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Monthly Energy Review



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U.S. Coal Resources and Reserves — July 1975

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OVERVIEW

Motor Gasoline Forecast

With peaks in summer driving and gasoline consumption approaching, it is appropriate to review the current gasoline situation and the Energy Information Administration forecast for gasoline supply and demand during the summer of 1981.*

During 1980, motor gasoline was supplied at an average rate of 6.6 million barrels per day, 6.4 percent below the 1979 daily rate. During January and February 1981, gasoline supplied for domestic use averaged 6.1 million barrels per day, 5.0 percent lower than during the first 2 months of 1980. Unleaded gasoline now accounts for about 50 percent of the total demand.

Under normal conditions, motor gasoline supplies are expected to be readily available to meet anticipated demand during the summer of 1981. Domestic productive capacity has kept pace with anticipated demand, stocks at the end of February were at record high levels, and imports are expected to be in line with previous levels.

Adequate supply levels are expected to be achieved without straining domestic productive capacity and without deviating from historical levels of importing activity. It is expected that an average of 6.3 million barrels per day of gasoline will be produced by domestic refineries during the May through September 1981 period, 1.3 percent below the same period in 1980. About 2 percent of motor gasoline will be imported and a normal seasonal stock draw-down is expected.

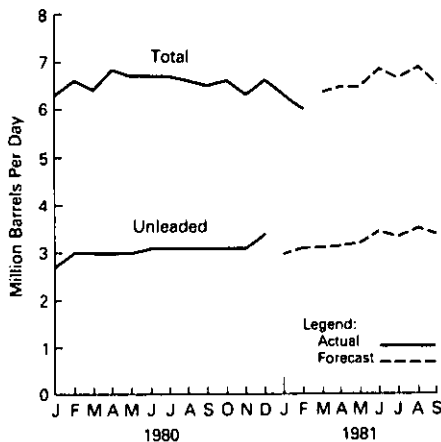
1981 Motor Gasoline Supplied Forecast (Million Barrels Per Day)

| | 2nd Qtr | 3rd Qtr |
|----------|-------------|-------------|
| Leaded | 3.28 | 3.23 |
| Unleaded | <u>3.26</u> | <u>3.43</u> |
| Total | 6.54 | 6.65 |

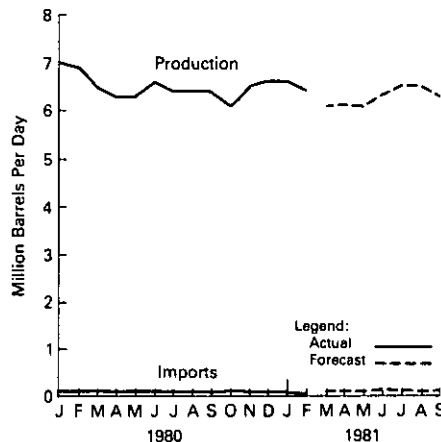
During the peak driving season (May through September), it is expected that an average of 6.6 million barrels per day will be supplied for domestic use, 0.4 percent below the level during the same period in 1980.

*The forecasts shown on these pages were prepared by the Energy Information Administration, Office of Applied Analysis and appear in the *Short-Term Energy Outlook*, February 1981.

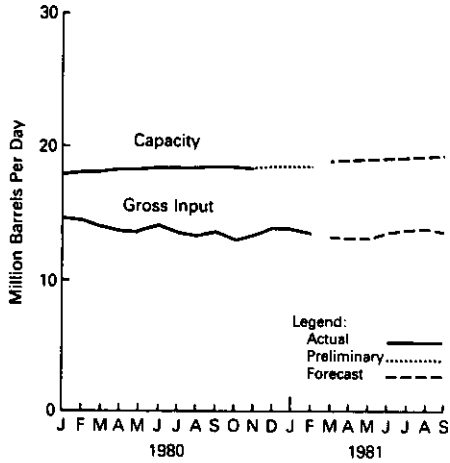
MOTOR GASOLINE PRODUCT SUPPLIED



REFINERY PRODUCTION AND IMPORTS



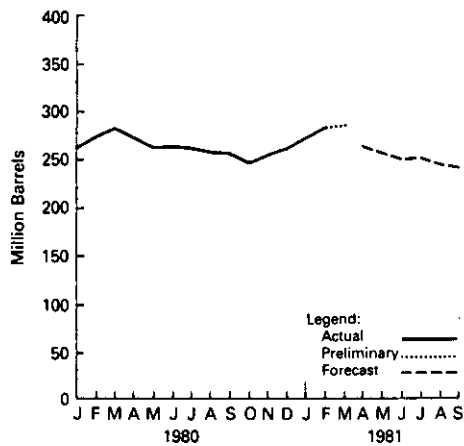
REFINERY OPERATIONS



Refinery Operations

Gross input to crude oil distillation units during February 1981 averaged 13.5 million barrels per day, 6.9 percent below the February 1980 level. Refinery utilization in the United States during February 1981 averaged 73.5 percent of the total operable crude oil distillation capacity, which measured about 18.4 million barrels per day. Refinery utilization rates during the summer of 1981 are expected to range between 68 and 73 percent of capacity.

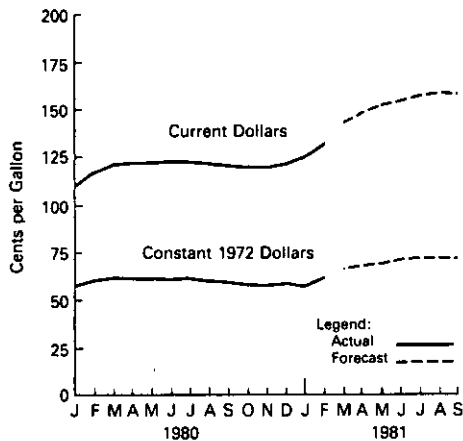
MOTOR GASOLINE STOCKS



Stocks

Motor gasoline stocks held at refineries, bulk terminals, and pipelines at the end of February 1981 measured 284.3 million barrels, 3.6 percent above the level a year earlier. Stocks continued building to record-high levels throughout March and reached 286.3 million barrels the week ending March 27, 1981, (as reported in the *Weekly Petroleum Status Report*, April 3, 1981).

RETAIL PRICE OF MOTOR GASOLINE LEADED REGULAR AT FULL-SERVICE PUMPS



Prices

The average retail price of leaded regular motor gasoline at full-service pumps rose from \$1.18 per gallon in February 1980 to \$1.37 per gallon in February 1981, an increase of 19 cents per gallon. If these prices are deflated by the inflation rate experienced in the United States during these months (as measured by the Bureau of Labor Statistics' Consumer Price Index), the price of leaded regular gasoline (in constant 1972 dollars) rose from 61.7 cents per gallon in February 1980, to 64.5 cents per gallon in February 1981 a real price increase of 2.8 cents per gallon. The price of leaded regular motor gasoline at full-service pumps in current dollars is projected to range between \$1.51 and \$1.71 per gallon in the third quarter of 1981.

Energy Summary

Production

Energy production for January 1981 totaled 5.5 quadrillion Btu, a decrease of 1.0 percent from January 1980. Decreases in production occurred for petroleum and coal. Petroleum production was down 1.8 percent and coal 2.7 percent. Natural gas production increased by 0.3 percent. All other forms of energy production combined were up by 2.5 percent, primarily due to an 18.3 percent increase in electricity production by nuclear plants.

Consumption

Energy consumption in January 1981 totaled 7.5 quadrillion Btu, a 0.7 percent increase compared to consumption for Jan-

uary 1980. Increases in the daily consumption rates of natural gas (1.4 percent) and coal (5.5 percent) contributed to the overall rise in energy consumption during this period. The average daily rate of petroleum consumption was down 2.0 percent from the January 1980 level.

Imports

Net imports of energy for January 1981 totaled 1.0 quadrillion Btu, 32.2 percent below the January 1980 level. By energy source, the decreases in net imports were natural gas, 28.9 percent; petroleum, 27.3 percent; and electricity and coal coke combined, 17.6 percent. Net exports of coal for January 1981 were 32.7 percent higher than the level for January 1980.

ENERGY SUMMARY (Quadrillion (10¹⁵) Btu)

| | January | | | | |
|--------------------------|--------------|-----------------------|--------------|-----------------------|-------------------|
| | 1981 | 1981 Daily Rate | 1980 | 1980 Daily Rate | Percent Change |
| Total Production | 5.512 | 0.178 | 5.569 | 0.180 | - 1.0 |
| Petroleum ¹ | 1.725 | 0.056 | 1.757 | 0.057 | - 1.8 |
| Natural Gas | 1.787 | 0.058 | 1.782 | 0.057 | + 0.3 |
| Coal | 1.501 | 0.048 | 1.543 | 0.050 | - 2.7 |
| Other ² | 0.499 | 0.016 | 0.487 | 0.016 | + 2.5 |
| Total Consumption | 7.479 | 0.241 | 7.425 | 0.240 | + 0.7 |
| Petroleum ³ | 3.113 | 0.100 | 3.177 | 0.102 | - 2.0 |
| Natural Gas | 2.359 | 0.076 | 2.327 | 0.075 | + 1.4 |
| Coal | 1.490 | 0.048 | 1.412 | 0.046 | + 5.5 |
| Other ⁴ | 0.517 | 0.017 | 0.509 | 0.016 | + 1.6 |
| Net Imports | 0.967 | 0.031 | 1.428 | 0.046 | - 32.2 |
| Petroleum ⁵ | 1.021 | 0.033 | 1.405 | 0.045 | - 27.3 |
| Natural Gas | 0.084 | 0.003 | 0.118 | 0.004 | - 28.9 |
| Coal | (0.155) | (0.005) | (0.117) | (0.004) | (+ 32.7) |
| Other ⁶ | 0.018 | 0.001 | 0.021 | 0.001 | - 17.6 |

Totals may not equal sum of components due to independent rounding.
 Parentheses indicate exports are greater than imports.
¹ Includes crude oil, lease condensate, and natural gas plant liquids.
² Includes hydroelectric, nuclear, and geothermal power and electricity produced from wood and waste.
³ Includes refined petroleum products and natural gas plant liquids.
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.
⁶ Includes net imports of electricity and coal coke.

Executive Summary

Energy Summary

| | | Energy Production ¹ | Energy Consumption ² | Energy Imports ³ | Energy Exports ⁴ |
|-------------------------------------|--------------|-----------------------------------|------------------------------------|--------------------------------|--------------------------------|
| 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 | 1.951 |
| 1979 | January | 5.325 | 7.934 | 1.783 | 0.177 |
| | February | 4.930 | 7.263 | 1.528 | 0.162 |
| | March | 5.510 | 6.993 | 1.722 | 0.245 |
| | April | 5.257 | 6.143 | 1.517 | 0.238 |
| | May | 5.466 | 6.194 | 1.602 | 0.254 |
| | June | 5.306 | 5.983 | 1.595 | 0.255 |
| | July | 5.008 | 6.117 | 1.684 | 0.270 |
| | August | 5.498 | 6.330 | 1.689 | 0.263 |
| | September | 5.173 | 5.896 | 1.536 | 0.223 |
| | October | 5.641 | 6.390 | 1.707 | 0.287 |
| | November | 5.413 | 6.535 | 1.564 | 0.265 |
| | December | 5.380 | 7.189 | 1.695 | 0.262 |
| | TOTAL | 63.907 | 78.968 | 19.622 | 2.900 |
| 1980 | January | 5.569 | 7.425 | 1.653 | 0.226 |
| | February | 5.227 | 7.020 | 1.462 | 0.206 |
| | March | 5.620 | 6.907 | 1.488 | 0.266 |
| | April | 5.412 | 6.021 | 1.334 | 0.298 |
| | May | 5.518 | 5.831 | 1.277 | 0.349 |
| | June | 5.346 | 5.709 | 1.289 | 0.367 |
| | July | 5.183 | R5.959 | 1.177 | 0.331 |
| | August | 5.327 | R5.850 | 1.188 | 0.321 |
| | September | 5.322 | 5.801 | 1.158 | 0.334 |
| | October | R5.519 | R6.200 | R1.235 | 0.374 |
| | November | 5.217 | 6.306 | 1.195 | 0.347 |
| | December | R5.610 | R7.314 | 1.321 | 0.342 |
| | TOTAL | R64.870 | R76.345 | R15.778 | 3.762 |
| 1981 | January | 5.512 | 7.479 | 1.238 | 0.271 |

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

¹See Explanatory Note 1.

²See Explanatory Note 2.

³See Explanatory Note 3.

⁴See Explanatory Note 4.

R=Revised data.

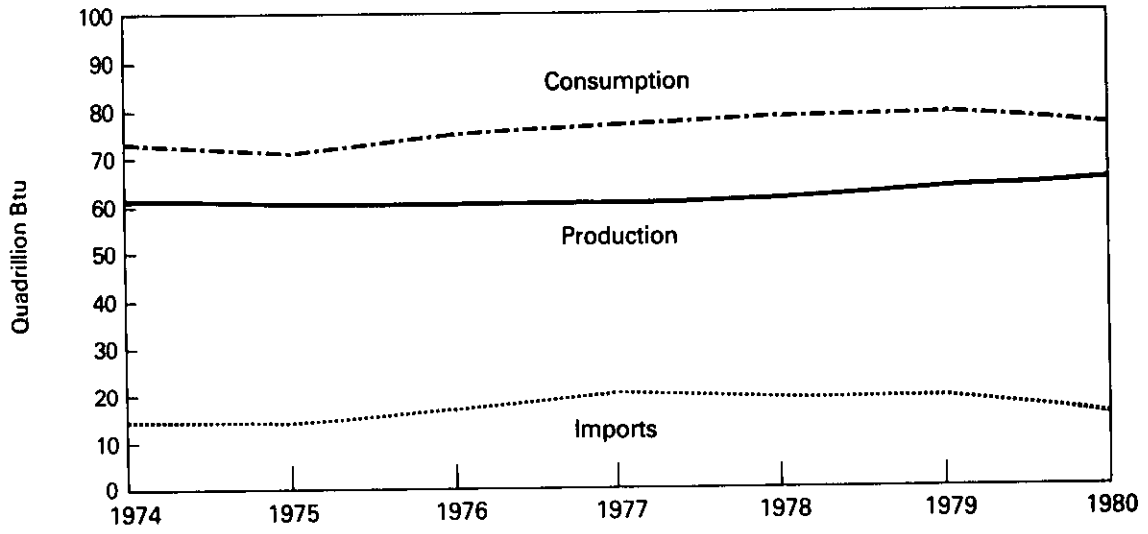
Note: The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces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

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

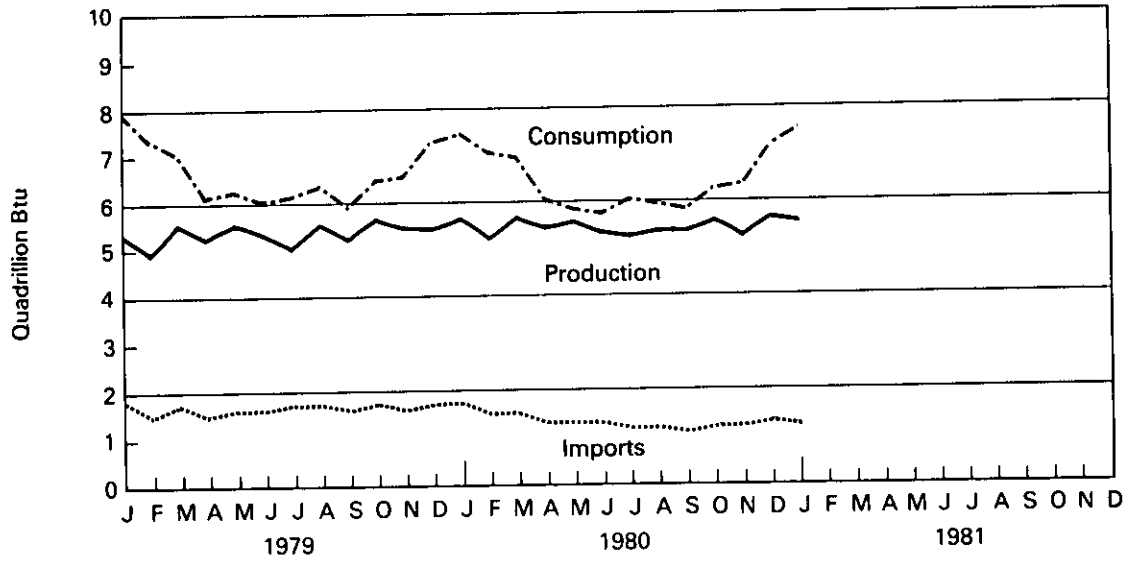
Executive Summary

Energy Summary

Yearly



Monthly



Executive Summary

Production of Energy by Type

| | | Coal ¹ | Crude Oil ² | NGPL ³ | Natural Gas (Dry) | Hydro-electric Power ⁴ | Nuclear Electric Power | Other ⁵ | Total Energy Produced | Yearly Cumulative Energy Produced |
|-------------|--------------|-------------------------------------|------------------------|-------------------|-------------------|-----------------------------------|------------------------|--------------------|-----------------------|-----------------------------------|
| | | Quadrillion (10 ¹⁵) 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 | January | 1.306 | 1.524 | 0.188 | 1.738 | 0.264 | 0.299 | 0.007 | 5.325 | 5.325 |
| | February | 1.238 | 1.385 | 0.173 | 1.624 | 0.225 | 0.279 | 0.006 | 4.930 | 10.255 |
| | March | 1.509 | 1.546 | 0.190 | 1.721 | 0.274 | 0.262 | 0.008 | 5.510 | 15.765 |
| | April | 1.445 | 1.488 | 0.191 | 1.659 | 0.268 | 0.198 | 0.007 | 5.257 | 21.021 |
| | May | 1.570 | 1.546 | 0.192 | 1.683 | 0.306 | 0.162 | 0.007 | 5.466 | 26.487 |
| | June | 1.597 | 1.467 | 0.186 | 1.611 | 0.264 | 0.173 | 0.007 | 5.306 | 31.793 |
| | July | 1.211 | 1.504 | 0.192 | 1.630 | 0.240 | 0.224 | 0.007 | 5.008 | 36.802 |
| | August | 1.618 | 1.537 | 0.193 | 1.656 | 0.224 | 0.261 | 0.008 | 5.498 | 42.299 |
| | September | 1.459 | 1.483 | 0.186 | 1.603 | 0.200 | 0.235 | 0.007 | 5.173 | 47.473 |
| | October | 1.775 | 1.550 | 0.197 | 1.672 | 0.213 | 0.225 | 0.008 | 5.641 | 53.114 |
| | November | 1.548 | 1.524 | 0.199 | 1.691 | 0.236 | 0.207 | 0.008 | 5.413 | 58.527 |
| | December | 1.373 | 1.549 | 0.199 | 1.788 | 0.240 | 0.222 | 0.009 | 5.380 | 63.907 |
| | TOTAL | 17.651 | 18.104 | 2.286 | 20.076 | 2.954 | 2.748 | 0.089 | 63.907 | |
| 1980 | January | 1.543 | 1.555 | 0.202 | 1.782 | 0.267 | 0.213 | 0.008 | 5.569 | 5.569 |
| | February | 1.461 | 1.463 | 0.189 | 1.672 | 0.226 | 0.208 | 0.008 | 5.227 | 10.795 |
| | March | 1.589 | 1.566 | 0.192 | 1.791 | 0.257 | 0.216 | 0.008 | 5.620 | 16.415 |
| | April | 1.590 | 1.512 | 0.193 | 1.635 | 0.272 | 0.202 | 0.008 | 5.412 | 21.827 |
| | May | 1.602 | 1.553 | 0.191 | 1.659 | 0.305 | 0.198 | 0.010 | 5.518 | 27.345 |
| | June | 1.624 | 1.487 | 0.185 | 1.552 | 0.292 | 0.197 | 0.009 | 5.346 | 32.691 |
| | July | 1.384 | 1.538 | 0.186 | 1.582 | 0.258 | 0.226 | 0.010 | 5.183 | R37.875 |
| | August | 1.597 | 1.514 | 0.186 | 1.542 | 0.216 | 0.262 | 0.011 | 5.327 | R43.201 |
| | September | 1.637 | 1.500 | 0.179 | 1.547 | 0.195 | 0.254 | 0.010 | 5.322 | 48.523 |
| | October | 1.722 | R1.535 | R0.184 | 1.615 | 0.189 | 0.264 | 0.011 | R5.519 | R54.042 |
| | November | 1.490 | 1.479 | 0.189 | 1.619 | 0.203 | 0.226 | 0.011 | 5.217 | R59.260 |
| | December | 1.638 | 1.537 | 0.192 | R1.759 | 0.235 | 0.238 | 0.011 | R5.610 | R64.870 |
| | TOTAL | 18.877 | R18.240 | R2.267 | R19.754 | 2.913 | 2.704 | 0.114 | R64.870 | |
| 1981 | January | 1.501 | 1.537 | 0.188 | 1.787 | 0.236 | 0.252 | 0.011 | 5.512 | 5.512 |

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

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

¹Includes bituminous coal, lignite, and anthracite.

²Includes lease condensate.

³Natural gas plant liquids.

⁴Includes industrial and utility production of hydropower.

⁵Includes geothermal power and electricity produced from wood and waste.

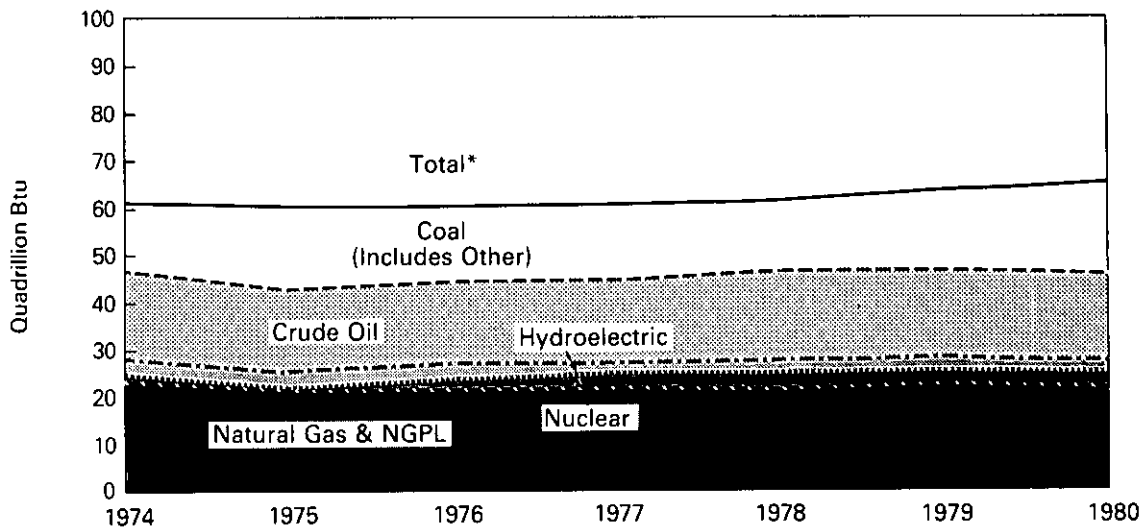
R=Revised data.

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

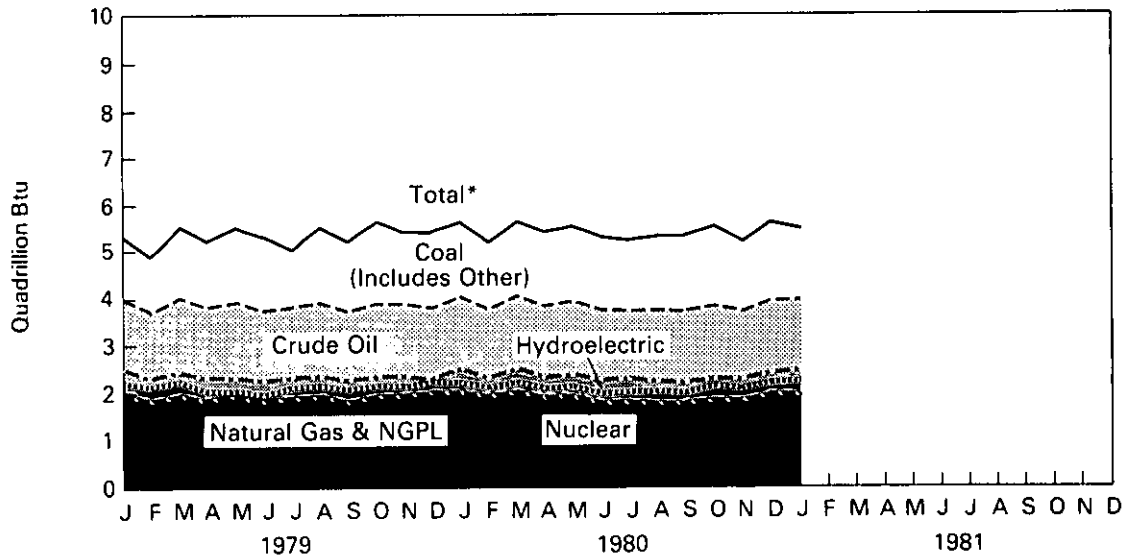
Executive Summary

Production of Energy by Type

Yearly



Monthly



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

Executive Summary

Consumption of Energy by Type

| | | Coal ¹ | Natural Gas (Dry) | Petroleum | Hydro-electric Power ² | Nuclear Electric Power | Net Imports of Coal Coke ³ | Other ⁴ | Total Energy Consumed | Yearly Cumulative Energy Consumed |
|-------------------------------------|-----------|-------------------|-------------------|-----------|-----------------------------------|------------------------|---------------------------------------|--------------------|-----------------------|-----------------------------------|
| Quadrillion (10 ¹⁵) Btu | | | | | | | | | | |
| 1973 | TOTAL | 13.300 | 22.512 | 34.840 | 3.010 | 0.910 | (0.008) | 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 | January | 1.359 | 2.477 | 3.506 | 0.282 | 0.299 | 0.004 | 0.007 | 7.934 | 7.934 |
| | February | 1.209 | 2.250 | 3.275 | 0.241 | 0.279 | 0.003 | 0.006 | 7.263 | 15.197 |
| | March | 1.218 | 1.921 | 3.291 | 0.292 | 0.262 | 0.002 | 0.008 | 6.993 | 22.190 |
| | April | 1.146 | 1.627 | 2.873 | 0.285 | 0.198 | 0.005 | 0.007 | 6.143 | 28.332 |
| | May | 1.200 | 1.459 | 3.032 | 0.324 | 0.162 | 0.011 | 0.007 | 6.194 | 34.527 |
| | June | 1.244 | 1.336 | 2.931 | 0.281 | 0.173 | 0.010 | 0.007 | 5.983 | 40.509 |
| | July | 1.341 | 1.358 | 2.920 | 0.258 | 0.224 | 0.008 | 0.007 | 6.117 | 46.626 |
| | August | 1.349 | 1.370 | 3.091 | 0.242 | 0.261 | 0.009 | 0.008 | 6.330 | 52.956 |
| | September | 1.204 | 1.357 | 2.868 | 0.218 | 0.235 | 0.008 | 0.007 | 5.896 | 58.853 |
| | October | 1.237 | 1.590 | 3.096 | 0.231 | 0.225 | 0.004 | 0.008 | 6.390 | 65.243 |
| | November | 1.243 | 1.805 | 3.018 | 0.254 | 0.207 | 0.000 | 0.008 | 6.535 | 71.779 |
| | December | 1.360 | 2.116 | 3.223 | 0.258 | 0.222 | 0.002 | 0.009 | 7.189 | 78.968 |
| | TOTAL | 15.109 | 20.666 | 37.123 | 3.166 | 2.748 | 0.066 | 0.089 | 78.968 | |
| 1980 | January | 1.412 | 2.327 | 3.177 | 0.285 | 0.213 | 0.003 | 0.008 | 7.425 | 7.425 |
| | February | 1.327 | 2.238 | 2.998 | 0.242 | 0.208 | (0.001) | 0.008 | 7.020 | 14.445 |
| | March | 1.308 | 2.143 | 2.961 | 0.275 | 0.216 | (0.003) | 0.008 | 6.907 | 21.352 |
| | April | 1.169 | 1.601 | 2.756 | 0.289 | 0.202 | (0.005) | 0.008 | 6.021 | R27.373 |
| | May | 1.173 | 1.383 | 2.749 | 0.323 | 0.198 | (0.006) | 0.010 | 5.831 | R33.204 |
| | June | 1.246 | 1.279 | 2.672 | 0.309 | 0.197 | (0.004) | 0.009 | 5.709 | 38.914 |
| | July | R1.404 | 1.328 | 2.719 | 0.276 | 0.226 | (0.004) | 0.010 | R5.959 | R44.873 |
| | August | 1.396 | 1.272 | 2.679 | 0.234 | 0.262 | (0.003) | 0.011 | R5.850 | R50.723 |
| | September | 1.275 | 1.326 | 2.727 | 0.213 | 0.254 | (0.004) | 0.010 | 5.801 | R56.524 |
| | October | R1.271 | 1.574 | R2.880 | 0.207 | 0.264 | (0.006) | 0.011 | R6.200 | R62.725 |
| | November | 1.279 | 1.820 | 2.752 | 0.220 | 0.226 | (0.002) | 0.011 | 6.306 | R69.031 |
| | December | 1.415 | R2.201 | 3.197 | 0.253 | 0.238 | (0.001) | 0.011 | R7.314 | R76.345 |
| | TOTAL | R15.675 | R20.495 | R34.267 | R3.125 | 2.704 | (0.037) | 0.114 | R76.345 | |
| 1981 | January | 1.490 | 2.359 | 3.113 | 0.254 | 0.252 | 0.000 | 0.011 | 7.479 | 7.479 |

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

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

¹Includes bituminous coal, lignite, and anthracite.

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

³Parentheses indicate exports are greater than imports.

⁴Includes geothermal power and electricity produced from wood and waste.

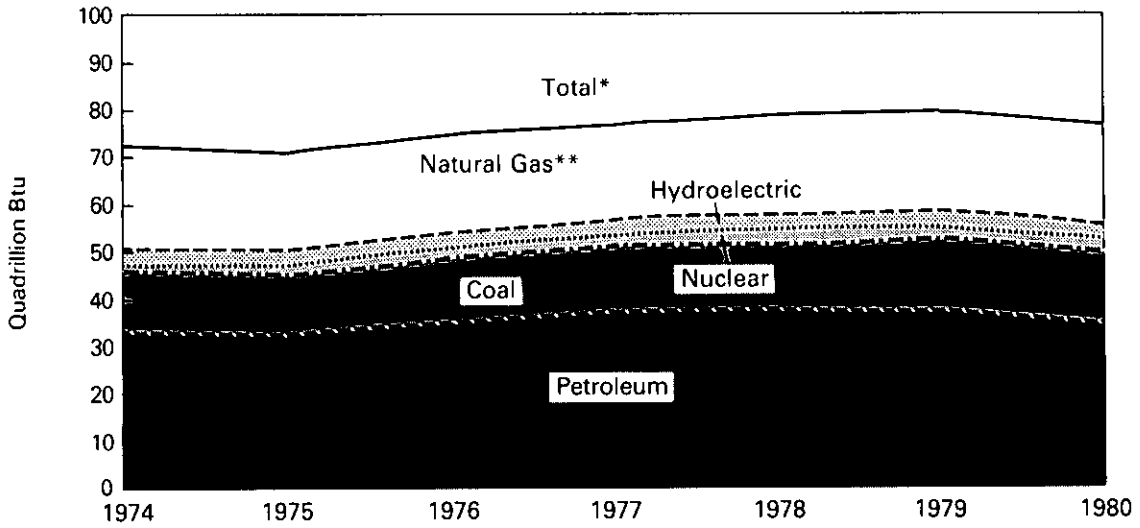
R=Revised data.

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

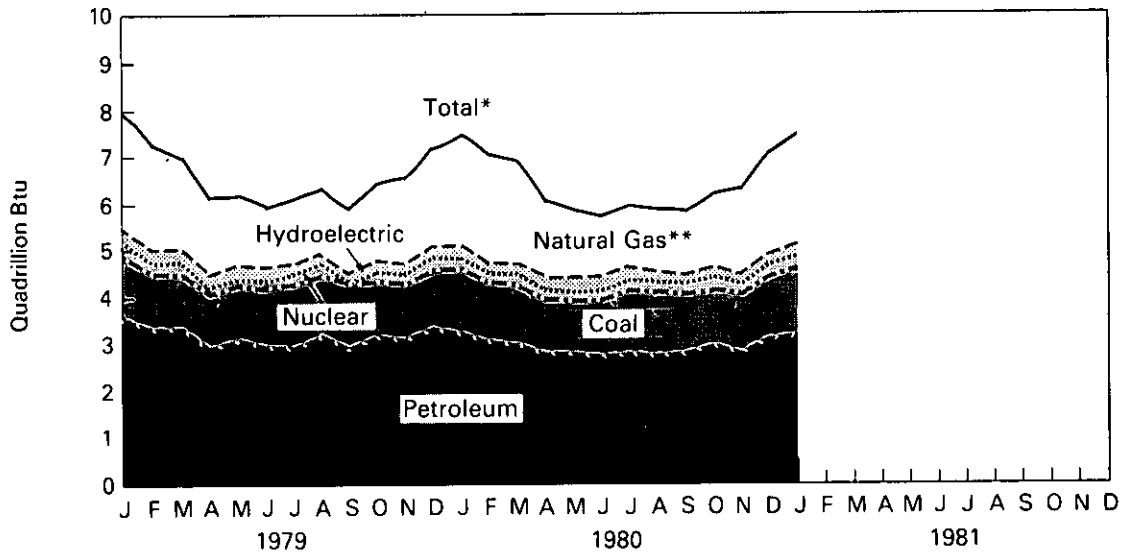
Executive Summary

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.

Executive Summary

Net Imports of Energy by Type¹

| | | Coal ² | Crude Oil ³ | Refined Petroleum Products ⁴ | Natural Gas (Dry) | Electricity ⁵ | Coal Coke | Net Imports | Yearly Cumulative Net Imports of Energy |
|-------------------------------------|--------------|-------------------|------------------------|---|-------------------|--------------------------|----------------|----------------|---|
| Quadrillion (10 ¹²) Btu | | | | | | | | | |
| 1973 | TOTAL | (1.442) | 6.883 | 6.097 | 0.981 | 0.148 | (0.008) | 12.659 | |
| 1974 | TOTAL | (1.585) | 7.389 | 5.273 | 0.907 | 0.133 | 0.059 | 12.175 | |
| 1975 | TOTAL | (1.766) | 8.708 | 3.800 | 0.904 | 0.064 | 0.014 | 11.725 | |
| 1976 | TOTAL | (1.590) | 11.221 | 3.982 | 0.922 | 0.089 | 0.000 | 14.625 | |
| 1977 | TOTAL | (1.424) | 13.921 | 4.321 | 0.981 | 0.182 | 0.015 | 17.995 | |
| 1978 | TOTAL | (1.023) | 13.125 | 3.932 | 0.941 | 0.206 | 0.131 | 17.311 | |
| 1979 | January | (0.093) | 1.215 | 0.361 | 0.100 | 0.018 | 0.004 | 1.606 | 1.606 |
| | February | (0.067) | 1.014 | 0.304 | 0.096 | 0.016 | 0.003 | 1.366 | 2.972 |
| | March | (0.122) | 1.082 | 0.386 | 0.112 | 0.018 | 0.002 | 1.478 | 4.450 |
| | April | (0.138) | 1.037 | 0.252 | 0.105 | 0.017 | 0.005 | 1.279 | 5.729 |
| | May | (0.165) | 1.097 | 0.283 | 0.103 | 0.018 | 0.011 | 1.347 | 7.076 |
| | June | (0.156) | 1.118 | 0.252 | 0.100 | 0.017 | 0.010 | 1.340 | 8.416 |
| | July | (0.168) | 1.145 | 0.308 | 0.102 | 0.018 | 0.008 | 1.414 | 9.830 |
| | August | (0.160) | 1.182 | 0.281 | 0.097 | 0.018 | 0.009 | 1.426 | 11.256 |
| | September | (0.134) | 1.090 | 0.236 | 0.097 | 0.017 | 0.008 | 1.314 | 12.570 |
| | October | (0.197) | 1.209 | 0.279 | 0.108 | 0.018 | 0.004 | 1.420 | 13.990 |
| | November | (0.163) | 1.040 | 0.290 | 0.115 | 0.017 | 0.000 | 1.299 | 15.290 |
| | December | (0.166) | 1.099 | 0.370 | 0.110 | 0.018 | 0.002 | 1.433 | 16.723 |
| | TOTAL | (1.729) | 13.328 | 3.603 | 1.243 | 0.212 | 0.066 | 16.723 | |
| 1980 | January | (0.117) | 1.089 | 0.316 | 0.118 | 0.018 | 0.003 | 1.428 | 1.428 |
| | February | (0.104) | 0.948 | 0.284 | 0.112 | 0.017 | (0.001) | 1.256 | 2.683 |
| | March | (0.150) | 0.984 | 0.266 | 0.107 | 0.018 | (0.003) | 1.222 | 3.906 |
| | April | (0.202) | 0.931 | 0.207 | 0.088 | 0.017 | (0.005) | 1.036 | 4.941 |
| | May | (0.227) | 0.858 | 0.218 | 0.067 | 0.018 | (0.006) | 0.928 | 5.870 |
| | June | (0.237) | 0.892 | 0.196 | 0.059 | 0.017 | (0.004) | 0.922 | 6.792 |
| | July | (0.221) | 0.794 | 0.199 | 0.060 | 0.018 | (0.004) | 0.845 | 7.637 |
| | August | (0.246) | 0.837 | 0.205 | 0.057 | 0.018 | (0.003) | 0.868 | 8.505 |
| | September | (0.226) | 0.765 | 0.216 | 0.056 | 0.017 | (0.004) | 0.824 | 9.329 |
| | October | (0.251) | R0.791 | R0.236 | 0.073 | 0.018 | (0.006) | R0.860 | R10.189 |
| | November | (0.242) | 0.745 | 0.245 | 0.085 | 0.017 | (0.002) | 0.848 | R11.037 |
| | December | (0.220) | 0.835 | 0.255 | 0.092 | 0.018 | (0.001) | 0.979 | R12.016 |
| | TOTAL | (2.444) | R10.468 | R2.842 | 0.975 | 0.212 | (0.037) | R12.016 | |
| 1981 | January | (0.155) | 0.777 | 0.245 | 0.084 | 0.018 | 0.000 | 0.967 | 0.967 |

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

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

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

²Includes bituminous coal, lignite, and anthracite.

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

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

⁵Only 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.

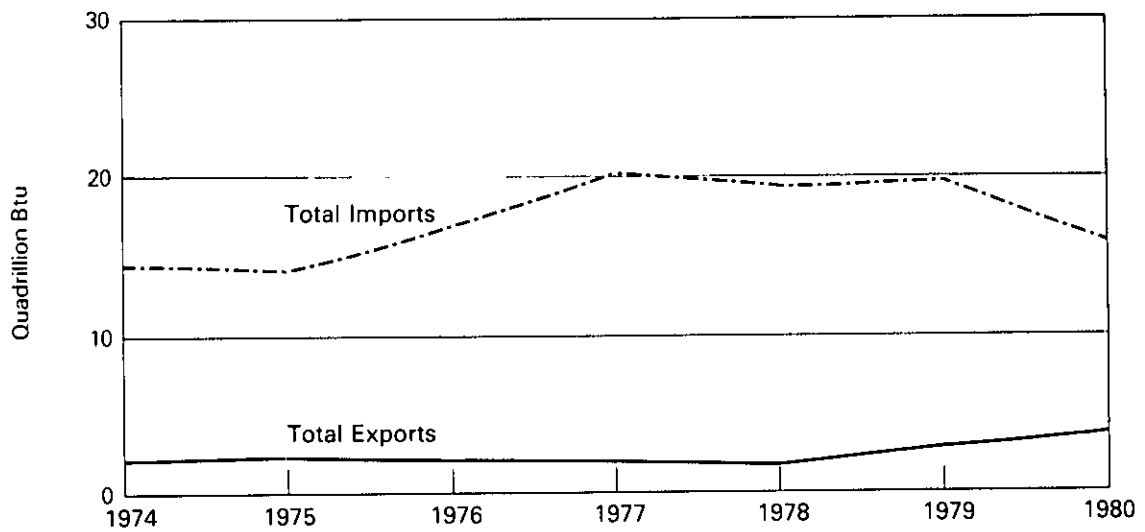
R=Revised data.

