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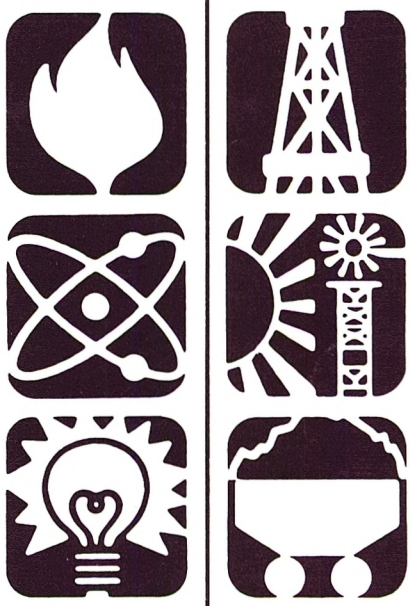
DOE/EIA-0035(84/06)

Monthly Energy Review

Energy Information Administration
Washington, D.C.

June 1984

First Half 1984 Summary
See Executive Summary



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Inside Cover

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

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

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

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Monthly Energy Review

June 1984

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

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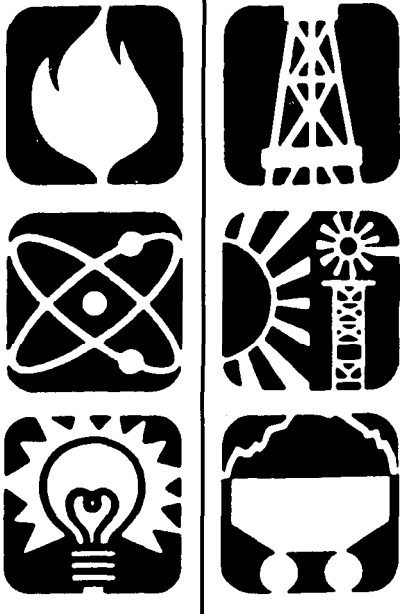

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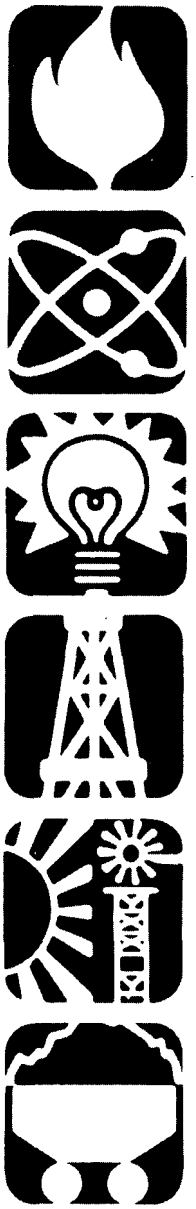

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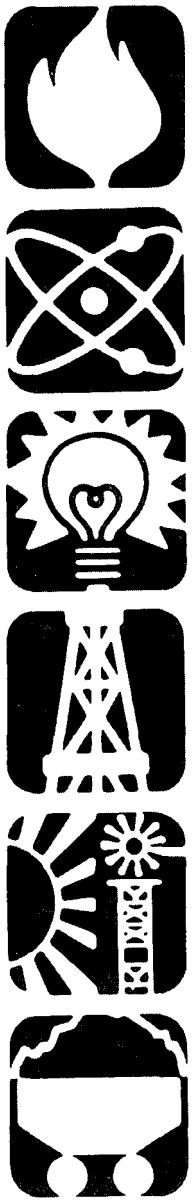
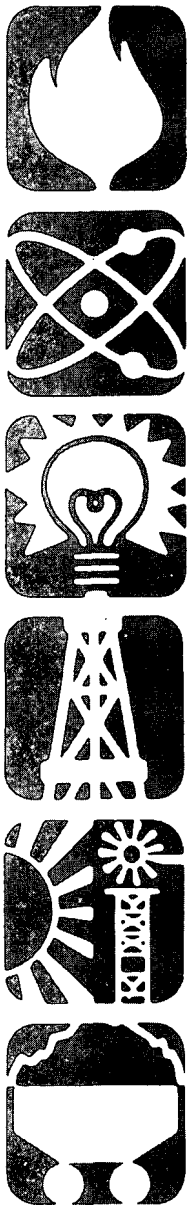




Articles

Feature articles on energy-related subjects and highlights from recently published Energy Information Administration reports are often included in this publication. The following articles and highlights have appeared in issues since the beginning of 1981. A list of articles included in this report prior to 1981 may be found in any issue published from 1981 through 1983.

Changes in 1981 Petroleum Data Series ..... May 1981
Information Services of the Energy Information Administration ..... September 1981
An Overview of Natural Gas Markets ..... December 1981
The Interstate and Intrastate Natural Gas Markets ..... January 1982
Natural Gas Drilling and Production Under the Natural Gas Policy Act ..... February 1982
Highlights: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1981 Annual Report* ..... September 1982
Impacts of Financial Constraints on the Electric Utility Industry ..... October 1982
Highlights: *Energy Company Development Patterns in the Postembargo Era, Volume One* ..... November 1982
Highlights: *Residential Energy Consumption Survey: Consumption and Expenditures* ..... January 1983
Highlights: *Residential Energy Consumption Survey: Housing Characteristics* ..... February 1983
The Effect of Weather on Energy Use ..... April 1983
Trends in U.S. Energy Since 1973 ..... May 1983
Highlights: *Energy Price and Expenditure Data Report, 1970–1980* ..... July 1983
Data Series on Petroleum Use at Electric Utilities ..... July 1983
Highlights: *Railroad Deregulation: Impact on Coal* ..... August 1983
Highlights: *Port Deepening and User Fees: Impact on U.S. Coal Exports* ..... August 1983
Highlights: *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1982 Annual Report* ..... September 1983
Residential Energy Consumption, 1978 Through 1981 ..... September 1983
Exploring for Oil and Gas ..... November 1983
The Influence of Federal Actions on Petroleum Exploration ..... December[2] 1983
Aggregate Statistics: Accurate or Misleading? ..... December[3] 1983
Highlights: *Annual Energy Review 1983* ..... February 1984
Highlights: *State Energy Data Report, Consumption Estimates, 1960–1982* ..... March 1984
Highlights: *Annual Energy Outlook 1983* ..... March 1984
Highlights: *State Energy Price and Expenditure Report, 1970–1981* ..... May 1984

HIGHLIGHTS:

Solar Collector Manufacturing Activity 1983

In 1983, a total of 16.83 million square feet of thermal solar collectors was shipped in the United States by 224 manufacturers. U.S. production accounted for 16.32 million square feet (97 percent), while imports supplied the remaining 0.51 million square feet. Total shipments in 1983 were 10 percent lower than the 18.62 million square feet shipped in 1982 by 274 manufacturers, and 16 percent lower than in the peak year of 1981 (Figure 1). The decrease can be almost entirely accounted for by the decline in low-temperature collectors[1] used to heat swimming pools. Shipments of low-temperature collectors in 1983 decreased to 4.85 million square feet, down 35 percent compared with shipments in 1982. Shipments of medium-temperature collectors[2] increased to 11.98 million square feet, up 7 percent from the 1982 level. Eighteen companies shipped photovoltaic solar collectors[3] capable of producing a total of 13 thousand peak kilowatts, up 83 percent from the 7-thousand-peak-kilowatt capacity of photovoltaic collectors shipped in 1982.

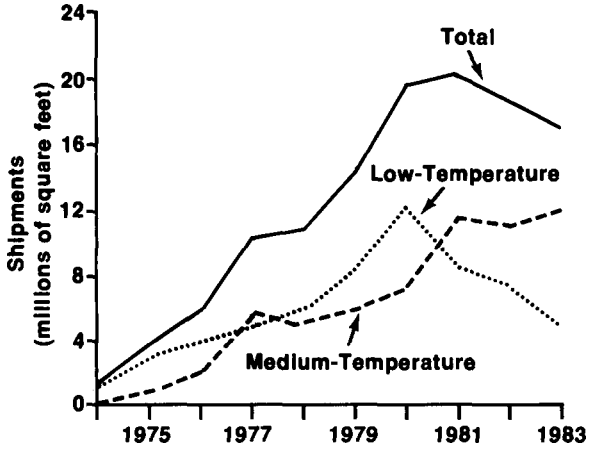
These and other data on the manufacture and sale of solar collectors are available in *Solar Collector Manufacturing Activity 1983*, published in June 1984 by the Energy Information Administration. The report presents annual data for 1981 through 1983 on solar collector manufacturing, end use, market sectors, trade, and prototype development. Selected manufacturing data are provided for 1974 through 1983.

In 1983, shipments of low-temperature solar collectors totaled 4.85 million square feet, averaging 88 thousand square feet per manufacturer.[4] Shipments of medium-temperature collectors totaled 11.98 million square feet in 1983, averaging 67 thousand square feet per manufacturer.[5] A 49-percent increase in the average annual shipment per manufacturer of medium-temperature collectors more than compensated for a 28-percent decrease in the average annual shipment per manufacturer of low-temperature collectors.[6] The average annual shipment per manufacturer for all thermal collectors of 75 thousand square feet was up 11 percent from the 1982 average.

Of the 16.83 million square feet of thermal collectors shipped in 1983, 8.67 million square feet (52 percent) were manufactured by the 10 largest[7] companies. In 1982, their market share was 48 percent. This increase in the percent of total shipments made by the top 10 companies, when cou-

[1] Low-temperature solar collectors generally operate at temperatures below 110°F. In 1983, over 92 percent of low-temperature collectors shipped were used for pool heating.
[2] Medium-temperature solar collectors generally operate in the temperature range of 140 to 180°F., but may operate at temperatures as low as 110°F. In this *Highlights*, special collectors (evacuated tube collectors and concentrating collectors) are included in the calculation of medium-temperature shipments.

Figure 1. Solar Collector Shipments by Type, 1974–1983



Source: Form EIA-63, "Solar Collector Manufacturing Activity, 1983."

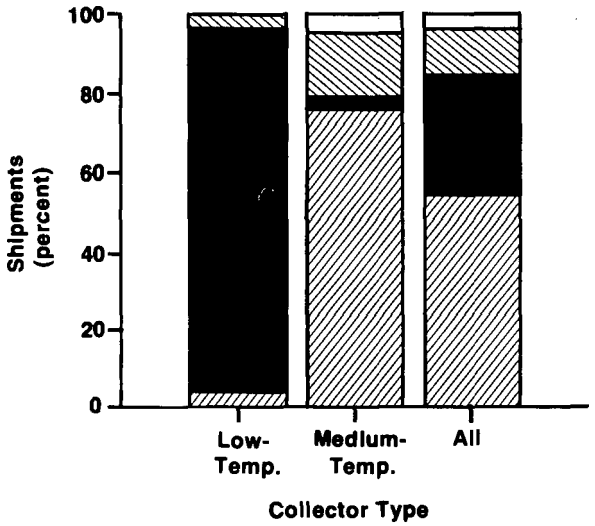
[3] A photovoltaic solar collector is a group of photovoltaic cells, which are solid-state devices that produce electricity when exposed to sunlight. The electricity may be used immediately or stored.
[4] The 1983 survey frame contains 55 manufacturers of low-temperature solar collectors.
[5] The 1983 survey frame contains 179 manufacturers of medium-temperature solar collectors.
[6] The 1982 survey frame contains 61 manufacturers of low-temperature solar collectors and 248 manufacturers of medium-temperature solar collectors.
[7] Largest companies in terms of 1983 shipments.

pled with the increase in the average annual shipment per manufacturer and the drop in the number of manufacturers from 274 to 224, indicates that the industry became more concentrated in 1983. In addition, the number of companies engaged in other than collector manufacturing activities—such as wholesale and retail distribution, systems design, and prototype development—also declined, indicating increased specialization.

Companies headquartered in four States accounted for 73 percent of all thermal collectors shipped in the United States in 1983. California companies continued to lead in manufacturing thermal collectors by producing 39 percent of all collectors shipped in 1983. Companies headquartered in Florida, New York, and Arizona produced 17 percent, 12 percent, and 5 percent, respectively, of all collectors shipped in 1983. Five companies produced nearly 85 percent of the low-temperature collectors shipped in 1983 and 17 companies shipped 65 percent of the medium-temperature collectors.

In 1983, 55 percent of all thermal collectors shipped were used for domestic hot water heating, 29 percent for pool heating, 12 percent for space heating, and the remainder for other uses (Figure 2). Of low-temperature collectors shipped, 92 percent were used for pool heating, 4 percent for water heating, 3 percent for space heating, and the remainder for other uses. Of medium-temperature collectors shipped, 76 percent were used for domestic hot water heating, 16 percent for space heating, and the remainder for other uses.

Figure 2. Solar Collector Shipments by Type and End Use, 1983



Source: Form EIA-63, "Solar Collector Manufacturing Activity, 1983."

The residential sector received 70 percent of the thermal solar collectors shipped in 1983, down from a 74-percent share in 1982. The commercial sector's share also declined, falling from 20 percent in 1982 to 18 percent in 1983. In contrast, shipments of thermal collectors to the industrial sector rose from 3 percent in 1982 to 10 percent in 1983. Shipments to other sectors decreased from 3 percent in 1982 to 2 percent in 1983.

Imports of thermal collectors by companies that manufacture solar collectors rose 22 percent in 1983, from 0.42 million square feet in 1982 to 0.51 million square feet. Four companies imported collectors from Australia, Canada, Israel, and Japan. Exports of thermal collectors by companies that manufacture solar collectors were 0.16 million square feet, 65 percent below the 1982 level.

Of the photovoltaic solar collectors shipped in the United States in 1983, 84 percent were shipped to the commercial sector. The industrial sector accounted for 5 percent, the residential sector accounted for 2 percent, and the agricultural and other sectors, including the Government, accounted for the remainder.

Exports of photovoltaic collectors declined from 1982 to 1983, falling from 1.8 thousand peak kilowatts of capacity (26 percent of photovoltaic collectors shipped in 1982) to 1.6 thousand peak kilowatts of capacity (12 percent of 1983 shipments). In 1983, eight manufacturers exported photovoltaic collectors to 50 countries.

Solar Collector Manufacturing Activity 1983, DOE/EIA-0174(83), summarizes information on the manufacture and sale of thermal and photovoltaic collectors. The 59-page report includes an executive summary, 13 tables, a sample of the survey form used to collect the data, and a section on the survey methodology. It is available from the Superintendent of Documents, Government Printing Office (stock number 061-003-00386-9) for $3.00 per copy.

Part 1 Executive Summary

Overview

Production

Energy production during June 1984 totaled 5.4 quadrillion Btu, a 10.8-percent increase compared to the level of production during June 1983. Coal production increased 23.5 percent, natural gas production was up 15.2 percent, and petroleum production increased 1.4 percent. Production of all other forms of energy combined decreased 1.0 percent compared to production 1 year earlier.

Consumption

Energy consumption during June 1984 totaled 5.7 quadrillion Btu, 6.3 percent above the level of consumption during June 1983. Coal consumption increased 13.0 percent, natural gas consumption was up 11.5, and petroleum consumption increased 2.6 percent. Consumption of all other forms of energy combined decreased 0.9 percent compared to consumption during June 1983.

Net Imports

Net imports of energy during June 1984 totaled 0.7 quadrillion Btu, 4.9 percent below the level of net imports during June 1983. Net imports of petroleum decreased 2.6 percent while net imports of natural gas increased 5.4 percent. Net exports of coal were up 8.8 percent compared to the level in June 1983.

*All percentage increases and decreases are calculated using a daily rate prior to rounding.

Energy Summary

(Quadrillion (10^{15}) Btu)

	June			Cumulative January through June				
	1984	1983	Percent Change	1984	1984 Daily Rate	1983	1983 Daily Rate	Percent Change[1]
Total Production	**5.430**	**4.901**	**+10.8**	**32.985**	**0.181**	**30.088**	**0.166**	**+9.0**
Petroleum[2]	1.708	1.684	+1.4	10.327	0.057	10.210	0.056	+0.6
Natural Gas	1.426	1.238	+15.2	8.972	0.049	8.012	0.044	+11.4
Coal	1.702	1.378	+23.5	9.966	0.055	8.376	0.046	+18.3
Other[3]	0.594	0.600	-1.0	3.720	0.020	3.490	0.019	+6.0
Total Consumption	**5.736**	**5.396**	**+6.3**	**37.465**	**0.206**	**34.540**	**0.191**	**+7.9**
Petroleum[4]	2.546	2.481	+2.6	15.575	0.086	14.615	0.081	+6.0
Natural Gas	1.150	1.032	+11.5	9.731	0.053	8.984	0.050	+7.7
Coal	1.419	1.255	+13.0	8.263	0.045	7.296	0.040	+12.6
Other[5]	0.622	0.627	-0.9	3.895	0.021	3.646	0.020	+6.3
Net Imports	**0.650**	**0.683**	**-4.9**	**4.563**	**0.025**	**3.523**	**0.019**	**+28.8**
Petroleum[6]	0.767	0.787	-2.6	4.974	0.027	3.816	0.021	+29.6
Natural Gas	0.060	0.057	+5.4	0.422	0.002	0.467	0.003	-10.3
Coal[7]	(0.205)	(0.188)	(+8.8)	(1.008)	(0.006)	(0.917)	(0.005)	(+9.4)
Other[8]	0.027	0.027	+1.7	0.175	0.001	0.156	0.001	+11.6

[1] Based on daily rates prior to rounding.
[2] Includes crude oil, lease condensate, and natural gas plant liquids.
[3] Other is hydroelectric, nuclear, and geothermal power and electricity produced from wood, waste, and wind energy.
[4] Includes refined petroleum products and natural gas plant liquids.
[5] Other is hydroelectric, nuclear, and geothermal power; electricity produced from wood, waste, and wind energy; and net imports of electricity and coal coke.
[6] Includes crude oil, lease condensate, refined petroleum products, unfinished oils, natural gasoline, plant condensate, and imports of crude oil for the Strategic Petroleum Reserve.
[7] Parentheses indicate exports are greater than imports.
[8] Other is net imports of electricity and coal coke.
Note: • Totals may not equal sum of components due to independent rounding.

First Half 1984 Summary

Preliminary figures for U.S. energy production, consumption, and net imports during the first half of 1984 all increased compared to their levels in the first half of 1983. During the first 6 months of 1984, total energy produced was 9.0 percent* higher and total energy consumed was 7.9 percent higher than during the same period in 1983. Net imports rose for the second consecutive year, increasing 28.8 percent from the level of net imports in the first half of 1983.

U.S. energy production in the first half of 1984 totaled 33.0 quadrillion Btu (181 trillion Btu per day), compared to 30.1 quadrillion Btu (166 trillion Btu per day) in the first half of 1983 (Figure 1). The rise in production was due primarily to increases in the production of coal and natural gas of 18.3 percent and 11.4 percent, respectively. Production of petroleum (crude oil, lease condensate, and natural gas plant liquids) was up 0.6 percent from production during the same period of 1983. Electricity generated from nuclear power increased 13.2 percent, but electricity generated from hydroelectric power decreased 1.0 percent in the first half of 1984 compared to the first half of 1983.

U.S. energy consumption in the first half of 1984 totaled 37.5 quadrillion Btu (206 trillion Btu per day), up 7.9 percent compared to the 34.5 quadrillion Btu (191 trillion Btu per day) consumed in the first half of 1983 (Figure 2). The 1984 increase was the first increase since 1979, when energy consumption during the first 6 months of the year peaked at 40.4 quadrillion Btu (223 trillion Btu per day). Consumption of all three major fossil fuels increased significantly in the first half of 1984 compared to the same period 1 year earlier. Coal consumption was up 12.6 percent; natural gas, 7.7 percent; and petroleum, 6.0 percent.

U.S. net imports of energy totaled 4.6 quadrillion Btu in the first half of 1984, up 28.8 percent from the 3.5 quadrillion total for the first half of 1983. The rate of net imports for that period was 25 trillion Btu per day, up from 19 trillion Btu per day for the year before, but about half the peak rate of 51 trillion Btu per day recorded in the first half of 1977 (Figure 3). The increase in net imports of energy comparing the first 6 months of 1984 and 1983 was attributed primarily to a 29.6-percent rise in net imports of petroleum. The level of net imports of natural gas decreased 10.3 percent comparing the same periods. Net exports of coal during the first half of 1984 increased 9.4 percent compared to net exports of coal during the first half of 1983.

*All percentage increases and decreases are calculated using a daily rate prior to rounding.

Figure 1. U.S. Energy Production

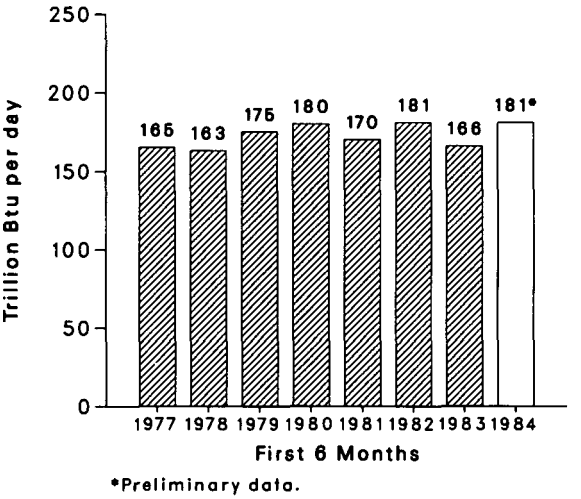


Figure 2. U.S. Energy Consumption

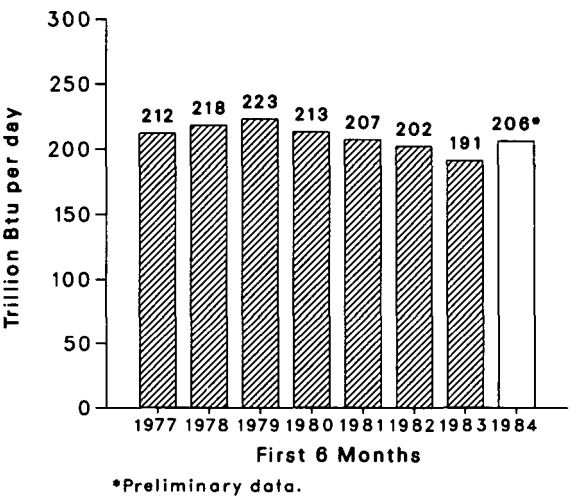
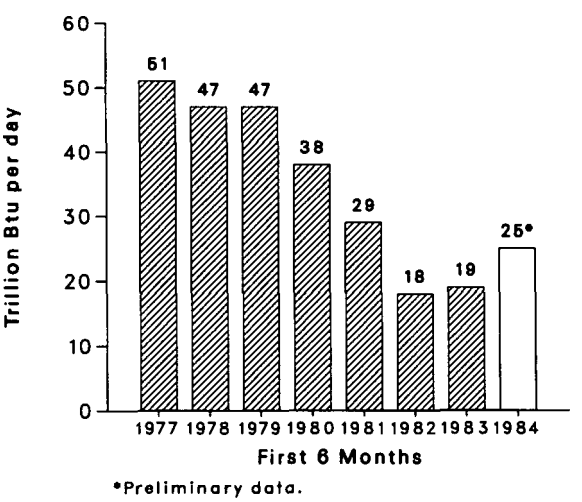


Figure 3. U.S. Energy Net Imports



Executive Summary

Production of Energy by Source—Quarterly Summary

		Coal	Crude Oil[1]	NGPL[2]	Natural Gas (Dry)	Hydro-electric Power[3]	Nuclear Electric Power	Other[4]	Total Energy Produced
					Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**13.926**	**19.493**	**2.569**	**22.187**	**2.861**	**0.910**	**0.046**	**61.993**
1974	**TOTAL**	**14.010**	**18.575**	**2.471**	**21.210**	**3.177**	**1.272**	**0.056**	**60.770**
1975	**TOTAL**	**14.931**	**17.729**	**2.374**	**19.640**	**3.155**	**1.900**	**0.072**	**59.801**
1976	**TOTAL**	**15.649**	**17.262**	**2.327**	**19.480**	**2.976**	**2.111**	**0.081**	**59.886**
1977	1st Quarter	3.643	4.188	0.571	5.046	0.589	0.672	0.021	14.730
	2nd Quarter	4.220	4.279	0.586	4.869	0.577	0.667	0.020	15.218
	3rd Quarter	4.009	4.426	0.579	4.804	0.528	0.691	0.020	15.058
	4th Quarter	3.807	4.560	0.592	4.847	0.639	0.671	0.021	15.136
	TOTAL	**15.679**	**17.454**	**2.327**	**19.565**	**2.333**	**2.702**	**0.082**	**60.142**
1978	1st Quarter	1.948	4.431	0.555	5.014	0.753	0.767	0.019	13.488
	2nd Quarter	4.401	4.658	0.563	4.834	0.829	0.658	0.013	15.957
	3rd Quarter	3.987	4.680	0.561	4.807	0.710	0.796	0.018	15.560
	4th Quarter	4.520	4.664	0.567	4.830	0.644	0.802	0.018	16.045
	TOTAL	**14.856**	**18.434**	**2.245**	**19.485**	**2.937**	**3.024**	**0.068**	**61.049**
1979	1st Quarter	4.015	4.455	0.550	5.084	0.756	0.849	0.020	15.729
	2nd Quarter	4.569	4.502	0.570	4.953	0.831	0.539	0.021	15.984
	3rd Quarter	4.248	4.524	0.571	4.889	0.660	0.727	0.023	15.641
	4th Quarter	4.652	4.623	0.595	5.151	0.684	0.661	0.025	16.391
	TOTAL	**17.483**	**18.104**	**2.286**	**20.076**	**2.931**	**2.776**	**0.089**	**63.744**
1980	1st Quarter	4.606	4.588	0.578	5.287	0.746	0.644	0.024	16.473
	2nd Quarter	4.739	4.552	0.571	4.885	0.864	0.605	0.028	16.244
	3rd Quarter	4.437	4.549	0.547	4.706	0.666	0.752	0.031	15.688
	4th Quarter	4.762	4.559	0.558	5.029	0.624	0.738	0.032	16.302
	TOTAL	**18.544**	**18.249**	**2.254**	**19.907**	**2.900**	**2.739**	**0.114**	**64.708**
1981	1st Quarter	4.787	4.481	0.581	4.995	0.678	0.743	0.033	16.298
	2nd Quarter	3.025	4.519	0.570	4.942	0.754	0.679	0.031	14.519
	3rd Quarter	5.220	4.569	0.575	4.881	0.683	0.821	0.033	16.782
	4th Quarter	5.300	4.577	0.581	4.880	0.644	0.765	0.030	16.777
	TOTAL	**18.331**	**18.146**	**2.307**	**19.699**	**2.758**	**3.008**	**0.127**	**64.376**
1982	1st Quarter	4.933	4.502	0.547	4.916	0.883	0.756	0.023	16.560
	2nd Quarter	4.804	4.561	0.537	4.572	0.888	0.743	0.025	16.128
	3rd Quarter	4.470	4.623	0.541	4.385	0.752	0.835	0.030	15.637
	4th Quarter	4.396	4.624	0.566	4.382	0.748	0.781	0.030	15.527
	TOTAL	**18.603**	**18.309**	**2.191**	**18.255**	**3.271**	**3.115**	**0.108**	**63.851**
1983	1st Quarter	4.249	R4.550	R0.543	4.186	0.925	0.784	0.028	R15.266
	2nd Quarter	4.127	R4.587	R0.529	3.826	0.972	0.755	0.026	R14.822
	3rd Quarter	4.398	R4.642	0.556	4.014	0.800	0.846	0.042	R15.298
	4th Quarter	4.512	R4.613	R0.566	4.393	0.814	0.850	0.039	R15.788
	TOTAL	**17.286**	**R18.392**	**R2.195**	**16.419**	**R3.510**	**3.235**	**0.135**	**R61.173**
1984	1st Quarter	R4.932	4.592	0.562	R4.624	0.931	0.926	0.039	R16.605
	2nd Quarter	5.034	4.607	0.566	4.348	0.957	0.825	0.042	16.380

[1]Includes lease condensate.
[2]Natural gas plant liquids.
[3]Includes industrial and utility production of hydropower.
[4]Includes only geothermal power and electricity produced from wood, waste, and wind energy.
R=Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data do not include wood-derived fuel (other than that consumed by the electric utilities). Data also exclude small quantities of energy forms for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; and geothermal, biomass, waste, and wind energy (other than that consumed at electric utilities).
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Executive Summary

Consumption of Energy by Source—Quarterly Summary

		Coal	Natural Gas (Dry)	Petroleum	Hydro-electric Power[1]	Nuclear Electric Power	Net Imports of Coal Coke[2]	Other[3]	Total Energy Consumed
					Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**12.903**	**22.512**	**34.840**	**3.010**	**0.910**	**(0.008)**	**0.046**	**74.212**
1974	**TOTAL**	**12.596**	**21.732**	**33.455**	**3.309**	**1.272**	**0.059**	**0.056**	**72.479**
1975	**TOTAL**	**12.601**	**19.948**	**32.731**	**3.219**	**1.900**	**0.014**	**0.072**	**70.485**
1976	**TOTAL**	**13.519**	**20.345**	**35.175**	**3.066**	**2.111**	**0.000**	**0.081**	**74.297**
1977	1st Quarter	3.499	6.063	9.772	0.634	0.672	(0.004)	0.021	20.657
	2nd Quarter	3.289	4.238	8.800	0.623	0.667	(0.002)	0.020	17.636
	3rd Quarter	3.604	4.202	9.019	0.574	0.691	0.010	0.020	18.121
	4th Quarter	3.456	5.428	9.531	0.684	0.671	0.011	0.021	19.801
	TOTAL	**13.848**	**19.931**	**37.122**	**2.515**	**2.702**	**0.015**	**0.082**	**76.215**
1978	1st Quarter	3.138	6.561	9.971	0.804	0.767	0.008	0.019	21.268
	2nd Quarter	3.256	4.247	9.081	0.880	0.658	0.047	0.013	18.182
	3rd Quarter	3.712	3.926	9.178	0.762	0.796	0.040	0.018	18.433
	4th Quarter	3.604	5.265	9.735	0.696	0.802	0.037	0.018	20.157
	TOTAL	**13.710**	**20.000**	**37.965**	**3.141**	**3.024**	**0.131**	**0.068**	**78.039**
1979	1st Quarter	3.755	6.648	10.072	0.808	0.849	0.009	0.020	22.160
	2nd Quarter	3.559	4.423	8.837	0.883	0.539	0.026	0.021	18.288
	3rd Quarter	3.861	4.085	8.879	0.713	0.727	0.025	0.023	18.313
	4th Quarter	3.809	5.510	9.337	0.737	0.661	0.005	0.025	20.084
	TOTAL	**14.983**	**20.666**	**37.123**	**3.141**	**2.776**	**0.066**	**0.089**	**78.845**
1980	1st Quarter	3.982	6.606	9.143	0.800	0.644	(0.001)	0.024	21.199
	2nd Quarter	3.534	4.255	8.177	0.919	0.605	(0.015)	0.028	17.504
	3rd Quarter	4.007	3.977	8.123	0.721	0.752	(0.012)	0.031	17.598
	4th Quarter	3.849	5.553	8.759	0.678	0.738	(0.010)	0.032	19.599
	TOTAL	**15.373**	**20.391**	**34.202**	**3.118**	**2.739**	**(0.037)**	**0.114**	**75.900**
1981	1st Quarter	4.056	6.237	8.391	0.763	0.743	(0.004)	0.033	20.219
	2nd Quarter	3.666	4.337	7.732	0.841	0.679	(0.006)	0.031	17.280
	3rd Quarter	4.178	3.997	7.785	0.770	0.821	(0.001)	0.033	17.583
	4th Quarter	3.959	5.355	8.023	0.731	0.765	(0.006)	0.030	18.858
	TOTAL	**15.860**	**19.926**	**31.931**	**3.105**	**3.008**	**(0.017)**	**0.127**	**73.940**
1982	1st Quarter	4.038	6.396	7.745	R0.953	0.756	(0.004)	0.023	R19.907
	2nd Quarter	3.549	3.841	7.535	R0.941	0.743	(0.007)	0.025	R16.626
	3rd Quarter	3.982	3.532	7.419	R0.838	0.835	(0.008)	0.030	R16.629
	4th Quarter	3.722	4.738	7.532	R0.846	0.781	(0.004)	0.030	R17.645
	TOTAL	**15.291**	**18.507**	**30.232**	**R3.577**	**3.115**	**(0.023)**	**0.108**	**R70.807**
1983	1st Quarter	3.732	R5.353	R7.316	R1.010	0.784	(0.003)	0.028	R18.220
	2nd Quarter	3.564	R3.631	R7.298	R1.051	0.755	(0.005)	0.026	R16.320
	3rd Quarter	4.434	R3.400	R7.632	R0.903	0.846	(0.003)	0.042	R17.253
	4th Quarter	4.147	R5.094	R7.830	R0.916	0.850	(0.005)	0.039	R18.871
	TOTAL	**15.877**	**R17.477**	**R30.076**	**R3.880**	**3.235**	**(0.016)**	**0.135**	**R70.664**
1984	1st Quarter	R4.316	R5.860	7.906	R1.023	0.926	0.002	0.039	R20.071
	2nd Quarter	3.947	3.871	7.670	1.042	0.825	(0.004)	0.042	17.394

[1]Includes industrial and utility production and net imports of electricity.
[2]Parentheses indicate exports are greater than imports.
[3]Includes only geothermal power and electricity produced from wood, waste, and wind energy.
R = Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data do not include wood-derived fuel (other than that consumed by the electric utilities). Data also exclude small quantities of energy forms for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; and geothermal, biomass, waste, and wind energy (other than that consumed at electric utilities).
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Executive Summary

