urban Waste August 1980 |
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| Collection and Methods of |
| Estimation November 1980 |
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| Disclosure Policy for Individually Identifiable |
| Information Maintained by the Energy Infor- |
| mation AdministrationDecember 1980 |
| Changes in 1981 Petroleum Data |
| Series May 1981 |

OVERVIEW

Production

Energy production during the first 4 months of 1981 totaled 20.9 quadrillion Btu, a 4.1 percent decrease compared to production during the same period of 1980. This amounted to a 3.3 percent decrease when measured as a daily rate (a measure which removes the influence of leap year). Decreases in production occurred for petroleum, natural gas and coal. Petroleum production was down 1.6 percent, natural gas 3.0 percent, and coal 6.7 percent (all measured as daily rates). All other forms of energy production combined were up 0.4 percent.

Consumption

During the first 4 months of 1981, energy consumption totaled 25.9 quadrillion Btu, a 5.2 percent decrease compared to consumption during the same period of 1980,

or 4.4 percent lower when average daily rates are compared. Decreases in the daily consumption rates of petroleum (7.7 percent) and natural gas (6.4 percent) contributed to the overall decline in energy consumption during this period. The average daily rate of coal consumption was up 4.5 percent over the level during the first 4 months of 1980.

Imports

Net imports of energy during the first 4 months of 1981 totaled 3.5 quadrillion Btu, 29.1 percent below the first 4 months of 1980 level. This decrease amounted to 28.5 percent when measured as a daily rate. By energy source, the decreases in net imports were petroleum, 20.6 percent; and natural gas, 28.4 percent (daily rates). Electricity and coal coke combined increased 0.4 percent. Net exports of coal during the first 4 months of 1981 were 43.7 percent higher than the level during the same period of 1980.

ENERGY SUMMARY (Quadrillion (1015) Btu)

| | | April | | Cumulative January through April | | | | | | | |
|-------------------------|---------|---------|-------------------|----------------------------------|-----------------------|---------|-----------------------|--------------------|--|--|--|
| | 1981 | 1980 | Percent Change | 1981 | 1981 Daily Rate | 1980 | 1980 Daily Rate | Percent Change* | | | |
| Total Production | 4.598 | 5.412 | - 15.0 | 20.931 | 0.174 | 21.827 | 0.180 | ~ 3.3 | | | |
| Petroleum ¹ | 1.659 | 1.705 | - 2.7 | 6.705 | 0.056 | 6.872 | 0.057 | 1.6 | | | |
| Natural Gas | 1.613 | 1.635 | – 1.3 | 6.620 | 0.055 | 6.879 | 0.057 | -3.0 | | | |
| Coal | 0.874 | 1.590 | – 45.1 | 5.723 | 0.048 | 6.184 | 0.051 | -6.7 | | | |
| Other ² | 0.452 | 0.483 | -6.3 | 1.883 | 0.016 | 1.892 | 0.016 | +0.4 | | | |
| Total Consumption | 5.788 | 6.021 | -3.9 | 25.948 | 0.216 | 27.368 | 0.226 | -4.4 | | | |
| Petroleum ³ | 2.570 | 2.756 | 6.8 | 10.890 | 0.091 | 11.892 | 0.098 | -7.7 | | | |
| Natural Gas | 1.521 | 1.601 | -5.0 | 7.710 | 0.064 | 8.309 | 0.069 | -6.4 | | | |
| Coal | 1.228 | 1.169 | + 5.1 | 5.401 | 0.045 | 5.211 | 0.043 | + 4.5 | | | |
| Other ⁴ | 0.468 | 0.495 | - 5.4 | 1.947 | 0.016 | 1.956 | 0.016 | +0.4 | | | |
| Net Imports | 0.758 | 1.036 | -26.9 | 3.504 | 0.029 | 4.942 | 0.041 | - 28.5 | | | |
| Petroleum ⁵ | 0.896 | 1.137 | - 21.3 | 3.955 | 0.033 | 5.025 | 0.042 | - 20.6 | | | |
| Natural Gas | 0.067 | 0.088 | - 23.6 | 0.302 | 0.003 | 0.426 | 0.004 | - 28.4 | | | |
| Coal | (0.221) | (0.202) | (+ 9.4) | (0.817) | (0.007) | (0.573) | (0.005) | (+43.7) | | | |
| Other ⁶ | 0.016 | 0.013 | + 28.9 | 0.064 | 0.001 | 0.065 | 0.001 | +0.4 | | | |

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

Parentheses indicate exports are greater than imports.

* Based on daily rates in order to remove the influence of leap year.

¹ Includes crude oil, lease condensate, and natural gas plant liquids.

Includes refined petroleum products and natural gas plant liquids.

Includes net imports of electricity and coal coke.



YIBMMMUNS

² Includes hydroelectric, nuclear, and geothermal power and electricity produced from wood and waste.

⁴ Includes hydroelectric, nuclear, and geothermal power, electricity produced from wood and waste, and net imports of electricity and coal coke.

⁵ Includes crude oil, lease condensate, refined petroleum products, unfinished oils, natural gasoline, plant condensate, and imports of crude oil for the Strategic Petroleum Reserve.

Energy Summary

| | | Energy Production | Energy Consumption ² | Energy Imports ³ | Energy Exports ¹ |
|------|---|---|--|--|---|
| | | | 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 | 61.204 | 78.150 | 19.262 | 1.952 |
| 1979 | TOTAL | 63.907 | 78.968 | 19.622 | 2.900 |
| 1980 | January February March April May June July August September October November December | 5.569 5.227 5.620 5.412 5.518 5.346 5.183 5.327 5.322 5.519 5.214 5.620 64.876 | 7.423 7.018 6.906 6.021 5.831 5.709 5.957 5.847 5.798 6.168 6.288 7.235 | 1.653 1.462 1.488 1.334 1.277 1.289 1.177 1.188 1.158 1.235 1.224 1.354 | 0.226 0.206 0.266 0.298 0.349 0.367 0.331 0.321 0.334 0.374 0.347 |
| 1981 | January February March April TOTAL (Year-to-date) | 5.468 5.196 R5.669 4.598 20.931 | 7.398 6.346 R6.417 5.788 25.948 | 1.323 1.181 1.158 1.086 4.748 | 0.263 0.279 0.373 0.328 1.244 |

Geographic coverage: the 50 United States and District of Columbia.

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

See Explanatory Note 1.

See Explanatory Note 2.

See Explanatory Note 3.

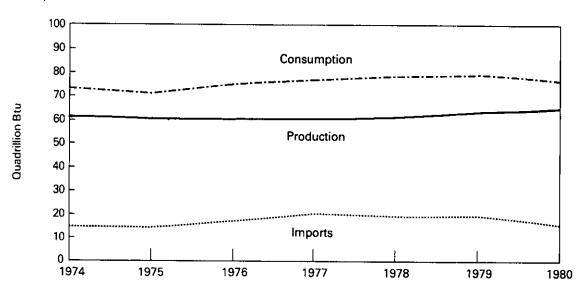
See Explanatory Note 4.

R=Revised data.

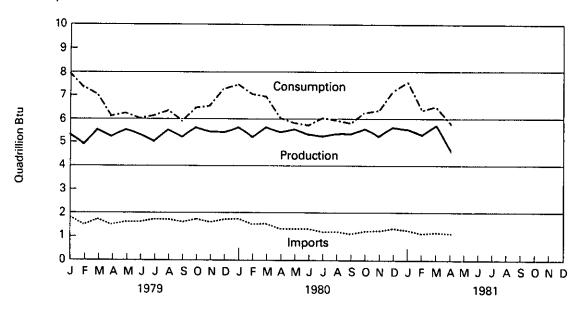
Note: The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces in Europe; and adjustments to account for discrepancies between reporting systems.
Source: *Energy Information Administration calculations based on data appearing elsewhere in this publication.

Energy Summary

Yearly



Monthly



Production of Energy by Type

| | | Coal ¹ | Crude Oil ² | NGPL ³ | Natural Gas (Dry) | Hydro- electric Power ⁴ | Nuclear Electric Power | Other ^a | 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 | 2.958 | 2.977 | 0.068 | 61.204 | |
| 1979 | TOTAL | 17.651 | 18.104 | 2.286 | 20.076 | 2.954 | 2.748 | 0.089 | 63.907 | |
| 1980 | January February March April May June July August September October November December | 1.543 1.461 1.589 1.590 1.602 1.624 1.384 1.597 1.637 1.722 1.490 1.638 | 1.555 1.463 1.566 1.512 1.553 1.487 1.538 1.514 1.500 1.535 1.479 1.548 | 0.202 0.189 0.192 0.193 0.191 0.185 0.186 0.179 0.184 0.186 0.191 2.263 | 1.782 1.672 1.791 1.635 1.659 1.552 1.582 1.542 1.547 1.615 1.619 1.759 | 0.267 0.226 0.257 0.272 0.305 0.292 0.258 0.216 0.195 0.189 0.203 0.235 2.913 | 0.213 0.208 0.216 0.202 0.198 0.197 0.226 0.262 0.254 0.264 0.226 0.238 2.704 | 0.008 0.008 0.008 0.008 0.010 0.009 0.010 0.011 0.010 0.011 0.011 0.011 | 5.569 5.227 5.620 5.412 5.518 5.346 5.183 5.327 5.322 5.519 5.214 5.620 64.876 | 5.569 10.795 16.415 21.827 27.345 32.691 37.875 43.201 48.523 54.042 59.256 64.876 |
| 1981 | January February March April TOTAL (Year-to-date) | 1.501 1.589 1.759 0.874 5.723 | 1.537 1.398 1.542 1.473 5.95 1 | 0.196 0.182 0.191 0.186 0.754 | 1.735 1.561 R1.711 1.613 6.620 | 0.236 0.223 0.218 0.219 0.896 | 0.252 0.233 0.237 0.222 0.944 | 0.011 0.010 0.011 0.010 0.043 | 5.468 5.196 R5.669 4.598 20.931 | 5.468 10.665 R16.333 20.931 |

Geographic coverage: the 50 United States and District of Columbia. Totals may not equal sum of components due to independent rounding. Includes bituminous coal, lignite, and anthracite.

²Includes lease condensate.

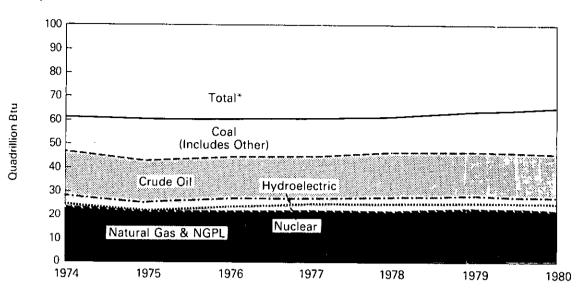
^{*}Natural gas plant liquids.
*Includes industrial and utility production of hydropower.
*Includes geothermal power and electricity produced from wood and waste.

R = Revised data.

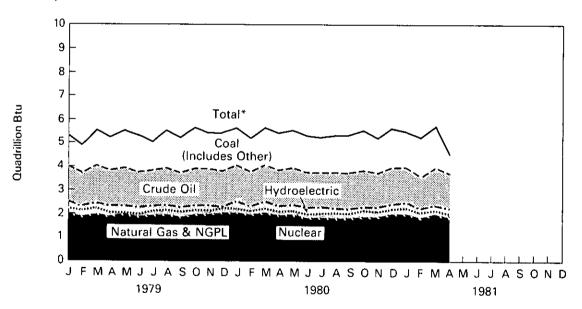
Source: *Energy Information Administration calculations based on data reported elsewhere in this publication.

Production of Energy by Type

Yearly



Monthly



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

Consumption of Energy by Type

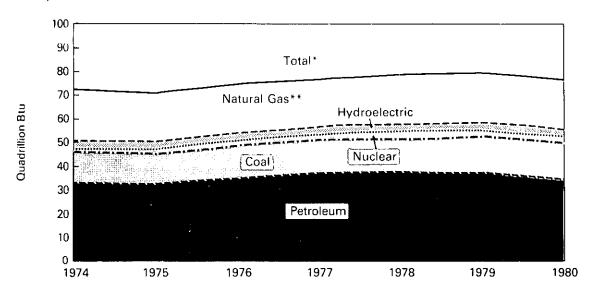
| | | Coal¹ | Natural Gas (Dry) | Petro- leum | Hydro- electric Power ² | Nuclear Electric Power | Net imports of Coal Coke ³ | Other• | Total Energy Consu- med | Yearly Cumulative Energy Consumed |
|------|---|--|--|--|--|---|---|--|--|---|
| | | | | | Quadrillion | n (1015) Btu | | | | |
| 1973 | TOTAL | 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 | 13.965 | 19.931 | 37.122 | 2.515 | 2.702 | 0.015 | 0.082 | 76.332 | |
| 1978 | TOTAL | 13.846 | 20.000 | 37.965 | 3.164 | 2.977 | 0.131 | 0.068 | 78.150 | |
| 1979 | TOTAL | 15.109 | 20.666 | 37.123 | 3.166 | 2.748 | 0.066 | 0.089 | 78.968 | |
| 1980 | January February March April May June July August September October November December | 1.410 1.325 1.307 1.169 1.173 1.245 1.401 1.393 1.272 1.238 1.261 1.407 | 2.327 2.238 2.143 1.601 1.383 1.279 1.328 1.272 1.326 1.574 1.820 2.201 | 3.177 2.998 2.961 2.756 2.749 2.672 2.719 2.679 2.727 2.880 2.752 3.126 | 0.285 0.242 0.275 0.289 0.323 0.309 0.276 0.234 0.213 0.207 0.220 0.253 | 0.213 0.208 0.216 0.202 0.198 0.197 0.226 0.262 0.254 0.264 0.226 0.238 2.704 | 0.003 (0.001) (0.003) (0.005) (0.006) (0.004) (0.003) (0.004) (0.006) (0.002) (0.001) (0.0037) | 0.008 0.008 0.008 0.008 0.010 0.019 0.011 0.011 0.011 0.011 | 7.423 7.018 6.906 6.021 5.831 5.709 5.957 5.847 5.798 6.168 6.288 7.235 | 7.423 14.441 21.347 27.368 33.199 38.908 44.865 50.712 56.510 62.678 68.966 76.201 |
| 1981 | January February March April TOTAL (Year-to-date) | 1.490 1.346 1.338 1.228 5.401 | 2.303 1.939 R1.946 1.521 7.710 | 3.088 2.580 2.652 2.570 10.890 | 0.254 0.239 0.236 0.237 0.966 | 0.252 0.233 0.237 0.222 0.944 | 0.000 (0.001) (0.003) (0.001) (0.005) | 0.011 0.010 0.011 0.010 0.043 | 7.398 6.346 R6.417 5.788 25.948 | 7.398 13.744 R20.161 25.948 |

1 > 1

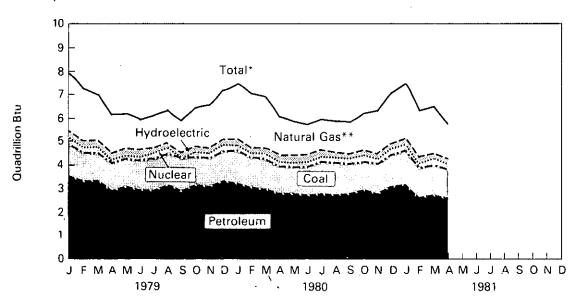
Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
*Includes bituminous coal, lignite, and anthracite.
*Includes industrial and utility production, and net imports of electricity.
*Parentheses indicate exports are greater than imports.
*Includes geothermal power and electricity produced from wood and waste.
R = Revised data.
*Source: *Energy Information Administration calculations based on data reported elsewhere in this publication.

Consumption of Energy by Type

Yearly



Monthly



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

Net Imports of Energy by Type¹

| | | Coal² | Crude Oil ³ | Refined Petrol- eum Products | Natural Gas (Dry) | Electri- city³ | Coal Coke | Net Imports | Yearly Cumulative Net Imports of Energy |
|------|---|---|---|--|--|--|---|--|---|
| | | | | Qua | drillion (1015) | Btu | | | |
| 1973 | TOTAL | (1.443) | 6.883 | 6.097 | 0.981 | 0.148 | (800.0) | 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 | 0.206 | 0.131 | 17.310 | |
| 1979 | TOTAL | (1.730) | 13.328 | 3.603 | 1.243 | 0.212 | 0.066 | 16.722 | |
| 1980 | January February March April May June July August September October November December | (0.117) (0.104) (0.150) (0.202) (0.227) (0.237) (0.221) (0.246) (0.226) (0.251) (0.242) (0.220) (2.444) | 1.089 0.948 0.984 0.931 0.858 0.892 0.794 0.837 0.765 0.791 0.763 0.847 | 0.316 0.284 0.266 0.207 0.218 0.196 0.199 0.205 0.216 0.236 0.256 0.276 2.873 | 0.118 0.112 0.107 0.088 0.067 0.059 0.060 0.057 0.056 0.073 0.085 0.092 | 0.018 0.017 0.018 0.017 0.018 0.017 0.018 0.017 0.018 0.017 0.018 0.017 | 0.003 (0.001) (0.003) (0.005) (0.006) (0.004) (0.003) (0.004) (0.006) (0.002) (0.001) (0.0037) | 1.428 1.256 1.222 1.036 0.928 0.922 0.845 0.868 0.824 0.860 0.876 1.012 | 1.428 R2.684 3.906 R4.942 5.870 6.792 R7.638 8.505 9.329 10.189 11.066 R12.078 |
| 1981 | January February March April TOTAL (Year-to-date) | (0.155) (0.180) (0.260) (0.221) (0.817) | 0.821 0.750 0.769 0.740 3.081 | 0.292 0.237 0.189 0.155 0.874 | 0.084 0.079 0.072 0.067 0.302 | 0.018 0.016 0.018 0.017 0.070 | 0.000 (0.001) (0.003) (0.001) (0.005) | 1.060 0.901 0.785 0.758 3.504 | 1.060 1.961 2.747 3.504 |

Geographic coverage: the 50 United States and District of Columbia.

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

Net imports—imports minus exports. Parentheses indicate exports are greater than imports.

Includes bituminous coal, lignite, and anthracite.

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

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

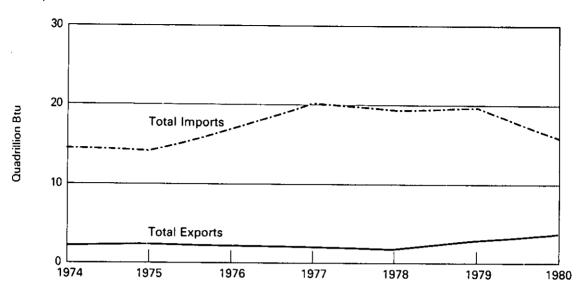
Only yearly totals are available for electricity imports and exports of data. Figures shown are estimates derived by dividing the yearly net import total by the number of days in the year and multiplying by the number of days in the month. Annual data for 1979 are used in estimating 1980 and 1981 data until actual annual data become available for those years.

R=Revised data. R=Revised data.

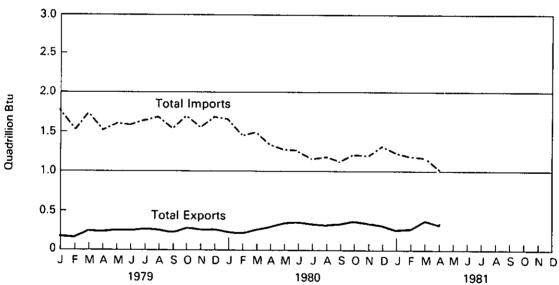
Source: •Energy Information Administration calculations based on data reported elsewhere in this publication.

Energy Imports and Exports

Yearly







Merchandise Trade Value

| | | Exports | | | | Imports | | Trade Baiance | | | |
|------|-------------------------|---------|--------------|---------|--------|---------------|---------|---------------|--------------|---------|--|
| | | Energy | All Other | Total | Energy | All Other | Total | Energy | All Other | Total | |
| | | | | | 1 | Million dolla | ars | | | | |
| 1973 | TOTAL | 1,671 | 69,202 | 70,873 | 8,173 | 61,659 | 69,832 | -6,502 | +7,543 | + 1,041 | |
| 1974 | TOTAL | 3,444 | 94,553 | 97,997 | 25,454 | 75,194 | 100,648 | -22,010 | + 19,360 | -2,650 | |
| 1975 | TOTAL | 4,470 | 103,119 | 107,589 | 26,476 | 70,094 | 96,570 | -22,006 | +33,025 | +11,019 | |
| 1976 | TOTAL | 4,226 | 110,924 | 115,150 | 33,996 | 87,013 | 121,009 | -29,770 | +23,911 | -5,859 | |
| 1977 | TOTAL | 4,184 | 116,966 | 121,150 | 44,537 | 103,148 | 147,685 | -40,353 | +13,818 | -26,535 | |
| 1978 | TOTAL | 3,881 | 139,696 | 143,577 | 42,096 | 129,882 | 171,978 | -38,215 | +9,814 | -28,401 | |
| 1979 | TOTAL | 5,621 | 176,030 | 181,651 | 59,998 | 146,258 | 206,256 | -54,377 | +29,772 | -24,605 | |
| 1980 | January | 619 | 16,801 | 17,419 | 7,118 | 14,024 | 21,142 | -6,499 | +2,776 | -3,723 | |
| | February | 584 | 16,400 | 16,984 | 8,152 | 13,626 | 21,779 | -7,568 | +2,774 | -4,794 | |
| | March | 636 | 17,629 | 18,265 | 7,564 | 13,384 | 20,947 | -6,928 | +4,246 | -2,682 | |
| | April | 607 | 17,960 | 18,567 | 6,797 | 12,969 | 19,766 | -6,190 | +4,992 | -1,198 | |
| | May | 660 | 16,987 | 17,647 | 7,150 | 13,437 | 20,587 | -6,490 | +3,549 | -2,941 | |
| | June | 656 | 17,784 | 18,440 | 7,276 | 13,077 | 20,353 | -6,620 | +4,708 | -1,912 | |
| | July | 695 | 17,572 | 18,267 | 5,986 | 13,153 | 19,139 | -5,291 | +4,419 | -872 | |
| | August | 702 | 18,385 | 19,087 | 6,461 | 13,252 | 19,713 | -5,759 | +5,133 | -626 | |
| | September | 710 | 18,119 | 18,828 | 6,278 | 13,662 | 19,941 | -5,568 | +4,456 | -1,112 | |
| | October | 662 | 18,552 | 19,214 | 6,601 | 13,747 | 20,347 | -5,939 | +4,805 | -1,134 | |
| | November | 709 | 18,006 | 18,715 | 6,128 | 13,732 | 19,860 | -5,419 | +4,274 | -1,145 | |
| | December | 706 | 18,545 | 19,251 | 7,413 | 14,023 | 21,436 | -6,707 | +4,522 | -2,185 | |
| | TOTAL | 7,982 | 212,644 | 220,626 | 82,924 | 161,947 | 244,871 | -74,942 | +50,698 | -24,244 | |
| 1981 | January | 806 | 18,019 | 18,825 | 8,014 | 15,180 | 23,194 | -7,208 | +2,838 | -4,370 | |
| | February | 977 | 18,787 | 19,764 | 7,943 | 13,978 | 21,922 | -6,966 | +4,808 | -2,158 | |
| | March | 951 | 20,484 | 21,434 | 6,476 | 14,473 | 20,949 | -5,525 | +6,010 | +485 | |
| | April | 691 | 19,127 | 19,818 | 7,836 | 14,454 | 22,289 | -7,145 | +4,674 | -2,471 | |
| | May | 566 | 18,304 | 18,869 | 6,078 | 15,232 | 21,310 | -5,512 | +3,071 | -2,441 | |
| | TOTAL (Year-to-date) | 3,991 | 94,721 | 98,710 | 36,347 | 73,317 | 109,664 | -32,356 | +21,401 | -10,955 | |

Notes: The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. Customs territory which includes the 50 States, the District of Columbia, and Puerto Rico. The statistics exclude imports into Guam, American Samoa, and other U.S. possessions; and shipments between the United States and Puerto Rico, between the United States and U.S. possessions, and between any of these outlying areas. Also, U.S. Virgin Island trade with foreign countries is included in all import data and total export data beginning with January 1980 and is included in energy export data beginning with January 1981. Data presented are on a free alongside ship(f.a.s.) basis except for 1973 imports which are on a customs value basis (i.e., generally at prices in principal foreign markets). Monthly data are adjusted for seasonal and working-day variation; annual data are unadjusted. Statistics include nonmonetary gold. Statistics exclude Department of Defense (DOD) 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: positive indicates surplus trade value and negative indicates deficit trade value. The "All Other" columns are calculated by subtracting "energy" from "total". Totals may not equal sum of components due to independent rounding.

components due to independent rounding.

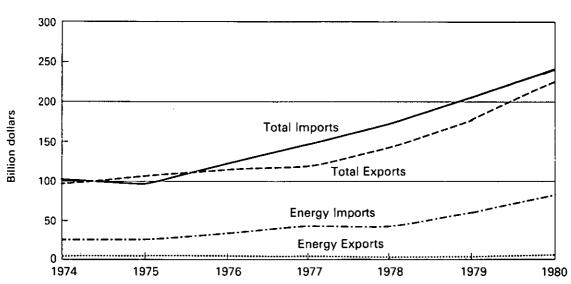
Sources: • 1973 through 1978-U.S. Department of Commerce, International Trade Administration, Overseas Business Reports, "United States Foreign Trade Annual 1973-1979;"

• 1979 forward-U.S. Department of Commerce, Bureau of the Census, "Summary of U.S. Export and Import Merchandise Trade,"

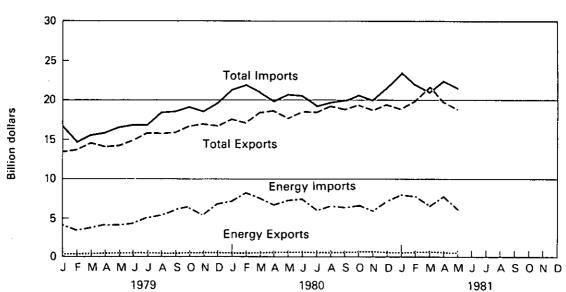
December 1980 issue for 1979 data and most recent monthly issue for 1980 and 1981.

Merchandise Trade Value

Yearly







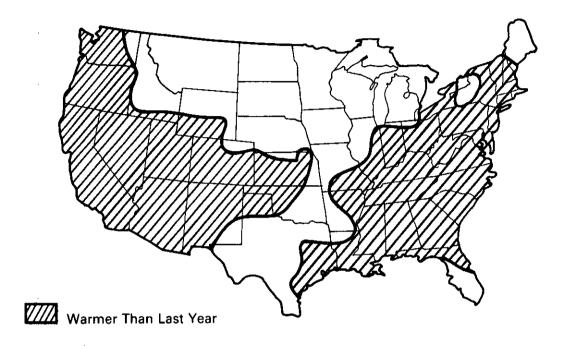
Cooling Degree-Days¹

| Petroleum Administration | | l through | June 28 | | Cumulative January 1 through June 28 | | | | | |
|---|------------|-----------|------------------|-----------|---|------------|------------|------------------|------------|------------------|
| For Defense (PAD) Districts | 1981 | 19 | 980² | Normal | (1941–70)² | 1981 | 19 | 980 ² | Normal | (1941-70)2 |
| PAD District I New England Conn., Maine, Mass., N.H., R.I., Vt. | 261 138 | 196 99 | (33.1) (39.6) | 206 86 | (26.9) (60.5) | 419 187 | 367 117 | (14.3) (59.8) | 368 102 | (14.0) (84.5) |
| Middle Atlantic Del., Md., N.J., N.Y., Pa. | 186 | 141 | (31.7) | 160 | (15.7) | 245 | 208 | · (17.6) | 208 | (17.9) |
| Lower Atlantic Fla., Ga., N.C., S.C., Va., W. Va. | 430 | 323 | (33.1) | 327 | (31.4) | 784 | 715 | (9.6) | 726 | (8.0) |
| PAD District II III., Ind., Iowa, Kans., Ky., Mich., Minn., Mo., Nebr., N. Dak., Ohio, Okla., S. Dak., Tenn., Wisc. | 195 | 167 | (16.7) | 174 | (11.9) | 255 | 248 | (2.9) | 252 | (1.4) |
| PAD District III Ala., Ark., La., Miss., N. Mex., Tex. | 464 | 487 | (-4.8) | 410 | (13.2) | 890 | 873 | (2.0) | 838 | (6.2) |
| PAD District IV Colo., Idaho, Mont., Utah, Wyo. | 145 | 130 | (11.3) | 94 | (54.8) | 162 | 148 | (9.3) | 109 | (48.7) |
| PAD District V Ariz., Calif., Nev., Oreg., Wash. | 221 | 102 | (116.7) | 108 | (105.0) | 357 | 171 | (108.6) | 193 | (85.4) |
| U.S. AVERAGE ³ | 255 | 207 | (23.6) | 203 | (25.6) | 407 | 355 | (14.4) | 355 | (14.6) |

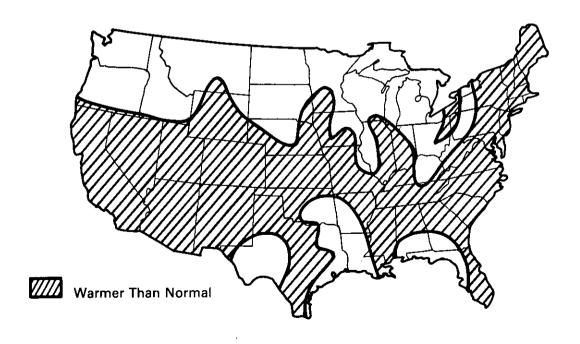
¹See Explanatory Note 6 for explanation of degree-days. ²Percentage change in parentheses. ³Excludes Alaska and Hawaii.