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

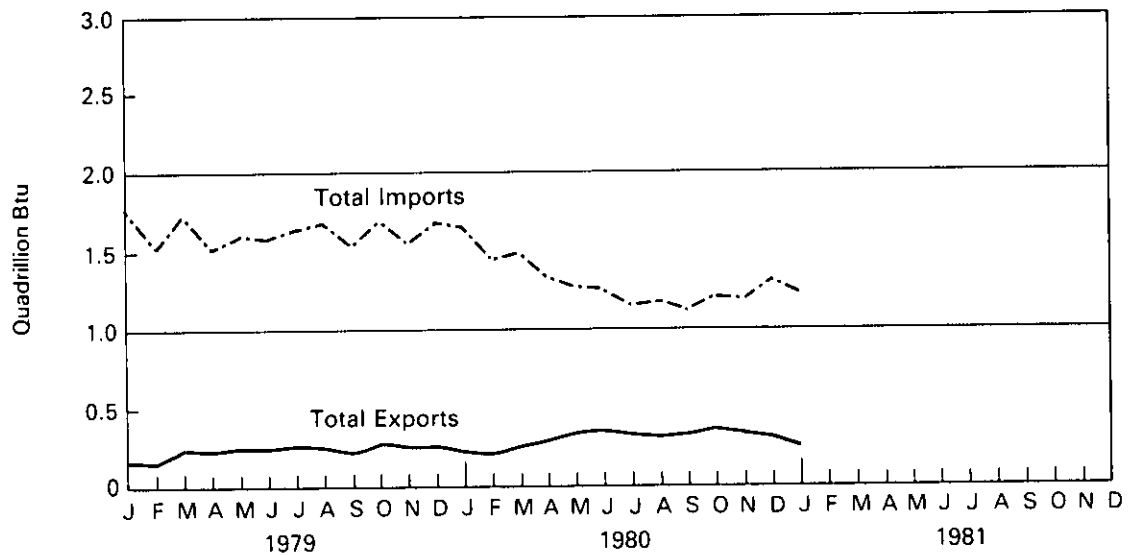
Executive Summary

Energy Imports and Exports

Yearly



Monthly



Executive Summary

Merchandise Trade Value¹

| | Exports | | | | Imports | | | |
|-------------------|--------------|-------------------------------|---|----------------|---------------|-------------------------------|---|----------------|
| | Energy | Manu- factured Products | Agricultural, Chemical, and Other | Total | Energy | Manu- factured Products | Agricultural, Chemical, and Other | Total |
| Million dollars | | | | | | | | |
| 1973 TOTAL | 1,671 | 38,982 | 29,643 | 70,296 | 8,173 | 42,537 | 19,122 | 69,832 |
| 1974 TOTAL | 3,444 | 54,704 | 39,085 | 97,233 | 25,454 | 51,205 | 23,989 | 100,648 |
| 1975 TOTAL | 4,470 | 62,260 | 39,832 | 106,562 | 26,476 | 47,384 | 22,714 | 96,574 |
| 1976 TOTAL | 4,226 | 67,282 | 42,159 | 113,667 | 33,996 | 60,004 | 27,010 | 121,010 |
| 1977 TOTAL | 4,184 | 69,339 | 45,484 | 119,007 | 44,537 | 71,583 | 31,550 | 147,670 |
| 1978 TOTAL | 3,881 | 81,850 | 55,310 | 141,041 | 42,096 | 93,887 | 35,996 | 171,979 |
| 1979 | | | | | | | | |
| January | 350 | 7,035 | 4,964 | 12,349 | 4,228 | 8,392 | 3,227 | 15,847 |
| February | 292 | 7,446 | 4,966 | 12,705 | 3,527 | 7,480 | 2,772 | 13,779 |
| March | 436 | 8,843 | 6,020 | 15,299 | 3,948 | 8,432 | 3,385 | 15,765 |
| April | 467 | 8,038 | 5,506 | 14,011 | 4,241 | 8,550 | 3,381 | 16,172 |
| May | 471 | 8,474 | 5,584 | 14,530 | 4,165 | 8,690 | 3,655 | 16,510 |
| June | 500 | 8,527 | 6,056 | 15,083 | 4,528 | 9,247 | 3,655 | 17,429 |
| July | 534 | 7,880 | 6,078 | 14,492 | 5,074 | 8,778 | 3,261 | 17,113 |
| August | 501 | 7,981 | 6,236 | 14,718 | 5,460 | 8,988 | 3,482 | 17,931 |
| September | 438 | 8,086 | 6,144 | 14,669 | 6,084 | 8,539 | 3,455 | 18,078 |
| October | 567 | 9,070 | 7,353 | 16,991 | 6,549 | 9,253 | 3,430 | 19,233 |
| November | 522 | 8,849 | 7,578 | 16,948 | 5,409 | 9,363 | 3,883 | 18,656 |
| December | 543 | 9,050 | 7,039 | 16,632 | 6,783 | 9,037 | 3,924 | 19,744 |
| TOTAL | 5,621 | 99,279 | 73,527 | 178,426 | 59,998 | 104,748 | 41,510 | 206,256 |
| 1980 | | | | | | | | |
| January | 481 | 8,837 | 6,696 | 16,015 | 6,559 | 9,772 | 3,801 | 20,132 |
| February | 436 | 9,684 | 6,556 | 16,675 | 7,742 | 9,226 | 3,671 | 20,639 |
| March | 567 | 10,870 | 7,865 | 19,302 | 7,392 | 9,801 | 3,848 | 21,041 |
| April | 631 | 10,481 | 7,691 | 18,803 | 6,346 | 9,543 | 3,737 | 19,626 |
| May | 737 | 10,574 | 7,079 | 18,390 | 6,895 | 9,791 | 3,818 | 20,503 |
| June | 730 | 10,570 | 7,000 | 18,300 | 6,938 | 9,745 | 3,837 | 20,520 |
| July | 707 | 9,669 | 6,491 | 16,867 | 5,792 | 9,797 | 3,736 | 19,324 |
| August | 703 | 9,974 | 6,947 | 17,623 | 6,236 | 9,195 | 3,428 | 18,859 |
| September | 710 | 10,158 | 6,632 | 17,500 | 5,831 | 9,442 | 3,806 | 19,079 |
| October | 755 | 11,271 | 7,483 | 19,509 | 6,231 | 10,067 | 3,970 | 20,268 |
| November | 785 | 10,415 | 7,044 | 18,244 | 5,880 | 9,862 | 3,792 | 19,533 |
| December | 741 | 10,649 | 7,820 | 19,210 | 7,218 | 10,208 | 3,886 | 21,312 |
| TOTAL | 7,982 | 123,151 | 85,303 | 216,436 | 79,058 | 116,447 | 45,330 | 240,834 |
| 1981 | | | | | | | | |
| January | 620 | 9,431 | 7,546 | 17,596 | 8,014 | 10,539 | 4,024 | 22,577 |
| February | 705 | 10,498 | 7,311 | 18,515 | 7,943 | 9,269 | 3,912 | 21,124 |
| TOTAL | 1,325 | 19,929 | 14,857 | 36,111 | 15,957 | 19,808 | 7,936 | 43,701 |

Note: The U.S. trade statistics include the 50 States, the District of Columbia, and Puerto Rico, except data on shipments between the United States, Puerto Rico, and U.S. possessions, between U.S. possessions and foreign countries, shipments to U.S. Armed Forces and diplomatic missions abroad for their own use and American goods returned to the United States by its Armed Forces, intransit shipments, etc. Beginning with January 1981 statistics, data on the U.S. Virgin Islands' trade with foreign countries are included.

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

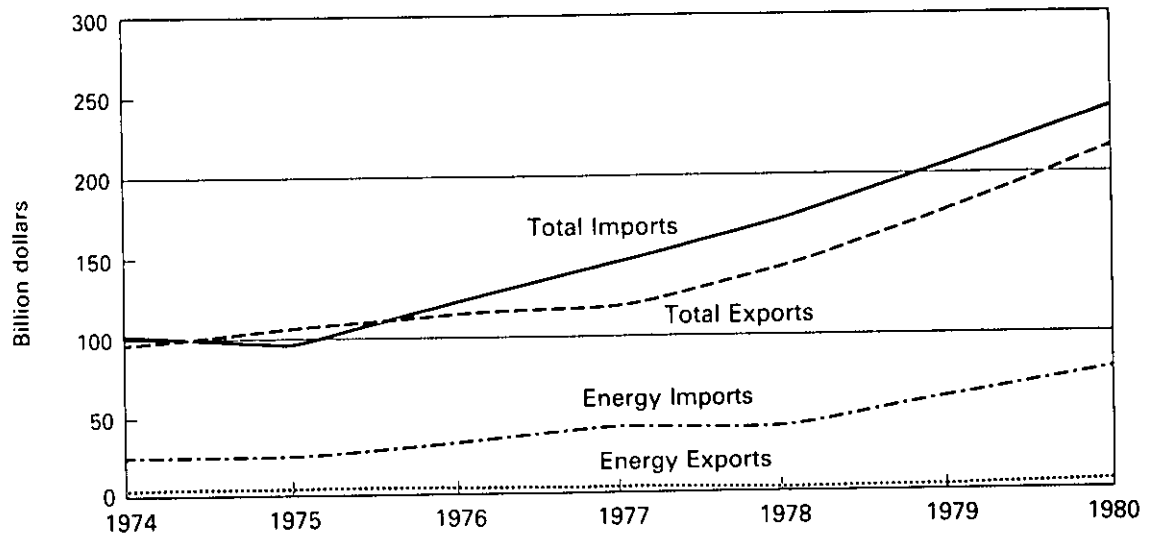
¹Data presented are free alongside ship (f.a.s.) basis and are unadjusted for seasonality and working days. Beginning January 1979, the data excludes U.S. Department of Defense Military Assistance Program Grant-Aid Shipments. Commodity categories shown above include groups of BOC sections as follows: Energy—BOC section 3. (Mineral fuels, lubricants, and related materials). Manufactured products—BOC sections 6. (Manufactured goods classified chiefly by material), 7. (Machinery and transport equipment), and 8. (Miscellaneous manufactured articles, not elsewhere classified). Agricultural, chemical, and other—BOC sections 0. (Food and live animals), 1. (Beverages and tobacco), 2. (Crude material inedible, except fuels), 4. (Animal and vegetable fats and oils), 5. (Chemicals), and 9. (Commodities and transactions not classified according to kind).

Source: • U.S. Department of Commerce, Bureau of the Census (BOC) publication FT 900, *Summary of U.S. Export and Import Merchandise Trade*.

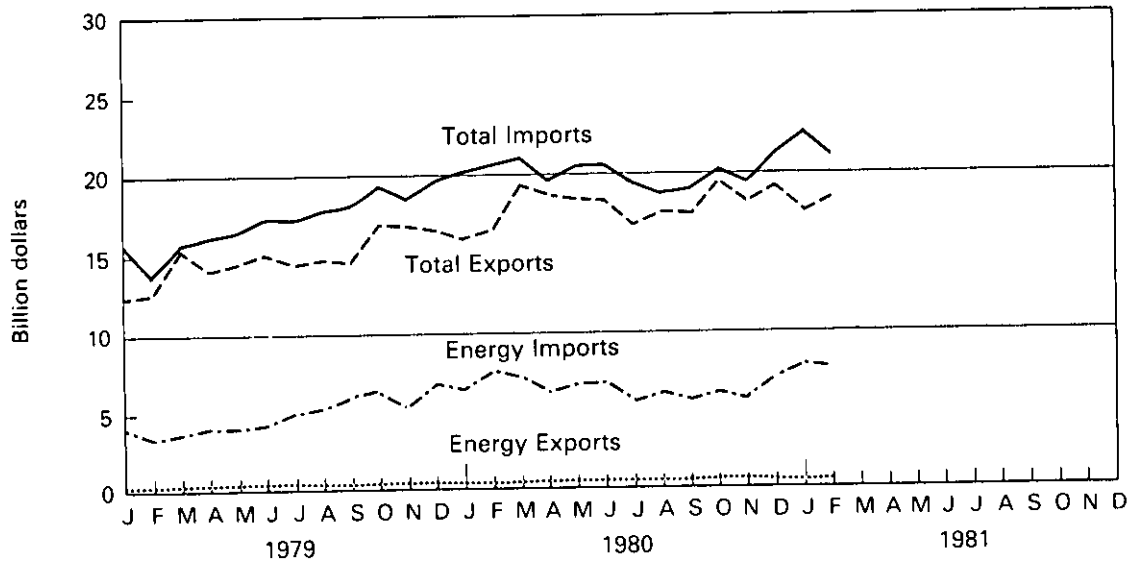
Executive Summary

Merchandise Trade Value

Yearly



Monthly



Executive Summary

Heating Degree-Days¹

| Petroleum Administration For Defense (PAD) Districts | February 23 through March 29 | | | | | Cumulative July 1 through March 29 | | | | |
|---|------------------------------|-------------------|----------------|-------------------------------|----------------|---------------------------------------|----------------------|--------------|-------------------------------|--------------|
| | 1981 | 1980 ² | | Normal (1941-70) ² | | 1980-81 | 1979-80 ² | | Normal (1941-70) ² | |
| PAD District I | 775 | 817 | (-5.1) | 794 | (-2.4) | 4,322 | 3,958 | (9.2) | 4,031 | (7.2) |
| New England | 984 | 1,083 | (-9.1) | 1,058 | (-7.0) | 5,617 | 5,166 | (8.7) | 5,299 | (6.0) |
| Conn., Maine, Mass., N.H., R.I., Vt. | | | | | | | | | | |
| Middle Atlantic | 923 | 977 | (-5.5) | 949 | (-2.7) | 5,063 | 4,639 | (9.1) | 4,741 | (6.8) |
| Del., Md., N.J., N.Y., Pa. | | | | | | | | | | |
| Lower Atlantic | 461 | 460 | (0.3) | 446 | (3.3) | 2,641 | 2,403 | (9.9) | 2,406 | (9.8) |
| Fla., Ga., N.C., S.C., Va., W. Va. | | | | | | | | | | |
| PAD District II | 878 | 1,092 | (-19.6) | 1,014 | (-13.4) | 5,266 | 5,360 | (-1.8) | 5,324 | (-1.1) |
| Ill., Ind., Iowa, Kans., Ky., Mich., Minn., Mo., Nebr., N. Dak., Ohio, Okla., S. Dak., Tenn., Wisc. | | | | | | | | | | |
| Pad District III | 298 | 351 | (-15.1) | 376 | (-20.7) | 2,223 | 2,180 | (1.9) | 2,167 | (2.6) |
| Ala., Ark., La., Miss., N. Mex., Tex. | | | | | | | | | | |
| PAD District IV | 786 | 907 | (-13.4) | 1,011 | (-22.2) | 4,615 | 5,192 | (-11.1) | 5,434 | (-15.1) |
| Colo., Idaho, Mont., Utah, Wyo. | | | | | | | | | | |
| PAD District V | 352 | 362 | (-2.6) | 434 | (-18.7) | 1,795 | 1,865 | (-3.8) | 2,361 | (-24.0) |
| Ariz., Calif., Nev., Oreg., Wash. | | | | | | | | | | |
| U.S. AVERAGE³ | 693 | 789 | (-12.2) | 771 | (-10.1) | 4,032 | 3,940 | (2.3) | 4,031 | (0.0) |

¹See Explanatory Note 6 for explanation of degree-days.

²Percentage change in parentheses.

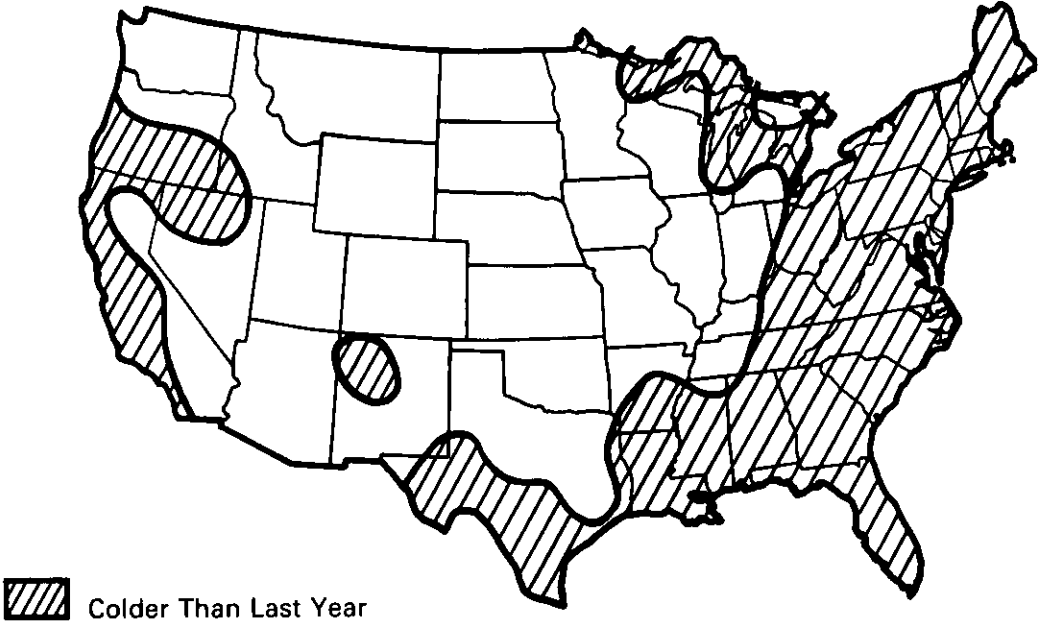
³Excludes Alaska and Hawaii.

Executive Summary

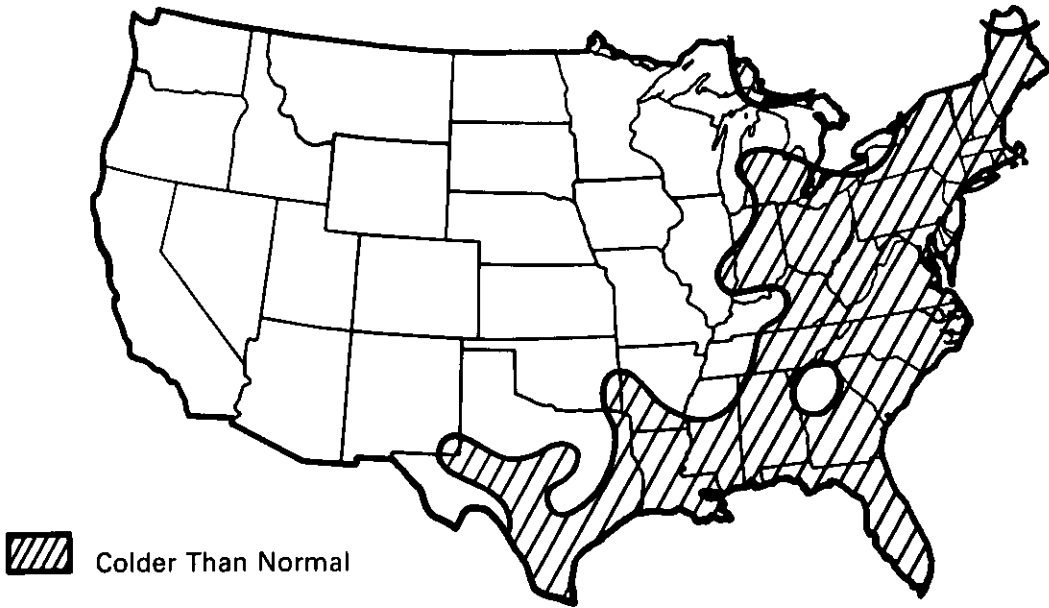
Heating Degree-Days

Heating Degree-Days Accumulated from July 1 through March 29

Departure from Last Year



Departure from Normal



Source: • Department of Commerce – NOAA.

Executive Summary

Energy Indicators—

| Energy Consumption per GNP Dollar | | | | | | U.S. Dependence on Petroleum Imports ³ | | | |
|-----------------------------------|----------------|--|-----------------------------------|--------------------------------------|---------------------------|---|---------------------|---------------------|--------------------------------------|
| | | Energy Consumption per GNP Dollar ¹ | Yearly Rate of Energy Consumption | Gross National Product (Annual rate) | | Direct Imports | | | Domestic Petroleum Products Supplied |
| | | | | Current Dollars | 1972 Dollars ² | From Arab/OPEC Countries | From OPEC Countries | Total All Countries | |
| ANNUAL 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 | 1st Qtr | 60.8 | 89.993 | 2.341 | 1.480 | 3.26 | 5.88 | 8.84 | 20.37 |
| | 2nd Qtr | 49.9 | 73.477 | 2.375 | 1.473 | 3.17 | 5.45 | 8.10 | 17.68 |
| | 3rd Qtr | 48.9 | 72.778 | 2.444 | 1.488 | 2.99 | 5.74 | 8.39 | 17.57 |
| | 4th Qtr | 53.5 | 79.804 | 2.496 | 1.491 | 2.81 | 5.48 | 8.49 | 18.47 |
| | AVERAGE | 53.2 | 78.968 | 2.414 | 1.483 | 3.06 | 5.64 | 8.46 | 18.51 |
| 1980 | 1st Qtr | 57.2 | 85.877 | 2.572 | 1.502 | 3.00 | 4.97 | 7.90 | 18.27 |
| | 2nd Qtr | 48.3 | 70.630 | 2.565 | 1.463 | 2.59 | 4.28 | 6.81 | 16.36 |
| | 3rd Qtr | 47.6 | 70.053 | 2.637 | 1.472 | 2.26 | 3.74 | 6.11 | 16.07 |
| | 4th Qtr | 52.7 | 78.547 | 2.741 | 1.490 | 2.25 | 3.95 | 6.36 | 17.43 |
| | AVERAGE | 51.5 | 76.267 | 2.629 | 1.482 | 2.52 | 4.23 | 6.79 | 17.03 |

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

¹Thousand Btu per 1972 constant dollar.

²Current dollars converted to 1972 constant dollars by the formula:

$$\text{Constant 1972 dollars} = \frac{\text{Current dollars in year N}}{\text{Gross National Product implicit price deflator in year N}} \times 100$$

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.

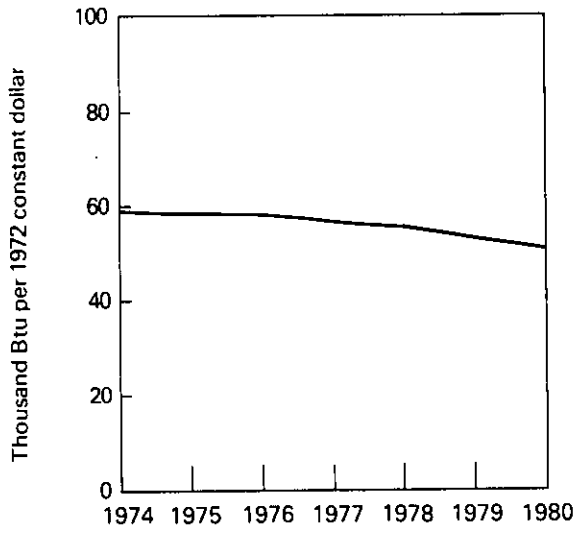
³Beginning in October 1977 Strategic Petroleum Reserve imports are included.

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.

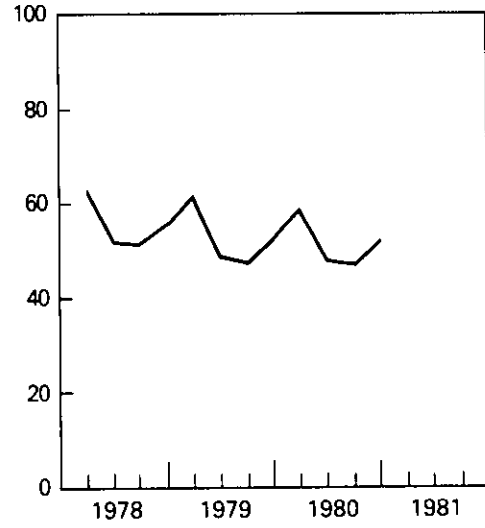
Executive Summary

Energy Consumption per GNP Dollar

Yearly

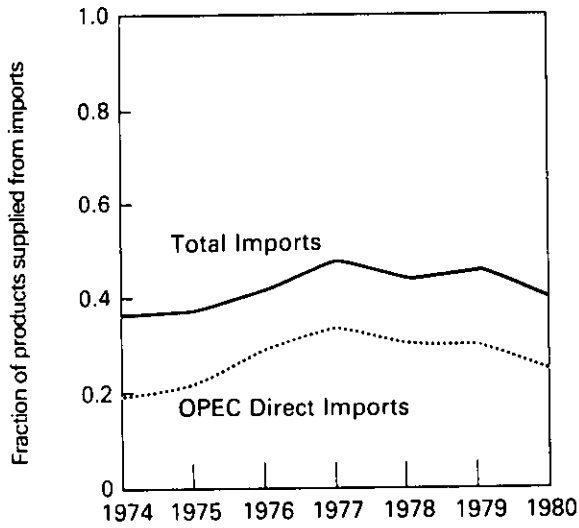


Quarterly

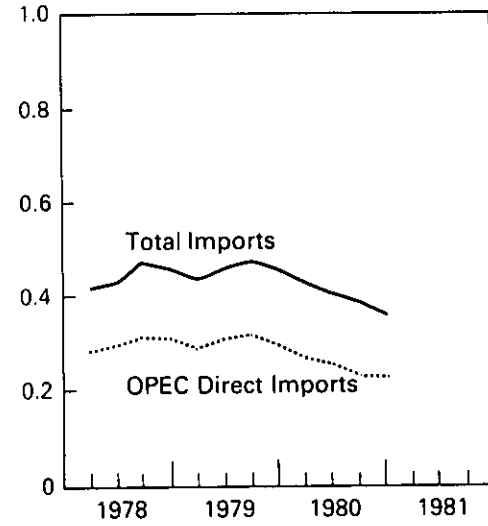


U.S. Dependence on Petroleum Imports

Yearly



Quarterly

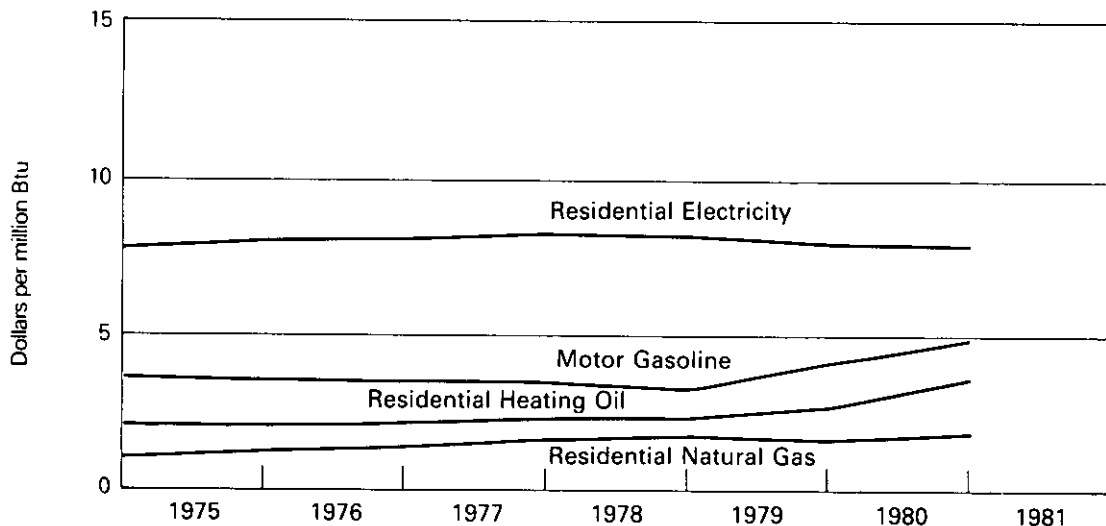


Executive Summary

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

| | | Leaded Regular Motor Gasoline | | Residential Heating Oil | | Residential Natural Gas | | Residential Electricity | |
|------|---------|-------------------------------|----------|-------------------------|----------|-------------------------|----------|-------------------------|----------|
| | | cent/gal | \$/MMBtu | cent/gal | \$/MMBtu | cent/Mcf | \$/MMBtu | cent/kWh | \$/MMBtu |
| 1973 | AVERAGE | NA | NA | NA | NA | 121.2 | 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 Qtr | 60.9 | 4.87 | 49.8 | 3.59 | 190.9 | 1.88 | 2.53 | 7.42 |
| | 2nd Qtr | 62.1 | 4.97 | 49.8 | 3.59 | 197.2 | 1.94 | 2.75 | 8.06 |
| | 3rd Qtr | 60.6 | 4.85 | 49.2 | 3.55 | 207.6 | 2.04 | 2.86 | 8.38 |
| | 4th Qtr | 58.2 | 4.65 | 50.5 | 3.64 | 198.9 | 1.95 | 2.73 | 8.00 |
| | AVERAGE | 60.5 | 4.84 | 49.6 | 3.58 | 198.8 | 1.95 | 2.72 | 7.97 |

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, "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 quarterly and 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."

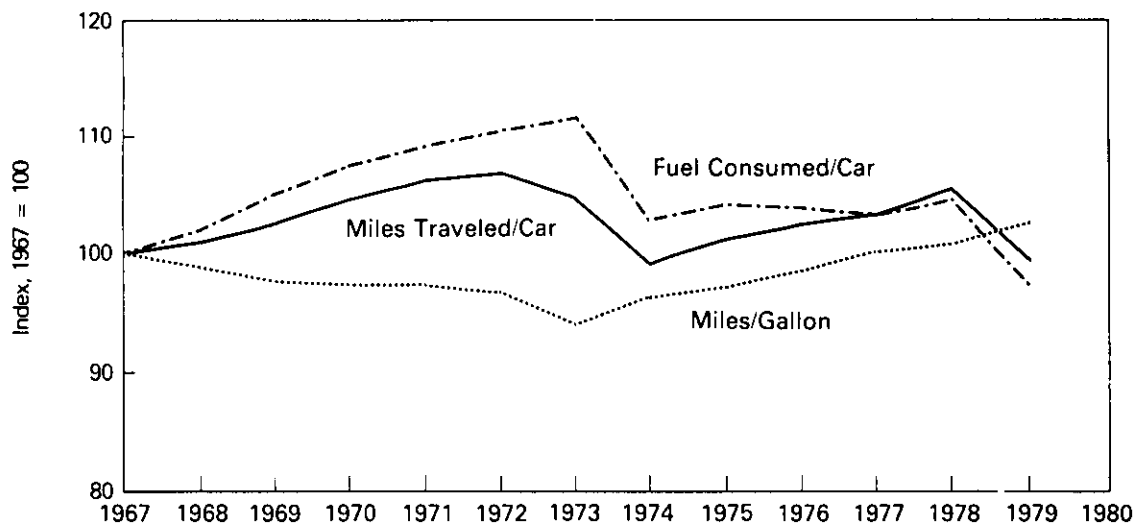
• Deflator—The Consumer Price Index.

Executive Summary

Energy Indicator — U.S. Passenger Car Efficiency

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

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 January 1981 rose to 7.5 quadrillion Btu, 0.7 percent above January 1980 and a 2.3 percent increase from the December 1980 consumption level.

The Residential and Commercial Sector consumption was 3.1 quadrillion Btu in January 1981, 14.9 percent higher than December 1980 and 8.8 percent higher than the amount consumed during January 1980. The Residential and Commercial Sector consumed 42.0 percent of the total consumption for January 1981, up from the sector's 38.9 percent share in January 1980.

The Industrial Sector consumption was 2.7 quadrillion Btu in January 1981, down 8.0 percent from December 1980 and down 7.4 percent from the consumption level in January 1980. The Industrial Sector consumed

35.9 percent of the January 1981 total, as compared to the 39.1 percent share in January 1980.

The Transportation Sector consumption was 1.6 quadrillion Btu in January 1981, down 0.6 percent from December 1980 and up 0.9 percent from the consumption level in January 1980. This sector consumed 22.0 percent of the total for both 1981 and 1980.

The Electric Utilities consumption was an estimated 2.2 quadrillion Btu of energy in January 1981, 3.7 percent higher than in the previous month, and 1.0 percent higher than the energy consumed in January 1980. Coal contributed 52.8 percent of the energy consumed by Electric Utilities in January 1981, while petroleum contributed 13.0 percent, nuclear power 11.6 percent, hydroelectric power 11.5 percent, natural gas 10.7 percent, and geothermal, wood and waste 0.5 percent.

Consumption

Energy Consumption Summary for January 1981
Quadrillion (10¹⁵) Btu

| Primary Energy Source | Sector | | | | TOTAL |
|------------------------------|----------------------------|--------------|----------------|--------------------|--------------|
| | Residential and Commercial | Industrial | Transportation | Electric Utilities | |
| Coal | 0.030 | 0.311 | 0.000 | 1.149 | 1.490 |
| Natural Gas (dry) | 1.291 | 0.766 | 0.070 | 0.232 | 2.359 |
| Petroleum | 0.424 | 0.832 | 1.574 | 0.283 | 3.113 |
| Hydroelectric | 0.000 | 0.003 | 0.000 | 0.251 | 0.254 |
| Nuclear | 0.000 | 0.000 | 0.000 | 0.252 | 0.252 |
| Net Coke Imports | 0.000 | (0.000) | 0.000 | 0.000 | (0.000) |
| Other | 0.000 | 0.000 | 0.000 | 0.011 | 0.011 |
| TOTAL PRIMARY ENERGY | 1.745 | 1.911 | 1.644 | 2.178 | 7.479 |
| Electricity Sales | 0.413 | 0.229 | 0.001 | (0.642) | |
| Net Energy Consumption | 2.158 | 2.140 | 1.645 | | 5.943 |
| Electrical Energy Losses | 0.986 | 0.547 | 0.002 | (1.535) | 1.535 |
| TOTAL ENERGY CONSUMED | 3.144 | 2.687 | 1.647 | | 7.479 |

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 on the last page of this section.

Consumption

Consumption of Energy by the End-Use Sector¹

| | | Residential and Commercial | Industrial | Transportation | Total Energy Consumed |
|-------------------------------------|--------------|-------------------------------|----------------|----------------|-----------------------------|
| Quadrillion (10 ¹⁵) 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 |
| 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 | January | 3.212 | 2.930 | 1.791 | 7.934 |
| | February | 3.064 | 2.495 | 1.703 | 7.263 |
| | March | 2.678 | 2.542 | 1.772 | 6.993 |
| | April | 2.150 | 2.395 | 1.598 | 6.143 |
| | May | 1.934 | 2.589 | 1.672 | 6.194 |
| | June | 1.866 | 2.509 | 1.608 | 5.983 |
| | July | 1.953 | 2.560 | 1.604 | 6.117 |
| | August | 2.043 | 2.598 | 1.689 | 6.330 |
| | September | 1.848 | 2.489 | 1.559 | 5.896 |
| | October | 1.949 | 2.777 | 1.663 | 6.390 |
| | November | 2.138 | 2.796 | 1.601 | 6.535 |
| | December | 2.627 | 2.872 | 1.690 | 7.189 |
| | TOTAL | 27.462 | 31.551 | 19.950 | 78.968 |
| 1980 | January | 2.890 | R2.901 | 1.633 | 7.425 |
| | February | 2.848 | 2.602 | 1.569 | 7.020 |
| | March | 2.663 | R2.646 | 1.597 | 6.907 |
| | April | 2.124 | 2.348 | 1.548 | 6.021 |
| | May | 1.880 | 2.409 | 1.542 | 5.831 |
| | June | 1.906 | 2.317 | 1.486 | 5.709 |
| | July | R2.108 | R2.305 | 1.546 | R5.959 |
| | August | 2.096 | 2.241 | 1.513 | R5.850 |
| | September | 1.958 | 2.359 | 1.483 | 5.801 |
| | October | R1.959 | R2.662 | R1.580 | R6.200 |
| | November | R2.141 | R2.680 | R1.485 | 6.306 |
| | December | R2.736 | R2.920 | R1.657 | R7.314 |
| | TOTAL | R27.310 | R30.391 | R18.639 | R76.345 |
| 1981 | January | 3.144 | 2.687 | 1.647 | 7.479 |

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

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

¹See 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.

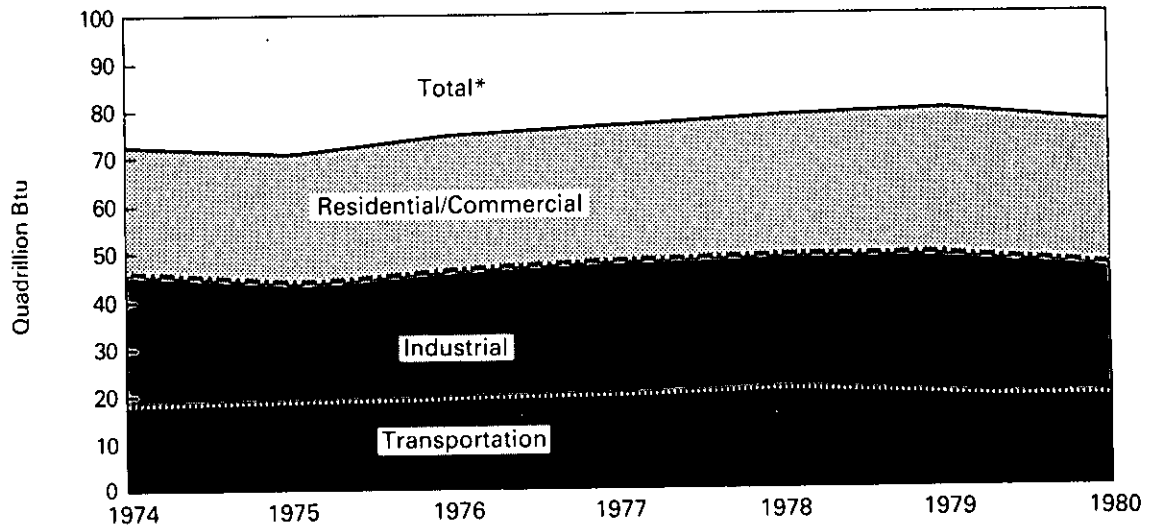
R=Revised data.