Net Imports[1] of Energy by Source—Quarterly Summary

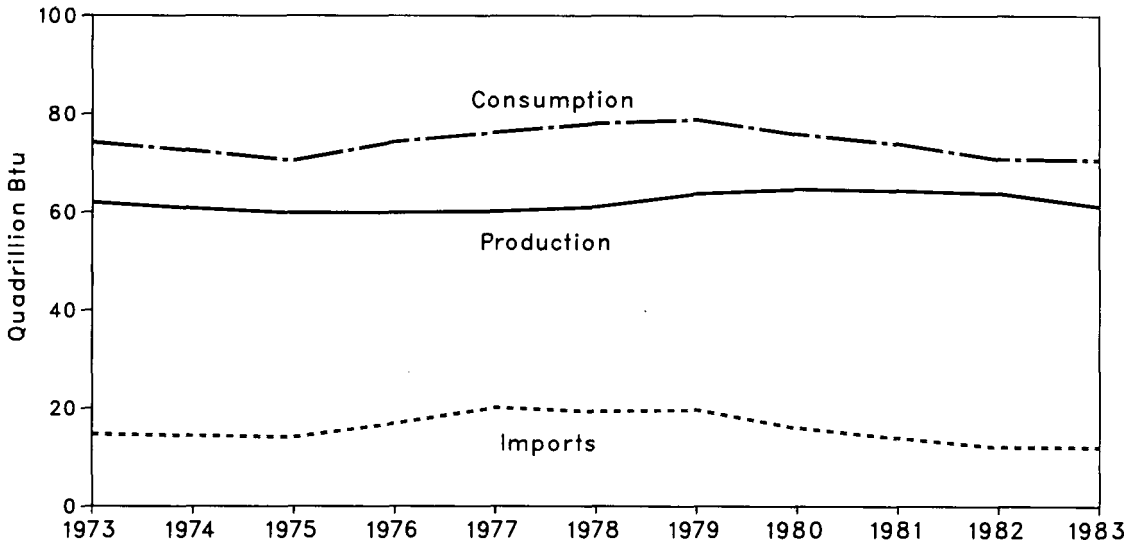
		Coal	Crude Oil[2]	Refined Petroleum Products[3]	Natural Gas (Dry)	Electricity	Coal Coke	Total Net Imports
				Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**(1.422)**	**6.883**	**6.097**	**0.981**	**0.148**	**(0.008)**	**12.679**
1974	**TOTAL**	**(1.568)**	**7.389**	**5.273**	**0.907**	**0.133**	**0.059**	**12.192**
1975	**TOTAL**	**(1.738)**	**8.708**	**3.800**	**0.904**	**0.064**	**0.014**	**11.753**
1976	**TOTAL**	**(1.567)**	**11.221**	**3.982**	**0.922**	**0.089**	**0.000**	**14.648**
1977	1st Quarter	(0.227)	3.403	1.432	0.274	0.045	(0.004)	4.924
	2nd Quarter	(0.455)	3.628	0.881	0.241	0.045	(0.002)	4.339
	3rd Quarter	(0.380)	3.513	1.043	0.213	0.046	0.010	4.445
	4th Quarter	(0.339)	3.377	0.965	0.253	0.046	0.011	4.311
	TOTAL	**(1.401)**	**13.921**	**4.321**	**0.981**	**0.182**	**0.015**	**18.019**
1978	1st Quarter	(0.036)	3.138	1.112	0.241	0.050	0.008	4.512
	2nd Quarter	(0.306)	3.063	0.891	0.214	0.051	0.047	3.961
	3rd Quarter	(0.264)	3.422	0.942	0.209	0.052	0.040	4.401
	4th Quarter	(0.398)	3.502	0.987	0.276	0.052	0.037	4.455
	TOTAL	**(1.004)**	**13.125**	**3.932**	**0.941**	**0.204**	**0.131**	**17.329**
1979	1st Quarter	(0.277)	3.311	1.051	0.307	0.052	0.009	4.454
	2nd Quarter	(0.452)	3.252	0.787	0.307	0.052	0.026	3.973
	3rd Quarter	(0.455)	3.417	0.826	0.295	0.053	0.025	4.161
	4th Quarter	(0.517)	3.348	0.939	0.333	0.053	0.005	4.161
	TOTAL	**(1.702)**	**13.328**	**3.603**	**1.243**	**0.211**	**0.066**	**16.748**
1980	1st Quarter	(0.363)	3.021	0.902	0.326	0.054	(0.001)	3.940
	2nd Quarter	(0.652)	2.696	0.625	0.203	0.054	(0.015)	2.912
	3rd Quarter	(0.678)	2.446	0.626	0.174	0.055	(0.012)	2.611
	4th Quarter	(0.698)	2.423	0.760	0.254	0.055	(0.010)	2.783
	TOTAL	**(2.391)**	**10.586**	**2.912**	**0.957**	**0.217**	**(0.037)**	**12.246**
1981	1st Quarter	(0.578)	2.368	0.729	0.244	0.086	(0.004)	2.846
	2nd Quarter	(0.529)	2.127	0.552	0.185	0.087	(0.006)	2.415
	3rd Quarter	(0.883)	2.239	0.628	0.184	0.088	(0.001)	2.254
	4th Quarter	(0.929)	2.119	0.613	0.242	0.088	(0.006)	2.128
	TOTAL	**(2.918)**	**8.854**	**2.522**	**0.855**	**0.347**	**(0.017)**	**9.643**
1982	1st Quarter	(0.668)	1.524	0.569	0.257	R0.070	(0.004)	R1.748
	2nd Quarter	(0.826)	1.672	0.466	0.190	R0.053	(0.007)	R1.548
	3rd Quarter	(0.655)	1.970	0.536	0.181	R0.086	(0.008)	R2.111
	4th Quarter	(0.619)	1.751	0.557	0.268	R0.098	(0.004)	R2.050
	TOTAL	**(2.768)**	**6.917**	**2.128**	**0.896**	**R0.307**	**(0.023)**	**R7.458**
1983	1st Quarter	(0.392)	R1.224	R0.371	R0.283	R0.086	(0.003)	R1.568
	2nd Quarter	(0.525)	R1.686	R0.536	R0.184	R0.079	(0.005)	R1.954
	3rd Quarter	(0.572)	R2.110	R0.740	R0.169	R0.104	(0.003)	R2.547
	4th Quarter	(0.524)	R1.711	R0.693	0.241	R0.102	(0.005)	R2.218
	TOTAL	**(2.013)**	**R6.730**	**R2.340**	**R0.878**	**R0.370**	**(0.016)**	**R8.288**
1984	1st Quarter	(0.391)	1.568	0.912	0.225	R0.092	0.002	R2.409
	2nd Quarter	(0.617)	1.794	0.699	0.197	0.085	(0.004)	2.154

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

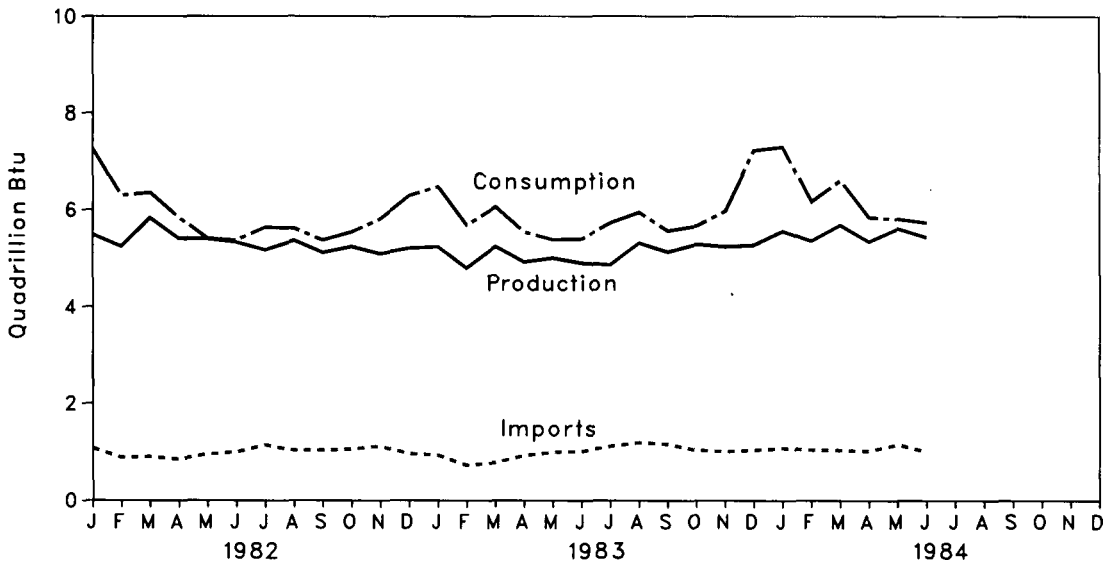
Executive Summary

Energy Summary

Yearly



Monthly



Executive Summary

Energy Summary[1]

		Production[2]	Consumption[2]	Imports[2]	Exports	Net Imports
				Quadrillion (10^{15}) Btu		
1973	**TOTAL**	**61.993**	**74.212**	**14.732**	**2.053**	**12.679**
1974	**TOTAL**	**60.770**	**72.479**	**14.417**	**2.224**	**12.192**
1975	**TOTAL**	**59.801**	**70.485**	**14.113**	**2.361**	**11.753**
1976	**TOTAL**	**59.886**	**74.297**	**16.838**	**2.190**	**14.648**
1977	**TOTAL**	**60.142**	**76.215**	**20.092**	**2.073**	**18.019**
1978	**TOTAL**	**61.049**	**78.039**	**19.261**	**1.932**	**17.329**
1979	**TOTAL**	**63.744**	**78.845**	**19.620**	**2.872**	**16.748**
1980	**TOTAL**	**64.708**	**75.900**	**15.972**	**3.726**	**12.246**
1981	**TOTAL**	**64.376**	**73.940**	**13.974**	**4.331**	**9.643**
1982	January	5.489	7.262	1.086	0.318	0.768
	February	5.236	6.292	0.890	0.376	0.514
	March	5.835	6.353	0.909	0.442	0.466
	April	5.408	5.847	0.855	0.428	0.427
	May	5.395	5.409	0.958	0.421	0.537
	June	5.325	5.371	1.004	0.419	0.585
	July	5.165	5.641	1.150	0.388	0.762
	August	5.362	5.618	1.041	0.358	0.683
	September	5.109	5.369	1.042	0.376	0.666
	October	5.236	5.542	1.067	0.437	0.629
	November	5.090	5.815	1.125	0.351	0.774
	December	5.202	6.289	0.969	0.322	0.647
	TOTAL	**63.851**	**70.807**	**12.095**	**4.637**	**7.458**
1983	January	5.231	6.473	0.940	0.301	0.639
	February	4.798	5.684	0.731	0.264	0.466
	March	5.236	6.062	0.782	0.319	0.463
	April	4.920	5.542	0.930	0.314	0.616
	May	5.001	5.382	1.004	0.348	0.656
	June	4.901	5.396	1.017	0.334	0.683
	July	4.863	5.733	1.123	0.274	0.849
	August	5.310	5.951	1.198	0.348	0.850
	September	5.125	5.569	1.171	0.323	0.848
	October	5.286	5.671	1.049	0.325	0.725
	November	5.235	5.976	1.018	0.280	0.738
	December	5.267	7.223	1.046	0.290	0.756
	TOTAL	**61.173**	**70.664**	**12.008**	**3.720**	**8.288**
1984	January	5.563	7.298	1.088	0.245	0.843
	February	5.354	6.168	1.052	0.217	0.834
	March	5.689	6.605	1.045	0.313	0.731
	April	R5.339	R5.848	1.031	0.326	0.705
	May	R5.611	R5.810	1.163	0.365	0.798
	June	5.430	5.736	1.016	0.366	0.650

[1]For definitions, see Notes on the last page of this section.
[2]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.
R = Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
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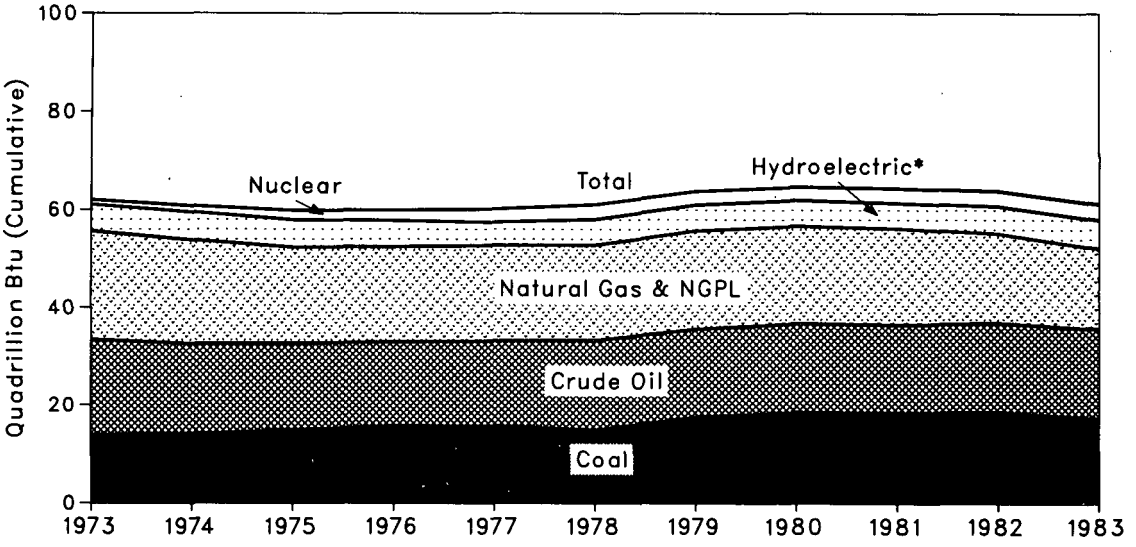
• Data do not include wood-derived fuel (other than that consumed by the electric utilities). Data also exclude small quantities of energy forms for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; and geothermal, biomass, waste, and wind energy (other than that consumed at electric utilities).
Source: • Energy Information Administration calculations based on data appearing elsewhere in this publication.

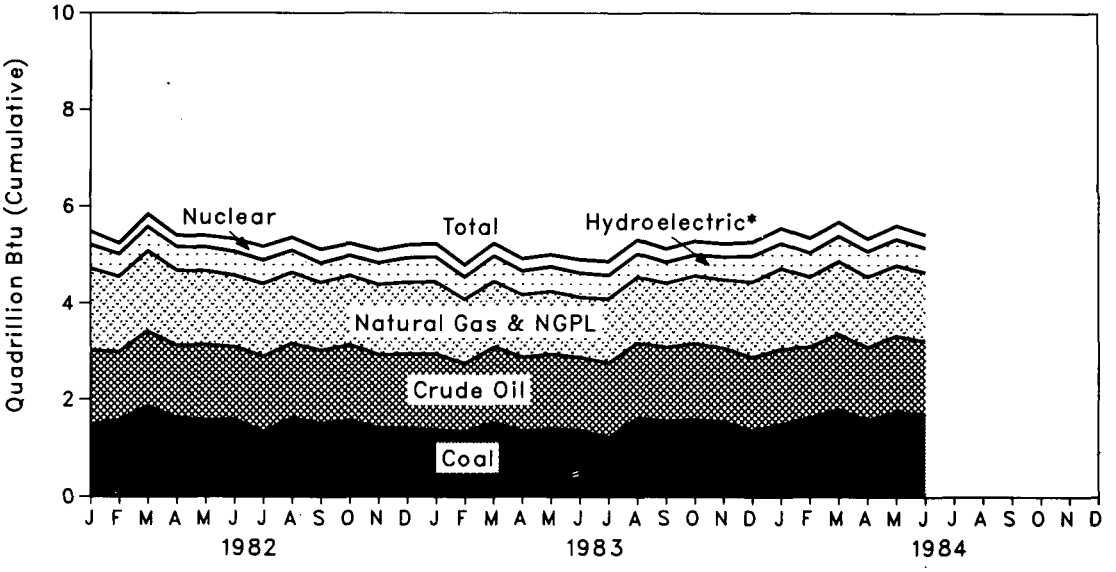
Executive Summary

Production of Energy by Source

Yearly



Monthly



*Includes industrial and utility production of hydropower. Also includes geothermal power and electricity produced from wood, waste, and wind energy.

Executive Summary

Production of Energy by Source

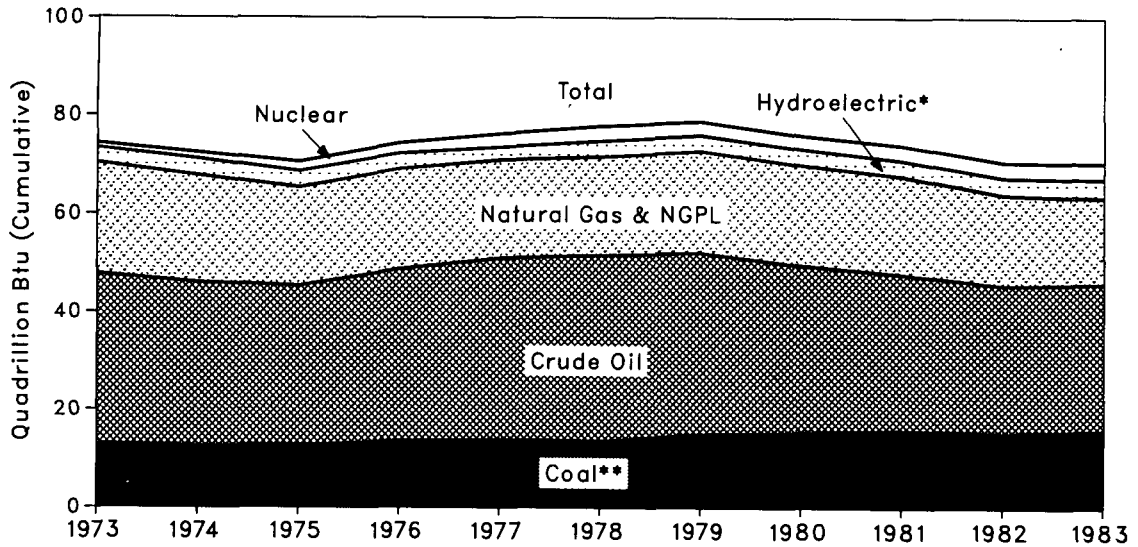
		Coal	Crude Oil[1]	NGPL[2]	Natural Gas (Dry)	Hydro-electric Power[3]	Nuclear Electric Power	Other[4]	Total Energy Produced	Yearly Cumulative Energy Produced
					Quadrillion (10^{15}) Btu					
1973	**TOTAL**	**13.926**	**19.493**	**2.569**	**22.187**	**2.861**	**0.910**	**0.046**	**61.993**	
1974	**TOTAL**	**14.010**	**18.575**	**2.471**	**21.210**	**3.177**	**1.272**	**0.056**	**60.770**	
1975	**TOTAL**	**14.931**	**17.729**	**2.374**	**19.640**	**3.155**	**1.900**	**0.072**	**59.801**	
1976	**TOTAL**	**15.649**	**17.262**	**2.327**	**19.480**	**2.976**	**2.111**	**0.081**	**59.886**	
1977	**TOTAL**	**15.679**	**17.454**	**2.327**	**19.565**	**2.333**	**2.702**	**0.082**	**60.142**	
1978	**TOTAL**	**14.856**	**18.434**	**2.245**	**19.485**	**2.937**	**3.024**	**0.068**	**61.049**	
1979	**TOTAL**	**17.483**	**18.104**	**2.286**	**20.076**	**2.931**	**2.776**	**0.089**	**63.744**	
1980	**TOTAL**	**18.544**	**18.249**	**2.254**	**19.907**	**2.900**	**2.739**	**0.114**	**64.708**	
1981	**TOTAL**	**18.331**	**18.146**	**2.307**	**19.699**	**2.758**	**3.008**	**0.127**	**64.376**	
1982	January	1.490	1.530	0.189	1.703	0.285	0.283	0.009	5.489	5.489
	February	1.580	1.413	0.169	1.562	0.282	0.222	0.008	5.236	10.725
	March	1.863	1.558	0.189	1.651	0.316	0.251	0.007	5.835	16.560
	April	1.633	1.495	0.179	1.558	0.296	0.240	0.007	5.408	21.968
	May	1.579	1.561	0.182	1.530	0.296	0.238	0.008	5.395	27.362
	June	1.592	1.504	0.175	1.483	0.296	0.265	0.010	5.325	32.688
	July	1.344	1.557	0.182	1.504	0.289	0.281	0.010	5.165	37.853
	August	1.618	1.552	0.183	1.471	0.253	0.275	0.010	5.362	43.216
	September	1.508	1.514	0.176	1.410	0.211	0.280	0.010	5.109	48.324
	October	1.573	1.565	0.184	1.439	0.209	0.256	0.011	5.236	53.560
	November	1.422	1.513	0.187	1.455	0.246	0.256	0.011	5.090	58.650
	December	1.401	1.546	0.195	1.489	0.293	0.269	0.009	5.202	63.851
	TOTAL	**18.603**	**18.309**	**2.191**	**18.255**	**3.271**	**3.115**	**0.108**	**63.851**	
1983	January	1.384	1.564	0.189	1.499	0.309	0.276	0.011	5.231	5.231
	February	1.336	1.422	0.170	1.321	0.295	0.245	0.008	4.798	10.029
	March	1.529	1.564	0.184	1.366	0.320	0.263	0.010	5.236	15.266
	April	1.356	1.527	0.174	1.291	0.317	0.246	0.009	4.920	20.186
	May	1.393	1.552	0.179	1.297	0.330	0.243	0.007	5.001	25.187
	June	1.378	1.508	0.176	1.238	0.325	0.266	0.010	4.901	30.088
	July	1.219	1.553	0.184	1.316	0.297	0.282	0.012	4.863	34.950
	August	1.619	1.561	0.187	1.366	0.273	0.289	0.016	5.310	40.260
	September	1.560	1.528	0.185	1.332	0.230	0.275	0.014	5.125	45.385
	October	1.594	1.577	0.192	1.404	0.219	0.284	0.015	5.286	50.671
	November	1.547	1.526	0.190	1.423	0.261	0.275	0.013	5.235	55.906
	December	1.371	1.510	0.185	1.566	0.334	0.290	0.011	5.267	61.173
	TOTAL	**17.286**	**18.392**	**2.195**	**16.419**	**3.510**	**3.235**	**0.135**	**61.173**	
1984	January	1.497	1.557	0.190	1.673	0.314	0.321	0.011	5.563	5.563
	February	1.631	1.468	0.182	1.453	0.295	0.312	0.013	5.354	10.916
	March	1.803	1.567	0.190	1.499	0.321	0.293	0.015	5.689	16.605
	April	1.575	1.512	0.187	R1.469	0.317	0.266	0.014	R5.339	R21.945
	May	1.758	1.574	0.193	R1.454	0.337	0.283	0.014	R5.611	R27.555
	June	1.702	1.521	0.187	1.426	0.304	0.277	0.013	5.430	32.985

[1]Includes lease condensate.
[2]Natural gas plant liquids.
[3]Includes industrial and utility production of hydropower.
[4]Includes only geothermal power and electricity produced from wood, waste, and wind energy.
R=Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data do not include wood-derived fuel (other than that consumed by the electric utilities). Data also exclude small quantities of energy forms for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; and geothermal, biomass, waste, and wind energy (other than that consumed at electric utilities).
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

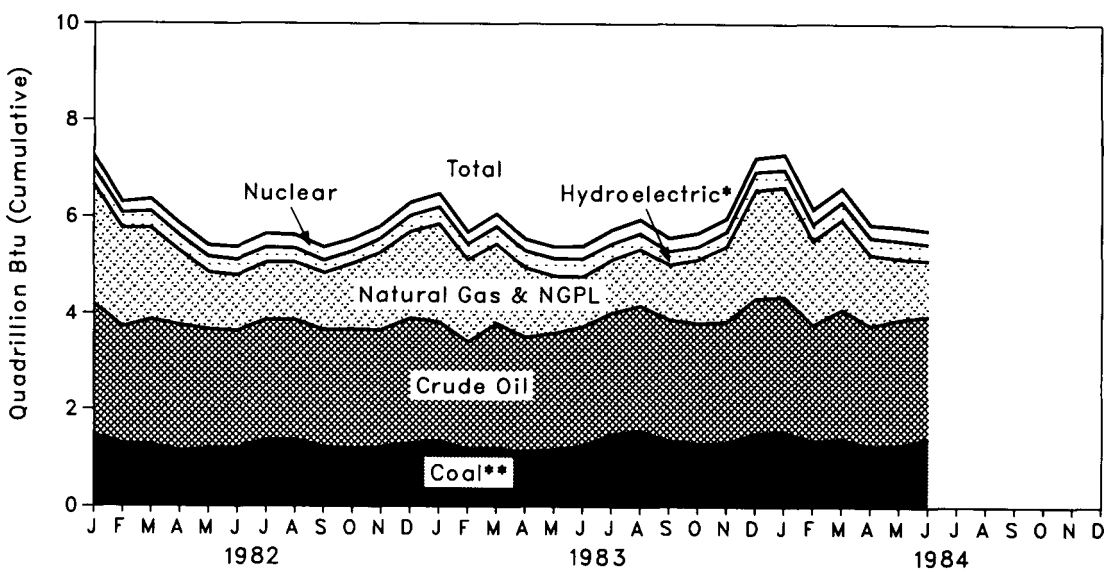
Executive Summary

Consumption of Energy by Source

Yearly



Monthly



*Includes geothermal power and electricity produced from wood, waste, and wind energy.
**Includes net imports of coal coke.

Executive Summary

Consumption of Energy by Source

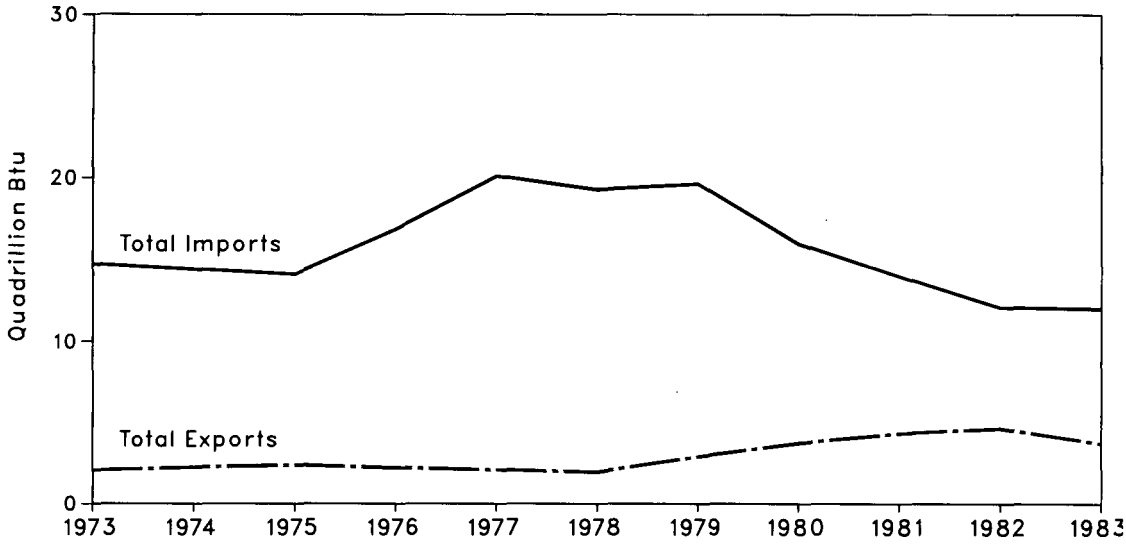
		Coal	Natural Gas (Dry)	Petroleum	Hydroelectric Power[1]	Nuclear Electric Power	Net Imports of Coal Coke[2]	Other[3]	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Quadrillion (10^{15}) Btu					
1973	**TOTAL**	**12.903**	**22.512**	**34.840**	**3.010**	**0.910**	**(0.008)**	**0.046**	**74.212**	
1974	**TOTAL**	**12.596**	**21.732**	**33.455**	**3.309**	**1.272**	**0.059**	**0.056**	**72.479**	
1975	**TOTAL**	**12.601**	**19.948**	**32.731**	**3.219**	**1.900**	**0.014**	**0.072**	**70.485**	
1976	**TOTAL**	**13.519**	**20.345**	**35.175**	**3.066**	**2.111**	**0.000**	**0.081**	**74.297**	
1977	**TOTAL**	**13.848**	**19.931**	**37.122**	**2.515**	**2.702**	**0.015**	**0.082**	**76.215**	
1978	**TOTAL**	**13.710**	**20.000**	**37.965**	**3.141**	**3.024**	**0.131**	**0.068**	**78.039**	
1979	**TOTAL**	**14.983**	**20.666**	**37.123**	**3.141**	**2.776**	**0.066**	**0.089**	**78.845**	
1980	**TOTAL**	**15.373**	**20.391**	**34.202**	**3.118**	**2.739**	**(0.037)**	**0.114**	**75.900**	
1981	**TOTAL**	**15.860**	**19.926**	**31.931**	**3.105**	**3.008**	**(0.017)**	**0.127**	**73.940**	
1982	January	1.486	2.467	2.707	0.311	0.283	0.000	0.009	7.262	7.262
	February	1.292	2.040	2.426	0.305	0.222	(0.001)	0.008	6.292	13.554
	March	1.260	1.889	2.612	0.336	0.251	(0.002)	0.007	6.353	19.907
	April	1.152	1.527	2.607	0.315	0.240	(0.001)	0.007	5.847	25.753
	May	1.186	1.168	2.492	0.319	0.238	(0.003)	0.008	5.409	31.162
	June	1.210	1.146	2.436	0.308	0.265	(0.004)	0.010	5.371	36.533
	July	1.381	1.177	2.488	0.308	0.281	(0.003)	0.010	5.641	42.174
	August	1.374	1.183	2.491	0.286	0.275	(0.001)	0.010	5.618	47.792
	September	1.227	1.172	2.440	0.244	0.280	(0.003)	0.010	5.369	53.162
	October	1.190	1.348	2.494	0.244	0.256	(0.001)	0.011	5.542	58.703
	November	1.229	1.603	2.438	0.279	0.256	(0.002)	0.011	5.815	64.518
	December	1.303	1.788	2.600	0.323	0.269	(0.001)	0.009	6.289	70.807
	TOTAL	**15.291**	**18.507**	**30.232**	**3.577**	**3.115**	**(0.023)**	**0.108**	**70.807**	
1983	January	1.358	2.023	2.469	0.338	0.276	(0.001)	0.011	6.473	6.473
	February	1.179	1.689	2.241	0.324	0.245	(0.001)	0.008	5.684	12.158
	March	1.195	1.641	2.606	0.349	0.263	(0.001)	0.010	6.062	18.220
	April	1.138	1.422	2.385	0.345	0.246	(0.002)	0.009	5.542	23.762
	May	1.171	1.177	2.433	0.353	0.243	(0.002)	0.007	5.382	29.144
	June	1.255	1.032	2.481	0.352	0.266	(0.001)	0.010	5.396	34.540
	July	1.497	1.096	2.519	0.329	0.282	(0.002)	0.012	5.733	40.273
	August	1.572	1.172	2.596	0.307	0.289	(0.001)	0.016	5.951	46.224
	September	1.365	1.132	2.517	0.267	0.275	(0.001)	0.014	5.569	51.793
	October	1.303	1.305	2.509	0.256	0.284	(0.001)	0.015	5.671	57.464
	November	1.324	1.556	2.516	0.293	0.275	(0.001)	0.013	5.976	63.440
	December	1.520	2.233	2.805	0.367	0.290	(0.003)	0.011	7.223	70.664
	TOTAL	**15.877**	**17.477**	**30.076**	**3.880**	**3.235**	**(0.016)**	**0.135**	**70.664**	
1984	January	1.553	2.263	2.805	0.345	0.321	0.001	0.011	7.298	7.298
	February	1.360	1.740	2.414	0.326	0.312	0.002	0.013	6.168	13.466
	March	1.403	1.857	2.686	0.352	0.293	(0.001)	0.015	6.605	20.071
	April	1.247	R1.462	2.513	0.347	0.266	0.000	0.014	R5.848	R25.919
	May	1.282	R1.259	2.611	0.361	0.283	(0.001)	0.014	R5.810	R31.729
	June	1.419	1.150	2.546	0.334	0.277	(0.003)	0.013	5.736	37.465

[1]Includes industrial and utility production and net imports of electricity.
[2]Parentheses indicate exports are greater than imports.
[3]Includes only geothermal power and electricity produced from wood, waste, and wind energy.
R=Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data do not include wood-derived fuel (other than that consumed by the electric utilities). Data also exclude small quantities of energy forms for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; and geothermal, biomass, waste, and wind energy (other than that consumed at electric utilities).
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

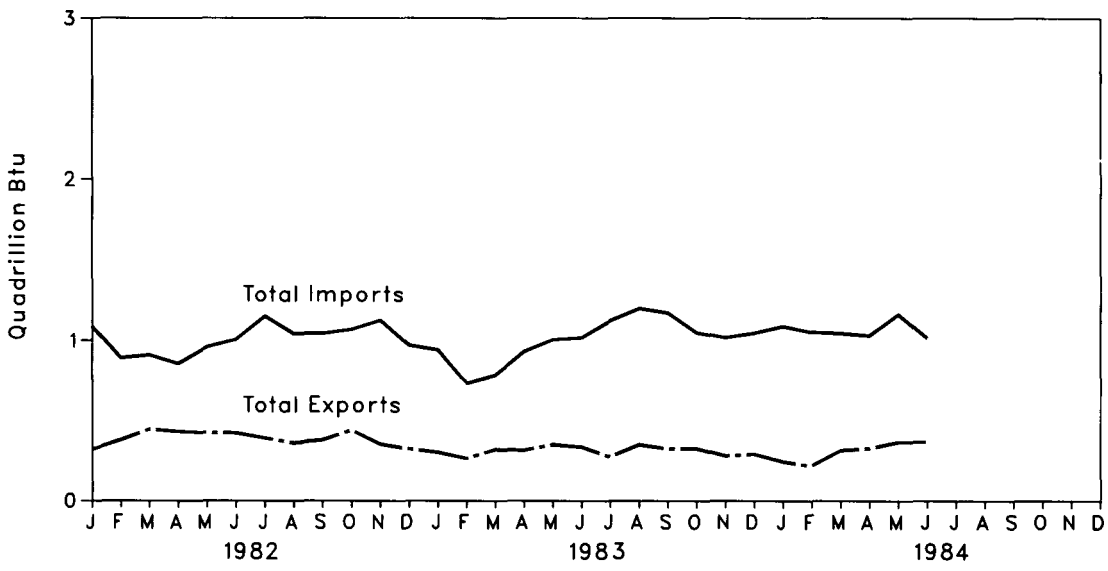
Executive Summary

Energy Imports and Exports

Yearly



Monthly



Executive Summary

Net Imports[1] of Energy by Source

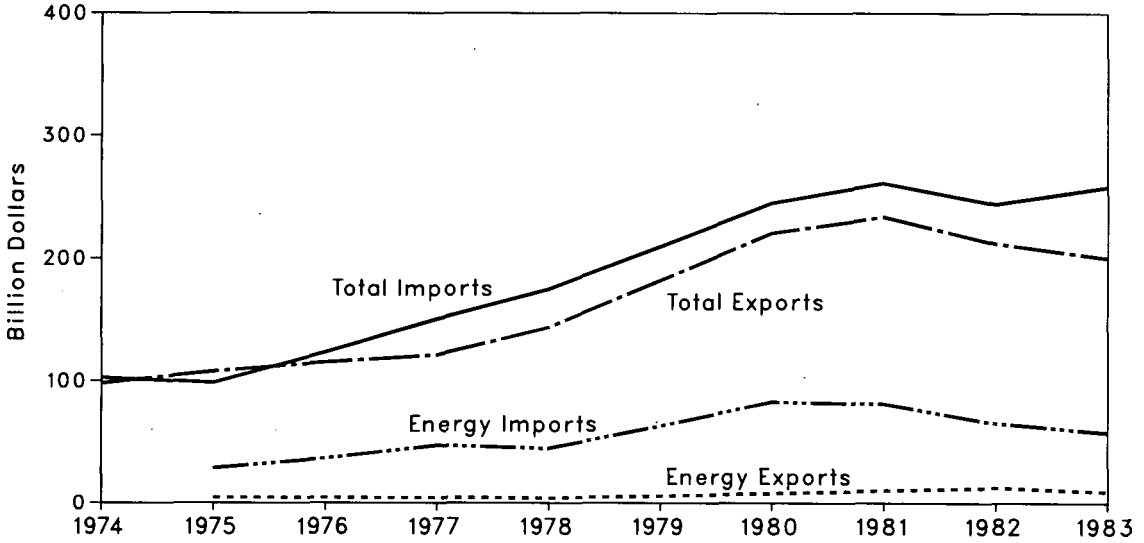
		Coal	Crude Oil[2]	Refined Petroleum Products[3]	Natural Gas (Dry)	Electricity	Coal Coke	Total Net Imports	Yearly Cumulative Net Imports of Energy
					Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**(1.422)**	**6.883**	**6.097**	**0.981**	**0.148**	**(0.008)**	**12.679**	
1974	**TOTAL**	**(1.568)**	**7.389**	**5.273**	**0.907**	**0.133**	**0.059**	**12.192**	
1975	**TOTAL**	**(1.738)**	**8.708**	**3.800**	**0.904**	**0.064**	**0.014**	**11.753**	
1976	**TOTAL**	**(1.567)**	**11.221**	**3.982**	**0.922**	**0.089**	***0.000***	***14.648***	
1977	**TOTAL**	**(1.401)**	**13.921**	**4.321**	**0.981**	**0.182**	**0.015**	**18.019**	
1978	**TOTAL**	**(1.004)**	**13.125**	**3.932**	**0.941**	**0.204**	**0.131**	**17.329**	
1979	**TOTAL**	**(1.702)**	**13.328**	**3.603**	**1.243**	**0.211**	**0.066**	**16.748**	
1980	**TOTAL**	**(2.391)**	**10.586**	**2.912**	**0.957**	**0.217**	**(0.037)**	**12.246**	
1981	**TOTAL**	**(2.918)**	**8.854**	**2.522**	**0.855**	**0.347**	**(0.017)**	**9.643**	
1982	January	(0.160)	0.624	0.181	0.097	0.027	0.000	0.768	0.768
	February	(0.234)	0.438	0.207	0.081	0.023	(0.001)	0.514	1.282
	March	(0.273)	0.461	0.181	0.078	0.020	(0.002)	0.466	1.748
	April	(0.284)	0.468	0.153	0.071	0.019	(0.001)	0.427	2.175
	May	(0.262)	0.551	0.166	0.063	0.022	(0.003)	0.537	2.712
	June	(0.280)	0.654	0.147	0.056	0.012	(0.004)	0.585	3.297
	July	(0.239)	0.726	0.196	0.063	0.019	(0.003)	0.762	4.058
	August	(0.190)	0.641	0.144	0.056	0.033	(0.001)	0.683	4.742
	September	(0.226)	0.603	0.196	0.062	0.033	(0.003)	0.666	5.407
	October	(0.260)	0.614	0.168	0.073	0.035	(0.001)	0.629	6.036
	November	(0.203)	0.629	0.228	0.088	0.033	(0.002)	0.774	6.810
	December	(0.157)	0.507	0.161	0.107	0.030	(0.001)	0.647	7.458
	TOTAL	**(2.768)**	**6.917**	**2.128**	**0.896**	**0.307**	**(0.023)**	**7.458**	
1983	January	(0.116)	0.514	0.105	0.109	0.029	(0.001)	0.639	0.639
	February	(0.113)	0.327	0.133	0.092	0.029	(0.001)	0.466	1.105
	March	(0.162)	0.382	0.133	0.082	0.028	(0.001)	0.463	1.568
	April	(0.157)	0.530	0.148	0.070	0.028	(0.002)	0.616	2.184
	May	(0.180)	0.556	0.201	0.057	0.023	(0.002)	0.656	2.840
	June	(0.188)	0.600	0.187	0.057	0.028	(0.001)	0.683	3.523
	July	(0.159)	0.673	0.251	0.054	0.032	(0.002)	0.849	4.372
	August	(0.217)	0.732	0.251	0.051	0.034	(0.001)	0.850	5.222
	September	(0.195)	0.705	0.238	0.064	0.037	(0.001)	0.848	6.070
	October	(0.209)	0.597	0.240	0.061	0.037	(0.001)	0.725	6.795
	November	(0.153)	0.551	0.232	0.076	0.032	(0.001)	0.738	7.532
	December	(0.162)	0.563	0.222	0.104	0.033	(0.003)	0.756	8.288
	TOTAL	**(2.013)**	**6.730**	**2.340**	**0.878**	**0.370**	**(0.016)**	**8.288**	
1984	January	(0.131)	0.519	0.331	0.093	E0.031	0.001	0.843	0.843
	February	*(0.108)*	*0.468*	*0.375*	*0.067*	*E0.031*	*0.002*	*0.834*	*1.678*
	March	(0.152)	0.581	0.207	0.065	E0.031	(0.001)	0.731	2.409
	April	(0.198)	0.567	0.239	0.068	E0.030	0.000	0.705	3.115
	May	(0.214)	0.670	0.251	0.068	E0.025	(0.001)	0.798	3.913
	June	(0.205)	0.557	0.210	0.060	E0.030	(0.003)	0.650	4.563