Cooling Degree-Days
Cooling Degree-Days Accumulated from January 1 through June 28

Departure from Last Year



Departure from Normal



Source: ● Department of Commerce — NOAA.

Energy Indicators—

| | | Energy | Consumption per | GNP Dolla | ır | U.S. Dependence on Petroleum Imports ³ | | | | | |
|-------|---|---|---|--|--|---|---|---|---|--|--|
| | | Energy | Yearly | Nationa | oss I Product al rate) | D | Direct Imports | | | | |
| | | Consumption per GNP Dollar ¹ | Rate of Energy Consumption | Current Dollars | 1972 Dollars ² | From Arab/OPEC Countries | From OPEC Countries | Total All Countries | Domestic Petroleum Products Supplied | | |
| ANNUA | AL RATE | | Quadrillion Btu | Trillion Dollars | | | Million barrels per day | | | | |
| 1973 | AVERAGE | 59.4 | 74.609 | 1.326 | 1.255 | 0.92 | 2.99 | 6.26 | 17.31 | | |
| 1974 | AVERAGE | 58.3 | 72.759 | 1.434 | 1.248 | 0.75 | 3.28 | 6.11 | 16.65 | | |
| 1975 | AVERAGE | 57.3 | 70.707 | 1.549 | 1.234 | 1.38 | 3.60 | 6.06 | 16.32 | | |
| 1976 | AVERAGE | 57.3 | 74.510 | 1.718 | 1.300 | 2.42 | 5.07 | 7.31 | 17.46 | | |
| 1977 | AVERAGE | 55.6 | 76.332 | 1.918 | 1.372 | 3.19 | 6.19 | 8.81 | 18.43 | | |
| 1978 | AVERAGE | 54.4 | 78.150 | 2.156 | 1.437 | 2.96 | 5.75 | 8.36 | 18.85 | | |
| 1979 | AVERAGE | 53.2 | 78.968 | 2.414 | 1.483 | 3.06 | 5.64 | 8.46 | 18.51 | | |
| 1980 | 1st Otr 2nd Qtr 3rd Qtr 4th Qtr AVERAGE | 57.2 48.3 47.6 52.7 51.5 | 85.857 70.630 70.025 78.336 76.201 | 2.572 2.565 2.637 2.731 2.626 | 1.502 1.463 1.472 1.486 1.481 | 3.00 2.59 2.26 2.33 2.54 | 4.97 4.28 3.74 4.03 4.25 | 7.90 6.81 6.11 6.52 6.83 | 18.27 16.36 16.07 17.33 1 7.01 | | |
| 1981 | 1st Qtr | 54.2 | 81.801 | 2.827 | 1.509 | 2.04 | 3.78 | 6.40 | 16.83 | | |

Geographic coverage: the 50 United States and District of Columbia.

Thousand Btu per 1972 constant dollar.

Current dollars are converted to 1972 constant dollars by the formula:
Constant 1972 dollars = 100(Current dollars in year N/GNP implicit price deflator in year N)

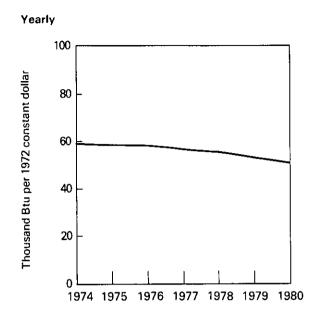
The Gross National Product deflators (1972=100) were determined by the Department of Commerce, Bureau of Economic Analysis.

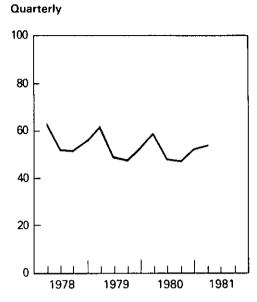
GNP rates are from the Business Conditions Digest published by the Bureau of Economic Analysis.

Beginning in October 1977 Strategic Petroleum Reserve imports are included.

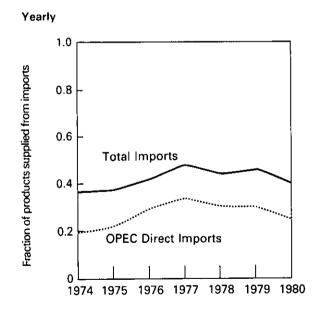
Note: This page is updated every quarter, during the months of March, June, September, and December. In other months, data appearing elsewhere in this publication are more current.

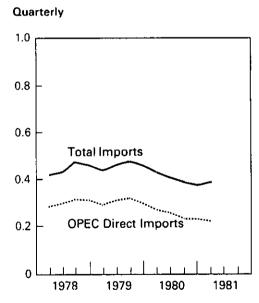
Energy Consumption per GNP Dollar





U.S. Dependence on Petroleum Imports

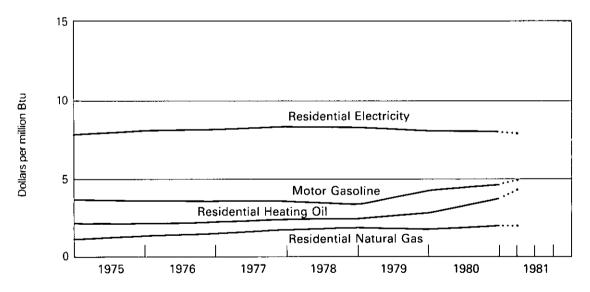




Energy Indicator—Cost of Fuels to End Users (1972 Dollars)

| | | | Regular Gasoline | _ | lential ing Oil | | ential al Gas | Residential Electricity | |
|------|---|---|---|---|---|--|------------------------------|---|---|
| | | 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 | 1st Otr 2nd Otr 3rd Otr 4th Otr AVERAGE | 60.9 62.1 60.6 58.2 60.5 | 4.87 4.97 4.85 4.65 4.84 | 49.8 49.8 49.2 50.7 49.7 | 3.59 3.59 3.55 3.66 3.58 | 190.9 197.2 207.6 198.9 198.8 | 1.88 1.94 2.04 1.95 | 2.53 2.75 2.86 2.73 2.72 | 7.42 8.06 8.38 8.00 7.97 |
| 1981 | 1st Qtr | 62.1 | 4.97 | 57.0 | 4.11 | 196.0 | 1.93 | 2.65 | 7.77 |

Average Cost of Fuels to End Users (1972 constant dollars)



Geographic coverage: the 50 United States and District of Columbia. NA = Not available.

Note: This page is updated every quarter, during the months of March, June, September, and December. In other months, data appearing elsewhere in this publication are more current.

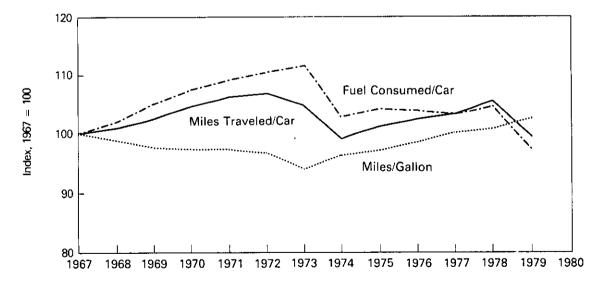
Sources: • Motor Gasoline—Bureau of Labor Statistics.

- Heating Oil—1974 and 1975, Form CLC-92, "No. 2 Heating Oil Monthly Price Adjustment Report," and 1976 forward, FEA Form P112-M-1, and EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report."
 Natural Gas—1973 through 1979 annual numbers, Bureau of Mines and Energy Information Administration Form 1340-A,
- Natural Gas—1973 through 1979 annual numbers, Bureau of Mines and Energy Information Administration Form 1340–A,
 "Supply and Disposition of Natural Gas to Non-Producing Distributors;" and Form 1341–A, "Supply and Disposition of Natural
 Gas to Producers and Pipelines;" 1980 and 1981 quarterly numbers and 1980 annual numbers, Bureau of Labor Statistics.
- Electricity—1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: FERC Form 5, " Electric Utility Company Monthly Statement."
- Deflator—The Consumer Price Index.

Energy Indicator — U.S. Passenger Car Efficiency

| | Average Fuel Consumed per Car | | Average Traveled | | 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 | |

U.S. Passenger Car Efficiency Index



Geographic coverage: the 50 United States and District of Columbia.

Source: ● 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 April 1981 dropped to 5.8 quadrillion Btu, 3.9 percent below April 1980 and a 9.8 percent decrease from the March 1981 consumption level.

The Residential and Commercial Sector consumption was 2.0 quadrillion Btu in April 1981, 18.4 percent lower than March 1981 and 5.5 percent lower than the amount consumed during April 1980. The Residential and Commercial Sector consumed 34.7 percent of the total consumption for April 1981, down from the sector's 35.3 percent share in April 1980.

The Industrial Sector consumption was 2.3 quadrillion Btu in April 1981, down 4.2 percent from March 1981 and down 0.6 percent from the consumption level in April 1980. The Industrial Sector consumed 40.3

percent of the April 1981 total, as compared to the 39.0 percent share in April 1980.

The Transportation Sector consumption was 1.4 quadrillion Btu in April 1981, down 4.9 percent from March 1981 and down 6.7 percent from the consumption level in April 1980. This sector consumed 25.0 percent of the April 1981 total, as compared to the 25.7 percent share in April 1980.

The Electric Utilities consumption was an estimated 1.9 quadrillion Btu of energy in April 1981, 6.6 percent lower than in the previous month, and 0.3 percent higher than the energy consumed in April 1980. Coal contributed 49.7 percent of the energy consumed by Electric Utilities in April 1981, while natural gas contributed 15.8 percent, hydroelectric power 12.5 percent, nuclear power 11.8 percent, petroleum 9.7 percent, and geothermal, wood and waste 0.5 percent.

Consumption

Energy Consumption Summary for April 1981 Quadrillion (10¹⁵) Btu

| Primary Energy Source | Residential and Commercial | Industrial | Transportation | Electric Utilities | TOTAL |
|-----------------------------|----------------------------------|------------|----------------|-----------------------|--------------|
| Coal | 0.016 | 0.280 | 0.000 | 0.933 | 1.228 |
| Natural Gas (dry) | 0.604 | 0.575 | 0.045 | 0.297 | 1.521 |
| Petroleum | 0.312 | 0.679 | 1.398 | 0.182 | 2.570 |
| Hydroelectric | 0.000 | 0.003 | 0.000 | 0.234 | 0.237 |
| Nuclear | 0.000 | 0.000 | 0.000 | 0.222 | 0.222 |
| Net Coke Imports | 0.000 | (0.001) | 0.000 | 0.000 | (0.001) |
| Other | 0.000 | 0.000 | 0.000 | <u>0.010</u> | 0.010 |
| TOTAL PRIMARY ENERGY | 0.932 | 1.535 | 1.443 | 1.878 | 5.788 |
| Electricity Sales | <u>0.314</u> | 0.232 | 0.001 | (0.547) | |
| Net Energy Consumption | 1.245 | 1.767 | 1.444 | | 4.456 |
| Electrical Energy Losses | 0.763 | 0.566 | 0.002 | (1.331) | <u>1.331</u> |
| TOTAL ENERGY CONSUMED | 2.009 | 2.333 | 1.445 | | 5.788 |

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

Notes and sources for this table and all other tables in this section are provided at the end of this section.



Consumption of Energy by End-Use Sector¹

| | | Residential and Commercial | Industrial | Transportation | Total Energy Consumed | |
|------|-------------------------|-------------------------------|----------------|----------------|-----------------------------|--------|
| | | Commercial | muustriai | Hansportation | Consumed | |
| | | | Quadrilli | on (1015) Btu | | |
| 1973 | TOTAL | 26.613 | 29.474 | 18.519 | 74.609 | |
| 1974 | TOTAL | 25.974 | 28.755 | 18.026 | 72.759 | |
| 1975 | TOTAL | 26.014 | + 26.512 | + 18.177 ≠ | 70.707 | 70.703 |
| 1976 | TOTAL | 27.213 | 28.230 | 19.063 | 74.510 | |
| 1977 | TOTAL | 27.569 | 29.024 | 19.735 | 76.332 | |
| 1978 | TOTAL | 28.159 | 29.373 | 20.612 | 78.150 | |
| 1979 | TOTAL | 27.462 | 31.551 | 19.950 | 78.968 | |
| 1980 | January | 2.887 | 2.902 | 1.633 | 7.423 | |
| | February | 2.845 | 2.604 | 1.569 | 7.018 | |
| | March | 2.661 | 2.647 | 1.597 | 6.906 | |
| | April | R2.126 | R2.347 | 1.548 | 6.021 | |
| | May | 1.880 | 2.409 | 1.542 | 5.831 | |
| | June | 1.906 | 2.317 | 1.486 | 5.709 | |
| | July | 2.109 | 2.302 | 1.546 | 5.957 | |
| | August | 2.096 1.959 | 2.238 2.355 | 1.513 1.483 | 5.847 5.798 | |
| | September October | 1.952 | 2.636 | 1.580 | 6.168 | |
| | November | 2.127 | 2.689 | 1.471 | 6.288 | |
| | December | 2.736 | 2.837 | 1.661 | 7.235 | |
| | | | | | | |
| | TOTAL | R27.284 | R30.283 | 18.628 | 76.201 | |
| 1981 | January | R3.150 | R2.591 | 1.656 | 7.398 | |
| | February | R2.714 | R2.207 | 1.425 | 6.346 | |
| | March | 2.461 | R2.436 | 1.520 | R6.417 | |
| | April | 2.009 | 2.333 | 1.445 | 5.788 | |
| | TOTAL (Year-to-date) | 10.333 | 9.567 | 6.046 | 25.948 | |

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

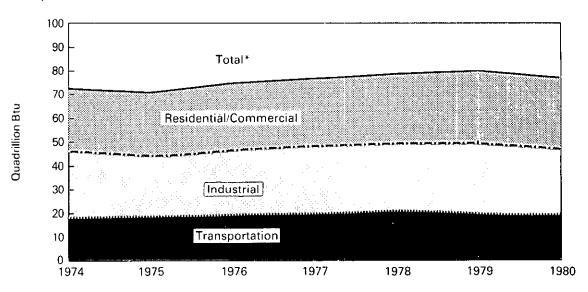
See Explanatory Note 5 for definitions of the Residential and Commercial, Industrial, and Transportation Sectors. The methodology used for sector calculations is provided in the Notes and Sources on the last page of this section.

R = Revised data.

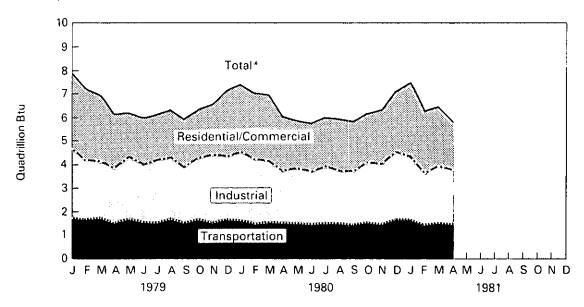
Source: •See Notes and Sources on the last page of this section.

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 Sector¹

| | | Coal | Natural Gas (Dry) | Petroleum | Electricity Sales | Electrical Energy Losses ² | Total Energy Consumed | Yearly Cumulative Energy Consumed |
|------|---|--|--|---|---|---|--|--|
| | | | | | Quadrillion (101 | 5) Btu | | |
| 1973 | TOTAL | 0.291 | 7.626 | 6.741 | 3.495 | 8.460 | 26.613 | |
| 1974 | TOTAL | 0.293 | 7.518 | 6.141 | 3.475 | 8.548 | 25.974 | |
| 1975 | TOTAL | 0.239 | 7.581 | 5.792 | 3.588 | 8.814 | 26.014 | |
| 1976 | TOTAL | 0.227 | 7.866 | 6.302 | 3.729 | 9.089 | 27.213 | |
| 1977 | TOTAL | 0.225 | 7.461 | 6.245 | 3.936 | 9.702 | 27.569 | |
| 1978 | TOTAL | 0.250 | 7.624 | 6.268 | 4.100 | 9.918 | 28.159 | |
| 1979 | TOTAL | 0.210 | 7.891 | 5.027 | 4.184 | 10.150 | 27.462 | |
| 1980 | January February March April May June July August September October November December | 0.022 0.019 0.014 0.014 0.009 0.007 0.010 0.009 0.011 0.015 0.016 0.021 | 1.113 1.191 1.053 0.716 0.450 0.329 0.259 0.240 0.252 0.370 0.639 1.025 | 0.410 0.384 0.359 0.312 0.331 0.343 0.355 0.350 0.370 0.396 0.347 0.406 4.365 | 0.381 0.375 0.358 0.319 0.298 0.334 0.410 0.439 0.410 0.343 0.322 0.364 4.354 | 0.960 0.875 0.876 R0.764 0.793 0.893 1.075 1.059 0.915 0.829 0.803 0.920 | 2.887 2.845 2.661 R2.126 1.880 1.906 2.109 2.096 1.959 1.952 2.127 2.736 R27.284 | 2.887 5.732 8.393 R10.519 R12.399 R14.305 R16.413 R18.510 R20.468 R22.421 R24.548 R27.284 |
| 1981 | January February March April TOTAL (Year-to-date) | 0.030 0.022 0.018 0.016 0.085 | R1.290 R1.138 R0.927 0.604 3.959 | 0.420 0.330 0.320 0.312 1.382 | 0.413 0.379 0.344 0.314 1.449 | 0.998 0.846 R0.851 0.763 3.458 | R3.150 R2.714 2.461 2.009 10.333 | R3.150 R5.864 R8.324 10.333 |

Geographic coverage: the 50 United States and District of Columbia.

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

¹The Residential and Commercial Sector consists of housing units, non-manufacturing business establishments (e.g., wholesale and retail businesses), health and educational institutions, and government office buildings. Notes on the methodology used for sector calculations are provided in the Notes and Sources on the last page of this section.

²Proportion of total electrical energy losses incurred in the generation and transmission of electricity plus plant use and unaccounted for that are attributed to this sector.

R = Revised data.

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

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

Consumption of Energy by the Industrial Sector¹

| | ٠ | Coal | Natural Gas (Dry) | Petro- leum | Hydro- electric | Net Coke Imports ² | Electricity Sales | Electrical Energy Losses ³ | Total Energy Con- sumed | Yearly Cumulative Energy Consumed |
|------|---|--|--|--|---|---|---|---|--|--|
| | | | | | 1 | Quadrillion (| 10¹⁵) Btu | | | |
| 1973 | TOTAL | 4.350 | 10.397 | 6.683 | 0.035 | (0.008) | 2.341 | 5.676 | 29.474 | |
| 1974 | TOTAL | 4.057 | 10.012 | 6.506 | 0.033 | 0.059 | 2.337 | 5.751 | 28.755 | |
| 1975 | TOTAL | 3.801 | 8.531 | 6.160 | 0.032 | 0.014 | 2.304 | 5.669 | 26.512 | |
| 1976 | TOTAL | 3.792 | 8.768 | 6.951 | 0.033 | 0.000 | 2.525 | 6.162 | 28.230 | |
| 1977 | TOTAL | 3.494 | 8.642 | 7.692 | 0.033 | 0.015 | 2.635 | 6.513 | 29.024 | |
| 1978 | TOTAL | 3.462 | 8.540 | 7.840 | 0.032 | 0.131 | 2.732 | 6.637 | 29.373 | |
| 1979 | TOTAL | 3.641 | 8.554 | 9.401 | 0.034 | 0.066 | 2.873 | 6.983 | 31.551 | |
| 1980 | January February March April May June July August September October November December | 0.316 0.295 0.301 0.281 0.275 0.259 0.268 0.252 0.240 0.258 0.271 0.305 3.320 | 0.858 0.708 0.733 0.573 0.602 0.564 0.595 0.574 0.666 0.846 0.863 0.861 | 0.911 0.819 0.802 0.709 0.695 0.658 0.629 0.627 0.685 0.727 0.749 0.845 | 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.002 0.002 0.002 0.002 0.002 0.002 | 0.003 (0.001) (0.003) (0.005) (0.006) (0.004) (0.003) (0.004) (0.006) (0.002) (0.001) | 0.230 0.234 0.236 0.232 0.229 0.228 0.224 0.230 0.237 0.237 0.237 0.231 0.234 | 0.580 0.546 0.576 R0.555 0.610 0.608 0.587 0.555 0.529 0.573 0.576 0.590 6.886 | 2.902 2.604 2.647 R2.347 2.409 2.317 2.302 2.238 2.355 2.636 2.689 2.837 R30.283 | 2.902 5.506 8.154 R10.501 R12.909 R15.226 R17.526 R19.766 R22.121 R24.757 R27.446 R30.283 |
| 1981 | January February March April TOTAL (Year-to-date) | 0.308 0.303 R0.286 0.280 1.177 | R0.708 R0.512 R0.679 0.575 2.474 | 0.790 0.647 0.657 0.679 2.773 | 0.003 0.003 0.003 0.003 0.012 | 0.000 (0.001) (0.003) (0.001) (0.005) | 0.229 0.230 0.234 0.232 0.925 | 0.554 0.514 R0.579 0.566 2.212 | R2.591 R2.207 R2.436 2.333 9.567 | R2.591 R4.798 R7.234 9.567 |

Geographic coverage: the 50 United States and District of Columbia.

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

The Industrial Sector is made up of construction, manufacturing, agriculture, and mining establishments. Notes on the methodology used for sector calculations are provided in the Notes and Sources on the last page of this section.

Net Imports = imports minus exports. Parentheses indicate exports are greater than imports.

Proportion of total electrical energy losses incurred in the generation and transmission of electricity plus plant use and unaccounted for that

are attributed to this sector. R=Revised data.

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

Consumption of Energy by the Transportation Sector¹

| | | Coal | Natural Gas (Dry) | Petroleum | Electricity Sales | Electrical Energy Losses ² | Total Energy Consumed | Yearly Cumulative Energy Consumed |
|------|---|--|--|--|---|--|--|--|
| | | | | Qua | drillion (1015) Btu | | | |
| 1973 | TOTAL | 0.003 | 0.743 | 17.745 | 0.009 | 0.020 | 18.519 | |
| 1974 | TOTAL | 0.002 | 0.685 | 17.309 | 0.009 | 0.021 | 18.026 | |
| 1975 | TOTAL | 0.001 | 0.595 | 17.547 | 0.010 | 0.024 | 18.177 | |
| 1976 | TOTAL | (3) | 0.559 | 18.469 | 0.010 | 0.025 | 19.063 | |
| 1977 | TOTAL | (3) | 0.543 | 19.157 | 0.010 | 0.024 | 19.735 | |
| 1978 | TOTAL | (3) | 0.539 | 20.044 | 0.009 | 0.020 | 20.612 | |
| 1979 | TOTAL | (2) | 0.612 | 19.303 | 0.010 | 0.024 | 19.950 | |
| 1980 | January February March April May June July August September October November December | (°) (°) (°) (°) (°) (°) (°) (°) (°) (°) | 0.069 0.066 0.063 0.047 0.041 0.038 0.039 0.038 0.039 0.047 0.054 0.065 | 1.561 1.500 1.531 1.498 1.498 1.445 1.503 1.472 1.441 1.530 1.414 1.593 | 0.001 0.001 0.001 0.001 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 0.002 0.002 0.002 0.002 0.002 | 1.633 1.569 1.597 1.548 1.542 1.486 1.546 1.513 1.483 1.580 1.471 1.661 | 1.633 3.202 4.799 6.347 7.889 9.375 10.921 12.434 13.917 15.497 16.967 18.628 |
| 1981 | January February March April TOTAL (Year-to-date) | (°) (°) (°) (°) | 0.068 0.057 0.058 0.045 0.228 | 1.585 1.365 1.459 1.398 5.806 | 0.001 0.001 0.001 0.001 0.004 | 0.002 0.002 0.002 0.002 0.008 | 1.656 1.425 1.520 1.445 6.046 | 1.656 3.081 4.601 6.046 |

Geographic coverage: the 50 United States and District of Columbia.

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

The Transportation Sector consists of both private and public passenger and freight transportation, as well as government transportation, including military operations. Notes on the methodology used for sector calculations are provided in the Notes and Sources on the last page of this section.

Proportion of total electrical energy losses incurred in the generation and transmission of electricity plus plant use and unaccounted for their sector.

that are attributed to this sector.

Since 1976 the amount of coal consumed by the Transportation Sector has been negligible.

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

Consumption of Energy by the Electric Utilities

| | | Coal ¹ | Natural Gas (Dry) | Petro- leum² | Hydro- electric power ³ | Nuclear Electric Power | Other | Total Energy Consumed | Yearly Cumulative Energy Consumed |
|------|---|---|--|--|---|--|---|--|--|
| | | | | | Quadrillion (| 1015) Btu | | | |
| 1973 | TOTAL | 8.655 | 3.746 | 3.671 | 2.975 | 0.910 | 0.046 | 20.004 | |
| 1974 | TOTAL | 8.524 | 3.518 | 3.499 | 3.276 | 1.272 | 0.056 | 20.144 | |
| 1975 | TOTAL , | 8.783 | 3.241 | 3.231 | 3.187 | 1.900 | 0.072 | 20.414 | |
| 1976 | TOTAL | 9.714 | 3.153 | 3.454 | 3.032 | 2.111 | 0.081 | 21.544 | |
| 1977 | TOTAL | 10.245 | 3.285 | 4.028 | 2.482 | 2.702 | 0.082 | 22.825 | |
| 1978 | TOTAL | 10.134 | 3.297 | 3.813 | 3.132 | 2.977 | 0.068 | 23.421 | |
| 1979 | TOTAL | 11.258 | 3.610 | 3.392 | 3.132 | 2.748 | 0.089 | 24.229 | |
| 1980 | January February March April May June July August September October November December | 1.073 1.010 0.992 0.874 0.890 0.979 1.124 1.133 1.021 0.966 0.975 1.081 | 0.286 0.272 0.293 0.265 0.291 0.349 0.435 0.420 0.370 0.312 0.265 0.250 | 0.295 0.295 0.269 0.237 0.225 0.226 0.230 0.229 0.231 0.228 0.241 0.282 2.988 | 0.282 0.240 0.272 0.286 0.319 0.306 0.273 0.231 0.210 0.204 0.218 0.251 3.092 | 0.213 0.208 0.216 0.202 0.198 0.197 0.226 0.262 0.254 0.264 0.226 0.238 | 0.008 0.008 0.008 0.008 0.010 0.009 0.010 0.011 0.011 0.011 0.011 | 2.156 2.033 2.050 1.873 1.933 2.066 2.299 2.286 2.096 1.985 1.935 2.112 24.824 | 2.156 4.189 6.239 8.112 10.045 12.112 14.410 16.696 18.791 20.777 22.712 24.824 |
| 1981 | January February March April TOTAL (Year-to-date) | 1.152 1.021 R1.034 0.933 4.139 | 0.237 0.232 0.282 0.297 1.048 | 0.294 0.239 R0.215 0.182 0.929 | 0.251 0.237 0.233 0.234 0.954 | 0.252 0.233 0.237 0.222 0.944 | 0.011 0.010 0.011 0.010 0.043 | 2.197 1.971 R2.011 1.878 8.058 | 2.197 4.168 R6.180 8.058 |

Geographic coverage: the 50 United States and District of Columbia. Totals may not equal sum of components due to independent rounding. Includes bituminous coal, lignite, and anthracite. Based on deliveries to utilities. Includes net imports of electricity. Includes geothermal power and electricity produced from wood and waste. R=Revised data.

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

Notes and Sources for the Consumption Section

- 1. See Explanatory Note 5 in the Explanatory Notes Section located at the end of this publication for definitions of the Residential and Commercial, Industrial, Transportation, and Electric Utilities Sectors.
- 2. Coal: Coal is anthracite, bituminous coal, and lignite.
 - Sources:

 Anthracite—1973 through 1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Minerals Yearbook, "Coal—Pennsvlvania Anthracite, Annual.'
 - 1977 forward: U.S. Department of Energy (DOE), Energy Information Administration, (EIA) Energy Data Reports, 'Weekly Coal Report."

 - Electric Utilities consumption of coal sources: same as Note 6 below.
- 3. 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 Sectors consumption to the months in proportion to the American Gas Association (AGA) monthly sales to the Residential and Commercial Sectors. For incomplete years, the AGA monthly sales data are used temporarily. Monthly Transportation Sector 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 incomplete years, 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.

 The Electric Utility consumption of natural gas is available monthly from 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 forward: DOE, Energy Data Reports, "Natural Gas Monthly Production and Consumption."
- Electric Utilities consumption: 1973 through 1976, FPC, Form 4, "Monthly Power Plant Report." 1977 forward: DOE, EIA, FPC, Form 4, "Monthly Power Plant Report."
- American Gas Association, "Monthly Gas Utility Statistical Report."
- 4. Petroleum: Petroleum consumption by end-use is the sum of all individual petroleum products consumed in each end-use. First, total consumption by product is determined. Petroleum consumption in this section of the Monthly Energy Review uses the series called "products supplied" in the Petroleum Section.