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

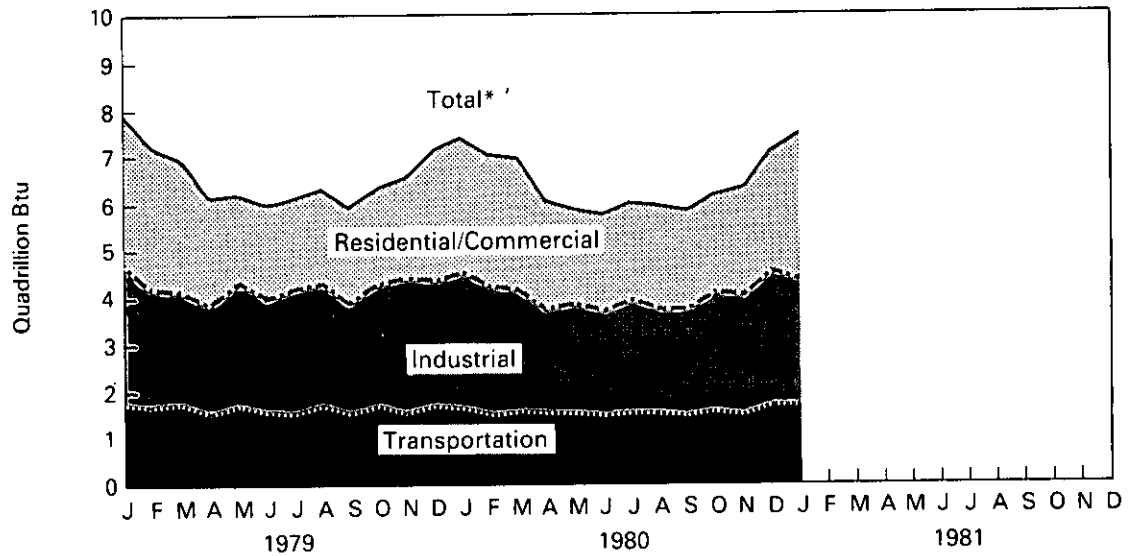
Consumption

Consumption of Energy by End-Use Sector

Yearly



Monthly



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

Consumption

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 (10 ¹²) 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 | January | 0.032 | 1.308 | 0.490 | 0.398 | 0.985 | 3.212 | 3.212 |
| | February | 0.020 | 1.347 | 0.455 | 0.388 | 0.855 | 3.064 | 6.276 |
| | March | 0.015 | 1.027 | 0.411 | 0.352 | 0.873 | 2.678 | 8.955 |
| | April | 0.013 | 0.737 | 0.356 | 0.312 | 0.731 | 2.150 | 11.104 |
| | May | 0.012 | 0.466 | 0.401 | 0.299 | 0.756 | 1.934 | 13.038 |
| | June | 0.013 | 0.326 | 0.400 | 0.323 | 0.804 | 1.866 | 14.904 |
| | July | 0.012 | 0.263 | 0.402 | 0.365 | 0.911 | 1.953 | 16.857 |
| | August | 0.011 | 0.246 | 0.438 | 0.393 | 0.956 | 2.043 | 18.900 |
| | September | 0.014 | 0.252 | 0.398 | 0.370 | 0.815 | 1.848 | 20.748 |
| | October | 0.020 | 0.367 | 0.443 | 0.321 | 0.798 | 1.949 | 22.697 |
| | November | 0.023 | 0.613 | 0.406 | 0.315 | 0.781 | 2.138 | 24.836 |
| | December | 0.025 | 0.940 | 0.428 | 0.348 | 0.885 | 2.627 | 27.462 |
| | TOTAL | 0.210 | 7.891 | 5.027 | 4.184 | 10.150 | 27.462 | |
| 1980 | January | 0.025 | 1.113 | 0.410 | 0.381 | 0.960 | 2.890 | 2.890 |
| | February | 0.022 | 1.191 | 0.384 | 0.375 | 0.876 | 2.848 | R5.739 |
| | March | 0.016 | 1.053 | 0.359 | 0.358 | R0.877 | 2.663 | R8.402 |
| | April | 0.014 | 0.716 | 0.312 | 0.319 | 0.763 | 2.124 | R10.527 |
| | May | 0.009 | 0.450 | 0.331 | 0.298 | 0.793 | 1.880 | R12.407 |
| | June | 0.007 | 0.329 | 0.343 | 0.334 | 0.893 | 1.906 | R14.312 |
| | July | 0.009 | 0.259 | 0.355 | 0.410 | R1.075 | R2.108 | R16.420 |
| | August | 0.008 | 0.240 | 0.350 | 0.439 | 1.059 | 2.096 | R18.516 |
| | September | 0.011 | 0.252 | 0.370 | 0.410 | 0.915 | 1.958 | R20.474 |
| | October | 0.021 | 0.370 | R0.396 | 0.343 | R0.829 | R1.959 | R22.433 |
| | November | 0.023 | 0.639 | R0.359 | 0.322 | 0.798 | R2.141 | R24.574 |
| | December | 0.030 | 1.025 | R0.403 | 0.364 | R0.913 | R2.736 | R27.310 |
| | TOTAL | R0.195 | 7.637 | R4.373 | 4.354 | R10.751 | R27.310 | |
| 1981 | January | 0.030 | 1.291 | 0.424 | 0.413 | 0.986 | 3.144 | 3.144 |

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.

Consumption

Consumption of Energy by the Industrial Sector¹

| | | Coal | Natural Gas (Dry) | Petroleum | Hydroelectric | Net Coke Imports ² | Electricity Sales | Electrical Energy Losses ³ | Total Energy Consumed | Yearly Cumulative Energy Consumed |
|-------------------------------------|--------------|---------------|-------------------|---------------|---------------|-------------------------------|-------------------|---------------------------------------|-----------------------|-----------------------------------|
| Quadrillion (10 ¹²) 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 | January | 0.319 | 0.860 | 0.935 | 0.003 | 0.004 | 0.233 | 0.576 | 2.930 | 2.930 |
| | February | 0.298 | 0.602 | 0.850 | 0.003 | 0.003 | 0.231 | 0.509 | 2.495 | 5.425 |
| | March | 0.303 | 0.567 | 0.838 | 0.003 | 0.002 | 0.238 | 0.590 | 2.542 | 7.967 |
| | April | 0.292 | 0.573 | 0.723 | 0.003 | 0.005 | 0.239 | 0.560 | 2.395 | 10.362 |
| | May | 0.293 | 0.664 | 0.751 | 0.004 | 0.011 | 0.245 | 0.621 | 2.589 | 12.950 |
| | June | 0.285 | 0.641 | 0.714 | 0.003 | 0.010 | 0.245 | 0.611 | 2.509 | 15.459 |
| | July | 0.322 | 0.674 | 0.708 | 0.003 | 0.008 | 0.242 | 0.604 | 2.560 | 18.019 |
| | August | 0.301 | 0.694 | 0.748 | 0.003 | 0.009 | 0.246 | 0.598 | 2.598 | 20.617 |
| | September | 0.289 | 0.714 | 0.699 | 0.002 | 0.008 | 0.242 | 0.534 | 2.489 | 23.106 |
| | October | 0.300 | 0.841 | 0.780 | 0.002 | 0.004 | 0.244 | 0.605 | 2.777 | 25.883 |
| | November | 0.304 | 0.869 | 0.792 | 0.003 | 0.000 | 0.238 | 0.591 | 2.796 | 28.679 |
| | December | 0.334 | 0.856 | 0.863 | 0.003 | 0.002 | 0.230 | 0.584 | 2.872 | 31.551 |
| | TOTAL | 3.641 | 8.554 | 9.401 | 0.034 | 0.066 | 2.873 | 6.983 | 31.551 | |
| 1980 | January | 0.315 | 0.858 | 0.911 | 0.003 | 0.003 | R0.230 | R0.580 | R2.901 | R2.901 |
| | February | 0.295 | 0.708 | 0.819 | 0.003 | (0.001) | 0.233 | 0.545 | 2.602 | R5.503 |
| | March | 0.300 | 0.733 | 0.802 | 0.003 | (0.003) | 0.236 | 0.576 | R2.646 | R8.150 |
| | April | 0.281 | 0.573 | 0.709 | 0.003 | (0.005) | 0.232 | 0.556 | 2.348 | R10.498 |
| | May | 0.275 | 0.602 | 0.695 | 0.003 | (0.006) | 0.229 | 0.610 | 2.409 | R12.907 |
| | June | 0.259 | 0.564 | 0.658 | 0.003 | (0.004) | 0.228 | 0.608 | 2.317 | R15.224 |
| | July | 0.271 | 0.595 | 0.629 | 0.003 | (0.004) | 0.224 | R0.587 | R2.305 | R17.529 |
| | August | 0.255 | 0.574 | 0.627 | 0.002 | (0.003) | 0.230 | 0.555 | 2.241 | 19.771 |
| | September | 0.243 | 0.666 | 0.685 | 0.002 | (0.004) | 0.237 | 0.529 | 2.359 | R22.129 |
| | October | 0.283 | 0.846 | R0.727 | 0.002 | (0.006) | 0.237 | R0.573 | R2.662 | R24.791 |
| | November | 0.282 | 0.872 | R0.724 | 0.002 | (0.002) | 0.231 | 0.572 | R2.680 | R27.471 |
| | December | R0.303 | R0.869 | 0.926 | 0.002 | (0.001) | 0.234 | R0.586 | R2.920 | R30.391 |
| | TOTAL | R3.364 | R8.460 | R8.913 | 0.033 | (0.037) | 2.781 | R6.877 | R30.391 | |
| 1981 | January | 0.311 | 0.766 | 0.832 | 0.003 | 0.000 | 0.229 | 0.547 | 2.687 | 2.687 |

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

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

¹The 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.

²Net Imports = imports minus exports. Parentheses indicate exports are greater than imports.

³Proportion 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

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 |
|-------------------------------------|--------------|------------------|-------------------|----------------|-------------------|---------------------------------------|-----------------------|-----------------------------------|
| Quadrillion (10 ¹⁵) 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 | January | (³) | 0.073 | 1.715 | 0.001 | 0.002 | 1.791 | 1.791 |
| | February | (³) | 0.067 | 1.634 | 0.001 | 0.002 | 1.703 | 3.494 |
| | March | (³) | 0.057 | 1.712 | 0.001 | 0.002 | 1.772 | 5.267 |
| | April | (³) | 0.048 | 1.547 | 0.001 | 0.002 | 1.598 | 6.864 |
| | May | (³) | 0.043 | 1.626 | 0.001 | 0.002 | 1.672 | 8.536 |
| | June | (³) | 0.040 | 1.566 | 0.001 | 0.002 | 1.608 | 10.144 |
| | July | (³) | 0.040 | 1.561 | 0.001 | 0.002 | 1.604 | 11.748 |
| | August | (³) | 0.041 | 1.645 | 0.001 | 0.002 | 1.689 | 13.437 |
| | September | (³) | 0.040 | 1.516 | 0.001 | 0.002 | 1.559 | 14.996 |
| | October | (³) | 0.047 | 1.613 | 0.001 | 0.002 | 1.663 | 16.659 |
| | November | (³) | 0.053 | 1.544 | 0.001 | 0.002 | 1.601 | 18.260 |
| | December | (³) | 0.063 | 1.624 | 0.001 | 0.002 | 1.690 | 19.950 |
| | TOTAL | (³) | 0.612 | 19.303 | 0.010 | 0.024 | 19.950 | |
| 1980 | January | (³) | 0.069 | 1.561 | 0.001 | 0.002 | 1.633 | 1.633 |
| | February | (³) | 0.066 | 1.500 | 0.001 | 0.002 | 1.569 | 3.202 |
| | March | (³) | 0.063 | 1.531 | 0.001 | 0.002 | 1.597 | 4.799 |
| | April | (³) | 0.047 | 1.498 | 0.001 | 0.002 | 1.548 | 6.347 |
| | May | (³) | 0.041 | 1.498 | 0.001 | 0.002 | 1.542 | 7.889 |
| | June | (³) | 0.038 | 1.445 | 0.001 | 0.002 | 1.486 | 9.375 |
| | July | (³) | 0.039 | 1.503 | 0.001 | 0.002 | 1.546 | 10.921 |
| | August | (³) | 0.038 | 1.472 | 0.001 | 0.002 | 1.513 | 12.434 |
| | September | (³) | 0.039 | 1.441 | 0.001 | 0.002 | 1.483 | 13.917 |
| | October | (³) | 0.047 | R1.530 | 0.001 | 0.002 | R1.580 | R15.497 |
| | November | (³) | 0.054 | R1.429 | 0.001 | 0.002 | R1.485 | R16.982 |
| | December | (³) | R0.065 | R1.588 | 0.001 | 0.002 | R1.657 | R18.639 |
| | TOTAL | (³) | R0.606 | R17.997 | 0.011 | 0.025 | R18.639 | |
| 1981 | January | (³) | 0.070 | 1.574 | 0.001 | 0.002 | 1.647 | 1.647 |

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

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

¹The 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.

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.

³Since 1976 the amount of coal consumed by the Transportation Sector has been negligible.

R= Revised data.

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

Consumption

Consumption of Energy by the Electric Utilities

| | | Coal ¹ | Natural Gas (Dry) | Petroleum | Hydro-electric power ² | Nuclear Electric Power | Other ³ | Total Energy Consumed | Yearly Cumulative Energy Consumed |
|-------------------------------------|--------------|-------------------|-------------------|---------------|-----------------------------------|------------------------|--------------------|-----------------------|-----------------------------------|
| Quadrillion (10 ¹⁵) 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 | January | 1.009 | 0.236 | 0.367 | 0.279 | 0.299 | 0.007 | 2.196 | 2.196 |
| | February | 0.892 | 0.235 | 0.336 | 0.238 | 0.279 | 0.006 | 1.985 | 4.181 |
| | March | 0.900 | 0.270 | 0.329 | 0.289 | 0.262 | 0.008 | 2.057 | 6.239 |
| | April | 0.840 | 0.270 | 0.247 | 0.282 | 0.198 | 0.007 | 1.844 | 8.083 |
| | May | 0.894 | 0.286 | 0.255 | 0.320 | 0.162 | 0.007 | 1.924 | 10.006 |
| | June | 0.946 | 0.331 | 0.253 | 0.278 | 0.173 | 0.007 | 1.987 | 11.994 |
| | July | 1.007 | 0.382 | 0.249 | 0.256 | 0.224 | 0.007 | 2.125 | 14.119 |
| | August | 1.037 | 0.390 | 0.259 | 0.240 | 0.261 | 0.008 | 2.195 | 16.314 |
| | September | 0.901 | 0.350 | 0.255 | 0.215 | 0.235 | 0.007 | 1.964 | 18.278 |
| | October | 0.917 | 0.334 | 0.259 | 0.228 | 0.225 | 0.008 | 1.972 | 20.250 |
| | November | 0.916 | 0.270 | 0.276 | 0.251 | 0.207 | 0.008 | 1.928 | 22.178 |
| | December | 1.000 | 0.257 | 0.307 | 0.255 | 0.222 | 0.009 | 2.051 | 24.229 |
| | TOTAL | 11.258 | 3.610 | 3.392 | 3.132 | 2.748 | 0.089 | 24.229 | |
| 1980 | January | 1.073 | 0.286 | 0.295 | 0.282 | 0.213 | 0.008 | 2.156 | 2.156 |
| | February | 1.010 | 0.272 | 0.295 | 0.240 | 0.208 | 0.008 | 2.033 | 4.189 |
| | March | 0.992 | 0.293 | 0.269 | 0.272 | 0.216 | 0.008 | 2.050 | 6.239 |
| | April | 0.874 | 0.265 | 0.237 | 0.286 | 0.202 | 0.008 | 1.873 | 8.112 |
| | May | 0.890 | 0.291 | 0.225 | 0.319 | 0.198 | 0.010 | 1.933 | 10.045 |
| | June | 0.979 | 0.349 | 0.226 | 0.306 | 0.197 | 0.009 | 2.066 | 12.112 |
| | July | R1.124 | 0.435 | 0.230 | 0.273 | 0.226 | 0.010 | R2.299 | R14.410 |
| | August | 1.133 | 0.420 | 0.229 | R0.231 | 0.262 | 0.011 | 2.286 | R16.696 |
| | September | 1.021 | 0.369 | 0.231 | 0.210 | 0.254 | 0.010 | 2.095 | R18.791 |
| | October | 0.966 | 0.312 | R0.228 | 0.204 | 0.264 | 0.011 | R1.985 | R20.776 |
| | November | 0.975 | 0.256 | 0.240 | 0.218 | 0.226 | 0.011 | 1.926 | R22.702 |
| | December | R1.081 | R0.242 | R0.279 | 0.251 | 0.238 | 0.011 | R2.101 | R24.803 |
| | TOTAL | R12.117 | R3.791 | R2.985 | R3.092 | 2.704 | 0.114 | R24.803 | |
| 1981 | January | 1.149 | 0.232 | 0.283 | 0.251 | 0.252 | 0.011 | 2.178 | 2.178 |

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

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

¹Includes bituminous coal, lignite, and anthracite.

²Includes net imports of electricity.

³Includes 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—Pennsylvania Anthracite, Annual," 1977 forward: U.S. Department of Energy (DOE), Energy Information Administration, (EIA) *Energy Data Reports*, "Weekly Coal Report."
 - Bituminous coal and lignite—1973 through 1975, U.S. DOI, BOM, *Minerals Yearbook*, "Bituminous Coal and Lignite, Annual," Federal Power Commission (FPC), Form 4, "Monthly Power Plant Report." 1976 forward: DOE, EIA, *Energy Data Reports*, "Weekly Coal Report."
 - Electric Utility 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 Sector 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 1976 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 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 use;
 - 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.
- Petroleum coke consumed by the Electric Utilities—FPC, Form 4, "Monthly Power Plant Report." All other petroleum coke is allocated to the Industrial Sector.
- 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 a small portion 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 end-use sectors in proportion to their direct kilowatt-hour usage, i.e., sales.

Crude Oil and Refined Petroleum Products*

Domestic crude oil production during February 1981 was estimated to be 8.6 million barrels per day. This production rate was 1.4 percent below the rate in February 1980 and 0.3 percent higher than in January 1981.

Total petroleum imports averaged 5.8 million barrels per day in February 1981, 26.2 percent less than the February 1980 rate and 7.4 percent less than in January 1981.

In February 1981, 17.2 million barrels per day of petroleum products were supplied for domestic use. Motor gasoline accounted for 34.9 percent of the total, distillate fuel oil 20.7 percent, and residual fuel oil 15.4 percent.

The average for motor gasoline supplied during February 1981 averaged 6.0 million barrels per day, 9.0 percent less than the amount supplied in February 1980 and 4.2 percent lower than in January 1981.

In February 1981, 3.6 million barrels of distillate fuel oil were supplied per day, 3.8 percent lower than the amount supplied in February a year ago and 11.7 percent lower than in January 1981. Distillate fuel oil stocks were 169.9 million barrels at the end of February 1981, 11.2 percent below the stock level 1 year ago and 6.4 percent lower than the previous month's level.

Residual fuel oil supplied in February 1981 averaged 2.7 million barrels per day, 14.5 percent lower than in February 1980. Residual fuel oil stocks measured 73.1 million barrels at the end of February 1981, 19.7 percent below the level a year ago and 7.5 percent lower than the previous month's level.

*Estimates for the two most recent months 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, 3} | Strategic Petroleum Reserve (SPR) Stocks ³ |
|------|----------------|------------------------------------|---|-----------------------|-----------------------------------|---|----------------------|--|---|
| | | Thousand barrels per day | | | | | Thousand 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 | R20 | 50 | ‡339,857 | ‡R7,540 |
| 1978 | AVERAGE | 14,739 | 8,707 | 1,229 | 6,195 | R162 | 158 | ‡309,421 | ‡66,860 |
| 1979 | January | 14,840 | 8,475 | 1,351 | 6,721 | 204 | 177 | 302,059 | 73,142 |
| | February | 14,314 | 8,525 | 1,266 | 6,344 | 179 | 288 | 302,374 | 78,166 |
| | March | 14,260 | 8,601 | 1,355 | 6,252 | 122 | 370 | 316,690 | 82,501 |
| | April | 14,571 | 8,553 | 1,346 | 6,145 | 66 | 260 | 319,075 | 83,867 |
| | May | 14,450 | 8,601 | 1,349 | 6,163 | 97 | 171 | 316,322 | 86,880 |
| | June | 14,806 | 8,432 | 1,246 | 6,582 | 65 | 235 | 325,860 | 88,567 |
| | July | 15,098 | 8,364 | 1,405 | 6,561 | 41 | 244 | 312,946 | 90,101 |
| | August | 14,967 | 8,548 | 1,433 | 6,774 | 35 | 245 | 320,965 | 91,189 |
| | September | 14,594 | 8,523 | 1,436 | 6,426 | 0 | 175 | 323,939 | 91,189 |
| | October | 14,423 | 8,621 | 1,480 | 6,890 | 0 | 179 | 344,854 | *91,191 |
| | November | 14,537 | 8,761 | 1,613 | 6,228 | 0 | 264 | 347,415 | 91,191 |
| | December | 14,877 | 8,615 | 1,519 | 6,318 | 0 | 215 | 339,074 | 91,191 |
| | AVERAGE | 14,648 | 8,552 | 1,401 | 6,452 | 67 | 235 | | |
| 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 | R12,777 | R8,536 | R1,588 | R4,570 | 131 | 309 | R378,488 | 96,645 |
| | November† | 13,113 | 8,500 | 1,558 | 4,422 | 142 | 289 | 372,248 | 102,320 |
| | December† | 13,636 | 8,551 | 1,597 | 4,779 | 198 | 343 | 356,782 | 107,800 |
| | AVERAGE | R13,481 | R8,592 | R1,616 | R5,162 | 44 | 284 | | |
| 1981 | January† | <i>13,640</i> | <i>8,550</i> | <i>1,611</i> | <i>4,652</i> | NA | NA | <i>374,555</i> | NA |
| | February† | <i>13,287</i> | <i>8,575</i> | <i>1,633</i> | <i>4,325</i> | NA | NA | <i>376,196</i> | NA |
| | AVERAGE | 13,472 | 8,562 | 1,621 | 4,497 | NA | NA | | |

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

¹Includes lease condensate.

²Includes Alaskan production.

³Excludes SPR. Strategic Petroleum Reserve storage began in October 1977.

*Indicates an adjustment in reported barrels in storage.

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

†Total as of December 31.

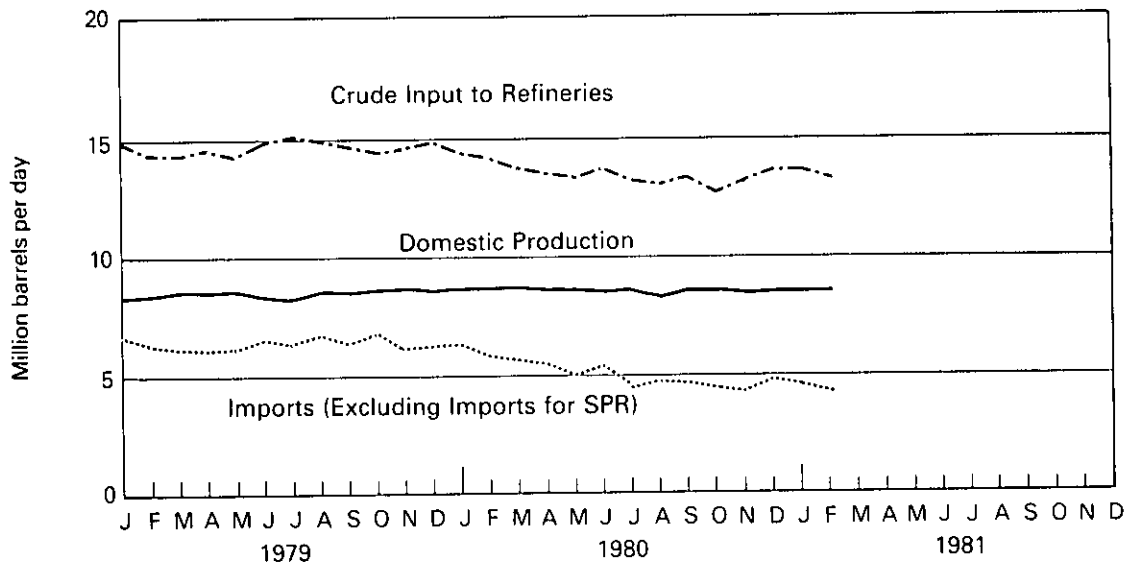
‡Preliminary data. R=Revised data. NA=Not available.

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

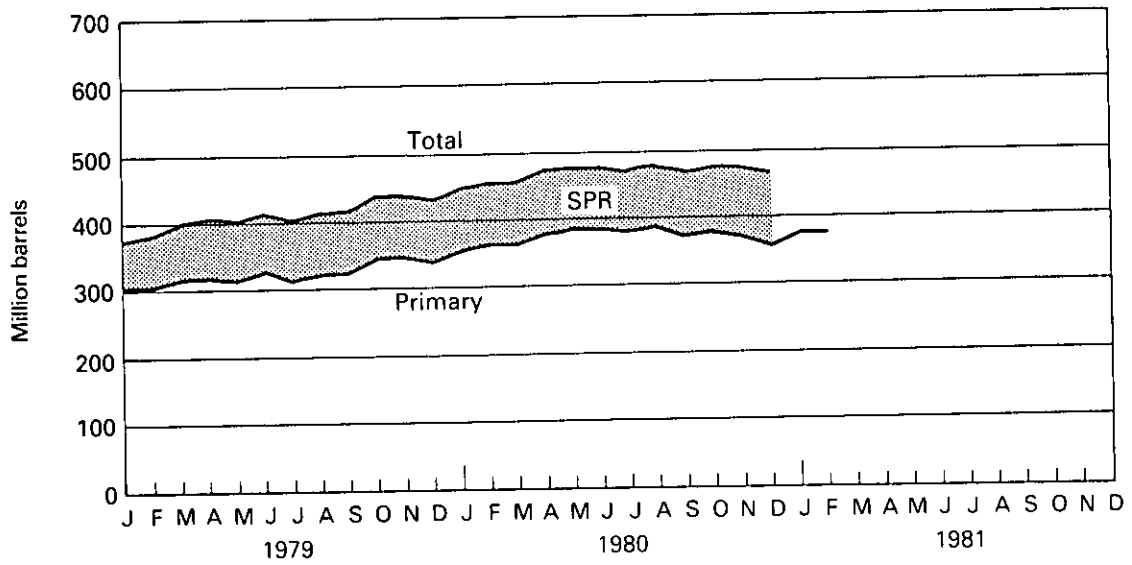
Petroleum

Crude Oil

Production, Refinery Input and Imports



Stocks



Petroleum

| | | Total Petroleum Products ¹ | | | 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) ³ | Total Exports | Net Imports |
| | | Thousand barrels per day | | | Thousand barrels per day | | | | |
| 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 | R20 | 8,807 | 243 | 8,565 |
| 1978 | AVERAGE | 18,847 | 2,008 | 204 | 8,202 | R162 | 8,363 | 362 | 8,002 |
| 1979 | January | 20,586 | 2,223 | 215 | 8,944 | 204 | 9,148 | 392 | 8,756 |
| | February | 21,288 | 2,069 | 198 | 8,413 | 179 | 8,591 | 486 | 8,105 |
| | March | 19,322 | 2,386 | 241 | 8,638 | 122 | 8,760 | 611 | 8,150 |
| | April | 17,434 | 1,682 | 234 | 7,828 | 66 | 7,893 | 493 | 7,400 |
| | May | 17,801 | 1,830 | 257 | 7,993 | 97 | 8,091 | 429 | 7,662 |
| | June | 17,786 | 1,680 | 233 | 8,262 | 65 | 8,327 | 468 | 7,859 |
| | July | 17,144 | 1,956 | 242 | 8,517 | 41 | 8,559 | 486 | 8,072 |
| | August | 18,149 | 1,781 | 221 | 8,555 | 35 | 8,590 | 466 | 8,124 |
| | September | 17,400 | 1,597 | 239 | 8,023 | 0 | 8,023 | 414 | 7,609 |
| | October | 18,176 | 1,798 | 246 | 8,688 | 0 | 8,688 | 425 | 8,263 |
| | November | 18,313 | 1,913 | 246 | 8,141 | 0 | 8,141 | 510 | 7,631 |
| | December | 18,922 | 2,310 | 256 | 8,628 | 0 | 8,628 | 471 | 8,157 |
| | 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 | R16,911 | R1,603 | 288 | R6,173 | 131 | R6,303 | 598 | R5,706 |
| | November† | 16,696 | 1,668 | 260 | 6,090 | 142 | 6,232 | 549 | 5,683 |
| | December† | R18,769 | 1,699 | 279 | 6,477 | 198 | 6,675 | 622 | 6,053 |
| | AVERAGE | R17,042 | R1,596 | 258 | R6,759 | 44 | R6,802 | 542 | R6,261 |
| 1981 | January† | 18,280 | 1,600 | NA | 6,252 | NA | NA | NA | NA |
| | February† | 17,191 | 1,467 | NA | 5,792 | NA | NA | NA | NA |
| | AVERAGE | 17,763 | 1,537 | NA | 6,034 | 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.

¹See Definitions.

²Includes plant condensate, natural gasoline and unfinished oils.

³Strategic Petroleum Reserve storage began in October 1977.

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

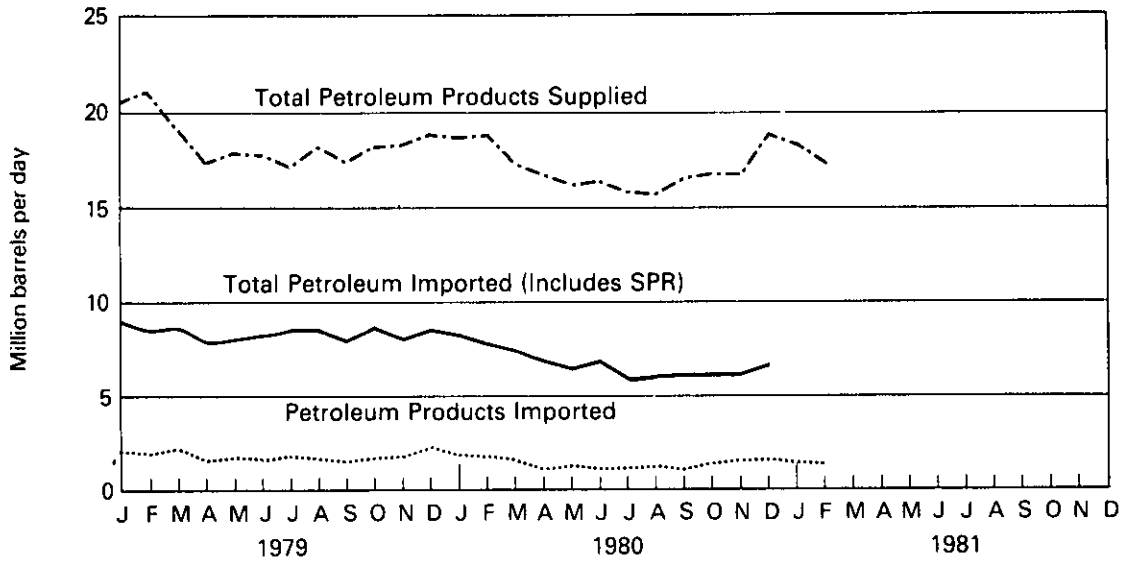
†Preliminary data. R=Revised data. NA=Not available.

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

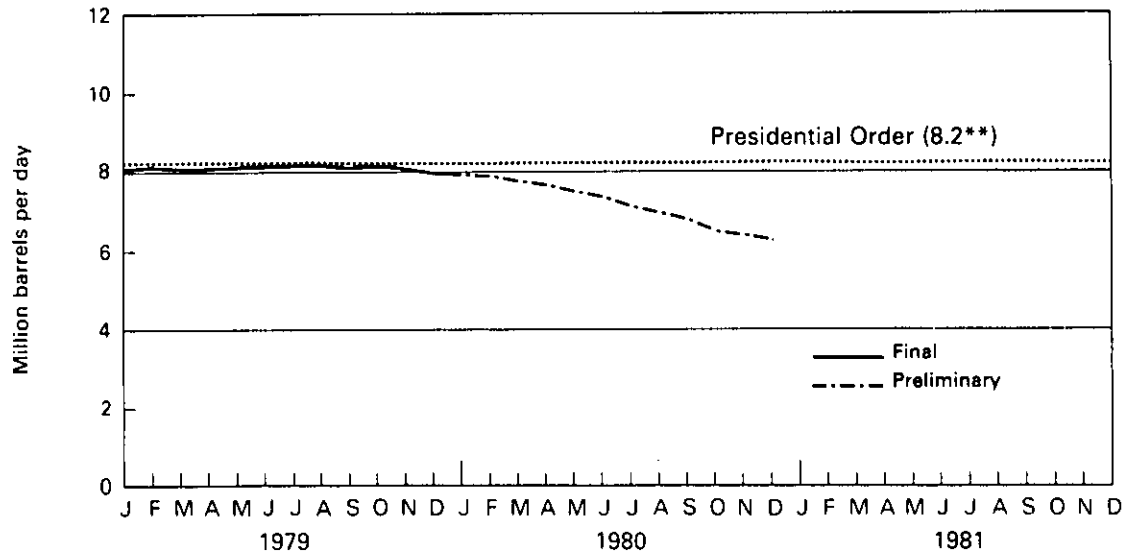
Petroleum

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 ² |
|--------------------------|------------|-------------|------------|------------|--------------|---------------|----------------------|-------------|-------------------------|---------------|-----------------------------------|
| Thousand barrels 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 | | | | | | | | | | | |
| January | 669 | 503 | 187 | 754 | 1,159 | 1,563 | 341 | 661 | 229 | 6,066 | 3,425 |
| February | 746 | 521 | 86 | 614 | 984 | 1,628 | 310 | 749 | 171 | 5,810 | 3,404 |
| March | 579 | 419 | 22 | 598 | 1,403 | 1,310 | 298 | 851 | 272 | 5,754 | 2,950 |
| April | 687 | 376 | 52 | 771 | 989 | 1,484 | 285 | 619 | 130 | 5,392 | 3,311 |
| May | 755 | 343 | 197 | 651 | 1,118 | 1,273 | 292 | 671 | 147 | 5,447 | 3,024 |
| June | 587 | 391 | 318 | 765 | 932 | 1,258 | 282 | 609 | 364 | 5,507 | 3,185 |
| July | 591 | 427 | 425 | 666 | 1,000 | 1,443 | 272 | 674 | 183 | 5,682 | 3,083 |
| August | 669 | 499 | 516 | 657 | 1,183 | 1,332 | 247 | 731 | 261 | 6,097 | 3,052 |
| September | 510 | 359 | 373 | 621 | 1,103 | 1,281 | 270 | 726 | 200 | 5,443 | 2,843 |
| October | 615 | 452 | 496 | 762 | 988 | 1,271 | 234 | 617 | 304 | 5,738 | 3,086 |
| November | 621 | 351 | 549 | 476 | 1,007 | 1,163 | 307 | 693 | 146 | 5,312 | 2,589 |
| December | 603 | 403 | 414 | 559 | 1,080 | 1,279 | 242 | 680 | 130 | 5,390 | 2,743 |
| 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 | 0 | 468 | 955 | 1,149 | 172 | 405 | 132 | 4,083 | 2,314 |
| June | 497 | 331 | 0 | 561 | 998 | 1,327 | 178 | 409 | 105 | 4,408 | 2,598 |
| July | 537 | 308 | 0 | 492 | 721 | 1,179 | 158 | 411 | 55 | 3,861 | 2,378 |
| August | 432 | 289 | 0 | 431 | 770 | 1,136 | 142 | 397 | 98 | 3,695 | 2,205 |
| September | 375 | 299 | 0 | 505 | 735 | 1,112 | 107 | 425 | 111 | 3,670 | 2,185 |
| October | 463 | R348 | 0 | 476 | 716 | R1,043 | 182 | R482 | 52 | R3,762 | R2,178 |
| November† | 468 | 328 | 0 | 484 | 595 | 1,186 | 105 | 593 | 71 | 3,829 | 2,275 |
| December† | 417 | 270 | 0 | 625 | 950 | 1,282 | 83 | 597 | 101 | 4,324 | 2,425 |
| AVERAGE | 481 | R339 | 8 | 550 | 846 | R1,254 | 179 | R461 | 121 | R4,238 | R2,533 |

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.

¹Includes Ecuador, Gabon, Iraq, Kuwait and Qatar.

²Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait and Qatar.

†Preliminary data. R=Revised data.

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

Petroleum

Petroleum Imports from Non-OPEC Sources

| | Bahamas | Canada | Mexico | Netherlands Antilles | Puerto Rico | Trinidad and Tobago | Virgin Islands | Other ¹ | Total |
|--------------------------|------------|-------------|-------------|-------------------------|----------------|------------------------|-------------------|--------------------|---------------|
| Thousand barrels per day | | | | | | | | | |
| 1973 | | | | | | | | | |
| AVERAGE | 174 | 1,325 | 16 | 585 | 99 | 255 | 329 | 480 | 3,263 |
| 1974 | | | | | | | | | |
| 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 | | | | | | | | | |
| AVERAGE | 171 | 517 | 179 | 211 | 105 | 289 | 466 | 676 | 2,614 |
| 1978 | | | | | | | | | |
| AVERAGE | 160 | 467 | 318 | 229 | 94 | 253 | 429 | 663 | 2,613 |
| 1979 | | | | | | | | | |
| January | 159 | 565 | 595 | 238 | 109 | 151 | 477 | 787 | 3,082 |
| February | 106 | 561 | 415 | 255 | 68 | 191 | 421 | 764 | 2,782 |
| March | 94 | 616 | 397 | 314 | 64 | 215 | 562 | 746 | 3,007 |
| April | 129 | 578 | 302 | 179 | 65 | 156 | 475 | 619 | 2,502 |
| May | 135 | 558 | 403 | 191 | 102 | 216 | 382 | 658 | 2,644 |
| June | 138 | 469 | 458 | 172 | 106 | 169 | 414 | 895 | 2,820 |
| July | 193 | 490 | 407 | 209 | 117 | 168 | 451 | 840 | 2,877 |
| August | 157 | 464 | 439 | 246 | 92 | 238 | 357 | 499 | 2,493 |
| September | 149 | 464 | 431 | 276 | 86 | 166 | 286 | 722 | 2,580 |
| October | 151 | 486 | 531 | 242 | 60 | 200 | 403 | 876 | 2,950 |
| November | 169 | 583 | 429 | 196 | 110 | 161 | 438 | 743 | 2,829 |
| December | 178 | 619 | 454 | 257 | 120 | 240 | 508 | 862 | 3,238 |
| AVERAGE | 147 | 538 | 439 | 231 | 92 | 190 | 431 | 751 | 2,819 |
| 1980 | | | | | | | | | |
| January | 175 | 569 | 545 | 289 | 56 | 239 | 467 | 806 | 3,147 |
| February | 111 | 540 | 463 | 205 | 95 | 192 | 522 | 752 | 2,880 |
| March | 124 | 460 | 460 | 184 | 81 | 189 | 443 | 827 | 2,767 |
| April | 56 | 411 | 546 | 231 | 63 | 143 | 418 | 771 | 2,639 |
| May | 77 | 419 | 576 | 184 | 88 | 221 | 303 | 597 | 2,466 |
| June | 77 | R408 | 627 | 196 | 91 | 160 | R315 | 611 | 2,485 |
| July | 43 | 378 | 434 | 242 | 90 | 180 | 365 | 454 | 2,185 |
| August | 62 | 319 | 646 | 255 | 85 | 159 | 254 | 627 | 2,407 |
| September | 58 | 403 | 549 | 213 | 52 | 205 | 343 | 690 | 2,513 |
| October | 70 | R473 | R604 | R238 | R107 | R114 | 359 | R577 | R2,542 |
| November† | 22 | 444 | 431 | 263 | 101 | 158 | 391 | 593 | 2,403 |
| December† | 54 | 449 | 392 | 212 | 109 | 149 | 424 | 562 | 2,351 |
| AVERAGE | 78 | R438 | R523 | R228 | R85 | 176 | R383 | R655 | R2,564 |

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.

¹Includes Non-OPEC Arab, Western Europe, Angola, U.S.S.R., Rumania, other Western Hemisphere and other Eastern Hemisphere.

†Preliminary data. R=Revised data.

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

Petroleum

Motor Gasoline

| | | Product Supplied | | | | | | | |
|------|----------------|--------------------------|---------------|---------------------------------|-------------------------------------|--------------|-------------|---------------------|---------------------|
| | | Total | Unleaded | Unleaded Percent of Total | Refinery Production ¹ | Imports | Exports | Stocks ¹ | |
| | | Thousand barrels per day | | | | | | | Thousand 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 | January | 6,830 | 2,609 | 38.2 | 7,246 | 179 | 1 | 256,894 | |
| | February | 7,254 | 2,715 | 37.4 | 6,924 | 160 | 1 | 252,478 | |
| | March | 7,229 | 2,733 | 37.8 | 6,654 | 168 | (s) | 240,007 | |
| | April | 7,055 | 2,786 | 39.5 | 6,770 | 156 | 1 | 236,600 | |
| | May | 7,213 | 2,751 | 38.1 | 6,792 | 145 | (s) | 228,515 | |
| | June | 7,191 | 2,787 | 38.8 | 7,001 | 261 | (s) | 231,014 | |
| | July | 6,902 | 2,789 | 40.4 | 7,002 | 222 | (s) | 241,469 | |
| | August | 7,330 | 2,970 | 40.5 | 6,882 | 148 | 1 | 232,734 | |
| | September | 6,881 | 2,815 | 40.9 | 6,626 | 135 | (s) | 229,542 | |
| | October | 7,020 | 2,802 | 39.9 | 6,483 | 150 | (s) | 218,065 | |
| | November | 6,791 | 2,928 | 43.1 | 6,673 | 182 | 1 | 220,472 | |
| | December | 6,730 | 2,890 | 42.9 | 6,988 | 263 | (s) | 237,082 | |
| | | AVERAGE | 7,034 | 2,798 | 39.8 | 6,837 | 181 | (s) | |
| 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 | 44.5 | 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 | R6,662 | 3,110 | R46.7 | R6,124 | R152 | 1 | R246,422 | |
| | November† | 6,344 | 3,123 | 49.2 | 6,458 | 126 | (s) | 256,538 | |
| | December† | 6,610 | 3,421 | 51.8 | 6,624 | 121 | 1 | 261,113 | |
| | | AVERAGE | R6,586 | 3,067 | 46.6 | 6,492 | R140 | 1 | |
| 1981 | January† | 6,264 | NA | NA | 6,562 | 97 | NA | 272,259 | |
| | February† | 6,000 | NA | NA | 6,373 | 60 | NA | 284,343 | |
| | AVERAGE | 6,139 | NA | NA | 6,472 | 79 | NA | | |

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

¹See Definitions.