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

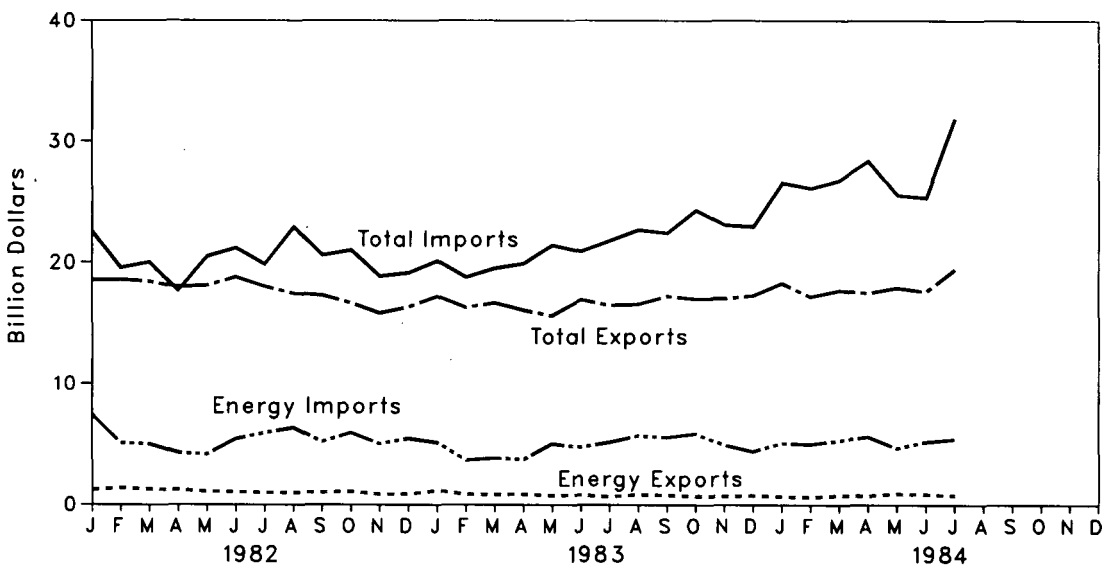
Executive Summary

Merchandise Trade Value

Yearly



Monthly



Executive Summary

Merchandise Trade Value

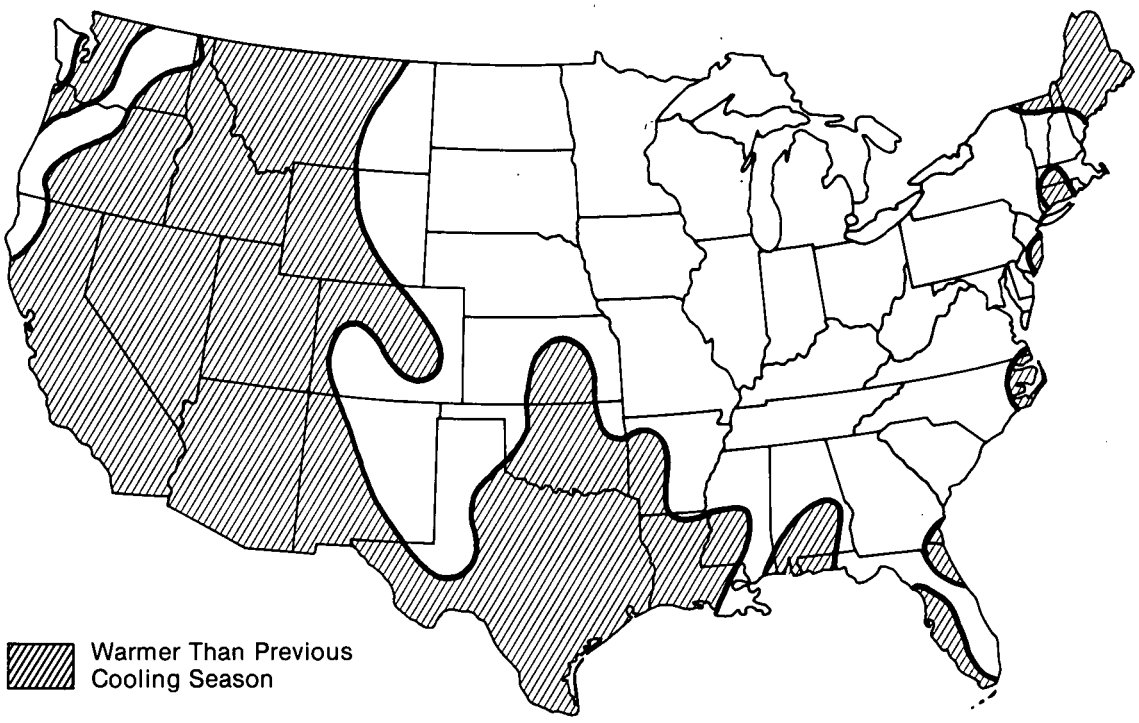
		Exports			Imports			Trade Balance		
		Energy	All Other	Total	Energy	All Other	Total	Energy	All Other	Total
		Million dollars								
1974	**TOTAL**	**NA**	**NA**	**98,092**	**NA**	**NA**	**102,559**	**NA**	**NA**	**-4,467**
1975	**TOTAL**	**4,470**	**103,182**	**107,652**	**28,325**	**70,178**	**98,503**	**-23,855**	**+33,004**	**+9,149**
1976	**TOTAL**	**4,226**	**110,997**	**115,223**	**36,384**	**87,093**	**123,477**	**-32,158**	**+23,904**	**-8,254**
1977	**TOTAL**	**4,184**	**117,048**	**121,232**	**47,153**	**103,237**	**150,390**	**-42,969**	**+13,811**	**-29,158**
1978	**TOTAL**	**3,882**	**139,799**	**143,681**	**44,763**	**129,994**	**174,757**	**-40,881**	**+9,805**	**-31,076**
1979	**TOTAL**	**5,675**	**176,185**	**181,860**	**63,077**	**146,381**	**209,458**	**-57,402**	**+29,803**	**-27,599**
1980	**TOTAL**	**7,982**	**212,644**	**220,626**	**82,924**	**161,947**	**244,871**	**-74,942**	**+50,698**	**-24,244**
1981	**TOTAL**	**10,279**	**223,398**	**233,677**	**81,360**	**179,622**	**260,982**	**-71,081**	**+43,776**	**-27,305**
1982	January	1,205	17,379	18,584	7,439	15,134	22,573	-6,234	+2,245	-3,989
	February	1,361	17,253	18,614	5,107	14,463	19,570	-3,746	+2,790	-956
	March	1,256	17,206	18,462	5,009	15,010	20,019	-3,753	+2,196	-1,557
	April	1,201	16,804	18,005	4,312	13,402	17,714	-3,111	+3,402	+291
	May	1,065	17,059	18,124	4,167	16,310	20,477	-3,102	+749	-2,353
	June	1,035	17,788	18,823	5,427	15,760	21,187	-4,392	+2,028	-2,364
	July	974	17,086	18,060	5,943	13,906	19,849	-4,969	+3,179	-1,790
	August	961	16,502	17,463	6,353	16,577	22,930	-5,392	-75	-5,467
	September	998	16,322	17,320	5,201	15,380	20,581	-4,203	+942	-3,261
	October	1,072	15,599	16,671	5,947	15,059	21,006	-4,875	+540	-4,335
	November	847	15,005	15,852	5,037	13,855	18,892	-4,190	+1,149	-3,041
	December	855	15,492	16,347	5,468	13,686	19,154	-4,613	+1,805	-2,808
	TOTAL	**12,729**	**199,464**	**212,193**	**65,409**	**178,543**	**243,952**	**-52,680**	**+20,921**	**-31,759**
1983	January	1,142	16,090	17,232	5,142	14,985	20,127	-4,000	+1,105	-2,895
	February	833	15,479	16,312	3,704	15,100	18,804	-2,871	+378	-2,493
	March	822	15,868	16,690	3,865	15,663	19,528	-3,043	+206	-2,837
	April	850	15,245	16,095	3,763	16,151	19,914	-2,913	-906	-3,819
	May	750	14,905	15,655	5,033	16,413	21,446	-4,283	-1,508	-5,791
	June	791	16,168	16,959	4,767	16,149	20,916	-3,976	+19	-3,957
	July	644	15,842	16,486	5,164	16,664	21,828	-4,520	-821	-5,341
	August	824	15,758	16,582	5,703	17,011	22,714	-4,879	-1,253	-6,132
	September	778	16,479	17,257	5,571	16,880	22,451	-4,793	-402	-5,195
	October	699	16,334	17,033	5,872	18,461	24,333	-5,173	-2,127	-7,300
	November	689	16,374	17,063	4,951	18,164	23,115	-4,262	-1,790	-6,052
	December	739	16,559	17,298	4,417	18,559	22,976	-3,678	-2,000	-5,678
	TOTAL	**9,500**	**190,986**	**200,486**	**57,952**	**200,096**	**258,048**	**-48,452**	**-9,110**	**-57,562**
1984	January	660	17,667	18,327	5,089	21,497	26,586	-4,429	-3,831	-8,260
	February	610	16,602	17,212	5,006	21,141	26,147	-4,396	-4,539	-8,935
	March	767	16,960	17,727	5,323	21,448	26,771	-4,556	-4,488	-9,044
	April	739	16,783	17,522	5,629	22,739	28,368	-4,890	-5,957	-10,847
	May	893	17,057	17,950	4,696	20,873	25,569	-3,803	-3,816	-7,619
	June	848	16,785	17,633	5,206	20,150	25,356	-4,358	-3,365	-7,723
	July	758	18,684	19,442	5,434	26,449	31,883	-4,676	-7,764	-12,440

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

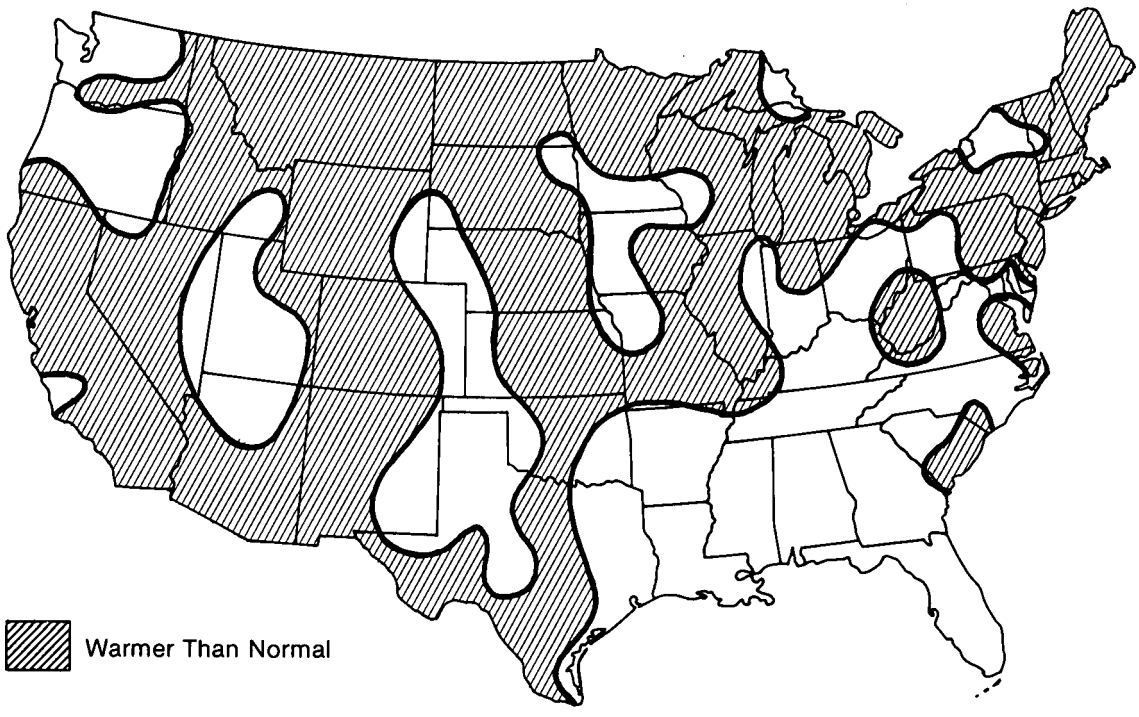
Executive Summary

Cooling Degree-Days Accumulated from January 1, 1984, through September 1, 1984

Departure from Previous Cooling Season



Departure from Normal



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

Executive Summary

Population-Weighted Cooling Degree-Days[1]

Census Divisions	August 1 through August 31					Cumulative January 1 through August 31				
				Percent Change					Percent Change	
	Normal[2]	1983	1984	Normal to 1984	1983 to 1984	Normal[2]	1983	1984	Normal to 1984	1983 to 1984
New England Conn., Maine, Mass., N.H., R.I., Vt.	127	191	197	55.1	3.1	449	579	536	19.4	-7.4
Middle Atlantic N.J., N.Y., Pa.	205	250	240	17.1	-4.0	665	741	670	0.8	-9.6
Eastern North Central Ill., Ind., Mich., Ohio, Wisc.	191	329	242	26.7	-26.4	637	885	681	6.9	-23.1
Western North Central Iowa, Kans., Minn., Mo., Nebr., N.Dak., S.Dak.	249	436	338	35.7	-22.5	834	1049	894	7.2	-14.8
South Atlantic Del., Fla., Ga., Md. and D.C., N.C., S.C., Va., W.Va.	391	439	379	-3.1	-13.7	1439	1460	1372	-4.7	-6.0
Eastern South Central Ala., Ky., Miss., Tenn.	386	481	348	-9.8	-27.7	1288	1314	1179	-8.5	-10.3
Western South Central Ark., La., Okla., Tex.	538	578	534	-0.7	-7.6	1896	1762	1912	0.8	8.5
Mountain Ariz., Colo., Idaho, Mont., Nev., N.Mex., Utah, Wyo.	263	314	282	7.2	-10.2	893	924	978	9.5	5.8
Pacific Coast Calif., Oreg., Wash.	156	234	218	39.7	-6.8	478	564	669	40.0	18.6
U.S. AVERAGE[3]	**275**	**357**	**305**	**10.9**	**-14.6**	**945**	**1031**	**977**	**3.4**	**-5.2**

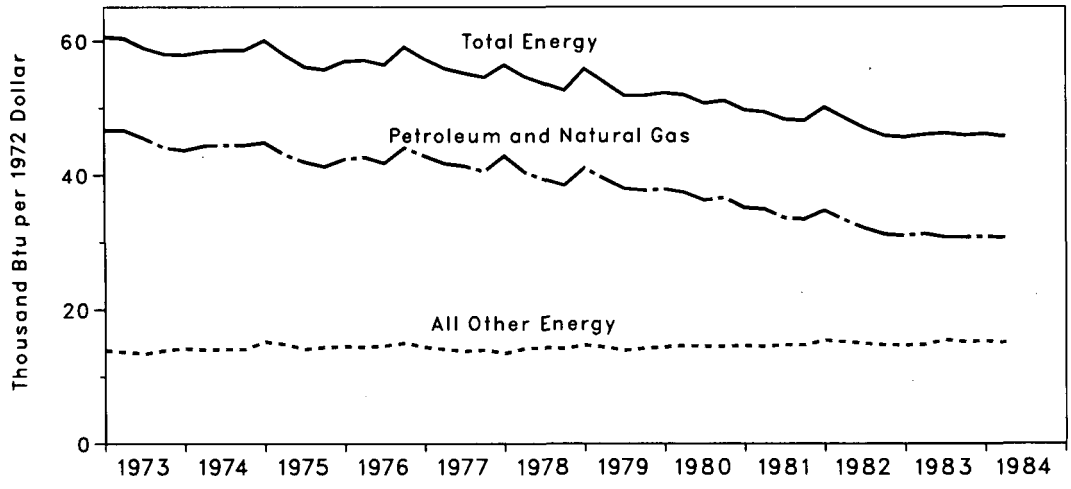
[1] See Note on the last page of this section for explanation of degree-days.
[2] Normal is based on calculations of data from 1951 through 1980.
[3] Excludes Alaska and Hawaii.

Executive Summary

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

		Annual Rate of Energy Consumption	Gross National Product (GNP)	Energy Consumption per Dollar of GNP (Seasonally Adjusted)		
				Total Energy	Petroleum and Natural Gas	All Other Energy
		Quadrillion Btu	Trillion 1972 dollars	Thousand Btu per 1972 dollar		
1973		**74.212**	**1.254**	**59.2**	**45.7**	**13.5**
1974		**72.479**	**1.246**	**58.2**	**44.3**	**13.9**
1975		**70.485**	**1.232**	**57.2**	**42.8**	**14.4**
1976		**74.297**	**1.298**	**57.2**	**42.8**	**14.4**
1977		**76.215**	**1.370**	**55.6**	**41.6**	**14.0**
1978		**78.039**	**1.439**	**54.2**	**40.3**	**13.9**
1979		**78.845**	**1.479**	**53.3**	**39.1**	**14.2**
1980		**75.900**	**1.475**	**51.5**	**37.0**	**14.5**
1981		**73.940**	**1.512**	**48.8**	**34.3**	**14.5**
1982	1st Quarter[1]	74.278	1.484	50.1	34.7	15.4
	2nd Quarter[1]	71.757	1.481	48.5	33.3	15.2
	3rd Quarter[1]	69.370	1.477	47.0	32.1	14.9
	4th Quarter[1]	67.910	1.479	45.9	31.2	14.7
	YEAR	**70.807**	**1.480**	**47.8**	**32.8**	**15.0**
1983	1st Quarter[1]	68.158	1.491	45.7	31.0	14.7
	2nd Quarter[1]	70.333	1.525	46.1	31.3	14.8
	3rd Quarter[1]	71.766	1.550	46.3	30.8	15.5
	4th Quarter[1]	72.341	1.573	46.0	30.8	15.2
	YEAR	**70.664**	**1.535**	**46.0**	**31.0**	**15.0**
1984	1st Quarter[1]	74.447	1.611	46.2	30.9	15.3
	2nd Quarter[1]	75.127	1.641	45.8	30.7	15.1

Quarterly Energy Consumption per Dollar of Gross National Product[1] (Seasonally Adjusted)



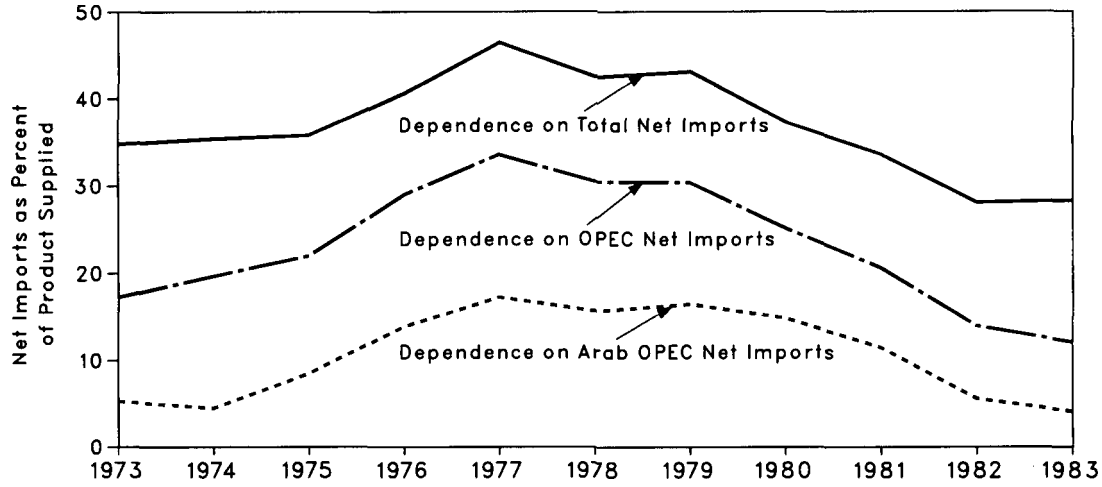
[1]Quarterly data are seasonally adjusted and shown at annual rates.
Notes • Geographic coverage is the 50 States and the District of Columbia.
• Yearly data may not equal average of quarters due to seasonality adjustments and independent rounding.
Sources: • See the last page of this section.

Executive Summary

Energy Indicator—U.S. Dependence on Petroleum Net Imports[1]

		Net Imports[2]				Net Imports as Percent of U.S. Petroleum Products Supplied		
		From Arab OPEC[3] Countries	From All OPEC[4] Countries	From All Countries	Petroleum Products Supplied	From Arab OPEC[3] Countries	From All OPEC[4] Countries	From All Countries
ANNUAL RATE			Thousand barrels per day				Percent	
1973	**AVERAGE**	**914**	**2,991**	**6,025**	**17,308**	**5.3**	**17.3**	**34.8**
1974	**AVERAGE**	**752**	**3,277**	**5,892**	**16,653**	**4.5**	**19.7**	**35.4**
1975	**AVERAGE**	**1,382**	**3,599**	**5,846**	**16,322**	**8.5**	**22.0**	**35.8**
1976	**AVERAGE**	**2,423**	**5,063**	**7,090**	**17,461**	**13.9**	**29.0**	**40.6**
1977	**AVERAGE**	**3,184**	**6,190**	**8,565**	**18,431**	**17.3**	**33.6**	**46.5**
1978	**AVERAGE**	**2,962**	**5,747**	**8,002**	**18,847**	**15.7**	**30.5**	**42.5**
1979	**AVERAGE**	**3,054**	**5,633**	**7,985**	**18,513**	**16.5**	**30.4**	**43.1**
1980	**AVERAGE**	**2,549**	**4,293**	**6,365**	**17,056**	**14.9**	**25.2**	**37.3**
1981	**AVERAGE**	**1,844**	**3,315**	**5,401**	**16,058**	**11.5**	**20.6**	**33.6**
1982	1st Quarter	1,105	2,391	4,038	15,892	7.0	15.1	25.4
	2nd Quarter	817	1,925	4,075	15,292	5.3	12.6	26.6
	3rd Quarter	819	2,239	4,721	14,893	5.5	15.0	31.7
	4th Quarter	672	1,992	4,353	15,119	4.4	13.2	28.8
	AVERAGE	**852**	**2,136**	**4,298**	**15,296**	**5.6**	**14.0**	**28.1**
1983	1st Quarter	351	1,174	3,079	15,026	2.3	7.8	20.5
	2nd Quarter	444	1,708	4,237	14,825	3.0	11.5	28.6
	3rd Quarter	860	2,501	5,370	15,333	5.6	16.3	35.0
	4th Quarter	857	1,972	4,536	15,732	5.4	12.5	28.8
	AVERAGE	**630**	**1,843**	**4,312**	**15,231**	**4.1**	**12.1**	**28.3**
1984	1st Quarter	754	1,855	4,741	16,058	4.7	11.6	29.5
	2nd Quarter	891	2,227	4,755	15,579	5.7	14.3	30.5

U.S. Dependence on Petroleum Net Imports



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

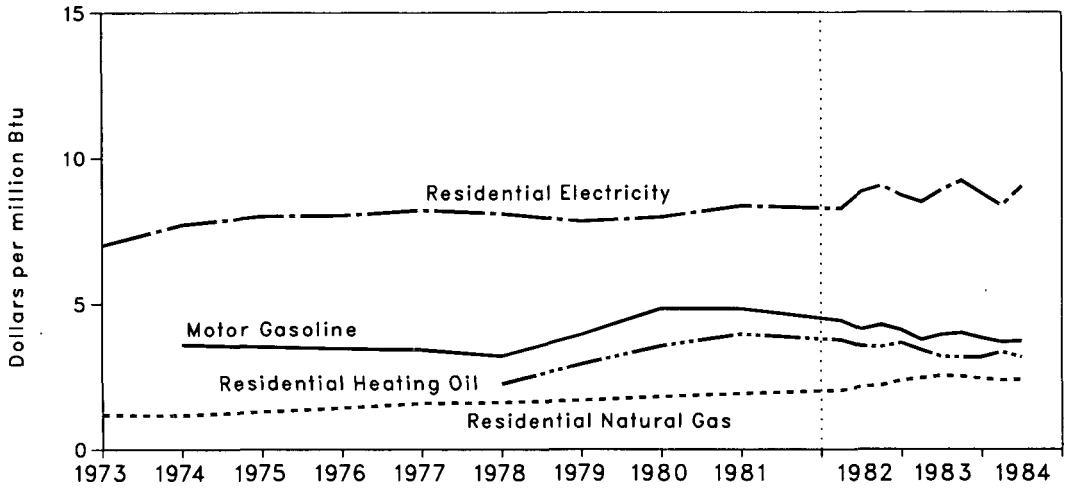
Executive Summary

Energy Indicator—Cost of Fuels to End Users in Constant (1972) Dollars[1]

		Leaded Regular Motor Gasoline		Residential Heating Oil		Residential Natural Gas		Residential Electricity	
		cent/gal	$/MMBtu	cent/gal	$/MMBtu	cent/Mcf	$/MMBtu	cent/kWh	$/MMBtu
1973	**AVERAGE**	**NA**	**NA**	**NA**	**NA**	**121.4**	**1.19**	**2.39**	**7.00**
1974	**AVERAGE**	**45.1**	**3.61**	**NA**	**NA**	**121.3**	**1.18**	**2.63**	**7.71**
1975	**AVERAGE**	**44.1**	**3.53**	**NA**	**NA**	**132.9**	**1.30**	**2.73**	**8.00**
1976	**AVERAGE**	**43.4**	**3.47**	**NA**	**NA**	**145.5**	**1.43**	**2.74**	**8.03**
1977	**AVERAGE**	**42.9**	**3.43**	**NA**	**NA**	**162.2**	**1.59**	**2.80**	**8.21**
1978	**AVERAGE**	**40.1**	**3.21**	**31.4**	**2.26**	**164.2**	**1.62**	**2.76**	**8.09**
1979	**AVERAGE**	**49.4**	**3.95**	**40.6**	**2.93**	**171.8**	**1.69**	**2.67**	**7.83**
1980	**AVERAGE**	**60.5**	**4.84**	**49.4**	**3.56**	**186.8**	**1.82**	**2.72**	**7.97**
1981	**AVERAGE**	**60.4**	**4.83**	**54.9**	**3.96**	**197.3**	**1.92**	**2.85**	**8.35**
1982	1st Quarter	55.3	4.42	52.2	3.76	208.5	2.03	2.82	8.26
	2nd Quarter	51.7	4.13	49.4	3.56	221.6	2.16	3.01	8.82
	3rd Quarter	53.5	4.28	48.9	3.53	226.4	2.21	3.08	9.03
	4th Quarter	51.3	4.10	50.7	3.66	243.0	2.37	2.97	8.70
	AVERAGE	**53.0**	**4.24**	**50.3**	**3.63**	**224.1**	**2.19**	**2.97**	**8.70**
1983	1st Quarter	47.1	3.77	47.3	3.41	251.3	2.45	2.89	8.47
	2nd Quarter	49.3	3.94	44.2	3.19	259.1	2.53	3.03	8.88
	3rd Quarter	50.0	4.00	43.9	3.17	257.7	2.51	3.14	9.20
	4th Quarter	47.9	3.83	43.9	3.17	249.7	2.43	2.99	8.76
	AVERAGE	**48.6**	**3.89**	**45.3**	**3.27**	**251.5**	**2.45**	**3.01**	**8.82**
1984	1st Quarter	46.1	3.69	46.4	3.35	244.1	2.38	2.85	8.35
	2nd Quarter	46.5	3.72	43.9	3.17	246.4	2.40	3.07	9.00

The Residential Heating Oil price series are new. Prices prior to 1983 are backcast estimates. See Note 8 in the Notes and Sources for the Price Section for additional information.

Average Cost of Fuels to End Users in Constant (1972) Dollars[1]



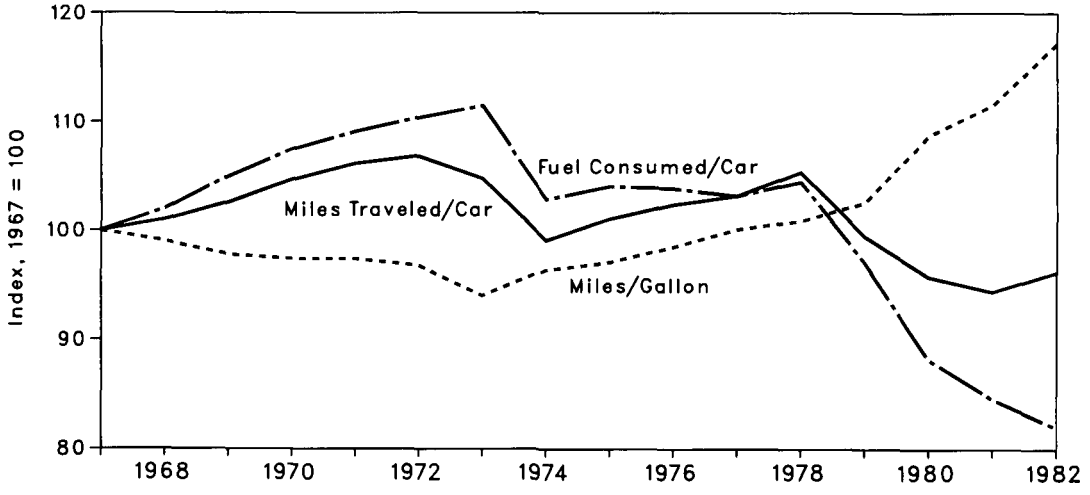
[1]Fuel costs shown on this page are calculated using the Urban Consumer Price Index developed by the Bureau of Labor Statistics. See the Conversion Factors section of this report.
NA=Not available.
Note: • Geographic coverage is the 50 States and the District of Columbia.
• Annual averages may not equal average of quarters due to independent rounding.
Sources: • See the last page of this section.

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
1980	603	88.2	9,135	95.8	15.15	108.8
1981	579	84.6	9,002	94.4	15.54	111.6
1982	561	82.0	9,167	96.2	16.33	117.2

U.S. Passenger Car Efficiency Index



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

Notes and Sources for the Executive Summary Section

Notes

1. **Energy Production:** Production of energy includes production of coal, crude oil and lease condensate, natural gas plant liquids, natural gas (dry), electric utility and industrial production of hydropower, and electricity generated from nuclear power, geothermal power, and wood, waste, and wind energy. The volumetric data are converted to approximate heat contents (Btu values) of these energy sources using the conversion factors provided in the Conversion Factors section of this publication.
2. **Energy Consumption:** Consumption of energy includes consumption of coal, natural gas (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, waste, and wind energy. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication.
3. **Energy Imports:** Energy imports include imports of coal, crude oil (including crude oil imported for the Strategic Petroleum Reserve), refined petroleum products, natural gas (dry), electricity produced from hydropower, and coke made from coal. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication. For further information on electricity, see the note and sources for imports and exports of electricity under Note 7 of the Notes and Sources for the Consumption Section.
4. **Energy Exports:** Energy exports include coal, crude oil, refined petroleum products, natural gas (dry), electricity produced from hydropower, and coke made from coal. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication. For further information on electricity, see the note and sources for imports and exports of electricity under Note 7 of the Notes and Sources for the Consumption Section.
5. **Merchandise Trade Value:** The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory (which includes the 50 United States, the District of Columbia, and Puerto Rico) and the Virgin Islands. The statistics exclude imports into Guam, American Samoa, and other U.S. possessions, as well as shipments between the United States and Puerto Rico and the Virgin Islands, between the United States and other U.S. possessions, and between any of these outlying areas. From January 1981 forward, import data presented are on a customs value basis. All other values are on a free alongside ship (f.a.s.) basis. Monthly data are adjusted for seasonal and working-day variation, if present and identifiable; annual data are unadjusted, and annual totals may not equal sum of monthly totals. Statistics include nonmonetary gold. Statistics exclude Department of Defense Military Program Grant-Aid shipments. "All Other" and "Total" columns include foreign exports (i.e., reexports). The "Energy" columns include mineral fuels, lubricants, and related material. "Imports" represent general imports (i.e., entries for immediate consumption, entries into customs bonded warehouses, and entries for the Strategic Petroleum Reserve). "Trade Balance" is exports minus imports; a positive balance indicates a surplus trade value and a negative balance indicates a deficit trade value. The "All Other" columns are calculated by subtracting "Energy" from "Total."
6. **Degree-Days:** Degree-days are relative measurements of outdoor air temperature. Cooling degree-days are defined as deviations of the mean daily temperature at a sampling station above a base temperature equal to 65° F. by convention. Heating degree-days are deviations of the mean daily temperature below 65° F. For example, if a weather station recorded a mean daily temperature of 78° F., cooling degree-days for that station would be 13 (and heating degree-days, 0). A weather station recording a mean daily temperature of 40° F. would report 25 heating degree-days (and 0 cooling degree-days).