Sources for petroleum products supplied by individual products are:

- 1973 through 1975: DOI, BOM, Mineral Industry Surveys, "Petroleum Statement, Annual."
- 1976 through 1979: DOE, EIA, Energy Data Reports, "Petroleum Statement, Annual."
 1980 forward: DOE, EIA, Energy Data Reports, "Petroleum Statement, Monthly," DOE, EIA, "Monthly Petroleum Statistics Report," and

 - DOE, EIA, estimates for current months where above sources are not yet available.

Each product's total is allocated to end-use sectors as follows:

- Aviation gasoline-All to the Transportation Sector.
- Asphalt and road oil—All to the Commercial Sector for use by government in road maintenance.
- Distillate fuel—Allocated to the major end-use sectors in proportion to the sales of distillate fuel sold to each sector as reported for 1973 through 1975 in the DOI, BOM, Mineral Industry Surveys, "Fuel Oil Sales, Annual," and for 1976 through 1979 in the DOE, EIA, Energy Data Reports, "Fuel Oil Sales, Annual." In summary, the sectors' proportions are created from sales groupings
 - -Residential and Commercial is sales for heating;
 - Industrial is sales for industrial use, oil company use, and for miscellaneous use except for that part of the miscellaneous use which is diesel used on the highway and is part of the Transportation Sector;
 - -Transportation is sales for vessel bunkering, military, railroads, and diesel used on the highway (from the U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, since 1979); and
 - -Electric Utility is the sales to the electric utilities (except since 1979 when it is deliveries to the electric utilities from the FPC Form 423).
 - The 1979 shares are used as estimates for succeeding periods until sales after 1979 are developed.
- Jet fuel—small amounts in 1975 through 1977 are used in industrial and small amounts in all months are consumed by the electric utilities. All remaining jet fuel is allocated to the Transportation Sector.
- Kerosene—Allocated to the major end-use sectors in proportion to the sales of kerosene sold to the Residential and Commercial Sector and the Industrial Sector as reported for 1973 through 1975 in the DOI, BOM, Mineral Industry Surveys, "Fuel Oil Sales, Annual," and for 1976 through 1979 in the DOE, EIA, Energy Data Reports, "Fuel Oil Sales, Annual":
 - -Residential and Commercial is sales for heating in the "Fuel Oil Sales, Annual.
 - -Industrial is sales for "All Other Uses" in the "Fuel Oil Sales, Annual."
 - The 1979 shares are used as estimates for succeeding periods until sales after 1979 are developed.
- Liquefied petroleum gases (LPG)—Allocated to the major end-use sectors in proportion to the sales of LPG sold to each sector as reported for 1973 through 1975 in the DOI, BOM, Mineral Industry Surveys, "Fuel Oil Sales, Annual," and for 1976 through 1979 in the DOE, EIA, Energy Data Reports, "Fuel Oil Sales, Annual." In summary, the sectors' proportions are created from sales groupings as follows:
 - Residential and Commercial is sales for residential and commercial use;
 - -Industrial is sales for industrial use, for miscellaneous uses, to utility gas companies, to chemical plants, and 84 percent of LPG sold for use as internal combustion engine fuel use; and
 - -Transportation is the remaining 16 percent of LPG sold for use as internal combustion fuel use.
 - The 1979 shares are used as estimates for the succeeding periods until sales after 1979 are developed.
- Lubricants—Allocated to the Industrial Sector and Transportation Sector for all months according to proportions of sales to those 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 from 1977 forward.
- Motor gasoline—the DOE motor gasoline consumption data are allocated to end-use according to shares derived from the U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, Tables MF-21, MF-24 and MF-25. In summary, the sectors' proportions are created from sales groupings as follows:
 - -Residential and Commercial is sales for construction use, for miscellaneous use, for public non-highway use, and for unclassified
 - -Industrial is sales for agriculture and industrial and commercial use as classified in the Highway Statistics; and
 - -Transportation is sales for highway use (minus the sales of special fuels which is primarily diesel fuel and is accounted for in the Transportation Sector of distillate fuel) and sales for marine use.

Notes and Sources for the Consumption Section (continued)

- Petroleum coke consumed by the Electric Utilities-FPC, Form 4, "Monthly Power Plant Report." All other petroleum coke is allocated to the Industrial Sector.
- Residual fuel-Allocated to the major end-use sectors in proportion to the sales of residual fuel sold to each sector as reported for 1973 through 1975 in the DOI, BOM, Mineral Industry Surveys, "Fuel Oil Sales, Annual," and for 1976 through 1979 in the DOE, EIA, Energy Data Reports, "Fuel Oil Sales, Annual." In summary, the sectors' proportions are created from sales groupings as follows:
 - -No allocation for Residential Sector;
 - -Sales for heating is assigned to the Commercial Sector;
 - -Industrial Sector sales is the sum of sales for industrial use, oil company use, and miscellaneous uses;
 - -Transportation Sector sales is the sum of sales for vessel bunkering, military, and railroads; and
 - -Electric Utility is the sales to the electric utilities (except since 1979 when it is deliveries to the electric utilities from the FPC
 - The 1979 shares are used as estimates for succeeding periods until sales after 1979 are developed.
- · All other products are allocated to the Industrial Sector.
- 5. 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 Utility Sector. Sources for Electric Utility Sector:
 - 1973 through 1976, FPC, Form 4, "Monthly Power Plant Report."
 - 1977 forward: DOE, EIA, FPC, Form 4, "Monthly Power Plant Report."

Sources for Industrial Sector:

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

Note: For 1977 forward, monthly data are not available from above sources and were estimated by seasonalizing the annual numbers in proportion to each month's hydroelectricity generation in the Electric Utility Sector.

Sources for Imports and Exports of Electricity: Annual Data from DOE, Economic Regulatory Administration, "Report on Electric Energy Exchanges with Canada and Mexico." 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, 1979 estimates are used for succeeding periods until later estimates are developed.

- 6. Nuclear: Sources: 1973 through 1976: FPC, Form 4, "Monthly Power Plant Report."
 1977 forward: DOE, EIA, FPC, Form 4, "Monthly Power Plant Report."
- 7. Net Coke Imports: Net coke imports is coke made from coal.
 - Sources: 1973 through 1975, DOI, BOM, Minerals Yearbook, "Coke and Coal Chemicals, Annual."
 - 1976 forward: DOE, EIA, Energy Data Reports, "Coke and Coal Chemicals, Monthly."
- 8. Other Energy: "Other" is electricity produced from geothermal power and from wood and waste. Sources: same as Note 6 above, for Nuclear. 9. Electricity Sales: The total energy consumed by electric utilities to generate and transmit electricity to the end-users, including all losses, is allocated to the major end-users in proportion to the sales of electricity to the end-use sectors. "Other" sales, largely for use in government buildings, is allocated to the Residential and Commercial Sector, and about 4.2 percent of "Other" is for railroad usage and is counted in the Transportation Sector.

Source of sales data: 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."

10. Electrical Energy Losses: In generating electricity with nuclear or fossil fuels, approximately 65 percent of the energy is lost in the form of heat. Transmission and distribution losses consume about an additional 3 percent of the energy inputs of the utility industry. In order to fully account for all energy consumed both directly and indirectly (i.e., utilities energy disposition), the electricity losses are allocated to the final enduse sectors in proportion to their direct kilowatt-hour usage, i.e., sales.

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| | | |

Motor gasoline supplied during May 1981 averaged 6.6 million barrels per day, 1.9 percent lower than the amount supplied in May 1980 and 1.8 percent higher than in April 1981. Total motor gasoline stocks were 255.1 million barrels at the end of May 1981, 3.0 percent below the stock level a year ago

In May 1981, 2.5 million barrels of distillate fuel oil were supplied per day, 4.5 percent higher than the amount supplied a year ago and relatively unchanged from the April 1981 rate. Distillate fuel oil stocks were 166.8 million barrels at the end of May 1981, 8.9 percent below the stock level 1 year ago and 1.4 percent higher than the previous month's level.

and 6.7 percent below the April 1981 level.

Residual fuel oil supplied in May 1981 averaged 1.6 million barrels per day, 29.5 percent lower than in May 1980. Residual fuel oil stocks measured 77.1 million barrels at the end of May 1981, 12.0 percent below the level a year ago and 5.2 percent higher than the previous month's level.

Crude Oil and Refined Petroleum Products*

Domestic crude oil production during May 1981 averaged 8.6 million barrels per day. This production rate was 1.0 percent below the rate in May 1980 and 1.0 percent higher than in April 1981.

Total petroleum imports averaged 5.6 million barrels per day in May 1981, 15.1 percent less than the May 1980 rate and 2.5 percent higher than in April 1981.

In May 1981, 15.2 million barrels per day of petroleum products were supplied for domestic use. Motor gasoline accounted for 43.3 percent of the total, distillate fuel oil 16.5 percent, and residual fuel oil 10.3 percent.

Part 3

Petroleum

^{*}Estimates for the most recent month are based on 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 months, crude production is an EIA estimate. The above import data excludes imports into the Strategic Petroleum Reserve.

Petroleum

Crude Oil

| | | Crude Input to Refineries | Total Domestic Production ¹ ² | Alaskan Production | Crude Oil Imports ³ | Strategic Petroleum Reserve (SPR) Imports | Crude Oil Exports | Primary Crude Oil Stocks ¹ | Strategic Petroleum Reserve (SPR) Stocks |
|------|-----------|------------------------------------|---|-----------------------|-----------------------------------|---|----------------------|---|--|
| | | | - | Thousand barre | els per day | | | Thousar | d barrels |
| 1973 | AVERAGE | 12,431 | 9,208 | 198 | 3,244 | | 2 | ‡242,478 | |
| 1974 | AVERAGE | 12,133 | 8,774 | 193 | 3,477 | | 3 | ‡265,020 | |
| 1975 | AVERAGE | 12,442 | 8,375 | 191 | 4,105 | | 6 | ‡271,354 | |
| 1976 | AVERAGE | 13,416 | 8,132 | 173 | 5,287 | | 8 | ‡285,471 | |
| 1977 | AVERAGE | 14,602 | 8,245 | 464 | 6,594 | 20 | 50 | ‡339,857 | ‡ 7,540 |
| 1978 | AVERAGE | 14,739 | 8,707 | 1,229 | 6,195 | 162 | 158 | ‡309,421 | ‡66,860 |
| 1979 | AVERAGE | 14,648 | 8,552 | 1,401 | 6,452 | 67 | 235 | ‡339,074 | ‡91,191 |
| 1980 | January | 14,298 | 8,648 | 1,634 | 6,359 | 0 | 311 | 353,611 | 91,191 |
| | February | 14,189 | 8,696 | 1,630 | 5,936 | 0 | 310 | 361,648 | 91,191 |
| | March | 13,709 | 8,712 | 1,647 | 5,785 | 0 | 323 | 361,742 | 91,191 |
| | April | 13,484 | 8,688 | 1,649 | 5,555 | 0 | 216 | 379,352 | 91,191 |
| | May | 13,326 | 8,640 | 1,628 | 5,071 | 0 | 308 | 383,902 | 91,191 |
| | June | 13,705 | . 8,547 | 1,626 | 5,480 | 0 | 365 | 382,035 | 91,191 |
| | July | 13,251 | 8,555 | 1,612 | 4,645 | 0 | 238 | 379,280 | 91,191 |
| | August | 13,011 | 8,422 | 1,612 | 4,723 | _0 | 78 | 387,605 | 91,191 |
| | September | 13,312 | 8,619 | 1,610 | 4,653 | 54 | 322 | 375,989 | 92,824 |
| | October | 12,777 | 8,536 | 1,588 | 4,570 | 131 | 309 | 378,488 | 96,645 |
| | November | 13,119 | 8,499 | 1,561 | 4,524 | 142 | 289 | 372,811 | 102,320 |
| | December | 13,648 | 8,609 | 1,602 | 4,848 | 198 | 343 | 357,702 | 107,800 |
| | AVERAGE | 13,483 | 8,597 | 1,617 | 5,177 | 44 | 284 | _ | |
| 1981 | January† | 13,234 | 8,550 | 1,611 | 4,790 | 106 | 339 | 374,825 | 112,490 |
| | February† | 12,851 | 8,611 | 1,628 | 4,731 | 80 | 198 | 385,098 | 116,057 |
| | March† | 12,399 | 8,576 | 1,628 | 4,341 | 140 | 210 | 396,008 | 120,860 |
| | April† | R12,097 | 8,466 | 1,614 | R4,172 | 272 | 198 | R403,918 | 134,170 |
| | May† | 12,477 | 8,552 | 1,582 | 4,245 | NA | NA | 416,578 | NA |
| | AVERAGE | 12,610 | 8,550 | 1,612 / | 4,452 | NA | NA | | |

Geographic coverage: the 50 United States and District of Columbia.

*Includes lease condensate.
*Includes Alaskan production.
*Excludes SPR. Strategic Petroleum Reserve storage began in October 1977.
Estimated data in italics. These are likely to be revised.

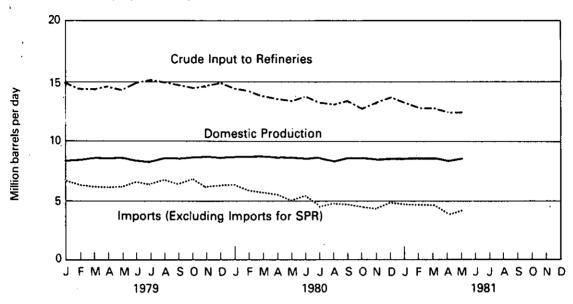
*Total as of December 31.
*Preliminary data. R = Revised data. NA = Not available.

*Sources: *See Sources on the last page of this section.

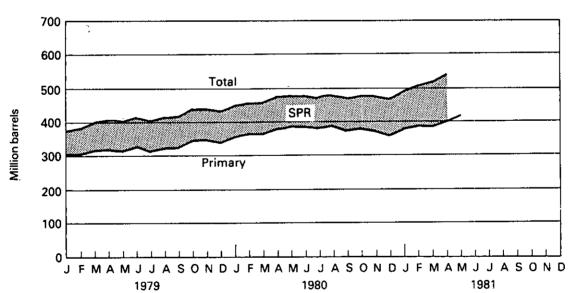
Petroleum

Crude Oil

Production, Refinery Input and Imports



Stocks



Petroleum

| | | T | otal Petroleui Products ⁱ | m | Total Crude Oil and Petroleum Products Trade | | | | | |
|------|-----------|-----------------------------------|---|--------------------|--|-----------------------------|--|------------------|----------------|--|
| | | Products Supplied ¹ | Product Imports ² | Product Exports | Total Imports (Excluding SPR) | SPR Imports ³ | Total Imports (Including SPR) ² | Total Exports | Net Imports | |
| | | Thous | sand barrels p | er day | | Thou | sand barrels per da | y | | |
| 1973 | AVERAGE | 17,308 | 3,012 | 229 | 6,256 | | | 231 | 6,025 | |
| 1974 | AVERAGE | 16,653 | 2,635 | 218 | 6,112 | | | 221 | 5,892 | |
| 1975 | AVERAGE | 16,322 | 1,951 | 204 | 6,056 | | | 209 | 5,846 | |
| 1976 | AVERAGE | 17,461 | 2,026 | 215 | 7,313 | | | 223 | 7,090 | |
| 1977 | AVERAGE | 18,431 | 2,193 | 193 | 8,787 | 20 | 8,807 | 243 | 8,565 | |
| 1978 | AVERAGE | 18,847 | 2,008 | 204 | 8,202 | 162 | 8,363 | 362 | 8,002 | |
| 1979 | AVERAGE | 18,513 | 1,937 | 236 | 8,389 | 67 | 8,456 | 471 | 7,985 | |
| 1980 | January | 18,656 | 1,983 | 228 | 8,342 | 0 | 8,342 | 539 | 7,803 | |
| | February | 18,815 | 1,911 | 227 | 7,847 | 0 | 7,847 | 536 | 7,311 | |
| | March | 17,385 | 1,724 | 243 | 7,509 | 0 | 7,509 | 566 | 6,943 | |
| | April | 16,724 | 1,430 | 241 | 6,985 | 0 | 6,985 | 457 | 6,528 | |
| | May | 16,143 | 1,478 | 266 | 6,549 | 0 | 6,549 | 573 | 5,975 | |
| | June | 16,214 | 1,413 | 288 | 6,893 | 0 | 6,893 | 654 | 6,239 | |
| | July | 15,962 | 1,401 | 292 | 6,046 | 0 | 6,046 | 530 | 5,516 | |
| | August | 15,727 | 1,379 | 241 | 6,102 | 0 | 6,102 | 319 | 5,784 | |
| | September | 16,548 | 1,475 | 235 | 6,129 | 54 | 6,183 | 557 | 5,626 | |
| | October | 16,911 | 1,603 | 288 | 6,173 | 131 | 6,303 | 598 | 5,706 | |
| | November | 16,694 | 1,729 | 260 | 6,252 | 142 | 6,395 | 549 | 5,846 | |
| | December | 18,354 | 1,812 | 279 | 6,660 | 198 | 6,858 | 622 | 6,236 | |
| | AVERAGE | 17,006 | 1,611 | 258 | 6,787 | 44 | 6,831 | 542 | 6,290 | |
| 1981 | Januaryt | 18,132 | 1,827 | 202 | 6,617 | 106 | 6,723 | 540 | 6,183 | |
| | Februaryt | 16,773 | 1,814 | 354 | 6,540 | 89 | 6,620 | 552 | 6,068 | |
| | March | 15,569 | 1,404 | 351 | 5,746 | 140 | 5,885 | 561 | 5,324 | |
| | April† | R15,593 | R1,253 | 358 | R5,425 | 272 | 5,697 | 556 | 5,141 | |
| | Mayt | 15,220 | 1,315 | NA | 5,560 | NA | NA | NA | NA | |
| | AVERAGE | 16,252 | 1,519 | NA | 5,970 | NA | NA | NA | NA | |

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

See Definitions.

Includes plant condensate, natural gasoline and unfinished oils.

Strategic Petroleum Reserve storage began in October 1977.

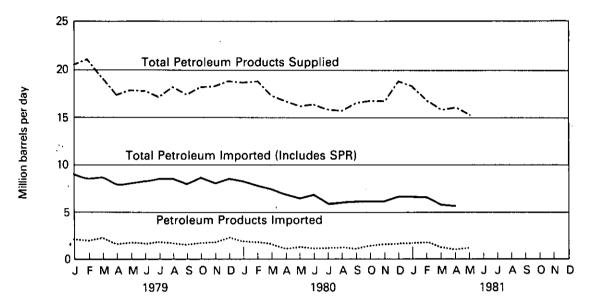
Estimated data in italics. These are likely to be revised.

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

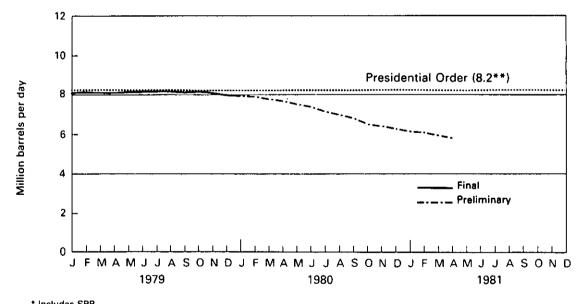
Sources: •See Sources on the last page of this section.

Products Supplied and Imports

Products Supplied and Imports



Net Imports* of Crude Oil and Refined Products (Average for the Latest 12 Months)



^{*} Includes SPR.

*• In his January 1980 State of the Union address, President Carter announced his revised net import ceiling of 8.2 million barrels per day for 1980. The figure was previously 8.5 million barrels per day.

Petroleum

Petroleum Imports from OPEC Sources

| • | Algeria | Indonesia | Iran | Libya | Nigeria | Saudi Arabia | United Arab Emirates | Venezuela | Other OPEC ¹ | Total OPEC | Arab Members of OPEC ³ |
|-----------------|------------|------------|------|------------|------------|-----------------|----------------------------|------------|----------------------------|----------------|---|
| | | | | | Tho | usand bar | rels per day | | | | |
| 1973 AVERAGE | 136 | 213 | 223 | 164 | 459 | 486 | 71 · | 1,135 | 106 | 2,993 | 915 |
| 1974 AVERAGE | 190 | 300 | 469 | 4 | 713 | 461 | 74 | 979 | 88 | 3,280 | 752 |
| 1975 AVERAGE | 282 | 390 | 280 | 232 | 762 | 715 | 117 | 702 | 122 | 3,601 | 1,383 |
| 1976 AVERAGE | 432 | 539 | 298 | 453 | 1,025 | 1,230 | 254 | 700 | 134 | 5,066 | 2,424 |
| 1977 AVERAGE | 559 | 541 | 535 | 723 | 1,143 | 1,380 | 335 | 690 | 287 | 6,193 | 3,185 |
| 1978 AVERAGE | 649 | 573 | 555 | 654 | 919 | 1,144 | 385 | 645 | 226 | 5,751 | 2,963 |
| 1979 AVERAGE | 636 | 420 | 304 | 658 | 1,080 | 1,356 | 281 | 690 | 212 | 5,637 | 3,056 |
| 1980 January | 484 | 433 | 80 | 617 | 1,054 | 1,562 | 202 | 583 | 179 | 5,195 | 3,001 |
| February | 639 | 317 | 9 | 603 | 1,013 | 1,399 | 304 | 543 | 140 | 4,967 | 3,016 |
| March | 472 | 405 | 0 | 654 | 924 | 1,390 | 370 | 352 | 175 | 4,742 | 2,979 |
| April | 556 | 374 | 0 | 683 | 722 | 1,294 | 150 | 339 | 228 | 4,346 | 2,866 |
| May | 441 | 360 | Ŏ | 468 | 955 998 | 1,149 1,327 | 172 178 | 405 409 | 132 105 | 4,083 4,408 | 2,314 2,598 |
| June | 497 537 | 331 308 | 0 | 561 492 | 721 | 1,179 | 158 | 411 | 55 | 3,861 | 2,378 |
| July August | 432 | 289 | ŏ | 431 | 770 | 1,136 | 142 | 397 | 98 | 3,695 | 2,205 |
| September | 375 | 299 | Ö | 505 | 735 | 1,112 | 107 | 425 | 111 | 3,670 | 2,185 |
| October | 463 | 348 | Ö | 476 | 716 | 1,043 | 182 | 482 | 52 | 3,762 | 2,178 |
| November | 493 | 348 | ŏ | 500 | 599 | 1,201 | 105 | 595 | 78 | 3,920 | 2,339 |
| December | 417 | 280 | Ó | 641 | 958 | 1,300 | 83 | 610 | 101 | 4,391 | 2,460 |
| AVERAGE | 483 | 341 | 8 | 552 | 847 | 1,257 | 179 | 463 | 121 | 4,251 | 2,541 |
| 1981 | | | | | | | | | | | |
| January† | 324 | 407 | 0 | 485 | 908 | 1,285 | 93 | 550 | 27 | 4,079 | 2,187 |
| February† | 381 | 396 | 0 | 462 | 867 | 1,116 | 93 | 460 | 96 | 3,871 | 2,057 |
| March† | 352 | 324 | 0 | 464 | 771 | 1,027 | 47 | 353 | 54 | 3,393 | 1,890 |
| April† | 263 | 314 | 0 | 488 | 826 | 1,043 | 85 | 239 | 42 | 3,299 | 1,895 |
| AVERAGE | 329 | 360 | 0 | 475 | 843 | 1,119 | 79 | 400 | 54 | 3,658 | 2,007 |

Geographic coverage: the 50 United States and District of Columbia.

Totals may not equal sum of components due to independent rounding.
Beginning in October 1977 Strategic Petroleum Reserve imports are included.

Includes Ecuador, Gabon, Iraq, Kuwait and Qatar.

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

†Preliminary data.

Sources: • See Sources on the last page of this section.

Petroleum Imports from Non-OPEC Sources

| | Bahamas | Canada | Mexico | Netherlands Antilles | Puerto Rico | Trinidad and Tobago | Virgin Islands | Other | Total |
|-----------------|----------|------------|------------|-------------------------|----------------|------------------------|-------------------|-------|-------|
| | | | | Thousa | nd barrels p | er day | | | |
| 1973 | | | | | | | | | |
| AVERAGE | 174 | 1,325 | 16 | 585 | 99 | 255 | 329 | 480 | 3,263 |
| AVERAGE | 164 | 1,070 | 8 | 511 | 90 | 251 | 391 | 347 | 2,832 |
| 1975 | | | | | | | | | _, |
| AVERAGE | 152 | 846 | 71 | 332 | 90 | 242 | 406 | 314 | 2,454 |
| 1976 AVERAGE | ,118 | 599 | 87 | 275 | 88 | 274 | 422 | 382 | 2,247 |
| 1977 | 1,7-1-0 | 000 | 0, | 2.0 | 00 | 2/4 | 424 | 302 | 2,247 |
| AVERAGE | .171 | 517 | 179 | 211 | 105 | 289 | 466 | 676 | 2,614 |
| 1978 | | | | | | | | | |
| AVERAGE | 160 | 467 | 318 | 229 | 94 | 253 | 429 | 663 | 2,613 |
| 1979 AVERAGE | 147 | 538 | 439 | 231 | 92 | 190 | 404 | 724 | |
| | 177 | 336 | 433 | 231 | 92 | 190 | 431 | 751 | 2,819 |
| 1980 January | 175 | 569 | 545 | 289 | 50 | 000 | 407 | | |
| February | 111 | 540 | 463 | 205 | 56 | 239 | 467 | 806 | 3,147 |
| March | 124 | 460 | 463 460 | | 95 | 192 | 522 | 752 | 2,880 |
| April | 56 | 411 | | 184 | 81 | 189 | 443 | 827 | 2,767 |
| May | 77 | 419 | 546 | 231 | 63 | 143 | 418 | 771 | 2,639 |
| June | 77 | 419 | 576 | 184 | 88 | 221 | 303 | 597 | 2,466 |
| | 43 | | 627 | 196 | 91 | 160 | 315 | 611 | 2,485 |
| July August | 43 62 | 378 319 | 434 | 242 | 90 | 180 | 365 | 454 | 2,185 |
| September | 58 | 403 | 646 | 255 | 85 | 159 | 254 | 627 | 2,407 |
| October | 70 | 403 473 | 549 604 | 213 | 52 | 205 | 343 | 690 | 2,513 |
| November | 22 | 473 470 | | 238 267 | 107 | 114 | 359 | 577 | 2,542 |
| December | 54 | 502 | 458 | | 108 | 157 | 391 | 602 | 2,475 |
| | | | 445 | 212 | 109 | 149 | 423 | 573 | 2,467 |
| AVERAGE | 78 | 446 | 530 | 226 | 85 | 176 | 383 | 656 | 2,580 |
| 1981 | | | | | | | | | |
| Januaryt | 39 | 516 | 388 | 197 | 89 | 150 | 494 | 770 | 2.644 |
| February† | 84 | 488 | 420 | 227 | 46 | 163 | 481 | 840 | 2,749 |
| March† | 66 | 412 | 460 | 227 | 45 | 93 | 370 | 819 | 2,492 |
| April† | 60 | 375 | 420 | 195 | 40 | 139 | 365 | 802 | 2,398 |
| AVERAGE | 62 | 447 | 422 | 212 | 55 | 136 | 427 | 807 | 2,568 |

Geographic coverage: the 50 United States and District of Columbia.

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

Beginning in October 1977 Strategic Petroleum Reserve imports are included.

*Includes Non-OPEC Arab, Western Europe, Angola, U.S.S.R., Rumania, other Western Hemisphere and other Eastern Hemisphere.

†Preliminary data.

Sources: *See Sources on the last page of this section.