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

‡Total as of December 31.

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

(s)=Less than 500 barrels per day.

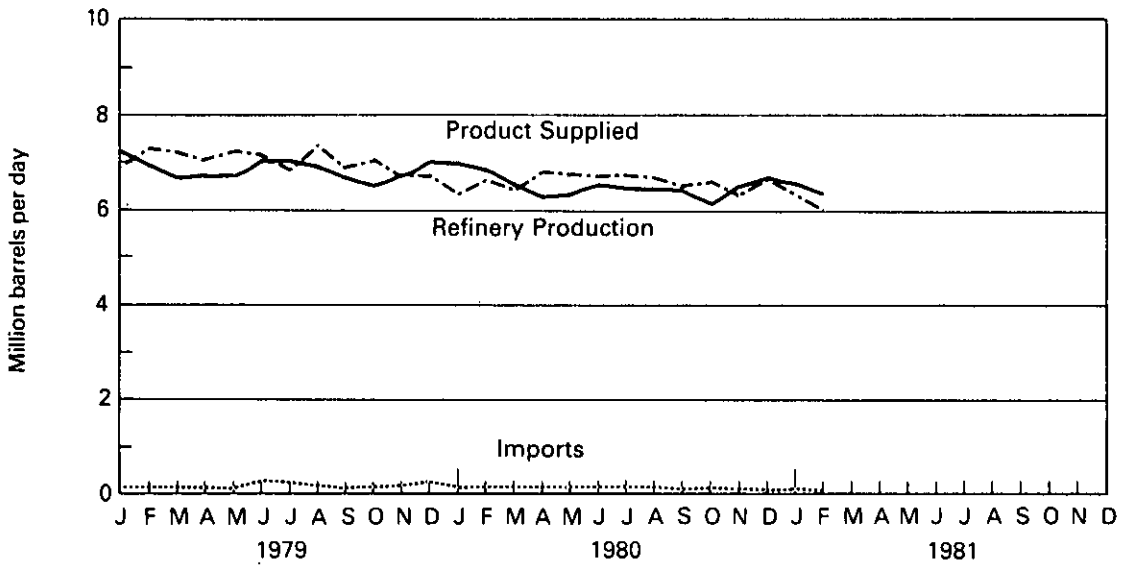
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

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

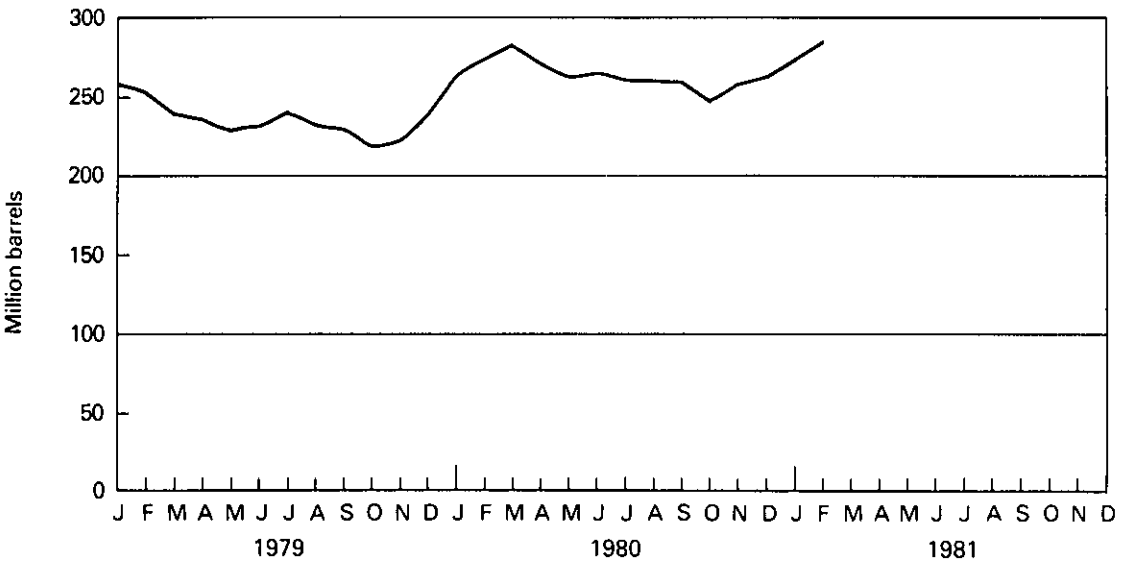
Petroleum

Motor Gasoline

Product Supplied, Refinery Production and Imports



Stocks



Petroleum

Jet Fuel

| | | Product Supplied | Refinery Production | Imports | Exports | Stocks |
|------|----------------|---------------------|------------------------|------------|-----------|--------------------------|
| | | | | | | Thousand barrels |
| | | | | | | Thousand barrels per day |
| 1973 | AVERAGE | 1,059 | 859 | 212 | 4 | ‡28,544 |
| 1974 | AVERAGE | 993 | 836 | 163 | 3 | ‡29,435 |
| 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 | January | 1,096 | 950 | 97 | 1 | 32,114 |
| | February | 1,149 | 998 | 94 | 1 | 30,475 |
| | March | 1,101 | 1,098 | 61 | 1 | 32,267 |
| | April | 980 | 1,043 | 49 | 1 | 35,581 |
| | May | 989 | 980 | 78 | 1 | 37,698 |
| | June | 1,095 | 958 | 57 | 1 | 35,301 |
| | July | 1,094 | 965 | 90 | 1 | 34,063 |
| | August | 1,085 | 1,040 | 49 | 1 | 34,136 |
| | September | 1,099 | 958 | 84 | 1 | 32,420 |
| | October | 1,055 | 1,046 | 90 | (s) | 34,920 |
| | November | 1,070 | 1,029 | 83 | 1 | 36,161 |
| | December | 1,103 | 1,072 | 108 | 1 | 38,520 |
| | AVERAGE | 1,076 | 1,012 | 78 | 1 | |
| 1980 | January | 1,101 | 1,004 | 95 | 1 | 38,412 |
| | February | 1,072 | 1,026 | 43 | 2 | 38,258 |
| | March | 1,116 | 1,031 | 99 | 2 | 38,661 |
| | April | 1,105 | 1,023 | 107 | 3 | 39,339 |
| | May | 1,015 | 1,001 | 79 | 2 | 41,310 |
| | June | 1,057 | 1,004 | 86 | 1 | 42,283 |
| | July | 1,110 | 974 | 93 | 2 | 40,902 |
| | August | 1,043 | 959 | 67 | 1 | 40,331 |
| | September | 1,056 | 1,041 | 77 | 1 | 42,159 |
| | October | R1,037 | R977 | R93 | 1 | R43,177 |
| | November† | 1,010 | 987 | 49 | 1 | 43,916 |
| | December† | 1,076 | 970 | 49 | 1 | 42,137 |
| | AVERAGE | R1,066 | 999 | R78 | 1 | |
| 1981 | January† | 1,145 | 1,009 | 17 | NA | 39,584 |
| | February† | 1,091 | 977 | 48 | NA | 37,747 |
| | AVERAGE | 1,119 | 994 | 32 | NA | |

Geographic coverage: the 50 United States and District of Columbia.
Estimated data in italics. These are likely to be revised next month.

‡Total as of December 31.

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

(s)=Less than 500 barrels per day.

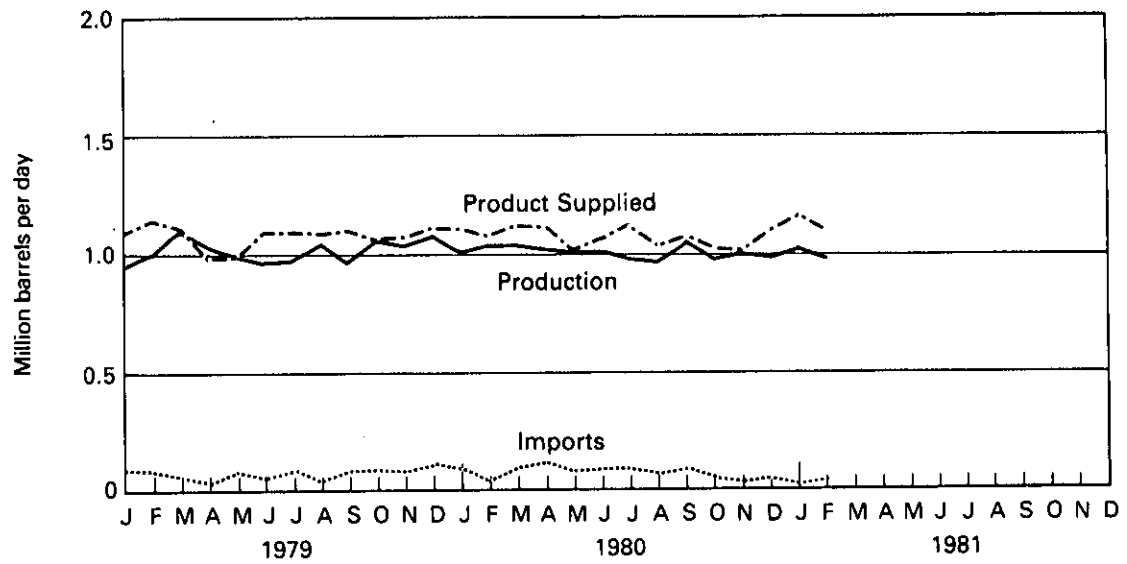
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

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

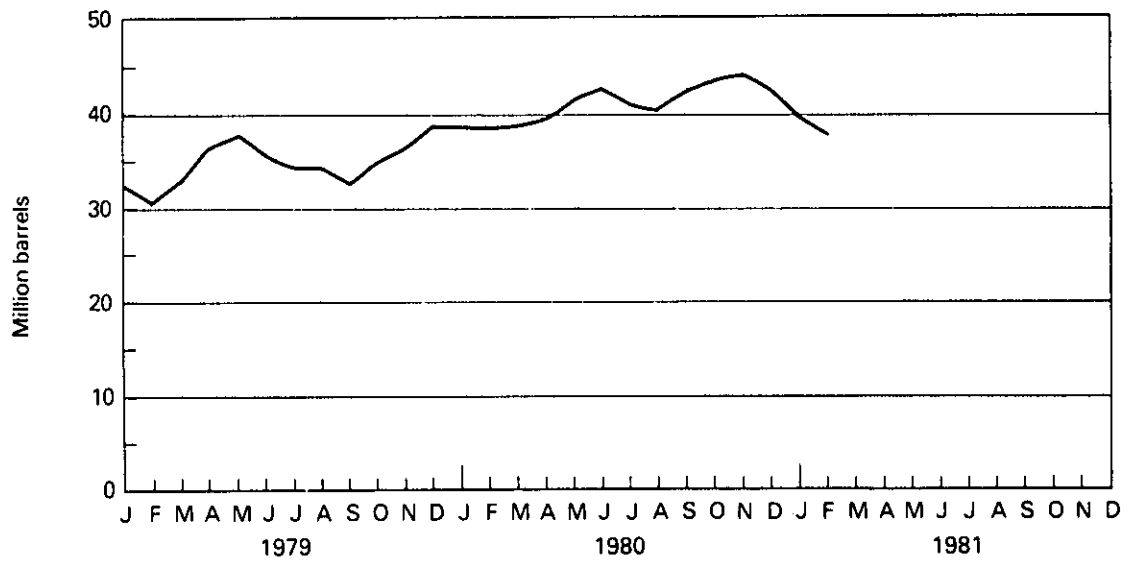
Petroleum

Jet Fuel

Product Supplied, Refinery Production and Imports



Stocks



Petroleum

Distillate Fuel Oil

| | | Product Supplied | Refinery Production ¹ | Imports | Exports | Stocks ¹ |
|-------------|----------------|--------------------------|-------------------------------------|-------------|-----------|---------------------|
| | | Thousand barrels 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 | January | 4,581 | 3,043 | 226 | 1 | 175,823 |
| | February | 4,812 | 2,888 | 196 | 7 | 127,275 |
| | March | 3,664 | 3,019 | 176 | 1 | 112,275 |
| | April | 3,016 | 2,945 | 150 | 2 | 115,124 |
| | May | 2,998 | 3,066 | 185 | (s) | 123,042 |
| | June | 2,708 | 3,153 | 180 | 15 | 141,367 |
| | July | 2,563 | 3,305 | 225 | 7 | 171,203 |
| | August | 2,761 | 3,321 | 218 | (s) | 195,365 |
| | September | 2,647 | 3,354 | 126 | 2 | 220,377 |
| | October | 3,119 | 3,251 | 211 | 1 | 231,056 |
| | November | 3,247 | 3,239 | 193 | (s) | 236,641 |
| | December | 3,708 | 3,221 | 229 | (s) | 228,712 |
| | AVERAGE | 3,311 | 3,152 | 193 | 3 | |
| 1980 | January | 3,732 | 3,023 | 179 | 7 | 212,126 |
| | February | 3,706 | 2,778 | 221 | 8 | 191,464 |
| | March | 3,171 | 2,564 | 179 | 19 | 177,659 |
| | April | 2,630 | 2,462 | 147 | 2 | 177,006 |
| | May | 2,402 | 2,471 | 126 | 1 | 183,072 |
| | June | 2,331 | 2,645 | 108 | (s) | 195,790 |
| | July | 2,225 | 2,688 | 117 | 3 | 213,756 |
| | August | 2,136 | 2,462 | 77 | (s) | 226,305 |
| | September | 2,590 | 2,687 | 101 | (s) | 232,310 |
| | October | R2,918 | R2,590 | R115 | (s) | R225,711 |
| | November† | 2,894 | 2,676 | 125 | (s) | 223,143 |
| | December† | 3,629 | 2,881 | 164 | (s) | 205,081 |
| | AVERAGE | R2,862 | R2,660 | R138 | 3 | |
| 1981 | January† | <i>4,038</i> | <i>3,140</i> | <i>224</i> | NA | <i>181,593</i> |
| | February† | <i>3,565</i> | <i>2,913</i> | <i>235</i> | NA | <i>169,937</i> |
| | AVERAGE | 3,814 | 3,032 | 229 | NA | |

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

¹See Definitions.

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

‡Total as of December 31.

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

(s) = Less than 500 barrels per day.

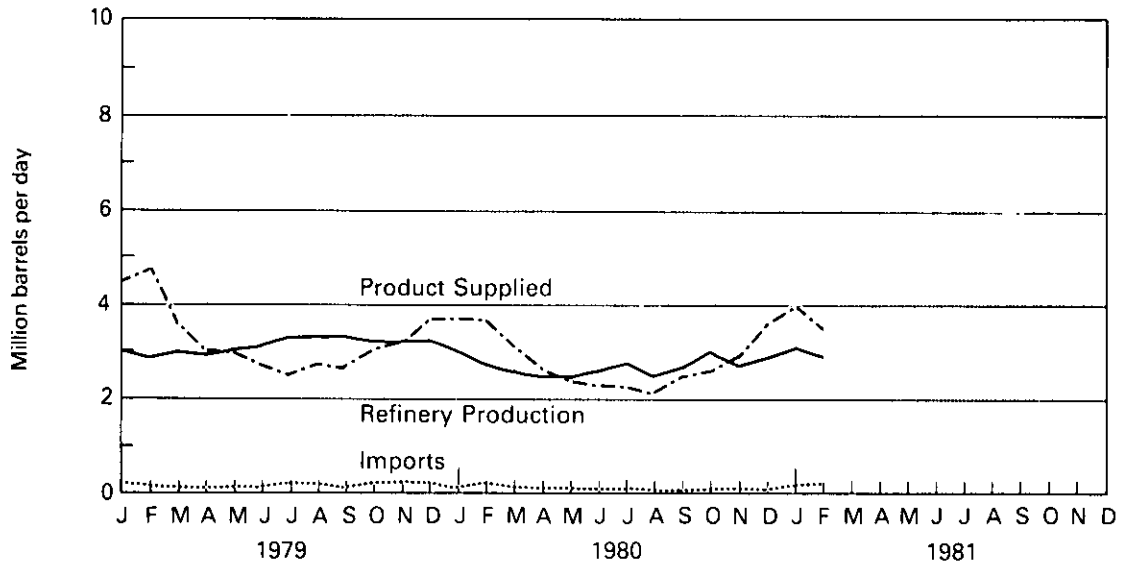
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

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

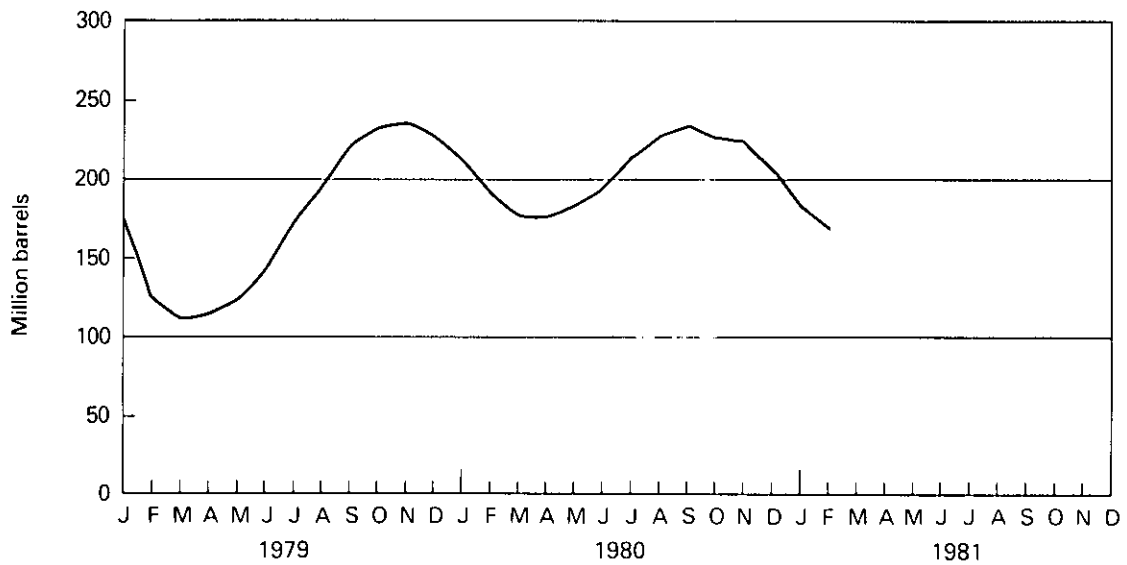
Petroleum

Distillate Fuel Oil

Product Supplied, Refinery Production and Imports



Stocks



Petroleum

Residual Fuel Oil

| | | Product Supplied | Refinery Production | Imports | Exports | Stocks |
|------|----------------|--------------------------|------------------------|---------------|--------------|---------------------|
| | | Thousand barrels per day | | | | Thousand barrels |
| 1973 | AVERAGE | 2,822 | 971 | 1,853 | 23 | ‡53,480 |
| 1974 | AVERAGE | 2,639 | 1,070 | 1,587 | 14 | ‡59,694 |
| 1975 | AVERAGE | 2,462 | 1,235 | 1,223 | 15 | ‡74,126 |
| 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 | January | 3,560 | 1,912 | 1,371 | 6 | 81,853 |
| | February | 3,595 | 1,792 | 1,300 | 10 | 67,899 |
| | March | 3,239 | 1,719 | 1,642 | 14 | 71,652 |
| | April | 2,507 | 1,639 | 1,134 | 2 | 79,959 |
| | May | 2,503 | 1,586 | 1,051 | 8 | 84,261 |
| | June | 2,583 | 1,548 | 880 | 8 | 79,816 |
| | July | 2,451 | 1,575 | 1,065 | 5 | 85,907 |
| | August | 2,550 | 1,584 | 1,023 | 14 | 87,622 |
| | September | 2,609 | 1,627 | 979 | 2 | 87,789 |
| | October | 2,540 | 1,629 | 1,042 | 18 | 91,611 |
| | November | 2,815 | 1,736 | 1,046 | 5 | 90,799 |
| | December | 3,013 | 1,894 | 1,278 | 14 | 95,598 |
| | | AVERAGE | 2,826 | 1,687 | 1,151 | 9 |
| 1980 | January | 2,865 | 1,766 | 1,132 | 5 | 97,153 |
| | February | 3,099 | 1,770 | 1,119 | 17 | 90,959 |
| | March | 2,650 | 1,581 | 971 | 2 | 88,269 |
| | April | 2,434 | 1,591 | 769 | 140 | 85,219 |
| | May | 2,234 | 1,507 | 812 | 20 | 87,639 |
| | June | 2,324 | 1,575 | 749 | 14 | 87,657 |
| | July | 2,287 | 1,480 | 787 | 60 | 85,605 |
| | August | 2,287 | 1,444 | 875 | 2 | 86,949 |
| | September | 2,360 | 1,497 | 906 | 21 | 87,876 |
| | October | R2,224 | R1,513 | R871 | 70 | R90,989 |
| | November† | 2,425 | 1,564 | 1,017 | 88 | 93,282 |
| | December† | R2,718 | 1,656 | 1,015 | 62 | 90,295 |
| | | AVERAGE | R2,490 | R1,578 | R918 | 33 |
| 1981 | January† | <i>2,734</i> | <i>1,627</i> | <i>1,020</i> | NA | <i>78,965</i> |
| | February† | <i>2,651</i> | <i>1,679</i> | <i>813</i> | NA | <i>73,057</i> |
| | AVERAGE | 2,695 | 1,652 | 922 | NA | |

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

†Beginning in April 1980, residual fuel oil exports increased due to shipments of high sulfur fuel to a Caribbean refinery to be desulfurized and returned to the United States.

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

‡Total as of December 31.

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

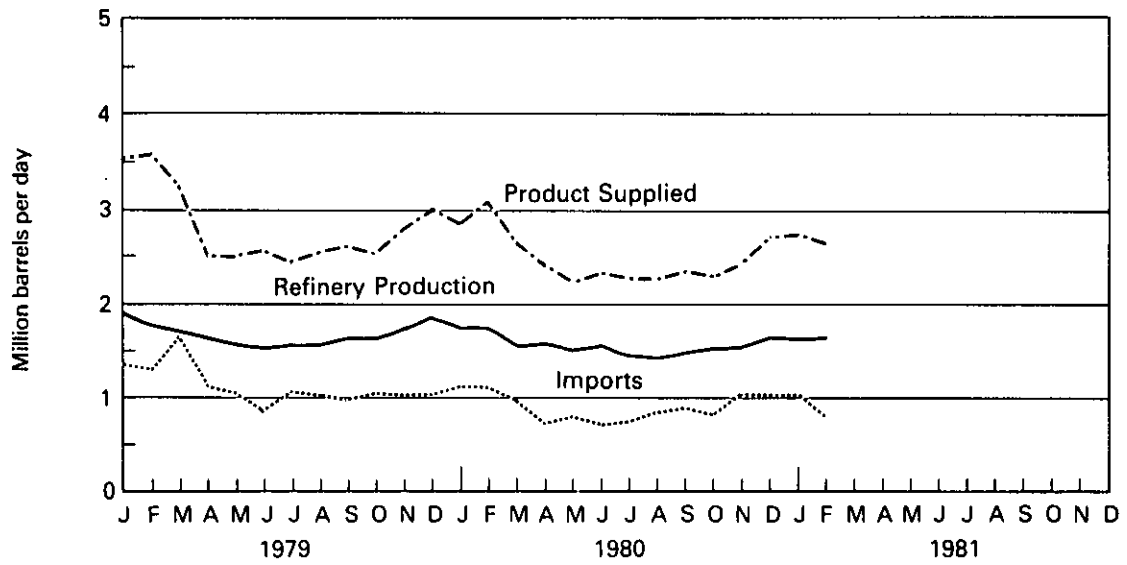
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

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

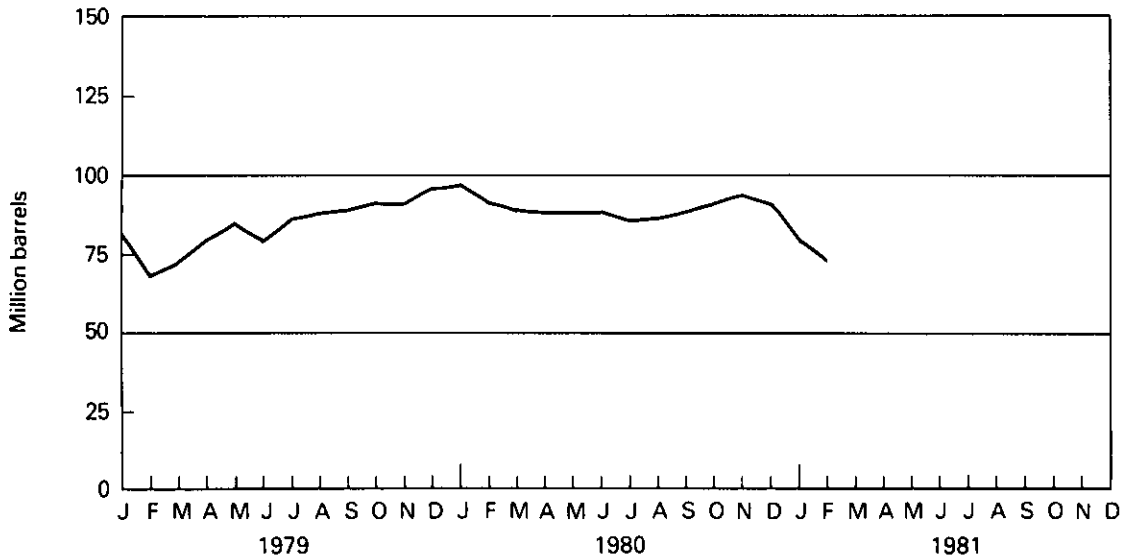
Petroleum

Residual Fuel Oil

Product Supplied, Refinery Production and Imports



Stocks



Petroleum

Natural Gas Plant Liquids, Including Liquefied Refinery Gases

| | | Products Supplied ¹ | Production ¹ | | Used at Refineries ¹ | Imports | Stocks ¹ |
|-------------|----------------|-----------------------------------|-------------------------|------------------|------------------------------------|-------------|---------------------|
| | | | At processing plants | At refineries | | | |
| | | Thousand barrels per day | | | | | Thousand 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 | *‡140,052 |
| 1979 | January | 2,158 | 1,530 | 335 | 597 | 256 | 127,514 |
| | February | 2,101 | 1,561 | 316 | 572 | 252 | 111,824 |
| | March | 1,788 | 1,548 | 322 | 538 | 257 | 106,826 |
| | April | 1,522 | 1,611 | 341 | 469 | 160 | 110,066 |
| | May | 1,471 | 1,570 | 373 | 476 | 255 | 117,515 |
| | June | 1,379 | 1,571 | 356 | 455 | 175 | 125,231 |
| | July | 1,408 | 1,564 | 361 | 444 | 240 | 134,639 |
| | August | 1,501 | 1,575 | 363 | 461 | 236 | 140,825 |
| | September | 1,529 | 1,565 | 323 | 450 | 194 | 143,623 |
| | October | 1,701 | 1,607 | 321 | 506 | 193 | 140,533 |
| | November | 1,880 | 1,676 | 323 | 586 | 268 | 134,040 |
| | December | 1,930 | 1,626 | 343 | 572 | 273 | 125,289 |
| | AVERAGE | 1,695 | 1,584 | 340 | 504 | 230 | |
| 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 | 455 | 178 | 143,618 |
| | August | 1,244 | 1,514 | 323 | 417 | 166 | 153,716 |
| | September | 1,463 | 1,510 | 314 | 463 | 168 | 155,181 |
| | October | R1,612 | R1,498 | R300 | 501 | R262 | R152,763 |
| | November† | 1,623 | 1,596 | 315 | 528 | 109 | 143,371 |
| | December† | 1,746 | 1,563 | 338 | 534 | 112 | 134,374 |
| | AVERAGE | R1,526 | 1,566 | 328 | 501 | R191 | |

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

¹See Explanatory Note 7 and Definitions.

²EIA natural gas plant coverage was expanded in January 1979 to include approximately 80 more plants. Calculated on the new basis, December 1978 closing stocks of natural gas plant liquids totaled 147,548 thousand barrels.

†Total as of December 31.

‡Preliminary data. R=Revised data.

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

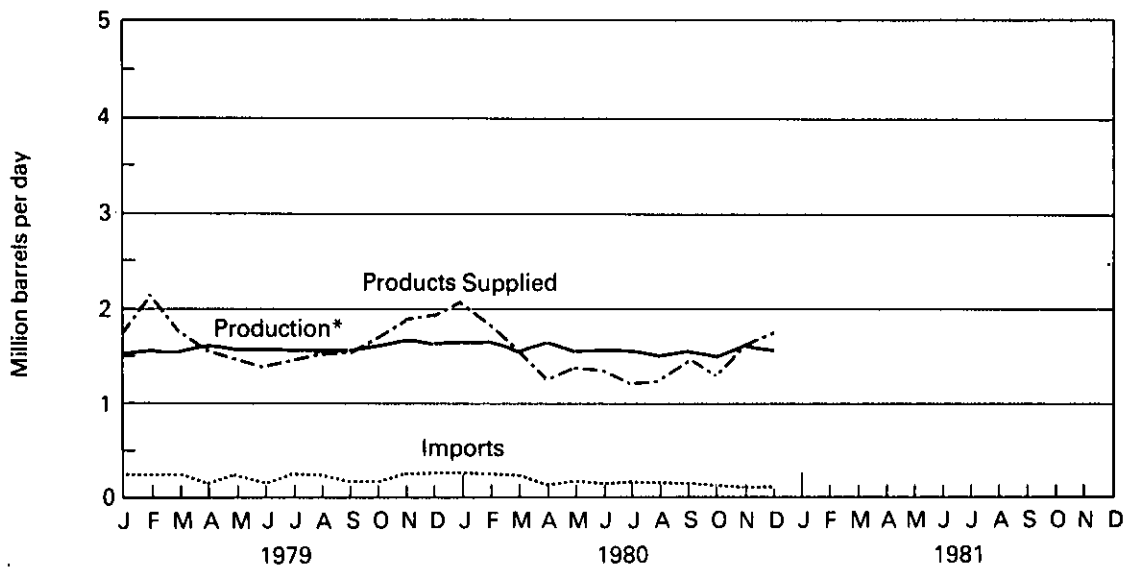
• November 1980 through December 1980: EIA "Monthly Petroleum Statistics Report."

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

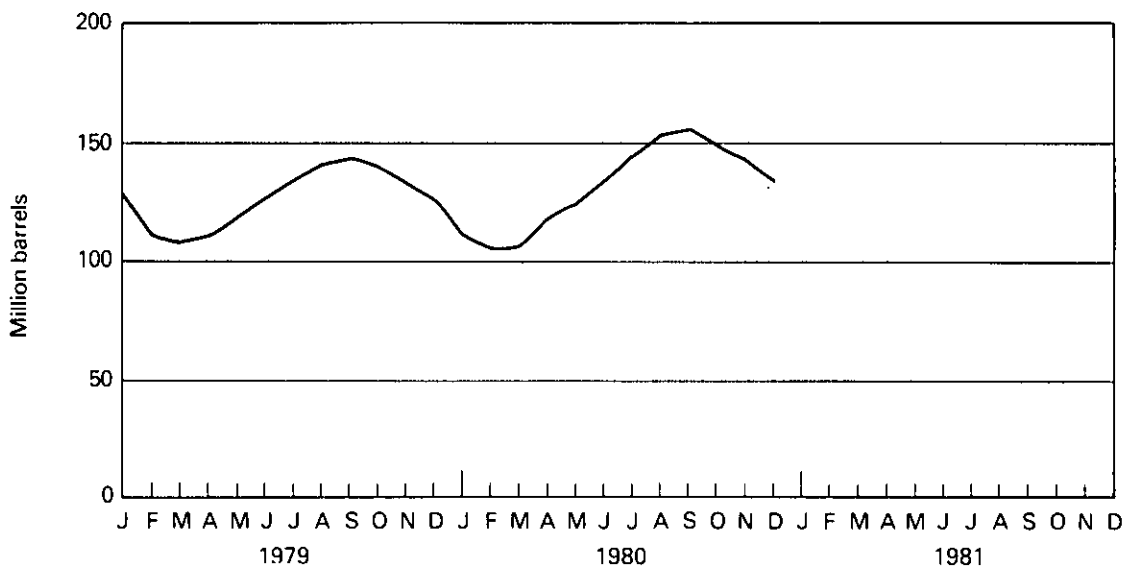
Petroleum

Natural Gas Plant Liquids

Products Supplied, Production and Imports



Stocks



*At processing plants.

Petroleum

Petroleum Primary Supply Balance

| 1979 | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|
| | 1st Qtr. | 2nd Qtr. | 3rd Qtr. | 4th Qtr. | Year |
| Thousand barrels per day | | | | | |
| Primary Supply | | | | | |
| Crude oil and lease condensate production | 8,534 | 8,529 | 8,478 | 8,664 | 8,552 |
| Natural gas plant liquids production | 1,546 | 1,584 | 1,568 | 1,636 | 1,584 |
| Other hydrocarbon supply | 33 | 39 | 48 | 56 | 44 |
| Crude oil imported ¹ | 6,610 | 6,372 | 6,614 | 6,481 | 6,519 |
| Petroleum products imported ² | <u>2,231</u> | <u>1,732</u> | <u>1,780</u> | <u>2,008</u> | <u>1,937</u> |
| Total new primary supply | 18,955 | 18,256 | 18,489 | 18,846 | 18,635 |
| Processing gain | 444 | 513 | 569 | 581 | 527 |
| Stock change—all oils ³ | <u>-1,586</u> | <u>+740</u> | <u>+1,077</u> | <u>+348</u> | <u>+153</u> |
| Total net primary supply | 20,985 | 18,029 | 17,981 | 19,078 | 19,010 |
| Unaccounted for crude oil ⁴ | -104 | +125 | +57 | -122 | -11 |
| Disposition | | | | | |
| Crude oil and petroleum products exported | 497 | 463 | 456 | 468 | 471 |
| Crude oil losses | 15 | 16 | 16 | 16 | 16 |
| Total products supplied ⁵ | <u>20,369</u> | <u>17,675</u> | <u>17,566</u> | <u>18,472</u> | <u>18,513</u> |
| Total disposition | 20,881 | 18,153 | 18,038 | 18,956 | 18,999 |
| 1980 | | | | | |
| | 1st Qtr. | 2nd Qtr. | 3rd Qtr. | 4th Qtr.† | Year† |
| Primary Supply | | | | | |
| Crude oil and lease condensate production | 8,685 | 8,625 | 8,531 | 8,541 | 8,595 |
| Natural gas plant liquids production | 1,622 | 1,580 | 1,513 | 1,550 | 1,566 |
| Other hydrocarbon supply | 56 | 49 | 44 | 42 | 48 |
| Crude oil imported ¹ | 6,029 | 5,366 | 4,692 | 4,726 | 5,200 |
| Petroleum products imported ² | <u>1,872</u> | <u>1,440</u> | <u>1,418</u> | <u>1,629</u> | <u>1,589</u> |
| Total new primary supply | 18,263 | 17,059 | 16,197 | 16,488 | 16,998 |
| Processing gain | 629 | 567 | 593 | 590 | 595 |
| Stock change—all oils ³ | <u>-1</u> | <u>+753</u> | <u>+393</u> | <u>-764</u> | <u>+94</u> |
| Total net primary supply | 18,893 | 16,873 | 16,398 | 17,843 | 17,500 |
| Unaccounted for crude oil ⁴ | -57 | +61 | +158 | +192 | +89 |
| Disposition | | | | | |
| Crude oil and petroleum products exported | 547 | 562 | 468 | 590 | 542 |
| Crude oil losses | 15 | 14 | 14 | 14 | 14 |
| Total products supplied ⁵ | <u>18,274</u> | <u>16,358</u> | <u>16,074</u> | <u>17,430</u> | <u>17,032</u> |
| Total disposition | 18,836 | 16,934 | 16,556 | 18,034 | 17,588 |

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

¹Includes crude oil imported for the Strategic Petroleum Reserve.

²Includes plant condensate, natural gasoline and unfinished oils.

³Includes petroleum stored in the Strategic Petroleum Reserve.

⁴Balancing item resulting from statistical inconsistencies.

⁵Includes international bunkers.

†Preliminary data. R=Revised data.

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

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

• October 1980 through December 1980: EIA, "Monthly Petroleum Statistics Report" (except exports).

• Exports for October 1980 are preliminary data based on the EIA-87 and the Bureau of the Census tapes EM 522 and EM 594.

• 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, Annual".
- January 1980 through October 1980: EIA *Energy Data Reports*, "Petroleum Statement, Monthly" and "PAD Districts Supply/Demand, Monthly."
- November 1980 through December 1980: EIA "Monthly Petroleum Statistics Report".
- Domestic production for the 2 most recent months are EIA estimates based on historical data from State Conservation Agencies and the U.S. Geological Survey.
- Data for the 2 most recent months are estimates based on EIA weekly data (except domestic production).
- 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 February 1981 was an estimated 2.0 trillion cubic feet (Tcf). This was 15.6 percent lower than in January 1981 and 11.0 percent less than in February 1980.

Production of dry natural gas in February 1981 was an estimated 1.6 Tcf, 9.7 percent less than in January 1981 and 3.5 percent lower than in February 1980.

Imports of natural gas in February 1981 were an estimated 83 billion cubic feet (Bcf), 25.2 percent less than in the previous February. Receipts of foreign gas during February 1981 included Algerian liquefied natural gas (LNG) equivalent to approximately 5 Bcf.

Domestic producer sales to major interstate pipelines in January 1981 totaled 965 Bcf, 1.6 percent below sales for the previous January.

Stocks of working gas* in underground natural gas storage reservoirs at the end of February 1981 totaled 1.8 Tcf, 2.6 percent below stocks available a year earlier. Net withdrawals from storage during February 1981 were 323 Bcf, 31.1 percent lower than during the previous February.

*Gas available for withdrawal.