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

Sources

Merchandise Trade Value: • 1974 through 1980: U.S. Department of Commerce, Bureau of the Census, "Highlights of U.S. Export and Import Trade," FT990 (January 1982), Appendix for total imports and exports. Energy imports and exports from U.S. Department of Commerce, Bureau of the Census, "Summary of U.S. Export and Import Merchandise Trade," December issues, plus Bureau of the Census reports EA691 "Exports from the Virgin Islands to Foreign Countries," and IA245V "U.S. Imports for Consumption and General Imports into the Virgin Islands."
• 1981 forward: U.S. Department of Commerce, Bureau of the Census, "Summary of U.S. Export and Import Merchandise Trade," most recent monthly issue.
Gross National Product: • U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business.*
U.S. Dependence on Petroleum Net Imports: • Imports and products supplied—Part 3 of this publication.
• Exports—1973 through 1976: Bureau of Mines, *Mineral Industry Surveys*; 1977 through 1982: Energy Information Administration (EIA), *Energy Data Reports*, "Petroleum Statement, Annual"; 1983 forward: EIA, *Petroleum Statement, Monthly.*
Cost of Fuels to End Users in Constant (1972) Dollars: • Leaded Regular Motor Gasoline—Bureau of Labor Statistics.
• Residential Heating Oil—Energy Information Administration (EIA), 1983 forward, EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA Form-782B, "Resellers/Retailers' Monthly Petroleum Product Sales Report." Prices prior to 1983 are EIA backcasted estimates using data from FEA Form P112-M1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" and EIA Form 9-A, "No. 2 Distillate Price Monitoring Report." See Note 8 in the Notes and Sources for the Price Section for additional information.
• Residential Natural Gas—Annual data 1973 through 1982 from EIA, *Natural Gas Annual*, based on Form EIA-176, 'Supply and Distribution of Natural Gas,' and predecessors. Annual 1983 and quarterly data are EIA estimates based on the Bureau of Labor Statistics Urban Consumer Price Index for natural gas and are adjusted to conform with final reported annual data. See Note 6 in the Notes and Sources for the Price Section for estimation procedures.
• Residential Electricity—Federal Energy Regulatory Commission (FERC), 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: FERC Form 5, "Electric Utility Company Monthly Statement."
• Deflator (The Urban Consumer Price Index)—Bureau of Labor Statistics.
U.S. Passenger Car Efficiency: • Indexes prepared from statistics published by the U.S. Department of Transportation, Federal Highway Administration, Federal Highway Statistics Division, "Highway Statistics," Table VM-1.

Energy Consumption

Total U.S. energy consumption in June 1984 was 5.7 quadrillion Btu, 6.3 percent above the June 1983 level. Petroleum accounted for 44.4 percent of the energy consumed in June 1984, while coal accounted for 24.7 percent and natural gas accounted for 20.0 percent.

The transportation sector used 63.7 percent of petroleum consumed and the industrial sector used 25.7 percent. Of total dry natural gas consumed, the industrial sector used 46.3 percent, electric utilities used 26.9 percent, and the residential and commercial sector used 23.7 percent. Most of the coal used in June 1984 (84.8 percent) was consumed by electric utilities. The residential and commercial sector used 61.2 percent of total electricity sales, while the industrial sector used 38.6 percent.

Residential and commercial sector consumption was 1.8 quadrillion Btu in June 1984, up 6.1 percent from the June 1983 level. This sector consumed 31.5 percent of the June 1984 total, about the same as its 31.6-percent share in June 1983.

Industrial sector consumption was 2.3 quadrillion Btu in June 1984, up 10.3 percent from the June 1983 level. The industrial sector accounted for 39.5 percent of the June 1984 total consumption, up from the industrial sector's 38.1-percent share of June 1983 total consumption.

Transportation sector consumption was 1.7 quadrillion Btu in June 1984, up 1.8 percent from the June 1983 level. This sector consumed 29.0 percent of the June 1984 total, down from the sector's 30.3-percent share in June 1983.

The electric utilities consumption was an estimated 2.3 quadrillion Btu of energy in June 1984, 9.2 percent higher than in June 1983. Coal contributed 53.4 percent of the energy consumed by electric utilities in June 1984, while hydroelectric contributed 14.7 percent; natural gas, 13.7 percent; nuclear, 12.3 percent; petroleum, 5.4 percent; and geothermal, wood, waste, and wind, 0.6 percent.

Energy Consumption Summary for June 1984

(Quadrillion (10^{15}) Btu)

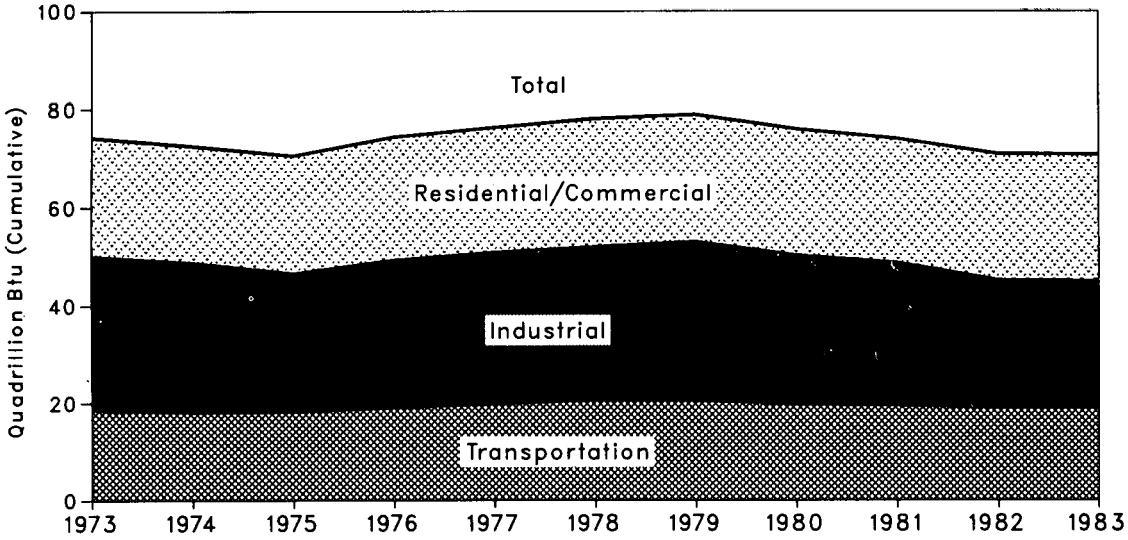
Energy Source	Sector				
	Residential and Commercial	Industrial	Transportation	Electric Utilities	Total
Coal	0.007	0.209	0.000	1.204	1.419
Natural Gas (dry)	0.272	0.532	0.038	0.309	1.150
Petroleum Products	0.147	0.655	1.623	0.121	2.546
Hydroelectric	0.000	0.003	0.000	0.331	0.334
Nuclear	0.000	0.000	0.000	0.277	0.277
Net Imports of Coal Coke	0.000	(0.003)	0.000	0.000	(0.003)
Other[1]	0.000	0.000	0.000	0.013	0.013
Primary Consumption	**0.426**	**1.397**	**1.661**	**2.255**	**5.736**
Electricity Sales	0.395	0.249	0.001	(0.645)	
Net Energy Consumption	0.821	1.646	1.661		4.126
Electrical Energy Losses	0.986	0.622	0.002	(1.610)	1.610
Total Energy Consumed	**1.808**	**2.268**	**1.664**		**5.736**

[1] Includes only geothermal power and electricity produced from wood, waste, and wind energy.
Notes: • Totals may not equal sum of components due to independent rounding and the use of preliminary conversion factors.
• Additional notes and sources for this table and all other tables in this section are provided on the last four pages of this section.

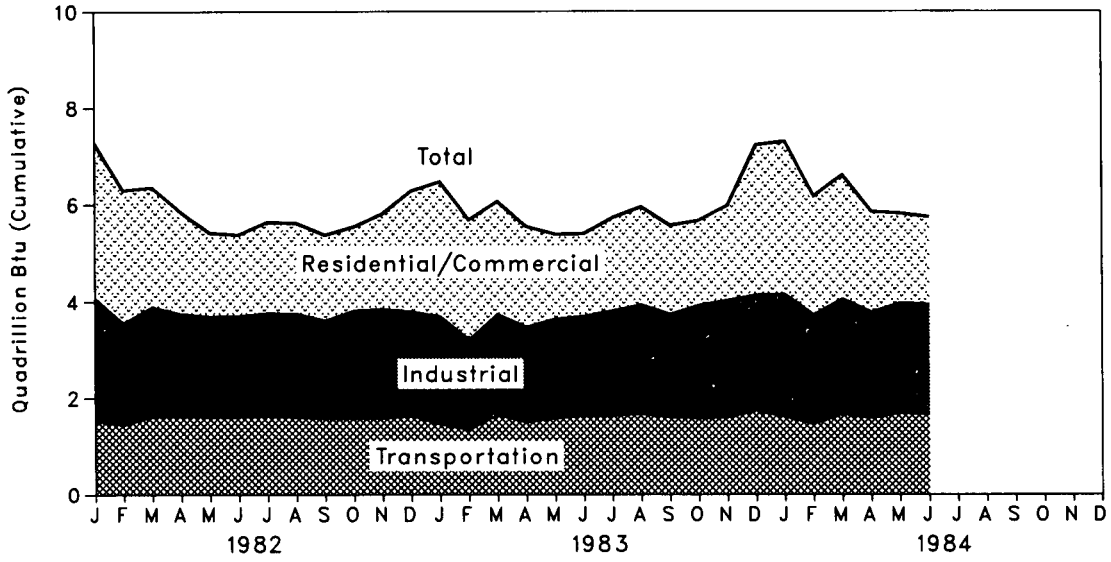
Consumption

Consumption of Energy by End-Use Sector

Yearly



Monthly



Consumption

Consumption of Energy by End-Use Sector

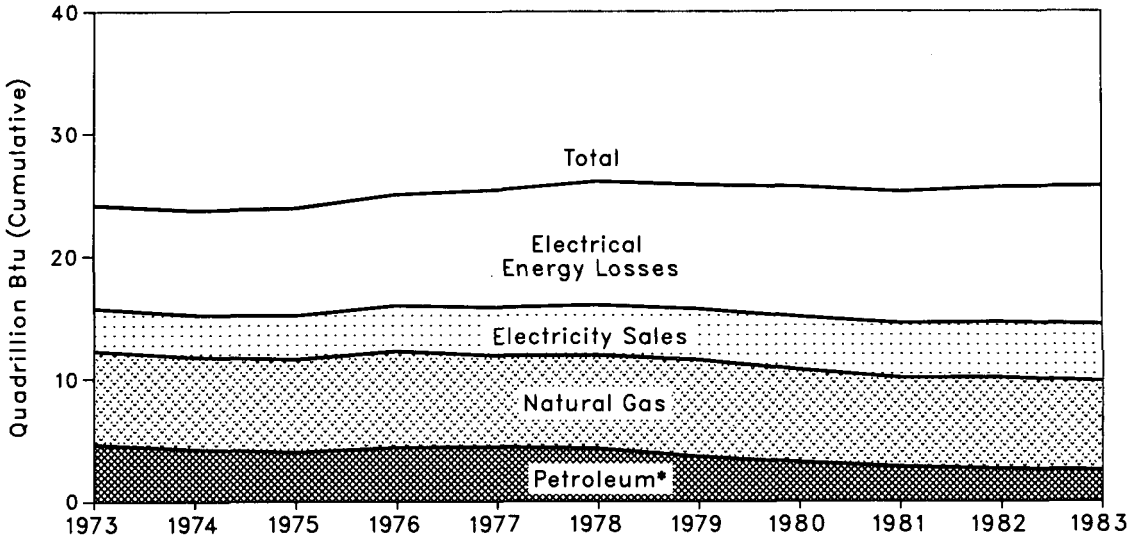
		Residential and Commercial	Industrial	Transportation	Total Energy Consumed
			Quadrillion (10^{15}) Btu		
1973	**TOTAL**	**24.147**	**31.463**	**18.596**	**74.212**
1974	**TOTAL**	**23.729**	**30.630**	**18.113**	**72.479**
1975	**TOTAL**	**23.902**	**28.343**	**18.240**	**70.485**
1976	**TOTAL**	**25.020**	**30.177**	**19.093**	**74.297**
1977	**TOTAL**	**25.375**	**31.021**	**19.808**	**76.215**
1978	**TOTAL**	**26.084**	**31.363**	**20.589**	**78.039**
1979	**TOTAL**	**25.810**	**32.567**	**20.464**	**78.845**
1980	**TOTAL**	**25.654**	**30.549**	**19.693**	**75.900**
1981	**TOTAL**	**25.246**	**29.208**	**19.495**	**73.940**
1982	January	3.193	2.533	1.536	7.262
	February	2.749	2.097	1.449	6.292
	March	2.471	2.265	1.620	6.353
	April	2.110	2.119	1.621	5.847
	May	1.723	2.075	1.613	5.409
	June	1.673	2.087	1.611	5.371
	July	1.877	2.121	1.640	5.641
	August	1.866	2.142	1.607	5.618
	September	1.763	2.028	1.576	5.369
	October	1.736	2.228	1.577	5.542
	November	1.970	2.260	1.582	5.815
	December	2.498	2.152	1.634	6.289
	TOTAL	**25.629**	**26.105**	**19.066**	**70.807**
1983	January	2.779	2.226	1.466	6.473
	February	2.488	1.841	1.355	5.684
	March	2.326	2.077	1.657	6.062
	April	2.081	1.964	1.500	5.542
	May	1.747	2.051	1.586	5.382
	June	1.704	2.056	1.634	5.396
	July	1.928	2.163	1.639	5.733
	August	2.022	2.249	1.676	5.951
	September	1.839	2.126	1.603	5.569
	October	1.756	2.329	1.587	5.671
	November	1.958	2.423	1.597	5.976
	December	3.095	2.388	1.739	7.223
	TOTAL	**25.725**	**25.892**	**19.040**	**70.664**
1984	January	3.155	2.532	1.611	7.298
	February	2.453	2.250	1.466	6.168
	March	2.560	2.380	1.667	6.605
	April	2.079	R2.186	1.586	R5.848
	May	1.849	R2.274	R1.690	R5.810
	June	1.808	2.268	1.664	5.736

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

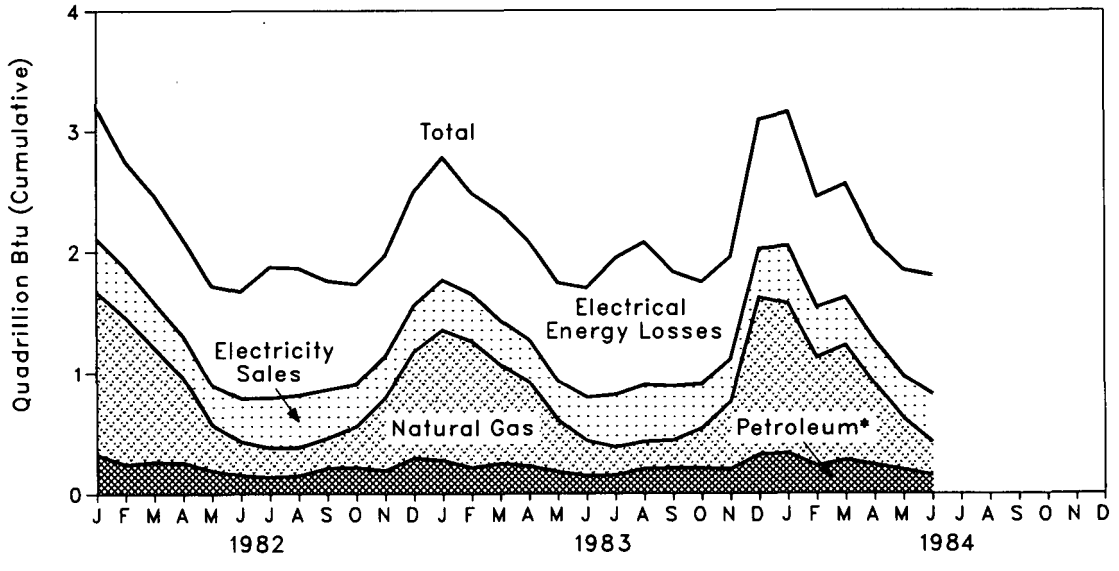
Consumption

Consumption of Energy by the Residential and Commercial Sector

Yearly



Monthly



*Includes very small quantities of coal.

Consumption

Consumption of Energy by the Residential and Commercial Sector

		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Quadrillion (10^{15}) Btu			
1973	**TOTAL**	**0.259**	**7.626**	**4.391**	**3.495**	**8.377**	**24.147**	
1974	**TOTAL**	**0.260**	**7.518**	**3.996**	**3.475**	**8.480**	**23.729**	
1975	**TOTAL**	**0.212**	**7.581**	**3.805**	**3.604**	**8.700**	**23.902**	
1976	**TOTAL**	**0.206**	**7.866**	**4.181**	**3.747**	**9.020**	**25.020**	
1977	**TOTAL**	**0.207**	**7.461**	**4.206**	**3.955**	**9.545**	**25.375**	
1978	**TOTAL**	**0.215**	**7.624**	**4.070**	**4.116**	**10.060**	**26.084**	
1979	**TOTAL**	**0.188**	**7.891**	**3.448**	**4.184**	**10.100**	**25.810**	
1980	**TOTAL**	**0.147**	**7.539**	**3.035**	**4.355**	**10.578**	**25.654**	
1981	**TOTAL**	**0.171**	**7.249**	**2.634**	**4.497**	**10.696**	**25.246**	
1982	January	0.023	1.344	0.303	0.440	1.084	3.193	3.193
	February	0.016	1.222	0.228	0.409	0.874	2.749	5.942
	March	0.013	0.948	0.252	0.373	0.886	2.471	8.413
	April	0.016	0.706	0.243	0.346	0.798	2.110	10.523
	May	0.011	0.382	0.181	0.327	0.822	1.723	12.245
	June	0.008	0.279	0.144	0.358	0.885	1.673	13.919
	July	0.014	0.245	0.121	0.412	1.084	1.877	15.796
	August	0.015	0.234	0.134	0.431	1.053	1.866	17.662
	September	0.015	0.247	0.197	0.403	0.902	1.763	19.426
	October	0.015	0.343	0.201	0.349	0.827	1.736	21.161
	November	0.019	0.605	0.172	0.340	0.834	1.970	23.131
	December	0.023	0.878	0.274	0.381	0.942	2.498	25.629
	TOTAL	**0.189**	**7.433**	**2.449**	**4.566**	**10.991**	**25.629**	
1983	January	0.020	1.081	0.257	0.413	1.007	2.779	2.779
	February	0.018	1.049	0.198	0.390	0.834	2.488	5.266
	March	0.013	0.821	0.239	0.365	0.889	2.326	7.593
	April	0.017	0.698	0.210	0.352	0.805	2.081	9.674
	May	0.011	0.427	0.169	0.327	0.813	1.747	11.421
	June	0.008	0.290	0.140	0.359	0.907	1.704	13.126
	July	0.014	0.233	0.120	0.435	1.127	1.928	15.054
	August	0.013	0.224	0.138	0.472	1.176	2.022	17.076
	September	0.017	0.233	0.194	0.451	0.944	1.839	18.916
	October	0.018	0.333	0.193	0.367	0.845	1.756	20.672
	November	0.019	0.559	0.185	0.350	0.844	1.958	22.630
	December	0.025	1.296	0.302	0.402	1.069	3.095	25.725
	TOTAL	**0.192**	**7.244**	**2.345**	**4.683**	**11.261**	**25.725**	
1984	January	0.024	1.240	0.309	0.476	1.105	3.155	3.155
	February	0.021	0.894	0.210	0.416	0.912	2.453	5.608
	March	0.015	0.947	0.265	0.395	0.938	2.560	8.168
	April	0.012	0.669	0.228	0.360	0.810	2.079	10.248
	May	0.011	0.424	0.187	0.355	0.873	1.849	12.097
	June	0.007	0.272	0.147	0.395	0.986	1.808	13.905

R = Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
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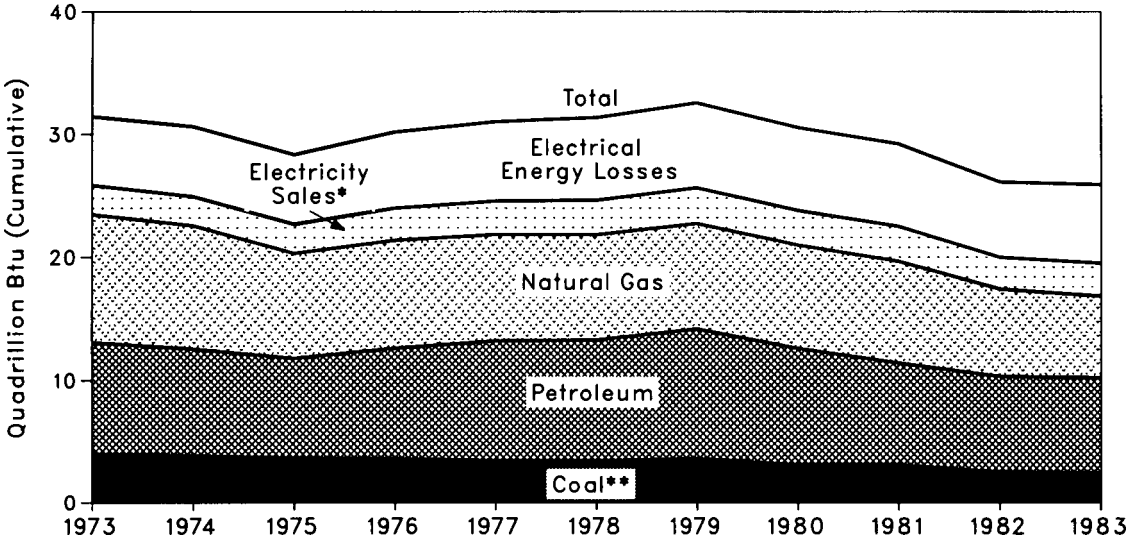
Additional Notes and Sources: • See the last four pages of this section.

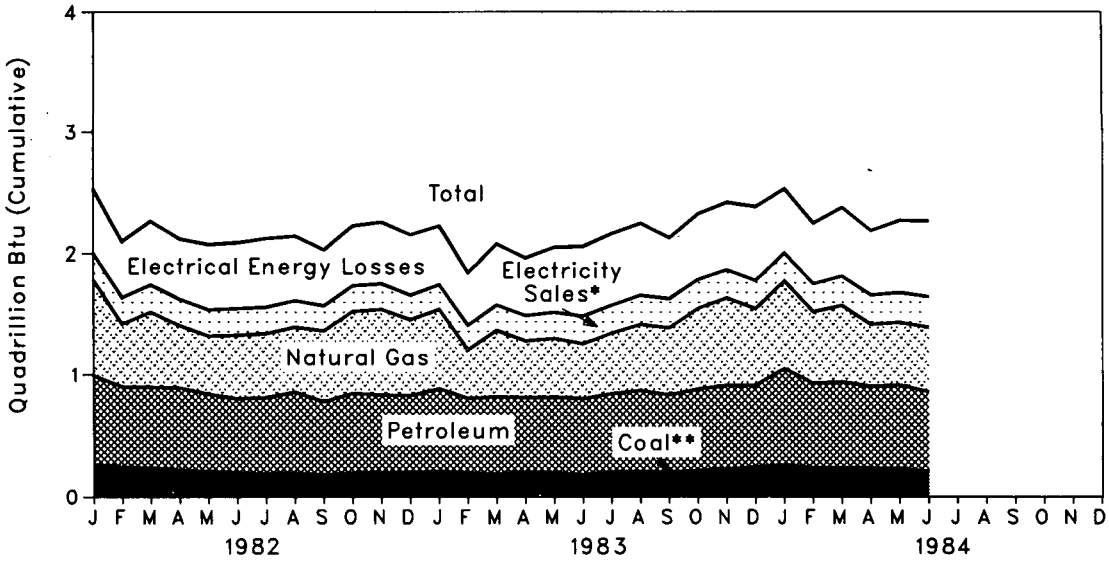
Consumption

Consumption of Energy by the Industrial Sector

Yearly



Monthly



*Includes hydroelectric.
**Includes net coke imports.

Consumption

Consumption of Energy by the Industrial Sector

		Coal	Natural Gas (Dry)	Petro-leum	Hydro-electric	Net Coke Imports	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
						Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**3.984**	**10.388**	**9.113**	**0.035**	**(0.008)**	**2.341**	**5.610**	**31.463**	
1974	**TOTAL**	**3.800**	**10.003**	**8.698**	**0.033**	**0.059**	**2.337**	**5.700**	**30.630**	
1975	**TOTAL**	**3.602**	**8.532**	**8.151**	**0.032**	**0.014**	**2.346**	**5.665**	**28.343**	
1976	**TOTAL**	**3.595**	**8.761**	**9.018**	**0.033**	**0.000**	**2.573**	**6.197**	**30.177**	
1977	**TOTAL**	**3.394**	**8.636**	**9.786**	**0.033**	**0.015**	**2.682**	**6.476**	**31.021**	
1978	**TOTAL**	**3.258**	**8.539**	**9.890**	**0.032**	**0.131**	**2.761**	**6.755**	**31.363**	
1979	**TOTAL**	**3.532**	**8.549**	**10.576**	**0.034**	**0.066**	**2.873**	**6.937**	**32.567**	
1980	**TOTAL**	**3.103**	**8.394**	**9.524**	**0.033**	**(0.037)**	**2.781**	**6.751**	**30.549**	
1981	**TOTAL**	**3.109**	**8.265**	**8.295**	**0.033**	**(0.017)**	**2.817**	**6.704**	**29.208**	
1982	January	0.262	0.793	0.731	0.003	0.000	0.215	0.530	2.533	2.533
	February	0.245	0.520	0.658	0.003	(0.001)	0.214	0.458	2.097	4.630
	March	0.236	0.622	0.663	0.003	(0.002)	0.220	0.523	2.265	6.895
	April	0.218	0.515	0.676	0.003	(0.001)	0.214	0.493	2.119	9.014
	May	0.211	0.480	0.634	0.003	(0.003)	0.213	0.536	2.075	11.089
	June	0.197	0.524	0.612	0.003	(0.004)	0.217	0.538	2.087	13.176
	July	0.191	0.529	0.625	0.003	(0.003)	0.214	0.563	2.121	15.296
	August	0.192	0.537	0.667	0.002	(0.001)	0.216	0.528	2.142	17.438
	September	0.184	0.583	0.600	0.002	(0.003)	0.205	0.458	2.028	19.466
	October	0.192	0.678	0.657	0.002	(0.001)	0.208	0.492	2.228	21.694
	November	0.195	0.708	0.641	0.002	(0.002)	0.207	0.508	2.260	23.953
	December	0.197	0.626	0.635	0.002	(0.001)	0.199	0.494	2.152	26.105
	TOTAL	**2.520**	**7.116**	**7.798**	**0.033**	**(0.023)**	**2.542**	**6.120**	**26.105**	
1983	January	0.208	0.658	0.678	0.003	(0.001)	0.198	0.482	2.226	2.226
	February	0.194	0.400	0.613	0.003	(0.001)	0.201	0.431	1.841	4.067
	March	0.185	0.549	0.635	0.003	(0.001)	0.206	0.500	2.077	6.144
	April	0.202	0.466	0.615	0.003	(0.002)	0.207	0.473	1.964	8.107
	May	0.196	0.485	0.622	0.003	(0.002)	0.214	0.532	2.051	10.158
	June	0.180	0.452	0.626	0.003	(0.001)	0.226	0.570	2.056	12.214
	July	0.203	0.502	0.643	0.003	(0.002)	0.227	0.587	2.163	14.377
	August	0.206	0.546	0.666	0.002	(0.001)	0.238	0.592	2.249	16.626
	September	0.200	0.554	0.636	0.002	(0.001)	0.238	0.498	2.126	18.752
	October	0.214	0.668	0.669	0.002	(0.001)	0.235	0.541	2.329	21.081
	November	0.224	0.723	0.689	0.002	(0.001)	0.230	0.555	2.423	23.504
	December	0.246	0.635	0.669	0.002	(0.003)	0.229	0.609	2.388	25.892
	TOTAL	**2.458**	**6.638**	**7.759**	**0.033**	**(0.016)**	**2.648**	**6.372**	**25.892**	
1984	January	0.256	0.722	0.794	0.003	0.001	0.228	0.528	2.532	2.532
	February	0.236	0.594	0.690	0.003	0.002	0.227	0.498	2.250	4.781
	March	0.238	0.633	0.704	0.003	(0.001)	0.238	0.566	2.380	7.161
	April	0.234	R0.516	0.669	0.003	0.000	0.236	0.529	R2.186	R9.348
	May	0.228	R0.520	0.688	0.003	(0.001)	0.241	0.594	R2.274	R11.622
	June	0.209	0.532	0.655	0.003	(0.003)	0.249	0.622	2.268	13.889

R=Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
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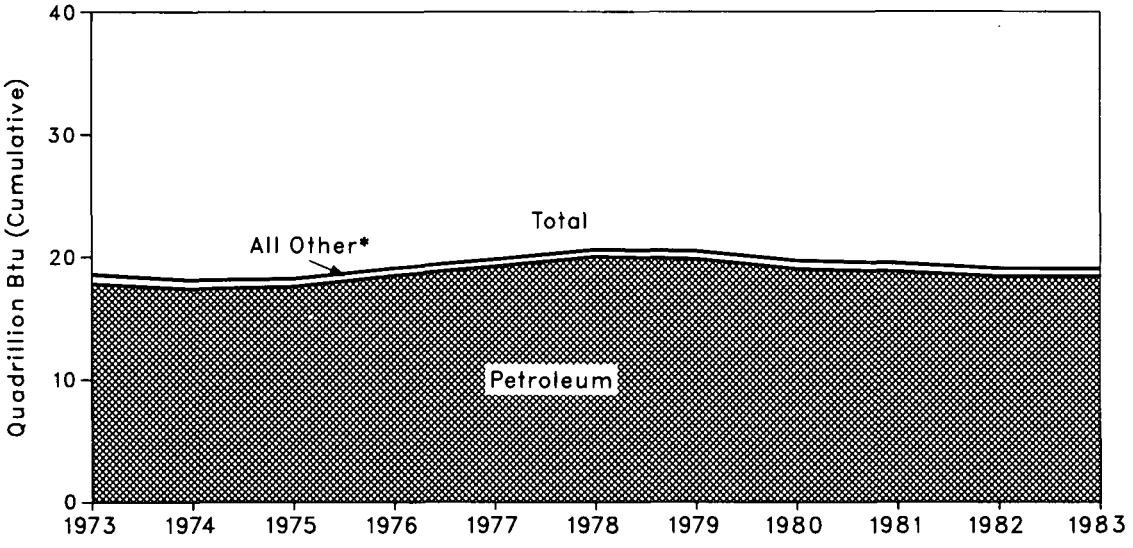
Additional Notes and Sources: • See the last four pages of this section.

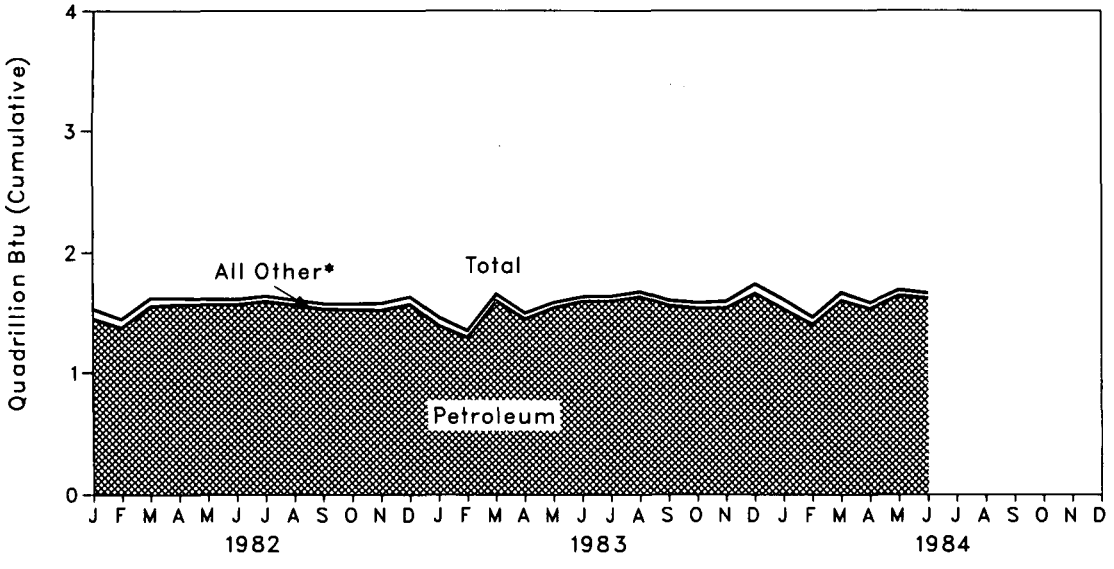
Consumption

Consumption of Energy by the Transportation Sector

Yearly



Monthly



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

Consumption

Consumption of Energy by the Transportation Sector

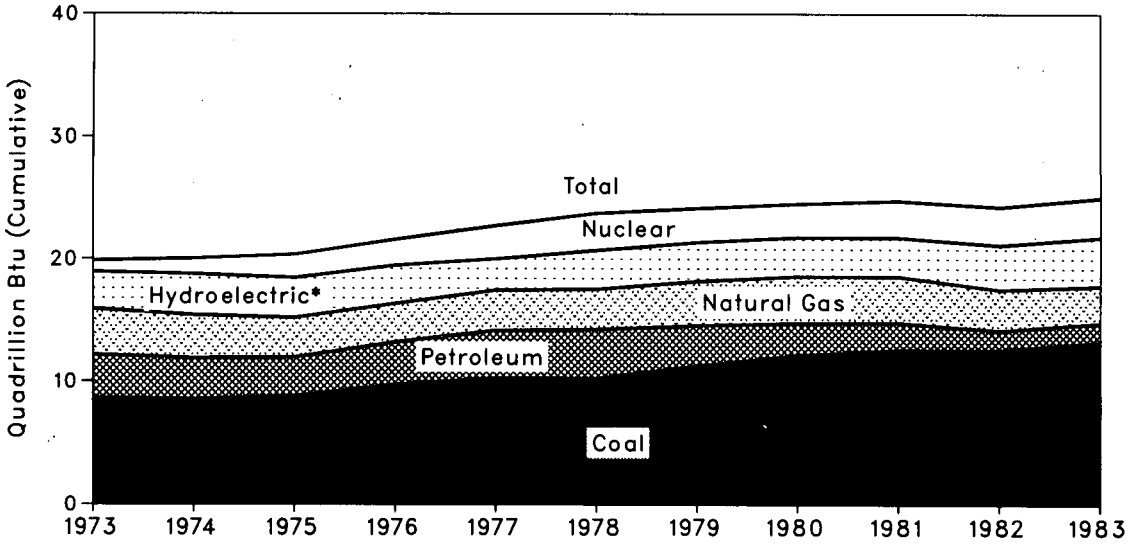
		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
				Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**0.003**	**0.743**	**17.821**	**0.009**	**0.020**	**18.596**	
1974	**TOTAL**	**0.002**	**0.685**	**17.396**	**0.009**	**0.022**	**18.113**	
1975	**TOTAL**	**0.001**	**0.595**	**17.610**	**0.010**	**0.025**	**18.240**	
1976	**TOTAL**	**(1)**	**0.559**	**18.499**	**0.010**	**0.025**	**19.093**	
1977	**TOTAL**	**(1)**	**0.543**	**19.230**	**0.010**	**0.025**	**19.808**	
1978	**TOTAL**	**(1)**	**0.539**	**20.019**	**0.009**	**0.022**	**20.589**	
1979	**TOTAL**	**(1)**	**0.612**	**19.817**	**0.010**	**0.025**	**20.464**	
1980	**TOTAL**	**(1)**	**0.648**	**19.009**	**0.011**	**0.026**	**19.693**	
1981	**TOTAL**	**(1)**	**0.658**	**18.800**	**0.011**	**0.026**	**19.495**	
1982	January	(1)	0.081	1.452	0.001	0.002	1.536	1.536
	February	(1)	0.068	1.378	0.001	0.002	1.449	2.985
	March	(1)	0.063	1.554	0.001	0.002	1.620	4.605
	April	(1)	0.050	1.568	0.001	0.002	1.621	6.226
	May	(1)	0.039	1.571	0.001	0.002	1.613	7.840
	June	(1)	0.038	1.570	0.001	0.002	1.611	9.451
	July	(1)	0.039	1.597	0.001	0.002	1.640	11.090
	August	(1)	0.039	1.565	0.001	0.002	1.607	12.698
	September	(1)	0.039	1.534	0.001	0.002	1.576	14.274
	October	(1)	0.044	1.529	0.001	0.002	1.577	15.850
	November	(1)	0.053	1.525	0.001	0.002	1.582	17.432
	December	(1)	0.060	1.571	0.001	0.002	1.634	19.066
	TOTAL	**(1)**	**0.613**	**18.417**	**0.011**	**0.026**	**19.066**	
1983	January	(1)	0.067	1.396	0.001	0.002	1.466	1.466
	February	(1)	0.055	1.296	0.001	0.002	1.355	2.820
	March	(1)	0.054	1.600	0.001	0.002	1.657	4.478
	April	(1)	0.047	1.450	0.001	0.002	1.500	5.977
	May	(1)	0.039	1.544	0.001	0.002	1.586	7.563
	June	(1)	0.034	1.597	0.001	0.002	1.634	9.197
	July	(1)	0.036	1.600	0.001	0.002	1.639	10.837
	August	(1)	0.039	1.634	0.001	0.002	1.676	12.513
	September	(1)	0.037	1.564	0.001	0.002	1.603	14.116
	October	(1)	0.043	1.541	0.001	0.002	1.587	15.703
	November	(1)	0.051	1.543	0.001	0.002	1.597	17.300
	December	(1)	0.074	1.662	0.001	0.002	1.739	19.040
	TOTAL	**(1)**	**0.577**	**18.428**	**0.010**	**0.024**	**19.040**	
1984	January	(1)	0.075	1.533	0.001	0.002	1.611	1.611
	February	(1)	0.057	1.406	0.001	0.002	1.466	3.078
	March	(1)	0.062	1.602	0.001	0.002	1.667	4.744
	April	(1)	0.048	1.535	0.001	0.002	1.586	6.331
	May	(1)	R0.042	1.646	0.001	0.002	R1.690	R8.021
	June	(1)	0.038	1.623	0.001	0.002	1.664	9.685

[1]Since 1976, the amount of coal consumed by the transportation sector has been negligible.
R=Revised data.
Notes: • *Geographic coverage is the 50 States and the District of Columbia.*
• Totals may not equal sum of components due to independent rounding.
Additional Notes and Sources: • See the last four pages of this section.