Motor Gasoline

| | Pr | oduct Suppli | ed¹ | | Imp | orts ¹² | | Stoc | ks ¹²³ |
|-----------|--------|--------------|---------------------------------|--------------------------------------|----------------------------|-------------------------------|--------------|----------------------------|-------------------------------|
| _ | Total | Unleaded | Unleaded Percent of Total | Refinery Production ¹³ | Total Motor Gasoline | Finished Motor Gasoline | - Exports | Total Motor Gasoline | Finished Motor Gasoline |
| • | | | The | ousand barrels pe | r day | | | Thousar | nd barrels |
| 1973 | | | | | | | | | |
| AVERAGE | 6,674 | NA | NA | 6,527 | 134 | | 4 | ‡209,395 | |
| 1974 | | | | | | | | | |
| AVERAGE | 6,537 | NA | NA | 6,358 | 204 | | 2 | ‡218,346 | |
| 1975 | | | | | | | | | |
| AVERAGE | 6,675 | NA | NA | 6,518 | 184 | | 2 | ‡234,925 | |
| 1976 | | | | | | | | | |
| AVERAGE | 6,978 | NA | NA | 6,838 | 131 | | 3 | ‡231,387 | |
| 1977 | | | | | | | | | |
| AVERAGE | 7,177 | 1,976 | 27.5 | 7,031 | 217 | | 2 | ‡257,578 | |
| 1978 | | | | | | | | | |
| AVERAGE | 7,412 | 2,521 | 34.0 | 7,167 | 190 | | 1 | ‡237,956 | |
| 1979 | | | | | | - | | | |
| AVERAGE | 7,034 | 2,798 | 39.8 | 6,837 | 181 | | (s) | ‡237,082 | |
| 1980 | | | | | | | | | |
| January | 6,335 | 2,718 | 42.9 | 6,977 | 141 | | 1 | 262,134 | |
| February | 6,594 | 2,969 | 45.0 | 6,851 | 153 | | (s) | 274,422 | |
| March | 6,411 | 3,032 | 47.3 | 6,512 | 154 | | (s) | 282,688 | |
| April | 6,799 | 3,021 | 44.4 | 6,268 | 152 | | 1 | 271,729 | |
| May | 6,726 | 2,980 | 44.3 | 6,294 | 132 | | 1 | 262,938 | |
| June | 6,661 | 3,099 | 46.5 | 6,552 | 148 | | 1 | 264,583 | |
| July | 6,735 | 3,131 | 46.5 | 6,446 | 149 | | 3 | 260,711 | |
| August | 6,646 | 3,135 | 47.2 | 6,437 | 141 | | 1 | 259,013 | |
| September | 6,511 | 3,054 | 46.9 | 6,369 | 106 | | 7 | 258,135 | |
| October | 6,662 | 3,110 | 46.7 | 6,124 | 152 | | 1 | 246,422 | |
| November | 6,237 | 3,123 | 50.1 | 6,456 | 126 | | (s) | 257,059 | |
| December | 6,628 | 3,421 | 51.6 | 6,632 | 121 | | 1 | 261,327 | |
| AVERAGE | 6,579 | 3,067 | 46.6 | 6,492 | 140 | | 1 | • | |
| 1981 | | | | | | | | | |
| Januaryt | 6,401 | 3,102 | 48.5 | 6.672 | 148 | 137 | (s) | 277,724 | 226,946 |
| February† | 6,306 | 3,115 | 49.4 | 6,244 | 117 | 111 | Ϋ́ | 284,182 | 228,672 |
| March† | 6,247 | 3,098 | 49.6 | 6,150 | 189 | 163 | (s) | 284,427 | 231,063 |
| April† | R6,479 | 3,256 | 50.3 | R6,058 | 195 | 174 | (s) | R273,538 | 223,925 |
| May† | 6,597 | NA NA | NA | 6,157 | 101 | NA | ŇÁ | 255,094 | NA |
| AVERAGE | 6,408 | NA | NA | 6,258 | 150 | NA | NA | • | |

Geographic coverage: the 50 United States and District of Columbia.

'Beginning in January 1981, EIA modified its monthly petroleum surveys. Non-refinery blenders were added to the reporting universe and gasohol included as a motor gasoline component. On the new basis motor gasoline production and product supplied during the last half of 1980 would have averaged 289,000 barrels per day higher than shown.

'Total motor gasoline includes finished motor gasoline and blending components.

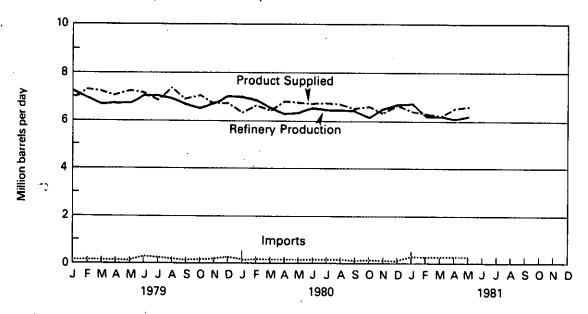
³See Definitions.

^{*}See Definitions.
Estimated data in italics. These are likely to be revised.
‡Total as of December 31.
‡Preliminary data. R=Revised data. NA=Not available. (s)=Less than 500 barrels per day.
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

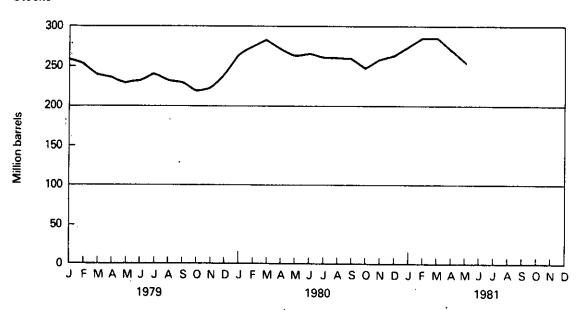
*Sources: *See Sources on the last page of this section.

Motor Gasoline

Product Supplied, Refinery Production and Imports



Stocks



Jet Fuel

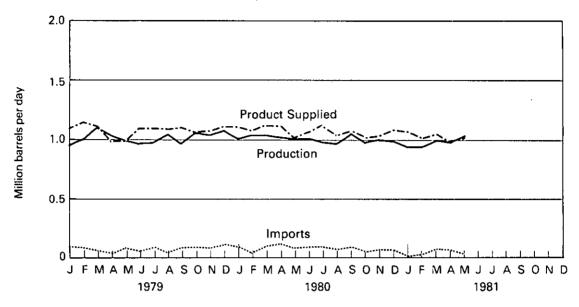
| | | Product Supplied | Refinery Production | Imports | Exports | Stocks |
|------|---|--|--|---|---|--|
| | | | Thousand ba | rrels per day | | Thousand barrels |
| 1973 | AVERAGE | 1,059 | 859 | 212 | 4 | ‡28,544 |
| 1974 | AVERAGE | 993 | 836 | 163 | 3 | ‡ 29,43 5 |
| 1975 | AVERAGE | 1,001 | 871 | 133 | 2 | ‡30,380 |
| 1976 | AVERAGE | 987 | 918 | 76 | 2 | ‡32,085 |
| 1977 | AVERAGE | 1,039 | 973 | 75 | 2 | ‡34,548 |
| 1978 | AVERAGE | 1,057 | 970 | 86 | 1 | ‡33,665 |
| 1979 | AVERAGE | 1,076 | 1,012 | 78 | 1 | ‡3 8, 520 |
| 1980 | January February March April May June July August September October November December AVERAGE | 1,101 1,072 1,116 1,105 1,015 1,057 1,110 1,043 1,056 1,037 1,029 1,083 | 1,004 1,026 1,031 1,023 1,001 1,004 974 959 1,041 977 988 962 999 | 95 43 99 107 79 86 93 67 77 93 66 60 | 1 2 2 3 2 1 2 1 1 1 1 | 38,412 38,258 38,661 39,339 41,310 42,283 40,902 40,331 42,159 43,177 43,921 42,031 |
| 1981 | January† February† March† April† May AVERAGE | 1,058 1,014 1,041 R932 1,013 | 949 943 989 R958 1,033 975 | 12 38 68 R47 <i>36</i> 40 | 1 (s) 1 NA | 39,199 38,247 38,744 R40,914 <i>42,992</i> |

Geographic coverage: the 50 United States and District of Columbia.
Estimated data in italics. These are likely to be revised.
†Total as of December 31.
†Preliminary data. R = Revised data. NA = Not available.
(s) = Less than 500 barrels per day.
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

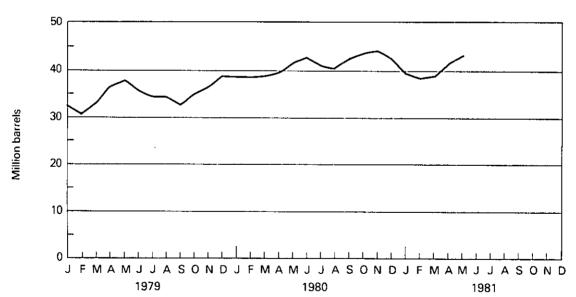
Sources: •See Sources on the last page of this section.

Jet Fuel

Product Supplied, Refinery Production and Imports



Stocks



Distillate Fuel Oil

| | | Product Supplied ¹ | Refinery Production ^{1 2} | Imports | Exports | Stocks ² |
|------|---|--|--|--|---|--|
| | | | Thousand bar | rels per day | | Thousand barrels |
| 1973 | AVERAGE | 3,092 | 2,820 | 392 | 9 | ‡196,421 |
| 1974 | AVERAGE | 2,948 | 2,668 | 289 | 2 | ‡200,029 |
| 1975 | AVERAGE | 2,851 | 2,653 | 155 | 1 | ‡208,787 |
| 1976 | AVERAGE | 3,133 | 2,924 | 146 | 1 | ‡185,948 |
| 1977 | AVERAGE | 3,352 | 3,277 | 250 | 1 | ‡250,260 |
| 1978 | AVERAGE | 3,432 | 3,167 | 173 | 3 | ‡216,439 |
| 1979 | AVERAGE | 3,311 | 3,152 | 193 | 3 | ‡228,712 |
| 1980 | January February March April May June July August September October November December AVERAGE | 3,732 3,706 3,171 2,630 2,402 2,331 2,225 2,136 2,590 2,918 2,916 3,646 | 3,023 2,778 2,564 2,462 2,471 2,645 2,688 2,462 2,687 2,589 2,699 2,892 | 179 221 179 147 126 108 117 77 101 115 133 166 | 7 8 19 2 1 (s) 3 (s) (s) (s) (s) (s) | 212,126 191,464 177,659 177,006 183,072 195,790 213,756 226,305 232,310 225,711 223,261 205,113 |
| 1981 | January† February† March† April† May† AVERAGE | 4,074 3,431 2,893 R2,512 2,511 3,081 | 2,997 2,813 2,485 R2,415 <i>2,499</i> 2,640 | 227 325 140 R113 <i>191</i> | (s) 17 (s) 3 NA | 180,237 171,878 163,853 R164,550 <i>166,817</i> |

Geographic coverage: the 50 United States and District of Columbia.

Beginning in January 1981, EIA modified its monthly petroleum surveys. On the new basis distillate fuel oil production and product supplied in 1980 would have been an average of 105,000 barrels per day higher than shown.

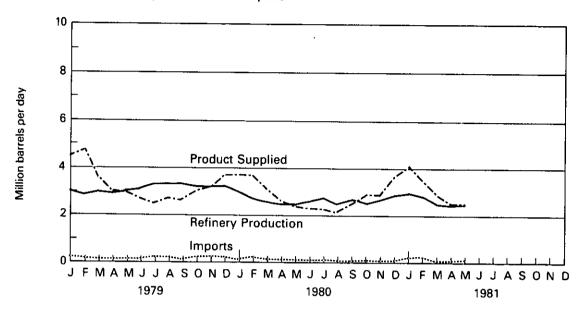
See Definitions.

²See Definitions.
Estimated data in italics. These are likely to be revised.
‡Total as of December 31.
†Preliminary data. R=Revised data. NA=Not available.
(s)=Less than 500 barrels per day.
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

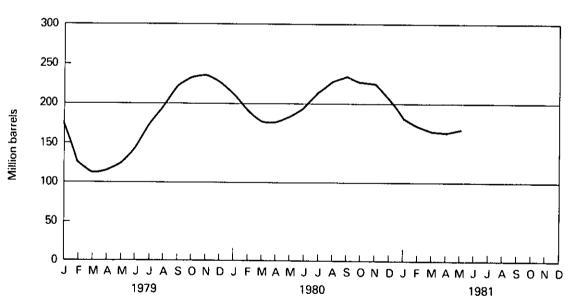
Sources: •See Sources on the last page of this section.

Distillate Fuel Oil

Product Supplied, Refinery Production and Imports



Stocks



Residual Fuel Oil

| | | Product Supplied: | Refinery Production ¹ | Imports | Exports | Stocks |
|------|---|--|--|--|--|--|
| | | | Thousand ba | rrels per day | | Thousand barrels |
| 1973 | AVERAGE | 2,822 | 971 | 1,853 | 23 | ‡53,480 |
| 1974 | AVERAGE | 2,639 | 1,070 | 1,587 | 14 | ‡59, 6 94 |
| 1975 | AVERAGE | 2,462 | 1,235 | 1,223 | 15 | ‡ 74,12 6 |
| 1976 | AVERAGE | 2,801 | 1,377 | 1,413 | 12 | ‡72,344 |
| 1977 | AVERAGE | 3,071 | 1,754 | 1,359 | 6 | ‡89,993 |
| 1978 | AVERAGE | 3,023 | 1,667 | 1,355 | 13 | ‡90,194 |
| 1979 | AVERAGE | 2,826 | 1,687 | 1,151 | 9 | ‡95,598 |
| 1980 | January February March April May June July August September October November December AVERAGE | 2,865 3,099 2,650 2,434 2,234 2,324 2,287 2,287 2,360 2,224 2,430 2,747 2,493 | 1,766 1,770 1,581 1,591 1,507 1,575 1,480 1,444 1,497 1,513 1,577 1,661 | 1,132 1,119 971 769 812 749 787 875 906 871 1,024 1,025 | 5 17 2 240 20 14 60 2 21 70 88 62 33 | 97,153 90,959 88,269 85,219 87,639 87,657 85,605 86,949 87,876 90,989 93,814 90,344 |
| 1981 | January† February† March† April† May† AVERAGE | 2,836 2,578 2,097 R1,828 1,575 2,177 | 1,609 1,562 1,427 R1,329 <i>1,247</i> | 1,015 956 699 R578 <i>722</i> 792 | 65 125 145 151 NA NA | 82,863 78,214 75,068 R73,328 <i>77,115</i> |

Geographic coverage: the 50 United States and District of Columbia.

*Beginning in January 1981, EIA modified its monthly petroleum surveys. On the new basis residual fuel oil production and product supplied in 1980 would have been an average of 54,000 barrels per day higher than shown.

*Beginning in April 1980, residual fuel oil exports increased due to shipments of high sulfur fuel to the Carribean to be desulfurized and returned to the United States. In July 1980, additional exports of high sulfur fuel oil began to be shipped to Asia.

Estimated data in italics. These are likely to be revised.

†Total as of December 31.

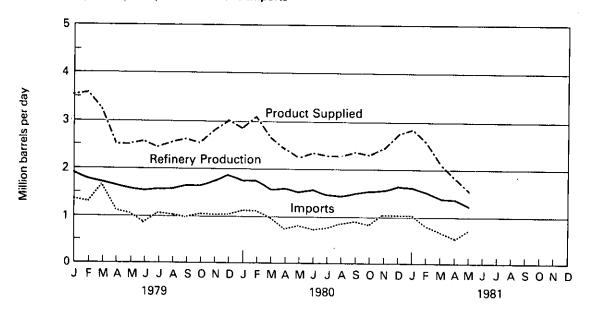
†Preliminary data. R = Revised data. NA = Not available.

Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

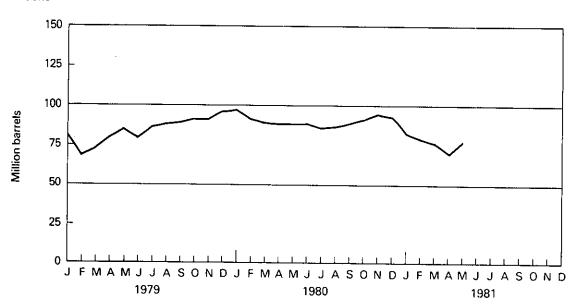
*Sources: *See Sources on the last page of this section.

Residual Fuel Oil

Product Supplied, Refinery Production and Imports



Stocks



Natural Gas Plant Liquids, Including Liquefied Refinery Gases

| | | Products Supplied ¹ | Productio | on¹ | Used at Refinerles ¹ | Imports | Stocks |
|------|-----------|-----------------------------------|----------------------|-------------------|------------------------------------|---------|------------------|
| | | | At processing plants | At refineries | | | Thousand |
| | | | Thousa | ind barrels per d | ay | | barrels |
| 1973 | AVERAGE | 1,454 | 1,738 | 375 | 815 | 239 | ‡106,659 |
| 1974 | AVERAGE | 1,422 | 1,688 | 338 | 746 | 212 | ‡120,175 |
| 1975 | AVERAGE | 1,352 | 1,633 | 311 | 710 | 185 | ‡132,653 |
| 1976 | AVERAGE | 1,407 | 1,603 | 340 | 725 | 196 | ‡124,518 |
| 1977 | AVERAGE | 1,427 | 1,618 | 352 | 673 | 203 | ‡144,902 |
| 1978 | AVERAGE | 1,416 | 1,567 | 355 | 639 | 139 | ²‡140,052 |
| 1979 | AVERAGE | 1,695 | 1,584 | 340 | 504 | 230 | ‡1 25,289 |
| 1980 | January | 2,021 | 1,647 | 338 | 698 | 282 | 110,378 |
| | February | 1,843 | 1,651 | 354 | 572 | 265 | 105,389 |
| | March | 1,573 | 1,569 | 342 | 518 | 224 | 106,070 |
| | April | 1,212 | 1,626 | 328 | 507 | 149 | 117,006 |
| | May | 1,376 | 1,555 | 325 | 428 | 187 | 124,615 |
| | June | 1,385 | 1,559 | 335 | 386 | 93 | 133,516 |
| | July | 1,218 | 1,513 | 325 | 45 5 | 178 | 143,618 |
| | August | 1,244 | 1,514 | 323 | 417 | 166 | 153,716 |
| | September | 1,463 | 1,510 | 314 | 463 | 168 | 155,181 |
| | October | 1,612 | 1,498 | 300 | 501 | 262 | 152,763 |
| | November | 1,697 | 1,568 | 324 | 528 | 240 | 149,277 |
| | December | 1,863 | 1,558 | 346 | 545 | 299 | 142,251 |
| | AVERAGE | 1,542 | 1,564 | 329 | 502 | 218 | |
| 1981 | January† | 1,809 | 1,596 | 332 | 620 | 200 | 132,285 |
| | February† | 1,580 | 1,641 | 384 | 556 | 205 | 134,358 |
| | March† | 1,363 | 1,556 | 312 | 480 | 146 | 139,039 |
| | April† | 1,775 | 1,569 | 319 | 461 | 132 | 131,754 |
| | AVERAGE | 1,632 | 1,590 | 336 | 529 | 170 | |

Geographic coverage: the 50 United States and District of Columbia.

See Explanatory Note 7 and Definitions.

EIA natural gas plant coverage was expanded in January 1979 to include approximately 80 more plants. Calculated on the new basis, December 1978 closing stocks totaled 147,548 thousand barrels.

Total as of December 31.

Preliminary data.

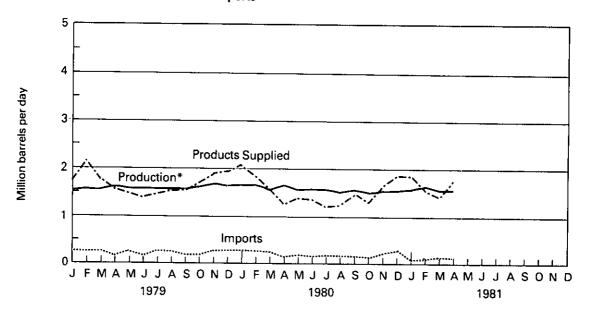
Sources: • 1973 through December 1980 are shown on last page of this section.

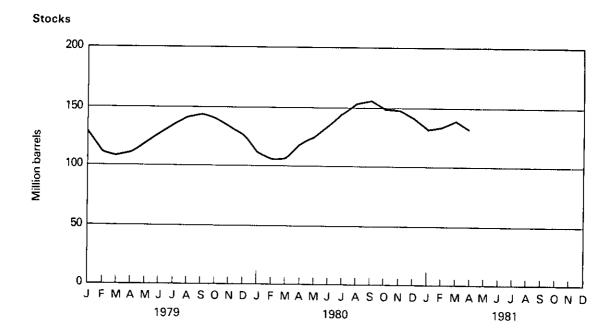
• January 1981 through April 1981: EIA "Monthly Petroleum Statistics Report."

• Sources for the Energy Data Reports are shown on the last page of this section.

Natural Gas Plant Liquids

Products Supplied, Production and Imports





^{*}At processing plants.

Petroleum Primary Supply Balance

| | | | 1980 | | |
|--|--|--|--|--|--|
| | 1st Qtr. | 2nd Qtr. | 3rd Qtr. | 4th Qtr. | Year |
| | | Thou | isand barrels pe | er day | |
| Primary Supply | | | | | |
| Crude oil and lease condensate production Natural gas plant liquids production Other hydrocarbon supply Crude oil imported ³ Petroleum products imported ² | 8,685 1,622 56 6,029 1,872 | 8,625 1,580 49 5,366 1,440 | 8,531 1,513 44 4,692 1,418 | 8,548 1,541 42 4,806 1,714 | 8,597 1,564 48 5,220 1,611 |
| Total new primary supply Processing gain Stock change—all oils ³ | 18,263 629 <u>-1</u> | 17,059 567 <u>+753</u> | 16,197 593 <u>+393</u> | 16,652 591 <u>-557</u> | 17,040 595 <u>+146</u> |
| Total net primary supply | 18,893 | 16,873 | 16,398 | 17,800 | 17,489 |
| Unaccounted for crude oil4 | -57 | +61 | +158 | +131 | +73 |
| Disposition | | | | | |
| Crude oil and petroleum products exported Crude oil losses Total products supplied ³ | 547 15 <u>18,274</u> | 562 14 <u>16,358</u> | 468 14 16,074 | 590 14 <u>17,327</u> | 542 14 17,006 |
| Total disposition | 18,836 | 16,934 | 16,556 | 17,931 | 17,562 |
| | | | 1981 | | |
| | 1st Qtr.† | | | | |
| Primary Supply | | | | | |
| Crude oil and lease condensate production Natural gas plant liquids production Other hydrocarbon supply Crude oil imported ¹ Petroleum products imported ² | 8,578 1,597 39 4,726 1,677 | | | | |
| Total new primary supply Processing gain Stock change—all oils³ | 16,618 578 <u>-7</u> | | | • | |
| Total net primary supply | 17,203 | | | | |
| Unaccounted for crude oils | +188 | | | | |
| Disposition | | | | | |
| Crude oil and petroleum products exported Crude oil losses Total products supplied ^s | 551 14 <u>16,826</u> | | | | |
| Total disposition | 17,391 | | | | |

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
*Includes crude oil imported for the Strategic Petroleum Reserve.
*Includes plant condensate, natural gasoline and unfinished oils.
*Includes petroleum stored in the Strategic Petroleum Reserve.
*Balancing item resulting from statistical inconsistencies.
*Includes international bunkers.
*Preliminary data

^{**}Preliminary data.

**Sources: * 1979: Energy Information Administration (EIA) **Energy Data Report, "Petroleum Statement, Annual."

**January 1980 through December 1980: Energy Information Administration (EIA) **Energy Data Reports, "Petroleum Statement, Monthly."

**January 1981 through March 1981: EIA, "Monthly Petroleum Statistics Report".

Sources for the **Energy Data Reports and the "Monthly Petroleum Statistics Report" are shown on the last page of this section.

Sources for the Petroleum Section

- 1973 through 1976: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Annual" (except unleaded gasoline) and "PAD Districts Supply/Demand, Annual."
- Unleaded gasoline: Energy Information Administration (EIA) "Monthly Petroleum Statistics Report."
 1977 through 1979: EIA Energy Data Reports, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand,
- 1980: EIA Energy Data Reports, "Petroleum Statement, Monthly" and "PAD Districts Supply/Demand, Monthly."
 January 1981 through April 1981: EIA "Monthly Petroleum Statistics Report".
 Data for the most recent month are estimates based on EIA weekly data (except domestic production).

- 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* and the "Monthly Petroleum Statistics Report" are: EIA Forms EIA-64 (Natural Gas Liquids Operations Report), EIA-87 (Refinery Report), EIA-88 (Bulk Terminals Report), EIA-89 (Pipeline Report) and EIA-90 (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).

Natural Gas

Consumption of natural gas in the United States during May 1981 was an estimated 1.4 trillion cubic feet (Tcf). This was 5.4 percent lower than in April 1981 and 4.1 percent higher than in May 1980. Estimated consumption during the first 5 months of 1981 totaled 9.0 Tcf, 5.6 percent less than during the period January through May 1980.

Production of dry natural gas in May 1981 was an estimated 1.6 Tcf, 1.3 percent higher than in April 1981 and 1.5 percent lower than in May 1980. Output during the period January through May 1981 totaled 8.1 Tcf, 3.3 percent less than during the comparable 1980 period.

Imports of natural gas in May 1981 were an estimated 62 billion cubic feet (Bcf), 11.4 percent less than in the previous May. During the first 5 months of 1981, imports of natural gas totaled an estimated 368 Bcf, 26.3 percent lower than during the comparable 1980 period. Receipts of foreign gas during May 1981 included Algerian liquefied natural gas (LNG) equivalent to approximately 3 Bcf.

Domestic producer sales to major interstate pipelines in April 1981 totaled 905 Bcf, 0.9 percent above sales for the previous April. Total sales during the first 4 months of 1981 were 3.7 Tcf, 1.3 percent less than sales during the comparable 1980 period.

Stocks of working gas* in underground natural gas storage reservoirs at the end of May 1981 totaled 2.0 Tcf, 1.1 percent below stocks available a year earlier. Net storage injections during May 1981 were 218 Bcf, 29.9 percent lower than during the previous May.

りるエチム

Natural Gas

^{*}Gas available for withdrawal.

Natural Gas

| | | | Production | | Domestic Producer | | |
|------|---|--|--|---|--|---|--|
| | | Domestic Consumption | Marketed | Dry | Sales to Major Interstate Pipelines | Imports | Exports |
| | | | | Billion | cubic feet | | |
| 1973 | TOTAL | 22,049 | 22,648 | 21,731 | 12,067 | 1,033 | 77 |
| 1974 | TOTAL | 21,223 | 21,601 | 20,714 | 11,462 | 959 | 77 |
| 1975 | TOTAL | 19,538 | 20,109 | 19,237 | 10,652 | 953 | 73 |
| 1976 | TOTAL | 19,946 | 19,952 | 19,098 | 10,140 | 964 | 65 |
| 1977 | TOTAL | 19,521 | 20,025 | 19,163 | 9,883 | 1,011 | 56 |
| 1978 | TOTAL | 19,627 | 19,974 | 19,122 | 9,911 | 966 | 53 |
| 1979 | TOTAL | 20,241 | 20,471 | 19,663 | 10,496 | 1,253 | 56 |
| 1980 | January February March April May June July August September October November December | 2,279 2,192 2,099 1,568 1,355 1,253 1,301 1,246 1,299 1,542 1,783 2,156 20,073 | 1,817 1,705 1,827 1,667 1,692 1,583 1,613 1,572 1,577 1,647 1,651 1,794 | 1,745 1,638 1,754 1,601 1,625 1,520 1,549 1,515 1,582 1,586 1,723 | 981 898 960 897 859 794 825 828 800 894 906 963 | 119 111 108 91 70 62 64 60 58 73 85 93 | 5 3 5 6 6 5 6 5 4 3 3 4 5 5 5 |
| 1981 | January February March April May TOTAL (Year-to-date) | 2,256 1,899 R1,906 1,490 1,410 8,961 | 1,769 1,592 R1,745 1,640 1,670 8,416 | 1,699 1,529 R1,676 1,580 1,600 8,084 | 965 873 945 905 NA NA | 86 79 73 R68 62 368 | 5 3 4 3 5 20 |

Geographic coverage: the 50 United States and District of Columbia.

R = Revised data. NA = Not available.

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"; January 1980 forward: EIA estimates based on a supply/disposition balance calculation.

• Production —State reports to the Interstate Oil Compact Commission, data from the United States Geological Survey and EIA estimates for states that do not report monthly data on a regular or timely basis.

• Domestic Producer Sales—Federal Power Commission (FPC) Form 11, "Natural Gas Pipeline Company Monthly Statement."

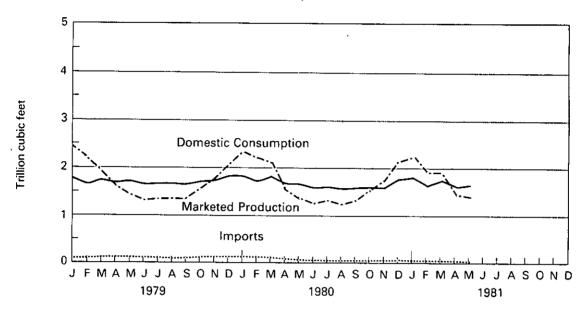
• Imports—1973 through 1979: FPC Form 14, "Imports and Exports of Natural Gas"; January 1980 forward: EIA estimates based on import data from FPC Form 11.

• Exports—1973 through 1979: FPC Form 14; January 1980 forward: EIA estimates based primarily on historical data reported on FPC

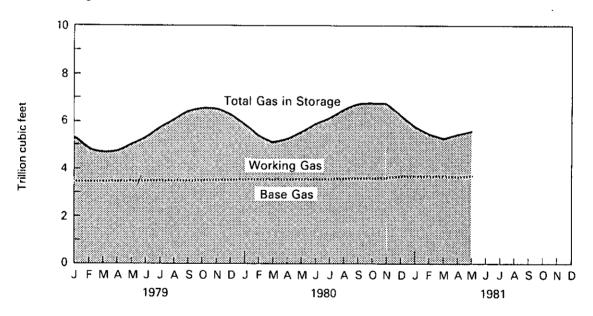
[•] Exports —1973 through 1979: FPC Form 14; January 1980 forward: EIA estimates based primarily on historical data reported on FPC Form 14.