Natural Gas

| | | Production | | | Domestic Producer Sales to Major Interstate Pipelines | Imports | Exports |
|--------------------|--------------|-------------------------|----------------|----------------|---|--------------|-----------|
| | | Domestic Consumption | Marketed | Dry | | | |
| 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 | January | 2,426 | 1,771 | 1,702 | 890 | 102 | 6 |
| | February | 2,204 | 1,656 | 1,591 | 819 | 97 | 5 |
| | March | 1,881 | 1,755 | 1,686 | 907 | 113 | 5 |
| | April | 1,594 | 1,692 | 1,625 | 871 | 106 | 5 |
| | May | 1,429 | 1,716 | 1,648 | 877 | 104 | 5 |
| | June | 1,309 | 1,643 | 1,578 | 812 | 101 | 5 |
| | July | 1,330 | 1,662 | 1,596 | 851 | 104 | 6 |
| | August | 1,342 | 1,689 | 1,622 | 880 | 97 | 4 |
| | September | 1,329 | 1,635 | 1,570 | 820 | 98 | 5 |
| | October | 1,557 | 1,705 | 1,638 | 888 | 107 | 3 |
| | November | 1,768 | 1,724 | 1,656 | 921 | 114 | 3 |
| | December | 2,072 | 1,823 | 1,751 | 960 | 110 | 4 |
| | TOTAL | 20,241 | 20,471 | 19,663 | 10,496 | 1,253 | 56 |
| 1980 | January | 2,279 | 1,817 | 1,745 | 981 | 119 | 5 |
| | February | 2,192 | 1,705 | 1,638 | 898 | 111 | 3 |
| | March | 2,099 | 1,827 | 1,754 | 960 | 108 | 5 |
| | April | 1,568 | 1,667 | 1,601 | 897 | 91 | 6 |
| | May | 1,355 | 1,692 | 1,625 | 859 | 70 | 6 |
| | June | 1,253 | 1,583 | 1,520 | 794 | 62 | 5 |
| | July | 1,301 | 1,613 | 1,549 | 825 | 64 | 6 |
| | August | 1,246 | 1,572 | 1,510 | 828 | 60 | 5 |
| | September | 1,299 | 1,577 | 1,515 | 800 | 58 | 4 |
| | October | 1,542 | 1,647 | 1,582 | 894 | 73 | 3 |
| | November | 1,783 | 1,651 | 1,586 | 906 | 85 | 3 |
| | December | R2,156 | R1,794 | R1,723 | 963 | 93 | 4 |
| | TOTAL | R20,073 | R20,145 | R19,348 | 10,605 | 994 | 55 |
| 1981 | January | R2,310 | R1,820 | R1,750 | 965 | R86 | 5 |
| | February | 1,950 | 1,650 | 1,580 | NA | 83 | 3 |
| | TOTAL | 4,260 | 3,470 | 3,330 | NA | 169 | 8 |

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.

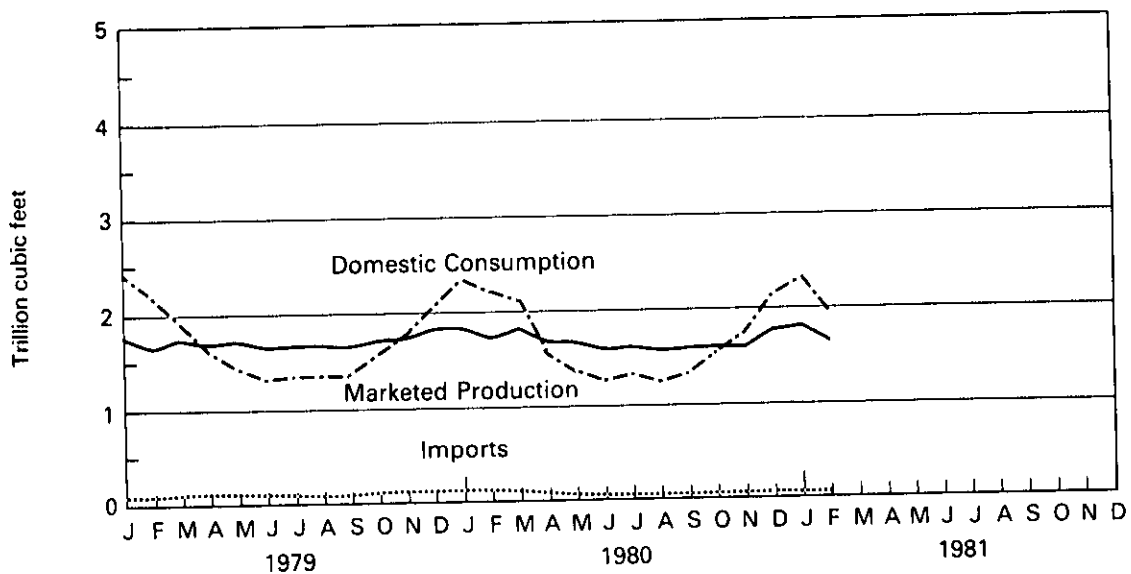
• Domestic Producer Sales—Federal Power Commission (FPC) Form 11, "Natural Gas Pipeline Company Monthly Statement."

• 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.

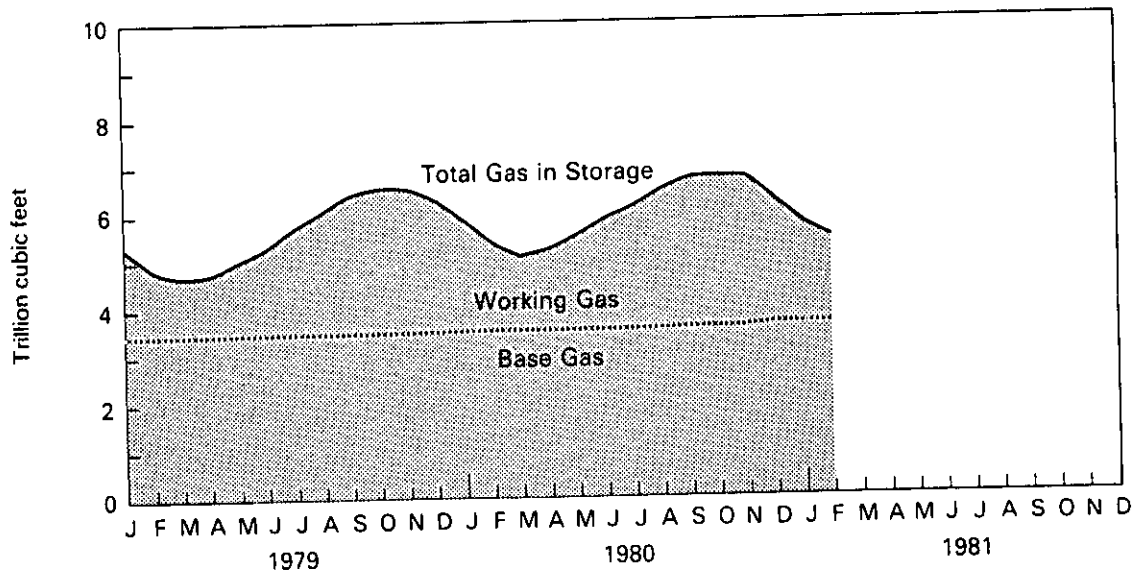
• Exports—1973 through 1979: FPC Form 14; January 1980 forward: EIA estimates based primarily on historical data reported on FPC Form 14.

Natural Gas

Domestic Consumption, Marketed Production and Imports



Gas in Storage



Natural Gas

Natural Gas in Underground Storage¹

| | | Total Gas in Storage | Base Gas | Working Gas | Storage Injections | Storage Withdrawals | Net Storage Injections ² |
|--------------------|-----------|----------------------------|-------------|----------------|-----------------------|------------------------|---|
| Billion cubic feet | | | | | | | |
| 1975 | TOTAL | ‡5,358 | ‡3,150 | ‡2,208 | NA | NA | NA |
| 1976 | TOTAL | ‡5,231 | ‡3,310 | ‡1,922 | 1,952 | 2,074 | (122) |
| 1977 | TOTAL | ‡5,844 | ‡3,377 | ‡2,466 | 2,390 | 1,767 | 623 |
| 1978 | TOTAL | ‡5,999 | ‡3,459 | ‡2,540 | 2,330 | 2,176 | 154 |
| 1979 | January | 5,348 | 3,458 | 1,890 | 21 | 673 | (652) |
| | February | 4,806 | 3,457 | 1,349 | 23 | 566 | (543) |
| | March | 4,695 | 3,459 | 1,236 | 94 | 205 | (111) |
| | April | 4,762 | 3,427 | 1,335 | 182 | 73 | 109 |
| | May | 5,057 | 3,438 | 1,619 | 308 | 13 | 295 |
| | June | 5,399 | 3,449 | 1,950 | 350 | 8 | 342 |
| | July | 5,743 | 3,459 | 2,284 | 361 | 19 | 342 |
| | August | 6,095 | 3,467 | 2,628 | 362 | 12 | 350 |
| | September | 6,401 | 3,481 | 2,920 | 326 | 14 | 312 |
| | October | 6,563 | 3,484 | 3,079 | 196 | 34 | 162 |
| | November | 6,541 | 3,496 | 3,045 | 108 | 132 | (24) |
| | December | 6,297 | 3,537 | 2,761 | 53 | 292 | (239) |
| 1980 | January | 5,865 | 3,535 | 2,330 | 21 | 465 | (444) |
| | February | 5,397 | 3,536 | 1,861 | 24 | 493 | (469) |
| | March | 5,131 | 3,542 | 1,589 | 41 | 307 | (266) |
| | April | 5,227 | 3,547 | 1,680 | 174 | 78 | 96 |
| | May | 5,538 | 3,553 | 1,985 | 319 | 8 | 311 |
| | June | 5,841 | 3,560 | 2,281 | 316 | 13 | 303 |
| | July | 6,127 | 3,564 | 2,563 | 302 | 18 | 284 |
| | August | 6,444 | 3,594 | 2,850 | 328 | 30 | 298 |
| | September | 6,692 | 3,596 | 3,096 | 260 | 11 | 249 |
| | October | 6,782 | 3,598 | 3,184 | 141 | 53 | 88 |
| | November | 6,639 | 3,620 | 3,019 | 66 | 203 | (137) |
| | December | 6,272 | 3,628 | 2,643 | 34 | 402 | (368) |
| 1981 | January | 5,763 | 3,629 | 2,134 | 28 | 537 | (509) |
| | February | 5,440 | 3,628 | 1,812 | 62 | 385 | (323) |

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

¹See Explanatory Note 9.

²Net Storage Injections = storage injection minus storage withdrawal. Parentheses indicate withdrawal greater than injection.

‡Total as of December 31.

NA = Not available. R = Revised data.

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

Part 5 Oil and Gas Resource Development

Oil and Gas Resource Development

The February rotary rig count of 3,502 is the highest in U.S. drilling history. The count surpassed the previous record of 3,386 rigs the month before. This represents a 34.0 percent increase over the February 1980 count of 2,613 rotary rigs.

Well completions reported in February 1981 totaled 5,116. This is a 30.1 percent increase from the number reported during February 1980.

Oil well completions reported in February 1981 (2,462 reported) were up 50.6 percent from February 1980 (1,635 reported). In February 1981, 1,045 gas well completions were reported, 4.5 percent above the February 1980 level. Dry hole completions reported increased 24.1 percent (1,609 as compared to 1,297 during the previous February). Total reported footage drilled increased 20.5 percent (22.8 million feet as compared to 18.9 million feet the year before).

There were 41 crews engaged in seismic exploratory work offshore in February 1981. This is a 41.4 percent increase from the February 1980 level. February 1981 on-shore seismic activity attained a new high of 561 crews, 27.5 percent higher than activity during February 1980.

Oil and Gas Resource Development

| | | Rotary Rigs In Operation | Exploratory and Development Wells Completed ^{1 2} | | | | 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 | 1,856 | 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 | January | 2,199 | | 1,372 | 996 | 1,278 | 3,646 | 17,963 |
| | February | 2,064 | | 1,463 | 1,139 | 1,076 | 3,678 | 18,017 |
| | March | 1,971 | | 1,544 | 1,343 | 1,372 | 4,259 | 21,175 |
| | April | 1,943 | | 1,135 | 1,085 | 926 | 3,146 | 16,019 |
| | May | 1,960 | | 1,335 | 1,024 | 1,166 | 3,525 | 17,451 |
| | June | 1,999 | | 1,696 | 1,199 | 1,252 | 4,147 | 19,520 |
| | July | 2,094 | | 1,535 | 1,090 | 1,131 | 3,756 | 16,910 |
| | August | 2,222 | | 1,529 | 1,245 | 1,366 | 4,140 | 19,555 |
| | September | 2,284 | | 1,831 | 1,382 | 1,423 | 4,636 | 22,676 |
| | October | 2,380 | | 1,647 | 1,138 | 1,313 | 4,098 | 19,216 |
| | November | 2,460 | | 1,869 | 1,270 | 1,505 | 4,644 | 21,843 |
| | December | 2,552 | | 2,390 | 1,736 | 1,891 | 6,017 | 27,098 |
| | | AVERAGE | 2,177 | TOTAL | 19,383 | 14,681 | 15,752 | 49,816 |
| 1980 | January | 2,571 | | 1,436 | 782 | 1,240 | 3,458 | 16,475 |
| | February | 2,613 | | R1,635 | R1,000 | R1,297 | R3,932 | R18,891 |
| | March | 2,658 | | 2,383 | 1,839 | 1,547 | 5,769 | 27,665 |
| | April | 2,682 | | 1,836 | 1,120 | 1,168 | 4,124 | 18,884 |
| | May | 2,797 | | 2,061 | 1,080 | 1,202 | 4,343 | 20,034 |
| | June | 2,850 | | 2,232 | 1,296 | 1,463 | 4,991 | 24,640 |
| | July | 2,953 | | 2,068 | 1,037 | 1,333 | 4,438 | 21,649 |
| | August | 3,045 | | 2,340 | 1,270 | 1,537 | 5,147 | 24,037 |
| | September | 3,099 | | 2,636 | 1,721 | 1,761 | 6,118 | 28,168 |
| | October | 3,148 | | 2,409 | 1,191 | 1,692 | 5,292 | 24,554 |
| | November | 3,220 | | 2,239 | 1,498 | 1,598 | 5,335 | 25,273 |
| | December | 3,286 | | 3,675 | 1,903 | 2,237 | 7,815 | 33,806 |
| | | AVERAGE | 2,910 | TOTAL | 26,985 | 15,737 | 18,087 | 60,809 |
| 1981 | January | 3,386 | | 1,789 | 971 | 1,360 | 4,120 | 20,195 |
| | February | 3,502 | | 2,462 | 1,045 | 1,609 | 5,116 | 22,763 |
| | AVERAGE | 3,441 | TOTAL | 4,251 | 2,016 | 2,975 | 9,236 | 42,958 |

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.

²Data 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 | | | Line-Miles of Seismic Exploration | | |
|------|----------------|--------------------------------------|---------|-------|-----------------------------------|----------------------|--------------------|
| | | Offshore | Onshore | Total | Offshore ¹ | Onshore ¹ | Total ¹ |
| | | Monthly average | | | Annual total | | |
| 1973 | AVERAGE | 23 | 227 | 250 | 258,944 | 127,160 | 386,104 |
| 1974 | AVERAGE | 31 | 274 | 305 | 341,784 | 158,629 | 500,413 |
| 1975 | AVERAGE | 30 | 254 | 284 | 309,283 | 150,694 | 459,977 |
| 1976 | AVERAGE | 25 | 237 | 262 | 226,303 | 142,926 | 369,229 |
| 1977 | AVERAGE | 27 | 281 | 308 | 124,676 | 120,072 | 244,748 |
| 1978 | AVERAGE | 25 | 327 | 352 | 174,607 | 135,899 | 310,506 |
| 1979 | January | 28 | 327 | 355 | 193,212 | 163,929 | 357,141 |
| | February | 29 | 321 | 350 | | | |
| | March | 32 | 332 | 364 | | | |
| | April | 30 | 330 | 360 | | | |
| | May | 28 | 355 | 383 | | | |
| | June | 32 | 372 | 404 | | | |
| | July | 31 | 376 | 407 | | | |
| | August | 31 | 393 | 424 | | | |
| | September | 30 | 403 | 433 | | | |
| | October | 29 | 407 | 436 | | | |
| | November | 31 | 408 | 439 | | | |
| | December | 31 | 419 | 450 | | | |
| | | AVERAGE | 30 | 370 | | | |
| 1980 | January | 29 | 439 | 468 | | | |
| | February | 29 | 440 | 469 | | | |
| | March | 29 | 448 | 477 | | | |
| | April | 31 | 465 | 496 | | | |
| | May | 34 | 468 | 502 | | | |
| | June | 39 | 496 | 535 | | | |
| | July | 42 | 514 | 556 | | | |
| | August | 44 | 521 | 565 | | | |
| | September | 44 | 523 | 567 | | | |
| | October | 41 | 530 | 571 | | | |
| | November | 41 | 531 | 572 | | | |
| | December | 40 | 540 | 580 | | | |
| | | AVERAGE | 37 | 493 | 530 | | |
| 1981 | January | 38 | 553 | 591 | | | |
| | February | 41 | 561 | 602 | | | |
| | AVERAGE | 39 | 557 | 596 | | | |

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

¹Monthly data not available.

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

Coal

Coal production in January 1981 was 66.4 million tons, 2.7 percent below the 68.3 millions tons provided in January 1980.

Imports of coal in January 1981 totaled 35 thousand tons. Exports of coal in January 1981 totaled 5.8 million tons, 1.3 million tons more than the amount exported during January 1980. Coal exports were principally to Japan (26.7 percent) and France (13.9 percent).

Coal consumption in 1980 totaled 706.0 million tons, 3.7 percent more than consumption in 1979. Electric utilities accounted for 80.6 percent of total coal consumption, followed by the Industrial Sector (including coke plants and transportation) at 18.3 percent and the Residential and Commercial Sector at 1.1 percent.

Stockpiles increased from 181.6 million tons at the end of December 1979 to 203.2 million tons at the end of December 1980. Coal stocks held by electric utilities accounted for 90 percent of these stocks.

Coal

Bituminous Coal, Lignite, and Anthracite

| | | Production | Domestic Consumption | Imports ¹ | Exports ^{2,3} | Stocks ⁴ |
|---------------------|-----------|------------|-------------------------|----------------------|------------------------|---------------------|
| Thousand 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 | R40,714 | 145,551 |
| 1979 | January | 57,794 | 61,199 | 186 | R3,607 | 136,425 |
| | February | 54,810 | 54,463 | 252 | R2,728 | 129,042 |
| | March | 66,775 | 54,864 | 123 | R4,644 | 134,044 |
| | April | 63,937 | 51,601 | 161 | R5,271 | 142,328 |
| | May | 69,488 | 54,026 | 112 | R6,217 | 151,269 |
| | June | 70,698 | 56,025 | 209 | R5,978 | 155,406 |
| | July | 53,595 | 60,397 | 88 | R6,300 | 148,265 |
| | August | 71,616 | 60,750 | 320 | R6,249 | 152,787 |
| | September | 64,590 | 54,219 | 180 | R5,148 | 158,016 |
| | October | 78,563 | 55,719 | 152 | R7,447 | 169,633 |
| | November | 68,506 | 55,997 | 130 | R6,173 | 177,722 |
| | December | 60,762 | 61,263 | 146 | R6,280 | 181,646 |
| | TOTAL | 781,134 | 680,524 | 2,059 | R66,042 | |
| 1980 | January | 68,276 | R63,615 | 121 | 4,460 | R179,434 |
| | February | 64,678 | R59,760 | 193 | 4,041 | R176,776 |
| | March | 70,326 | 58,904 | 93 | 5,633 | 176,637 |
| | April | 70,381 | 52,641 | 63 | 7,563 | R185,303 |
| | May | 70,899 | 52,842 | 207 | 8,597 | R193,840 |
| | June | 71,850 | 56,107 | 104 | 8,899 | 199,204 |
| | July | 61,225 | R63,255 | 32 | 8,247 | R185,888 |
| | August | 70,665 | 62,889 | 166 | 9,270 | 190,635 |
| | September | 72,460 | 57,434 | 2 | 8,364 | 194,333 |
| | October | 76,210 | R57,224 | 139 | 9,454 | 201,658 |
| | November | 65,930 | 57,625 | 3 | 8,987 | 203,904 |
| | December | 72,500 | 63,728 | 70 | 8,228 | 203,242 |
| | TOTAL | 835,400 | R706,024 | 1,194 | 91,742 | |
| 1981 | January | 66,447 | NA | 35 | 5,795 | 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.

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

²Includes 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.

³Excludes shipments of anthracite to U.S. Armed Forces overseas (340,000 tons in 1980).

⁴Stocks 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 Sectors).

R = Revised data.

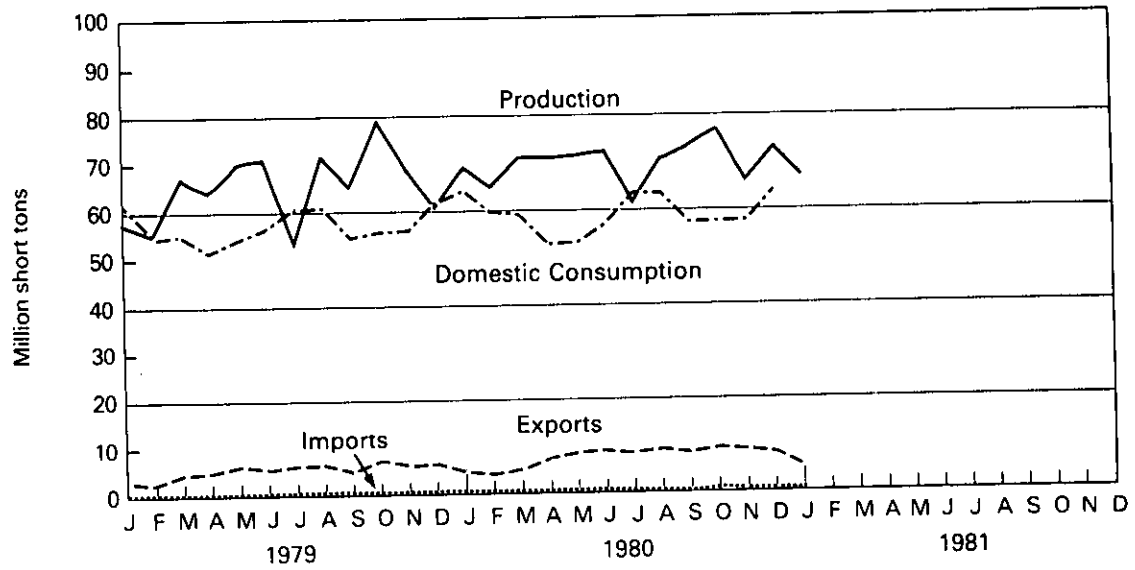
NA = Not available.

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

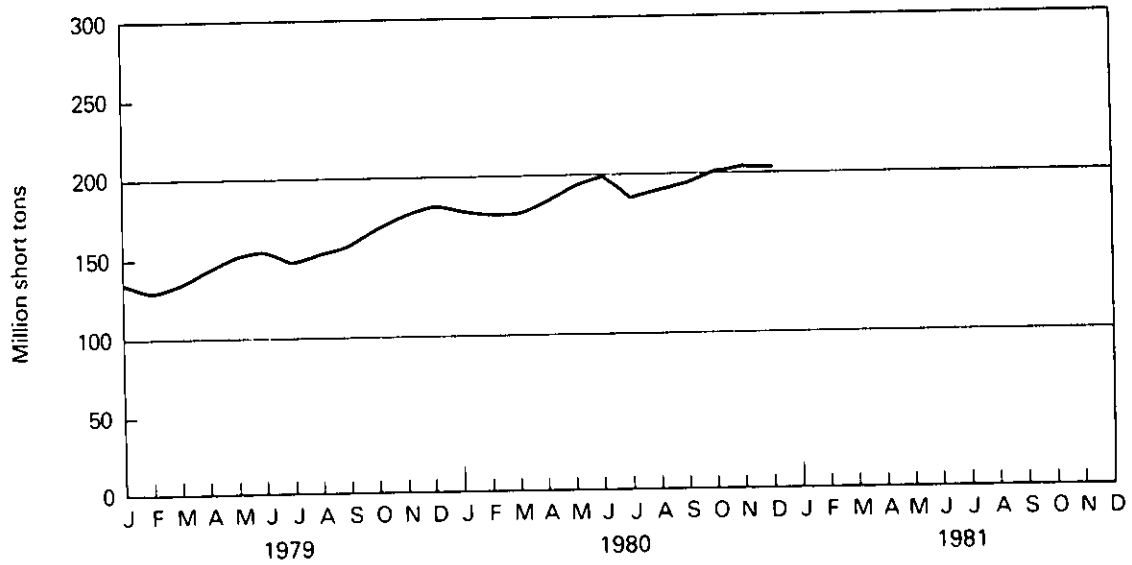
Coal

Bituminous Coal, Lignite, and Anthracite

Production, Consumption, Imports, and Exports



Stocks



Coal

Consumption—Bituminous Coal, Lignite, and Anthracite

| | | Industrial | | | | |
|---------------------|--------------|-----------------------|-----------------------------|---|----------------------------------|-----------------|
| | | Electric Utilities | Coke Plants ¹ | Other Industrial ² Including Transportation | Residential and Commercial | Total |
| Thousand short tons | | | | | | |
| 1973 | TOTAL | 389,212 | 94,101 | 68,154 | 11,117 | 562,584 |
| 1974 | TOTAL | 391,811 | 90,191 | 64,983 | 11,417 | 558,402 |
| 1975 | TOTAL | 405,962 | 83,598 | 63,670 | 9,410 | 562,641 |
| 1976 | TOTAL | 448,371 | 84,704 | 61,799 | 8,916 | 603,790 |
| 1977 | TOTAL | 477,126 | 77,739 | 61,472 | 8,954 | 625,291 |
| 1978 | TOTAL | 481,235 | 71,394 | 63,085 | 9,511 | 625,225 |
| 1979 | January | 46,902 | 6,578 | 6,428 | 1,291 | 61,199 |
| | February | 41,891 | 5,954 | 5,836 | 782 | 54,463 |
| | March | 41,781 | 6,850 | 5,617 | 616 | 54,864 |
| | April | 38,979 | 6,558 | 5,511 | 553 | 51,601 |
| | May | 41,532 | 6,725 | 5,269 | 500 | 54,026 |
| | June | 44,008 | 6,470 | 5,034 | 513 | 56,025 |
| | July | 48,216 | 6,513 | 5,223 | 445 | 60,397 |
| | August | 48,549 | 6,417 | 5,363 | 421 | 60,750 |
| | September | 42,167 | 6,334 | 5,159 | 559 | 54,219 |
| | October | 42,970 | 6,404 | 5,565 | 780 | 55,719 |
| | November | 42,980 | 6,138 | 5,946 | 933 | 55,997 |
| | December | 47,075 | 6,427 | 6,766 | 995 | 61,263 |
| | TOTAL | 527,051 | 77,368 | 67,717 | 8,388 | 680,524 |
| 1980 | January | R50,371 | 6,342 | 5,923 | 980 | R63,615 |
| | February | R47,512 | 6,010 | 5,380 | 858 | R59,760 |
| | March | 46,685 | 6,428 | 5,179 | 612 | 58,904 |
| | April | 40,692 | 6,247 | 5,132 | 570 | 52,641 |
| | May | 41,464 | 6,127 | 4,907 | 344 | 52,842 |
| | June | 45,821 | 5,326 | 4,688 | 272 | 56,107 |
| | July | R53,655 | 4,903 | 4,369 | 328 | R63,255 |
| | August | 53,214 | 4,878 | 4,487 | 310 | 62,889 |
| | September | 47,913 | 4,794 | 4,315 | 412 | 57,434 |
| | October | R45,092 | 5,107 | 6,175 | 850 | R57,224 |
| | November | 45,698 | 5,152 | 5,875 | 900 | 57,625 |
| | December | 51,157 | 5,346 | 6,075 | 1,150 | 63,728 |
| | TOTAL | R569,273 | 66,660 | 62,505 | 7,586 | R706,024 |
| 1981 | January | 54,357 | 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.
 R = Revised data. NA = Not available.
 Sources: • See Sources on the last page of this section.

Coal

Stocks ¹ — Bituminous Coal, Lignite, and Anthracite

| | Electric Utilities | Industrial | | Total ³ | |
|---------------------|-----------------------|-----------------------------|---------------------|--------------------|----------|
| | | Coke Plants ² | Other Industrial | | |
| Thousand 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 | January | 119,948 | 7,647 | 8,830 | 136,425 |
| | February | 114,394 | 6,763 | 7,885 | 129,042 |
| | March | 118,542 | 7,561 | 7,941 | 134,044 |
| | April | 125,776 | 8,482 | 8,070 | 142,328 |
| | May | 133,793 | 9,228 | 8,248 | 151,269 |
| | June | 136,627 | 10,051 | 8,728 | 155,406 |
| | July | 131,095 | 8,306 | 8,864 | 148,265 |
| | August | 134,257 | 9,021 | 9,509 | 152,787 |
| | September | 139,129 | 9,036 | 9,851 | 158,016 |
| | October | 149,949 | 9,724 | 9,960 | 169,633 |
| | November | 157,737 | 9,983 | 10,002 | 177,722 |
| | December | 159,714 | 10,155 | 11,777 | 181,646 |
| 1980 | January | R158,717 | 9,634 | 11,083 | R179,434 |
| | February | R157,124 | 9,263 | 10,389 | R176,776 |
| | March | 157,625 | 9,317 | 9,695 | 176,637 |
| | April | R165,817 | 9,579 | 9,907 | R185,303 |
| | May | R174,029 | 9,692 | 10,119 | R193,840 |
| | June | 178,959 | 9,913 | 10,332 | 199,204 |
| | July | R166,806 | 8,427 | 10,605 | R185,888 |
| | August | 171,891 | 7,866 | 10,878 | 190,635 |
| | September | 175,067 | 8,213 | 11,052 | 194,333 |
| | October | 182,045 | 8,488 | R11,125 | 201,658 |
| | November | 184,133 | 8,606 | 11,165 | 203,904 |
| | December | 183,010 | 9,067 | 11,165 | 203,242 |
| 1981 | January | 176,975 | 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).

R = Revised data.

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 522 (Exports).

Electric Utilities

January 1981 production of electricity by utilities was 205.2 billion kilowatt-hours, 2.6 percent above the January 1980 production level. Coal-fired production totaled 111.1 billion kilowatt-hours, and petroleum-fired production totaled 25.7 billion kilowatt-hours, and nuclear production totaled 23.4 billion kilowatt-hours. These figures reflect increases of 7.6, 3.0, and 18.3 percent, respectively, above the January 1980 output levels. Natural gas-fired production totaled 22.1 billion kilowatt-hours, and hydroelectric production totaled 22.4 billion kilowatt-hours, 16.2 and 11.6 percent, respectively, below the January 1980 levels.

Sales of electricity to all ultimate consumers in the United States in January 1981 totaled 188.3 billion kilowatt-hours, an increase of 7.2 percent from sales of the month before and 4.8 percent above January 1980 sales. Sales to residential consumers during January 1981 were 72.2 billion kilowatt-hours, 9.7 percent above sales for the corresponding month in 1980. Commercial sales were 42.1 billion kilowatt-hours, 6.4

percent more than the amount for January 1980. Sales to industrial consumers totaled 67.1 billion kilowatt-hours in January 1981, about 0.7 percent less than the January 1980 figure. In January 1981 other sales totaled 6.8 billion kilowatt-hours, 3.0 percent above the January 1980 level.

Electric utility petroleum consumption during January 1981 was 43.6 million barrels, a 1.6 percent increase from the January 1980 level. Coal consumption for January 1981 was 54.4 million tons, 7.8 percent above the January 1980 rate. During January 1981, consumption of natural gas by electric utilities was 231.6 billion cubic feet, 16.3 percent below the January 1980 consumption level.

On January 31, 1981, utility stocks of anthracite, bituminous coal, and lignite totaled 177.0 million tons. Stockpiles were 11.5 percent above the levels of January 1980.

Petroleum stocks (excluding petroleum coke) on January 31, 1981, totaled 128.2 million barrels, 4.3 percent below the levels for the same month of 1980.

Electric Utilities¹

Net Electricity Production by Primary Energy Source

| | | Coal ² | Petroleum ³ | Natural Gas | Nuclear | Hydro | Other ⁴ | Total |
|------------------------|--------------|-------------------|------------------------|-----------------|-----------------|-----------------|--------------------|-------------------|
| Million kilowatt-hours | | | | | | | | |
| 1973 | TOTAL | 847,651 | 314,343 | 340,858 | 83,479 | 272,083 | 2,294 | 1,860,710 |
| 1974 | TOTAL | 828,433 | 300,931 | 320,065 | 113,976 | 301,032 | 2,703 | 1,867,140 |
| 1975 | TOTAL | 852,786 | 289,095 | 299,778 | 172,505 | 300,047 | 3,437 | 1,917,649 |
| 1976 | TOTAL | 944,391 | 319,988 | 294,624 | 191,104 | 283,707 | 3,883 | 2,037,696 |
| 1977 | TOTAL | 985,219 | 358,179 | 305,505 | 250,883 | 220,475 | 4,063 | 2,124,323 |
| 1978 | TOTAL | 975,742 | 365,060 | 305,391 | 276,403 | 280,419 | 3,315 | 2,206,331 |
| 1979 | January | 94,986 | 39,474 | 22,093 | 27,792 | 25,021 | 326 | 209,692 |
| | February | 84,748 | 32,274 | 21,844 | 25,911 | 21,275 | 285 | 186,337 |
| | March | 85,220 | 22,076 | 24,916 | 24,335 | 25,921 | 382 | 182,849 |
| | April | 80,450 | 20,599 | 24,763 | 18,418 | 25,389 | 342 | 169,962 |
| | May | 86,149 | 21,470 | 26,135 | 15,025 | 28,939 | 350 | 178,069 |
| | June | 90,817 | 24,367 | 30,107 | 16,065 | 24,979 | 347 | 186,682 |
| | July | 97,879 | 25,750 | 34,676 | 20,825 | 22,761 | 364 | 202,255 |
| | August | 97,910 | 26,123 | 34,949 | 24,204 | 21,260 | 405 | 204,850 |
| | September | 85,664 | 22,509 | 31,442 | 21,804 | 18,978 | 354 | 180,751 |
| | October | 87,528 | 20,279 | 30,419 | 20,934 | 20,167 | 389 | 179,716 |
| | November | 87,456 | 23,380 | 24,661 | 19,255 | 22,367 | 387 | 177,506 |
| | December | 96,230 | 25,223 | 23,481 | 20,586 | 22,727 | 456 | 188,703 |
| | TOTAL | 1,075,037 | 303,525 | 329,485 | 255,155 | 279,783 | 4,387 | 2,247,372 |
| 1980 | January | R103,258 | R24,986 | R26,349 | 19,746 | R25,278 | 388 | R200,005 |
| | February | R98,151 | R24,781 | R24,755 | 19,277 | 21,378 | 373 | R188,715 |
| | March | R95,386 | R20,415 | R26,891 | 20,039 | 24,332 | 401 | R187,464 |
| | April | R83,562 | R16,025 | R24,181 | 18,794 | R25,748 | 410 | R168,720 |
| | May | R84,884 | R16,545 | R26,587 | 18,385 | R28,865 | 468 | R175,734 |
| | June | R93,692 | R18,020 | R31,295 | 18,322 | 27,656 | 445 | 189,430 |
| | July | R108,457 | R23,289 | R39,063 | 21,024 | R24,469 | 475 | R216,776 |
| | August | R107,580 | R24,885 | R37,647 | 24,333 | R20,431 | 517 | R215,393 |
| | September | R97,557 | R17,815 | R33,580 | R23,572 | 18,491 | 469 | R191,485 |
| | October | R91,196 | R15,858 | 28,592 | 24,510 | 17,866 | 533 | R178,555 |
| | November | R93,501 | R19,989 | R24,338 | 20,984 | 19,217 | R520 | R178,550 |
| | December | R104,339 | R23,386 | R22,961 | 22,130 | R22,290 | R506 | R195,613 |
| | TOTAL | R1,161,562 | R245,994 | R346,240 | R251,116 | R276,021 | R5,506 | R2,286,439 |
| 1981 | January | 111,148 | 25,724 | 22,081 | 23,368 | 22,355 | 540 | 205,217 |

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

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

¹Monthly data for 1980 have been revised and finalized.

²Includes bituminous coal, lignite, and anthracite.

³Includes fuel oil No. 2, No. 4, No. 5, No. 6, crude oil, kerosene, and petroleum coke.

⁴Includes geothermal, wood and waste.

Source: *Federal Power Commission Form 4, "Monthly Power Plant Report".

Electric Utilities

Electricity Sales¹

| | | Residential | Commercial | Industrial | Other ² | Total |
|------------------------|--------------|-----------------|-----------------|-----------------|--------------------|-------------------|
| Million kilowatt-hours | | | | | | |
| 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 | 70,489 | 1,928,845 |
| 1978 | TOTAL | 671,094 | 459,908 | 800,656 | 73,152 | 2,004,814 |
| 1979 | January | 69,939 | 40,362 | 68,324 | 6,762 | 185,387 |
| | February | 67,842 | 39,865 | 67,632 | 6,176 | 181,515 |
| | March | 59,314 | 38,123 | 69,783 | 6,029 | 173,249 |
| | April | 50,079 | 35,930 | 69,944 | 5,604 | 161,557 |
| | May | 45,730 | 36,398 | 71,798 | 5,625 | 159,551 |
| | June | 49,556 | 39,689 | 71,919 | 5,696 | 166,860 |
| | July | 58,606 | 42,773 | 70,984 | 5,976 | 178,339 |
| | August | 64,808 | 44,199 | 71,956 | 6,346 | 187,310 |
| | September | 59,703 | 42,498 | 71,014 | 6,425 | 179,641 |
| | October | 49,505 | 38,820 | 71,472 | 6,151 | 165,948 |
| | November | 49,617 | 36,711 | 69,780 | 6,163 | 162,271 |
| | December | 58,120 | 37,939 | 67,297 | 6,117 | 169,473 |
| | TOTAL | 682,819 | 473,307 | 841,903 | 73,070 | 2,071,101 |
| 1980 | January | R65,841 | R39,578 | R67,532 | R6,634 | R179,585 |
| | February | 64,503 | 39,600 | 68,384 | 6,171 | 178,658 |
| | March | 60,497 | 38,784 | 69,058 | 6,028 | 174,368 |
| | April | 51,749 | 36,436 | 68,007 | 5,510 | 161,703 |
| | May | 45,699 | 36,110 | 67,235 | 5,807 | 154,851 |
| | June | 52,267 | 40,129 | 66,739 | 5,737 | 164,872 |
| | July | 68,611 | 45,525 | 65,531 | 6,215 | 185,882 |
| | August | 74,893 | 47,679 | 67,377 | 6,255 | 196,205 |
| | September | 67,969 | 46,028 | 69,570 | 6,572 | 190,139 |
| | October | 54,012 | 40,478 | 69,414 | 6,174 | 170,078 |
| | November | 50,539 | 37,954 | 67,613 | 6,068 | 162,174 |
| | December | 60,775 | 39,846 | 68,517 | 6,469 | 175,607 |
| | TOTAL | R717,355 | R488,147 | R814,977 | R73,640 | R2,094,122 |
| 1981 | January | 72,240 | 42,120 | 67,087 | 6,830 | 188,277 |

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

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

¹Electricity sales to all ultimate consumers.

²Includes street lighting and transportation uses.