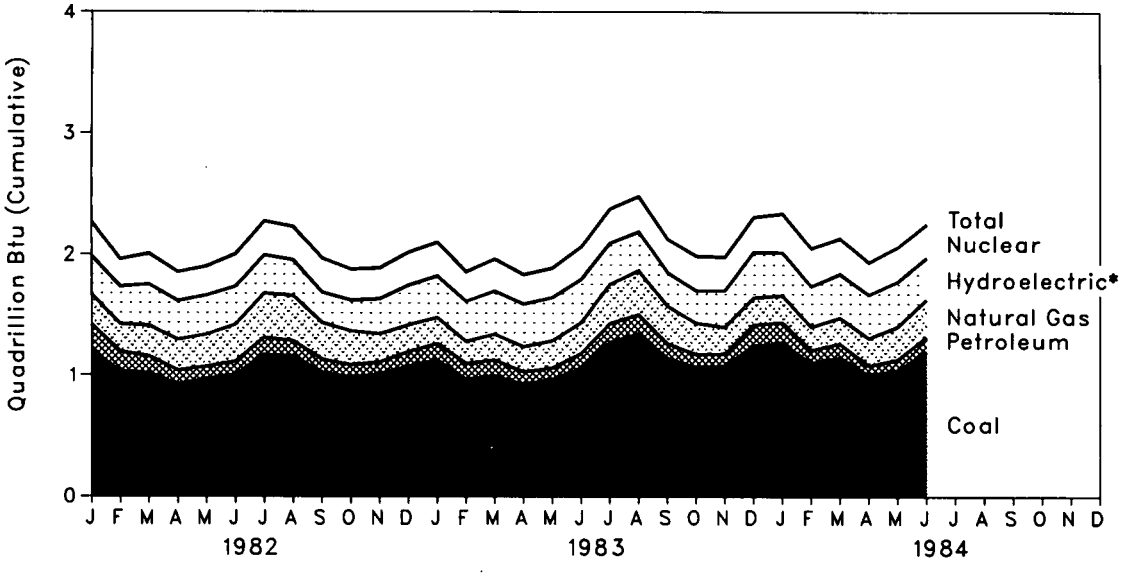
Consumption

Energy Input at Electric Utilities

Yearly



Monthly



*Includes geothermal power and electricity produced from wood, waste, and wind energy.

Consumption

Energy Input at Electric Utilities

		Coal	Natural Gas (Dry)	Petroleum[1]	Hydroelectric Power[2]	Nuclear Electric Power	Other[3]	Total Energy Input	Yearly Cumulative Energy Input
					Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**8.658**	**3.748**	**3.515**	**2.975**	**0.910**	**0.046**	**19.852**	
1974	**TOTAL**	**8.535**	**3.519**	**3.365**	**3.276**	**1.272**	**0.056**	**20.023**	
1975	**TOTAL**	**8.786**	**3.240**	**3.166**	**3.187**	**1.900**	**0.072**	**20.350**	
1976	**TOTAL**	**9.720**	**3.152**	**3.477**	**3.032**	**2.111**	**0.081**	**21.573**	
1977	**TOTAL**	**10.243**	**3.284**	**3.901**	**2.482**	**2.702**	**0.082**	**22.694**	
1978	**TOTAL**	**10.236**	**3.297**	**3.987**	**3.110**	**3.024**	**0.068**	**23.722**	
1979	**TOTAL**	**11.264**	**3.609**	**3.283**	**3.107**	**2.776**	**0.089**	**24.129**	
1980	**TOTAL**	**12.122**	**3.807**	**2.634**	**3.085**	**2.739**	**0.114**	**24.501**	
1981	**TOTAL**	**12.583**	**3.760**	**2.202**	**3.072**	**3.008**	**0.127**	**24.752**	
1982	January	1.204	0.246	0.221	0.308	0.283	0.009	2.271	2.271
	February	1.036	0.228	0.162	0.303	0.222	0.008	1.958	4.230
	March	1.015	0.255	0.144	0.333	0.251	0.007	2.004	6.234
	April	0.922	0.255	0.120	0.312	0.240	0.007	1.855	8.089
	May	0.967	0.267	0.106	0.315	0.238	0.008	1.902	9.991
	June	1.005	0.306	0.111	0.304	0.265	0.010	2.000	11.991
	July	1.171	0.365	0.144	0.305	0.281	0.010	2.276	14.266
	August	1.162	0.374	0.125	0.284	0.275	0.010	2.230	16.497
	September	1.026	0.303	0.110	0.241	0.280	0.010	1.970	18.467
	October	0.982	0.283	0.106	0.242	0.256	0.011	1.879	20.346
	November	1.013	0.234	0.100	0.277	0.256	0.011	1.891	22.237
	December	1.079	0.222	0.120	0.320	0.269	0.009	2.018	24.256
	TOTAL	**12.582**	**3.338**	**1.568**	**3.544**	**3.115**	**0.108**	**24.256**	
1983	January	1.129	0.215	0.137	0.335	0.276	0.011	2.103	2.103
	February	0.968	0.183	0.134	0.322	0.245	0.008	1.859	3.962
	March	*0.997*	*0.215*	*0.133*	*0.346*	*0.263*	*0.010*	*1.963*	*5.925*
	April	0.922	0.210	0.110	0.342	0.246	0.009	1.838	7.764
	May	0.967	0.226	0.097	0.350	0.243	0.007	1.889	9.653
	June	1.065	0.256	0.119	0.349	0.266	0.010	2.065	11.717
	July	1.278	0.325	0.156	0.326	0.282	0.012	2.379	14.096
	August	1.349	0.364	0.158	0.305	0.289	0.016	2.480	16.577
	September	1.147	0.309	0.123	0.265	0.275	0.014	2.133	18.710
	October	1.072	0.260	0.106	0.254	0.284	0.015	1.992	20.701
	November	1.083	0.222	0.099	0.291	0.275	0.013	1.983	22.685
	December	1.251	0.226	0.171	0.364	0.290	0.011	2.314	24.998
	TOTAL	**13.226**	**3.011**	**1.544**	**3.847**	**3.235**	**0.135**	**24.998**	
1984	January	1.274	0.223	0.169	0.342	0.321	0.011	2.340	2.340
	February	1.106	0.194	0.108	0.323	0.312	0.013	2.056	4.396
	March	1.154	0.213	0.115	0.349	0.293	0.015	2.139	6.535
	April	1.006	0.228	0.081	0.344	0.266	0.014	1.938	8.473
	May	1.047	0.274	0.090	0.358	0.283	0.014	2.066	10.539
	June	1.204	0.309	0.121	0.331	0.277	0.013	2.255	12.794

[1]Includes petroleum products reported as "oil consumed in steam plants" through 1979 and "heavy oil" from 1980 forward, which are assumed to be residual fuel oil; petroleum products reported as "oil consumed in gas turbine and internal combustion engine plants" through 1979 and "light oil" from 1980 forward, which are assumed to be distillate fuel oil and kerosene; and petroleum coke.
[2]Includes net imports of electricity.
[3]Includes only geothermal power and electricity produced from wood, waste, and wind energy.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Additional Notes and Sources: • See the last four pages of this section.

Notes and Sources for the Consumption Section

1. **Total Energy Consumed:** Total energy consumed includes coal (anthracite, bituminous coal, and lignite), natural gas (dry), refined petroleum products supplied, electric utility and industrial generation of electricity from hydropower, net imports of electricity generated from hydropower, and electricity generated from nuclear power, geothermal power, and wood, waste, and wind energy. Data do not include the consumption of wood-derived fuel other than that consumed by the electric utility industry. Also excluded are small quantities of energy forms for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; and geothermal, biomass, waste, and wind energy other than that consumed at electric utilities.

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

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

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

4. **Coal:** Coal is anthracite, bituminous coal, and lignite.

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

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

Sources:
- 1973 through 1975: DOI, BOM, *Minerals Yearbook,* "Natural Gas" chapter.
- 1976 through 1978: EIA, *Energy Data Reports,* "Natural Gas, Annual."
- 1979: EIA, *Natural Gas Production and Consumption 1979.*
- 1980 and 1982: EIA, *Natural Gas Annual.*
- 1983 forward: EIA, *Natural Gas Monthly.*
- Electric utilities consumption—1973 through 1976: FPC Form 4, "Monthly Power Plant Report."
  1977 through 1981: Federal Energy Regulatory Commission (FERC), FPC Form 4, "Monthly Power Plant Report."
  1982 forward: EIA, EIA Form 759, "Monthly Power Plant Report."
- American Gas Association, "Monthly Gas Utility Statistical Report."

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

Sources for petroleum products supplied by individual products are:
- 1973 through 1975: DOI, BOM, *Mineral Industry Surveys,* "Petroleum Statement, Annual."
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual."
- 1981 through 1983: EIA, *Petroleum Supply Annual.*
- 1984 forward: EIA, *Petroleum Supply Monthly.*

Specific petroleum products' end-use allocation procedures follow:

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

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

Notes and Sources for the Consumption Section (continued)

6. **Petroleum (continued):**
   - **Distillate Fuel**
     - — ***Electric Utility Sector, All Periods.***
       Monthly and annual consumption in 1973 through 1979 is assumed to be the amount of oil (minus small amounts of kerosene and kerosene-type jet fuel deliveries) reported as consumed in internal combustion and gas turbine engine plants. From January 1980, electric utility consumption of distillate fuel is assumed to be the petroleum products reported as "light oil" (minus kerosene deliveries) consumed at utilities. Sources: 1973 through September 1977—FPC Form 4, "Monthly Power Plant Report;" October 1977 through 1981—FERC, FPC Form 4, "Monthly Power Plant Report;" 1982 forward—EIA, Form EIA-759, "Monthly Power Plant Report."
     - — ***Nonutility Sectors, Annual Estimates.***
       The aggregate nonutility use of distillate fuel is total distillate fuel supplied minus the electric utility consumption. The nonutility annual totals are allocated into the individual nonutility sectors in proportion to the amount of distillate fuel delivered to end users, grouped into sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports (based primarily on data collected by Form EIA-172) as follows:
       - Residential sector deliveries are taken directly from the "Deliveries" report for 1979 through 1982. Deliveries for 1982 are used as estimates for 1983. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;
       - Commercial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1982. Deliveries for 1982 are used as estimates for 1983. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;
       - Industrial sector deliveries for 1979 through 1982 are the sum of deliveries for industrial, farm, oil company, off-highway, diesel, and all other uses. Deliveries for 1982 are used as estimates for 1983. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares, and this estimated industrial portion is added to oil company, off-highway diesel, and all other uses; and
       - Transportation sector deliveries are the sum of deliveries for railroad, vessel bunkering, on-highway diesel, and military uses for all years. Deliveries for 1982 are used as estimates for 1983.
     - — ***Nonutility Sectors, Monthly Estimates Through 1982.***
       - Residential and commercial sector monthly consumption is estimated by allocating the annual sector estimates to months in proportion to each month's share of the year's sales of No. 2 heating oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation from 1973 through 1980 and the American Petroleum Institute since January 1981.
       - The transportation sector highway use portion is allocated into the months in proportion to each month's share of the year's total sales for highway use as reported by the Federal Highway Administration's Table MF-25, "Private and Commercial Highway Use of Special Fuels by Months." The remaining transportation use of distillate fuel (i.e., for railroads, vessel bunkering, and military use) is evenly distributed over the months, adjusted for the number of days per month.
       - Industrial sector monthly estimates are made by subtracting the residential and commercial, transportation, and electric utility sector estimates from each month's total distillate fuel supplied.
     - — ***Nonutility Sectors, 1983 Forward.***
       Each month's nonutility consumption subtotal is disaggregated into the major end-use sectors in proportion to the shares each sector held of the nonutility subtotal in the same month in 1982.

   - **Jet Fuel**—Small amounts of kerosene-type jet fuel in all periods are consumed by the electric utility sector. Kerosene-type jet fuel deliveries to electric utilities as reported on the FERC-423 (formerly FPC-423) are used as an estimate of this consumption. All remaining jet fuel (kerosene-type and naphtha-type) is consumed by the transportation sector.

   - **Kerosene**—Total product supplied monthly is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports (based primarily on data collected by Form EIA-172) as follows:
     - — Residential sector deliveries are taken directly from the "Deliveries" report for 1979 through 1982. Deliveries for 1982 are used as estimates for 1983 forward. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares;
     - — Commercial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1982. Deliveries for 1982 are used as estimates for 1983 forward. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares; and
     - — Industrial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1982. Deliveries for 1982 are used as estimates for 1983 forward. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares, and this estimated industrial (including farm) portion is added to "all other uses."

   - **Liquefied Petroleum Gases (LPG)**
     - — 1973 through 1982: the annual shares of LPG's total consumption that are estimated to be consumed by each end-use sector are applied to each month's total LPG consumption to create monthly end-use consumption estimates. The annual end-use shares are calculated in the following manner:
       - Sales of LPG to the residential and commercial sector are converted from thousand gallons per year to thousand barrels per year and are assumed to equal the annual consumption of LPG by the sector;
       - The quantity of LPG sold each year that is consumed in internal combustion engines is allocated between the transportation and industrial sectors according to a 5-year moving average of the percentage of carburetors sold to each end-use category. The proportions range from 31 percent transportation and 69 percent industrial in 1973 to 52 percent transportation and 48 percent industrial in 1982.

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

Notes and Sources for the Consumption Section (continued)

6. **Petroleum (continued):**
   - LPG consumed annually by the industrial sector is estimated as the difference between LPG's total supplied and the estimated consumption by the sum of the residential and commercial sector and the transportation sector. The industrial sector includes LPG used by chemical plants as raw materials or solvents and for use in the production of synthetic rubber; refinery fuel use; use as synthetic natural gas feedstock and use in secondary recovery projects; all farm use; LPG sold to gas utility companies for distribution through the mains; and a portion of the use of LPG as an internal combustion engine fuel.

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

   — 1983 forward: The 1982 annual end-use shares are applied for succeeding periods to estimate the amount of the total LPG supplied that is consumed by each major end-use sector.

- **Lubricants**—Total product supplied is allocated to the industrial and transportation sectors for all months according to proportions developed from annual sales of lubricants to those two sectors from U.S. Department of Commerce, Bureau of the Census, *Current Industrial Reports,* "Sales of Lubricating and Industrial Oils and Greases." The 1973 shares are applied to 1973 and 1974; the 1975 shares are applied to 1975 and 1976; and the 1977 shares are applied to 1977 forward.

- **Motor Gasoline**—Total product supplied monthly is allocated to the major end-use sectors in proportion to aggregations of annual sales categories formed from the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics,* Tables MF-21, MF-24, and MF-25, as follows:
  — Commercial sales are the sum of sales for public non-highway use, miscellaneous use, and unclassified use;
  — Industrial sales are the sum of sales for agriculture, construction, and industrial and commercial use as classified in the *Highway Statistics;* and
  — Transportation sales are the sum of sales for highway use (minus the sales of special fuels, which are primarily diesel fuel and are accounted for in the transportation sector of distillate fuel) and sales for marine use.

- **Petroleum Coke**—The portion consumed by the electric utility sector is from EIA Form 759, "Monthly Power Plant Report" (formerly FPC Form 4). The remaining portion is assigned to the industrial sector.

- **Residual Fuel**
  — ***Electric Utility Sector, All Periods.***
  Monthly and annual consumption 1973 through 1979 is assumed to be the amount of oil reported as consumed in steam electric plants. From January 1980, electric utility consumption of residual fuel is assumed to be the petroleum products reported as "heavy oil" consumed at utilities. Sources: 1973 through September 1977—FPC Form 4, "Monthly Power Plant Report;" October 1977 through 1981—FERC, FPC Form 4, "Monthly Power Plant Report;" 1982 forward—EIA, Form EIA-759, "Monthly Power Plant Report."
  — ***Nonutility Sectors, Annual Estimates.***
  The aggregate nonutility use of residual fuel is total residual fuel supplied minus the electric utility consumption. The nonutility annual totals are allocated into the individual nonutility sectors in proportion to the amount of residual fuel delivered to end users, grouped into sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports (based primarily on data collected by Form EIA-172) as follows:
    - Commercial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1982. Deliveries for 1982 are used as estimates for 1983. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into commercial and industrial in proportion to the 1979 shares;
    - Industrial sector deliveries for 1979 through 1982 are the sum of deliveries for industrial, oil company, and all other uses. Deliveries for 1982 are used as estimates for 1983. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into commercial and industrial in proportion to the 1979 shares; and this estimated industrial portion is added to oil company and all other uses; and
    - Transportation sector deliveries are the sum of deliveries for railroad, vessel bunkering, and military uses for all years. Deliveries for 1982 are used as estimates for 1983.
  — ***Nonutility Sectors, Monthly Estimates Through 1982.***
    - Commercial sector monthly consumption is estimated by allocating the annual commercial sector estimates to months in proportion to each month's share of the year's sales of No. 2 heating oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation for 1973 through 1980 and the American Petroleum Institute since January 1981.
    - Transportation sector monthly estimates are made by evenly distributing the annual sector estimate over the months, adjusted for the number of days per month.
    - Industrial sector monthly estimates are made by subtracting the commercial, transportation, and electric utility sector estimates from each month's total residual fuel supplied.
  — ***Nonutility Sectors, 1983 Forward.***
  Each month's nonutility consumption subtotal is disaggregated into the major end-use sectors in proportion to the shares each sector held of the nonutility subtotal in the same month in 1982.

- **Road Oil**—All product supplied is assigned to the industrial sector.

- **All Other Petroleum Products**—The product supplied of all remaining petroleum products is assigned to the industrial sector.

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

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

Notes and Sources for the Consumption Section (continued)

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

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

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

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

Sources for imports and exports of electricity:
- 1973 through 1980: DOE, Economic Regulatory Administration, "Report on Electric Energy Exchanges with Canada and Mexico."
- 1981: DOE, Office of Energy Emergency Operations, "Report on Electric Energy Exchanges with Canada and Mexico for Calendar Year 1981," April 1982 (revised June 1982).
- 1982 and 1983: DOE, Economic Regulatory Administration, EIA-781, "Annual Report of International Electric Import/Export Data."
- 1984: EIA Estimates.

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

9. **Net Coke Imports:** This is coke made from coal. Net imports means imports minus exports, and the parentheses indicate that exports are greater than imports.
Sources:
- 1973 through 1975: DOI, BOM, *Minerals Yearbook,* "Coke and Coal Chemicals," chapter.
- 1976 through 1980: EIA, *Energy Data Report,* "Coke and Coal Chemicals," annual.
- 1981 forward: EIA, *Energy Data Report,* "Coke Plant Report," quarterly/annual.

10. **Other Energy:** "Other" is electricity produced from geothermal power and wood, waste, and wind energy.
Sources: same as Note 8 above, for Nuclear.

11. **Electricity Sales:** From the sources cited below the following sales categories are available: residential, commercial, industrial, and other. For the end-use estimates in this section, the "other" category (which is primarily sales for use in government buildings) is added to the commercial sector except for approximately 4 percent, which represents the transportation sector use of electricity, primarily by railroads and railways. Sales of electricity are converted into Btu at the rate of 3,412 Btu per kilowatt-hour.
Sources of sales data:
- 1973 through 1976: FPC, Form 5, "Monthly Statement of Electric Operating Revenue and Income."
- 1977 through February 1980: EIA, FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income."
- March 1980 through December 1982: EIA, FERC Form 5, "Electric Utility Company Monthly Statement."
- January 1983 forward: EIA, EIA Form 826, "Electric Utility Company Monthly Statement."

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

Crude Oil and Refined Petroleum Products*

Domestic crude oil production during August 1984 was estimated to be 8.8 million barrels per day, the same rate as the previous month, but 1.2 percent higher than the rate in August 1983.

Total petroleum imports averaged 4.8 million barrels per day in August 1984, 11.0 percent less than the July 1984 rate and 22.1 percent less than the August 1983 rate.

In August 1984, 15.6 million barrels per day of petroleum products were supplied for domestic use, 0.6 percent above the level in July 1984 and 1.0 percent above the level of the previous August. Motor gasoline accounted for 44.4 percent of the total; distillate fuel oil, 16.5 percent; and residual fuel oil, 7.7 percent.

Motor gasoline supplied during August 1984 averaged 6.9 million barrels per day, 1.5 percent above the rate in July 1984 and 0.2 percent above the rate of the previous August. Stocks of motor gasoline totaled 228 million barrels at the end of August 1984, 11 million barrels below the level at the end of July 1984 but 2 million barrels above the August 1983 level.

In August 1984, 2.6 million barrels of distillate fuel oil were supplied per day, 2.5 percent higher than the July 1984 rate and 3.4 percent higher than the August 1983 rate. Distillate fuel oil stocks were 136 million barrels at the end of August 1984, 11 million barrels above the level at the end of the previous month but 6 million barrels below the August 1983 level.

Residual fuel oil supplied in August 1984 averaged 1.2 million barrels per day, 0.9 percent lower than in July 1984 and 14.1 percent lower than the August 1983 rate. Residual fuel oil stocks measured 43 million barrels at the end of August 1984, 6 million barrels less than the stocks level of the previous month and 5 million barrels less than the ending stocks level for August 1983.

*Estimates for the most current month are based on Energy Information Administration (EIA) weekly data (except crude production) and will be revised to conform with data from the EIA Petroleum Reporting System as available. For the most recent month, crude production is an EIA estimate based on historical and provisional data through May 1984. The total import data above include imports into the Strategic Petroleum Reserve.

Petroleum

Crude Oil[1] and Petroleum Products Overview

		Field Production			Stock Withdrawal[2]			Ending Stocks[3]
		Total Domestic[4]	Crude Oil	Natural Gas Plant Production	Crude Oil[5]	Petroleum Products	Petroleum Products Supplied	Crude Oil[5] and Petroleum Products
		Thousand barrels per day						Million barrels
1973	**AVERAGE**	**10,975**	**9,208**	**1,738**	**11**	**-146**	**17,308**	**1,008**
1974	**AVERAGE**	**10,498**	**8,774**	**1,688**	**-62**	**-117**	**16,653**	**[8]1,074**
1975	**AVERAGE**	**10,045**	**8,375**	**1,633**	**[8]-17**	**[8]-145**	**16,322**	**1,133**
1976	**AVERAGE**	**9,774**	**8,132**	**1,603**	**-39**	**96**	**17,461**	**1,112**
1977	**AVERAGE**	**9,913**	**8,245**	**1,618**	**-170**	**-378**	**18,431**	**1,312**
1978	**AVERAGE**	**10,328**	**8,707**	**1,567**	**-78**	**172**	**18,847**	**1,278**
1979	**AVERAGE**	**10,179**	**8,552**	**1,584**	**-148**	**-25**	**18,513**	**1,341**
1980	**AVERAGE**	**10,214**	**8,597**	**1,573**	**-98**	**-42**	**17,056**	**[8]1,392**
1981	**AVERAGE**	**10,230**	**8,572**	**1,609**	**[8]-290**	**[8]130**	**16,058**	**1,484**
1982	January	10,128	8,509	1,578	-401	1,298	16,124	1,456
	February	10,312	8,702	1,563	-242	1,230	16,001	1,428
	March	10,284	8,667	1,572	121	1,047	15,560	1,392
	April	10,188	8,591	1,542	-37	1,583	16,046	1,346
	May	10,244	8,683	1,518	29	-66	14,847	1,347
	June	10,212	8,646	1,511	40	-489	14,998	1,360
	July	10,229	8,658	1,513	-147	-926	14,821	1,393
	August	10,215	8,634	1,524	-440	-44	14,839	1,408
	September	10,279	8,701	1,518	263	-447	15,022	1,414
	October	10,299	8,701	1,530	-548	-47	14,859	1,432
	November	10,359	8,697	1,609	-398	-361	15,009	1,455
	December	10,276	8,598	1,628	128	688	15,487	[8]1,430
	AVERAGE	**10,252**	**8,649**	**1,550**	**-136**	**283**	**15,296**	
1983	January	10,331	8,697	1,580	[8]-499	[8]772	14,722	1,452
	February	10,388	8,758	1,575	-320	1,113	14,792	1,430
	March	10,279	8,700	1,541	83	1,810	15,541	1,372
	April	10,322	8,776	1,506	-402	308	14,692	1,374
	May	10,190	8,631	1,493	-15	-602	14,505	1,394
	June	10,261	8,667	1,523	-122	-276	15,289	1,405
	July	10,228	8,636	1,539	233	-909	15,019	1,426
	August	10,284	8,679	1,562	-796	-271	15,480	1,460
	September	10,447	8,784	1,602	-239	-621	15,506	1,485
	October	10,434	8,771	1,604	-274	-442	14,962	1,508
	November	10,461	8,770	1,641	114	-182	15,500	1,510
	December	9,983	8,397	1,544	-329	2,133	16,726	1,454
	AVERAGE	**10,299**	**8,688**	**1,559**	**-214**	**234**	**15,231**	
1984	January	10,282	8,659	1,585	-342	1,085	16,726	1,430
	February	10,410	8,726	1,629	186	-1,353	15,389	1,464
	March	10,354	8,718	1,588	-2	643	16,017	1,444
	April	10,347	8,688	1,616	-565	-128	15,484	1,465
	May	10,415	8,752	1,610	-616	-422	15,566	1,497
	June	10,398	8,743	1,612	-95	-77	15,687	1,502
	July	10,487	8,769	1,649	R-184	R-184	R15,547	R1,514
	August†	NA	*8,781*	NA	*127*	*-76*	*15,638*	*1,511*
	AVERAGE	**NA**	**8,730**	**NA**	**-188**	**-53**	**15,761**	

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

Petroleum

Crude Oil[1] and Petroleum Products Overview (continued)

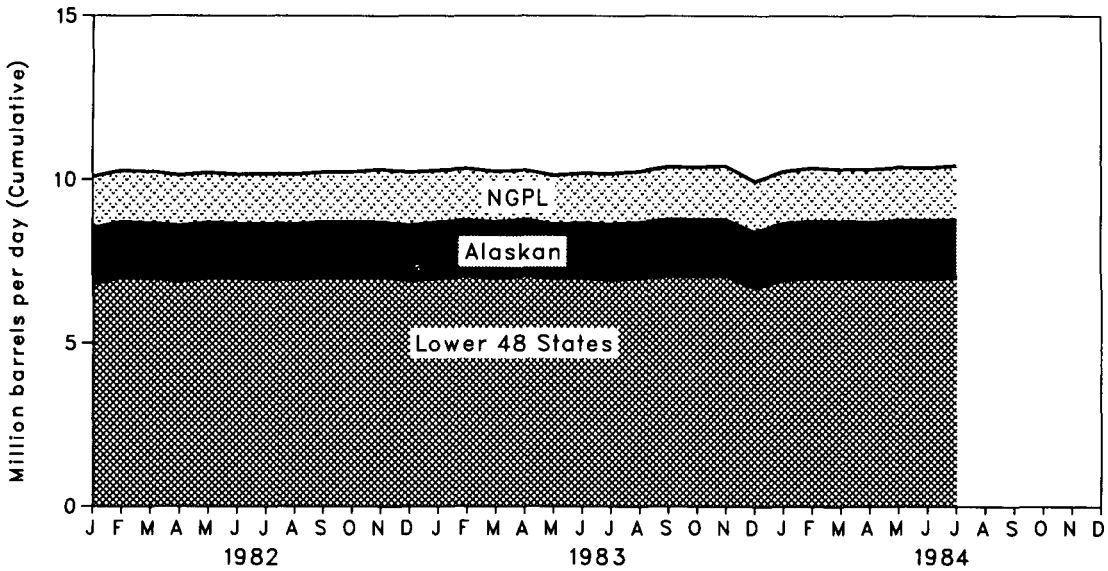
		Imports			Exports			
		Total	Crude Oil[6]	Petroleum Products	Total	Crude Oil	Petroleum Products	Net Imports[7]
		Thousand barrels per day						
1973	**AVERAGE**	**6,256**	**3,244**	**3,012**	**231**	**2**	**229**	**6,025**
1974	**AVERAGE**	**6,112**	**3,477**	**2,635**	**221**	**3**	**218**	**5,892**
1975	**AVERAGE**	**6,056**	**4,105**	**1,951**	**209**	**6**	**204**	**5,846**
1976	**AVERAGE**	**7,313**	**5,287**	**2,026**	**223**	**8**	**215**	**7,090**
1977	**AVERAGE**	**8,807**	**6,615**	**2,193**	**243**	**50**	**193**	**8,565**
1978	**AVERAGE**	**8,363**	**6,356**	**2,008**	**362**	**158**	**204**	**8,002**
1979	**AVERAGE**	**8,456**	**6,519**	**1,937**	**471**	**235**	**236**	**7,985**
1980	**AVERAGE**	**6,909**	**5,263**	**1,646**	**544**	**287**	**258**	**6,365**
1981	**AVERAGE**	**5,996**	**4,396**	**1,599**	**595**	**228**	**367**	**5,401**
1982	January	5,332	3,693	1,639	829	238	591	4,503
	February	4,807	2,990	1,817	804	304	499	4,003
	March	4,484	2,874	1,610	882	321	561	3,602
	April	4,378	2,849	1,529	786	174	611	3,593
	May	4,811	3,309	1,503	803	262	542	4,008
	June	5,327	3,836	1,491	703	94	609	4,624
	July	5,890	4,248	1,642	741	229	512	5,149
	August	5,244	3,851	1,392	858	304	554	4,386
	September	5,414	3,636	1,778	791	184	606	4,624
	October	5,306	3,670	1,636	932	270	662	4,374
	November	5,744	3,862	1,882	786	262	524	4,958
	December	4,606	3,000	1,605	860	193	667	3,746
	AVERAGE	**5,113**	**3,488**	**1,625**	**815**	**236**	**579**	**4,298**
1983	January	4,438	2,964	1,474	973	117	856	3,464
	February	3,726	2,267	1,459	865	262	603	2,861
	March	3,690	2,290	1,400	801	174	627	2,889
	April	4,727	3,118	1,609	809	88	721	3,918
	May	5,089	3,360	1,729	848	280	568	4,241
	June	5,326	3,577	1,749	774	144	630	4,552
	July	5,741	3,871	1,870	571	145	426	5,170
	August	6,159	4,227	1,933	663	172	491	5,496
	September	6,129	4,210	1,919	684	177	507	5,445
	October	5,258	3,446	1,812	576	140	436	4,682
	November	5,210	3,337	1,873	679	186	494	4,531
	December	5,033	3,213	1,820	639	95	544	4,394
	AVERAGE	**5,051**	**3,329**	**1,722**	**739**	**164**	**575**	**4,312**
1984	January	5,347	3,029	2,318	575	153	422	4,772
	February	5,643	2,952	2,691	582	185	397	5,061
	March	5,253	3,455	1,798	840	236	605	4,413
	April	5,319	3,417	1,902	655	172	483	4,664
	May	5,916	3,927	1,989	766	219	548	5,150
	June	5,304	3,410	1,893	864	222	642	4,440
	July	R5,387	R3,646	R1,741	536	108	429	4,851
	August†	*4,795*	*3,289*	*1,506*	NA	NA	NA	NA
	AVERAGE	**5,369**	**3,394**	**1,975**	**NA**	**NA**	**NA**	**NA**