Natural Gas

Domestic Consumption, Marketed Production and Imports



Gas in Storage



Natural Gas Natural Gas in Underground Storage¹

Net **Total Gas** Working Storage Storage Storage Base in Injections² Gas Injections Withdrawals Storage Gas Billion cubic feet NA NA ‡2,208 NA 1975 TOTAL **‡5,358** ‡3,150 2,074 (122)‡1,922 1,952 1976 **TOTAL** ‡5,231 ‡3,310 2,390 1,767 623 12,466 ‡3,377 1977 **TOTAL** 15,844 12,540 2,330 2,176 154 ‡3,459 1978 **TOTAL ‡5,999** ‡2,761 2,384 2,041 343 13,537 TOTAL 16,297 1979 3,535 2,330 21 465 (444)5,865 1980 January (469) 1,861 493 24 3,536 February 5,397 307 (266)5,131 3,542 1,589 41 March 174 78 96 1,680 3,547 April 5,227 311 8 May 5.538 3,553 1,985 319 2,281 316 13 303 3,560 5,841 June 284 18 6,127 3,564 2,563 302 July 3,594 2,850 328 30 298 August 6,444 249 260 .11 6,692 3,596 3,096 September 3,184 3,598 141 53 88 October 6,782 203 (137)66 November 6,639 3,620 3,019 2,643 (368)34 402 December 6,272 3,629 5,763 537 (509)3.629 2,134 28 1981 January 385 (323)62 3,628 1,812 February 5,440 (193)3,630 1,618 50 243 5,248 March

1,749

1,964

191

243

3,631

3,634

5,380

5.598

132

218

59

25

April

May

Geographic coverage: the 50 United States and District of Columbia.

'See Explanatory Note 9.

²Net Storage Injections = storage injections minus storage withdrawals. Parentheses indicate withdrawals greater than injections. ‡Total as of December 31.

NA = Not available

Source: • Energy Information Administration Form 191 and Federal Power Commission Form 8, "Underground Gas Storage Report."

Oil and Gas Resource Development

The May rotary rig count of 3,816 is the highest in U.S. drilling history. The count surpassed the previous record of 3,728 rigs the month before. This was a 36.4 percent increase over the May 1980 count of 2,797 rotary rigs.

Well completions reported in May 1981 totaled 5,438. This is a 25.9 percent increase from the number reported during May 1980.

Oil well completions reported in May 1981 (2,604 reported) were up 26.5 percent from May 1980 (2,059 reported). In May 1981, 1,159 gas well completions were reported, 8.3 percent above the May 1980 level. Dry hole completions reported increased 40.6 percent (1,675 as compared to 1,191 during the previous May). Total reported footage drilled increased 24.8 percent (24.8 million feet as compared to 19.9 million feet the year before).

There were 42 crews engaged in seismic exploratory work offshore in May 1981. This is a 23.5 percent increase from the May 1980 level. May 1981 onshore seismic activity attained a new high of 619 crews, 32.3 percent higher than activity during May 1980.

Part 5

Oil and Gas Resource Development

| | | Rotary Rigs In Operation | | Ex | ploratory a Wells Co | ment | Total Footage of Wells Completed ¹ | |
|------|---|--|-------|--|---|---|---|---|
| | | 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 | 1,475 | 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 | 1,656 | 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 | January February March April May June July August September October November December AVERAGE | 2,571 2,613 2,658 2,682 2,797 2,850 2,953 3,045 3,099 3,148 3,220 3,286 2,910 | TOTAL | 1,436 1,635 2,390 1,841 R2,059 2,232 2,068 2,340 2,636 2,409 2,239 3,675 27,026 | 782 1,000 1,834 1,121 R1,070 1,296 1,037 1,270 1,721 1,191 1,498 1,903 15,730 | 1,240 1,297 1,542 1,158 R1,191 1,463 1,333 1,537 1,761 1,692 1,598 2,237 | 3,458 3,932 5,766 4,120 R4,320 4,991 4,438 5,147 6,118 5,292 5,335 7,815 | 16,475 18,891 27,691 18,855 R19,899 24,640 21,649 24,037 28,168 24,554 25,273 33,806 |
| 1981 | January February March April May AVERAGE | 3,386 3,502 3,595 3,728 3,816 3,606 | TOTAL | 1,789 2,462 3,102 2,905 2,604 12,862 | 971 1,045 1,424 1,600 1,159 6,199 | 1,360 1,609 1,878 1,546 1,675 8,068 | 4,120 5,116 6,404 6,051 5,438 27,129 | 20,195 22,763 30,144 27,836 24,842 125,779 |

Geographic coverage: the 50 United States and District of Columbia.
¹These data are for well completions reported to the American Petroleum Institute during the reporting period. Excludes 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.

Note: 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: American Petroleum Institute (API), "Monthly Drilling Report" and "Quarterly Review of Drilling Statistics for the United States."

Oil and Gas Resource Development

Crews Engaged in Seismic Exploration

| | | Seisinic Exploration | | | | | |
|------|---|--|--|--|--|--|--|
| | | Offshore | Onshore | Total | | | |
| | | Мо | nthly averag | е | | | |
| 1973 | AVERAGE | 23 | 227 | 250 | | | |
| 1974 | AVERAGE | 31 | 274 | 305 | | | |
| 1975 | AVERAGE | 30 | 254 | 284 | | | |
| 1976 | AVERAGE | 25 | 237 | 262 | | | |
| 1977 | AVERAGE | 27 | 281 | 308 | | | |
| 1978 | AVERAGE | 25 | 327 | 352 | | | |
| 1979 | AVERAGE | 30 | 370 | 400 | | | |
| 1980 | January February March April May June July August September October November December AVERAGE | 29 29 29 31 34 39 42 44 41 41 40 | 439 440 448 465 468 496 514 521 523 530 531 540 493 | 468 469 477 496 502 535 556 565 567 571 572 580 530 | | | |
| 1981 | January February March April May | 38 41 40 40 42 | 553 561 570 605 619 | 591 602 610 645 661 | | | |

40

582

612

Line-Miles of Seismic Exploration

| Offshore ¹ | Onshore ¹ | Total |
|-----------------------|----------------------|---------|
| | Annual total | |
| 258,944 | 127,160 | 386,104 |
| 341,784 | 158,629 | 500,413 |
| 309,283 | 150,694 | 459,977 |
| 226,303 | 142,926 | 369,229 |
| 124,676 | 120,072 | 244,748 |
| 174,607 | 135,899 | 310,506 |
| 193,212 | 163,929 | 357,141 |

AVERAGE

Geographic coverage: the 50 United States and District of Columbia.

Monthly data not available.

Sources: • Society of Exploration Geophysicists, "Monthly Seismic Crew Count" and annual reports published in their bulletin, Geophysics.

Coal

Coal production in May 1981 was 37.0 million tons, 47.8 percent below production in May 1980. Weekly coal output increased steadily during June following settlement of the coal strike (June 7, 1981) and had been restored to a near normal level by the end of June. Coal production during the first 5 months of 1981 totaled 290.3 million tons, 15.8 percent less than during the period January through May 1980.

The Energy Information Administration monitored the coal supply situation at electric utilities and coke plants during the strike. The most recent survey showed that coal stocks at electric utility plants on May 16, 1981, totaled 152.6 million tons, down 21.1 million tons from stocks of 173.7 million tons on March 21. During this period, coal stocks at coke plants declined from 9.9 million tons to 5.5 million tons.

Imports of coal in April 1981 totaled 63 thousand tons. Exports of coal in April 1981 totaled 8.3 million tons, 0.7 million tons more than the amount exported during April 1980. Coal exports were principally to Canada (23.7 percent), Japan (17.4 percent), and France (13.3 percent).

Part 6

Coal

Coal Bituminous Coal, Lignite, and Anthracite

| | | Production | Domestic Consumption | Imports ¹ | Exports ² ³ | Stocks ⁴ |
|------|-------------------------|------------------|-------------------------|----------------------|-----------------------------------|---------------------|
| | | | 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 | |
| 1980 | January | 68,276 | 63,521 | 121 | 4,460 | 179,450 |
| | February | 64,678 | 59,678 | 193 | 4,041 | 176,808 |
| | March | 70,326 | 58,851 | 93 | 5,633 | 176,685 |
| | April | 70,381 | 52,635 | 63 | 7,563 | 185,367 |
| | May | 70,899 | 52,834 | 207 | 8,597 | 193,920 |
| | June | 71,850 | 56,098 | 104 | 8,899 | 199,299 |
| | July | 61,225 | 63,122 | 32 | 8,247 | 185,913 |
| | August | 70,665 | 62,752 | 166 | 9,270 | 190,689 |
| | September October | 72,460 76,210 | 57,306 55,774 | 2 | 8,364 | 194,467 |
| | November | 65,930 | 55,774 56,800 | 139 3 | 9,454 | 201,975 |
| | December | 72,500 | 63,362 | 70 | 8,987 8,228 | 204,436 204,028 |
| | | , | • | · - | • | 204,026 |
| | TOTAL | 835,400 | 702,733 | 1,194 | 91,742 | |
| 1981 | January | 66,447 | NA | 35 | 5,795 | NA |
| | February | 70,328 | NA | 104 | 6,771 | NA |
| | March | 77,833 | NA | 77 | 9,710 | NA |
| | April | R38,644 | NA | 63 | 8,271 | NA |
| | May | R37,017 | NA | NA | NA | NA |
| | TOTAL (Year-to-date) | R290,269 | NA | NA | NA | NA |

Geographic coverage: the 50 United States and District of Columbia.

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

See Explanatory Note 10 for methodology used to calculate domestic consumption from 1978 forward.

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

Includes exports of lignite beginning in 1978. Lignite prior to 1978 was combined with lignite briquets. Exports of lignite totaled 22,821 short tons in 1978; 26,389 short tons in 1979; and 65,064 short tons in 1980.

Sexcludes shipments of anthracite to U.S. Armed Forces overseas (340,000 short tons in 1980).

Stocks held by electric utilities, coke plants, and the other Industrial Sector at the end of period. Excludes stocks at retail dealers (which are consumed by the Residential and Commercial Sector).

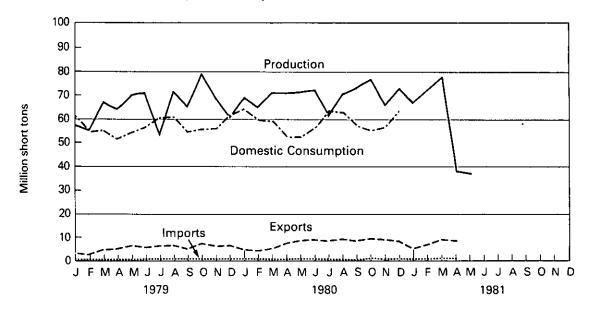
NA = Not available. R = Revised data.

Sources: • See Sources on the last page of this section.

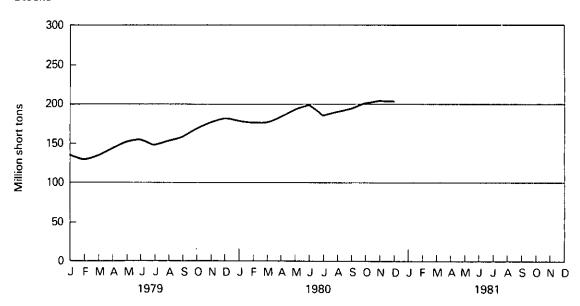
Coal

Bituminous Coal, Lignite, and Anthracite

Production, Consumption, Imports, and Exports



Stocks



Coal Consumption—Bituminous Coal, Lignite, and Anthracite

| | Electric Utilities | Coke Plants ¹ | Other Industrial ² Including Transportation | Residential and Commercial | Total |
|---|-----------------------|-----------------------------|---|----------------------------------|---------|
| | | | Thousand short tons | s | |
| • | 389,212 | 94,101 | 68,154 | 11,117 | 562,584 |
| | 391,811 | 90,191 | 64,983 | 11,417 | 558,402 |
| | 405,962 | 83,598 | 63,670 | 9,410 | 562,641 |
| | 448,371 | 84,704 | 61,799 | 8,916 | 603,790 |

Industrial

| | | • | , ,,,,,, | | | |
|------|---|--|---|---|--|--|
| | | | | Thousand short ton | ıs | |
| 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 | January February March April May June July August September October November December | 50,371 47,512 46,685 40,692 41,464 45,821 53,655 53,214 47,913 45,092 45,698 51,157 | 6,342 6,010 6,428 6,247 6,127 5,326 4,903 4,878 4,794 5,107 5,152 5,346 66,660 | 5,944 5,400 5,199 5,118 4,894 4,675 4,222 4,337 4,170 4,990 5,331 6,067 60,347 | 864 756 539 578 349 276 342 323 429 585 619 792 | 63,521 59,678 58,851 52,635 52,834 56,098 63,122 62,752 57,306 55,774 56,800 63,362 702,733 |
| 1981 | January February March April TOTAL (Year-to-date) | 54,357 47,914 48,398 43,677 1 94,346 | NA NA NA NA | NA NA NA NA | NA NA NA NA | NA NA NA NA NA |

Geographic coverage: the 50 United States and District of Columbia. Totals may not equal sum of components due to independent rounding. ¹Bituminous coal and anthracite only. Lignite is not used at coke plants. ²See Explanatory Note 10.

NA = Not available.

Sources: • See Sources on the last page of this section.

Coal Stocks'-Bituminous Coal, Lignite, and Anthracite

| | | | Indu | Industrial | | | |
|------|---------------------|-----------------------|-----------------------------|---------------------|--------------------|--|--|
| | | Electric Utilities | Coke Plants ² | Other Industrial | Total | | |
| | | | 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 | January | 158,717 | 9,634 | 11,099 | 179,450 | | |
| | February | 157,124 | 9,263 | 10,421 | 176,808 | | |
| | March | 157,625 | 9,317 | 9,743 | 176,685 | | |
| | April | 165,817 | 9,579 | 9,971 | 185,367 | | |
| | May | 174,029 | 9,692 | 10,199 | 193,920 | | |
| | June | 178,959 | 9,913 | 10,427 | 199,299 | | |
| | July | 166,806 | 8,427 | 10,680 10,932 | 185,913 | | |
| | August September | 171,891 175,067 | 7,866 8,213 | 11,187 | 190,689 194,467 | | |
| | October | 182,045 | 8,488 | 11,442 | 201,975 | | |
| | November | 184,133 | 8,606 | 11,697 | 204,436 | | |
| | December | 183,010 | 9.067 | 11,951 | 204,430 | | |
| | 5000001 | . 55,010 | 5,007 | ,00 | 234,020 | | |
| 1981 | January | 176,975 | NA | NA | NA | | |
| | February | 175,715 | NA | NA | NA | | |
| | March | 183,983 | NA | NA | NA | | |
| | April | 168,894 | NA | NA | NA | | |

Geographic coverage: the 50 United States and District of Columbia.

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

¹Stocks held by 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 (which are consumed by the Residential and Commercial Sectors).

NA = Not available.

Sources: • See Sources on the last page of this section.

Sources for the Coal Section

- 1973 through September 1977: Bureau of Mines, *Minerals Yearbook* and *Mineral Industry Surveys*.
 October 1977 forward: Production: Association of American Railroads, Statement CS54A; Commonwealth of Pennsylvania, Department of Environmental Resources, "Anthracite Mines—Monthly Tonnage, Manhour and Accident Report" and "Annual Report on Mining, Oil and Gas, and Land Reclamation and Conservation Activities"; Energy Information Administration (EIA) "Weekly Coal Report," "Bituminous Coal and Lignite Quarterly Distribution Report" (Form EIA-6), "Bituminous Coal and Lignite, Production and Mine Operation—Annual Report" (Form EIA-7), and Bureau of Mines Form 6-1385A, "Pennsylvania Anthracite Production, Mines Without Preparation Plants," BOM Form 6-1387A, "Pennsylvania Anthracite Production, Contractor's Report", BOM Form 6-1388A, "Pennsylvania Anthracite Production, River Coal Report"; and Various States, Annual Coal Mining Reports.
 October 1977 forward: Domestic Consumption and Stocks: EIA, "Monthly Power Plant Report" (FPC Form 4), "Monthly Fuel Consumption Report—Manufacturing Plants" (Form EIA-3), "Coke and Coal Chemicals—Monthly/Annual" (Form EIA-5/5A), "Bituminous Coal and Lignite—Quarterly Distribution Report" (Form EIA-6) and "Monthly Coal Report, Retail Dealers and Upper Lakes Docks" (Form EIA-2).
 October 1977 forward: Imports/Exports: Bureau of the Census, Monthly Reports IM 145 (Imports) and EM 552 (Exports).

April 1981 production of electricity by utilities was 172.4 billion kilowatt-hours, 2.2 percent above the April 1980 production level. Coal-fired production totaled 88.1 billion kilowatt-hours, natural gas-fired production totaled 27.3 billion kilowatt-hours, and nuclear production totaled 20.6 billion kilowatt-hours. These figures reflect increases of 5.4, 12.9, and 9.9 percent, respectively, above the April 1980 output levels. Petroleum-fired production totaled 15.1 billion kilowatt-hours and hydroelectric production totaled 20.7 billion kilowatt-hours, 5.7, and 19.5 percent, respectively, below April 1980 output levels.

Sales of electricity to all ultimate consumers in the United States in April 1981 totaled 160.7 billion kilowatt-hours, a decrease of 5.4 percent from sales of the month before and 0.6 percent below April 1980 sales. Sales to residential consumers during April 1981 were 49.6 billion kilowatt-hours, 4.1 percent below sales for the corresponding month in 1980. Commercial sales were 37.0 billion kilowatt-hours, 1.4

percent more than the amount for April 1980. Sales to industrial consumers totaled 68.1 billion kilowatt-hours in April 1981, about 0.3 percent more than the April 1980 figure. In April 1981 other sales totaled 6.0 billion kilowatt-hours, virtually unchanged from the April 1980 level.

Electric utility petroleum consumption (excluding petroleum coke) during April 1981 was 25.6 million barrels, a 7.1 percent decrease from the April 1980 level. Coal consumption for April 1981 was 43.7 million tons, 7.3 percent above the April 1980 rate. During April 1981, consumption of natural gas by electric utilities was 287.7 billion cubic feet, 12.1 percent above the April 1980 consumption level.

On April 30, 1981, utility stocks of anthracite, bituminous coal, and lignite totaled 168.9 million tons. Stockpiles were 1.9 percent above the levels of April 1980.

Petroleum stocks (excluding petroleum coke) on April 30, 1981, totaled 126.1 million barrels, 8.7 percent below the levels for the same month of 1980.











Net Electricity Production by Primary Energy Source

| | | Coal | Petroleum ² | Natural Gas | Nuclear | Hydro | Other ³ | Total |
|------|---|---|--|--|--|--|--|---|
| | | | | Mil | llion kilowatt-ho | urs | | |
| 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 | January February March April May June July August September | 103,258 98,151 95,386 83,562 84,884 93,692 108,457 107,580 97,557 | 24,986 24,781 20,415 16,025 16,545 18,020 23,289 24,885 17,815 | 26,349 24,755 26,891 24,181 26,587 31,295 39,063 37,647 33,580 | 19,746 19,277 20,039 18,794 18,385 18,322 21,024 24,333 23,572 | 25,278 21,378 24,332 25,748 28,865 27,656 24,469 20,431 18,491 | 388 373 401 410 468 445 475 517 | 200,005 188,715 187,464 168,720 175,734 189,430 216,776 215,393 191,485 |
| | October November December | 91,196 93,501 104,339 1,161,562 | 15,858 19,989 23,386 245,994 | 28,592 24,338 22,961 346,240 | 24,510 20,984 22,130 251,116 | 17,866 19,217 22,290 276,021 | 533 520 506 5,506 | 178,555 178,550 195,613 2,286,439 |
| 1981 | January February March April TOTAL (Year-to-date) | 111,148 97,653 99,482 88,109 396,392 | 25,724 17,444 16,962 15,106 75,236 | 22,081 21,339 25,900 27,309 96,629 | 23,368 21,595 22,004 20,646 87,613 | 22,355 21,134 20,572 20,723 84,784 | 540 483 541 500 2,064 | 205,217 179,648 185,461 172,393 742,719 |

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
*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, wood and waste.
*Source: *Federal Power Commission Form 4, "Monthly Power Plant Report".

Electricity Sales¹

| | | Residential | Commercial | Industrial | Other ² | Total |
|------|---|--|---|---|--|---|
| | | | Millio | n kilowatt-hours | i | |
| 1973 | TOTAL | 579,231 | 388,266 | 686,085 | 59,326 | 1,712,909 |
| 1974 | TOTAL | 578,184 | 384,826 | 684,875 | 58,039 | 1,705,924 |
| 1975 | TOTAL | 584,712 | 401,674 | 675,271 | 68,153 | 1,729,810 |
| 1976 | TOTAL | 602,863 | 423,639 | 739,965 | 69,557 | 1,836,024 |
| 1977 | TOTAL | 641,134 | 444,931 | 772,291 | 70,487 | 1,928,845 |
| 1978 | TOTAL | 671,094 | 459,908 | 800,656 | 73,152 | 2,004,814 |
| 1979 | TOTAL | 682,819 | 473,307 | 841,903 | 73,070 | 2,071,101 |
| 1980 | January February March April May June July August September October November December | 65,841 64,514 60,497 51,749 45,699 52,267 68,611 74,893 67,969 54,012 50,539 60,775 717,366 | 39,578 39,528 38,762 R36,453 36,110 40,129 45,525 47,679 46,028 40,478 37,954 39,846 R488,070 | 67,532 68,508 69,086 R67,908 67,235 66,739 65,531 67,377 69,570 69,414 67,613 68,517 | 6,634 6,171 6,028 R5,591 5,807 5,737 6,215 6,255 6,572 6,174 6,068 6,469 73,721 | 179,585 178,720 174,373 R161,702 154,851 164,872 185,882 196,205 190,139 170,078 162,174 175,607 |
| 1981 | January February March April TOTAL (Year-to-date) | 72,240 R64,588 56,238 49,624 242,690 | 42,120 40,244 38,586 36,975 157,925 | 67,087 67,394 68,599 68,136 271,216 | 6,830 6,387 6,366 5,593 25,536 | 188,277 178,613 169,789 160,688 697,36 7 |

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
'Electricity sales to all ultimate consumers.
'Ancludes street lighting and transportation uses.
R = Revised data.

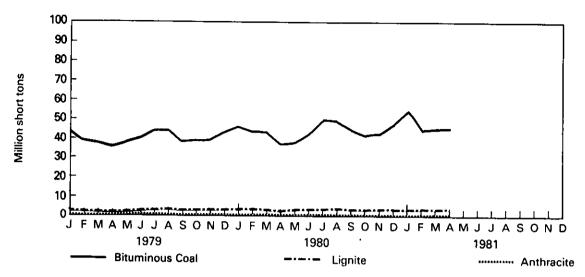
Source: •1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: Federal Energy Regulatory Commission Form 5, "Electric Utility Company Monthly Statement."

Electric UtilitiesPrimary Energy Consumed to Produce Electricity

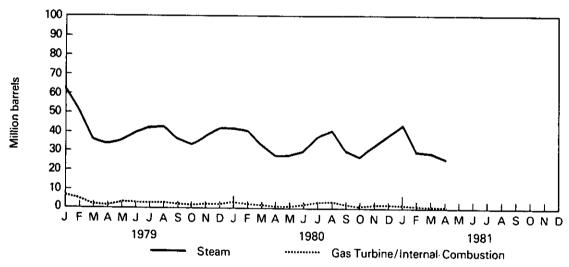
| | | Coal | | | Petroleum | | | | Natural Gas | |
|------|-------------------------|------------|--------------------|----------|-----------|---------|--------------------------|------------------|---------------------|-----------------------|
| | | Anthracite | Bituminous Coal | Lignite | Total | Steam | Gas Turb./ Int. Comb. | Total Liquids | Petroleum Coke | |
| | | | Thousand sh | ort tons | | Th | nousand barre | ls | Thousand short tons | Million cubic feet |
| 1973 | TOTAL | 1,443 | 376,975 | 10,794 | 389,212 | 513,190 | 47,058 | 560,248 | 507 | 3,660,172 |
| 1974 | TOTAL | 1,498 | 378,643 | 11,670 | 391,811 | 483,146 | 53,128 | 536,274 | 625 | 3,443,428 |
| 1975 | TOTAL | 1,480 | 388,523 | 15,960 | 405,962 | 467,221 | 38,907 | 506,128 | 70 | 3,157,669 |
| 1976 | TOTAL | 1,350 | 425,205 | 21,817 | 448,371 | 514,077 | 41,843 | 555,920 | 68 | 3,080,868 |
| 1977 | TOTAL | 1,425 | 451,051 | 24,650 | 477,126 | 574,869 | 48,837 | 623,706 | 98 | 3,191,200 |
| 1978 | TOTAL | 1,064 | 448,763 | 31,407 | 481,235 | 588,319 | 47,520 | 635,839 | 398 | 3,188,363 |
| 1979 | TOTAL | 1,046 | 488,129 | 37,876 | 527,051 | 492,606 | 30,691 | 523,297 | 268 | 3,490,523 |
| 1980 | January | 74 | 46,518 | 3.779 | 50.371 | 40.695 | 2,197 | 42,892 | 54 | 276,743 |
| 1900 | February | 72 | 43,969 | 3,471 | 47.512 | 40,231 | 1,919 | 42,150 | 21 | 263,771 |
| | March | 83 | 43,244 | 3,357 | 46,685 | 33,406 | 1,379 | 34,785 | 13 | 283,945 |
| | April | 71 | 37,971 | 2,651 | 40,692 | 26,867 | 673 | 27,540 | | 256,606 |
| | May | 86 | 38,116 | 3,262 | 41,464 | 26,991 | 840 | 27,831 | 11 | 281,886 |
| | June | 89 | 42,073 | 3,658 | 45,821 | 29,551 | 1,138 | 30,689 | 11 | 336,894 |
| | July | 93 | 49,815 | 3,746 | 53,655 | 37,297 | 2,791 | 40,088 | 11 | 420,339 |
| | August | 80 | 49,077 | 4,057 | 53,214 | 40,019 | 2,833 | 42,852 | 15 | 405,343 |
| | September | 84 | 44,487 | 3,342 | 47,913 | 29,367 | 1,286 | 30,653 | | 357,286 |
| | October | 73 | 41,819 | 3,200 | 45,092 | 26,269 | 689 | 26,958 | | 301,266 |
| | November | 56 | 42,379 | 3,263 | 45,698 | 32,782 | 1,320 | 34,102 | | 255,559 |
| | December | 89 | 47,212 | 3,856 | 51,157 | 38,387 | 1,285 | 39,672 | | 241,957 |
| | TOTAL | 951 | 526,680 | 41,642 | 569,274 | 401,863 | 18,351 | 420,214 | 179 | 3,681,595 |
| 1981 | January | 81 | 50,304 | 3,972 | 54,357 | 41,556 | 2,027 | 43,583 | 10 | 231,606 |
| 1301 | February | 58 | 44,583 | 3,272 | 47,914 | 28,948 | 1,049 | 29,997 | | 224,003 |
| | March | 75 | 45,168 | 3,155 | 48,398 | 28,492 | 784 | 29,276 | | 272,348 |
| | April | 73 | 40,535 | 3,069 | 43,677 | 25,028 | 557 | 25,585 | 7 | 287,679 |
| | TOTAL (Year-to-date) | 288 | 180,590 | 13,468 | 194,345 | 124,025 | 4,417 | 128,442 | 35 | 1,015,636 |

Geographic coverage: the 50 United States and District of Columbia. Totals may not equal sum of components due to independent rounding. *Source:* •Federal Power Commission, Form 4, "Monthly Powerplant Report."