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 Utilities

Primary Energy Consumed to Produce Electricity¹

| | | Coal | | | | Petroleum | | | | Natural Gas | |
|-------------|--------------|---------------------|-----------------|---------------|-----------------|------------------|-----------------------|----------------|------------|---------------------|--------------------|
| | | Anthracite | Bituminous Coal | Lignite | Total | Steam | Gas Turb./ Int. Comb. | Total | Coke | Natural Gas | |
| | | Thousand short tons | | | | Thousand barrels | | | | 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 | January | 89 | 43,791 | 3,021 | 46,902 | 62,226 | 6,244 | 68,470 | 33 | 228,479 | |
| | February | 75 | 39,010 | 2,806 | 41,891 | 51,655 | 4,959 | 56,614 | 32 | 226,896 | |
| | March | 65 | 38,865 | 2,852 | 41,781 | 36,371 | 1,872 | 38,243 | 22 | 260,351 | |
| | April | 66 | 36,362 | 2,551 | 38,979 | 33,800 | 1,682 | 35,482 | 15 | 260,974 | |
| | May | 106 | 38,669 | 2,757 | 41,532 | 35,285 | 2,053 | 37,338 | 23 | 277,318 | |
| | June | 103 | 40,882 | 3,023 | 44,008 | 39,258 | 2,314 | 41,572 | 25 | 320,196 | |
| | July | 96 | 44,391 | 3,730 | 48,216 | 41,895 | 2,413 | 44,308 | 23 | 369,318 | |
| | August | 97 | 44,553 | 3,899 | 48,549 | 42,478 | 2,416 | 44,894 | 23 | 375,370 | |
| | September | 86 | 38,920 | 3,162 | 42,167 | 36,768 | 1,747 | 38,515 | 17 | 338,308 | |
| | October | 75 | 39,634 | 3,261 | 42,970 | 33,445 | 1,132 | 34,577 | 16 | 323,082 | |
| | November | 92 | 39,571 | 3,317 | 42,980 | 37,822 | 1,954 | 39,776 | 18 | 260,982 | |
| | December | 96 | 43,480 | 3,499 | 47,075 | 41,601 | 1,906 | 43,507 | 20 | 249,249 | |
| | TOTAL | 1,046 | 488,129 | 37,876 | 527,051 | 492,606 | 30,691 | 523,297 | 268 | 3,490,523 | |
| 1980 | January | 74 | R46,518 | 3,779 | R50,371 | R40,695 | 2,197 | 42,892 | 54 | R276,743 | |
| | February | 72 | 43,969 | 3,471 | 47,513 | R40,231 | R1,919 | 42,150 | 21 | R263,771 | |
| | March | 83 | 43,244 | 3,357 | 46,685 | R33,406 | R1,379 | 34,785 | 13 | R283,945 | |
| | April | 71 | 37,971 | 2,651 | 40,692 | R26,867 | 673 | 27,540 | 7 | 256,606 | |
| | May | 86 | 38,116 | 3,262 | 41,464 | R26,991 | R840 | 27,831 | 11 | R281,886 | |
| | June | 89 | 42,073 | 3,658 | 45,821 | R29,551 | R1,138 | 30,689 | 11 | 420,339 | |
| | July | 93 | R49,815 | 3,746 | R53,655 | R37,297 | R2,791 | 40,088 | 11 | R405,343 | |
| | August | 80 | 49,077 | 4,057 | 53,214 | R40,019 | R2,833 | 42,852 | 15 | R357,286 | |
| | September | 84 | 44,487 | 3,342 | 47,913 | R29,367 | R1,286 | 30,653 | 11 | R301,266 | |
| | October | 73 | R41,819 | 3,200 | R45,092 | R26,269 | 689 | 26,958 | 8 | R255,559 | |
| | November | 56 | 42,379 | 3,263 | 45,698 | R32,782 | 1,320 | 34,102 | 7 | R241,957 | |
| | December | 89 | 47,212 | 3,856 | 51,157 | R38,387 | R1,285 | 39,672 | 9 | | |
| | TOTAL | 951 | R526,680 | 41,642 | R569,274 | R402,863 | R18,351 | 421,214 | 179 | R3,681,595 | |
| 1981 | January | 81 | 55,304 | 3,972 | 54,357 | 41,556 | 2,027 | 43,583 | 10 | 231,606 | |

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

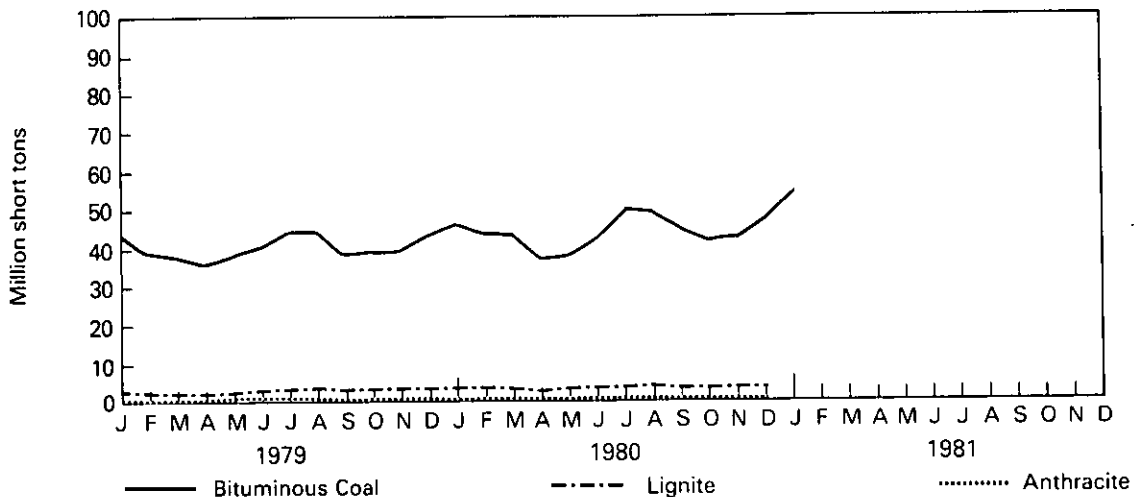
Totals may not equal sum of components due to independent rounding.

¹Monthly data for 1980 have been revised and finalized.

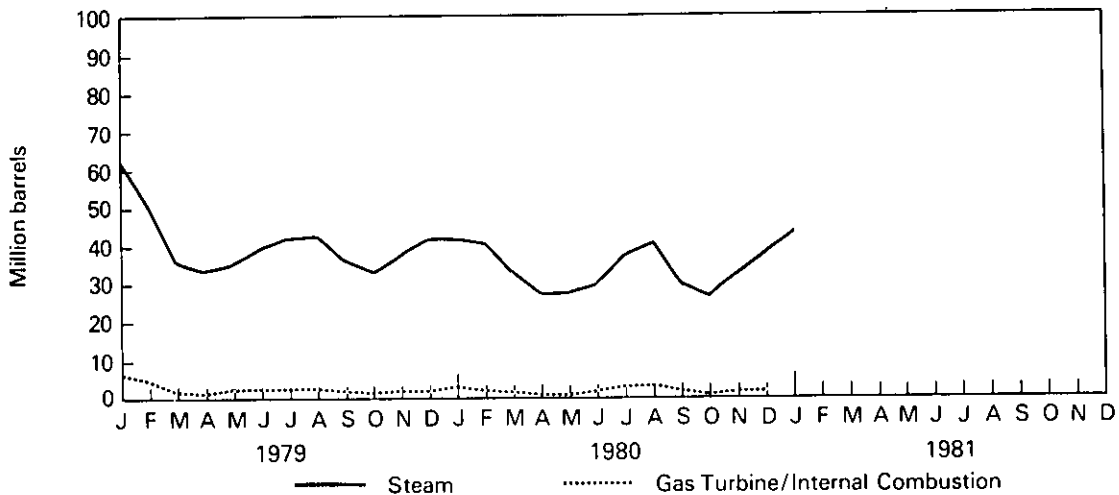
Source: • Federal Power Commission Form 4, "Monthly Power Plant Report."

Electric Utilities

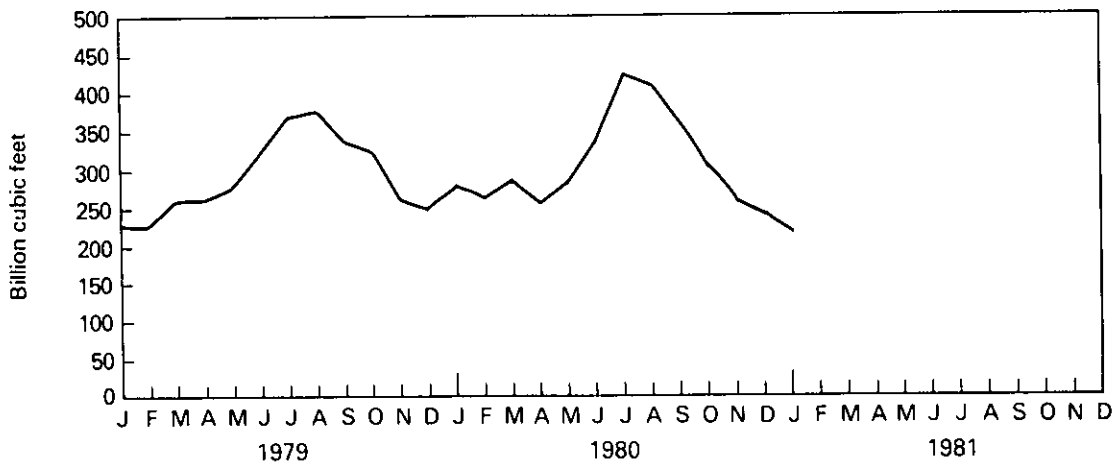
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



Electric Utilities

End-of-Month Coal and Petroleum Stocks¹

| | Coal | | | | Petroleum | | | | |
|-------------|---------------------|-----------------|---------------|-----------------|------------------|----------------|--------------------------|---------------------|------|
| | Anthracite | Bituminous Coal | | Lignite | Total | Steam | Gas Turb./ Int. Comb. | | Coke |
| | | Coal | | | | | Total | Total | |
| | Thousand short tons | | | | Thousand barrels | | | Thousand short tons | |
| 1973 | ‡1,066 | ‡84,941 | ‡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 | ‡107,927 | ‡1,815 | ‡110,724 | ‡108,825 | ‡16,432 | ‡125,257 | ‡31 | |
| 1976 | ‡1,000 | ‡114,130 | ‡2,306 | ‡117,436 | ‡106,993 | ‡14,703 | ‡121,696 | ‡32 | |
| 1977 | ‡2,321 | ‡128,210 | ‡2,688 | ‡133,219 | ‡124,750 | ‡19,281 | ‡144,031 | ‡44 | |
| 1978 | ‡2,178 | ‡123,020 | ‡3,027 | ‡128,225 | ‡102,402 | ‡16,386 | ‡118,788 | ‡198 | |
| 1979 | | | | | | | | | |
| January | 2,154 | 114,980 | 2,814 | 119,948 | 89,583 | 15,635 | 105,218 | 181 | |
| February | 2,136 | 109,532 | 2,726 | 114,394 | 82,078 | 15,541 | 97,619 | 166 | |
| March | 2,170 | 113,669 | 2,704 | 118,542 | 96,033 | 16,386 | 112,419 | 170 | |
| April | 2,220 | 120,876 | 2,680 | 125,776 | 99,500 | 16,835 | 116,335 | 170 | |
| May | 2,231 | 128,962 | 2,600 | 133,793 | 106,017 | 16,974 | 122,991 | 159 | |
| June | 2,233 | 131,898 | 2,495 | 136,627 | 104,513 | 17,180 | 121,693 | 150 | |
| July | 2,290 | 126,328 | 2,478 | 131,095 | 104,170 | 17,578 | 121,748 | 160 | |
| August | 2,328 | 128,760 | 3,170 | 134,257 | 103,965 | 17,910 | 121,875 | 163 | |
| September | 2,385 | 133,605 | 3,139 | 139,129 | 104,857 | 18,733 | 123,590 | 164 | |
| October | 2,452 | 144,035 | 3,462 | 149,949 | 109,590 | 19,410 | 129,000 | 170 | |
| November | 2,496 | 151,848 | 3,393 | 157,737 | 111,072 | 19,714 | 130,786 | 170 | |
| December | 3,274 | 152,981 | 3,459 | 159,714 | 111,121 | 20,301 | 131,422 | 183 | |
| 1980 | | | | | | | | | |
| January | 3,371 | R151,891 | 3,455 | R158,717 | R114,313 | R19,597 | 133,909 | 175 | |
| February | 3,451 | R150,151 | 3,522 | R157,124 | R111,353 | R19,055 | 130,409 | 168 | |
| March | 3,488 | 151,022 | 3,116 | 157,625 | R116,246 | R18,933 | 135,180 | 154 | |
| April | 3,533 | R158,441 | 3,843 | R165,817 | R118,824 | R19,201 | 138,025 | 103 | |
| May | 3,725 | R166,325 | 3,980 | R174,029 | R123,043 | R19,485 | 142,529 | 69 | |
| June | 3,838 | R171,042 | 4,079 | 178,959 | R124,177 | R19,273 | 143,450 | 65 | |
| July | 3,955 | R161,159 | 3,691 | R168,806 | R121,596 | R18,680 | 140,276 | 65 | |
| August | 4,098 | 163,756 | 4,036 | 171,891 | R118,514 | R18,150 | 136,664 | 63 | |
| September | 4,291 | 166,515 | 4,262 | 175,067 | R122,240 | R18,064 | 140,304 | 61 | |
| October | 4,481 | 173,411 | 4,153 | 182,045 | R124,046 | R18,398 | 142,445 | 60 | |
| November | 4,661 | 175,489 | 3,983 | 184,133 | R119,863 | R18,051 | 137,915 | 53 | |
| 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 | |

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

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

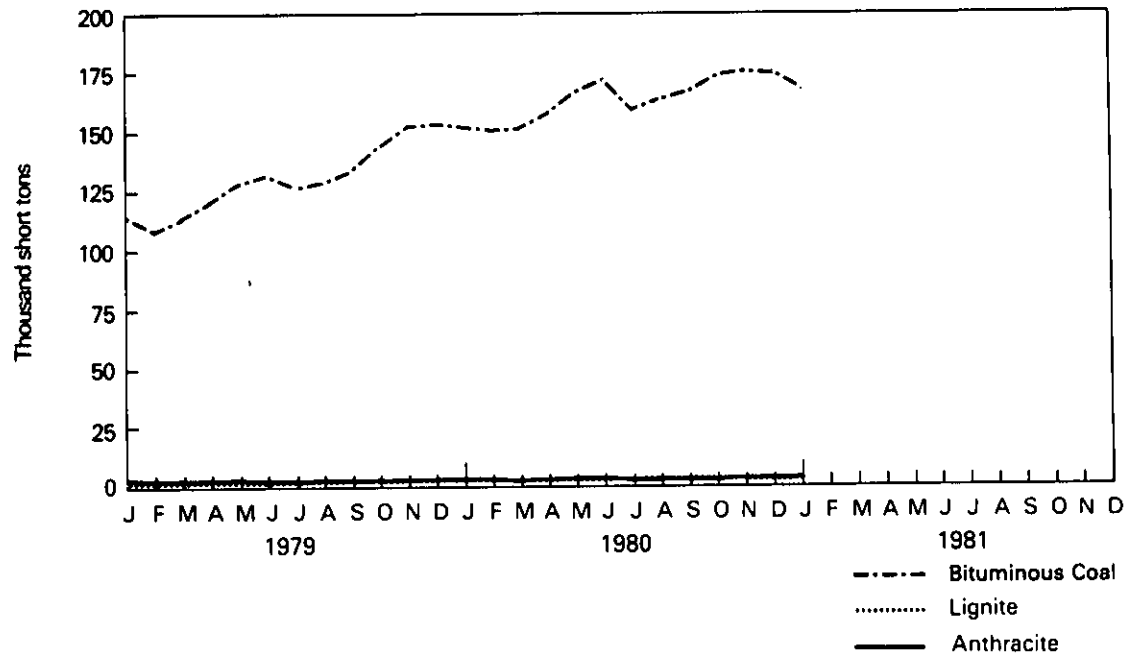
‡Total as of December 31.

¹Monthly data for 1980 have been revised and finalized.

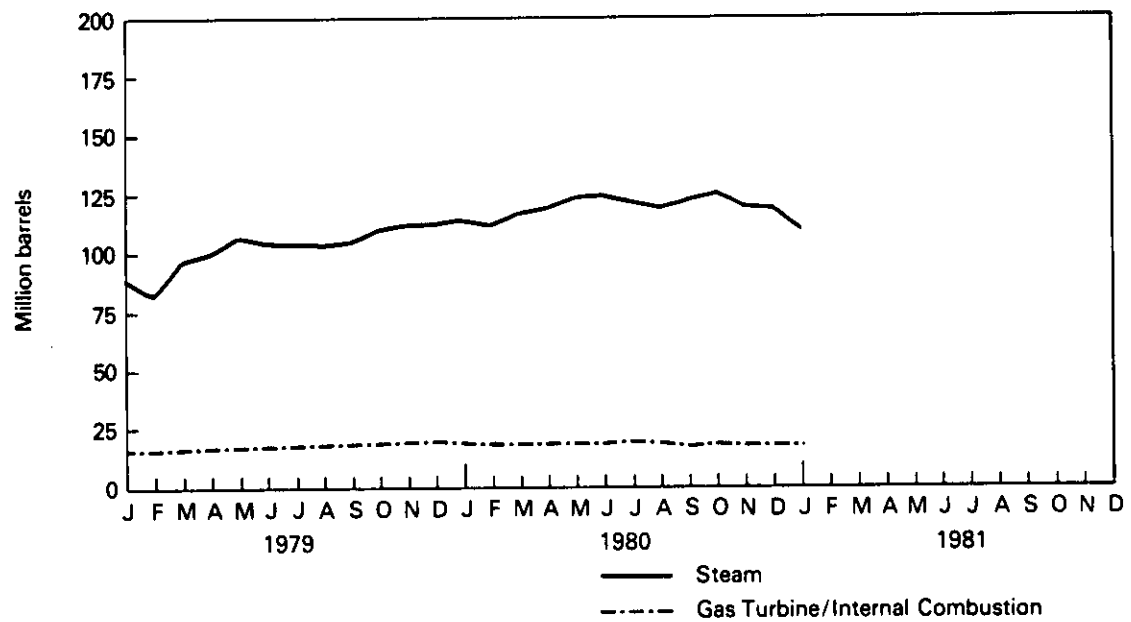
Source: • Federal Power Commission Form 4, "Monthly Power Plant Report."

Electric Utilities

Coal Stocks (Bituminous Coal, Lignite, and Anthracite)



Petroleum Stocks



Nuclear

During January 1981, operating domestic power reactors generated a total of 23.4 billion net kilowatt-hours of electricity. This was 5.6 percent greater than December 1980 output and 18.3 percent above the comparable output for January 1980.

In January 1981, the William B. McGuire nuclear unit 1 received a fuel loading and low-power testing license from the Nuclear Regulatory Commission (NRC). Also in January the Pacific Gas and Electric Company withdrew its application for restart of the Humboldt Bay reactor, which had been out of service since 1976. These two actions (i.e., one addition, and one deletion) leaves the number of domestic reactors licensed for commercial operation or for start-up at 75. Net capacity of the 75 licensed reactor units was 55.9 million kilowatts, up 2.0 percent from December 1980 capacity.

Two units (Three Mile Island-2 and Dresden-1) remain in indefinite suspension while 15 other units (Arkansas-1, Big Rock Point, Davis-Besse, Dresden-2, Farley-1, Hanford-1, Hatch-2, Indian Point-2, LaCrosse, Millstone-1, North Anna-1, Oconee-3, San Onofre-1, Surry-1 and Three Mile Island-1) generated no electricity or operated substantially below capacity in January. Two units, Farley-2 and Salem-2, were still in low-power testing in January, while Sequoyah-1 remained in power ascension.

Nuclear

Nuclear Powerplant Operations

| | | Reactors Licensed For Commercial Operation ¹ | Nuclear-Based Electricity Generation ² | Nuclear Portion of Domestic Electricity Generation | | Maximum Dependable Capacity ³ | Capacity Factor ⁴ |
|------|----------------|--|---|--|---------|--|---------------------------------|
| | | | | Million net kilowatt-hours | 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 | January | 71 | 27,792 | 13.3 | 50.771 | 73.6 | |
| | February | 71 | 25,911 | 13.9 | 50.720 | 76.0 | |
| | March | 71 | 24,335 | 13.3 | 50.720 | 64.5 | |
| | April | 71 | 18,418 | 10.8 | 50.705 | 50.5 | |
| | May | 71 | 15,025 | 8.4 | 50.705 | 39.8 | |
| | June | 71 | 16,065 | 8.6 | 50.705 | 44.0 | |
| | July | 71 | 20,825 | 10.3 | 50.759 | 55.1 | |
| | August | 71 | 24,204 | 11.8 | 50.732 | 64.1 | |
| | September | 71 | 21,804 | 12.1 | 50.781 | 59.6 | |
| | October | 71 | 20,934 | 11.6 | 50.814 | 55.7 | |
| | November | 71 | 19,255 | 10.8 | 49.917 | 53.6 | |
| | December | 71 | 20,586 | 11.0 | 49.937 | 55.4 | |
| | | 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 | R23,572 | 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 | R251,116 | 11.0 | 53.103 | 53.8 |
| 1981 | January | 75 | 23,368 | 11.4 | 55.853 | 56.2 | |

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

¹See next table (Reactor Status Table) for explanation and sources.

²Electricity generation entries represent yearly or monthly totals rather than averages.

³See Explanatory Note 11.

⁴Average percentage of Maximum Dependable Capacity utilized yearly or monthly.

R = Revised data.

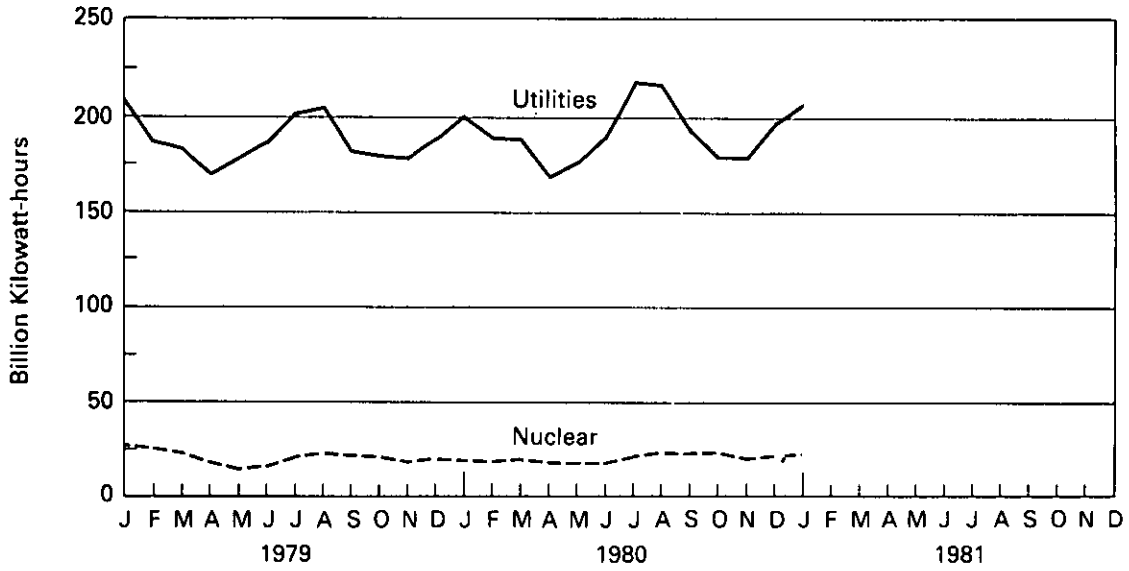
Sources: • Capacity data for units in commercial operation or start-up testing—Nuclear Regulatory Commission Report NUREG 0020, "Operating Units Status Report."

• Generation data—Federal Power Commission Form 4, "Monthly Power Plant Report."

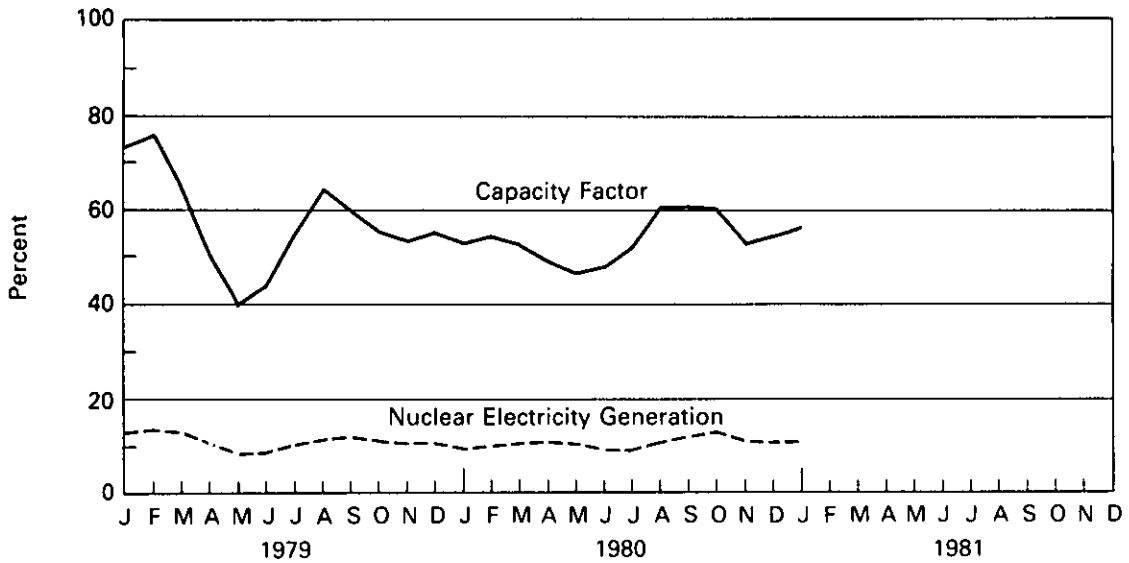
Nuclear

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 | January | 71 | 92 | 30 | 5 | 1 | 199 | 195 |
| | February | 71 | 92 | 28 | 5 | 1 | 197 | 193 |
| | March | 71 | 92 | 28 | 5 | 1 | 197 | 193 |
| | April | 71 | 92 | 27 | 5 | 0 | 195 | 190 |
| | May | 71 | 92 | 27 | 5 | 0 | 195 | 190 |
| | June | 71 | 92 | 27 | 5 | 0 | 195 | 190 |
| | July | 71 | 91 | 25 | 5 | 0 | 192 | 187 |
| | August | 71 | 91 | 25 | 5 | 0 | 192 | 187 |
| | September | 71 | 91 | 25 | 3 | 0 | 190 | 185 |
| | October | 71 | 91 | 25 | 3 | 0 | 190 | 185 |
| | November | 71 | 91 | 23 | 3 | 0 | 188 | 182 |
| | December | 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 | 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 |

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

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

²These 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, shut down due to an accident in March 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.

⁴See 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 \$28.52 per barrel in January 1981. The Alaskan North Slope price increased to \$15.10 per barrel. Actual stripper price of \$35.08 per barrel was a 0.6 percent increase over the December 1980 price. The Naval Petroleum Reserve crude oil price of \$30.29 per barrel increased 1.2 percent above the December 1980 level. The upper tier price of \$15.60 per barrel an increase of 3.3 percent above the previous month's figure, and the lower tier price of \$7.98 per barrel was 16.7 percent above the December 1980 price.

During January 1981, the composite refiner acquisition cost of crude oil was \$33.40 per barrel, \$2.0 per barrel (6.4 percent) above the previous month's price. The imported price increased \$1.96 per barrel from the December 1980 level to \$37.59 per barrel in January. This price was 5.5 percent above the previous month's level and 22.2 percent above the January 1980 level. The domestic price was \$30.87, an increase of \$2.32 per barrel (8.1 percent) above the December average.

Residual Fuel Oil

The average price, excluding taxes, for No. 6 residual fuel oil sold to utilities, industry, and other ultimate consumers in December 1980 was \$32.32 per barrel, \$2.16 above the previous month's price (7.2 percent) and 32.2 percent over the December 1979 average. The average price, excluding taxes, for No. 6 residual fuel oil sold to resellers, bulk plants, jobbers, and other wholesale accounts was \$29.81 per barrel, \$1.93 above (6.9 percent) the November 1980 average and a 26.6 percent increase over the December 1979 average.

Heating Oil

The national average price of heating oil sold to residential customers increased 7.8

cents in January 1981 to 114.3 cents per gallon. This was a 7.3 percent increase above the selling price in December 1980 and a 25.9 percent increase over the January 1980 price. The average residential distributor margin in January was 14.9 cents per gallon, 8.0 percent below the margin of January 1980. Refiners' national average selling price to resellers and retailers was 95.1 cents per gallon, 26.8 percent above the January 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 December 1980 was 91.5 cents per gallon, or 0.5 cents (0.5 percent) above the previous month's average and a 26.6 percent increase over the December 1979 average.

Motor Gasoline

The national average retail price for all grades and all types of motor gasoline was 135.3 cents per gallon in February 1981. Leaded regular gasoline at all types of stations sold for an average of 132.1 cents per gallon in February, 8.3 cents higher (6.7 percent) than the price in January. The price for unleaded regular gasoline at all types of stations was 138.2 cents per gallon in February, 8.4 cents higher (6.5 percent) than the price in January.

Liquefied Petroleum Gases

The average wholesale price for propane during December 1980, excluding taxes, was 46.6 cents per gallon, 1.5 cents above the previous month's level, or 3.3 percent, and 15.3 percent above the December 1979 level.

In December 1980, the average wholesale price for butane, excluding taxes, was 68.9 cents per gallon, 5.2 percent above the previous month's revised price and 4.7 percent above the December 1979 average.

Price

Petroleum Price Summary

| | Actual Domestic Average Wellhead Price ¹ | Refiner Acquisition Cost of Crude Oil ² | | | No. 6 Residual Oil Price Average ³ | |
|---------------------|---|--|--------------|--------------|---|---------------------|
| | | Domestic | Imported | Composite | Wholesale ⁴ | Retail ⁴ |
| Dollars per barrel | | | | | | |
| 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 | | | | | | |
| January | 9.46 | 11.02 | 15.50 | 13.11 | 12.78 | 14.13 |
| February | 9.69 | 11.34 | 15.88 | 13.42 | 13.72 | 14.68 |
| March | 9.83 | 11.45 | 16.41 | 13.70 | 14.82 | 15.95 |
| April | 10.33 | 12.06 | 17.58 | 14.52 | 15.51 | 16.61 |
| May | 10.71 | 12.41 | 19.00 | 15.40 | 15.71 | 17.18 |
| June | 11.70 | 13.24 | 21.03 | 17.00 | 17.81 | 17.97 |
| July | 13.39 | 14.61 | 23.09 | 18.58 | 19.18 | 19.89 |
| August | 14.00 | 15.73 | 23.98 | 19.75 | 19.00 | 20.33 |
| September | 14.57 | 16.05 | 25.06 | 20.14 | 19.62 | 20.90 |
| October | 15.11 | 16.93 | 25.05 | 20.68 | 20.88 | 21.59 |
| November | 15.52 | 17.65 | 27.02 | 22.04 | 22.00 | 22.84 |
| December | 17.03 | 18.84 | 28.91 | 23.63 | 23.55 | 24.44 |
| 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 | 23.91 | 26.68 |
| November | 23.92 | 26.51 | 35.09 | 29.79 | 27.88 | 30.16 |
| December | R25.80 | 28.55 | 35.63 | 31.39 | †29.81 | †32.32 |
| AVERAGE | R21.19 | 24.23 | 33.89 | 28.07 | 23.04 | 26.09 |
| 1981 | | | | | | |
| January† | 28.52 | 30.87 | 37.59 | 33.40 | 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.

¹See Explanatory Note 12.

²See Explanatory Note 13. Crude oil costs and volumes reported on the Economic Regulatory Administration (ERA) Form 49 exclude unfinished oils but include Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported on the FEA Form P110-M-1 include unfinished oils but exclude SPR. Imported averages derived from ERA Form 49 exclude crude oil purchased for Strategic Petroleum Reserve (SPR), whereas, the composite averages derived from the ERA Form 49 include SPR.

³Wholesale 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.

⁴Excludes 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 forward: ERA Form 49, "Domestic Crude Oil Entitlements Program Refiners Monthly 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 Diesel Price Average ¹ | | No. 2 Heating Oil Price Average | | Gasoline Price Average All Grades ² | Propane Price Average ³ | Butane Price Average ³ | |
|---------------------|---|---------------------|---------------------------------|-------------|--|------------------------------------|-----------------------------------|--------------|
| | Wholesale ⁴ | Retail ⁴ | Wholesale | Retail | Retail | Wholesale ⁴ | Wholesale ⁴ | |
| Cents per gallon | | | | | | | | |
| 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 | January | 39.7 | 43.0 | 42.1 | 53.7 | 69.5 | 22.4 | 24.9 |
| | February | 41.8 | 46.1 | 44.5 | 56.3 | 70.7 | 21.8 | 28.5 |
| | March | 44.5 | 47.9 | 47.0 | 58.8 | 73.3 | 21.2 | 32.5 |
| | April | 47.7 | 50.6 | 49.3 | 61.1 | 78.0 | 22.0 | 35.4 |
| | May | 53.4 | 56.1 | 52.6 | 64.2 | 82.3 | 24.2 | 39.5 |
| | June | 58.7 | 65.0 | 56.9 | 69.1 | 88.0 | 27.9 | 46.9 |
| | July | 62.4 | 68.9 | 61.1 | 73.8 | 93.0 | 29.3 | 51.1 |
| | August | 66.0 | 72.3 | 64.6 | 78.4 | 96.7 | 30.8 | 48.0 |
| | September | 69.0 | 71.8 | 67.8 | 81.0 | 99.8 | 33.3 | 51.9 |
| | October | 71.1 | 74.8 | 68.1 | 82.3 | 100.6 | 35.2 | 56.1 |
| | November | 70.3 | 72.1 | 69.0 | 83.7 | 101.9 | 37.6 | 57.0 |
| | December | 73.0 | 80.7 | 70.8 | 85.8 | 104.2 | 40.4 | 65.8 |
| | 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 | R85.9 | 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 | †93.4 | R91.3 | R106.5 | 123.1 | 46.6 | 68.9 |
| | AVERAGE | R81.2 | R87.4 | 82.2 | R97.8 | 122.1 | R42.6 | R61.8 |
| 1981 | January | NA | NA | †98.4 | †114.3 | 126.9 | NA | NA |
| | February | NA | NA | NA | NA | 135.3 | NA | NA |
| | AVERAGE | 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.

¹Wholesale 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 sell to customers.

²See Explanatory Note 16.

³Wholesale 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.

⁴Excludes tax.

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

Sources: *No. 2 diesel price, FEA Form P302-M-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 average, Bureau of Labor Statistics.

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

Price

Domestic Prices and Percentages of Crude Oil Purchased at the Wellhead¹

| | Incremental Tertiary ² | | Newly Discovered ² | | Marginal Property ² | | Heavy Crude ² | | Other Decontrolled Oil ² | | Tertiary Incentive ² | | | | | | | | | | | | | |
|----------------------|-----------------------------------|-------------|-------------------------------|--------------|--------------------------------|-------------|--------------------------|--------------|-------------------------------------|---------------|---------------------------------|--------------|-------|------|-------|------|-------|------|--|--|--|--|--|--|
| | Dollars per barrel | | | | | | | | | | | | | | | | | | | | | | | |
| | Price | Percent | Price | Percent | Price | Percent | Price | Percent | Price | Percent | Price | Percent | | | | | | | | | | | | |
| 1976 AVERAGE | Not Applicable | | | | | | | | | | | | | | | | | | | | | | | |
| 1977 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | |
| 1978 AVERAGE | | | | | | | | | | | | | | | | | | | | | | | | |
| 1979 January | | | | | | | | | | | | | | | | | | | | | | | | |
| February | | | | | | | | | | | | | | | | | | | | | | | | |
| March | | | | | | | | | | | | | | | | | | | | | | | | |
| April | | | | | | | | | | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | 11.98 | 0.05 | 22.97 | 0.61 | 13.16 | 0.81 | | | | | | |
| July | | | | | | | | | | | | | 15.09 | 0.02 | 26.60 | 1.12 | 13.28 | 1.13 | | | | | | |
| August | 16.14 | 0.15 | 26.63 | 1.66 | 13.37 | 1.33 | | | | | | | | | | | | | | | | | | |
| September | 17.89 | 0.06 | 30.38 | 2.38 | 13.67 | 3.08 | 16.77 | 2.82 | 12.54 | NA | 24.89 | NA | | | | | | | | | | | | |
| October | 14.21 | (0.01) | 31.92 | 3.04 | 13.55 | 3.39 | 17.12 | 3.46 | 13.08 | NA | 21.07 | NA | | | | | | | | | | | | |
| November | 26.17 | NA | 33.86 | 3.24 | 13.70 | 3.11 | 18.61 | 3.28 | 11.33 | NA | NA | NA | | | | | | | | | | | | |
| December | 15.80 | (0.03) | 37.59 | 3.61 | 13.83 | 3.05 | 23.62 | 4.04 | 10.05 | NA | NA | NA | | | | | | | | | | | | |
| 1980 January | 31.14 | 0.01 | 39.04 | 3.86 | 14.01 | 3.16 | 26.43 | 4.24 | 33.37 | 2.15 | 28.18 | NA | | | | | | | | | | | | |
| February | 26.33 | 0.01 | 38.68 | 4.33 | 13.90 | 2.71 | 25.70 | 5.13 | 33.11 | 4.79 | 36.47 | 0.01 | | | | | | | | | | | | |
| March | 29.82 | 0.01 | 38.97 | 4.76 | 14.07 | 2.52 | 25.55 | 5.15 | 32.91 | 7.42 | 39.00 | 0.04 | | | | | | | | | | | | |
| April | 34.94 | 0.04 | 38.67 | 5.20 | 14.12 | 2.99 | 25.57 | 4.96 | 33.03 | 9.89 | 37.52 | 0.12 | | | | | | | | | | | | |
| May | 34.46 | 0.03 | 39.07 | 5.53 | 14.21 | 2.79 | 25.42 | 5.38 | 32.97 | 12.52 | 34.60 | 0.43 | | | | | | | | | | | | |
| June | 33.72 | 0.02 | 38.93 | 5.96 | 14.37 | 2.75 | 25.87 | 5.34 | 32.39 | 14.58 | 30.29 | 0.53 | | | | | | | | | | | | |
| July | 21.87 | 0.00 | 38.72 | 6.33 | 14.37 | 2.91 | 25.63 | 5.88 | 32.81 | 16.94 | 30.34 | 0.68 | | | | | | | | | | | | |
| August | 33.39 | 0.03 | 37.82 | 6.73 | 14.65 | 2.53 | 25.49 | 5.77 | 30.80 | 20.10 | 33.48 | 0.78 | | | | | | | | | | | | |
| September | 27.75 | 0.15 | 35.95 | 6.79 | 14.83 | 2.18 | 25.45 | 5.58 | 30.57 | 22.24 | 31.53 | 0.90 | | | | | | | | | | | | |
| October | 29.79 | 0.04 | 35.77 | 7.56 | 14.77 | 2.00 | 25.30 | 5.80 | 30.22 | 24.76 | 30.68 | 1.24 | | | | | | | | | | | | |
| November | 32.74 | 0.09 | 35.77 | 8.54 | 14.87 | 1.88 | 25.05 | 5.86 | 30.13 | 27.82 | 30.51 | 1.38 | | | | | | | | | | | | |
| December | R30.78 | 0.05 | R36.61 | R8.55 | 15.05 | R1.68 | 26.06 | R6.05 | R31.85 | R30.72 | R33.03 | R3.09 | | | | | | | | | | | | |
| AVERAGE | R30.87 | 0.04 | R37.59 | R6.16 | 14.37 | 2.51 | 25.61 | R5.42 | R31.45 | R16.07 | R32.06 | R0.76 | | | | | | | | | | | | |
| 1981 January† | 32.95 | 0.09 | 37.52 | 9.23 | 15.55 | 1.38 | 26.84 | 6.43 | 32.53 | 36.93 | 34.69 | 6.36 | | | | | | | | | | | | |

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

¹See Explanatory Note 12.

²See Definitions.

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

Note: Parentheses indicate negative adjustment to recertify production as heavy oil.

Source: • Economic Regulatory Administration Form 182, "Domestic Crude Oil First Purchase Report."