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

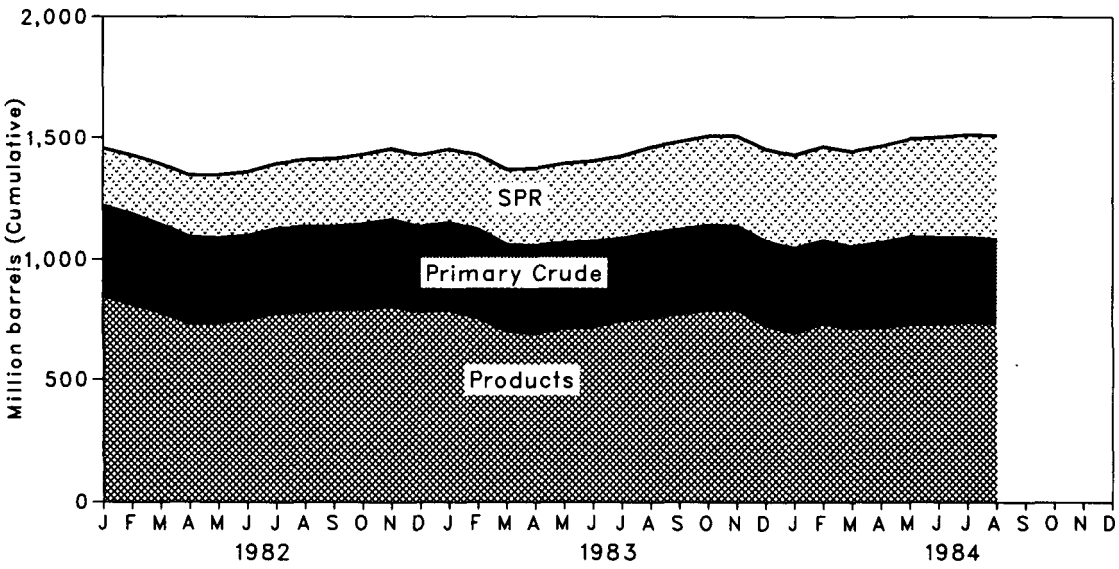
Petroleum

Overview

Production of Crude Oil and Natural Gas Plant Liquids



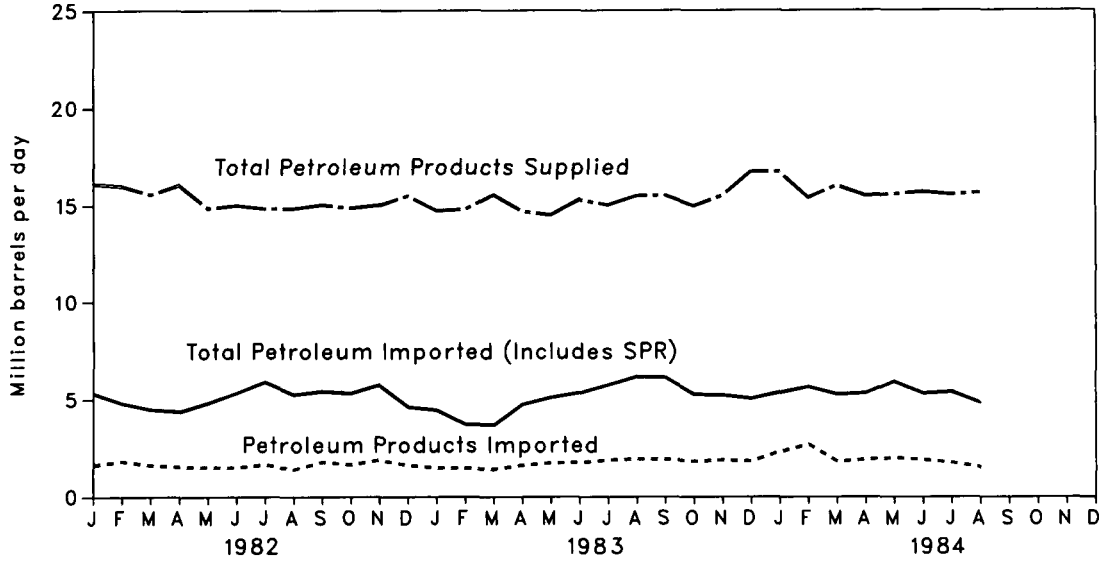
Stocks



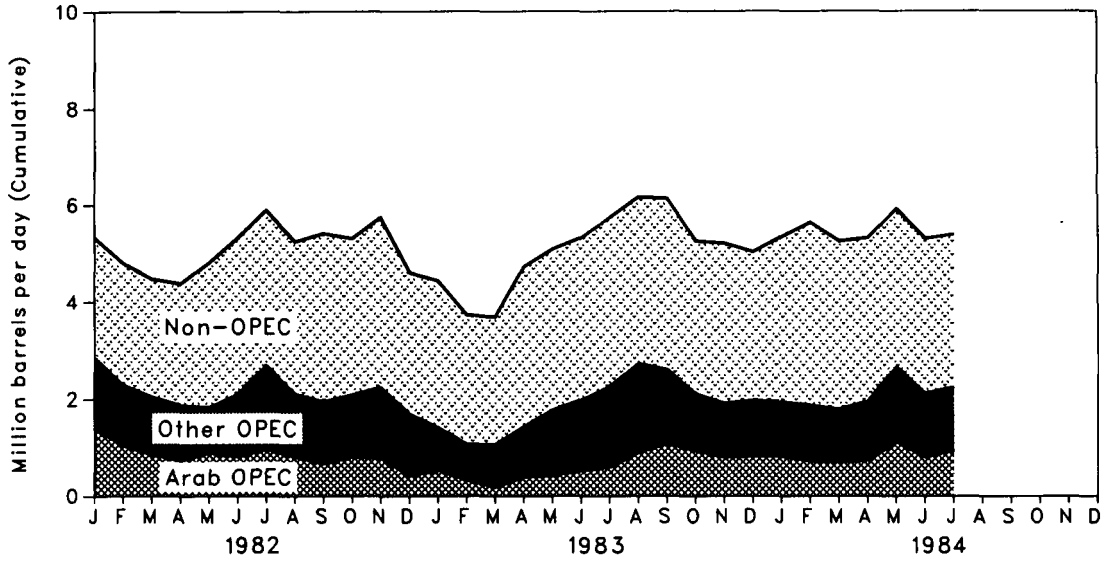
Petroleum

Overview

Products Supplied and Imports



Petroleum Imports by Source



Petroleum

Crude Oil[1] Supply and Disposition

		Supply							
		Field Production		Imports			Stock Withdrawal[2]		Unaccounted for Crude Oil
		Total Domestic	Alaskan	Total	SPR[4]	Other	SPR[4]	Other	
		Thousand barrels per day							
1973	**AVERAGE**	**9,208**	**198**	**3,244**		**3,244**		**11**	**3**
1974	**AVERAGE**	**8,774**	**193**	**3,477**		**3,477**		**-62**	**-25**
1975	**AVERAGE**	**8,375**	**191**	**4,105**		**4,105**		**-17**	**17**
1976	**AVERAGE**	**8,132**	**173**	**5,287**		**5,287**		**-39**	**77**
1977	**AVERAGE**	**8,245**	**464**	**6,615**	**21**	**6,594**	**-20**	**-150**	**-6**
1978	**AVERAGE**	**8,707**	**1,229**	**6,356**	**162**	**6,195**	**-163**	**84**	**-57**
1979	**AVERAGE**	**8,552**	**1,401**	**6,519**	**67**	**6,452**	**-67**	**-81**	**-11**
1980	**AVERAGE**	**8,597**	**1,617**	**5,263**	**44**	**5,219**	**-45**	**-52**	**34**
1981	**AVERAGE**	**8,572**	**1,609**	**4,396**	**256**	**4,141**	**-336**	**[6]46**	**83**
1982	January	8,509	1,705	3,693	170	3,523	-159	-242	101
	February	8,702	1,707	2,990	159	2,830	-213	-29	156
	March	8,667	1,696	2,874	185	2,689	-235	357	2
	April	8,591	1,691	2,849	190	2,659	-233	196	231
	May	8,683	1,707	3,309	204	3,105	-176	205	111
	June	8,646	1,665	3,836	105	3,732	-105	144	133
	July	8,658	1,710	4,248	97	4,150	-97	-50	-20
	August	8,634	1,697	3,851	208	3,643	-208	-232	189
	September	8,701	1,705	3,636	139	3,497	-143	406	-210
	October	8,701	1,706	3,670	216	3,454	-216	-332	249
	November	8,697	1,676	3,862	180	3,683	-179	-219	-124
	December	8,598	1,682	3,000	124	2,877	-125	252	35
	AVERAGE	**8,649**	**1,696**	**3,488**	**165**	**3,323**	**-174**	**38**	**71**
1983	January	8,697	1,732	2,964	219	2,746	-219	[6]-280	170
	February	8,758	1,717	2,267	197	2,070	-197	-123	262
	March	8,700	1,732	2,290	201	2,089	-184	267	31
	April	8,776	1,721	3,118	205	2,913	-197	-205	98
	May	8,631	1,662	3,360	289	3,071	-293	278	169
	June	8,667	1,687	3,577	190	3,387	-188	66	370
	July	8,636	1,715	3,871	274	3,597	-264	497	-167
	August	8,679	1,697	4,227	350	3,876	-358	-438	281
	September	8,784	1,738	4,210	309	3,901	-307	68	-30
	October	8,771	1,733	3,446	202	3,244	-201	-73	44
	November	8,770	1,720	3,337	171	3,166	-135	250	34
	December	8,397	1,711	3,213	193	3,020	-252	-78	117
	AVERAGE	**8,688**	**1,714**	**3,329**	**234**	**3,096**	**-234**	**20**	**114**
1984	January	8,659	1,741	3,029	200	2,829	-173	-169	451
	February	8,726	1,740	2,952	85	2,868	-96	282	487
	March	8,718	1,740	3,455	148	3,307	-147	145	66
	April	8,688	1,725	3,417	170	3,247	-170	-396	590
	May	8,752	1,793	3,927	246	3,681	-245	-371	463
	June	8,743	1,792	3,410	309	3,101	-309	214	490
	July	8,769	1,769	R3,646	R329	R3,317	R-328	R144	25
	August†	*8,781*	*1,725*	*3,289*	*198*	*3,091*	*-215*	*342*	NA
	AVERAGE	**8,730**	**1,753**	**3,394**	**211**	**3,183**	**-211**	**23**	**NA**

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

Petroleum

Crude Oil[1] Supply and Disposition (continued)

		Supply		Disposition			Ending Stocks[2]		
		Crude Used Directly[5]	Crude Losses	Refinery Inputs	Exports	Product Supplied[5]	Total	SPR[4]	Other Primary
		Thousand barrels per day					Million barrels		
1973	**AVERAGE**	**-19**	**13**	**12,431**	**2**	**NA**	**242**		**242**
1974	**AVERAGE**	**-15**	**13**	**12,133**	**3**	**NA**	**265**		**265**
1975	**AVERAGE**	**-17**	**13**	**12,442**	**6**	**NA**	**271**		**271**
1976	**AVERAGE**	**-18**	**15**	**13,416**	**8**	**NA**	**285**		**285**
1977	**AVERAGE**	**-14**	**16**	**14,602**	**50**	**NA**	**348**	**7**	**340**
1978	**AVERAGE**	**-14**	**16**	**14,739**	**158**	**NA**	**376**	**67**	**309**
1979	**AVERAGE**	**-13**	**16**	**14,648**	**235**	**NA**	**430**	**91**	**339**
1980	**AVERAGE**	**-13**	**15**	**13,481**	**287**	**NA**	**[6]466**	**108**	**[6]358**
1981	**AVERAGE**	**-58**	**5**	**12,470**	**228**	**NA**	**594**	**230**	**363**
1982	January	-63	3	11,599	238	NA	606	235	371
	February	-64	2	11,236	304	NA	613	241	372
	March	-63	5	11,276	321	NA	609	249	361
	April	-65	3	11,392	174	NA	610	256	355
	May	-62	3	11,806	262	NA	609	261	348
	June	-60	7	12,494	94	NA	608	264	344
	July	-60	3	12,446	229	NA	613	267	346
	August	-57	2	11,871	304	NA	626	274	353
	September	-56	4	12,146	184	NA	619	278	341
	October	-51	2	11,749	270	NA	636	285	351
	November	-51	1	11,724	262	NA	648	290	358
	December	-53	1	11,514	193	NA	[6]644	294	[6]350
	AVERAGE	**-59**	**3**	**11,774**	**236**	**NA**			
1983	January	NA	2	11,143	117	71	660	301	360
	February	NA	3	10,633	262	71	669	306	363
	March	NA	2	10,859	174	70	667	312	355
	April	NA	2	11,433	88	68	679	318	361
	May	NA	1	11,800	280	63	679	327	353
	June	NA	(s)	12,284	144	64	683	332	351
	July	NA	2	12,360	145	65	676	341	335
	August	NA	1	12,152	172	64	700	352	349
	September	NA	1	12,482	177	66	708	361	347
	October	NA	1	11,782	140	63	716	367	349
	November	NA	2	12,004	186	64	713	371	341
	December	NA	1	11,234	95	67	723	379	344
	AVERAGE	**NA**	**2**	**11,685**	**164**	**66**			
1984	January	NA	1	11,579	153	64	733	384	348
	February	NA	1	12,100	185	65	727	387	340
	March	NA	2	11,936	236	62	728	392	336
	April	NA	(s)	11,893	172	64	744	397	348
	May	NA	2	12,243	219	62	764	404	359
	June	NA	2	12,263	222	61	766	414	353
	July	NA	1	R12,087	108	60	R772	R424	R348
	August†	NA	NA	*12,488*	NA	NA	*772*	*429*	*343*
	AVERAGE	**NA**	**NA**	**12,073**	**NA**	**NA**			

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

Petroleum

Crude Oil and Petroleum Product Imports

		Imports from OPEC Sources[1]										
		Algeria	Libya	Saudi Arabia	United Arab Emirates	Indonesia	Iran	Nigeria	Venezuela	Other OPEC[2]	Total OPEC	Total Arab OPEC[3]
		Thousand barrels per day										
1973	**AVERAGE**	**136**	**164**	**486**	**71**	**213**	**223**	**459**	**1,135**	**106**	**2,993**	**915**
1974	**AVERAGE**	**190**	**4**	**461**	**74**	**300**	**469**	**713**	**979**	**88**	**3,280**	**752**
1975	**AVERAGE**	**282**	**232**	**715**	**117**	**390**	**280**	**762**	**702**	**122**	**3,601**	**1,383**
1976	**AVERAGE**	**432**	**453**	**1,230**	**254**	**539**	**298**	**1,025**	**700**	**134**	**5,066**	**2,424**
1977	**AVERAGE**	**559**	**723**	**1,380**	**335**	**541**	**535**	**1,143**	**690**	**287**	**6,193**	**3,185**
1978	**AVERAGE**	**649**	**654**	**1,144**	**385**	**573**	**555**	**919**	**645**	**226**	**5,751**	**2,963**
1979	**AVERAGE**	**636**	**658**	**1,356**	**281**	**420**	**304**	**1,080**	**690**	**212**	**5,637**	**3,056**
1980	**AVERAGE**	**488**	**554**	**1,261**	**172**	**348**	**9**	**857**	**481**	**130**	**4,300**	**2,551**
1981	**AVERAGE**	**311**	**319**	**1,129**	**81**	**366**	**0**	**620**	**406**	**90**	**3,323**	**1,848**
1982	January	254	161	877	111	289	0	663	376	128	2,859	1,403
	February	139	92	693	89	244	0	584	355	102	2,297	1,054
	March	91	37	555	155	200	0	522	399	91	2,051	860
	April	85	0	511	122	215	0	427	426	85	1,871	740
	May	179	0	601	116	236	0	222	422	54	1,830	897
	June	115	0	593	94	215	72	537	361	110	2,096	820
	July	159	0	660	108	327	69	910	356	95	2,685	965
	August	181	0	489	133	271	27	574	299	133	2,107	818
	September	179	0	432	57	191	21	477	518	69	1,943	677
	October	249	7	494	61	242	108	313	504	106	2,084	810
	November	247	14	489	47	283	34	479	528	115	2,235	797
	December	155	0	237	12	265	88	462	399	73	1,690	421
	AVERAGE	**170**	**26**	**552**	**92**	**248**	**35**	**514**	**412**	**97**	**2,146**	**854**
1983	January	207	0	282	47	255	43	186	337	54	1,412	537
	February	115	0	214	9	217	0	92	393	28	1,068	338
	March	63	0	103	0	138	0	121	440	201	1,066	183
	April	227	0	162	(s)	210	0	186	523	125	1,432	389
	May	286	0	122	12	405	37	385	455	69	1,771	420
	June	300	0	188	40	466	38	467	335	138	1,973	528
	July	283	0	182	64	464	112	525	434	187	2,251	606
	August	378	0	448	52	433	213	464	511	230	2,728	903
	September	423	0	587	21	501	86	324	432	221	2,595	1,084
	October	261	0	638	16	368	12	307	337	169	2,108	938
	November	184	0	545	56	302	21	215	452	135	1,910	807
	December	144	0	569	45	294	9	329	415	163	1,969	826
	AVERAGE	**240**	**0**	**337**	**30**	**338**	**48**	**302**	**422**	**144**	**1,862**	**632**
1984	January	242	0	463	114	278	0	243	547	51	1,939	828
	February	348	0	324	33	267	0	244	481	174	1,871	723
	March	283	0	307	112	284	67	260	354	127	1,792	717
	April	280	0	320	95	221	0	288	581	158	1,944	734
	May	456	0	329	240	480	0	289	621	242	2,657	1,131
	June	284	0	411	46	415	0	243	574	139	2,112	806
	July	332	0	429	112	384	0	204	535	242	2,237	946
	AVERAGE	**318**	**0**	**370**	**109**	**333**	**10**	**253**	**528**	**162**	**2,081**	**843**

[1]Excludes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products that were refined from crude oil produced in OPEC countries.
[2]Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
[3]Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.
Footnotes continued on following page.

Petroleum

Crude Oil and Petroleum Product Imports (continued)

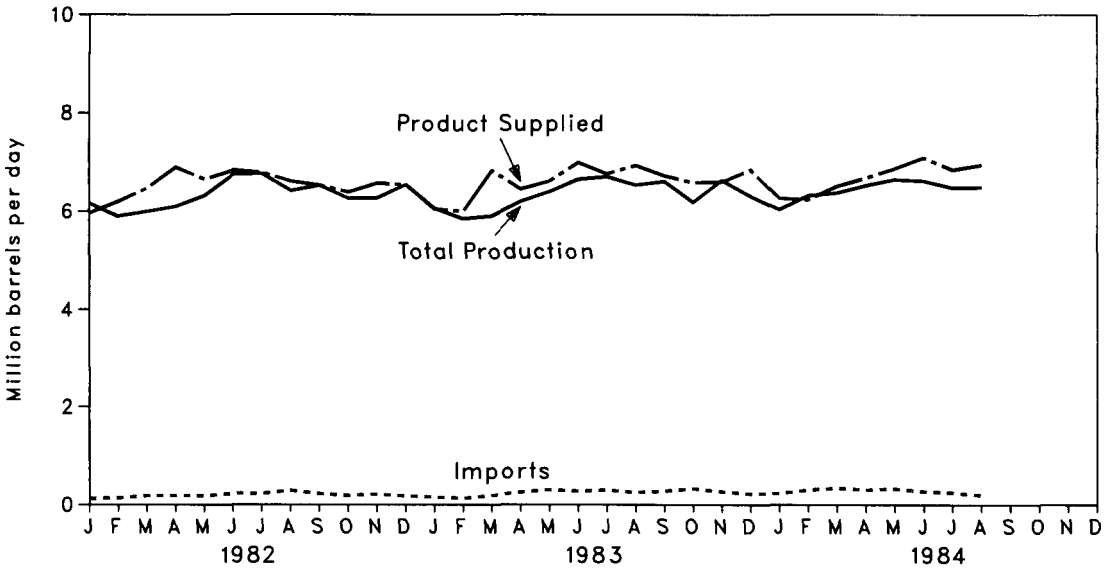
		Imports from Non-OPEC Sources[1]										
		Bahamas	Canada	Mexico	Netherlands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico	Virgin Islands	Other Non-OPEC	Total Non-OPEC	Total Imports
		Thousand barrels per day										
1973	**AVERAGE**	**174**	**1,325**	**16**	**585**	**255**	**15**	**99**	**329**	**465**	**3,263**	**6,256**
1974	**AVERAGE**	**164**	**1,070**	**8**	**511**	**251**	**8**	**90**	**391**	**340**	**2,832**	**6,112**
1975	**AVERAGE**	**152**	**846**	**71**	**332**	**242**	**14**	**90**	**406**	**300**	**2,454**	**6,056**
1976	**AVERAGE**	**118**	**599**	**87**	**275**	**274**	**31**	**88**	**422**	**353**	**2,247**	**7,313**
1977	**AVERAGE**	**171**	**517**	**179**	**211**	**289**	**126**	**105**	**466**	**550**	**2,614**	**8,807**
1978	**AVERAGE**	**160**	**467**	**318**	**229**	**253**	**180**	**94**	**429**	**484**	**2,613**	**8,363**
1979	**AVERAGE**	**147**	**538**	**439**	**231**	**190**	**202**	**92**	**431**	**548**	**2,819**	**8,456**
1980	**AVERAGE**	**78**	**455**	**533**	**225**	**176**	**176**	**88**	**388**	**491**	**2,609**	**6,909**
1981	**AVERAGE**	**74**	**447**	**522**	**197**	**133**	**375**	**62**	**327**	**534**	**2,672**	**5,996**
1982	January	58	513	425	179	106	346	62	334	452	2,474	5,332
	February	67	537	476	221	120	181	38	362	508	2,510	4,807
	March	43	437	503	189	118	294	62	307	480	2,433	4,484
	April	82	360	476	184	166	247	36	266	690	2,507	4,378
	May	77	419	766	152	95	516	47	302	607	2,981	4,811
	June	32	481	797	148	129	557	58	322	708	3,231	5,327
	July	64	536	783	158	118	433	38	376	698	3,204	5,890
	August	80	443	853	145	106	520	24	317	650	3,137	5,244
	September	92	493	897	195	89	631	51	278	746	3,472	5,414
	October	45	459	682	148	109	666	52	262	801	3,222	5,306
	November	51	553	860	212	90	623	81	334	706	3,508	5,744
	December	88	561	689	174	102	438	48	336	480	2,916	4,606
	AVERAGE	**65**	**482**	**685**	**175**	**112**	**456**	**50**	**316**	**627**	**2,968**	**5,113**
1983	January	68	534	849	228	73	314	40	299	621	3,026	4,438
	February	92	586	722	183	81	193	50	192	558	2,658	3,726
	March	86	488	775	187	78	240	43	162	565	2,624	3,690
	April	174	454	981	216	85	421	20	183	759	3,295	4,727
	May	135	518	944	153	108	484	42	235	699	3,318	5,089
	June	137	586	830	173	120	440	48	262	757	3,353	5,326
	July	69	634	849	198	107	369	37	364	864	3,490	5,741
	August	144	542	906	197	90	461	40	313	738	3,431	6,159
	September	148	533	849	261	82	475	33	307	845	3,534	6,129
	October	171	532	771	172	106	414	48	357	580	3,151	5,258
	November	148	556	726	144	110	334	55	427	801	3,300	5,210
	December	127	604	710	153	113	429	22	278	628	3,063	5,033
	AVERAGE	**125**	**547**	**826**	**189**	**96**	**382**	**40**	**282**	**701**	**3,189**	**5,051**
1984	January	152	624	705	277	54	382	53	390	772	3,408	5,347
	February	142	620	747	288	77	338	58	418	1,083	3,772	5,643
	March	88	726	707	169	93	400	34	247	996	3,460	5,253
	April	88	691	859	207	91	282	37	257	863	3,375	5,319
	May	31	715	675	192	57	418	38	336	796	3,259	5,916
	June	50	499	732	234	104	318	53	268	934	3,192	5,304
	July	14	574	738	99	120	362	27	292	924	3,150	5,387
	AVERAGE	**80**	**636**	**737**	**209**	**85**	**358**	**43**	**315**	**908**	**3,371**	**5,452**

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

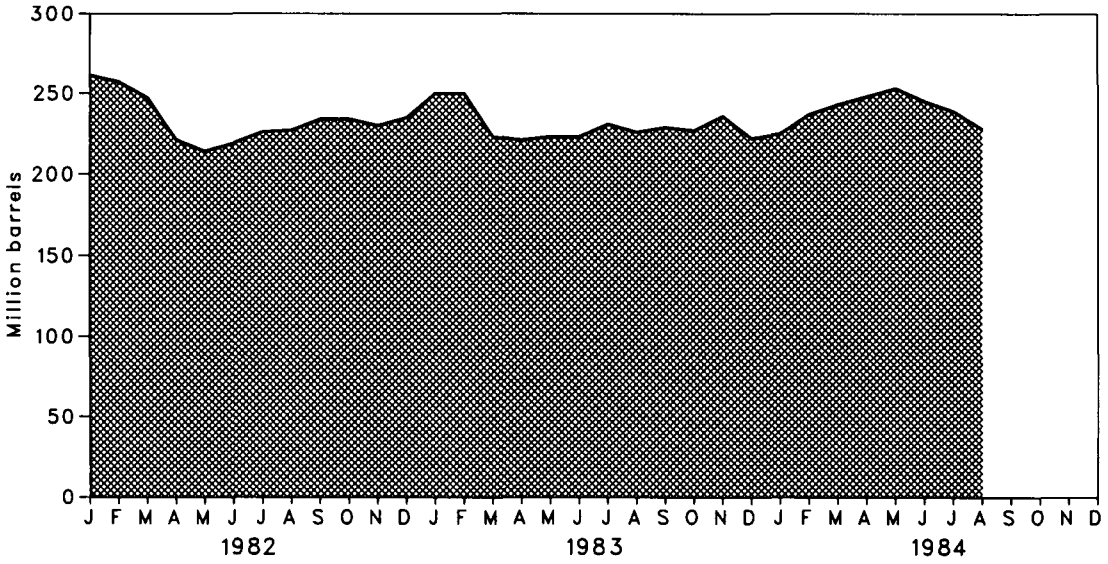
Petroleum

Motor Gasoline

Products Supplied, Total Production, and Imports



Stocks



Petroleum

Finished Motor Gasoline Supply and Disposition

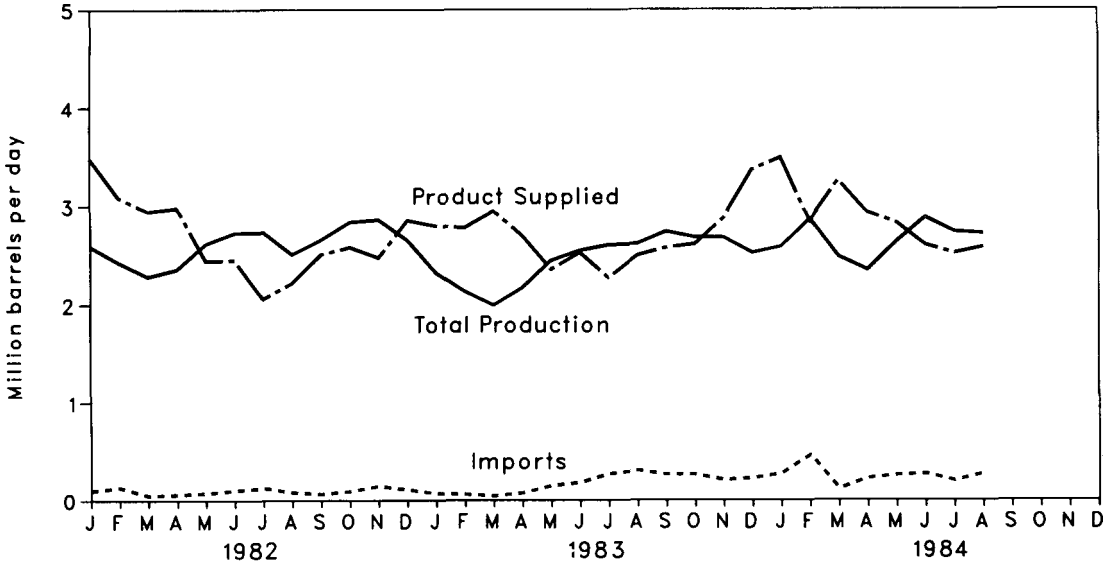
		Supply			Disposition				Ending Stocks[1]	
						Product Supplied				
		Total Production	Imports[2]	Stock Withdrawal[2,3]	Exports	Total	Unleaded[4]	Unleaded Percent of Total	Total Motor Gasoline[5]	Finished Motor Gasoline
		Thousand barrels per day							Million barrels	
1973	**AVERAGE**	**6,535**	**134**	**9**	**4**	**6,674**			**209**	
1974	**AVERAGE**	**6,360**	**204**	**-24**	**2**	**6,537**			**[6]218**	
1975	**AVERAGE**	**6,520**	**184**	**[6]-28**	**2**	**6,675**			**235**	
1976	**AVERAGE**	**6,841**	**131**	**10**	**3**	**6,978**			**231**	
1977	**AVERAGE**	**7,033**	**217**	**-72**	**2**	**7,177**	**1,976**	**27.5**	**258**	
1978	**AVERAGE**	**7,169**	**190**	**54**	**1**	**7,412**	**2,521**	**34.0**	**238**	
1979	**AVERAGE**	**6,852**	**181**	**2**	**(s)**	**7,034**	**2,798**	**39.8**	**237**	
1980	**AVERAGE**	**6,506**	**140**	**-66**	**1**	**6,579**	**3,067**	**46.6**	**[6]261**	
1981	**AVERAGE[7]**	**6,405**	**157**	**[6]28**	**2**	**6,588**	**3,264**	**49.5**	**253**	
1982	January	6,167	128	-316	18	5,961	3,067	51.5	261	213
	February	5,899	133	172	8	6,196	3,210	51.8	257	208
	March	5,994	183	334	44	6,466	3,358	51.9	247	198
	April	6,095	185	650	33	6,897	3,495	50.7	221	179
	May	6,319	182	177	23	6,655	3,415	51.3	214	173
	June	6,754	230	-134	14	6,835	3,565	52.2	219	177
	July	6,768	225	-178	24	6,790	3,577	52.7	226	183
	August	6,419	291	-81	16	6,614	3,526	53.3	227	185
	September	6,527	223	-198	22	6,531	3,404	52.1	234	191
	October	6,262	185	-42	15	6,391	3,351	52.4	234	192
	November	6,273	211	101	11	6,574	3,451	52.5	230	189
	December	6,542	178	-165	7	6,549	3,485	53.2	[6]235	[6]194
	AVERAGE	**6,338**	**197**	**25**	**20**	**6,539**	**3,409**	**52.1**		
1983	January	6,065	153	[6]-167	(s)	6,051	3,364	55.6	250	207
	February	5,848	128	24	(s)	6,000	3,264	54.4	250	207
	March	5,906	186	768	23	6,836	3,622	53.0	223	183
	April	6,201	255	-3	1	6,452	3,492	54.1	221	183
	May	6,397	305	-83	1	6,617	3,558	53.8	223	185
	June	6,655	277	84	22	6,994	3,792	54.2	223	183
	July	6,707	302	-225	18	6,765	3,746	55.4	231	190
	August	6,537	250	161	13	6,936	3,836	55.3	226	185
	September	6,611	279	-149	14	6,727	3,691	54.9	229	189
	October	6,188	330	72	2	6,588	3,711	56.3	227	187
	November	6,634	269	-298	2	6,603	3,692	55.9	236	196
	December	6,308	224	339	25	6,846	3,966	57.9	222	186
	AVERAGE	**6,340**	**247**	**45**	**10**	**6,622**	**3,647**	**55.1**		
1984	January	6,037	233	-1	1	6,268	3,606	57.5	225	186
	February	6,320	303	-384	2	6,237	3,585	57.5	237	197
	March	6,375	343	-197	9	6,512	3,747	57.5	243	203
	April	6,528	308	-153	(s)	6,682	3,854	57.7	248	207
	May	6,650	329	-106	(s)	6,873	3,990	58.1	253	211
	June	6,620	272	217	17	7,092	4,210	59.4	245	204
	July	R6,481	R247	R130	9	R6,849	4,094	59.8	R239	R200
	August†	*6,493*	*198*	*250*	NA	*6,949*	NA	NA	*228*	*190*
	AVERAGE	**6,438**	**279**	**-28**	**NA**	**6,685**	**NA**	**NA**		

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

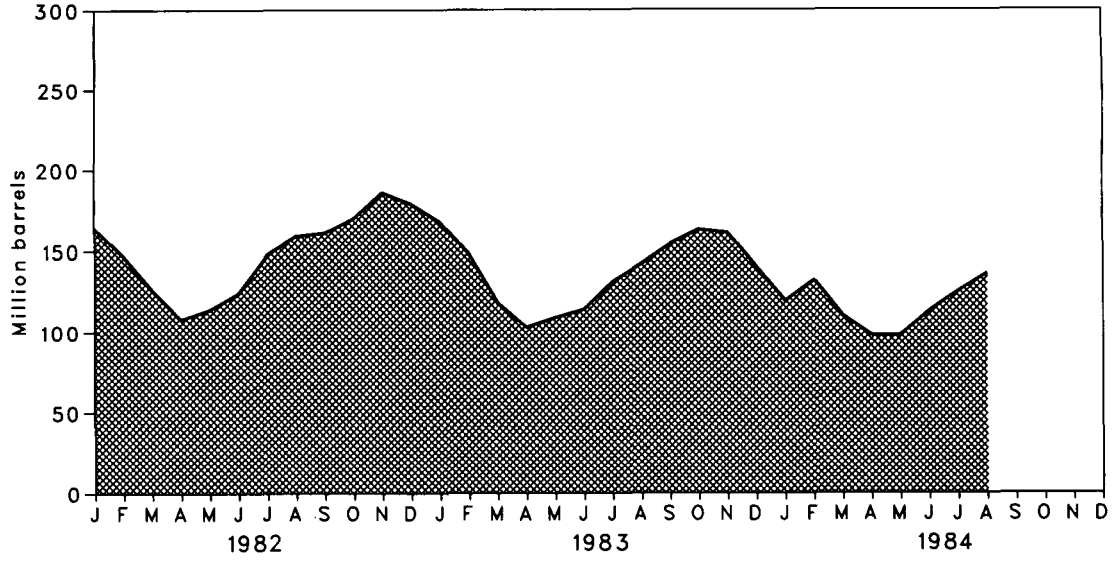
Petroleum

Distillate Fuel Oil

Product Supplied, Total Production, and Imports



Stocks



Petroleum

Distillate Fuel Oil Supply and Disposition

		Supply				Disposition		Ending Stocks[1]
		Total Production	Imports	Stock Withdrawal[2]	Crude Used Directly[3]	Exports	Product Supplied[3]	
		Thousand barrels per day						Million barrels
1973	**AVERAGE**	**2,822**	**392**	**-115**	**2**	**9**	**3,092**	**196**
1974	**AVERAGE**	**2,669**	**289**	**-9**	**2**	**2**	**2,948**	**r200**
1975	**AVERAGE**	**2,654**	**155**	**r40**	**2**	**1**	**2,851**	**209**
1976	**AVERAGE**	**2,924**	**146**	**62**	**1**	**1**	**3,133**	**186**
1977	**AVERAGE**	**3,278**	**250**	**-176**	**1**	**1**	**3,352**	**250**
1978	**AVERAGE**	**3,167**	**173**	**93**	**1**	**3**	**3,432**	**216**
1979	**AVERAGE**	**3,153**	**193**	**-34**	**1**	**3**	**3,311**	**229**
1980	**AVERAGE**	**2,662**	**142**	**64**	**1**	**3**	**2,866**	**r205**
1981	**AVERAGE[5]**	**2,613**	**173**	**r38**	**10**	**5**	**2,829**	**192**
1982	January	2,591	97	876	10	90	3,484	164
	February	2,427	132	605	11	90	3,085	147
	March	2,288	48	682	10	84	2,945	126
	April	2,358	59	612	13	64	2,978	108
	May	2,618	74	-183	10	75	2,444	114
	June	2,729	102	-335	10	55	2,452	124
	July	2,734	125	-789	11	24	2,058	148
	August	2,507	80	-339	10	40	2,218	159
	September	2,657	61	-85	12	139	2,507	161
	October	2,838	91	-289	8	66	2,581	170
	November	2,860	145	-514	8	24	2,475	186
	December	2,655	109	225	10	143	2,855	r179
	AVERAGE	**2,606**	**93**	**35**	**10**	**74**	**2,671**	
1983	January	2,321	68	r580	NA	173	2,797	168
	February	2,135	59	691	NA	105	2,780	148
	March	1,993	42	971	NA	59	2,947	118
	April	2,171	73	500	NA	47	2,697	103
	May	2,444	147	-186	NA	50	2,354	109
	June	2,546	179	-161	NA	40	2,524	114
	July	2,604	267	-546	NA	55	2,270	131
	August	2,615	301	-379	NA	43	2,495	142
	September	2,739	259	-386	NA	37	2,575	154
	October	2,681	260	-276	NA	55	2,611	163
	November	2,680	203	45	NA	54	2,874	161
	December	2,522	221	676	NA	54	3,365	140
	AVERAGE	**2,456**	**174**	**124**	**NA**	**64**	**2,690**	
1984	January	2,585	270	676	NA	40	3,490	119
	February	2,864	458	-439	NA	41	2,842	132
	March	2,480	115	727	NA	66	3,256	110
	April	2,347	220	393	NA	32	2,929	98
	May	2,633	252	-10	NA	48	2,827	98
	June	2,879	266	-490	NA	53	2,602	113
	July	R2,736	R198	R-375	NA	40	R2,518	125
	August†	*2,719*	*268*	*-345*	NA	NA	*2,580*	*136*
	AVERAGE	**2,654**	**254**	**21**	**NA**	**NA**	**2,882**	

[1]Stocks are totals as of end of period.
[2]A negative number indicates an increase in stocks and a positive number indicates a decrease.
[3]Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Note 4 on the last page of this section.
[4]In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.
[5]Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.
†Italics denote estimates based upon preliminary data. R=Revised data. NA=Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
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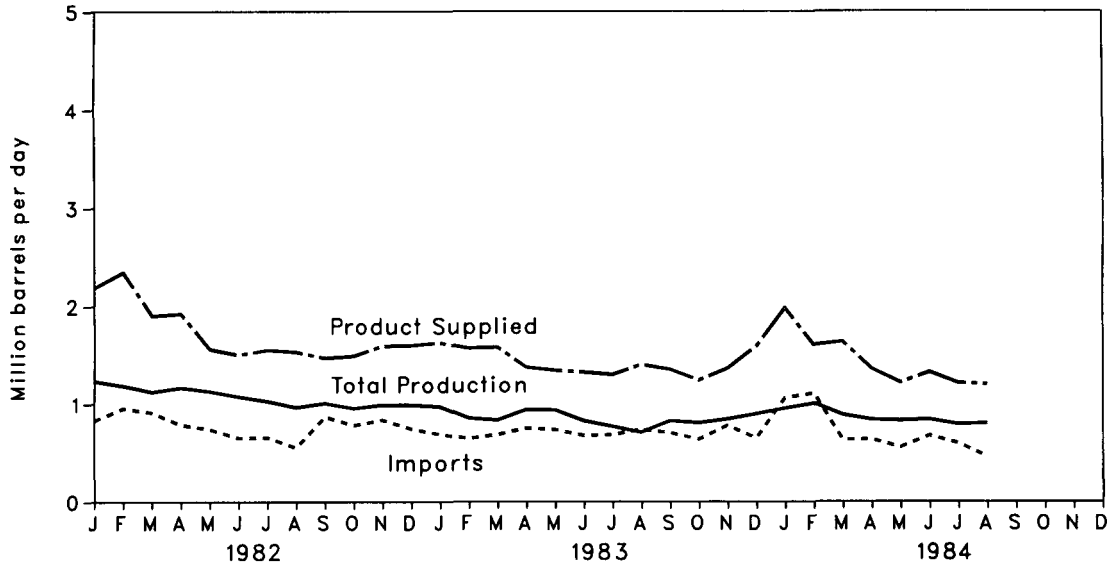
Sources: • See the last page of this section.