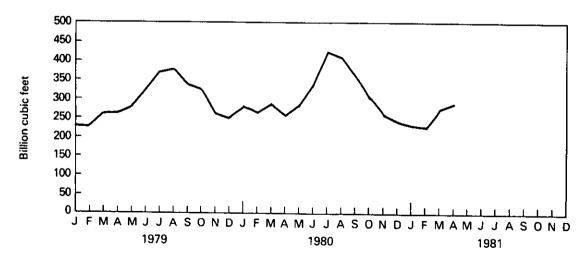
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



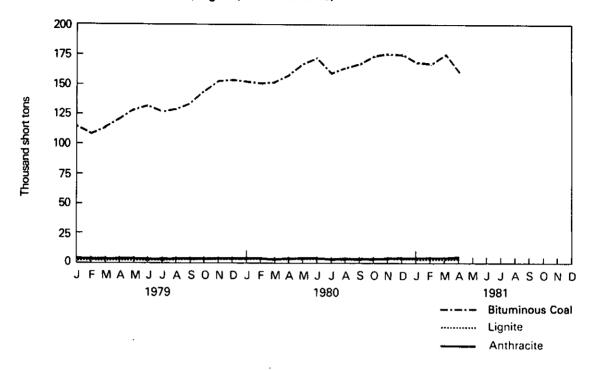
End-of-Month Coal and Petroleum Stocks

| | | Coal | | | | Petroleum | | | |
|------|-----------|-----------------|--------------------|----------------|------------------|-------------------|--------------------------|------------------|---------------------|
| | | Anthracite | Bituminous Coal | Lignite | Total | Steam | Gas Turb./ Int. Comb. | Total Liquids | Petroleum Coke |
| | | | Thousand sh | ort tons | | Ti | nousand barrel | s | Thousand short tons |
| 1973 | | ‡1,066 | ‡ 84,94 1 | ‡961 | ‡86,967 | ‡ 79,121 | ‡10,095 | ‡89,216 | ‡312 |
| 1974 | | ‡930 | ‡81,712 | ‡867 | ‡83,509 | ‡ 97,718 | ‡15,199 | ‡112,917 | ‡35 |
| 1975 | | ‡ 982 | ‡10 7,92 7 | ‡1,815 | ‡110,724 | ‡108,8 2 5 | ‡16,432 | ‡125,257 | ‡31 |
| 1976 | | ‡1 ,00 0 | ‡114,130 | ‡2,306 | ‡117,436 | ‡106,993 | ‡14,703 | ‡121,69 6 | ‡32 |
| 1977 | | ‡ 2,321 | ‡128,210 | ‡ 2,688 | ‡133 ,219 | ‡1 24, 750 | ‡19,281 | ‡144,031 | ‡44 |
| 1978 | | ‡2,178 | ‡123,0 20 | ‡3,027 | ‡128,225 | ‡102,40 2 | ‡16,386 | ‡118,788 | ‡198 |
| 1979 | | ‡3,274 | ‡152,981 | ‡3,459 | ‡159,714 | ‡111,1 2 1 | ‡20,301 | ‡131,422 | ‡183 |
| 1980 | January | 3,371 | 151,891 | 3,455 | 158,717 | 114,313 | 19,597 | 133,909 | 175 |
| | February | 3,451 | 150,151 | 3,522 | 157,124 | 1 11,353 | 19,055 | 130,409 | 168 |
| | March | 3,488 | 151,022 | 3,116 | 157,625 | 116,246 | 18,934 | 135,180 | 154 |
| | April | 3,533 | 158,441 | 3,843 | 165,817 | 118,824 | 19,201 | 138,025 | 103 |
| | May | 3,725 | 166,325 | 3,980 | 174,029 | 123,043 | 19,485 | 142,529 | 69 |
| | June | 3,838 | 171,042 | 4,079 | 178,959 | 124,177 | 19,273 | 143,450 | 65 65 |
| | July | 3,955 | 161,159 | 3,691 | 168,806 | 121,596 | 18,680 | 140,276 | 65 |
| | August | 4,098 | 163,756 | 4,036 | 171,891 | 118,514 | 18,150 | 136,664 | 63 |
| | September | 4,291 | 166,515 | 4,262 | 175,067 | 122,240 | 18,064 | 140,304 | 61 60 |
| | October | 4,481 | 173,411 | 4,153 | 182,045 | 124,046 | 18,398 | 142,445 | 53 |
| | November | 4,661 | 175,489 | 3,983 | 184,133 | 119,863 | 18,051 | 137,915 | 53 52 |
| | December | 4,741 | 174,154 | 4,115 | 183,010 | 117,227 | 18,147 | 135,374 | 52 |
| 1981 | January | 4,824 | 167,884 | 4,267 | 176,975 | 109,915 | 18,280 | 128,195 | 51 50 |
| | February | 4,859 | 166,552 | 4,304 | 175,715 | 112,439 | 17,397 | 129,836 | 52 52 |
| | March | 4,951 | 174,554 | 4,478 | 183,983 | 111,105 | 17,502 | 128,607 | 52 52 |
| | April | 5,035 | 159,318 | 4,541 | 168,894 | 108,848 | 17,205 | 126,053 | 52 |

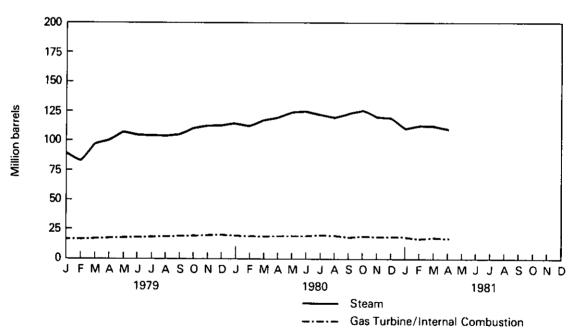
Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
‡Total as of December 31.
Source: •Federal Power Commission, Form 4, "Monthly Powerplant Report."

Electric Utilities

Coal Stocks (Bituminous Coal, Lignite, and Anthracite)



Petroleum Stocks



Nuclear

During April 1981, operating domestic power reactors generated a total of 20.6 billion net kilowatt-hours of electricity, 6.2 percent below March 1981 output but 9.9 percent above the comparable output for April 1980.

Nuclear power accounted for 12.0 percent of U.S. electricity generation, a ratio virtually unchanged since February. Nuclear power accounted for about 37 percent more electricity generation than petroleum during April 1981.

No major domestic reactor status changes occurred during April 1981. Two units (Three Mile Island-2 and Dresden-1) remain in indefinite suspension. Fifteen other units (Arkansas I-2, Duane Arnold, Cook-2, Dresden-2, Hatch-1, Indian Point-2, Millstone-1, Nine-Mile Point-1, Peach Bottom-3, Ranch Seco, Salem-1, San Onofre, Surry-1, Three Mile Island-1 and Turkey Point) generated no electricity, or operated substantially below capacity in April. Two units (Salem-2 and McGuire-1) were in fuel-loading or low-power testing in April, while Farley-2 and Sequoyah-1 were in power ascension.

Part 8

Nuclear

Nuclear Nuclear Powerplant Operations

| | | Reactors Licensed For Commercial Operation ¹ | Nuclear-Based Electricity Generation ² | Nuclear Portion of Domestic Electricity Generation | Maximum Dependable Capacity³ | Capacity Factor |
|------|-----------|--|---|--|------------------------------------|--------------------|
| | | | Million net kilowatt-hours | Percent | Million net kilowatts | Percent |
| 1973 | AVERAGE | 40 | 83,479 | 4.5 | 13.850 | 63.2 |
| 1974 | AVERAGE | 53 | 113,976 | 6.1 | 29.921 | 43.5 |
| 1975 | AVERAGE | 56 | 172,505 | 9.0 | 35.671 | 55.2 |
| 1976 | AVERAGE | 62 | 191,104 | 9.4 | 40.642 | 53.5 |
| 1977 | AVERAGE | 67 | 250,883 | 11.8 | 45.554 | 62.9 |
| 1978 | AVERAGE | 71 | 276,403 | 12.5 | 49.385 | 63.9 |
| 1979 | AVERAGE | 71 | 255,155 | 11.4 | 50.604 | 57.6 |
| 1980 | January | 71 | 19,746 | 9.9 | 49.945 | 53.1 |
| | February | 72 | 19,277 | 10.2 | 51.055 | 54.3 |
| | March | 72 | 20,039 | 10.7 | 51.031 | 52.8 |
| | April | 74 | 18,794 | 11.1 | 53.040 | 49.3 |
| | May | 74 | 18,385 | 10.5 | 53.040 | 46.6 |
| | June | 74 | 18,322 | 9.7 | 53.040 | 48.0 |
| | July | 74 | 21,024 | 9.7 | 54.064 | 52.3 |
| | August | 74 | 24,333 | 11.3 | 53.957 | 60.6 |
| | September | 74 | 23,572 | 12.3 | 53.855 | 60.8 |
| | October | 75 | 24,510 | 13.7 | 54.724 | 60.1 |
| | November | 75 | 20,984 | 11.8 | 54.737 | 53.2 |
| | December | 75 | 22,130 | 11.3 | 54.749 | 54.3 |
| | AVERAGE | 74 | 251,116 | 11.0 | 53.103 | 53.8 |
| 1981 | January | 75 | 23,368 | 11.4 | 55.853 | 56.2 |
| 1301 | February | 75 | 21,595 | 12.0 | 55.830 | 57.6 |
| | March | 75 | 22,004 | 11.9 | 55.818 | 53.0 |
| | April | 75 | 20,646 | 12.0 | 55.817 | 51.4 |
| | AVERAGE | 75 | 87,614 | 11.8 | 55.830 | 54.6 |
| | | | | | | |

Nuclear

Geographic coverage: the 50 United States and District of Columbia.

'See next table (Reactor Status Table) for explanation and sources.

'Electricity generation entries represent yearly or monthly totals rather than averages.

'See Explanatory Note 11.

'Average percentage of Maximum Dependable Capacity utilized yearly or monthly.

Sources: Capacity data for units in commercial operation or start-up testing—Nuclear Regulatory Commission Report NUREG 0020,

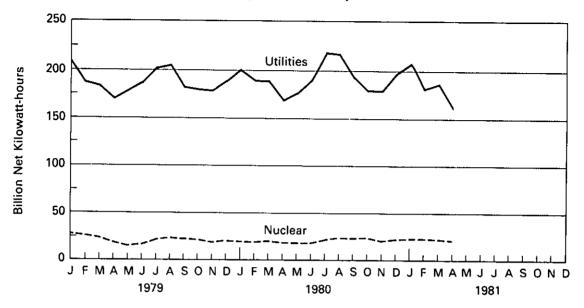
'Operating Units Status Report.'

Generation Data—Federal Power Commission Form 4, 'Monthly Power Plant Report.'

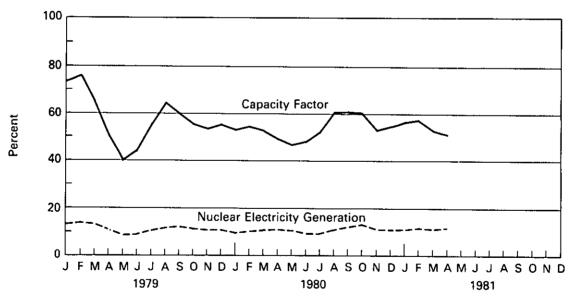
Nuclear

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.

Nuclear

Status of Nuclear Reactor Units1

| | | Reactors Licensed For Commercial Operations ² | Construction Permits Granted | Construction Permits Pending ³ | Reactor Units on Order | Reactor Units Announced | Total Reactor Units | Total Design Capacity (Million Net ⁴ Kilowatts) |
|------|-----------|---|------------------------------------|---|------------------------------|-------------------------------|---------------------------|---|
| 1973 | | 40 | 51 | 58 | 48 | 20 | 217 | 212 |
| 1974 | | 53 | 58 | 80 | 28 | 16 | 235 | 234 |
| 1975 | | 56 | 69 | 73 | 19 | 19 | 236 | 236 |
| 1976 | | 62 | 72 | 66 | 16 | 19 | 235 | 236 |
| 1977 | | 67 | 80 | 52 | 13 | 9 | 221 | 220 |
| 1978 | | 71 | 90 | 32 | 9 | 4 | 206 | 204 |
| 1979 | | 71 | 91 | 21 | 3 | 0 | 186 | 180 |
| 1980 | January | 71 | 90 | 17 | 3 | 0 | 181 | 174 |
| | February | 72 | 89 | 16 | 3 | 0 | 180 | 173 |
| | March | 72 | 87 | 14 | 3 | 0 | 176 | 169 |
| | April | 74 | 85 | 14 | 3 | 0 | 176 | 169 |
| | May | 74 | 85 | 14 | 3 | 0 | 176 | 169 |
| | June | 74 | 85 | 14 | 3 | 0 | 176 | 169 |
| | July | 74 | 85 | 14 | 3 | 0 | 176 | 169 |
| | August | 74 | 85 | 14 | 3 | 0 | 176 | 169 |
| | September | 74 | 85 | 14 | 3 | 0 | 176 | 169 |
| | October | 75 | 84 | 14 | 3 3 | 0 | 176 | 169 |
| | November | 75 | 82 | 14 | 3 | 0 | 174 | 167 |
| | December | 75 | 82 | 12 | 3 | 0 | 172 | 164 |
| 1981 | January | 75 | 81 | 12 | 3 | 0 | 171 | 164 |
| 1301 | February | 75 | 81 | 12 | 3 | 0 | 171 | 164 |
| | March | 75 | 81 | 12 | 3 | 0 | 171 | 164 |
| | April | 75 | 81 | 12 | 3 | 0 | 171 | 164 |

Geographic coverage: the 50 United States and District of Columbia.

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.

These figures include reactors in fuel-loading, power-testing, and power-ascension phases as well as reactors that have been licensed but which are shut down for indefinite periods, including: Dresden-1, which is undergoing major modifications and Three Mile Island-2 (TMI-2), shut down due to an accident in March 1979. Although its operating license has not been revoked, authority to operate the damaged TMI-2 reactor unit was suspended by the NRC in July 1979. Also includes two Department of Energy, dual-purpose reactors (Shippingport and

reactor unit was suspended by the NRC in July 1979. Also includes two Department of Energy, dual-purpose reactors (Shippingport and Hanford) which are licensed to generate electricity on a commercial basis.

3Although New Haven-1, -2 and Jamesport-1, -2 still remain on the NRC docket as reactor units for which construction permits are pending, these 4 units were dropped from the above table (in November 1979 and March 1980, respectively) because applications for their construction were rejected by New York State. Although Duke Power Co. has announced an "indefinite delay" of two Cherokee units (now carried as reactors for which "Construction Permits (are) Granted," these units will be retained, as is, in the above Table until such time as a firm change in their status occurs.

See Explanatory Note 11. Sources: • Compiled by the Energy Information Administration from various sources, but primarily from the Nuclear Regulatory Commission (NRC), Report NUREG 0380, "Program Summary Report."

Price

Crude Oil

The average price of domestic crude oil purchased at the wellhead was \$34.14 per barrel in February 1981. This was 18.3 percent above the previous month's level, and 81.5 percent above the level in February 1980. Due to the January 1981 decontrol order, prices will no longer be available by regulatory price category.

During March 1981, the composite refiner acquisition cost of crude oil was \$37.48 per barrel, \$0.12 per barrel (0.3 percent) above the previous month's price of \$37.36. The imported price decreased \$0.69 per barrel from the February 1981 level to \$38.35 per barrel in March. This price was 1.8 percent below the previous month's level and 14.8 percent above the March 1980 level. The domestic price was \$36.95, an increase of \$0.55 per barrel (1.5 percent) above the February average.

Residual Fuel Oil

The average price, excluding taxes, for No. 6 residual fuel oil sold to utilities, industry, and other ultimate consumers in March 1981 was \$36.11 per barrel, \$0.07 above the previous month's price (0.2 percent) and 42.6 percent over the March 1980 average. The average price, excluding taxes, for No. 6 residual fuel oil sold to resellers, bulk plants, jobbers, and other wholesale accounts was \$32.71 per barrel, \$.90 above (2.8 percent) the February 1981 average and a 55.0 percent increase over the March 1980 average.

Heating Oil

The national average price of heating oil sold to residential customers decreased 1.4 cents from the March 1981 level to 124.1 cents per gallon in April. This was a 1.1 percent decrease below the selling price in

March 1981 but a 27.4 percent increase over the April 1980 price. The average residential distributor margin in April was 14.5 cents per gallon, 14.7 percent below the margin of April 1980. Refiners' national average selling price to resellers and retailers was 99.9 cents per gallon, 26.8 percent above the April 1980 average.

Aviation Fuel

The average price, excluding taxes, for kerosene-type jet fuel sold to commercial airlines, Department of Defense, and other ultimate consumers in March 1981 was 106.3 cents per gallon, or 4.7 cents (4.6 percent) above the previous month's average and a 23.2 percent increase over the March 1980 average.

Motor Gasoline

The national average retail price for all grades and all types of motor gasoline was 137.0 cents per gallon in May 1981. Leaded regular gasoline at all types of stations sold for an average of 133.3 cents per gallon in May, 1.1 cents lower (0.8 percent) than the price in April. The price for unleaded regular gasoline at all types of stations was 140.0 cents per gallon in May, 1.2 cents lower (0.9 percent) than the price in April.

Liquefied Petroleum Gases

The average wholesale price for propane during March 1981, excluding taxes, was 48.3 cents per gallon, a 0.2 percent increase from the previous month's level, and 17.8 percent above the March 1980 level.

In March 1981, the average wholesale price for butane, excluding taxes, was 62.1 cents per gallon, 1.4 percent below the previous month's price and 7.0 percent below the March 1980 average.







Price Petroleum Price Summary

| | | Actual Domestic Average | Refiner A | equisition Cost o | f Crude Oil ² | No. 6 Residual Oil Price Average ³ | | |
|------|-----------|-------------------------------|--------------------|-------------------|--------------------------|--|---------|--|
| | | Wellhead Price | Domestic | Imported | Composite | Wholesale ⁴ | Retail* | |
| | | | | Dollars per b | 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 | 11.96 | 13.23 | |
| 1978 | AVERAGE | 9.00 | 10.61 | 14.57 | 12.46 | 11.51 | 12.75 | |
| 1979 | AVERAGE | 12.64 | 14.27 | 21.67 | 17.72 | 17.66 | 18.67 | |
| 1980 | January | 17.86 | 19.78 | 30.75 | 24.81 | 24.41 | 26.21 | |
| | February | 18.81 | 21.22 | 32.40 | 26.11 | 23.34 | 26.48 | |
| | March | 19.34 | 22.07 | 33.42 | 26.88 | 21.11 | 25.33 | |
| | April | 20.29 | 22.89 | 33.54 | 27.09 | 19.09 | 22.87 | |
| | May | 21.01 | 23.63 | 34.33 | 27.85 | 20.22 | 23.75 | |
| | June | 21.53 | 24.48 | 34.48 | 28.80 | 20.44 | 24.09 | |
| | July | 22.26 | 25.05 | 34.51 | 28.73 | 21.28 | 23.86 | |
| | August | 22.63 | 24.98 | 34.44 | 28.70 | 22.25 | 25.00 | |
| | September | 22.59 | 25.37 | 34.46 | 28.96 | 22.47 | 25.31 | |
| | October | 23.23 | 26.21 | 34.63 | 29.56 | 24.06 | 26.68 | |
| | November | 23.92 | 26.51 | 35.09 | 29.79 | 28.12 | 30.10 | |
| | December | 25.80 | 28.55 | 35.63 | 31.39 | 29.76 | 32.33 | |
| | AVERAGE | 21.19 | 24.23 | 33.89 | 28.07 | 23.14 | 26.09 | |
| 1981 | January | 28.85 | R32.71 | R38.85 | R34.86 | 31.14 | 33.65 | |
| | February | 34.14 | †36.40 | †39.04 | †37.36 | R31.81 | R36.04 | |
| | March | NA | † 36.95 | †38.35 | †37.48 | †32.71 | †36.11 | |
| | April | NA | NA NA | NA NA | NA | NA | NA | |
| | May | NA | NA | NA | NA | NA | NA | |
| | AVERAGE | NA | NA | NA | NA | NA | NA | |

Geographic coverage: Actual domestic average wellhead prices and No. 6 residual oil prices— the 50 United States and District of Columbia. Refiner acquisition cost of crude oil— the 50 United States, District of Columbia, Puerto Rico, Guam, and the Virgin Islands.

[&]quot;See Explanatory Note 12.

"See Explanatory Note 13.

"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.

^{*}Excludes tax.

*Excludes tax.

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

*Sources: *Actual domestic average, January 1976: FEA Form 90, "Crude Petroleum Production Monthly Report." February 1976 forward:

ERA Form 182, "Domestic Crude Oil First Purchase Report."

*Refiner acquisition cost, January 1976: Form FEO 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: Form EIA-14, "Refiners' Monthly Cost Report."

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

Price Petroleum Price Summary (continued)

| | | No. 2 Die Aver | | No. 2 Heatir Aver | • | Gasoline Price Average All Grades ² | Propane Price Average ^s | Butane Price Average³ |
|------|-----------|-------------------|---------------------|----------------------|-----------------|---|--|-----------------------------|
| | | Wholesale* | Retall ⁴ | Wholesale | Retail | Retail | Wholesale ⁴ | 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 | January | 76.0 | 82.2 | 75.2 | 90.8 | 111.0 | 41.8 | 73.3 |
| | February | 78.3 | 85.0 | 79.0 | 95.3 | 118.6 | 42.7 | 70.1 |
| | March | 79.8 | 87.8 | 80.4 | 97.1 | 123.0 | 41.0 | 66.8 |
| | April | 80.4 | 88.0 | 81.0 | 97.4 | 124.2 | 41.2 | 63.1 |
| | May | 80.5 | 87.8 | 81.4 | 97.2 | 124.4 | 41.7 | 63.7 |
| | June | 81.7 | 88.6 | 82.5 | 97.9 | 124.6 | 41.2 | 58.2 |
| | July | 81.9 | 87.6 | 83.0 | 97.9 | 124.7 | 40.8 | 53.8 |
| | August | 81.6 | 86.9 | 82.9 | 97.9 | 124.3 | 40.6 | 53.1 |
| | September | 80.3 | 86.6 | 83.0 | 98.1 | 123.1 | 41.4 | 51.2 |
| | October | 81.5 | 85.9 | 83.7 | 98.7 | 122.3 | 43.2 | 54.3 |
| | November | 83.6 | 88.9 | 86.1 | 101.1 | 122.2 | 45.1 | 65.5 |
| | December | 87.5 | 92.4 | 91.3 | 106.5 | 123.1 | 46.5 | 72.7 |
| | 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 | R106.1 | 106.0 | 123.4 | 135.3 | R48.2 | 63.0 |
| | March | †102.2 | †108.7 | 106.3 | 125.5 | 138.8 | †48.3 | † 62.1 |
| | April | NA | NA | 108.2 | 124.1 | 138.1 | NA | NA |
| | May | NA | NA | NA | NA | 137.0 | NA | NA |
| | *** | NA | NA | NA | NA | NA | NA | NA |

Geographic coverage: the 50 United States and District of Columbia.

Note: The average year-to-date gasoline price for the current year is not yet available from the Bureau of Labor Statistics.

Wholesale refers to the price of diesel fuel sold to other refiners and resellers, including branded jobbers, unbranded jobbers, and commercial accounts. Retail refers to the price at which company-owned and operated retail dealers self to customers.

commercial accounts. Retail refers to the price at which company-owned and operated retail dealers sell to customers.

*See Explanatory Note 16.

*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.

*Excludes tax.

†Preliminary data. R=Revised data. NA=Not **vailable.

*Sources: *No. 2 diesel price, FEA Form P302-. 1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

*No. 2 heating oil price, FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" for 1976 through October 1980.

*EIA-9A "No. 2 Distillate Price Monitoring Report" for November 1980 forward.

*Gasoline price, Bureau of Labor Statistics.

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

Price FOB Cost of Crude Oil Imports from Selected Countries¹

| | | Algeria | Indonesia | tran | Libya | Mexico | Nigeria | Saudi Arabia | United Arab Emirates | United Kingdom | Venezuela |
|------|-----------|---------|-----------|-------|---------|---------|------------|-----------------|----------------------------|-------------------|-----------|
| | | | | | | Dollars | per barret | | | | |
| 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 | January | 33.67 | 29.67 | 29.28 | 35.72 | 29.43 | 31.57 | 26.25 | 29.85 | 30.77 | 25.34 |
| | February | 34.03 | 31.11 | NA | 35.71 | 31.77 | 33.39 | 26.62 | 30.95 | 32.66 | 24.82 |
| | March | 36.74 | 31.54 | NA | 35.88 | 30.56 | 35.59 | 26.85 | 29.34 | 34.34 | 24.03 |
| | April | 36.93 | 32.22 | NA | 35.30 | 30.24 | 36.11 | 27.78 | 30.38 | 34.15 | 23.85 |
| | Мау | 37.10 | 32.40 | NA | 36.13 | 30.68 | 36.50 | 28.50 | 32.67 | 34.10 | 24.82 |
| | June | 37.61 | 32.90 | NA | 36.83 | 30.76 | 36.99 | 28.95 | 33.34 | 36.28 | 25.56 |
| | July | 38.40 | 33.19 | NA | 37.26 | 31.84 | 37.17 | 28.47 | NA | 36.26 | 24.34 |
| | August | 37.53 | 33.01 | NA | . 37.01 | 31.87 | 36.69 | 29.74 | NA | 34.83 | 25.30 |
| | September | 37.21 | 33.13 | NA | 36.94 | 31.21 | 36.38 | 30.34 | NA | 35.18 | 24.21 |
| | October | 37.60 | 32.31 | NA | 37.15 | 31.27 | 36.82 | 30.19 | NA | 35.66 | 22.71 |
| | November | 37.05 | 32.94 | NA | 36.90 | 31.59 | 36.87 | 31.43 | NA | 35.47 | 26.83 |
| | December | 37.37 | 33.21 | NA | 37.58 | 32.33 | 36.79 | 32.01 | NA | 35.00 | 26.66 |
| | AVERAGE | 36.57 | 32.37 | NA | 36.41 | 31.11 | 35.82 | 28.53 | NA | 34.58 | 24.78 |
| 1981 | January | 39.37 | 36.54 | NA | 40.52 | 35.88 | 40.11 | 32.39 | NA | 38.34 | 32.87 |
| | February | 40.13 | 36.13 | NA | 40.73 | 36.57 | 40.03 | 32.60 | NA | 39.41 | 30.36 |
| | March | 40.30 | R36.40 | NA | R40.25 | R35.60 | R39.85 | R32.73 | NA | 39.50 | 31.24 |
| | April† | 39.67 | 36.14 | NA | 40.02 | 33.81 | 39.97 | 32.34 | NA | 38.85 | 29.42 |

Note: Prices shown for 1980 are for the month of loading; whereas prior to 1980 the prices are for the month of reporting.
'The FOB cost excludes all costs related to insurance and transportation. See Explanatory Note 14.

NA = Not available.
†Preliminary data. R = Revised data.
**Sources: 1976 through January 1979: FEA Form 701-M-0, "Transfer Pricing Report."

• February 1979 forward: Economic Regulatory Administration Form 51, "Transfer Pricing Report."

Price Landed Cost of Crude Oil Imports from Selected Countries¹

| 10.15 | | Algeria | Canada | Indonesia | Iran | Libya | Mexico | Nigeria | Saudi Arabia | United Arab Emirates | United Kingdom | Venezuela |
|-------|-----------|---------|--------|-----------|-------|--------|-----------|-----------|-----------------|----------------------------|-------------------|-----------|
| | | | | | | | Dollars p | 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 | January | 35.32 | 27.73 | 31.03 | 30.37 | 37.10 | 30.18 | 33.03 | 27.85 | 32.35 | 32.14 | 26.25 |
| | February | 35.28 | 28.60 | 32.95 | NA | 36.98 | 32.38 | 35.25 | 28.15 | 32.71 | 34.07 | 25.91 |
| | March | 38.54 | 30.75 | 33.04 | NA | 37.18 | 31.17 | 36.93 | 28.26 | 30.96 | 35.73 | 24.97 |
| | April | 38.52 | 30.31 | 33.81 | NA | 36.57 | 30.77 | 37.41 | 29.14 | 32.29 | 35.34 | 25.10 |
| | May | 38.54 | 31.16 | 33.73 | NA | 37.36 | 31.22 | 37.53 | 30.30 | 34.06 | 35.82 | 25.93 |
| | June | 38.71 | 31.26 | 34.51 | NA | 38.09 | 31.43 | 38.15 | 30.16 | 34.96 | 37.41 | 26.42 |
| | July | 39.60 | 31.31 | 34.81 | NA | 38.39 | 32.60 | 38.23 | 30.04 | NA | 37.25 | 25.47 |
| | August | 38.60 | 31.44 | 34.81 | NA | 38.38 | 32.62 | 37.77 | 31.24 | NA | 36.20 | 26.37 |
| | September | 38.28 | 30.97 | 34.64 | NA | 38.30 | 31.93 | 37.60 | 31.86 | NA | 36.35 | 25.47 |
| | October | 38.77 | 29.22 | 33.65 | NA | 38.53 | 31.96 | 37.75 | 31.73 | NA | 36.82 | 23.92 |
| | November | 38.41 | 28.81 | 34.55 | NA | 38.22 | 32.42 | 37.97 | 32.86 | NA | 36.62 | 27.75 |
| | December | 38.63 | 32.72 | 34.64 | NA | 39.04 | 33.76 | 38.11 | 33.40 | NA | 36.31 | 27.66 |
| | AVERAGE | 37.90 | 30.47 | 33.92 | NA | 37.72 | 31.80 | 37.05 | 30.02 | NA | 35.88 | 25.86 |
| 1981 | January | 41.25 | 34.26 | 38.08 | NA | 41.81 | 36.81 | 41.55 | 34.06 | NA | 39.90 | 33.80 |
| | February | 41.90 | 33.73 | 37.86 | NA | 42.19 | 37.23 | 41.46 | 34.38 | NA | 40.69 | 31.20 |
| | March | 41.62 | 33.88 | R38.11 | NA | R41.60 | R36.42 | R40.98 | R34.42 | NA | 40.72 | 32.09 |
| | April† | 40.95 | 33.74 | 37.76 | NA | 41.57 | 34.42 | 41.12 | 34.09 | NA | 40.02 | 30.52 |

Note: Prices shown for 1980 are for the month of loading; whereas prior to 1980 prices are for the month of reporting.

**See Explanatory Note 15.

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

**Sources: * 1975 through January 1979: FEA Form F701-M-0, "Transfer Pricing Report." Data provided by the Economic Regulatory Administration.