Price

Domestic Prices and Percentages of Crude Oil Purchased at the Wellhead¹ (continued)

| | Lower Tier ² | | Upper Tier ³ | | Actual Stripper ³ | | Alaskan North Slope ⁴ | | Naval Petroleum Reserve ⁵ | | Actual Domestic Average | |
|---------------------|-------------------------|--------------|-------------------------|--------------|------------------------------|---------------|----------------------------------|--------------|--------------------------------------|---------------|-------------------------|---------------|
| | Dollars per barrel | | | | | | | | | | | |
| | Price | Percent | Price | Percent | Price | Percent | Price | Percent | Price | Percent | Price | Price |
| 1976 AVERAGE | 5.13 | 54.4 | 11.71 | 31.5 | 12.16 | 14.1 | NA | NA | NA | NA | 8.19 | |
| 1977 AVERAGE | 5.19 | 45.92 | 11.22 | 36.11 | 13.59 | 13.32 | 6.35 | 4.14 | 12.34 | 0.51 | 8.57 | |
| 1978 AVERAGE | 5.46 | 37.54 | 12.15 | 34.41 | 13.95 | 14.03 | 5.22 | 12.96 | 12.85 | 1.08 | 9.00 | |
| 1979 | January | 5.75 | 35.51 | 12.66 | 34.25 | 14.55 | 14.14 | 5.79 | 14.88 | 13.10 | 1.20 | 9.46 |
| | February | 5.76 | 35.20 | 12.78 | 34.97 | 14.88 | 15.08 | 5.87 | 13.71 | 13.94 | 1.01 | 9.69 |
| | March | 5.82 | 34.59 | 12.84 | 34.56 | 14.88 | 14.95 | 6.66 | 14.58 | 13.97 | 1.29 | 9.83 |
| | April | 5.85 | 33.98 | 12.94 | 34.93 | 16.71 | 15.27 | 7.45 | 14.52 | 14.56 | 1.28 | 10.33 |
| | May | 5.91 | 33.55 | 13.02 | 34.77 | 17.53 | 15.62 | 8.47 | 14.71 | 15.85 | 1.32 | 10.71 |
| | June | 5.95 | 29.32 | 13.14 | 38.22 | 20.24 | 15.97 | 8.97 | 13.64 | 16.02 | 1.34 | 11.70 |
| | July | 5.98 | 26.96 | 13.25 | 37.49 | 24.76 | 16.01 | 13.35 | 15.86 | 20.13 | 1.38 | 13.39 |
| | August | 6.09 | 26.03 | 13.33 | 36.72 | 25.71 | 16.93 | 14.14 | 15.82 | 20.77 | 1.33 | 14.00 |
| | September | 6.09 | 23.52 | 13.53 | 33.89 | 27.09 | 16.55 | 13.09 | 16.08 | 20.85 | 1.57 | 14.57 |
| | October | 6.12 | 23.46 | 13.56 | 32.58 | 29.42 | 16.20 | 13.12 | 16.27 | 21.01 | 1.57 | 15.11 |
| | November | 6.09 | 23.11 | 13.68 | 32.76 | 30.64 | 15.35 | 13.48 | 17.49 | 26.48 | 1.61 | 15.52 |
| | December | 6.21 | 22.31 | 13.76 | 32.52 | 34.99 | 16.34 | 13.60 | 16.51 | 29.04 | 1.60 | 17.03 |
| | AVERAGE | 5.95 | 28.91 | 13.20 | 34.79 | 22.93 | 15.71 | 10.57 | 15.36 | 19.40 | 1.38 | 12.64 |
| 1980 | January | 6.24 | 21.19 | 13.86 | 31.12 | 36.02 | 15.61 | 13.77 | 17.06 | 28.94 | 1.54 | 17.86 |
| | February | 6.37 | 20.52 | 14.03 | 29.45 | 36.14 | 15.82 | 13.77 | 15.73 | 34.96 | 1.44 | 18.81 |
| | March | 6.35 | 19.83 | 13.99 | 28.22 | 36.26 | 15.18 | 13.77 | 15.30 | 34.67 | 1.55 | 19.34 |
| | April | 6.37 | 18.71 | 14.18 | 25.87 | 36.54 | 15.80 | 14.07 | 14.75 | 33.81 | 1.61 | 20.29 |
| | May | 6.47 | 17.62 | 14.29 | 25.21 | 36.11 | 15.43 | 14.36 | 13.48 | 34.16 | 1.56 | 21.01 |
| | June | 6.51 | 16.99 | 14.42 | 23.19 | 35.53 | 16.14 | 14.14 | 12.94 | 34.00 | 1.49 | 21.53 |
| | July | 6.55 | 16.39 | 14.57 | 21.88 | 36.26 | 16.02 | 14.26 | 11.35 | 33.27 | 1.58 | 22.26 |
| | August | 6.60 | 14.79 | 14.60 | 20.50 | 35.71 | 15.83 | 14.38 | 11.28 | 32.96 | 1.61 | 22.63 |
| | September | 6.66 | 14.76 | 14.79 | 19.57 | 33.94 | 15.89 | 14.51 | 10.37 | 32.45 | 1.50 | 22.59 |
| | October | 6.78 | 14.12 | 14.91 | 17.41 | 33.93 | 16.04 | 14.64 | 9.44 | 32.68 | 1.53 | 23.23 |
| | November | 6.79 | 13.25 | 14.92 | 15.68 | 34.42 | 15.70 | 14.53 | 8.52 | 31.40 | 1.21 | 23.92 |
| | December | R6.84 | R10.92 | R15.10 | R13.63 | R34.88 | R16.36 | 15.02 | R7.81 | R29.93 | R1.10 | R25.80 |
| | AVERAGE | 6.51 | R16.62 | 14.37 | R22.70 | R35.48 | R15.82 | 14.18 | R12.36 | R32.85 | R1.48 | R21.59 |
| 1981 | January† | 7.98 | 7.84 | 15.60 | 9.40 | 35.08 | 16.21 | 15.10 | 4.99 | 30.29 | 1.09 | 28.52 |

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

¹See Explanatory Note 12.

²See Definitions.

³Stripper oil was exempt from price controls beginning September 1, 1976. From February through August 1976 stripper oil was subject to upper tier price ceilings. Annual average is for 12 months (January through December 1976).

⁴Alaskan North Slope (ANS) crude oil prices are treated as Upper Tier for determining the applicable wellhead ceiling prices. ANS is included in the Actual Domestic Average price determination.

⁵The Naval Petroleum Reserves (NPR) are exempt from pricing regulations but have been reported here as Upper Tier prior to July 1977. NPR is included in the Actual Domestic Average price determination.

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

Sources: • January 1976: FEA Form 90, "Crude Petroleum Production Monthly Report."

• February 1976 forward: Economic Regulatory Administration Form 182, "Domestic Crude Oil First Purchase Report."

Price

FOB Cost of Crude Oil Imports from Selected Countries¹

| | | Algeria | Indonesia | Iran | Libya | Mexico | Nigeria | Saudi Arabia | United Arab Emirates | United Kingdom | Venezuela |
|--------------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|----------------|--------------|
| Dollars per barrel | | | | | | | | | | | |
| 1976 | AVERAGE | 13.05 | 12.76 | 11.61 | 12.55 | NA | 13.08 | 11.69 | 11.94 | NA | 11.32 |
| 1977 | AVERAGE | 14.36 | 13.57 | 12.67 | 13.90 | 13.42 | 14.44 | 12.37 | 12.83 | NA | 12.68 |
| 1978 | AVERAGE | 14.10 | 13.64 | 12.65 | 13.75 | 13.24 | 14.04 | 12.70 | 13.24 | 13.82 | 12.45 |
| 1979 | January | 14.87 | 14.06 | 12.55 | 14.60 | 13.94 | 14.84 | 13.26 | 13.98 | 15.41 | 13.69 |
| | February | 14.89 | 14.18 | 12.56 | 15.15 | 14.17 | 14.98 | 13.47 | 14.28 | 15.33 | 13.26 |
| | March | 15.54 | 14.42 | 19.04 | 16.46 | 14.14 | 15.07 | 13.61 | 15.72 | 16.13 | 13.88 |
| | April | 16.80 | 15.98 | 17.96 | 17.40 | 17.02 | 18.18 | 14.77 | 16.24 | 17.40 | 14.58 |
| | May | 19.14 | 16.84 | 17.27 | 19.13 | 18.56 | 20.02 | 14.62 | 17.38 | 18.39 | 15.76 |
| | June | 21.04 | 18.59 | 19.95 | 20.87 | 17.43 | 22.11 | 17.98 | 18.91 | 20.88 | 16.01 |
| | July | 22.42 | 20.95 | 21.99 | 23.88 | 22.29 | 24.46 | 18.54 | 21.33 | 23.14 | 18.22 |
| | August | 23.44 | 21.65 | 21.40 | 24.93 | 22.56 | 25.43 | 18.32 | 21.45 | 23.88 | 18.66 |
| | September | 23.60 | 22.11 | 27.27 | 25.17 | 22.32 | 25.77 | 18.72 | 22.93 | 22.93 | 18.14 |
| | October | 24.40 | 24.39 | 31.80 | 27.39 | 24.43 | 26.33 | 21.44 | 21.85 | 25.09 | 22.36 |
| | November | 26.38 | 23.72 | 28.81 | 29.60 | 24.50 | 28.17 | 23.72 | 24.15 | 27.57 | 19.27 |
| | December | 28.67 | 25.29 | 35.13 | 31.86 | 24.50 | 29.82 | 22.99 | 27.90 | 25.89 | 20.62 |
| | 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 |
| | May | 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 ² | 36.26 | 24.34 |
| | August | 37.53 | 33.01 | NA | 37.01 | 31.87 | 36.69 | 29.74 | NA ² | 34.83 | 25.30 |
| | September | 37.21 | 33.13 | NA | 36.94 | 31.21 | 36.38 | 30.34 | NA ² | 35.18 | 24.21 |
| | October | 37.60 | 32.31 | NA | 37.15 | 31.27 | 36.82 | 30.19 | NA ² | 35.66 | 22.71 |
| | November | 37.05 | 32.94 | NA | 36.90 | 31.59 | 36.87 | 31.43 | NA ² | 35.47 | 26.83 |
| | December | 37.37 | 33.21 | NA | 37.58 | 32.33 | 36.79 | 32.01 | NA ² | 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† | 39.23 | 37.20 | NA | 39.65 | 36.05 | 40.19 | 32.58 | NA | 39.15 | 34.69 |

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

¹The FOB cost excludes all costs related to insurance and transportation. See Explanatory Note 14.

²FOB cost of crude oil imports from United Arab Emirates is not published this month due to insufficient response to survey questionnaire.

NA = Not available.

†Preliminary 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

| | | Algeria | Canada | Indonesia | Iran | Libya | Mexico | Nigeria | Saudi Arabia | United Arab Emirates | United Kingdom | Venezuela |
|--------------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|----------------|--------------|
| Dollars per 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 | January | 15.88 | 16.19 | 15.29 | 13.76 | 15.81 | 14.51 | 15.88 | 14.73 | 15.53 | 16.29 | 14.16 |
| | February | 16.18 | 16.68 | 15.62 | 14.25 | 16.49 | 14.76 | 16.13 | 14.88 | 16.05 | 16.07 | 14.17 |
| | March | 16.61 | 17.18 | 15.68 | 19.54 | 17.56 | 14.81 | 16.20 | 15.28 | 17.10 | 15.91 | 14.61 |
| | April | 17.93 | 17.39 | 17.31 | 19.06 | 18.59 | 17.40 | 19.11 | 16.18 | 17.70 | 18.23 | 15.19 |
| | May | 20.22 | 20.22 | 17.92 | 18.56 | 20.16 | 18.82 | 21.06 | 16.29 | 18.65 | 19.26 | 16.74 |
| | June | 22.52 | 19.12 | 20.11 | 21.27 | 22.21 | 17.85 | 23.23 | 19.49 | 20.42 | 21.64 | 16.80 |
| | July | 23.54 | 20.22 | 22.50 | 23.35 | 25.48 | 22.74 | 25.79 | 20.06 | 22.84 | 23.96 | 18.95 |
| | August | 24.85 | 22.67 | 23.10 | 22.64 | 26.27 | 23.12 | 26.72 | 19.85 | 23.12 | 25.05 | 19.42 |
| | September | 25.09 | 25.64 | 23.72 | 28.36 | 26.54 | 23.23 | 27.03 | 20.36 | 24.59 | 24.18 | 18.99 |
| | October | 25.59 | 23.54 | 26.36 | 33.17 | 28.56 | 24.98 | 27.41 | 22.99 | 23.98 | 26.39 | 23.05 |
| | November | 27.95 | 26.01 | 25.37 | 30.44 | 30.38 | 25.12 | 29.41 | 25.19 | 25.95 | 29.10 | 20.13 |
| | December | 29.99 | 26.32 | 26.84 | 36.64 | 33.29 | 25.31 | 31.21 | 24.48 | 29.93 | 27.07 | 21.72 |
| | 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 ² | 37.25 | 25.47 |
| | August | 38.60 | 31.44 | 34.81 | NA | 38.38 | 32.62 | 37.77 | 31.24 | NA ² | 36.20 | 26.37 |
| | September | 38.28 | 30.97 | 34.64 | NA | 38.30 | 31.93 | 37.60 | 31.86 | NA ² | 36.35 | 25.47 |
| | October | 38.77 | 29.22 | 33.65 | NA | 38.53 | 31.96 | 37.75 | 31.73 | NA ² | 36.82 | 23.92 |
| | November | 38.41 | 28.81 | 34.55 | NA | 38.22 | 32.42 | 37.97 | 32.86 | NA ² | 36.62 | 27.75 |
| | December | 38.63 | 32.72 | 34.64 | NA | 39.04 | 33.76 | 38.11 | 33.40 | NA ² | 36.31 | 27.66 |
| | AVERAGE | 37.90 | 30.47 | 33.92 | 30.37 | 37.72 | 31.80 | 37.05 | 30.02 | 32.89 | 35.88 | 25.86 |
| 1981 | January† | 41.01 | 33.39 | 38.44 | NA | 41.15 | 37.02 | 41.33 | 34.34 | NA | 40.96 | 35.55 |

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

¹See Explanatory Note 15.

²Landed cost of crude oil imports from United Arab Emirates is not published this month due to insufficient response to survey questionnaire.

NA = Not available. †Preliminary 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

| Crude Oil Entitlements and Supply Ratio | | | | | Unrecouped Costs for Refined Products for 29 Largest Refiners | | |
|---|-----------|----------------------------------|--------------------------------|--|---|-----------------------------|-------|
| | | Entitlement Benefit ¹ | Entitlement Price ¹ | National Old Oil (or Domestic Crude Oil) Supply Ratio ¹ | Motor Gasoline | Other Products ² | Total |
| | | Dollars per barrel | | | Million Dollars | | |
| 1979 | January | 1.56 | 8.74 | 0.178 | 836 | 863 | 1,699 |
| | February | 1.67 | 9.03 | 0.185 | 1,110 | 878 | 1,988 |
| | March | 1.80 | 9.50 | 0.189 | 1,551 | 837 | 2,388 |
| | April | 2.06 | 10.53 | 0.196 | 2,067 | 1,649 | 3,716 |
| | May | 2.44 | 11.74 | 0.208 | 2,245 | 1,848 | 4,093 |
| | June | 3.01 | 13.70 | 0.220 | 2,507 | 1,973 | 4,480 |
| | July | 3.54 | 16.01 | 0.221 | 2,990 | 2,089 | 5,079 |
| | August | 3.78 | 17.26 | 0.218 | 2,856 | 2,347 | 5,203 |
| | September | 3.92 | 17.97 | 0.218 | 3,151 | 2,376 | 5,527 |
| | October | 4.00 | 18.27 | 0.219 | 3,094 | 2,295 | 5,389 |
| | November | 4.39 | 20.12 | 0.218 | 3,492 | 2,302 | 5,794 |
| | December | 4.71 | 21.91 | 0.215 | 3,724 | 1,171 | 4,895 |
| 1980 | January | 5.28 | 23.53 | 0.224 | 4,115 | 1,189 | 5,304 |
| | February | 5.14 | 24.70 | 0.208 | 5,362 | 1,167 | 6,529 |
| | March | 5.05 | 25.26 | 0.200 | 6,236 | 1,213 | 7,445 |
| | April | 5.10 | 25.74 | 0.198 | 6,202 | 1,391 | 7,593 |
| | May | 6.22 | 27.39 | 0.227 | NA | NA | NA |
| | June | 5.44 | 27.32 | 0.199 | NA | NA | NA |
| | July | 5.04 | 27.26 | 0.185 | NA | NA | NA |
| | August | 4.75 | 26.86 | 0.177 | NA | NA | NA |
| | September | 3.52 | 26.07 | 0.135 | NA | NA | NA |
| | October | 3.13 | 26.08 | 0.120 | NA | NA | NA |
| | November | 2.60 | 26.55 | 0.098 | NA | NA | NA |
| | December | 1.52 | 27.06 | 0.056 | NA | NA | NA |
| 1981 | January | NA | NA | NA | NA | NA | NA |

Geographic coverage: the 50 United States, District of Columbia, Puerto Rico, Guam, and the Virgin Islands.

¹See Definitions.

²Other includes propane, butane, natural gasoline, some natural gas liquids, and aviation jet fuel in January and February 1979 when aviation jet fuel was decontrolled. From March 1979 to December 1979, it includes butane, natural gasoline, propane and some natural gas liquids. Since January 1980, when butane and natural gasoline were decontrolled, only propane and some natural gas liquids are included in this category.

NA = Not available.

Sources: • Crude oil entitlements, Economic Regulatory Administration Form 49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report."

• Unrecouped costs: EIA Form 14, "Refiners' Monthly Cost Allocation Report." Data provided by the Economic Regulatory Administration.

Price

U.S. City Average Retail Prices for Motor Gasoline¹

| | | Leaded Regular | Unleaded Regular | Leaded Premium | Average for All Grades |
|---------------------------------|----------------|-------------------|---------------------|-------------------|------------------------------|
| Cents per gallon, 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 | January | 66.8 | 71.6 | 73.7 | 69.5 |
| | February | 68.1 | 73.0 | 75.0 | 70.7 |
| | March | 70.6 | 75.5 | 77.4 | 73.3 |
| | April | 75.3 | 80.2 | 82.4 | 78.0 |
| | May | 79.7 | 84.4 | 86.7 | 82.3 |
| | June | 85.6 | 90.1 | 92.0 | 88.0 |
| | July | 90.8 | 94.9 | 96.5 | 93.0 |
| | August | 94.3 | 98.8 | 100.4 | 96.7 |
| | September | 97.3 | 102.0 | 103.6 | 99.8 |
| | October | 98.2 | 102.8 | 104.6 | 100.6 |
| | November | 99.4 | 104.1 | 105.6 | 101.9 |
| | December | 101.8 | 106.5 | 108.0 | 104.2 |
| | AVERAGE | 85.7 | 90.3 | 92.2 | 88.2 |
| 1980 | January | 108.6 | 113.1 | 114.9 | 111.0 |
| | February | 115.9 | 120.7 | 123.3 | 118.6 |
| | March | 120.2 | 125.2 | 127.7 | 123.0 |
| | April | 121.2 | 126.4 | 129.2 | 124.2 |
| | May | 121.5 | 126.6 | 129.5 | 124.4 |
| | June | 121.7 | 126.9 | 130.0 | 124.6 |
| | July | 121.6 | 127.1 | 130.7 | 124.7 |
| | August | 121.0 | 126.7 | 131.0 | 124.3 |
| | September | 119.7 | 125.7 | 130.4 | 123.1 |
| | October | 118.8 | 125.0 | 130.1 | 122.3 |
| | November | 118.8 | 125.0 | 129.9 | 122.2 |
| | December | 119.7 | 125.8 | 131.0 | 123.1 |
| | AVERAGE | 119.1 | 124.5 | 128.1 | 122.1 |
| 1981 | January | 123.8 | 129.8 | 133.8 | 126.9 |
| | February | 132.1 | 138.2 | 141.0 | 135.3 |

Geographic coverage: 1974 through 1977—56 suburban areas; 1978 forward—85 urban areas.

¹ See Explanatory Note 16.

Source: Bureau of Labor Statistics.

Price

Aviation Fuel

| | | Aviation Gasoline | | Naphtha-Type ¹ | Kerosene-Type | |
|---------------------------------|----------------|------------------------|---------------------|---------------------------|------------------------|---------------------|
| | | Wholesale ² | Retail ² | Retail ² | Wholesale ² | Retail ² |
| Cents per gallon, excluding 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 | January | 54.1 | 53.9 | 38.6 | 42.2 | 40.1 |
| | February | 54.6 | 55.1 | 39.1 | 44.3 | 40.2 |
| | March | 56.6 | 56.8 | 40.7 | 54.8 | 41.3 |
| | April | 58.2 | 59.1 | 43.2 | 60.1 | 45.4 |
| | May | 60.6 | 61.2 | 44.1 | 58.1 | 48.4 |
| | June | 64.8 | 66.8 | 49.5 | 59.9 | 50.9 |
| | July | 70.0 | 71.8 | 50.4 | 67.1 | 58.2 |
| | August | 74.2 | 75.6 | 55.0 | 71.4 | 60.8 |
| | September | 78.2 | 79.0 | 60.2 | 73.1 | 65.9 |
| | October | 79.8 | 80.4 | 64.6 | 80.6 | 68.4 |
| | November | 81.3 | 80.6 | 66.4 | 83.4 | 69.7 |
| | December | 84.1 | 83.4 | 73.3 | 83.2 | 72.3 |
| | AVERAGE | 68.5 | 69.5 | 52.3 | 66.5 | 55.1 |
| 1980 | January | 90.6 | 90.0 | 76.0 | 83.4 | 77.0 |
| | February | 98.5 | 97.8 | 80.1 | 86.2 | 83.0 |
| | March | 102.9 | 107.0 | 84.1 | 86.6 | 86.3 |
| | April | 104.8 | 109.6 | 83.2 | 88.4 | 87.4 |
| | May | 106.2 | 109.7 | 89.1 | 89.0 | 87.6 |
| | June | 107.7 | 111.4 | 90.0 | 86.1 | 88.6 |
| | July | 109.3 | 113.4 | 91.4 | 88.3 | 89.7 |
| | August | 110.2 | 112.9 | 90.6 | 86.2 | 90.7 |
| | September | 110.8 | 113.3 | 92.9 | 86.4 | 88.8 |
| | October | 110.8 | 113.0 | 91.1 | 87.6 | 88.7 |
| | November | 112.4 | 113.0 | 92.5 | 89.9 | R91.0 |
| | December† | 115.1 | 117.0 | 96.4 | 91.5 | 91.5 |
| | AVERAGE | 107.2 | 109.4 | 88.2 | 87.6 | 87.4 |

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

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

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

†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 Distributor Margin on Residential Heating Oil ² | Average Selling Price to Residential Customers ² |
|------------------|----------------|--|---|--|---|
| Cents per gallon | | | | | |
| 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 | January | 40.9 | 42.1 | 11.8 | 53.7 |
| | February | 43.1 | 44.5 | 12.0 | 56.3 |
| | March | 45.8 | 47.0 | 12.0 | 58.8 |
| | April | 48.3 | 49.3 | 12.1 | 61.1 |
| | May | 53.2 | 52.6 | 12.1 | 64.2 |
| | June | 58.8 | 56.9 | 12.7 | 69.1 |
| | July | 62.5 | 61.1 | 13.0 | 73.8 |
| | August | 65.7 | 64.6 | 13.0 | 78.4 |
| | September | 69.0 | 67.8 | 13.7 | 81.0 |
| | October | 68.6 | 68.1 | 14.8 | 82.3 |
| | November | 70.0 | 69.0 | 15.1 | 83.7 |
| | December | 71.7 | 70.8 | 15.5 | 85.8 |
| | AVERAGE | 55.9 | 53.0 | 12.8 | 65.6 |
| 1980 | January | 75.0 | 75.2 | 16.2 | 90.8 |
| | February | 77.8 | 79.0 | 16.7 | 95.3 |
| | March | 78.8 | 80.4 | 17.1 | 97.1 |
| | April | 78.8 | 81.0 | 17.0 | 97.4 |
| | May | 79.3 | 81.4 | 16.3 | 97.2 |
| | June | 80.2 | 82.5 | 15.8 | 97.9 |
| | July | 79.2 | 83.0 | 15.3 | 97.9 |
| | August | 79.3 | 82.9 | 15.2 | 97.9 |
| | September | 79.3 | 83.0 | 15.4 | 98.1 |
| | October | 80.7 | 83.7 | 15.3 | 98.7 |
| | November | 84.0 | 86.1 | 13.8 | 101.1 |
| | December | R88.6 | R91.3 | R14.1 | R106.5 |
| | AVERAGE | 80.0 | 82.2 | R15.8 | R97.8 |
| 1981 | January† | 95.1 | 98.4 | 14.9 | 114.3 |

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

¹See Explanatory Note 17.

²Average selling prices, purchase prices, and dealer margins represent sales for residential heating oil only.

R = Revised data. †Preliminary 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 1976 through October 1980." EIA-9A, "No. 2 Distillate Price Monitoring Report" for November 1980 forward.

Price

Residential Heating Oil Prices by Region

| | | DOE Region ¹ | | | | | | | | | |
|-------------|-----------|-------------------------|--------|--------|--------|------------------|----|-------|--------|-------|--------|
| | | 1 | 2 | 3 | 4 | Cents per gallon | | 7 | 8 | 9 | 10 |
| | | | | | | 5 | 6 | | | | |
| 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 | R108.2 | R108.5 | R105.3 | R106.6 | R103.4 | NA | R99.6 | R101.8 | NA | R105.6 |
| 1981 | January† | 115.8 | 116.7 | 113.3 | 115.5 | 110.5 | NA | 106.2 | 108.4 | NA | 107.6 |

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

| | | 0.0 to 0.3 percent sulfur | | 0.31 to 1.0 percent sulfur | | Greater than 1.0 percent sulfur | | Average | |
|-------------------------------------|----------------|------------------------------|--------------|-------------------------------|--------------|------------------------------------|--------------|----------------|--------------|
| | | Whole- sale | Retail | Whole- sale | Retail | Whole- sale | Retail | Whole- sale | Retail |
| Dollars per barrel, excluding taxes | | | | | | | | | |
| 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 | January | 15.16 | 16.12 | 13.68 | 14.79 | 11.00 | 11.92 | 12.78 | 14.13 |
| | February | 16.12 | 17.28 | 15.01 | 15.30 | 11.31 | 12.28 | 13.72 | 14.68 |
| | March | 16.08 | 18.05 | 15.90 | 16.94 | 13.48 | 14.00 | 14.82 | 15.95 |
| | April | 17.79 | 19.09 | 16.34 | 17.44 | 13.70 | 14.59 | 15.51 | 16.61 |
| | May | 18.04 | 19.45 | 15.74 | 17.89 | 14.69 | 15.37 | 15.71 | 17.18 |
| | June | 20.92 | 19.79 | 18.08 | 18.51 | 15.95 | 16.40 | 17.81 | 17.97 |
| | July | 21.85 | 23.07 | 21.25 | 20.47 | 16.51 | 17.86 | 19.18 | 19.89 |
| | August | 21.05 | 22.63 | 19.49 | 21.28 | 17.51 | 18.32 | 19.00 | 20.33 |
| | September | 21.81 | 22.92 | 21.01 | 21.66 | 17.54 | 18.94 | 19.62 | 20.90 |
| | October | 23.80 | 23.29 | 22.99 | 22.33 | 18.31 | 19.53 | 20.88 | 21.59 |
| | November | 26.68 | 25.54 | 24.07 | 24.31 | 19.31 | 19.51 | 22.00 | 22.84 |
| | December | 27.09 | 27.78 | 25.83 | 25.01 | 20.67 | 21.05 | 23.55 | 24.44 |
| | AVERAGE | 19.87 | 21.21 | 18.33 | 19.33 | 15.89 | 16.44 | 17.66 | 18.67 |
| 1980 | January | 29.11 | 30.35 | 26.15 | 28.12 | 21.56 | 21.98 | 24.41 | 26.21 |
| | February | 27.07 | 30.32 | 25.82 | 28.15 | 20.21 | 22.22 | 23.34 | 26.48 |
| | March | 26.88 | 30.20 | 23.73 | 27.29 | 17.81 | 20.34 | 21.11 | 25.33 |
| | April | 25.16 | 28.69 | 20.38 | 24.78 | 16.41 | 18.36 | 19.09 | 22.87 |
| | May | 25.48 | 31.73 | 22.72 | 25.77 | 17.72 | 18.04 | 20.22 | 23.75 |
| | June | 23.14 | 31.37 | 22.35 | 25.44 | 17.72 | 19.27 | 20.44 | 24.09 |
| | July | 24.89 | 28.51 | 23.44 | 25.55 | 19.20 | 20.58 | 21.28 | 23.86 |
| | August | 23.20 | 30.93 | 24.98 | 26.11 | 20.42 | 21.45 | 22.25 | 25.00 |
| | September | 24.27 | 33.12 | 23.46 | 26.31 | 20.62 | 21.71 | 22.47 | 25.31 |
| | October | 24.29 | 31.88 | 25.86 | 28.00 | 22.30 | 23.29 | 23.91 | 26.72 |
| | November | 27.38 | 33.70 | 29.40 | R30.89 | 27.08 | 27.50 | R27.86 | 30.16 |
| | December† | 31.66 | 35.75 | 31.51 | 32.50 | 28.39 | 29.91 | 29.81 | 32.32 |
| | AVERAGE | 26.10 | 31.13 | 24.84 | 27.56 | 20.77 | 22.01 | 23.04 | 26.09 |

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

| | | Average Wellhead Value | Delivered to Electric Plant ¹ | Average Residential Heating |
|-------------------------------|----------------|------------------------------|---|-----------------------------------|
| 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 | January | 102.0 | 154.7 | 292.9 |
| | February | 104.9 | 164.8 | 295.6 |
| | March | 109.5 | 168.6 | 300.6 |
| | April | 110.6 | 169.6 | 299.6 |
| | May | 115.0 | 182.2 | 314.9 |
| | June | 116.6 | 183.9 | 320.0 |
| | July | 119.6 | 184.0 | 328.4 |
| | August | 123.6 | 187.0 | 330.8 |
| | September | 123.5 | 189.4 | 341.4 |
| | October | 128.1 | 195.7 | 352.8 |
| | November | 128.7 | 186.9 | 347.6 |
| | December | 131.0 | 190.0 | 351.9 |
| | 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 | 152.2 | 245.6 | 413.1 |
| | September | 155.7 | 245.6 | 417.0 |
| | October | 158.5 | 253.4 | 420.6 |
| | November | 162.2 | 238.4 | 396.1 |
| | December | 160.9 | 232.7 | 403.3 |
| | AVERAGE | 149.1 | 212.8 | 391.5 |
| 1981 | January | NA | NA | 406.9 |

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

¹Includes 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 Prices ¹ | | | | |
|-------------|----------------|--|------------------------------|-----------------------------|-------------------------------------|--|-------------|-------------|-------------|--------------------|
| | | Coal | Residual Oil ² | Natural Gas ³ | All Fossil Fuels ² | Residential | Commercial | Industrial | Other | Total ⁴ |
| | | Cents per million Btu | | | | Cents per kilowatt-hour | | | | |
| 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 | January | 115.8 | 228.1 | 150.2 | 150.4 | 4.07 | 4.28 | 2.81 | 3.55 | 3.64 |
| | February | 114.6 | 240.6 | 159.1 | 154.3 | 4.09 | 4.30 | 2.85 | 3.73 | 3.66 |
| | March | 116.8 | 258.8 | 163.0 | 152.3 | 4.28 | 4.44 | 2.91 | 3.87 | 3.76 |
| | April | 120.1 | 264.6 | 164.7 | 151.4 | 4.51 | 4.54 | 2.92 | 3.87 | 3.82 |
| | May | 121.1 | 274.1 | 177.5 | 158.0 | 4.69 | 4.65 | 2.98 | 3.98 | 3.91 |
| | June | 121.8 | 289.3 | 179.5 | 161.2 | 4.88 | 4.73 | 3.04 | 4.05 | 4.03 |
| | July | 122.2 | 311.8 | 178.9 | 168.7 | 4.92 | 4.77 | 3.13 | 4.22 | 4.15 |
| | August | 122.5 | 323.5 | 180.9 | 167.1 | 4.94 | 4.79 | 3.13 | 3.88 | 4.18 |
| | September | 125.3 | 333.5 | 183.5 | 167.9 | 4.96 | 4.84 | 3.15 | 4.07 | 4.19 |
| | October | 127.4 | 346.1 | 189.1 | 167.3 | 5.01 | 4.94 | 3.19 | 4.07 | 4.19 |
| | November | 127.7 | 363.1 | 180.3 | 171.5 | 4.84 | 4.92 | 3.19 | 4.14 | 4.14 |
| | December | 129.2 | 394.8 | 183.3 | 183.8 | 4.72 | 4.90 | 3.27 | 4.19 | 4.18 |
| | AVERAGE | 122.4 | 299.7 | 175.4 | 162.1 | 4.64 | 4.68 | 3.05 | 3.96 | 3.99 |
| 1980 | January | 128.7 | 423.5 | 194.8 | 187.3 | 4.69 | 4.90 | R3.32 | 4.19 | R4.21 |
| | February | 129.9 | 429.7 | 203.9 | 189.8 | 4.74 | 4.96 | 3.31 | 4.64 | 4.24 |
| | March | 130.1 | 411.0 | 207.9 | 184.8 | 4.92 | 5.17 | 3.45 | 4.69 | 4.40 |
| | April | 133.8 | 394.9 | 204.0 | 178.2 | 5.14 | 5.28 | 3.49 | 4.71 | 4.48 |
| | May | 133.3 | 403.1 | 212.0 | 180.3 | 5.41 | 5.44 | 3.59 | 4.97 | 4.63 |
| | June | 135.1 | 392.7 | 209.3 | 178.8 | 5.60 | 5.61 | 3.79 | 4.58 | 4.85 |
| | July | 137.4 | 394.5 | 228.5 | 199.0 | 5.66 | 5.65 | 3.93 | 4.93 | 5.03 |
| | August | 139.5 | 404.9 | 237.2 | 196.2 | 5.72 | 5.64 | 3.94 | 4.81 | 5.07 |
| | September | 138.9 | 411.3 | 238.7 | 193.5 | 5.71 | 5.73 | 3.88 | 4.95 | 5.03 |
| | October | 138.1 | 452.2 | 245.7 | 192.2 | 5.68 | 5.84 | 3.84 | 4.88 | 4.95 |
| | November | 139.3 | 496.0 | 231.3 | 200.0 | 5.61 | 5.71 | 3.85 | 5.06 | 4.89 |
| | December | 137.8 | 521.9 | 226.3 | 206.6 | 5.49 | 5.69 | 3.88 | 4.82 | 4.90 |
| | AVERAGE | 135.2 | 427.9 | 212.9 | 189.3 | 5.36 | 5.48 | 3.69 | 4.76 | 4.73 |
| 1981 | January | NA | NA | NA | NA | 5.44 | 5.73 | 3.94 | 4.92 | 4.96 |

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

¹Prices 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.

⁴Average price for total sales to ultimate consumers.

R = Revised data. NA = Not available.

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."

International

Crude Oil Production

World crude oil production during December 1980 was 58.0 million barrels per day, up 1.4 million barrels per day from the November level.

OPEC output during December increased 1.0 million barrels per day from the November level. Average production from Arab members of OPEC increased 0.4 million barrels per day. In December, due to the Iran-Iraq conflict, both nations continued low output levels. Iran was producing at 1.4 million barrels per day and Iraq at 0.5 million barrels per day. These were increases relative to the November levels of 0.6 and 0.1 million barrels per day for Iran and Iraq, respectively. Kuwait and Venezuela showed increases also at 0.3 and 0.1 million barrels per day, respectively. Other OPEC nations maintained production in December at about the same levels as the previous month's level.

Production by non-OPEC nations increased to 32.9 million barrels per day in December. This increase of 0.4 million barrels per day from the previous month resulted primarily due to higher levels of production from Australia and Mexico. These increases were 0.2 and 0.1 million barrels per day, respectively from November averages.

Petroleum Consumption

Petroleum consumption by International Energy Agency (IEA) member nations was 32.2 million barrels per day during October 1980. This preliminary figure was an increase of 0.2 million barrels per day from the consumption rate during September

1980, and a 3.3 million barrels per day decrease from the October 1979 rate of 35.5 million barrels per day.

Preliminary consumption data for January 1981 were available for France, Italy, and the United States. All three nations showed lower consumption levels in January from the previous month. The United States had the most significant decrease of these of almost 0.5 million barrels per day. January through October data, however, indicate a significant decline in the consumption rates for the group of IEA nations, as compared to the same period in 1979.

Nuclear Electricity Production

In January 1981, the non-Communist world generated 65.3 billion gross kilowatt-hours of nuclear-based electricity, an increase of 8.5 percent over December 1980 output and an increase of 18.0 percent over January 1980 production. U.S. gross nuclear electricity generation in January 1981 was 25.7 billion kilowatt-hours, about 39 percent of the total "free world" generation for that month.

As of January 31, 1981, 18 non-Communist nations operated a total of 212 power reactors which were authorized to generate electricity commercially. In particular, the number of foreign units increased by 3 (to 137) with the addition of two French reactors, Dampierre-3 and St. Laurent-des-Eaux-B1, and one Swedish unit, Forsmark-2. The number of U.S. units remained unchanged (with McGuire-1 added and Humboldt Bay deleted) at 75. The combined generating capacity of the 212 "free world" units was 134.9 million gross kilowatts, up 6.1 percent from the December 1980 level. Of this capacity, 75.2 million gross kilowatts, or 55.7 percent, was associated with non-U.S. units.

International

Crude Oil Production for Major Petroleum Exporting Countries

| | | Algeria | Iraq | Kuwait ¹ | Libya | Qatar | Saudi Arabia ¹ | United Arab Emirates | Arab Members of OPEC ² | Indonesia | Iran |
|--------------------------|----------------|--------------|--------------|---------------------|--------------|------------|---------------------------|----------------------|-----------------------------------|--------------|--------------|
| Thousand barrels per day | | | | | | | | | | | |
| 1973 | AVERAGE | 1,070 | 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 | January | 1,235 | 3,535 | 2,605 | 2,165 | 550 | 9,790 | 1,840 | 21,720 | 1,600 | 410 |
| | February | 1,235 | 3,535 | 2,695 | 2,150 | 555 | 9,780 | 1,835 | 21,785 | 1,615 | 760 |
| | March | 1,235 | 3,535 | 2,580 | 2,070 | 370 | 9,780 | 1,830 | 21,400 | 1,625 | 2,190 |
| | April | 1,235 | 3,535 | 2,535 | 2,060 | 550 | 8,790 | 1,755 | 20,460 | 1,605 | 3,800 |
| | May | 1,235 | 3,535 | 2,575 | 2,040 | 540 | 8,780 | 1,860 | 20,565 | 1,565 | 4,100 |
| | June | 1,235 | 3,535 | 2,575 | 2,015 | 455 | 8,780 | 1,870 | 20,465 | 1,610 | 3,950 |
| | July | 1,035 | 3,335 | 2,540 | 2,070 | 520 | 9,780 | 1,835 | 21,115 | 1,600 | 3,750 |
| | August | 1,035 | 3,335 | 2,515 | 2,080 | 535 | 9,770 | 1,835 | 21,105 | 1,595 | 3,600 |
| | September | 1,035 | 3,335 | 2,365 | 2,020 | 455 | 9,780 | 1,840 | 20,830 | 1,575 | 3,600 |
| | October | 1,035 | 3,335 | 2,365 | 2,030 | 490 | 9,725 | 1,785 | 20,765 | 1,570 | 3,930 |
| | November | 1,035 | 3,335 | 2,435 | 2,085 | 525 | 9,795 | 1,870 | 21,080 | 1,570 | 3,170 |
| | December | 1,035 | 3,335 | 2,240 | 2,090 | 545 | 9,775 | 1,875 | 20,895 | 1,565 | 3,000 |
| | 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 | R1,385 | 1,665 | 440 | 10,255 | 1,675 | 16,540 | R1,585 | 600 |
| | November | 1,000 | 350 | R1,505 | 1,680 | 475 | 10,265 | 1,695 | 16,930 | R1,630 | 800 |
| | December | 1,000 | 450 | 1,779 | 1,680 | 483 | 10,260 | 1,706 | 17,360 | 1,617 | 1,360 |
| | AVERAGE | 1,037 | 2,514 | 1,657 | 1,787 | 472 | 9,896 | 1,709 | 19,070 | 1,577 | 1,662 |

Note: Data for 1980 are preliminary.