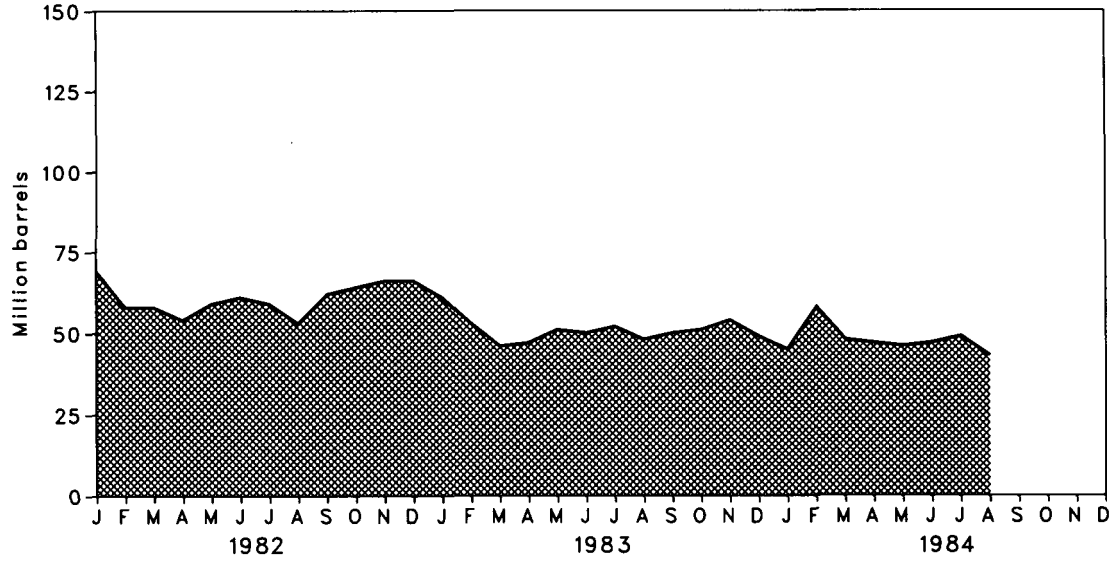
Petroleum

Residual Fuel Oil

Product Supplied, Total Production, and Imports



Stocks



Petroleum

Residual Fuel Oil Supply and Disposition

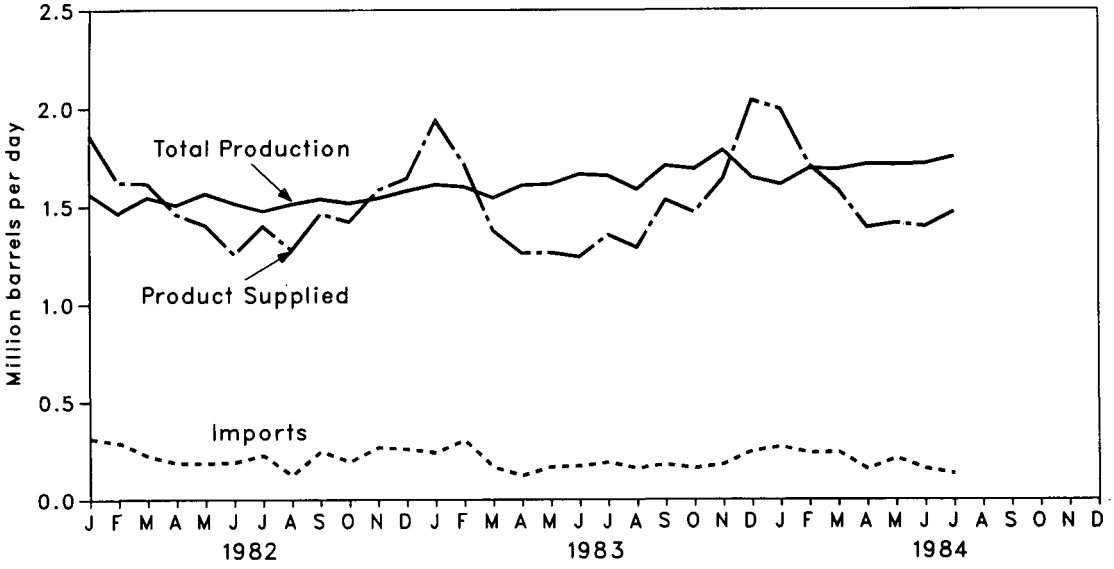
		Supply				Disposition		Ending Stocks[1]
		Total Production	Imports	Stock Withdrawal[2]	Crude Used Directly[3]	Exports	Product Supplied[3]	
		Thousand barrels per day						Million barrels
1973	**AVERAGE**	**971**	**1,853**	**5**	**17**	**23**	**2,822**	**53**
1974	**AVERAGE**	**1,070**	**1,587**	**-17**	**13**	**14**	**2,639**	**[4]60**
1975	**AVERAGE**	**1,235**	**1,223**	**[4]2**	**15**	**15**	**2,462**	**74**
1976	**AVERAGE**	**1,377**	**1,413**	**5**	**17**	**12**	**2,801**	**72**
1977	**AVERAGE**	**1,754**	**1,359**	**-48**	**13**	**6**	**3,071**	**90**
1978	**AVERAGE**	**1,667**	**1,355**	**-1**	**13**	**13**	**3,023**	**90**
1979	**AVERAGE**	**1,687**	**1,151**	**-15**	**12**	**9**	**2,826**	**96**
1980	**AVERAGE**	**1,580**	**939**	**10**	**12**	**33**	**2,508**	**[4]92**
1981	**AVERAGE[5]**	**1,321**	**800**	**[4]37**	**48**	**118**	**2,088**	**78**
1982	January	1,235	831	301	53	235	2,185	69
	February	1,186	956	363	53	213	2,344	58
	March	1,123	912	12	53	197	1,903	58
	April	1,166	788	150	52	234	1,923	54
	May	1,128	742	-172	52	191	1,560	59
	June	1,074	652	-57	50	217	1,501	61
	July	1,028	657	56	49	239	1,550	59
	August	965	551	203	47	235	1,531	53
	September	1,008	872	-306	44	148	1,470	62
	October	955	783	-57	43	234	1,490	64
	November	989	837	-94	43	182	1,591	66
	December	989	747	6	43	186	1,598	[4]66
	AVERAGE	**1,070**	**776**	**32**	**48**	**209**	**1,716**	
1983	January	972	691	[4]258	NA	294	1,626	61
	February	857	647	257	NA	191	1,570	53
	March	835	686	227	NA	169	1,579	46
	April	941	753	-10	NA	310	1,374	47
	May	936	738	-141	NA	190	1,342	51
	June	828	677	36	NA	218	1,323	50
	July	769	684	-64	NA	90	1,299	52
	August	710	739	115	NA	165	1,400	48
	September	826	706	-47	NA	134	1,351	50
	October	807	638	-50	NA	153	1,243	51
	November	845	780	-97	NA	167	1,362	54
	December	897	649	182	NA	141	1,587	49
	AVERAGE	**852**	**699**	**55**	**NA**	**185**	**1,421**	
1984	January	953	1,061	119	NA	151	1,981	45
	February	1,003	1,107	-420	NA	87	1,602	58
	March	887	633	321	NA	204	1,637	48
	April	840	637	9	NA	130	1,357	47
	May	829	554	35	NA	200	1,218	46
	June	841	676	-17	NA	176	1,324	47
	July	R792	R596	R-77	NA	99	R1,213	R49
	August†	*802*	*458*	*121*	NA	NA	*1,202*	*43*
	AVERAGE	**867**	**712**	**15**	**NA**	**NA**	**1,441**	

[1]Stocks are totals as of end of period.
[2]A negative number indicates an increase in stocks and a positive number indicates a decrease.
[3]Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Note 4 on the last page of this section.
[4]In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.
[5]Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.
†Italics denote estimates based upon preliminary data. R=Revised data. NA=Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • See the last page of this section.

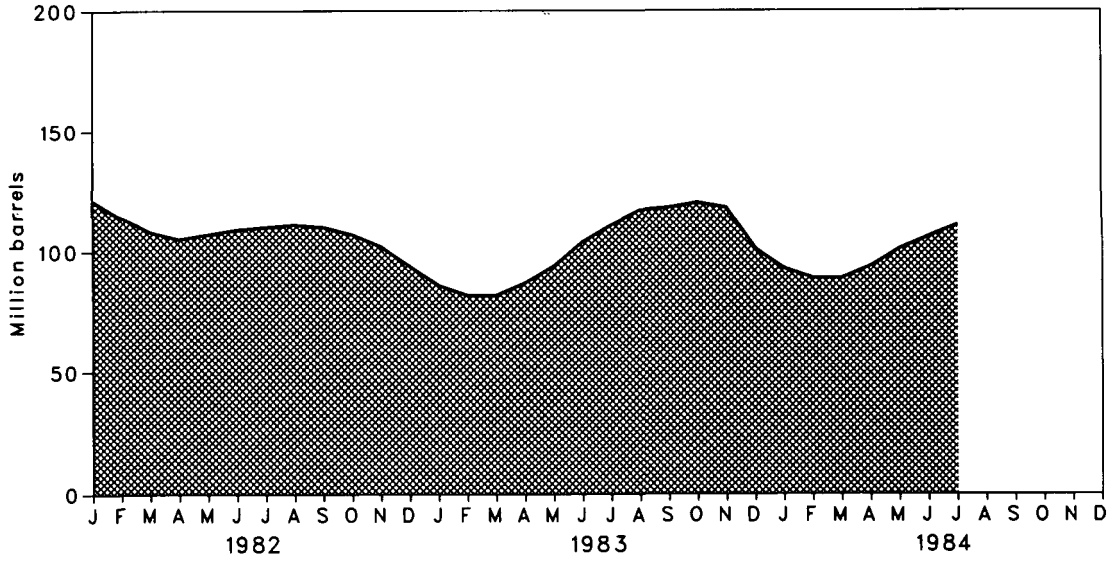
Petroleum

Liquefied Petroleum Gases

Product Supplied, Total Production, and Imports



Stocks



Petroleum

Liquefied Petroleum Gases[1] Supply and Disposition

		Supply			Disposition			Ending Stocks[2]
		Total Production	Imports	Stock Withdrawal[3]	Refinery Inputs	Exports	Product Supplied	
		Thousand barrels per day						Million barrels
1973	**AVERAGE**	**1,600**	**132**	**-35**	**220**	**27**	**1,449**	**99**
1974	**AVERAGE**	**1,565**	**123**	**-38**	**220**	**25**	**1,406**	**[4]113**
1975	**AVERAGE**	**1,527**	**112**	**[4]-35**	**246**	**26**	**1,333**	**125**
1976	**AVERAGE**	**1,535**	**130**	**24**	**260**	**25**	**1,404**	**116**
1977	**AVERAGE**	**1,566**	**161**	**-55**	**233**	**18**	**1,422**	**136**
1978	**AVERAGE**	**1,537**	**123**	**12**	**239**	**20**	**1,413**	**132**
1979	**AVERAGE**	**1,556**	**217**	**70**	**236**	**15**	**1,592**	**111**
1980	**AVERAGE**	**1,535**	**216**	**-27**	**233**	**21**	**1,469**	**[4]120**
1981	**AVERAGE**	**1,571**	**244**	**[4]-18**	**289**	**42**	**1,466**	**135**
1982	January	1,565	314	443	391	67	1,863	121
	February	1,466	291	243	327	51	1,621	114
	March	1,544	223	211	289	74	1,615	108
	April	1,506	188	98	257	77	1,458	105
	May	1,565	186	-71	234	43	1,403	107
	June	1,515	192	-86	262	106	1,254	109
	July	1,476	227	-13	253	37	1,399	110
	August	1,511	125	-45	254	61	1,276	111
	September	1,538	247	37	274	85	1,463	110
	October	1,517	194	97	306	81	1,421	107
	November	1,542	267	175	363	37	1,583	102
	December	1,580	258	256	395	56	1,642	[4]94
	AVERAGE	**1,528**	**226**	**111**	**300**	**65**	**1,499**	
1983	January	1,611	240	[4]520	313	118	1,939	86
	February	1,600	305	128	244	76	1,713	82
	March	1,543	166	-9	197	127	1,377	82
	April	1,607	124	-156	198	116	1,260	87
	May	1,613	167	-225	207	84	1,263	94
	June	1,664	172	-334	203	59	1,241	104
	July	1,656	191	-221	217	55	1,354	111
	August	1,586	160	-199	229	29	1,289	117
	September	1,705	178	-30	236	86	1,531	118
	October	1,688	160	-81	268	32	1,467	120
	November	1,785	180	70	362	33	1,640	118
	December	1,645	247	575	363	66	2,038	[4]101
	AVERAGE	**1,642**	**190**	**4**	**253**	**73**	**1,509**	
1984	January	1,610	269	[4]470	333	23	1,993	93
	February	1,690	237	146	323	41	1,708	89
	March	1,685	241	12	289	68	1,581	89
	April	1,711	155	-170	253	54	1,389	94
	May	1,709	211	-221	244	42	1,412	101
	June	1,714	158	-189	237	53	1,394	106
	July	1,750	132	-138	232	43	1,469	111
	AVERAGE	**1,695**	**200**	**-13**	**273**	**46**	**1,564**	

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

Petroleum

Other Petroleum Products[1] Supply and Disposition

		Supply			Disposition			Ending Stocks[2]
		Total Production	Imports	Stock Withdrawal[3]	Refinery Inputs	Exports	Product Supplied	
		Thousand barrels per day						Million barrels
1973	**AVERAGE**	**3,693**	**502**	**-9**	**750**	**166**	**3,270**	**208**
1974	**AVERAGE**	**3,558**	**432**	**-28**	**665**	**174**	**3,123**	**[4]218**
1975	**AVERAGE**	**3,424**	**277**	**[4]-2**	**537**	**160**	**3,002**	**219**
1976	**AVERAGE**	**3,643**	**206**	**-5**	**524**	**175**	**3,145**	**220**
1977	**AVERAGE**	**3,912**	**205**	**-27**	**514**	**165**	**3,410**	**230**
1978	**AVERAGE**	**4,046**	**166**	**14**	**492**	**167**	**3,568**	**225**
1979	**AVERAGE**	**4,153**	**195**	**-37**	**352**	**209**	**3,749**	**238**
1980	**AVERAGE**	**3,956**	**210**	**-23**	**311**	**198**	**3,634**	**[4]247**
1981	**AVERAGE**	**3,739**	**226**	**[4]46**	**723**	**199**	**3,088**	**282**
1982	January	3,171	269	-7	624	180	2,631	282
	February	3,403	305	-153	663	138	2,755	287
	March	3,466	243	-191	725	161	2,631	293
	April	3,408	309	73	796	204	2,790	290
	May	3,317	318	184	824	210	2,785	285
	June	3,547	315	123	812	216	2,954	281
	July	3,660	408	-1	856	187	3,023	281
	August	3,583	346	217	743	202	3,201	274
	September	3,533	375	105	749	213	3,051	271
	October	3,529	383	244	915	266	2,976	264
	November	3,498	423	-28	837	269	2,786	264
	December	3,324	313	366	885	275	2,842	[4]253
	AVERAGE	**3,453**	**334**	**80**	**787**	**211**	**2,869**	
1983	January	3,194	322	[4]-419	588	271	2,239	271
	February	3,229	321	12	673	232	2,658	270
	March	3,381	319	-147	572	249	2,732	275
	April	3,299	404	-24	592	247	2,840	276
	May	3,405	374	35	705	242	2,866	275
	June	3,610	444	96	717	292	3,144	272
	July	3,636	425	148	735	209	3,265	267
	August	3,695	482	30	668	242	3,297	266
	September	3,792	497	-6	788	236	3,255	266
	October	3,578	424	-107	711	195	2,990	270
	November	3,568	441	95	912	238	2,957	267
	December	3,123	479	361	883	257	2,823	[4]256
	AVERAGE	**3,460**	**411**	**6**	**712**	**242**	**2,923**	
1984	January	3,391	486	[4]-177	561	207	2,931	253
	February	3,582	586	-256	751	225	2,935	261
	March	3,510	466	-218	530	258	2,969	268
	April	3,584	582	-207	627	268	3,063	274
	May	3,683	642	-118	775	257	3,175	277
	June	3,863	521	404	1,229	343	3,213	265
	July	3,866	567	278	1,034	238	3,438	257
	AVERAGE	**3,639**	**550**	**-42**	**786**	**256**	**3,105**	

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

Notes and Sources for the Petroleum Section

Notes

1. During 1981 the listing (frame) of operators of all facilities required to complete each monthly survey was updated. The refinery frame was found to be complete and accurate, although the frames for bulk terminals, pipelines, and crude oil stocks facilities were found to be outdated. A variety of sources (published directories, listings, and exploratory surveys) were researched for potential new respondents. As a result of this research, a significant number of respondents were added to the frames. The increase in the respondents for the frames affects the stocks of crude oil and petroleum products. For further details, see the Energy Information Administration (EIA), *Petroleum Supply Monthly.*
2. Research conducted by the EIA in the latter half of 1980 indicated changes had taken place in the petroleum industry that were not being adequately reflected in the EIA survey forms. First, the flows of unfinished oils and the redesignation of finished products were not being accurately described on the EIA survey forms. Second, a substantial amount of motor gasoline was being produced at non-refinery "downstream blending stations" but was not being reported. Although empirical information is not available to precisely measure the historical effects, estimates of the magnitude of the differences in the major series affected are shown in the EIA, *Petroleum Supply Monthly.* Beginning in January 1981, the EIA modified its survey forms, changed definitions of gasoline (motor and aviation), and added the non-refinery blenders previously not reported.
3. **Motor Gasoline:** Beginning in January 1981, the EIA expanded its universe to include non-refinery blenders; redefined motor gasoline into two categories (finished leaded and finished unleaded); and separated blending components from finished motor gasoline as a reporting category. Also, survey forms were modified to describe refinery operations more accurately. For further details, see the EIA, *Petroleum Supply Monthly.*
4. **Distillate and Residual Fuel Oils:** The requirement to report crude oil burned on leases and pipelines as either distillate or residual fuel oil has been eliminated. Prior to January 1981, the refinery input of unfinished oils number typically exceeded the number for available supply of unfinished oils. This was assumed to be due to the redesignation of distillate and residual fuel oils received as such, but used as an unfinished oil input by the receiving refinery. This imbalance between supply and disposition of unfinished oils would then be subtracted from the production of distillate and residual fuel oils. Two-thirds of this difference was subtracted from distillate and one-third from residual. Beginning in January 1981, the EIA modified its survey forms to account for redesignated product and discontinued the above-mentioned adjustment. For further details, see the EIA, *Petroleum Supply Monthly.*
5. **New Stock Basis:** In January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported and stock withdrawal calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been:
•Crude Oil: 1982—645 (Total) and 351 (Other Primary).
•Crude Oil and Petroleum Products: 1974—1,121; 1980—1,420; and 1982—1,462.
•Motor Gasoline: 1974—225; 1980—263; 1982—244 (Total) and 203 (Finished).
•Distillate Fuel Oil: 1974—224; 1980—205; and 1982—186.
•Residual Fuel Oil: 1974—75; 1980—91; and 1982—68.
•Liquefied Petroleum Gases: 1974—113;1980—128; and 1982—103.
•Other Petroleum Products: 1974—220; 1980—249; and 1982—259.
•Stock withdrawal calculations beginning in 1975, 1981, and 1983, were made using new basis stock levels.

In January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream, which was formerly included in "Other Petroleum Products Supply and Disposition" table, is now reported on a component basis (ethane, propane, normal butane, isobutane and pentanes plus). Most of these stocks will now appear in the "Liquefied Petroleum Gases Supply and Disposition" table. This change will affect stocks reported and stock withdrawals in each table. Under new basis, end-of-year 1983 stocks, in million barrels would have been:
•Liquefied Petroleum Gases: 1983—108.
•Other Petroleum Products: 1983—248.
6. Stocks of Alaskan crude oil in transit were included for the first time in January 1981. The major impact of this change is on the reporting of stock withdrawal calculations. Using the expanded coverage (new basis), 1980 end-of-year stocks, in million barrels, would have been 488 (Total) and 380 (Other Primary).

Sources

• 1973 through 1976: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual."
• 1977 through 1980: Energy Information Administration (EIA), *Energy Data Reports*, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual" and unleaded gasoline data from *Monthly Petroleum Statistics Report.*
• January 1981 through December 1983: EIA, *Petroleum Supply Annual.*
• January 1983 through July 1984: Detailed statistics in appropriate issues of the *Petroleum Supply Monthly* (except domestic crude oil production).
• August 1984: Estimates based on EIA weekly data (except domestic crude oil production).
• January 1983 through August 1984: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey.

Natural Gas

Total dry natural gas production in the United States during July 1984 was an estimated 1.4 trillion cubic feet (Tcf). This was 13.0 percent higher than in July 1983. Output during the first 7 months of 1984 totaled 10.2 Tcf, 12.1 percent more than during the first 7 months of 1983.

Consumption of natural and supplemental gas in July 1984 was an estimated 1.2 Tcf, 9.0 percent higher than in July 1983. Estimated consumption during the first 7 months of 1984 totaled 10.6 Tcf, 8.4 percent higher than during the comparable 1983 period.

Deliveries to industrial consumers, the principal end users of natural and supplemental gas, during June 1984 (latest data available) were an estimated 431 billion cubic feet (Bcf). This was 38.5 percent of total June 1984 consumption and was 18.1 percent higher than in June 1983. Industrial consumption totaled 2,883 Bcf during the first 6 months of 1984, 17.8 percent higher than during the comparable 1983 period.

Imports of natural gas in July 1984 were an estimated 64 Bcf, 10.3 percent higher than in the previous July. During the first 7 months of 1984, imports of natural gas totaled an estimated 506 Bcf, 7.2 percent lower than during the comparable 1983 period. Receipts of foreign gas during July 1984 included Algerian liquefied natural gas (LNG) equivalent to approximately 3 Bcf.

Stocks of working gas* in underground natural gas storage reservoirs at the end of July 1984 totaled 2.5 Tcf. This was 8.9 percent below stocks available a year earlier. Net injections into storage during July 1984 were 313 Bcf, 29.3 percent higher than during the previous July.

*Gas available for withdrawal.

Natural Gas

Production Summary

		Gross Wet Gas Withdrawals[1]	Used for Repressuring[2]	Nonhydro-carbon Gas Removed[3]	Vented and Flared	Marketed Production (Wet)[4]	Extraction Loss[5]	Total Dry Gas Production[6]
					Billion cubic feet			
1973	**TOTAL**	**24,067**	**1,171**	**NA**	**248**	**[6]22,648**	**917**	**[6]21,731**
1974	**TOTAL**	**22,850**	**1,080**	**NA**	**169**	**[6]21,601**	**887**	**[6]20,713**
1975	**TOTAL**	**21,104**	**861**	**NA**	**134**	**[6]20,109**	**872**	**[6]19,236**
1976	**TOTAL**	**20,944**	**859**	**NA**	**132**	**[6]19,952**	**854**	**[6]19,098**
1977	**TOTAL**	**21,097**	**935**	**NA**	**137**	**[6]20,025**	**863**	**[6]19,163**
1978	**TOTAL**	**21,309**	**1,181**	**NA**	**153**	**[6]19,974**	**852**	**[6]19,122**
1979	**TOTAL**	**21,883**	**1,245**	**NA**	**167**	**[6]20,471**	**808**	**[6]19,663**
1980	**TOTAL**	**21,870**	**1,365**	**199**	**125**	**20,180**	**777**	**19,403**
1981	**TOTAL**	**21,587**	**1,312**	**222**	**98**	**19,956**	**775**	**19,181**
1982	January	1,865	108	19	9	1,728	71	1,657
	February	1,712	101	18	8	1,584	65	1,519
	March	1,816	115	19	7	1,675	69	1,606
	April	1,714	108	18	7	1,581	65	1,516
	May	1,692	117	17	7	1,552	64	1,488
	June	1,643	114	16	7	1,505	62	1,443
	July	1,667	119	15	7	1,526	63	1,463
	August	1,638	120	18	8	1,492	61	1,431
	September	1,570	116	16	6	1,431	59	1,372
	October	1,610	126	16	8	1,460	60	1,400
	November	1,621	119	18	9	1,476	61	1,415
	December	1,663	125	19	10	1,510	62	1,448
	TOTAL	**20,210**	**1,388**	**208**	**93**	**18,520**	**762**	**17,758**
1983	January	1,668	122	19	7	1,520	62	1,458
	February	1,471	108	16	6	1,340	55	1,285
	March	1,534	124	17	7	1,386	57	1,329
	April	1,453	120	16	7	1,310	54	1,256
	May	1,450	111	16	8	1,316	54	1,262
	June	1,399	118	19	7	1,256	52	1,204
	July	1,485	125	18	7	1,335	55	1,280
	August	1,537	124	20	7	1,386	57	1,329
	September	1,496	118	19	7	1,352	56	1,296
	October	1,572	122	18	7	1,425	59	1,366
	November	1,583	114	19	7	1,443	59	1,384
	December	1,733	116	21	8	1,588	65	1,523
	TOTAL	**18,381**	**1,421**	**218**	**85**	**16,657**	**685**	**15,972**
1984	January	1,845	119	22	7	1,697	70	1,627
	February	1,614	115	19	6	1,474	61	1,413
	March	1,659	112	21	7	1,520	62	1,458
	April	R1,636	R120	R19	7	R1,490	61	R1,429
	May	R1,630	R127	R20	7	R1,475	R61	R1,414
	June	*R1,589*	*R116*	*20*	*7*	*R1,446*	*R59*	*R1,387*
	July	*1,656*	*120*	*21*	*7*	*1,508*	*62*	*1,446*

[1]Gas withdrawn from gas and oil wells.
[2]Gas returned to formations for repressuring, pressure maintenance, and cycling.
[3]For definitions and further explanations, see Notes on the last two pages of this section.
[4]Equal to gross withdrawals minus volumes used for repressuring, volumes of nonhydrocarbon gases removed, and volumes vented and flared. See Note 2 on the last two pages of this section for further explanation.
[5]Equal to marketed production (wet) minus extraction loss.
[6]May include unknown quantities of nonhydrocarbon gases.
R=Revised data. NA=Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Italics denote estimated data. Data for 1973 through 1982 are final. All other data are preliminary unless otherwise indicated.
Sources: • See the last page of this section.

Natural Gas

Supply and Disposition of Dry Natural Gas and Supplemental Gaseous Fuels

		Supply					Disposition			
		Total Dry Gas Production	Withdrawals from Storage[1]	Supplemental Gaseous Fuels[2]	Imports[2]	Total Supply/ Disposition[3]	Additions to Storage[1]	Exports[2]	Consumption[2]	Unaccounted for[2]
		Billion cubic feet								
1973	**TOTAL**	**[4]21,731**	**1,533**	**NA**	**1,033**	**24,297**	**1,974**	**77**	**22,049**	**196**
1974	**TOTAL**	**[4]20,713**	**1,701**	**NA**	**959**	**23,373**	**1,784**	**77**	**21,223**	**289**
1975	**TOTAL**	**[4]19,236**	**1,760**	**NA**	**953**	**21,949**	**2,104**	**73**	**19,538**	**235**
1976	**TOTAL**	**[4]19,098**	**1,921**	**NA**	**963**	**21,983**	**1,756**	**65**	**19,946**	**216**
1977	**TOTAL**	**[4]19,163**	**1,750**	**NA**	**1,011**	**21,924**	**2,307**	**56**	**19,521**	**41**
1978	**TOTAL**	**[4]19,122**	**2,158**	**NA**	**966**	**22,245**	**2,278**	**53**	**19,627**	**287**
1979	**TOTAL**	**[4]19,663**	**2,047**	**NA**	**1,253**	**22,964**	**2,295**	**56**	**20,241**	**372**
1980	**TOTAL**	**19,403**	**1,972**	**155**	**985**	**22,515**	**1,949**	**49**	**19,877**	**640**
1981	**TOTAL**	**19,181**	**1,930**	**176**	**904**	**22,191**	**2,228**	**59**	**19,404**	**501**
1982	January	1,657	697	19	98	2,471	24	3	2,400	44
	February	1,519	461	16	85	2,081	51	5	1,984	41
	March	1,606	274	15	82	1,977	91	5	1,838	43
	April	1,516	112	12	72	1,712	185	2	1,485	40
	May	1,488	11	9	65	1,573	394	3	1,136	40
	June	1,443	11	9	61	1,524	364	6	1,115	39
	July	1,463	12	9	67	1,551	362	5	1,145	39
	August	1,431	36	9	61	1,537	342	6	1,151	38
	September	1,372	20	9	66	1,467	285	5	1,140	37
	October	1,400	62	11	77	1,550	197	5	1,311	37
	November	1,415	168	13	91	1,687	85	5	1,559	38
	December	1,448	299	14	110	1,871	88	5	1,739	39
	TOTAL	**17,758**	**2,165**	**145**	**933**	**21,001**	**2,472**	**52**	**18,001**	**475**
1983	January	1,458	450	16	112	2,036	24	5	1,968	39
	February	1,285	324	13	95	1,717	35	5	1,643	34
	March	1,329	266	13	86	1,694	58	5	1,596	35
	April	1,256	162	11	74	1,503	81	5	1,383	34
	May	1,262	41	9	61	1,373	189	5	1,145	34
	June	1,204	22	8	59	1,293	254	3	1,004	32
	July	1,280	25	9	58	1,372	267	5	1,066	34
	August	1,329	35	9	56	1,429	248	6	1,140	35
	September	1,296	27	9	67	1,399	259	4	1,101	35
	October	1,366	40	10	64	1,480	171	4	1,269	36
	November	1,384	160	12	80	R1,636	80	5	1,514	37
	December	1,523	602	17	107	2,249	31	5	2,172	R41
	TOTAL	**15,972**	**2,153**	**136**	**918**	**19,181**	**1,697**	**55**	**17,001**	**426**
1984	January	1,627	563	17	95	2,302	54	4	2,201	43
	February	1,413	300	14	70	1,797	62	4	1,693	38
	March	1,458	352	14	69	1,893	43	5	1,806	39
	April	R1,429	105	11	72	R1,617	152	5	R1,422	38
	May	R1,414	30	10	73	R1,527	258	6	R1,225	R38
	June	*R1,387*	21	9	R63	R1,480	320	4	R1,119	37
	July	*1,446*	28	10	64	1,548	342	5	1,162	39

[1]Monthly and annual data for 1980 through 1982 include underground storage and liquefied natural gas storage. All other data include underground storage only. Computation procedures are discussed in Note 8 on the last two pages of this section.
[2]For definitions and further explanations, see Notes on the last two pages of this section.
[3]Data for 1978 through 1982 do not include intransit receipts and deliveries.
[4]May include unknown quantities of nonhydrocarbon gases.
R=Revised data. NA=Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Italics denote estimated data. Data for 1973 through 1982 are final. All other data are preliminary unless otherwise indicated.
Sources: • See the last page of this section.

Natural Gas

Natural and Supplemental Gas Consumption

				Delivered to Consumers					
		Lease and Plant Fuel	Pipeline Fuel	Residential	Commercial[1]	Industrial	Electric Utilities	Total	Total Consumption
				Billion cubic feet					
1973	**TOTAL**	**1,496**	**728**	**4,879**	**2,597**	**8,689**	**3,660**	**19,825**	**22,049**
1974	**TOTAL**	**1,477**	**669**	**4,786**	**2,556**	**8,292**	**3,443**	**19,077**	**21,223**
1975	**TOTAL**	**1,396**	**583**	**4,924**	**2,508**	**6,968**	**3,158**	**17,558**	**19,538**
1976	**TOTAL**	**1,634**	**548**	**5,051**	**2,668**	**6,964**	**3,081**	**17,764**	**19,946**
1977	**TOTAL**	**1,659**	**533**	**4,821**	**2,501**	**6,815**	**3,191**	**17,329**	**19,521**
1978	**TOTAL**	**1,648**	**530**	**4,903**	**2,601**	**6,757**	**3,188**	**17,449**	**19,627**
1979	**TOTAL**	**1,499**	**601**	**4,965**	**2,786**	**6,899**	**3,491**	**18,141**	**20,241**
1980	**TOTAL**	**1,026**	**635**	**4,752**	**2,611**	**7,172**	**3,682**	**18,216**	**19,877**
1981	**TOTAL**	**928**	**642**	**4,546**	**2,520**	**7,128**	**3,640**	**17,834**	**19,404**
1982	January	104	79	866	444	669	238	2,217	2,400
	February	95	66	786	405	412	220	1,823	1,984
	March	100	61	602	322	506	247	1,677	1,838
	April	95	49	451	237	407	246	1,341	1,485
	May	93	38	233	139	375	258	1,005	1,136
	June	90	37	165	107	420	296	988	1,115
	July	91	38	138	101	424	353	1,016	1,145
	August	89	38	123	105	435	361	1,024	1,151
	September	86	38	136	105	482	293	1,016	1,140
	October	87	43	204	130	573	273	1,181	1,311
	November	88	52	372	218	603	226	1,419	1,559
	December	90	58	557	299	520	215	1,591	1,739
	TOTAL	**1,109**	**596**	**4,633**	**2,606**	**5,831**	**3,226**	**16,295**	**18,001**
1983	January	91	65	697	357	550	208	1,812	1,968
	February	80	54	673	349	310	177	1,509	1,643
	March	83	53	525	275	452	208	1,460	1,596
	April	78	46	449	231	376	203	1,259	1,383
	May	79	38	269	147	394	218	1,028	1,145
	June	75	33	176	107	365	248	896	1,004
	July	80	35	130	97	410	314	951	1,066
	August	83	38	119	99	449	352	1,019	1,140
	September	81	36	124	103	458	299	984	1,101
	October	85	42	195	130	566	251	1,142	1,269
	November	86	50	347	198	619	214	1,378	1,514
	December	95	72	[2]825	[2]438	523	219	2,005	2,172
	TOTAL	**996**	**562**	**4,530**	**2,530**	**5,472**	**2,912**	**15,443**	**17,001**
1984	January	102	73	[2]805	[2]404	602	215	2,026	2,201
	February	88	56	[2]580	[2]291	491	187	1,549	1,693
	March	91	60	611	312	526	206	1,655	1,806
	April	89	47	428	224	R414	220	R1,286	R1,422
	May	R88	R41	265	148	R419	264	R1,096	R1,225
	June	87	37	161	104	431	299	995	1,119

[1]Includes deliveries to local, State, and Federal agencies engaged in nonmanufacturing activities.
[2]Estimated on the basis of heating degree-day data obtained from the National Oceanic and Atmospheric Administration.
R=Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data for 1973 through December 1982 are final. All other data are preliminary unless otherwise indicated.
Sources: • See the last page of this section.