**February 1979 forward: ERA 51, "Transfer Pricing Report."

Price
U.S. City Average Retail Prices for Motor Gasoline¹

| | | Leaded Regular | Unleaded Regular | Leaded Premium | Average for All Grades |
|------|---|--|--|--|--|
| | | | Cents per gallo | n, 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 | January February March April May June July August September October November December | 108.6 115.9 120.2 121.2 121.5 121.7 121.6 121.0 119.7 118.8 118.8 119.7 | 113.1 120.7 125.2 126.4 126.6 126.9 127.1 126.7 125.7 125.0 125.0 125.8 | 114.9 123.3 127.7 129.2 129.5 130.0 130.7 131.0 130.4 130.1 129.9 131.0 | 111.0 118.6 123.0 124.2 124.4 124.6 124.7 124.3 123.1 122.3 122.2 123.1 |
| 1981 | January February March April May | 123.8 132.1 135.2 134.4 133.3 | 129.8 138.2 141.7 141.2 140.0 | 133.8 141.0 144.9 145.1 144.7 | 126.9 135.3 138.8 138.1 137.0 |

Price Aviation Fuel

| | | Aviation G | asoline | Naphtha-Type [,] | Kerosene | -Туре |
|------|---|--|--|--|--|---|
| | | Wholesale ² | Retail | Retail ² | Wholesale ² | Retall ² |
| | | | Cent | s per gallon, excludir | 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 | January February March April May June July August September October November December AVERAGE | 90.6 98.5 102.9 104.8 106.2 107.7 109.3 110.2 110.8 110.8 112.4 115.1 | 90.0 97.8 107.0 109.6 109.7 111.4 113.4 112.9 113.3 113.0 117.2 109.4 | 76.0 80.1 84.1 83.2 89.1 90.0 91.4 90.6 92.9 91.1 92.5 94.1 | 83.4 86.2 86.6 88.4 89.0 86.1 88.3 86.2 86.4 87.6 89.9 91.4 | 77.0 83.0 86.3 87.4 87.6 88.6 89.7 90.7 88.8 88.7 91.0 91.6 87.4 |
| 1981 | January February March† AVERAGE | 118.9 R121.3 127.2 122.5 | 121.6 R128.1 131.1 126.6 | 99.2 102.7 106.6 103.2 | 97.1 R103.6 105.6 102.0 | 95.7 101.6 106.3 101.1 |

Geographic coverage: the 50 United States and District of Columbia.

Nearly all naphtha-type fuels are sold directly to the Defense Fuel Supply Center. Consequently, wholesale prices are not applicable.
Wholesale refers to the price of aviation fuel sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and accounts. Retail refers to the price of aviation fuel sold to ultimate consumers, including commercial airline and military

[†]Preliminary data. R = Revised data.

**Source: • FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

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 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 | January February March April May June July August September October November December AVERAGE | 75.0 77.8 78.8 78.8 79.3 80.2 79.2 79.3 79.3 80.7 84.0 88.6 80.0 | 75.2 79.0 80.4 81.0 81.4 82.5 83.0 82.9 83.0 83.7 86.1 91.3 | 16.2 16.7 17.1 17.0 16.3 15.8 15.3 15.2 15.4 15.3 13.8 14.1 | 90.8 95.3 97.1 97.4 97.2 97.9 97.9 98.1 98.7 101.1 106.5 97.8 |
| 1981 | January February March April† | 94.9 102.5 R102.8 99.9 | 98.6 106.0 106.3 108.2 | 15.1 16.1 R17.6 14.5 | 114.4 123.4 125.5 124.1 |

Geographic coverage: the 50 United States and District of Columbia.

'See Explanatory Note 17.

'Average selling prices, purchase prices, and dealer margins represent sales for residential heating oil only.

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

Source: FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" for 1976 through October 1980. EIA-9A, "No. 2 Distillate Price Monitoring Report" for November 1980 forward.

Price Residential Heating Oil Prices by Region

DOE Region¹

| | | | Cents per gallon | | | | | | | | |
|------|-----------|-------|------------------|--------------|--------|-------|----|--------|--------|-------|--------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1979 | January | 55.1 | 54.5 | 53.3 | 51.6 | 51.5 | NA | 49.6 | 50.4 | 47.6 | 50.8 |
| | February | 57.7 | 57.3 | 55.5 | 53.2 | 53.7 | NA | 51.3 | 51.4 | 49.4 | 52.9 |
| | March | 60.6 | 59.8 | 57.5 | 54.3 | 56.3 | NA | 54.7 | 55.3 | 50.8 | 55.3 |
| | April | 62.8 | 61.9 | 60.0 | 57.3 | 58.8 | NA | 58.2 | 58.4 | 53.8 | 57.8 |
| | May | 65.9 | 64.8 | 63.4 | 61.2 | 62.8 | NA | 62.0 | 62.7 | 56.2 | 60.8 |
| | June | 70.5 | 69.7 | 68.4 | 66.2 | 68.5 | NA | 68.9 | 67.8 | 62.2 | 66.4 |
| | July | 75.9 | 73.9 | 72.9 | 70.9 | 73.2 | NA | 72.0 | 72.5 | 68.4 | 72.3 |
| | August | 80.1 | 78.6 | 77. 7 | 74.8 | 78.5 | NA | 76.4 | 77.1 | 71.7 | 77.2 |
| | September | 83.3 | 81.4 | 80.0 | 79.4 | 81.5 | NA | 79.5 | 80.1 | 76.8 | 81.4 |
| | October | 84.1 | 82.5 | 81.7 | 79.1 | 82.6 | NA | 80.2 | 81.3 | 81.2 | 82.6 |
| | November | 85.1 | 83.7 | 82.4 | 80.5 | 83.9 | NA | 82.2 | 84.0 | 80.4 | 82.3 |
| | December | 87.2 | 85.7 | 85.1 | 82.9 | 86.1 | NA | 85.3 | 86.3 | 82.6 | 84.6 |
| 1980 | January | 91.8 | 91.0 | 90.2 | 88.6 | 90.4 | NA | 90.0 | 90.2 | 89.6 | 91.0 |
| | February | 96.7 | 95.3 | 94.7 | 93.0 | 93.5 | NA | 93.6 | 93.5 | 95.8 | 95.7 |
| | March | 98.7 | 97.2 | 96.5 | 94.8 | 94.3 | NA | 95.1 | 95.9 | 93.9 | 97.6 |
| | April | 99.2 | 97.3 | 96.6 | 94.1 | 94.5 | NA | 95.3 | 99.5 | 94.7 | 99.0 |
| | May | 98.7 | 97.3 | 96.4 | 94.2 | 95.8 | NA | 95.2 | 97.7 | 95.5 | 98.6 |
| | June | 99.8 | 97.9 | 96.8 | 95.1 | 95.8 | NA | 95.3 | 98.4 | 96.0 | 99.8 |
| | July | 100.3 | 98.1 | 96.6 | 94.2 | 96.2 | NA | 93.1 | 97.0 | 96.7 | 100.2 |
| | August | 100.2 | 97.9 | 96.8 | 94.8 | 95.7 | NA | 95.4 | 92.1 | 99.7 | 100.4 |
| | September | 100.5 | 98.2 | 97.0 | 94.7 | 95.7 | NA | 93.7 | 93.0 | 97.2 | 100.6 |
| | October | 101.1 | 98.8 | 97.4 | 95.6 | 95.9 | NA | 94.7 | 94.1 | 98.6 | 100.4 |
| | November | 102.5 | 103.0 | 99.9 | 101.5 | 98.8 | NA | 95.2 | 98.5 | 101.0 | 103.1 |
| | December | 108.2 | 108.5 | 105.3 | 106.6 | 103.4 | NA | 99.6 | 101.8 | NA | 105.6 |
| 1981 | January | 116.2 | 117.1 | 113.2 | 114.0 | 110.4 | NA | 106.3 | 108.6 | NA | 107.5 |
| | February | 125.8 | 126.6 | 123.0 | 124.4 | 117.8 | NA | 114,2 | 113.1 | NA | 113.7 |
| | March | 127.6 | R128.4 | 125.0 | R125.3 | 119.3 | NA | R115.4 | R119.3 | 111.5 | R116.5 |
| | April† | 127.3 | 126.3 | 121.8 | 123.8 | 118.2 | NA | 115.4 | 118.7 | NA | 117.9 |

¹DOE Regions are defined in Explanatory Note 18, †Preliminary data. R = Revised data.

NA = Not available. Data for Region 6 are based on a sample of less than four reporting firms.

Source: • FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" for 1979 through October 1980. EIA-9A, "No. 2 Distillate Price Monitoring Report" for November 1980 forward.

Price Average No. 6 Residual Fuel Oil Prices

| | | | to 0.3 nt sulfur | | to 1.0 nt sulfur | | than 1.0 It sulfur | Ave | erage |
|------|---|--|--|--|--|--|--|--|--|
| | | Whole- sale | Retail | Whole- sale | Retail | Whole- sale | Retail | Whole- sale | Retail |
| | | | | Ţ | Dollars per barr | el, excluding tax | ces | | |
| 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 | January February March April May June July August September October November December AVERAGE | 29.11 27.07 26.88 25.16 25.48 23.14 24.89 23.20 24.27 25.72 29.52 31.69 26.41 | 30.35 30.32 30.20 28.69 31.73 31.37 28.51 30.93 33.12 31.88 33.70 35.76 31.13 | 26.15 25.82 23.73 20.38 22.72 22.35 23.44 24.98 23.46 25.86 29.40 31.29 | 28.12 28.15 27.29 24.78 25.77 25.44 25.55 26.11 26.31 28.00 30.89 32.61 27.59 | 21.56 20.21 17.81 16.41 17.72 17.72 19.20 20.42 20.62 22.30 27.08 28.39 | 21.98 22.22 20.34 18.36 18.04 19.27 20.58 21.45 21.71 23.29 27.50 30.03 22.11 | 24.41 23.34 21.11 19.09 20.22 20.44 21.28 22.25 22.47 24.06 28.12 29.76 | 26.21 26.48 25.33 22.87 23.75 24.09 23.86 25.00 25.31 26.68 30.10 32.33 26.09 |
| 1981 | January February March† AVERAGE | 34.27 R38.04 37.53 36.44 | 37.23 R41.60 41.19 39.84 | 32.12 R34.96 34.72 33.64 | 33.96 R37.32 38.01 36.12 | 29.12 R28.96 30.61 29.20 | 31.35 R32.02 31.95 31.76 | 31.14 R31.81 32.71 31.54 | 33.65 R36.04 36.11 35.14 |

Geographic coverage: the 50 United States and District of Columbia.

Note: 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.
† Preliminary data. R = Revised data.

Source: • FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

Price

Natural Gas

| | | | Delivered | |
|------|-----------|------------------------------|-------------------------------|----------------------------------|
| | | Average Wellhead Value | to Electric Plant¹ | Average Residental Heating |
| | | C | Cents per thousand cubic feet | |
| 1973 | AVERAGE | 21.6 | 35.0 | 108.2 |
| 1974 | AVERAGE | 30.4 | 49.0 | 125.3 |
| 1975 | AVERAGE | 44.5 | 76.9 | 154.2 |
| 1976 | AVERAGE | 58.0 | 105.9 | 184.6 |
| 1977 | AVERAGE | 79.0 | 133.4 | 226.4 |
| 1978 | AVERAGE | 90.5 | 147.9 | 262.6 |
| 1979 | AVERAGE | 117.8 | 180.3 | 323.1 |
| 1980 | January | 134.4 | 201.1 | 354.9 |
| | February | 139.5 | 210.5 | 357.9 |
| | March | 141.3 | 214.7 | 368.1 |
| | April | 143.4 | 210.4 | 367.8 |
| | May | 145.2 | 218.1 | 393.9 |
| | June | 145.8 | 216.4 | 394.8 |
| | July | 152.8 | 237.3 | 410.6 |
| | August | 152.8 | 245.6 | 413.1 |
| | September | 157.4 | 245.6 | 417.0 |
| | October | 159.4 | 253.4 | 420.6 |
| | November | 163.3 | 238.4 | 396.1 |
| | December | 162.2 | 232.7 | 403.3 |
| | AVERAGE | 149.6 | 212.8 | 391.5 |
| 1981 | January | 167.6 | 258.8 | 406.9 |
| | February | 171.3 | 268.9 | 409.3 |
| | March | 172.1 | 273.0 | 417.4 |
| | April | NA | NA | 421.7 |

Geographic coverage: the 50 United States and District of Columbia.

Includes all electric utility generating plants with a combined capacity for 25 megawatts or greater. Small quantities of coke oven gas, refinery gas and blast furnace gas are included.

NA = Not available.

Sources: • Annual data for wellhead values are from the appropriate agencies of the individual producing states and the U.S. Geological Survey; monthly data are estimated primarily on the basis of values reported by state agencies in New Mexico, Oklahoma, and Texas.

• Electric Plant data are from Federal Power Commission Form 423, "Monthly Report of Cost and Quantity of Fuels for Electric Plants."

• Average residential heating prices, Bureau of Labor Statistics.

Price

Electricity

Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants

Average Retail Electricity Prices¹

| | | | | | | 1 | | | | |
|------|---|--|---|--|---|--|---|--|---|--|
| | | Coal | Residual Oil ² | Natural Gas³ | All Fossil Fuels² | Residential | Commercial | Industrial | Other | Total |
| | | | Cents per | million Btu | | | Cents pe | r kilowatt-hou | 7 | |
| 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 | January February March April May June July August September October November December AVERAGE | 128.7 129.9 130.1 133.8 133.3 135.1 137.4 139.5 138.9 138.1 139.3 137.8 | 423.5 429.7 411.0 394.9 403.1 392.7 394.5 404.9 411.3 452.2 496.0 521.9 427.9 | 194.8 203.9 207.9 204.0 212.0 209.3 228.5 237.2 238.7 245.7 231.3 226.3 | 187.3 189.8 184.8 178.2 180.3 178.8 199.0 196.2 193.5 192.2 200.0 206.6 189.3 | 4.69 4.74 4.92 5.14 5.41 5.60 5.66 5.72 5.71 5.68 5.61 5.49 5.36 | 4.90 4.97 5.17 5.28 5.44 5.61 5.65 5.64 5.73 5.84 5.71 5.69 5.48 | 3.32 3.45 3.49 3.59 3.79 3.93 3.94 3.88 3.84 3.85 3.88 | 4.19 4.63 4.69 4.71 4.97 4.58 4.93 4.81 4.95 4.88 5.06 4.82 4.76 | 4.21 4.25 4.40 4.48 4.63 4.85 5.03 5.07 5.03 4.95 4.89 4.90 |
| | AVERAGE | 133.2 | 427.9 | 212.9 | 109.3 | 3.36 | 5.48 | 3.09 | 4./6 | 4.73 |
| 1981 | January February March April | 142.3 146.3 148.4 NA | 540.2 572.9 583.9 NA | 254.1 260.5 263.8 NA | 221.3 218.4 215.2 NA | 5.44 5.52 5.76 5.99 | 5.73 5.83 6.01 6.14 | 3.94 3.95 4.04 4.07 | 4.92 5.01 5.33 5.20 | 4.96 4.99 5.12 5.20 |

NA = Not available.

Geographic coverage: Fossil Fuels — the lower 48 States and the District of Columbia. Electricity — the 50 United States and the District of Columbia.

Prices are for selected Classes A and B privately-owned electric utilities.

²See Explanatory Note 19.
³Includes small quantities of coke oven gas, refinery gas and blast furnace gas.

^{*}Average price for total sales to ultimate consumers.

Sources: • Cost of Fossil Fuels, Federal Power Commission, Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."
• Retail Price, January 1973 thru February 1980: Federal Power Commission, Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: Federal Energy Regulatory Commission, Form 5, "Electric Utility Company Monthly Statement."

Part 1(

International

Crude Oil Production

World crude oil production during March 1981 was 58.4 million barrels per day, up 0.3 million barrels per day from the February 1981 level.

OPEC output during March increased 0.1 million barrels per day from the previous month, averaging 25.2 million barrels per day. Average production from Arab members of OPEC was up 0.1 million barrels per day from February 1981 at 17.3 million barrels per day. In March, Iraq continued to expand its average production level to 1.0 million barrels per day, up 0.3 million barrels per day from the February level. Saudi Arabia decreased its average production in March by nearly 0.2 million barrels per day to 10.1 million barrels per day. Other OPEC nations maintained production in March at about the same level as that of the previous month.

Production by non-OPEC nations as a group increased 0.2 million barrels per day to 33.2 million barrels per day in March. This increase was largely a result of Mexico which increased its average production by more than 0.2 million barrels per day to 2.4 million barrels per day.

Petroleum Consumption

Petroleum consumption by International Energy Agency (IEA) member nations was 34.3 million barrels per day during February 1981. This preliminary figure was a decrease of 2.8 million barrels per day from the rate of 37.1 million barrels per day in February 1980. The comparable decrease for the United States for the same period was 2.0 million barrels per day.

Preliminary consumption data for April 1981 were available for France, Italy, and the United States. Both France and the United States had significant decreases from consumption levels occurring during the same month, one year ago. These decreases were 0.6 million barrels per day (27 percent) for France and 1.1 million barrels per day (7 percent) for the United States.

Nuclear Electricity Production

In April 1981, the non-Communist world generated 58.2 billion gross kilowatt-hours of nuclear-based electricity, a decrease of 6.4 percent with respect to March 1981 output, but 23.6 percent increase over April 1980 generation. United States nuclear electricity generation during April 1981 was 21.7 billion gross kilowatt-hours, about 37 percent of the "free world" generation for that month.

No new power reactor units came "on line" in April; as of April 30, 1981, the 18 non-Communist nations listed in the accompanying (International Nuclear) table operated a total of 213 power reactor units. Total nuclear generating capacity for the 18 non-Communist nations was 133.3 million kilowatts (MkW), of which 42.5 percent was in the United States. In order of decreasing nuclear capacity, the five leading non-Communist nations were: (1) United States-56.6 MkW; (2) France-18.3 MkW; (3) Japan-15.7 MkW; (4) United Kingdom-9.0 MkW; and (5) West Germany-9.0 MkW. Only four Communist countries had significant nuclear generating capacity: Union of Soviet Socialist Republics— 15.0 MkW, German Democratic Republic-1.7 MkW, Bulgaria-1.2 MkW and Czechoslovakia--1.0 MkW.

International

International **Crude Oil Production for Major Petroleum Exporting Countries**

| | | | | | | | Saudi | United Arab | Arab Members | Indo- | | | |
|------|--------------------------|---------|-------|---------------------|-------|-------|---------|----------------|----------------------|--------|-------|--|--|
| | | Algeria | Iraq | Kuwait [,] | Libya | Qatar | Arabia¹ | Emirates | of OPEC ² | nesia | Iran | | |
| • | Thousand barrels per day | | | | | | | | | | | | |
| 1973 | AVERAGE | 1,070 | 2,018 | 3,020 | 2,175 | 570 | 7,596 | 1,533 | 17,982 | 1,339 | 5,860 | | |
| 1974 | AVERAGE | 960 | 1,971 | 2,546 | 1,521 | 518 | 8,480 | 1,679 | 17,675 | 1,375 | 6,022 | | |
| 1975 | AVERAGE | 960 | 2,262 | 2,084 | 1,480 | 438 | 7,075 | 1,664 | 15,963 | 1,307 | 5,350 | | |
| 1976 | AVERAGE | 1,020 | 2,415 | 2,145 | 1,933 | 497 | 8,577 | 1,936 | 18,523 | 1,504 | 5,863 | | |
| 1977 | AVERAGE | 1,100 | 2,350 | 1,980 | 2,065 | 445 | 9,210 | 2,000 | 19,150 | 1,685 | 5,665 | | |
| 1978 | AVERAGE | 1,160 | 2,560 | 2,135 | 1,985 | 485 | 8,300 | 1,830 | 18,455 | 1,635 | 5,240 | | |
| 1979 | AVERAGE | 1,154 | 3,477 | 2,500 | 2,092 | 508 | 9,532 | 1,831 | 21,094 | 1,591 | 3,168 | | |
| 1980 | January | 1,150 | 3,400 | 2,140 | 2,100 | 495 | 9,785 | 1,740 | 20,810 | 1,565 | 2,295 | | |
| | February | 1,150 | 3,400 | 2,335 | 2,100 | 460 | 9,780 | 1,740 | 20,965 | 1,550 | 2,500 | | |
| | March | 1,150 | 3,400 | 2,090 | 2,000 | 500 | 9,790 | 1,695 | 20,625 | 1,575 | 2,350 | | |
| | April | 1,000 | 3,300 | 1,570 | 1,750 | 500 | 9,765 | 1,705 | 19,590 | 1,580 | 2,200 | | |
| | May | 1,000 | 3,300 | 1,525 | 1,750 | 480 | 9,775 | 1,765 | 19,595 | 1,550 | 1,700 | | |
| | June | 1,000 | 3,300 | 1,575 | 1,700 | 440 | 9,775 | 1,750 | 19,540 | 1,545 | 1,500 | | |
| | July | 1,000 | 3,100 | 1,365 | 1,680 | 460 | 9,765 | 1,710 | 19,080 | 1,565 | 1,700 | | |
| | August | 1,000 | 3,100 | 1,465 | 1,690 | 465 | 9,765 | 1,665 | 19,150 | 1,565 | 1,600 | | |
| | September | 1,000 | 3,000 | 1,290 | 1,680 | 460 | 9,740 | 1,670 | 18,840 | 1,565 | 1,400 | | |
| | October | 1,000 | 150 | 1,385 | 1,665 | 440 | 10,255 | 1,675 | 16,540 | 1,585 | 600 | | |
| | November | 1,000 | 350 | 1,505 | 1,680 | 475 | 10,265 | 1,695 | 16,930 | 1,630 | 800 | | |
| | December | 1,000 | 450 | 1,779 | 1,680 | 483 | 10,260 | 1,706 | 17,360 | 1,617 | 1,360 | | |
| | AVERAGE | 1,012 | 2,514 | 1,656 | 1,787 | 472 | 9,900 | 1,709 | 19,050 | 1,577 | 1,662 | | |
| 1981 | January | R950 | 600 | 1,765 | 1,600 | 505 | 10,265 | 1,620 | R17,305 | R1,630 | 1,600 | | |
| | February | R950 | 700 | 1,565 | 1,650 | 480 | 10,265 | 1,605 | R17,215 | R1,620 | 1,700 | | |
| | March | 950 | 1,000 | 1,560 | 1,600 | 505 | 10,110 | 1,610 | 17,335 | 1,635 | 1,700 | | |

Note: Data for 1980 and 1981 are preliminary.

¹Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In March 1981 total production in this region amounted to approximately 522,000 barrels per day.

²Arab members of OPEC include Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.

Additional footnotes on following page.

International

Crude Oil Production for Major Petroleum Exporting 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 | 30,961 | 1,800 | 450 | 8 | 9,208 | 1,140 | 8,420 | 3,843 | 55,830 |
| 1974 | AVERAGE | 2,255 | 2,976 | 30,683 | 1,695 | 580 | 9 | 8,774 | 1,310 | 9,020 | 3,805 | 55,875 |
| 1975 | AVERAGE | 1,783 | 2,346 | 27,134 | 1,420 | 720 | 20 | 8,375 | 1,490 | 9,630 | 4,201 | 52,990 |
| 1976 | AVERAGE | 2,067 | 2,294 | 30,711 | 1,300 | 800 | 245 | 8,132 | 1,735 | 10,170 | 4,302 | 57,395 |
| 1977 | AVERAGE | 2,085 | 2,240 | 31,230 | 1,320 | 980 | 770 | 8,245 | 1,875 | 10,700 | 4,490 | 59,610 |
| 1978 | AVERAGE | 1,895 | 2,165 | 29,800 | 1,315 | 1,215 | 1,080 | 8,707 | 2,080 | 11,215 | 4,698 | 60,190 |
| 1979 | AVERAGE | 2,302 | 2,356 | 30,928 | 1,495 | 1,460 | 1,570 | 8,552 | 2,120 | 11,470 | 4,824 | 62,400 |
| 1980 | January February March April May June July August September October November December AVERAGE | 2,155 2,160 2,155 2,100 2,200 2,110 2,095 2,050 1,600 1,879 2,062 2,026 2,055 | 2,280 2,200 1,995 2,045 2,150 2,050 2,170 2,210 2,190 2,225 2,230 2,330 2,167 | 29,535 29,805 29,100 27,965 27,645 27,175 27,030 27,010 25,955 23,255 24,065 25,050 26,890 | 1,515 1,475 1,475 1,390 1,470 1,535 1,520 1,440 1,420 1,311 1,467 1,300 | 1,720 1,725 1,830 1,885 1,910 1,905 2,015 2,000 2,125 2,182 1,901 2,027 1,937 | 1,600 1,660 1,670 1,510 1,600 1,625 1,585 1,535 1,540 1,572 1,731 1,795 | 8,648 8,696 8,712 8,688 8,640 8,547 8,555 8,422 8,619 8,536 8,499 8,609 8,597 | 2,115 2,115 2,115 2,120 2,120 2,120 2,125 2,130 2,110 2,076 2,088 2,083 2,114 | 11,560 11,550 11,640 11,630 11,700 11,630 11,800 11,800 11,800 11,800 11,800 11,824 11,893 | 5,042 5,189 5,203 5,352 5,175 5,203 4,945 5,158 5,056 5,228 5,095 5,303 5,151 | 61,735 62,215 61,745 60,540 60,260 59,740 59,575 59,495 58,625 55,960 56,670 58,060 59,455 |
| 1981 | January February March | 1,900 1,960 1,875 | 2,220 2,195 2,240 | R25,025 R25,075 25,190 | 1,260 1,300 1,200 | 2,220 2,120 2,365 | 1,765 1,820 1,885 | 8,550 8,611 8,576 | 2,025 2,025 2,025 | 11,900 11,900 11,900 | 5,250 5,244 5,269 | R57,995 R58,095 58,410 |

United States geographic coverage: the 50 United States and District of Columbia.

R = Revised data.

Note: Monthly data may not average to annual data due to independent rounding and/or unpublished monthly revisions by the data Note: Monthly data may not average to annual data due to independent rounding and/or unpublished monthly revisions by the dissource. Data for 1980 and 1981 are preliminary.

Sources:• 1973-1978 annual data (except U.S.): Central Intelligence Agency, International Energy Statistical Review.

1979 annual data (except U.S. and OPEC nations): Central Intelligence Agency, International Energy Statistical Review.

1979 annual data for OPEC nations: OPEC Annual Statistical Bulletin 1979.

1979 monthly data (except U.S.) are EIA estimates based on CIA revisions to annual data.

1973-1980 United States data: See sources on the last page of the Petroleum Section.

1980 and 1981 monthly and 1980 annual data (except U.S. and World total): Central Intelligence Agency, International Energy Statistical Review.

OPEC total includes production in Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, United Arab Emirates, Indonesia, Iran, Nigeria, Venezuela, Ecuador, and Gabon.

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

Statistical Review.

International

Petroleum Consumption for Major Non-Communist Industrialized Countries¹

| | | Canada | France ² | Italy | Japan | United Kingdom | United States | West Germany | Other IEA ³ | Total IEA ⁴ |
|------|---|--|--|---|--|--|--|--|--|--|
| | | | | | Thou | isand barrels p | er 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 | January February March April May June July August September October November December AVERAGE | 1,820 1,930 1,720 1,600 1,590 1,660 1,680 1,650 1,710 1,770 1,720 1,940 | 2,465 2,444 1,982 2,110 1,853 1,848 1,450 1,220 1,740 2,050 2,040 2,410 1,965 | 1,778 1,864 1,657 1,541 1,448 1,511 1,537 1,310 1,650 1,670 1,530 1,740 1,602 | 5,255 5,722 5,433 4,626 4,376 4,224 4,250 3,910 4,120 4,250 4,550 5,350 4,680 | 1,769 1,621 1,585 1,472 1,348 1,286 1,217 1,120 1,270 1,430 1,440 1,480 | 18,656 18,815 17,385 16,724 16,143 16,214 15,962 15,727 16,548 16,911 16,694 18,354 | R2,690 R2,410 R2,430 R2,680 R2,230 R2,220 R2,420 R2,150 R2,540 R2,230 R2,110 R2,190 R2,360 | R4,532 R4,738 R4,390 R4,257 R3,965 R3,979 R4,034 R3,833 R4,162 R3,939 R3,956 R4,446 R4,446 | 36,500 37,100 34,600 32,900 31,100 31,100 31,100 29,700 32,000 32,200 32,200 35,500 33,000 |
| 1981 | January February March April | 1,760 1,770 NA NA | 2,310 2,170 R1,790 1,530 | R1,700 1,970 1,700 1,590 | R4,980 5,350 5,060 NA | 1,400 1,460 1,430 NA | 18,132 16,773 15,569 15,593 | 2,230 2,510 NA NA | 4,598 4,467 NA NA | 34,800 34,300 NA NA |

NA = Not available. R = Revised data. Note: Data for 1980 and 1981 are preliminary.

* 1973-1981 United States data: See sources on last page of the Petroleum Section.

United States geographic coverage: the 50 United States and District of Columbia.

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 International Energy Agency (IEA) are: Australia, Austria, Belgium, Canada, Denmark, West Germany, Greece, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Spain, Sweden, Switzerland, Turkey, United Kingdom, and 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.

Data for 1979 and 1980 are rounded to the nearest hundred thousand barrels per day.

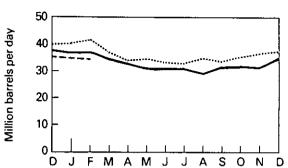
NA = Not available R = Revised data

[·] IEA totals for latest months are EIA estimates.