¹Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In December 1980 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 | Venezuela | Total OPEC ³ | Canada | Mexico | United Kingdom | United States | China | USSR | Other ⁴ | World |
|--------------------------|-----------|---------|-----------|-------------------------|--------|--------|----------------|---------------|--------|--------|--------------------|---------|
| Thousand barrels per day | | | | | | | | | | | | |
| 1973 | AVERAGE | 2,054 | 3,366 | 30,961 | 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 | January | 2,440 | 2,265 | 28,880 | 1,450 | 1,395 | 1,465 | 8,475 | 2,120 | 11,370 | 4,725 | 59,880 |
| | February | 2,430 | 2,345 | 29,380 | 1,575 | 1,400 | 1,505 | 8,525 | 2,120 | 11,370 | 4,595 | 60,470 |
| | March | 2,440 | 2,425 | 30,515 | 1,405 | 1,310 | 1,335 | 8,601 | 2,120 | 11,370 | 5,214 | 61,870 |
| | April | 2,420 | 2,385 | 31,095 | 1,510 | 1,400 | 1,460 | 8,553 | 2,120 | 11,510 | 4,862 | 62,510 |
| | May | 2,400 | 2,385 | 31,445 | 1,465 | 1,405 | 1,645 | 8,601 | 2,120 | 11,110 | 4,679 | 62,470 |
| | June | 2,420 | 2,245 | 31,115 | 1,465 | 1,440 | 1,745 | 8,432 | 2,120 | 11,460 | 4,743 | 62,520 |
| | July | 2,380 | 2,325 | 31,515 | 1,520 | 1,440 | 1,710 | 8,364 | 2,120 | 11,400 | 5,621 | 63,690 |
| | August | 2,185 | 2,325 | 31,230 | 1,450 | 1,460 | 1,640 | 8,548 | 2,120 | 11,560 | 5,322 | 63,330 |
| | September | 2,115 | 2,365 | 30,895 | 1,490 | 1,475 | 1,675 | 8,523 | 2,120 | 11,460 | 5,072 | 62,710 |
| | October | 2,135 | 2,370 | 31,180 | 1,545 | 1,515 | 1,615 | 8,621 | 2,120 | 11,630 | 5,099 | 63,325 |
| | November | 2,150 | 2,390 | 30,770 | 1,525 | 1,620 | 1,520 | 8,761 | 2,120 | 11,700 | 5,124 | 63,140 |
| | December | 2,150 | 2,410 | 30,430 | 1,545 | 1,660 | 1,545 | 8,615 | 2,120 | 11,700 | 5,005 | 62,620 |
| | | AVERAGE | 2,302 | 2,356 | 30,928 | 1,495 | 1,460 | 1,570 | 8,552 | 2,120 | 11,470 | 4,824 |
| 1980 | January | 2,155 | 2,280 | 29,535 | 1,515 | 1,720 | 1,600 | 8,648 | 2,115 | 11,560 | 5,042 | 61,735 |
| | February | 2,160 | 2,200 | 29,805 | 1,475 | 1,725 | 1,660 | 8,696 | 2,115 | 11,550 | 5,189 | 62,215 |
| | March | 2,155 | 1,995 | 29,100 | 1,475 | 1,830 | 1,670 | 8,712 | 2,115 | 11,640 | 5,203 | 61,745 |
| | April | 2,100 | 2,045 | 27,965 | 1,390 | 1,885 | 1,510 | 8,688 | 2,120 | 11,630 | 5,352 | 60,540 |
| | May | 2,200 | 2,150 | 27,645 | 1,470 | 1,910 | 1,600 | 8,640 | 2,120 | 11,700 | 5,175 | 60,260 |
| | June | 2,110 | 2,050 | 27,175 | 1,535 | 1,905 | 1,625 | 8,547 | 2,120 | 11,630 | 5,203 | 59,740 |
| | July | 2,095 | 2,170 | 27,030 | 1,520 | 2,015 | 1,585 | 8,555 | 2,125 | 11,800 | 4,945 | 59,575 |
| | August | 2,050 | 2,210 | 27,010 | 1,440 | 2,000 | 1,535 | 8,422 | 2,130 | 11,800 | 5,158 | 59,495 |
| | September | 1,600 | 2,190 | 25,955 | 1,420 | 2,125 | 1,540 | 8,619 | 2,110 | 11,800 | 5,056 | 58,625 |
| | October | R1,879 | 2,225 | R23,270 | R1,311 | R2,182 | R1,572 | R8,536 | R2,076 | 11,800 | R5,213 | R55,960 |
| | November | R2,062 | 2,230 | R24,079 | R1,365 | R1,901 | R1,731 | 8,500 | R2,088 | 11,824 | R5,097 | 56,585 |
| | December | 2,026 | 2,330 | 25,065 | 1,300 | 2,027 | 1,759 | 8,551 | 2,083 | 11,893 | 5,286 | 57,964 |
| | | AVERAGE | 2,055 | 2,167 | 26,928 | 1,416 | 1,937 | 1,619 | 8,592 | 2,114 | 11,720 | 5,155 |

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

³OPEC total includes production in Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, United Arab Emirates, Indonesia, Iran, Nigeria, Venezuela, Ecuador, and Gabon.

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

R = Revised data.

Note: Monthly data may not average to annual data due to independent rounding and/or unpublished monthly revisions by the data source. Data for 1980 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 monthly and annual data (except U.S.): Central Intelligence Agency, *International Energy Statistical Review*.

International

Petroleum Consumption for Major Free World Industrialized Countries¹

| | | Canada | France ² | Italy | Japan | United Kingdom | United States | West Germany | Other IEA ³ | Total IEA ⁴ |
|--------------------------|----------------|--------------|---------------------|--------------|--------------|----------------|---------------|--------------|------------------------|------------------------|
| Thousand barrels per 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 | January | 1,881 | 2,786 | 1,950 | 5,579 | 1,883 | 20,586 | 2,893 | 5,228 | 40,000 |
| | February | 2,019 | 2,731 | 1,912 | 6,009 | 2,067 | 21,288 | 2,708 | 5,097 | 41,100 |
| | March | 1,654 | 2,315 | 1,601 | 5,708 | 1,949 | 19,322 | 2,592 | 4,574 | 37,400 |
| | April | 1,605 | 2,150 | 1,447 | 5,009 | 1,703 | 17,434 | 2,590 | 4,212 | 34,000 |
| | May | 1,650 | 2,039 | 1,402 | 4,757 | 1,648 | 17,801 | 2,641 | 4,301 | 34,200 |
| | June | 1,737 | 1,663 | 1,312 | 4,709 | 1,517 | 17,786 | 2,613 | 4,026 | 33,700 |
| | July | 1,700 | 1,604 | 1,314 | 4,689 | 1,435 | 17,144 | 2,626 | 4,192 | 33,100 |
| | August | 1,775 | 1,553 | 1,311 | 4,894 | 1,488 | 18,149 | 2,617 | 4,566 | 34,800 |
| | September | 1,619 | 1,721 | 1,617 | 4,809 | 1,520 | 17,400 | 2,597 | 4,338 | 33,900 |
| | October | 1,852 | 2,007 | 1,807 | 4,771 | 1,652 | 18,176 | 2,846 | 4,396 | 35,500 |
| | November | 1,840 | 2,481 | 1,890 | 5,359 | 1,858 | 18,313 | 2,763 | 4,377 | 36,400 |
| | December | 1,877 | 2,278 | 1,744 | 5,800 | 1,606 | 18,922 | 2,489 | 4,862 | 37,300 |
| | AVERAGE | 1,766 | 2,107 | 1,607 | 5,173 | 1,690 | 18,513 | 2,664 | 4,487 | 35,900 |
| 1980 | January | 1,812 | 2,465 | 1,778 | 5,255 | 1,769 | 18,656 | 2,665 | 4,565 | 36,500 |
| | February | 1,940 | 2,444 | 1,864 | 5,722 | 1,621 | 18,815 | 2,385 | 4,753 | 37,100 |
| | March | 1,725 | 1,982 | 1,657 | 5,433 | 1,585 | 17,385 | 2,405 | 4,410 | 34,600 |
| | April | 1,591 | 2,110 | 1,541 | 4,626 | 1,472 | 16,724 | 2,656 | 4,290 | 32,900 |
| | May | 1,573 | 1,853 | 1,448 | 4,376 | 1,348 | 16,143 | 2,203 | 4,009 | 31,100 |
| | June | R1,641 | 1,848 | 1,511 | 4,224 | 1,286 | 16,214 | 2,192 | 4,026 | 31,100 |
| | July | 1,662 | 1,450 | 1,537 | 4,250 | 1,217 | 15,962 | 2,404 | 4,068 | 31,100 |
| | August | 1,630 | 1,220 | 1,310 | 3,910 | 1,120 | 15,727 | 2,130 | 3,873 | 29,700 |
| | September | R1,700 | 1,740 | 1,650 | 4,120 | 1,270 | 16,548 | 2,520 | R4,192 | 32,000 |
| | October | R1,750 | 2,050 | R1,670 | R4,250 | R1,430 | R16,911 | 2,210 | R3,979 | R32,200 |
| | November | NA | 2,040 | 1,530 | 4,630 | 1,440 | 16,696 | 2,080 | NA | NA |
| | December | NA | 2,410 | 1,740 | NA | NA | 18,769 | NA | NA | NA |
| | AVERAGE | NA | 1,965 | 1,602 | NA | NA | 17,042 | NA | NA | NA |
| 1981 | January | NA | 2,360 | 1,690 | NA | NA | 18,280 | NA | NA | NA |

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.

⁴The 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, Portugal, 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.

R = Revised data.

NA = Not available.

Note: Data for 1980 and 1981 are preliminary.

Sources: • Central Intelligence Agency, "International Energy Statistical Review," 31 March 1981 (except United States).

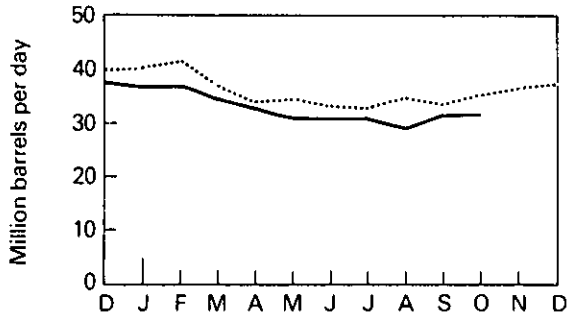
• 1973-1980 United States data: See sources on last page of the Petroleum Section.

• IEA totals for most recent months are EIA estimates.

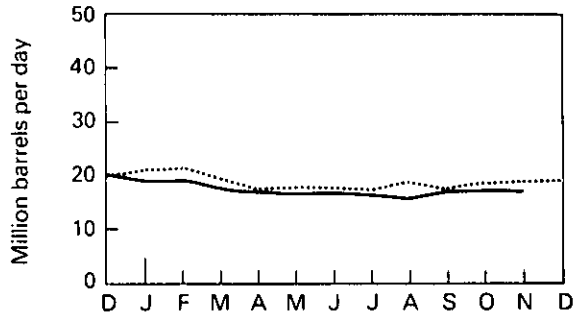
International

Petroleum Consumption

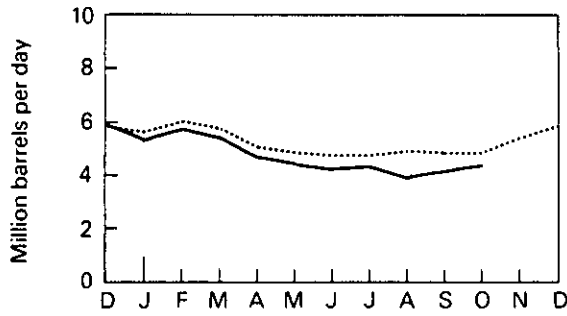
Total IEA



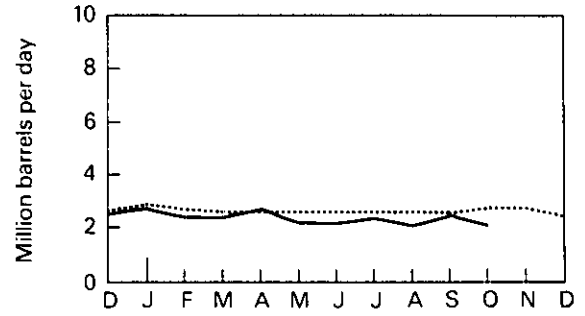
United States



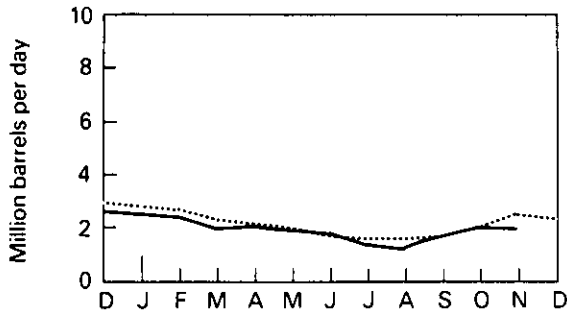
Japan*



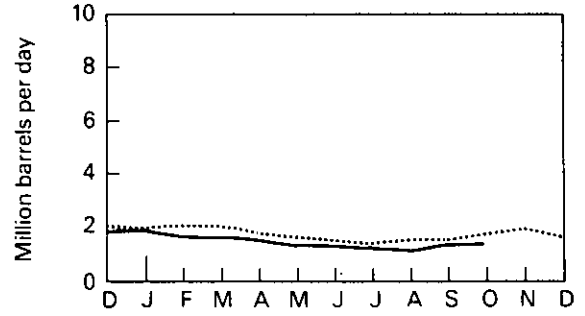
West Germany



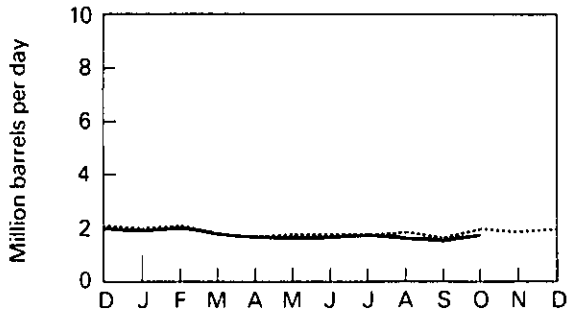
France**



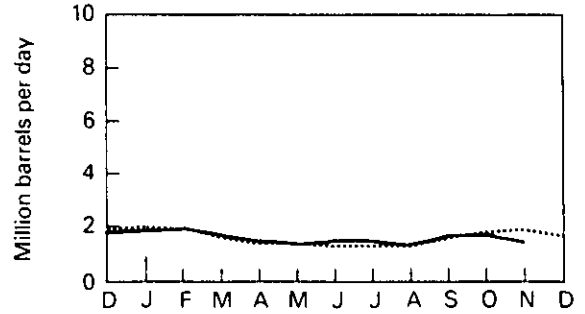
United Kingdom



Canada



Italy***



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

***Principal products only.

..... 1979
——— 1980
- - - 1981

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 | January | 0.3 | 0.8 | 3.8 | 0.5 | 3.8 | 0.4 | 0.4 | 5.7 | 0.4 | (²) |
| | February | 0.2 | 0.6 | 2.9 | 0.5 | 3.5 | 0.2 | 0.3 | 4.8 | 0.3 | (²) |
| | March | 0.2 | 0.8 | 2.9 | 0.5 | 3.2 | 0.2 | 0.2 | 4.3 | 0.4 | (²) |
| | April | 0.3 | 1.0 | 3.1 | 0.6 | 3.2 | 0.2 | 0.3 | 3.9 | 0.2 | (²) |
| | May | 0.3 | 1.3 | 2.7 | 0.5 | 3.3 | 0.2 | 0.2 | 3.6 | 0.3 | (²) |
| | June | 0.2 | 1.2 | 3.2 | 0.4 | 3.0 | 0.3 | 0.1 | 4.5 | 0.4 | (²) |
| | July | 0.2 | 1.0 | 3.8 | 0.5 | 2.6 | 0.3 | 0 | 5.9 | 0.4 | (²) |
| | August | 0.3 | 0.6 | 2.8 | 0.4 | 2.3 | 0.3 | 0.1 | 6.7 | 0.3 | (²) |
| | September | 0.1 | 0.8 | 3.0 | 0.7 | 3.1 | 0.2 | 0.2 | 5.3 | 0.4 | (²) |
| | October | 0.2 | 1.1 | 3.3 | 0.8 | 3.8 | 0.3 | 0.2 | 6.2 | 0.3 | (²) |
| | November | 0.3 | 1.0 | 2.9 | 0.6 | 3.6 | 0.3 | 0.2 | 5.4 | 0.3 | (²) |
| | December | 0.2 | 1.3 | 3.8 | 0.7 | 4.6 | 0.2 | 0.4 | 5.9 | 0.1 | (²) |
| | TOTAL | 2.7 | 11.4 | 38.4 | 6.7 | 39.9 | 3.2 | 2.6 | 62.0 | 3.5 | (²) |
| 1980 | January | 0.3 | 1.2 | 3.6 | 0.8 | 5.5 | 0.2 | 0.2 | 8.0 | 0.4 | (²) |
| | February | 0.1 | 1.0 | 3.5 | 0.8 | 5.3 | 0.1 | 0.4 | 7.4 | 0.4 | (²) |
| | March | 0 | 1.0 | 3.7 | 0.8 | 5.1 | 0.2 | 0.5 | 8.0 | 0.4 | (²) |
| | April | 0.1 | 0.5 | 3.2 | 0.8 | 5.0 | 0.3 | 0.4 | 5.6 | 0.3 | (²) |
| | May | 0.2 | 0.7 | 2.5 | 0.3 | 4.2 | 0.3 | 0.3 | 6.0 | 0.3 | (²) |
| | June | 0.3 | 1.1 | 3.1 | 0 | 4.1 | 0.2 | 0.1 | 6.6 | 0.3 | (²) |
| | July | 0.2 | 1.3 | 3.6 | 0.4 | 4.8 | 0.2 | 0.1 | 7.6 | 0.4 | (²) |
| | August | 0.3 | 1.3 | 3.9 | 0.4 | 3.2 | 0.3 | 0.1 | 8.3 | 0.4 | (²) |
| | September | 0.3 | 1.1 | 3.1 | 0.4 | 4.5 | 0.3 | 0.1 | 6.7 | 0.4 | (²) |
| | October | 0.3 | 0.9 | 3.3 | 0.5 | 5.1 | 0.2 | 0 | 5.7 | 0.3 | (²) |
| | November | 0.3 | 1.2 | 3.4 | 0.6 | 5.8 | 0.3 | 0 | 5.1 | 0.3 | (²) |
| | December | 0.3 | 1.2 | 3.5 | 1.2 | 8.5 | 0.2 | 0 | 6.0 | 0.3 | (²) |
| | TOTAL | 2.3 | 12.5 | 40.4 | 7.0 | 61.2 | 2.9 | 2.2 | 81.0 | 4.2 | 0.1 |
| 1981 | January | 0.3 | 1.2 | 3.2 | 1.3 | 9.3 | 0.2 | 0.2 | 8.1 | 0.1 | (²) |

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.

²Less than 0.05 billion gross kilowatt-hours.

Source: • *Nucleonics Week*.

International

Nuclear Electricity Generation by Non-Communist Countries¹ (continued)

| | | South Korea | Spain | Sweden | Switz- erland | Taiwan | United Kingdom ³ | West Germany | Non- Communist World Excluding U.S. | United States | Total Non- Communist World |
|------------------------------|--------------|------------------|------------|-------------|------------------|------------|--------------------------------|-----------------|---|------------------|----------------------------------|
| Billion gross kilowatt-hours | | | | | | | | | | | |
| 1973 | TOTAL | 0 | 6.5 | 2.1 | 6.2 | 0 | 28.0 | 11.9 | 100.7 | 88.0 | 188.7 |
| 1974 | TOTAL | 0 | 7.2 | 1.6 | 7.0 | 0 | 34.0 | 12.0 | 121.1 | 104.5 | 225.6 |
| 1975 | TOTAL | 0 | 7.5 | 12.0 | 7.7 | 0 | 30.5 | 21.7 | 152.7 | 181.8 | 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 | January | 0.3 | 0.5 | 2.3 | 0.8 | 0.4 | 3.8 | 4.2 | 28.5 | 29.2 | 57.7 |
| | February | 0.4 | 0.6 | 2.0 | 0.7 | 0.3 | 3.8 | 3.4 | 24.5 | 27.3 | 51.8 |
| | March | 0.3 | 0.7 | 2.7 | 0.8 | 0.5 | 4.0 | 3.8 | 25.4 | 25.5 | 50.9 |
| | April | 0.3 | 0.6 | 1.4 | 0.8 | 0.6 | 3.2 | 3.8 | 23.5 | 19.3 | 42.8 |
| | May | 0.3 | 0.1 | 1.3 | 0.9 | 0.5 | 2.3 | 3.5 | 21.2 | 15.8 | 37.0 |
| | June | 0.3 | 0.3 | 1.0 | 0.7 | 0.6 | 3.1 | 3.3 | 22.6 | 17.1 | 39.7 |
| | July | 0.3 | 0.3 | 1.0 | 0.8 | 0.7 | 2.6 | 3.3 | 23.8 | 22.5 | 46.3 |
| | August | 0.4 | 0.7 | 1.1 | 0.7 | 0.6 | 2.4 | 2.9 | 22.6 | 26.2 | 48.7 |
| | September | 0.4 | 0.7 | 1.4 | 1.2 | 0.6 | 3.1 | 2.6 | 23.9 | 23.2 | 47.1 |
| | October | 0.3 | 0.7 | 2.0 | 1.4 | 0.5 | 2.8 | 3.7 | 27.6 | 22.3 | 49.9 |
| | November | 0 | 0.7 | 2.3 | 1.4 | 0.3 | 3.3 | 3.8 | 26.0 | 20.3 | 46.3 |
| | December | 0 | 0.7 | 2.5 | 1.5 | 0.6 | 4.1 | 4.1 | 30.6 | 21.9 | 52.5 |
| | 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 | (²) | 0.3 | 2.4 | 1.2 | 0.7 | 3.4 | 4.2 | 31.3 | 21.0 | 52.2 |
| | March | 0.4 | 0.4 | 2.3 | 1.3 | 0.8 | 4.2 | 3.4 | 32.4 | 21.0 | 53.4 |
| | April | 0.4 | 0.4 | 1.9 | 1.4 | 0.7 | 2.7 | 3.6 | 27.3 | 19.8 | 47.1 |
| | May | 0.4 | 0.4 | 1.6 | 1.4 | 0.4 | 2.6 | 3.5 | 25.1 | 19.6 | 44.7 |
| | June | 0.1 | 0.3 | 1.6 | 0.6 | 0.5 | 2.8 | 2.9 | 24.6 | 19.4 | 44.0 |
| | July | 0.4 | 0.3 | 1.3 | 0.6 | 0.8 | 2.0 | 3.0 | 27.0 | 22.4 | 49.4 |
| | August | 0.3 | 0.4 | 1.3 | 0.7 | 0.8 | 2.6 | 2.7 | 26.9 | 25.7 | 52.6 |
| | September | 0.4 | 0.4 | 2.1 | 1.3 | 0.8 | 3.1 | 3.2 | 28.1 | 24.8 | 52.9 |
| | October | 0.4 | 0.4 | 2.7 | 1.4 | 0.8 | 2.7 | 3.1 | 27.9 | 25.7 | 53.6 |
| | November | 0.4 | 0.5 | 3.4 | 1.4 | 0.6 | 3.2 | 4.1 | 30.5 | 22.0 | 52.5 |
| | December | 0.3 | 0.7 | 3.6 | 1.5 | 0.5 | 4.2 | 5.3 | 37.2 | 22.9 | 60.2 |
| | TOTAL | 3.5 | 5.2 | 26.7 | 14.3 | 8.2 | 37.2 | 43.7 | 352.6 | 265.3 | 618.0 |
| 1981 | January | 0.3 | 0.8 | 3.5 | 1.5 | 0.8 | 3.8 | 5.0 | 39.6 | 25.7 | 65.3 |

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

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.

²Less than 0.05 billion gross kilowatt-hours.

³ The United Kingdom assesses generation at 4- or 5-week intervals, rather than by calendar month.

Source: • *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.

Base Production Control Level

(See Crude Oil)

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.

Ceiling Price

The maximum permissible selling price, prior to February 1, 1976, for a particular grade of domestic crude oil in a particular field is the May 15, 1973, posted price, plus \$1.35 per barrel.

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.

- **Base Production Control Level (BPCL):** Prior to February 1, 1976, BPCL means the monthly total number of barrels of crude oil produced and sold from a property in 1972 or the average monthly production as defined in Section 212.72 of the Federal Energy Guidelines. After January 31, 1976, BPCL means either the daily average number of barrels produced and sold in 1975 multiplied by the number of days in the month (in 1972) or the daily number of barrels of crude oil produced and sold from the property in 1972 (leap year) multiplied by the number of days of the month (in 1972). A detailed explanation of BPCL and adjustments thereto may be found in Section 212.72 of the Federal Energy Guidelines.

A. Lower Tier (Old) Crude Oil: (1) Prior to February 1, 1976, the total number of barrels of domestic crude oil produced and sold from a property in a specific month, less the total number of barrels of new crude oil for that property in that month, and less the total number of barrels of *released* crude oil for that property in that month. (2) Effective February 1, 1976, the total number of barrels of domestic crude oil produced and sold from a property in a specific month, less the total number of barrels of new crude oil for that property in that month.

B. Upper Tier (New) Crude Oil: With respect to a specific property, (1) prior to February 1, 1976, the total number of barrels of domestic crude oil produced and sold in a specified month, less (a) the base production control level for that month, and less (b) the current cumulative deficiency; (2) effective February 1, 1976, the total number of barrels of domestic crude oil produced and sold in a specific month less (a) the property's base production control level for that month and less (b) the current cumulative deficiency since February 1, 1976; and (3) that the total number of barrels of domestic crude oil shall not in either period include any number of barrels not certified as new crude oil pursuant to the provisions of 10 CFR 212.131(a)(2) within the consecutive 2-month period immediately succeeding the month in which the crude oil is produced and sold except where such recertification is explicitly required or permitted by DOE order, interpretation, or ruling.

C. Decontrolled Oil: Crude oil (exclusive of Stripper oil, Naval Petroleum Reserves oil, Newly Discovered, and Incremental Tertiary oil) which has been explicitly exempted by rule or the exception process from Federal crude oil price controls.

1. **Heavy Crude Oil:** Crude oil produced and sold from a property whose production of crude oil in June 1979 (or if there was no such production sold in that month, the last preceding month in which there was such production sold) had a weighted average gravity of 16° API or less corrected to 60° F based on the average gravity reported on the run tickets. Effective December 29, 1979, regulations redefined heavy crude oil as 20° API gravity, or less.

2. **Incremental Tertiary Oil:** Oil which is produced under a qualified tertiary enhanced recovery project certified by the Economic Regulatory Administration, DOE, and which is certified as "incremental tertiary" crude oil in accordance with 10 CFR 212.78.

3. **Marginal Property Oil:** Oil which is produced from a property which has qualified as a "marginal" property under the average well-completion depth and daily production qualification thresholds of 10 CFR 212.72 and which has been released for sale at upper tier prices.

4. **Newly Discovered Crude Oil:** Crude oil sold after May 31, 1979, which was produced from: (1) an area in the Outer Continental Shelf for which the

lease was entered into on or after January 1, 1979, and from which there was no production in calendar year 1978; or (2) an onshore property from which no crude oil was produced in calendar year 1978.

5. Stripper Oil: Crude oil which is produced from property whose average daily production per well (excluding condensate recovered in nonassociated natural gas production) did not exceed 10 barrels per day during any preceding consecutive 12-month period beginning after December 31, 1972. Stripper oil was exempt from price controls beginning September 1, 1976.

6. Tertiary Incentive Oil: Price-controlled crude oil which has been released for sale at the market-clearing prices to provide front-end money to initiate or expand qualified tertiary enhanced recovery projects and which has been certified as "tertiary incentive" oil in accordance with 10 CFR 212.78.

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 Entitlement Value

The average value a refiner receives from the entitlement program for each incremental barrel of imported crude oil. It is calculated by multiplying the entitlement price by the National Old Oil Supply Ratio for November 1974 through January 1976, and by the National Domestic Crude Oil Supply Ratio for February 1976 forward.

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.

Entitlement Position

The monthly entitlement position of a refiner indicates whether he bought or sold entitlements in that month. An entitlement is the right to process "deemed old oil," which is the sum of a refiner's receipts of "old" oil and a fraction of his receipts of "upper tier" crude oil. This fraction is set monthly by the Economic Regulatory Administration (ERA). A refiner must purchase entitlements for the amount of his "deemed old oil" receipts in excess of the national domestic crude oil supply ratio (NDCOSR). The NDCOSR, as calculated by ERA, reflects the differences in costs to refiners of "old" oil, "upper tier" crude oil, and imported crude oil.

Entitlement Price

The price of an entitlement, fixed by ERA, is the exact differential as reported for the month between the weighted average delivered cost per barrel to refiners of both imported crude oil and stripper crude oil, and the weighted average delivered cost per barrel to refiners of "old oil".

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.

Lower Tier Crude Oil

(See Crude Oil, Part A.)

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.

National Domestic Crude Oil Supply Ratio

Old oil receipts adjusted for upper tier receipts, small refiner bias, and other minor adjustments, divided by crude runs to stills adjusted for residual fuel entitlements.

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.

New Crude Oil

(See Crude Oil, Part B.)

Old Crude Oil

(See Crude Oil, Part A.)

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.

Property

Prior to August 26, 1976, a property was defined as the right to produce domestic crude oil, which arises from a lease or from a fee interest. This definition was interpreted to apply only to a surface lease. In August 1976 the definition of a property was changed so that a producer may treat as a separate property each separate and distinct producing reservoir subject to the same right to produce crude oil, provided that such reservoir is recognized by the appropriate governmental regulatory authority as a producing formation that is separate and distinct from, and not in communication with any other producing formation. Although this new definition was not implemented until August 25, 1976, it was made effective retroactively to February 1, 1976. (F.R. 36171, August 26, 1976.)

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 Reserves

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 petroleum 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.

Unrecouped Costs

Costs which have not been recovered in the current month's product prices but which have been "banked" for later use.

Upper Tier Crude Oil

(See Crude Oil, Part B.)

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.

4. 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

$$C = S_b + R - S_e, \quad (1)$$

where

- S_b = beginning stocks
- R = receipts
- S_e = ending stocks.

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

$$C = \Delta S + R. \quad (2)$$

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

$$C_M = (C_{M3}/C_3) \bullet C \quad (3)$$

where

- C_{M3} = the monthly consumption in the "Other Industrial" sector as reported on Form EIA-3.
- C_3 = 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. For the 2-year period January 1974 through January 1976, the old oil price at the wellhead was originally estimated to be \$5.25 per barrel based on representative postings. This estimate was revised in July 1976 after a survey of crude oil purchasers was implemented and more complete data became available. Estimates of the average old oil price given in the table for months prior to February 1976 are based on prices for old oil reported on new leases, and were not derived from a statistically valid sample of old oil leases.

13. The refiner acquisition cost of domestic crude oil is the price paid by refiners for domestic crude oil and

natural gas plant liquids and includes transportation costs from the wellhead to the refinery. The refiner acquisition cost of imported crude oil is the average landed cost of imported crude oil to the refiner and represents the amount which may be passed on to the consumer. It incorporates transportation costs and fees (including the supplemental import fees) and any other costs incurred in purchasing and shipping crude oil to the United States

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 top 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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Thank you for responding,

John E. Daniels
Director
Office of Energy Information Services
Energy Information Administration

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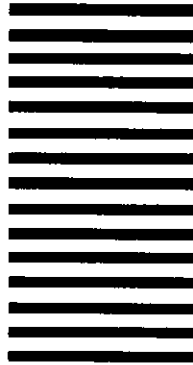
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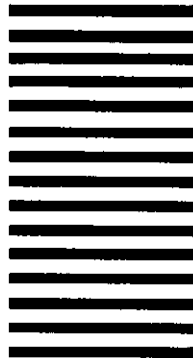
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Conversion Factors

Thermal Conversion Factors

| Approximate Heat Content of Various Fuels | | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979-80-81 |
|--|----------------|------------|------------|------------|------------|------------|------------|------------|
| Anthracite | | | | | | | | |
| Production | Btu/short ton | 23,170,000 | 22,560,000 | 23,390,000 | 22,770,000 | 23,180,000 | 23,520,000 | 23,590,000 |
| Imports and Exports | Btu/short ton | 25,400,000 | 25,400,000 | 25,400,000 | 25,400,000 | 25,400,000 | 25,400,000 | 25,400,000 |
| Consumption, average | Btu/short ton | 22,710,000 | 21,950,000 | 21,740,000 | 22,150,000 | 22,710,000 | 22,970,000 | 22,700,000 |
| Electric utility consumption | Btu/short ton | 17,920,000 | 17,200,000 | 17,060,000 | 17,530,000 | 17,240,000 | 17,100,000 | 17,450,000 |
| Non-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 |
| Bituminous coal and lignite | | | | | | | | |
| Production | Btu/short ton | 24,010,000 | 23,730,000 | 23,200,000 | 23,150,000 | 22,700,000 | 22,430,000 | 22,590,000 |
| Imports | Btu/short ton | 25,000,000 | 25,000,000 | 25,000,000 | 25,000,000 | 25,000,000 | 25,000,000 | 25,000,000 |
| Exports | Btu/short ton | 27,000,000 | 27,000,000 | 27,000,000 | 27,000,000 | 27,000,000 | 27,000,000 | 27,000,000 |
| Consumption, average | Btu/short ton | 23,650,000 | 23,070,000 | 22,800,000 | 22,750,000 | 22,330,000 | 22,140,000 | 22,200,000 |
| Electric utility consumption | Btu/short ton | 22,260,000 | 21,800,000 | 21,660,000 | 21,690,000 | 21,480,000 | 21,280,000 | 21,380,000 |
| Non-utility consumption | Btu/short ton | 26,840,000 | 26,120,000 | 25,810,000 | 25,870,000 | 25,130,000 | 25,070,000 | 25,060,000 |
| Coal Coke | Btu/short ton | 26,000,000 | 26,000,000 | 26,000,000 | 26,000,000 | 26,000,000 | 26,000,000 | 26,000,000 |
| Crude petroleum¹ | | | | | | | | |
| Production | Btu/barrel | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 |
| Imports | Btu/barrel | 5,817,000 | 5,827,000 | 5,821,000 | 5,808,000 | 5,810,000 | 5,802,000 | 5,810,000 |
| Exports | Btu/barrel | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 | 5,800,000 |
| Crude petroleum and products | | | | | | | | |
| Imports, average | Btu/barrel | 5,897,000 | 5,884,000 | 5,858,000 | 5,856,000 | 5,834,000 | 5,839,000 | 5,810,000 |
| Exports, average | Btu/barrel | 5,752,000 | 5,774,000 | 5,748,000 | 5,745,000 | 5,797,000 | 5,808,000 | 5,832,000 |
| Petroleum products | | | | | | | | |
| Consumption, average | Btu/barrel | 5,515,000 | 5,504,000 | 5,494,000 | 5,504,000 | 5,518,000 | 5,519,000 | 5,494,000 |
| Residential and Commercial | Btu/barrel | 5,686,000 | 5,681,000 | 5,655,000 | 5,661,000 | 5,664,000 | 5,682,000 | 5,661,000 |
| Industrial | Btu/barrel | 5,328,000 | 5,307,000 | 5,307,000 | 5,339,000 | 5,371,000 | 5,371,000 | 5,340,000 |
| Transportation | Btu/barrel | 5,398,000 | 5,396,000 | 5,395,000 | 5,400,000 | 5,404,000 | 5,412,000 | 5,415,000 |
| Electric Utility | Btu/barrel | 6,223,000 | 6,215,000 | 6,229,000 | 6,235,000 | 6,231,000 | 6,227,000 | 6,245,000 |
| Imports | Btu/barrel | 5,983,000 | 5,959,000 | 5,935,000 | 5,980,000 | 5,908,000 | 5,955,000 | 5,811,000 |
| Exports | Btu/barrel | 5,752,000 | 5,773,000 | 5,747,000 | 5,743,000 | 5,796,000 | 5,814,000 | 5,864,000 |
| Natural gas plant liquid production | | | | | | | | |
| production | Btu/barrel | 4,049,000 | 4,011,000 | 3,984,000 | 3,964,000 | 3,941,000 | 3,925,000 | 3,955,000 |
| Natural gas, dry | | | | | | | | |
| Production and consumption | Btu/cubic foot | 1,021 | 1,024 | 1,021 | 1,020 | 1,021 | 1,019 | 1,021 |
| Electric utility consumption | Btu/cubic foot | 1,024 | 1,022 | 1,026 | 1,023 | 1,029 | 1,034 | 1,034 |
| Non-utility consumption | Btu/cubic foot | 1,020 | 1,024 | 1,020 | 1,019 | 1,019 | 1,016 | 1,018 |
| Imports | Btu/cubic foot | 1,026 | 1,027 | 1,026 | 1,025 | 1,026 | 1,030 | 1,037 |
| Exports | Btu/cubic foot | 1,023 | 1,016 | 1,014 | 1,013 | 1,013 | 1,013 | 1,013 |
| Natural gas, wet | | | | | | | | |
| Production | Btu cubic foot | 1,093 | 1,097 | 1,095 | 1,093 | 1,093 | 1,088 | 1,092 |
| Hydropower ² | Btu/kWh | 10,389 | 10,442 | 10,406 | 10,373 | 10,435 | 10,435 | 10,435 |
| Nuclear power ² | Btu/kWh | 10,903 | 11,161 | 11,013 | 11,047 | 10,769 | 10,769 | 10,769 |
| Geothermal power ² | Btu/kWh | 21,674 | 21,674 | 21,611 | 21,611 | 21,611 | 21,611 | 21,611 |
| Electricity consumption | Btu/kWh | 3,412 | 3,412 | 3,412 | 3,412 | 3,412 | 3,412 | 3,412 |
| Refined Petroleum Products: | | Btu/barrel | | | | | | |
| Asphalt | 6,636,000 | | | | | | | |
| Aviation gasoline | 5,048,000 | | | | | | | |
| Butane | 4,326,000 | | | | | | | |
| Butane-propane mixture ³ | 4,130,000 | | | | | | | |
| Distillate fuel oil | 5,825,000 | | | | | | | |
| Ethane | 3,082,000 | | | | | | | |
| Ethane-propane mixture ⁴ | 3,308,000 | | | | | | | |
| Isobutane | 3,974,000 | | | | | | | |
| Jet fuel—kerosene type | 5,670,000 | | | | | | | |
| Jet fuel—naphtha type | 5,355,000 | | | | | | | |
| Kerosene | 5,670,000 | | | | | | | |
| Lubricants | 6,065,000 | | | | | | | |
| Motor gasoline | 5,253,000 | | | | | | | |
| Natural gasoline | 4,620,000 | | | | | | | |
| Petrochemical feedstocks | | | | | | | | |
| Naphtha 400 ⁵ | 5,248,000 | | | | | | | |
| Other oils over 400 ⁵ | 5,825,000 | | | | | | | |
| Still gas | 6,000,000 | | | | | | | |
| Petroleum coke | 6,024,000 | | | | | | | |
| Plant condensate | 5,418,000 | | | | | | | |
| Propane | 3,836,000 | | | | | | | |
| Residual fuel oil | 6,287,000 | | | | | | | |
| Road oil | 6,636,000 | | | | | | | |
| Special naphtha | 5,248,000 | | | | | | | |
| Still gas | 6,000,000 | | | | | | | |
| Unfinished oils | 5,825,000 | | | | | | | |
| Wax | 5,537,000 | | | | | | | |
| Miscellaneous | 5,796,000 | | | | | | | |

Units of Measure

Weight

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

Conversion Factors for Crude Oil (Average Gravity)

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

Conversion Factors for Uranium

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

¹Includes lease condensate

²There 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, it allows for better comparisons with certain other countries such as Norway where hydropower is the principal means for producing electricity. Similarly, the nuclear power and geothermal power conversion factors represent the thermal conversion equivalent of the uranium and geothermal steam consumed at powerplants. The heat content of a kilowatt-hour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatt-hour. It is not possible to determine the hydroelectric powerplant efficiency by using these factors. The efficiency factor for hydroelectric powerplants is derived by multiplying generation efficiency by turbine efficiency. The average hydroelectric powerplant efficiency in the United States is 86 percent while average generation efficiency is 97 percent and average turbine efficiency is 89 percent.

³60 percent butane and 40 percent propane.

⁴70 percent ethane and 30 percent propane.

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