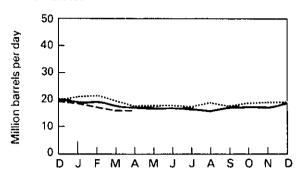
International

Petroleum Consumption

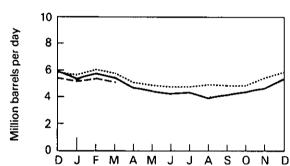




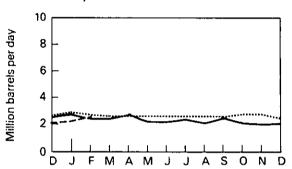
United States



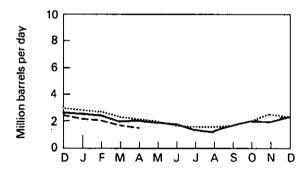
Japan*



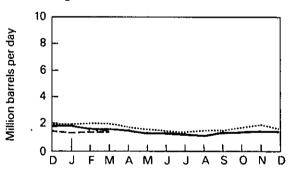
West Germany



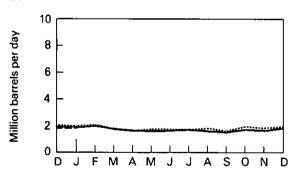
France**



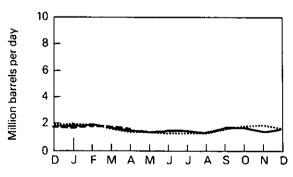
United Kingdom



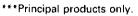
Canada



Italy***



- *Excludes liquefied petroleum gases and condensates.
 **Not a member of IEA.





International Nuclear Electricity Generation by Non-Communist Countries¹

| | | Argentina | Belgium | Canada | Finland | France | India | Italy | Japan | Nether- lands | Pakistan | | |
|------|---|--|--|--|--|--|---|---|--|--|--|--|--|
| | | Billion gross kilowatt-hours | | | | | | | | | | | |
| 1973 | TOTAL | 0 | 0 | 18.3 | 0 | 11.6 | 1.9 | 3.1 | 9.4 | 1.1 | 0.5 | | |
| 1974 | TOTAL | 1.0 | 0.1 | 15.4 | 0 | 14.7 | 2.4 | 3.4 | 18.1 | 3.3 | 0.6 | | |
| 1975 | TOTAL | 2.5 | 6.8 | 13.2 | 0 | 18.3 | 2.5 | 3.8 | 22.2 | 3.3 | 0.5 | | |
| 1976 | TOTAL | 2.6 | 10.0 | 18.0 | 0 | 15.8 | 3.2 | 3.8 | 36.8 | 3.9 | 0.5 | | |
| 1977 | TOTAL | 1.6 | 11.9 | 26.8 | 2.7 | 17.9 | 2.8 | 3.4 | 28.1 | 3.7 | 0.3 | | |
| 1978 | TOTAL | 2.9 | 12.5 | 32.9 | 3.3 | 30.5 | 2.3 | 4.4 | 53.2 | 4.1 | 0.2 | | |
| 1979 | TOTAL | 2.7 | 11.4 | 38.4 | 6.7 | 39.9 | 3.2 | 2.6 | 62.0 | 3.5 | (s) | | |
| 1980 | January February March April May June July August September October November December | 0.3 0.1 0 0.1 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 | 1.2 1.0 1.0 0.5 0.7 1.1 1.3 1.3 1.1 0.9 1.1 1.2 | 3.6 3.5 3.7 3.2 2.5 3.1 3.6 3.9 3.1 3.3 3.4 3.5 | 0.8 0.8 0.8 0.3 0 0.4 0.4 0.5 0.6 1.2 | 5.5 5.3 5.1 5.0 4.2 4.1 4.8 3.2 4.5 5.1 5.8 8.5 | 0.2 0.1 0.2 0.3 0.3 0.2 0.2 0.3 0.3 0.2 0.3 0.2 2.9 | 0.2 0.4 0.5 0.4 0.3 0.1 0.1 0.1 0.0 0 0 | 8.0 7.4 8.0 5.6 6.0 6.7 7.8 8.6 7.0 6.0 5.4 6.3 | 0.4 0.4 0.3 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.3 | 0 0 0 0 0 (s) (s) (s) (s) (s) 0 (s) | | |
| 1981 | January February March April TOTAL (Year-to-date) | 0.3 0.2 0.3 0.2 0.9 | 1.2 1.0 0.6 0.7 3.4 | 3.2 3.5 3.9 3.3 14.0 | 1.3 0.9 1.4 1.5 5.1 | 9.3 8.6 8.8 8.3 35.0 | 0.2 0.2 0.3 0.3 0.9 | 0.2 0.3 0.1 0.6 1.1 | 8.2 7.1 7.8 7.9 31.1 | 0.1 (s) 0.3 0.4 0.7 | (s) (s) 0 0 | | |

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

¹Figures are for gross electrical generation as opposed to net electrical 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.

Source: • Nucleonics Week.

International Nuclear Electricity Generation by Non-Communist Countries¹ (continued)

| | | South Korea | Spain | Sweden | Switzer- land | , Taiwan | United Kingdom² | West Germany | Non- Communist World Excluding U.S. | United States | Total Non- Communist World |
|------|-------------------------|----------------|------------|------------|------------------|------------|--------------------|-----------------|---|------------------|----------------------------------|
| | | | | | | Billion gr | oss kilowati | t-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 | Ò | 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 | 181.8 | 334.5 |
| 1976 | TOTAL | 0 | 7.6 | 16.0 | 7.9 | 0 | 36.8 | 24.5 | 187.3 | 201.6 | 388.9 |
| 1977 | TOTAL | 0.1 | 6.5 | 19.9 | 8.1 | 0.1 | 38.1 | 35.8 | 207.8 | 263.2 | 470.9 |
| 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 | 270.7 | 570.8 |
| 1980 | January | 0.1 | 0.7 | 2.5 | 1.5 | 0.9 | 3.7 | 4.7 | 34.2 | 21.1 | 55.3 |
| | February | (s) | 0.3 | 2.4 | 1.2 | 0.7 | 3.4 | 4.2 | 31.3 | 21.0 | 52.2 |
| | March April | 0.4 0.4 | 0.4 0.4 | 2.3 | 1.3 | 0.8 | 4.2 | 3.4 | 32.4 | 21.0 | 53.4 |
| | May | 0.4 | 0.4 | 1.9 1.6 | 1.4 1.4 | 0.7 0.4 | 2.7 2.6 | 3.6 | 27.3 | 19.8 | 47.1 |
| | June | 0.4 | 0.4 | 1.6 | 0.6 | 0.4 | 2.6 2.8 | 3.5 2.9 | 25.1 24.7 | 19.6 | 44.7 |
| | July | 0.1 | 0.3 | 1.3 | .0.6 | 0.3 | 2.0 | 3.0 | 24.7 27.2 | 19.4 22.4 | 44.1 49.6 |
| | August | 0.3 | 0.4 | 1.3 | 0.7 | 0.8 | 2.6 | 2.7 | 27.2 27.2 | 25.7 | 52.9 |
| | September | 0.4 | 0.4 | 2.1 | 1.3 | 0.8 | 3.1 | 3.2 | 28.4 | 24.8 | 52.9 53.2 |
| | October | 0.4 | 0.4 | 2.7 | 1.4 | 0.8 | 2.7 | 3.1 | 28.2 | 25.7 | 53.9 |
| | November | 0.4 | 0.5 | 3.4 | 1.4 | 0.6 | 3.2 | 4.1 | 30.8 | 22.0 | 52.8 |
| | December | 0.3 | 0.7 | 3.6 | 1.5 | 0.5 | 4.2 | 5.3 | 37.5 | 22.9 | 60.5 |
| | TOTAL | 3.5 | 5.2 | 26.7 | 14.3 | 8.2 | 37.2 | 43.7 | 354.4 | 265.3 | 619.7 |
| 1981 | January | 0.3 | 8.0 | 3.5 | 1.5 | 8.0 | 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 |
| | TOTAL (Year-to-date) | 0.3 | 2.6 | 14.1 | 5.8 | 3.2 | 14.2 | 19.0 | 151.5 | 93.1 | 244.6 |

United States geographic coverage: the 50 United States and District of Columbia.

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

Figures 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.

The United Kingdom assesses generation at 4- or 5-week intervals, rather than by calendar month.

Seurce: 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.

Average Retail Selling Price, Motor Gasoline

The average price of sales of motor gasoline to retail customers at service stations.

Bituminous Coal

A coal which is high in carbonaceous matter, having a volatility greater than anthracite coal 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.

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 primarily used 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.

Crude Oil Domestic Production

Domestic crude oil production is measured at the wellhead and includes lease condensate, which is a natural gas liquid recovered from lease separators or field facilities.

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.

Distillate Fuel Oil Production

Total production of distillate fuel by refineries, measured at the refinery outlet. Relatively small quantities of distillate fuel are produced at natural gas processing plants, but these quantities are not included.

Electricity Production

Production at electric utilities only. Does not include industrial electricity generation.

Exploratory Well

A well drilled to 1.) find and produce oil or gas in an unproved area; 2.) find a new reservoir in a field previously found to be productive of oil or gas in another reservoir; or 3.) extend the limit of a known oil or gas reservoir.

Full Serve

Motor vehicle services are provided by an attendant, such as: pumping gas, washing windows, checking under the hood, checking tire pressure, etc.

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) which are classified by customs officials as "imports for consumption" or "withdrawals from bonded warehouse for consumption," including withdrawals from bonded warehouse 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 warehouse and into U.S. territories and U.S. Foreign Trade Zones.

Jet Fuel

Includes both naphtha-type and kerosene-type jet fuel meeting standards for use in aircraft turbine engines or meeting ASTM Specification D1655. Although most jet fuel is used in aircraft, some is used for other purposes, such as fuel for turbines to produce electricity.

Landed Cost

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 computed based on major importers which account for an estimated 90 to 95 percent of total crude oil imports. Coverage includes United States and its territories.

Lease Condensate

A natural gas liquid recovered from gas well gas (including gas produced from crude oil reservoirs) in lease separators and, in some instances, field facilities. It consists primarily of pentanes and heavier hydrocarbons. Generally, it is blended with crude oil for refining.

Line Miles of Seismic Exploration

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

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.

Major Brand

Lundberg Survey, Inc., defines major brand as an integrated company that produces, refines, transports, and markets in Interstate Commerce under its own brand(s) in 10 or more states.

Maximum Dependable Capacity, Net

Represents the dependable main-unit net capacity of domestic 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

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 leaded and unleaded products and all refinery products listed in ASTM Specification D439.

Motor Gasoline Production

Total production of motor gasoline by refineries, measured at the refinery outlet. Relatively small quantities of motor gasoline are produced at natural gas processing plants, but these quantities are not included.

Motor Gasoline, Regular Grade

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

Motor Gasoline, Premium Grade

Volatile hydrocarbon mixture suitable for operation of an internal combustion engine and customarily marketed as "ethyl," "super," or equivalent classification.

Natural Gas

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

Natural Gas Liquids

Those portions of reservoir gas which are liquefied at the surface in lease separators, field facilities, or natural gas processing plants. Natural gas liquids include natural gas plant liquids and lease condensate.

Natural Gas Plant Liquids

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

Natural Gas Production (Dry)

Derived by subtracting extraction loss from marketed production. It represents the amount of domestic natural gas production that is available to be marketed and consumed as a gas.

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 productions.

Petroleum Products

Products obtained from the processing of crude oil, unfinished oils, natural gas liquids and other miscellaneous hydrocarbon compounds. Includes aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, ethane, liquefied petroleum gases, petrochemical feedstocks, special naphthas, lubricants, paraffin wax, petroleum coke, asphalt, road oil, still gas and other miscellaneous products.

Refined Petroleum Product Supplied

Total refined petroleum product supplied is the sum of each refined petroleum product supplied. For each product the amount supplied is derived by summing production, imports, and net withdrawals from primary stocks and subtracting 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 which 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, heavy diesel oil, 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

Motor vehicle services are not provided by attendants.

Strategic Petroleum Reserve

A plan developed to reduce the impact of interruption of imports of petroleum. 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.

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, bulk terminals, and pipelines (including pipeline fill) where the storage capacity exceeds 50,000 barrels. Stocks held at natural gas processing plants are not included as well as stocks held in secondary storage facilities, such as those held by jobbers, dealers, independent marketers, and consumers.

Synthetic Natural Gas (SNG)

A product resulting from the manufacture, conversion, or reforming of hydrocarbons which 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.

Well

A hole drilled for the process of finding or producing crude oil or natural gas or providing services related to the production of crude oil or natural gas. Wells are classified as oil wells, gas wells, dry holes, stratigraphic tests, or service wells.

Explanatory Notes

- 1. Domestic production of energy includes production of coal (anthracite, bituminous, 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 in Thermal Conversion Factors.
- 2. 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 in Thermal Conversion Factors.
- 3. 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.
- U.S. energy exports include bituminous coal and anthracite, crude oil, refined petroleum products, natural gas (dry), electricity produced from hydropower, and coke made from coal.
- 5. The Residential and Commercial Sector consists of housing units, non-manufacturing business establishments (e.g., wholesale and retail businesses), health and educational institutions, and government office buildings. The Industrial Sector is made up of construction, manufacturing, agriculture, and mining establishments. The Transportation Sector consists of both private and public passenger and freight transportation, as well as government transportation, including military operations. The Electric Utilities Sector is made up of privately- and publicly-owned establishments which generate electricity primarily for resale.
- 6. 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 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 two degree-day data bases maintained by the National Oceanic and Atmospheric Administration. Weekly degree-day information is based on mean daily temperatures recorded at about 200 major weather

stations around the country. Monthly data are based on readings at more than 8,000 weather stations. 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 Petroleum Administration for Defense (PAD) Districts and into the national average, also using a population weighting method.

Weekly weather reports are available much sooner than the monthly reports, and therefore the degree-day information published in the *Monthly Energy Review* is normally derived from the weekly source.

7. Domestic products supplied figures for natural gas liquids (NGL) in this publication do not include amounts utilized by refineries for blending purposes in the production of finished products, principally gasoline. Use of NGL at refineries is reported in a separate column. The production series cited in this publication shows both NGL produced at processing plants and liquefied gases produced at refineries (LRG). LRG produced at refineries is extracted from crude oil and hence, to avoid double counting, should not be included in calculations of total U.S. production of petroleum liquids. The stock series shown in this volume includes natural gas liquids held as stocks at both natural gas processing plants and at refineries and LRG held at refineries.

Preliminary monthly estimates for 1980 production, stocks, and products supplied are obtained by multiplying the reported data for the most recent month available by an appropriate ratio derived from data for the prior 3 years. For example, if an estimate were required for June 1980 and the most recent monthly data available were for April, the preliminary estimate would be obtained by multiplying the April 1980 data by the average of the June to April ratios for the years 1977 through 1979.

- 8. Domestic consumption of natural gas includes the quantities sold to consumers plus the gas used for plant and pipeline fuel, after the natural gas liquids have been extracted. All monthly consumption data are estimated. Marketed production of natural gas includes gross withdrawals from the ground less the quantities used for repressuring and the amount vented and flared, before the natural gas liquids have been extracted. Dry production of natural gas is the quantity remaining after the natural gas liquids have been extracted.
- 9. 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 which 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.

10. Bituminous coal and lignite production is calculated from the number of railroad cars loaded at mines, based on the assumption that approximately 60 percent of the coal produced is transported by rail. Production data are estimated by EIA from Association of American Railroads reports of carloadings.

Bituminous coal and lignite consumption is calculated by Energy Information Administration (EIA) from information provided by the Federal Energy Regulatory Commission, Department of Commerce, and reports from selected manufacturing industries and retailers.

Domestic consumption data in this series, therefore, approximate actual consumption. This is in contrast to domestic demand reported for petroleum products, which is calculated value representing total disappearance from primary supplies.

The data sources used to compute the monthly coal consumption estimates from 1978 forward for the "Other Industrial" (i.e. Industrial except coke plants) sector are:

- (a) Form EIA-3, "Monthly Fuel Consumption Report—Manufacturing Plants."
- (b) Form EIA-6, "Bituminous Coal and Lignite Distribution Report."

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

$$C = S_R + R - S_{F_r} \tag{1}$$

where

S_B = beginning stocks

R = receipts

 $S_F = ending stocks.$

The change in stocks (S_B - S_E) can be denoted by Δ S. From equation (1), consumption is

$$C = \Delta S + R. \tag{2}$$

The Form EIA-6 provides complete coverage of the "Other Industrial" sector. The quarterly receipts are obtained from this form.

The Form EIA-3 does not provide total coverage of the "Other Industrial" sector, however it does contain stock change information. The impact of the stock change in the portion of the sector that is not covered by the Form EIA-3 is not substantial.

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 quarter as

$$C_{M} = (C_{M3}/C_{3}) \bullet C \tag{3}$$

where

C_{M3} = the monthly consumption in the "Other Industrial" sector as reported on Form EIA-3.

C₃ = the quarterly consumption in the "Other Industrial" sector as reported on Form EIA-3.

Equation (3) insures that a) the monthly consumption estimates (C_M) sum to C over the quarter and b) the estimated seasonality for the C_M 's is the same as that for the C_{M3} 's.

- 11. The units used to describe power generation at nuclear plants are based on the watt, a unit of power. (Power is energy produced per unit of time.) Nuclear power plants may have more than one type of power rating, including:
 - (a). Design Capacity or Design Electrical Rating (DER)—The nominal net, electrical output of the unit specified by the utility and used for the purpose of plant design.
 - (b). Maximum Dependable Capacity (MDC), GROSS—The gross electrical output as measured at the output terminals of the turbine generator during the most restrictive seasonal conditions (usually summer).
 - (c). Maximum Dependable Capacity, NET—The gross maximum dependable capacity less the nominal station service load. (The nominal station service load for a nuclear plant is about 5 percent of its gross generation.)
 - (d). Thermal Capacity—The rate of heat production by the reactor core. The Nuclear Regulatory Commission authorizes a maximum thermal power rating for U.S. reactors.
- 12. 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.
- 13. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on Form EIA-14, the "Refiners' Monthly Cost Report." These prices were previously published from data collected on Form ERA-49, the "Domestic Crude Oil Entitlements Program Refiners Monthly Report." The Form ERA-49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for Form EIA-14 in accordance with conventions used for Form ERA-49. Also, the respondents for the two forms are essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken in comparing the data collected on the two forms.

The 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 Form ERA-49. The revised costs are from data collected on Form EIA-14. The January prices are being replaced because the Form ERA-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 Form ERA-51, the "Transfer Pricing Report," or any crude oil which is not domestic oil.

Crude oil costs and volumes reported on Form ERA-49 excluded unfinished oils but included 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 Form ERA-49 exclude oil purchased for SPR, whereas the composite averages derived from Form ERA-49 include SPR. None of the prices derived from Form EIA-14 include either unfinished oils or SPR.

- 14. 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.
- 15. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to March 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries which 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.
- 16. The motor gasoline prices are calculated monthly by the BLS 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 are collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers — about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self- serve).

- 17. 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.
- 18. The U.S. Department of Energy 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, District of Columbia, Delaware;
- Region 4 Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone;
- Region 5 Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio;
- Region 6 —Texas, New Mexico, Oklahoma, 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.
- 19. Residual fuel oil prices include fuel oil No. 4, No. 5, No. 6, crude oil and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (fuel oil No. 2, kerosene, and jet fuel) prices.

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Conversion Factors

Thermal Conversion Factors

| Approximate Heat Content of Various | s Fuels | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980-81 |
|--------------------------------------|--------------------------------|------------------|-------------|------------|-------------|---|------------|------------|------------|
| Austranita | | | | | | | | | 00 500 000 |
| Anthracite | Btu/short ton | 23.170.000 | 22,560,000 | 23,390,000 | 22,770,000 | 23,180,000 | 23,520,000 | 23,590,000 | 23,590,000 |
| | Btu/short ton | 25,400,000 | 25,400,000 | 25,400,000 | 25,400,000 | 25,400,000 | 25,400,000 | 25,400,000 | 25,400,000 |
| Imports and Exports | Btu/short ton | 22,710,000 | 21,950,000 | 21,740,000 | 22,150,000 | 22,710,000 | 22,970,000 | 22,700,000 | 22,700,000 |
| Consumption, average | Btu/short ton | 17,920,000 | 17,200,000 | 17,060,000 | 17,530,000 | 17,240,000 | 17,100,000 | 17,450,000 | 17,380,000 |
| Electric utility consumption | Btu/short ton | 24,340,000 | 23,750,000 | 23,650,000 | 23,840,000 | 24,990,000 | 25,170,000 | 25,200,000 | 24,690,000 |
| Non-utility consumption | Blu/SHOIT ton | 2,4,040,000 | 20,.40,000 | | | | | | |
| Bituminous coal and lignite | Btu/short ton | 24,010,000 | 23,730,000 | 23,200,000 | 23,150,000 | 22,700,000 | 22,430,000 | 22,590,000 | 22,590,000 |
| Production | Btu/short ton | 25,000,000 | 25,000,000 | 25,000,000 | 25,000,000 | 25,000,000 | 25,000,000 | 25,000,000 | 25,000,000 |
| mporta | Btu/short ton | 27,000,000 | 27,000,000 | 27,000,000 | 27,000,000 | 27,000,000 | 27,000,000 | 27,000,000 | 27,000,000 |
| Exports | | 23,650,000 | 23.070.000 | 22,800,000 | 22,750,000 | 22,330,000 | 22,140,000 | 22,200,000 | 22,200,000 |
| Consumption, average | Btu/short ton Btu/short ton | 22,260,000 | 21,800,000 | 21,660,000 | 21,690,000 | 21,480,000 | 21,280,000 | 21,380,000 | 21,310,000 |
| Electric utility consumption | | 26,840,000 | 26,120,000 | 25,810,000 | 25,870,000 | 25,130,000 | 25,070,000 | 25,060,000 | 25,970,000 |
| Non-utility consumption | Btu/short ton Btu/short ton | 26,000,000 | 26,000,000 | 26,000,000 | 26,000,000 | 26,000,000 | 26,000,000 | 26,000,000 | 26,000,000 |
| Coal Coke | blu/Short torr | 20,000,000 | 20,000,000 | | , | • | | | |
| Crude petroleum ' | Daviboreal | 5.800,000 | 5.800.000 | 5.800.000 | 5.800.000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 |
| Production | Btu/barrel | 5,817,000 | 5,827,000 | 5,821,000 | 5,808,000 | 5.810,000 | 5,802,000 | 5,810,000 | 5,810,000 |
| Imports | Btu/barrel | 5.800,000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 |
| Exports | Btu/barrel | 5,600,000 | 5,000,000 | 3,000,000 | 0,000,000 | *, | , , | | |
| Crude petroleum and products | De 16 1 | 5,897,000 | 5,884,000 | 5.858,000 | 5,856,000 | 5,834,000 | 5,839,000 | 5,810,000 | 5,810,000 |
| Imports, average | Btu/barrel | 5,752,000 | 5,774,000 | 5,748,000 | 5,745,000 | 5,797,000 | 5,808,000 | 5,832,000 | 5,832,000 |
| Exports, average | Btu/barrel | 5,752,000 | 5,774,000 | 3,740,000 | 0,, .0,0 | • | , . | | |
| Petroleum products | Daytharad | 5.515.000 | 5,504,000 | 5,494,000 | 5,504,000 | 5,518,000 | 5,519,000 | 5,494,000 | 5,494,000 |
| Consumption, average | Btu/barrel | 5,686,000 | 5,681,000 | 5,655,000 | 5,661,000 | 5,664,000 | 5,682,000 | 5,661,000 | 5,633,000 |
| Residential and Commercial | Btu/barrel | 5,325,000 | 5,304,000 | 5,304,000 | 5,336,000 | 5,368,000 | 5,369,000 | 5,338,000 | 5,380,000 |
| Industrial | Btu/barrel | 5,398,000 | 5,396,000 | 5,395,000 | 5,400,000 | 5,404,000 | 5,412,000 | 5,415,000 | 5,409,000 |
| Transportation | Btu/barrel | | 6,215,000 | 6,229,000 | 6,235,000 | 6,231,000 | 6,227,000 | 6,245,000 | 6,246,000 |
| Electric Utility | Btu/barrel | 6,223,000 | 5,959,000 | 5,935,000 | 5,980,000 | 5,908,000 | 5,955,000 | 5,811,000 | 5,811,000 |
| Imports | Btu/barrel | 5,983,000 | 5,773,000 | 5,747,000 | | 5,796,000 | 5,814,000 | 5,864,000 | 5,864,000 |
| Exports | Btu/barrel | 5,752,000 | 3,730,000 | 3,715,000 | | 3,677,000 | 3,669,000 | 3,680,000 | 3,680,000 |
| LPG Consumption Average ² | Btu/barrel | 3,746,000 | 3,730,000 | 3,713,000 | 0,111,000 | -,, | -, | | |
| Natural gas plant liquid | - | 4 040 000 | 4.011,000 | 3,984,000 | 3.964,000 | 3,941,000 | 3,925,000 | 3,955,000 | 3,955,000 |
| production | Btu/barrel | 4,049,000 | 4,011,000 | 3,364,000 | 3,304,000 | 0,04.,000 | 0,4, | | |
| Natural gas, dry | D | 1.021 | 1,024 | 1,021 | 1,020 | 1,021 | 1.019 | 1,021 | 1,021 |
| Production and consumption | Btu/cubic foot | 1,021 | 1,022 | 1,026 | ., | | 1.034 | 1,034 | 1,030 |
| Electric utility consumption | Btu/cubic foot | 1,024 | 1,024 | 1,020 | | * | 1,016 | 1,018 | 1,019 |
| Non-utility consumption | Btu/cubic foot | 1,020 | 1.027 | 1,026 | * | | | 1,037 | 1,037 |
| Imports | Btu/cubic foot | 1,026 | 1,027 | 1,014 | | | 1,013 | 1,013 | 1,013 |
| Exports | Btu/cubic foot | 1,023 | 1,010 | 1,014 | ,,,,, | ., | | | |
| Natural gas, wet | Dr ht- foot | 1.002 | 1,097 | 1,095 | 1,093 | 1,093 | 1,088 | 1,092 | 1,092 |
| Production | Btu cubic foot | 1,093 | | | | | | 10,435 | |
| Hydropower ³ | Btu/kWh | 10,389 10,903 | | | | | | 10,769 | 10,769 |
| Nuclear power ³ | Btu/kvvn | | | | | | | 21,611 | |
| Geothermal power3 | Btu/kyvn | 21,674 | | | | | | 3,412 | 3,412 |
| Electricity consumption | Btu/kWh | 3,412 | 3,412 | 3,412 | . 0,-12 | • | | | |
| Refined Petroleum Products: | Btu/barrel | | | | | | | | |
| Homes I divident / . dans. | | | | | | | | | |
| Asphalt | 6,636,000 | Units | of Meas | ure | | | | | |
| Aviation gasoline | 5,048,000 | | | | | | | | |
| Butane | 4,326,000 | Weight | | | | | | | |
| Butane-propane mixture4 | 4,130,000 | • | _ | | | 0 004 6 | 20 | | |
| Distillate fuel oil | 5,825,000 | 1 meti | ric ton con | tains 1,00 | jų kilogram | s or 2,204.6 | oz pounds | | |
| Ethane | 3,082,000 | 1 long | | tains 2,24 | 40 pounds | | | | |
| Ethane-propane mixture ⁵ | 3,308,000 | 1 shor | | | 00 pounds | | | | |
| | 3,974,000 | 1 31101 | | | F | | | | |
| Isobutane | 5,670,000 | • | : F | for Crudo | Oil /Avers | o Gravityl | | | |

Conversion Factors for Crude Oil (Average Gravity)

1 barrel contains 42 gallons

0.136 metric tons (0.150 short tons) contains 1 harrel

7.33 barrels 1 metric ton contains 6 65 harrels 1 short ton contains

Conversion Factors for Uranium

1 short ton (U₃O₈) contains 0.769 metric tons of uranium 1 short ton (UF₆) contains
1 metric ton (UF₆) contains
0.613 metric tons of uranium
0.676 metric tons of uranium

Jet fuel—kerosene type Jet fuel—naphtha type

Petrochemical feedstocks

Kerosene

Lubricants

Motor gasoline

Natural gasoline

Naphtha 400° Other oils over 400°

Petroleum coke

Plant condensate

Residual fuel oil

Special naphtha

Unfinished oils Miscellaneous

Still gas

Propane

Road oil

Still gas

5,670,000 5,355,000 5,670,000

6,065,000

5,253,000

4,620,000

5,248,000

5,825,000 6,000,000

6,024,000

5,418,000

3,836,000

6,287,000

6,636,000

5,248,000

6,000,000

5,825,000 5,537,000

5,796,000

Includes lease condensate

2 LPG Consumption Average is the annual weighted average of the LPG product supplied components: ethane, ethylene, propane, propylene, butane, butylene, butane-propane mixture, and isobutane, and isobutane mixture, ethane-propane mixture, and isobutane are factors at fossil fuel or a first is no generally accepted practice for measuring hydropower thermal conversion rates. The hydropower factors on this page are the prevailing heat 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, 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, steam electric powerplants. By using the terminal steam consumed at power production for producing electricity. Similarly, the nuclear power and 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 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 hydropower is the principal means for producing electricity. Similarly, the nuclear power hydropower is the principal means for producing electricity. Similarly, the nuclear power hydropower is the principal means for producing electricity. Similarly, the nuclear power and it allows for better comparisons with certain other countries and a powerplant efficiency by using these hydropowers are factors. The efficiency is experience, and the hydropower is the principal means for producing electricity. Similarly, the nuclear power and it allows for the unit of the

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