Natural Gas

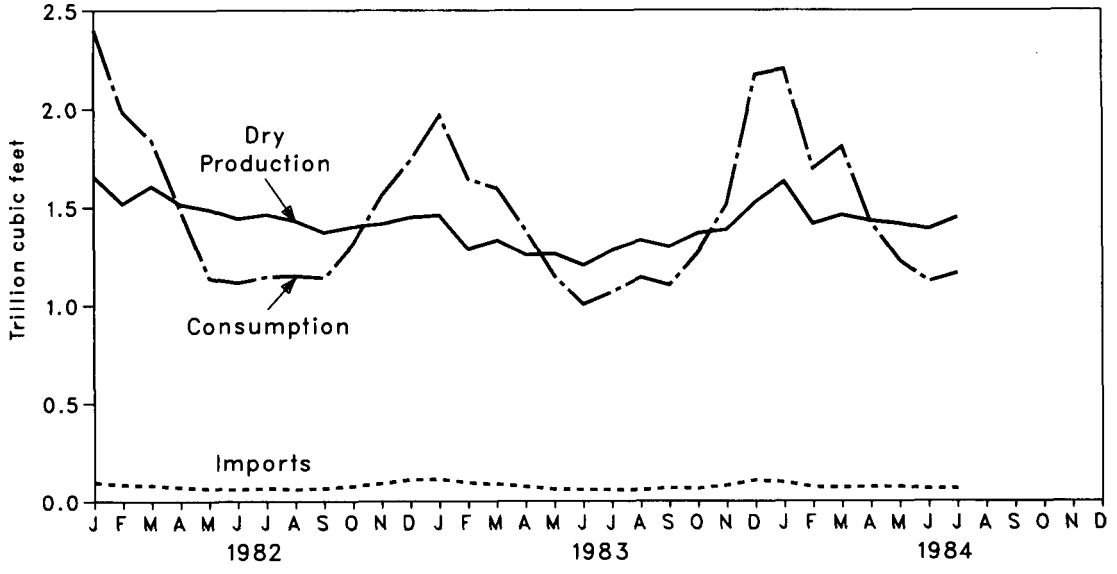
Underground Natural Gas Storage—All Operators

		Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
		Base Gas	Working Gas	Total[1]	Volume	Percent	Injections	Withdrawals	Net[2]
		Volumes in billion cubic feet							
1973	**TOTAL**	**2,864**	**2,034**	**4,898**	**305**	**17.6**	**1,974**	**1,533**	**441**
1974	**TOTAL**	**2,912**	**2,050**	**4,962**	**16**	**0.8**	**1,784**	**1,701**	**83**
1975	**TOTAL**	**3,162**	**2,212**	**5,374**	**162**	**7.9**	**2,104**	**1,760**	**344**
1976	**TOTAL**	**3,323**	**1,926**	**5,250**	**-286**	**-12.9**	**1,756**	**1,921**	**-165**
1977	**TOTAL**	**3,391**	**2,475**	**5,866**	**549**	**28.5**	**2,307**	**1,750**	**557**
1978	**TOTAL**	**3,473**	**2,547**	**6,020**	**72**	**2.9**	**2,278**	**2,158**	**120**
1979	**TOTAL**	**3,553**	**2,753**	**6,306**	**207**	**8.1**	**2,295**	**2,047**	**248**
1980	**TOTAL**	**3,642**	**2,655**	**6,297**	**-99**	**-3.6**	**1,896**	**1,910**	**-14**
1981	**TOTAL**	**3,752**	**2,817**	**6,569**	**162**	**6.1**	**2,180**	**1,887**	**293**
1982	January	3,751	2,182	5,932	29	1.4	24	673	-649
	February	3,750	1,787	5,536	-37	-2.0	50	446	-396
	March	3,766	1,604	5,370	-26	-1.6	88	265	-176
	April	3,778	1,676	5,454	-88	-5.0	180	108	73
	May	3,780	2,034	5,814	57	2.9	382	11	371
	June	3,778	2,369	6,147	117	5.2	353	11	342
	July	3,780	2,704	6,484	146	5.7	351	12	339
	August	3,781	2,998	6,778	116	4.0	332	35	298
	September	3,782	3,251	7,033	99	3.1	277	20	257
	October	3,785	3,364	7,149	116	3.6	191	60	131
	November	3,772	3,309	7,081	108	3.4	83	163	-80
	December	3,808	3,071	6,879	255	9.0	86	289	-204
	TOTAL						**2,399**	**2,094**	**306**
1983	January	3,813	2,644	6,457	462	21.2	24	450	-425
	February	3,811	2,356	6,167	569	31.9	35	324	-288
	March	3,812	2,148	5,959	544	33.9	58	266	-208
	April	3,818	2,074	5,893	398	23.8	81	162	-81
	May	3,818	2,222	6,041	188	9.3	189	41	148
	June	3,819	2,454	6,272	85	3.6	254	22	232
	July	3,826	2,696	6,522	-8	-0.3	267	25	242
	August	3,823	2,908	6,731	-89	-3.0	248	35	213
	September	3,823	3,140	6,964	-110	-3.4	259	27	232
	October	3,825	3,269	7,095	-94	-2.8	171	40	130
	November	3,841	3,174	7,015	-135	-4.1	80	160	-80
	December	3,847	2,595	6,442	-476	-15.5	31	602	-571
	TOTAL						**1,697**	**2,153**	**-456**
1984	January	3,847	2,090	5,937	-554	-20.9	54	563	-510
	February	3,828	1,876	5,704	-580	-20.4	62	300	-238
	March	3,824	1,572	5,395	-576	-26.8	43	352	-308
	April	3,822	1,620	5,442	-454	-21.9	152	105	47
	May	3,827	1,843	5,670	-379	-17.1	258	30	227
	June	3,828	2,141	5,969	-313	-12.7	320	21	299
	July	3,829	2,456	6,285	-240	-8.9	342	28	313

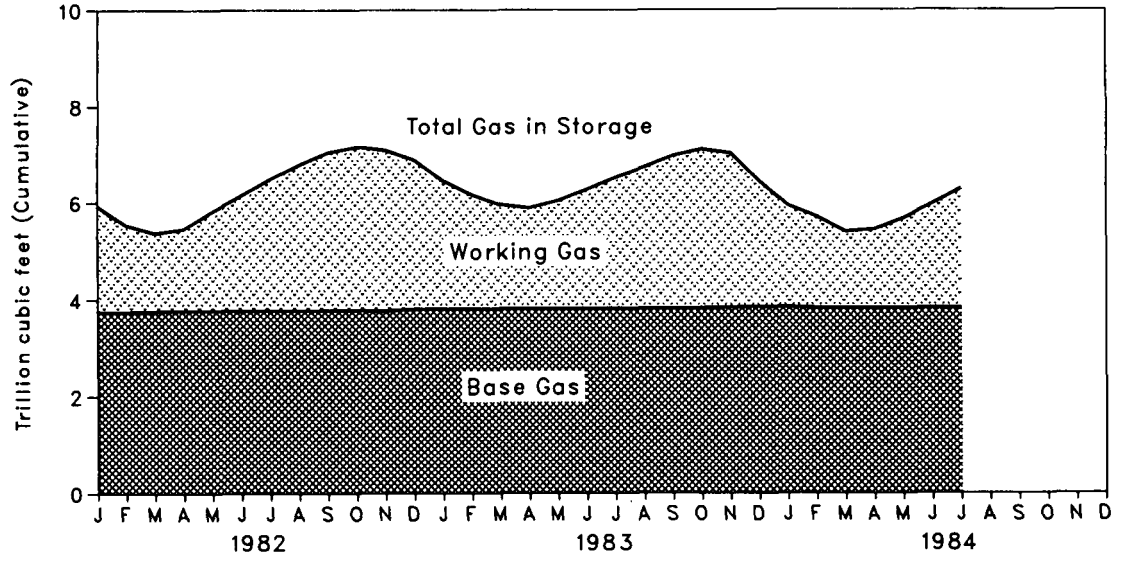
[1]Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1978—6,890; 1979—6,929; 1980—7,434; 1981—7,805; 1982—7,915; and 1983—7,985. Current total capacity is 8,043.
[2]Positive numbers indicate injections are greater than withdrawals. Negative numbers indicate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

Natural Gas

Consumption, Dry Production, and Imports



Gas in Storage



Notes and Sources for the Natural Gas Section

Notes

1. **Nonhydrocarbon Gases Removed:** Annual data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are from the EIA *Natural Gas Annual, 1982.* These data are not available for periods prior to 1980. For 1982, of the 31 producing States, 18 reported data on nonhydrocarbon gases removed. These 18 States accounted for 53 percent of total 1982 gross withdrawals. In addition, gross withdrawals data from two States, which together accounted for 40 percent of the 1982 total production, did not include all or most of the nonhydrocarbon gases removed on leases. No estimates are made for the two States not reporting nonhydrocarbon gases removed. For further information, see the Energy Information Administration (EIA) *Natural Gas Monthly.*

Monthly data are reported by two States and computed for four States. All monthly data are considered preliminary until after publication of the EIA *Natural Gas Annual* for the year in which the report month falls. Three States report monthly data on nonhydrocarbon gases removed; the rest of the data is estimated. For further informaton on methods of estimating preliminary monthly data, see the EIA *Natural Gas Monthly.*

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

2. **Production:** Annual data. Final annual data are from the Energy Information Administration (EIA) *Natural Gas Annual, 1982.*

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

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

Final monthly data. The difference between annual production data published in the EIA *Natural Gas Annual, 1982* and the sum of preliminary monthly data (January-December) is allocated proportionally to the preliminary monthly data.

3. **Extraction Loss:** Extraction loss is the reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

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

Preliminary monthly data are estimated based on extraction loss as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly extraction loss.

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

4. **Supplemental Fuels:** Supplemental gaseous fuels are mainly synthetic natural gas, propane-air, and refinery gas. Other gases may also be included. During 1982, coke oven gas, biomass gas, manufactured gas, and air injected for Btu stabilization were reported in this category.

Annual data beginning with 1980 are from the EIA *Natural Gas Annual, 1982.* Unknown quantities of supplemental gaseous fuels are included in consumption data for 1979 and earlier years.

All monthly data are considered preliminary until after the publication of the EIA *Natural Gas Annual* for the year in which the report month falls. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a monthy supplemental gaseous fuels figure.

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

Annual and final monthly data are published from the annual Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," which requires data to be reported by month for the calendar year.

Preliminary monthly data are EIA estimates. For a discussion of estimation procedures, see the EIA *Natural Gas Monthly.* Preliminary data are revised after the publication of the EIA *U.S. Imports and Exports of Natural Gas* for the calendar year in which the report month falls.

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

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

7. **Unaccounted For:** The "unaccounted for" category represents quantities lost, the net result of flow data metered at varying temperature and pressure conditions and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; and imbalances from EIA's merger of data reporting systems which vary in scope, format, definitions, and type of respondents. For additional explanatory information, see the EIA *Natural Gas Monthly.*

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

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

The final monthly and annual storage and withdrawal data for 1980 through 1982 include both underground and liquefied natural gas (LNG) storage. Underground storage data are taken from the FPC-8/EIA-191 survey in the following manner. Annual data on LNG additions and withdrawals are taken from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying it to annual LNG data.

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

Notes and Sources for the Natural Gas Section (continued)

Sources

Production: 1973 through 1982: Energy Information Administration (EIA), *Natural Gas Annual, 1982,* Appendix B; January 1983 forward: State reports to the Interstate Oil Compact Commission, data from the U.S. Minerals Management Service, and EIA estimates for States that do not report monthly data on a regular or timely basis.
Extraction Loss, Consumption, and Unaccounted For: 1973 through 1982: EIA, *Natural Gas Annual, 1982,* Appendix B; January 1983 forward: EIA computations.
Withdrawals from and Additions to Storage: 1973 through 1982: EIA, *Natural Gas Annual, 1982,* Appendix B; January 1983 forward: Form FPC-8 and Form EIA-191, "Underground Gas Storage Report."
Supplemental Gaseous Fuels: 1980 through 1982: EIA, *Natural Gas Annual, 1982,* Appendix B; January 1983 forward: EIA computations.
Imports and Exports: 1973 through 1982: Form FPC-14, "Imports and Exports of Natural Gas"; January 1983 forward: EIA computations.
End-Use Consumption: •All data except electric utility—1973 through 1982: EIA, *Natural Gas Annual, 1982,* Appendix B; January 1983 forward: EIA computations. •Electric utility data—EIA, Form 759, "Monthly Power Plant Report" (formerly Form FPC-4).
Underground Storage: 1973 and 1974: American Gas Association, *Gas Facts;* 1975 through 1979: EIA, Form FPC-8 and Form EIA-191, and the *Natural Gas Annual;* 1980 forward: EIA, From FPC-8, Form EIA-191, and Form 176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Part 5 Oil and Gas Resource Development

Oil and Gas Resource Development

The July 1984 rotary rig count of 2,386 was 17.0 percent higher than the July 1983 count of 2,039. The 206 rigs operating offshore were 16.5 percent lower than those working in July 1983.

In July 1984, the reported total number of wells drilled was 5,598, an increase of 2.6 percent from the 5,455 reported in July 1983. Oil well completions reported during July 1984 were 2,629, a 2.2-percent decrease from the comparable 1983 figure of 2,689. The 1,138 gas well completions reported in July 1984 were 1.0 percent more than the July 1983 figure of 1,127. The July 1984 reported footage drilled of 25.5 million feet was 10.8 percent more than the July 1983 figure of 23.0 million feet.

The 529 crews engaged in seismic exploration in July 1984 were 9.5 percent more than those in July 1983. The 482 land crews working in July 1984 were 10.3 percent more, and the 47 marine vessels working were 2.2 percent more, than those working during July 1983.

Oil and Gas Resource Development

		Rotary Rigs in Operation[1]		Exploratory and Development Wells Drilled[2]				Total Footage of Wells Drilled[2]
		Monthly average		Oil	Gas	Dry	Total	Thousand feet
1973	**AVERAGE**	**1,194**	**TOTAL**	**9,902**	**6,385**	**10,305**	**26,592**	**136,391**
1974	**AVERAGE**	**1,472**	**TOTAL**	**12,784**	**7,240**	**11,674**	**31,698**	**150,551**
1975	**AVERAGE**	**1,660**	**TOTAL**	**16,408**	**7,580**	**13,247**	**37,235**	**174,434**
1976	**AVERAGE**	**1,658**	**TOTAL**	**17,059**	**9,085**	**13,621**	**39,765**	**181,780**
1977	**AVERAGE**	**2,001**	**TOTAL**	**18,912**	**11,378**	**14,692**	**44,982**	**210,848**
1978	**AVERAGE**	**2,259**	**TOTAL**	**17,775**	**13,064**	**16,218**	**47,057**	**227,110**
1979	**AVERAGE**	**2,177**	**TOTAL**	**19,383**	**14,681**	**15,752**	**49,816**	**238,659**
1980	**AVERAGE**	**2,909**	**TOTAL**	**27,026**	**15,730**	**18,089**	**60,845**	**284,461**
1981	**AVERAGE**	**3,970**	**TOTAL**	**37,671**	**17,894**	**22,973**	**78,538**	**361,407**
1982	January	4,436		2,798	954	2,132	5,884	28,167
	February	4,160		3,036	1,430	2,234	6,700	31,985
	March	3,816		3,736	1,480	2,479	7,695	37,896
	April	3,460		3,674	1,530	2,287	7,491	36,439
	May	3,178		3,451	1,940	2,205	7,596	36,987
	June	2,908		3,888	1,891	2,521	8,300	38,962
	July	2,746		3,290	1,703	1,931	6,924	31,111
	August	2,620		2,865	1,588	1,917	6,370	28,836
	September	2,482		3,363	1,599	2,330	7,292	32,611
	October	2,402		2,833	1,210	2,125	6,168	27,274
	November	2,500		3,279	1,658	2,025	6,962	31,130
	December	2,696		4,087	1,970	2,363	8,420	34,648
	AVERAGE	**3,105**	**TOTAL**	**40,301**	**18,952**	**26,542**	**85,795**	**395,993**
1983	January	2,622		2,376	891	1,640	4,907	20,922
	February	2,192		2,885	1,184	2,211	6,280	27,659
	March	2,003		3,433	1,607	2,630	7,670	34,210
	April	1,846		3,031	1,403	1,979	6,413	27,423
	May	1,926		3,187	1,747	1,830	6,764	28,564
	June	1,979		3,523	1,242	2,113	6,878	28,154
	July	2,039		R2,689	R1,127	R1,639	5,455	R22,970
	August	2,156		2,641	1,075	1,533	5,249	22,582
	September	2,252		3,733	1,271	2,019	7,023	30,325
	October	2,382		2,970	1,211	1,699	5,880	24,887
	November	2,572		3,237	1,140	1,991	6,368	26,811
	December	2,780		3,470	1,699	2,201	7,370	30,942
	AVERAGE	**2,232**	**TOTAL**	**37,207**	**15,628**	**23,494**	**76,329**	**325,760**
1984	January	2,666		[2]3,253	[2]1,058	[2]2,004	[2]6,315	[2]27,915
	February	2,423		3,212	1,425	2,123	6,760	27,623
	March	2,245		4,092	1,373	2,941	8,406	34,156
	April	2,120		2,821	1,162	1,690	5,673	26,234
	May	2,277		3,137	1,155	1,637	5,929	26,417
	June	2,363		3,723	1,362	2,298	7,383	32,174
	July	2,386		2,629	1,138	1,831	5,598	25,454

[1]Monthly data are averages of 4- or 5-week reporting periods and are not calendar months.
[2]Data exclude service wells and stratigraphic and core tests. Prior to 1984, weekly data are aggregated into months within quarters using the following number of weeks in the 12 months—(4,4,5), (4,4,5), (4,4,5), and (4,4,5). In 1984, weekly data are aggregated into months differently to more closely represent the actual number of weeks in the calendar months—(5,4,5), (4,4,5), (4,5,4), and (4,5,4).
R = Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals reflect subsequent data revisions and therefore may not agree with cumulative monthly data.
Sources: • Rotary Rigs: Hughes Tool Company, "Rotary Rigs Running—By State."
• Wells and Footage Drilled: American Petroleum Institute, "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	**AVERAGE**	**30**	**370**	**400**	**193,212**	**163,929**	**357,141**
1980	**AVERAGE**	**37**	**493**	**530**	**202,694**	**184,088**	**386,782**
1981	**AVERAGE**	**44**	**637**	**681**	**338,201**	**256,201**	**594,402**
1982	January	53	642	695			
	February	53	625	678			
	March	52	597	649			
	April	55	571	626			
	May	61	551	612			
	June	69	546	615			
	July	66	527	593			
	August	62	500	562			
	September	59	476	535			
	October	51	465	516			
	November	50	452	502			
	December	49	428	477			
	AVERAGE	**57**	**531**	**588**	**558,464**	**248,483**	**806,947**
1983	January	49	407	456			
	February	47	404	451			
	March	45	402	447			
	April	39	410	449			
	May	39	410	449			
	June	43	428	471			
	July	46	437	483			
	August	49	435	484			
	September	57	444	501			
	October	50	448	498			
	November	49	446	495			
	December	48	445	493			
	AVERAGE	**47**	**426**	**473**	**469,227**	**188,457**	**657,684**
1984	January	50	427	477			
	February	53	433	486			
	March	47	424	471			
	April	50	423	473			
	May	46	444	490			
	June	45	455	500			
	July	47	482	529			

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

Coal

Coal production in July 1984 was 74.7 million short tons, 35.0 percent more than the 55.3 million short tons produced in July 1983.

Electric utility coal consumption in June 1984 totaled 56.9 million short tons, 13.1 percent more than consumption in June 1983. Coal consumption by electric utilities during the first half of 1984 totaled 321.0 million short tons, 12.3 percent more than during the first half of 1983.

Electric utility coal stocks of 172.9 million short tons at the end of June 1984 were 11.3 million short tons (6.1 percent) below the level 1 year earlier.

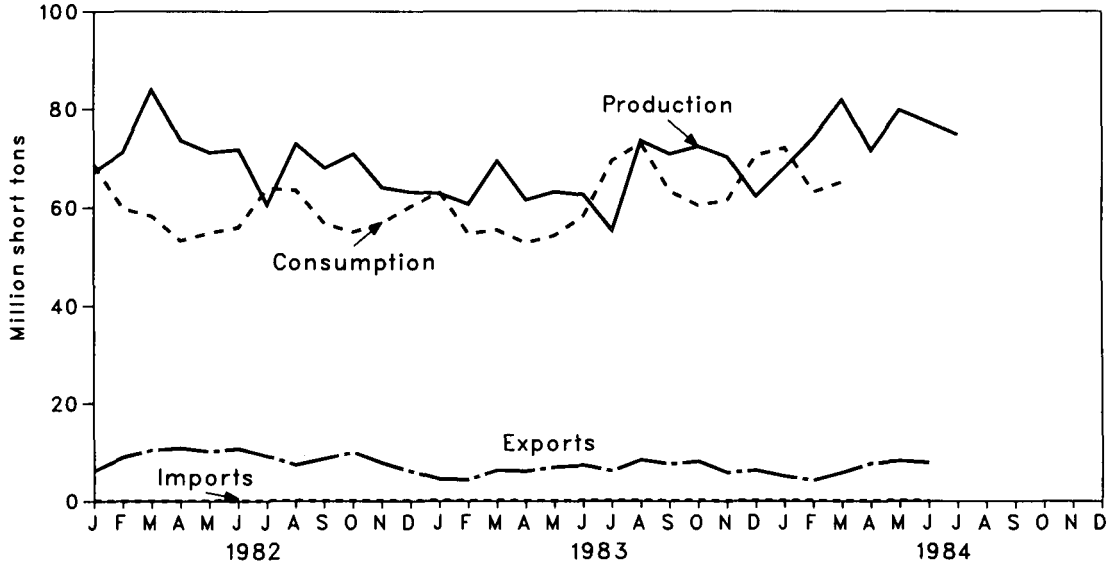
Imports of coal in June 1984 totaled 49 thousand short tons, 84 thousand short tons less than the amount imported in June 1983. Coal imports during the first half of 1984, totaling 545 thousand short tons, were 15.9 percent lower than during the first half of 1983.

Exports of coal in June 1984 totaled 7.8 million short tons, 7.5 percent more than exports during the previous June. Coal exports in June 1984 were principally to Europe (40.6 percent), Canada (32.1 percent), and Japan (17.0 percent). Coal exports during the first half of 1984 totaled 38.9 million short tons, 9.5 percent more than during the same period of 1983.

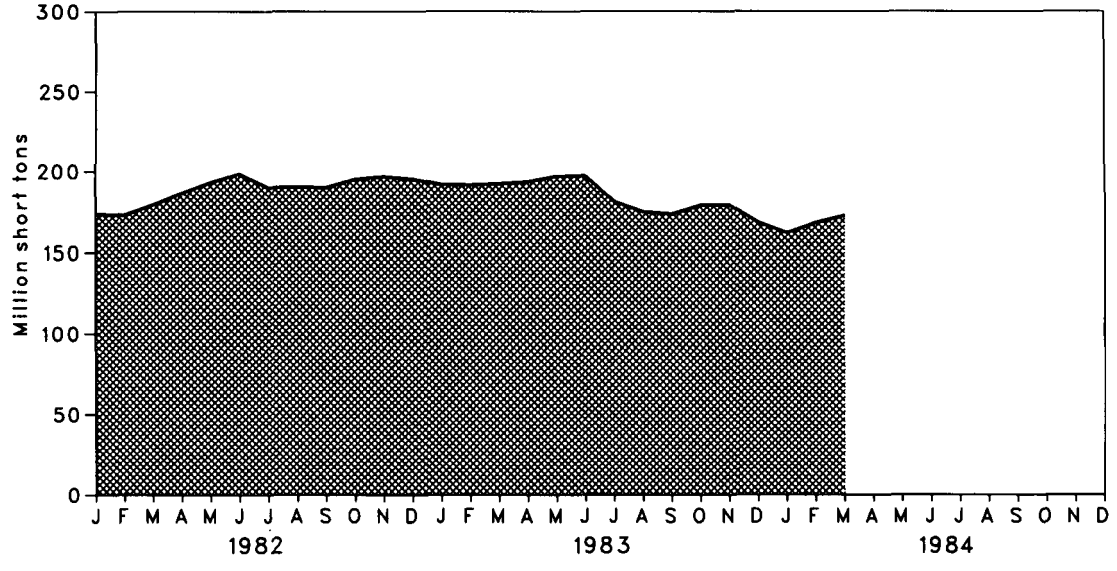
Coal

Overview

Production, Consumption, Imports, and Exports



Stocks



Coal

Overview

		Production	Consumption	Imports	Exports[1]	Stocks[2]
			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**	**40,714**	**145,551**
1979	**TOTAL**	**781,134**	**680,524**	**2,059**	**66,042**	**181,646**
1980	**TOTAL**	**829,700**	**702,729**	**1,194**	**91,742**	**204,028**
1981	**TOTAL**	**823,775**	**732,627**	**1,043**	**112,541**	**185,274**
1982	January	67,138	68,692	71	6,177	173,931
	February	71,169	59,746	30	8,964	173,193
	March	83,943	58,236	12	10,423	179,484
	April	73,587	53,274	10	10,831	186,458
	May	71,127	54,844	109	10,110	192,926
	June	71,720	55,950	9	10,680	198,377
	July	60,535	63,828	69	9,182	189,997
	August	72,898	63,528	131	7,385	190,310
	September	67,951	56,734	71	8,683	189,967
	October	70,852	55,034	66	9,972	195,107
	November	64,055	56,831	87	7,807	196,700
	December	63,136	60,214	76	6,064	195,254
	TOTAL	**838,112**	**706,911**	**742**	**106,277**	
1983	January†	62,839	63,019	78	4,471	191,902
	February†	60,683	54,692	71	4,382	191,574
	March†	69,413	55,434	120	6,291	192,315
	April†	61,554	52,816	144	6,115	193,402
	May†	63,239	54,327	102	6,952	196,982
	June†	62,585	58,237	133	7,279	197,033
	July†	*55,340*	*69,478*	*87*	*6,140*	*181,222*
	August†	73,512	72,947	115	8,380	175,067
	September†	70,824	63,317	97	7,525	173,743
	October†	72,372	60,454	190	8,131	179,166
	November†	70,247	61,411	32	5,838	179,281
	December†	62,257	70,541	102	6,269	168,654
	TOTAL†	**784,865**	**736,672**	**1,271**	**77,772**	
1984	January†	67,997	72,033	81	5,062	162,082
	February†	74,062	63,096	140	4,251	168,473
	March†	81,892	65,121	55	5,813	172,862
	April†	71,510	NA	148	7,688	NA
	May†	R79,804	NA	72	8,221	NA
	June†	R77,279	NA	49	7,828	NA
	July†	74,691	NA	NA	NA	NA

[1]Excludes shipments of anthracite to U.S. Armed Forces overseas (335,000 short tons in 1982 and 363,000 short tons in 1983).
[2]Stocks held by electric utilities, coke plants, and general industry at the end of period. Excludes stocks at retail dealers that are consumed by the residential and commercial sector.
†Preliminary data. R=Revised data. NA=Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• See Note on the last page of this section for methodology used to calculate production, consumption, and stocks.
Sources: • See the last page of this section.

Coal

Consumption by End-Use Sector

			Industrial			
		Electric Utilities	Coke Plants	Other Industrial[1] Including Transportation	Residential and Commercial	Total
				Thousand short tons		
1973	**TOTAL**	**389,212**	**94,101**	**68,154**	**11,117**	**562,584**
1974	**TOTAL**	**391,811**	**90,191**	**64,983**	**11,417**	**558,402**
1975	**TOTAL**	**405,962**	**83,598**	**63,670**	**9,410**	**562,641**
1976	**TOTAL**	**448,371**	**84,704**	**61,799**	**8,916**	**603,790**
1977	**TOTAL**	**477,126**	**77,739**	**61,472**	**8,954**	**625,291**
1978	**TOTAL**	**481,235**	**71,394**	**63,085**	**9,511**	**625,225**
1979	**TOTAL**	**527,051**	**77,368**	**67,717**	**8,388**	**680,524**
1980	**TOTAL**	**569,274**	**66,657**	**60,347**	**6,451**	**702,729**
1981	**TOTAL**	**596,797**	**61,014**	**67,395**	**7,421**	**732,627**
1982	January	56,825	4,444	6,430	993	68,692
	February	48,878	4,340	5,835	693	59,746
	March	47,884	4,173	5,616	563	58,236
	April	43,490	3,708	5,373	703	53,274
	May	45,622	3,622	5,133	467	54,844
	June	47,424	3,481	4,681	364	55,950
	July	55,248	3,121	4,831	628	63,828
	August	54,838	3,058	4,962	670	63,528
	September	48,414	2,924	4,759	637	56,734
	October	46,330	2,757	5,287	660	55,034
	November	47,799	2,693	5,494	845	56,831
	December	50,914	2,587	5,695	1,018	60,214
	TOTAL	**593,666**	**40,908**	**64,097**	**8,240**	**706,911**
1983	January†	53,351	2,813	5,970	884	63,019
	February†	45,772	2,742	5,405	773	54,692
	March†	47,110	2,567	5,206	551	55,434
	April†	43,589	3,206	5,254	767	52,816
	May†	45,691	3,151	5,023	463	54,327
	June†	50,338	2,734	4,798	367	58,237
	July†	60,390	3,269	5,220	599	69,478
	August†	63,767	3,252	5,362	566	72,947
	September†	54,212	3,196	5,156	752	63,317
	October†	50,689	3,307	5,659	799	60,454
	November†	51,185	3,335	6,046	845	61,411
	December†	59,117	3,461	6,880	1,082	70,541
	TOTAL†	**625,211**	**37,033**	**65,980**	**8,448**	**736,672**
1984	January†	60,224	3,791	6,942	1,076	72,033
	February†	52,257	3,592	6,305	942	63,096
	March†	54,534	3,843	6,072	672	65,121
	April†	47,553	NA	NA	NA	NA
	May†	49,507	NA	NA	NA	NA
	June†	56,923	NA	NA	NA	NA

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

Coal

Stocks by End-Use Sector at End of Period

		Electric Utilities	Industrial		Total[1]
			Coke Plants	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		**159,714**	**10,155**	**11,777**	**181,646**
1980		**183,010**	**9,067**	**11,951**	**204,028**
1981		**168,893**	**6,475**	**9,906**	**185,274**
1982	January	158,469	6,207	9,255	173,931
	February	158,136	5,909	9,148	173,193
	March	164,518	5,612	9,354	179,484
	April	171,390	5,931	9,137	186,458
	May	177,461	6,231	9,234	192,926
	June	182,513	6,532	9,331	198,377
	July	174,503	6,166	9,328	189,997
	August	175,194	5,800	9,316	190,310
	September	175,225	5,434	9,308	189,967
	October	180,571	5,171	9,365	195,107
	November	182,368	4,908	9,424	196,700
	December	181,132	4,642	9,479	195,254
1983	January†	178,604	4,338	8,960	191,902
	February†	179,101	4,034	8,439	191,574
	March†	180,671	3,728	7,916	192,315
	April†	181,371	4,089	7,942	193,402
	May†	184,567	4,450	7,965	196,982
	June†	184,236	4,812	7,985	197,033
	July†	168,566	4,489	8,167	181,222
	August†	162,557	4,165	8,345	175,067
	September†	161,384	3,842	8,518	173,743
	October†	166,574	4,010	8,582	179,166
	November†	166,457	4,178	8,645	179,281
	December†	155,598	4,346	8,710	168,654
1984	January†	148,723	4,947	8,412	162,082
	February†	154,811	5,548	8,114	168,473
	March†	158,897	6,149	7,816	172,862
	April†	164,597	NA	NA	NA
	May†	172,150	NA	NA	NA
	June†	172,949	NA	NA	NA

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

Notes and Sources for the Coal Section

Note

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

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

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

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

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

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

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

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

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

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

$$C_m = (C_{m3}/C_3) \times C \quad (3)$$

where C_{m3}/C_3 is the ratio of monthly to quarterly coal consumption as reported on Form EIA-3. For the 1978 coal consumption figures, the ratios used are based on 1978 EIA-3 data. For 1979 and subsequent years, the ratios used are based on the 1979 EIA-3 data. These 1979 ratios by month (January-December) are: 0.3593, 0.3264, 0.3143; 0.3485, 0.3332, 0.3183; 0.3317, 0.3407, 0.3276; and 0.3045, 0.3253, 0.3702.

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

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

Sources

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

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

- Electric Utilities—October 1977 forward: EIA, EIA Form 759 (formerly FPC Form 4), "Monthly Power Plant Report."
- Other Industrial—October 1977 through December 1979: EIA, EIA Form 3, "Monthly Fuel Consumption Report-Manufacturing Plants"; January 1980 forward: EIA, EIA Form 3, "Quarterly Fuel Consumption Report-Manufacturing Plants" and EIA Form 6, "Coal Distribution Report."
- Coke Plants—October 1977 through December 1980: EIA, EIA Form 5/5A, "Coke and Coal Chemicals-Monthly/Annual"; January 1981 forward: EIA, EIA Form 5/5A, "Coke and Coal Chemicals—Quarterly/Annual."
- Residential and Commercial—October 1977 through December 1979: EIA, EIA Form 2, "Monthly Coal Report, Retail Dealers and Upper Lake Docks"; January 1980 forward: EIA, EIA Form 6, "Coal Distribution Report."

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

Part 7 Electric Utilities

Electric Utilities

During June 1984, electric utilities generated 209.4 billion kilowatthours of electricity, 9.6 percent above the June 1983 generation level. Coal-fired generation totaled 115.3 billion kilowatthours, 13.6 percent above the June 1983 level. Hydroelectric generation totaled 28.7 billion kilowatthours, 6.4 percent below the June 1983 level. Natural gas-fired generation was 28.3 billion kilowatthours in June 1984, 22.7 percent above the June 1983 level. Nuclear generation was 25.1 billion kilowatthours, 4.0 percent above the level 1 year earlier. Petroleum-fired generation totaled 11.3 billion kilowatthours, 1.2 percent above the June 1983 level.

Sales of electricity to all ultimate consumers in the United States in June 1984 were 189.1 billion kilowatthours, 10.2 percent above June 1983 sales. Sales to residential consumers during June 1984 were 59.9 billion kilowatthours, 10.7 percent above the level of sales during the same month in 1983. Commercial sales were 49.4 billion kilowatthours, 9.6 percent more than the amount sold to commercial consumers in June 1983. Sales to industrial consumers totaled 73.0 billion kilowatthours in June 1984, 10.4 percent more than the 1983 figure. In June 1984, other sales totaled 6.7 billion kilowatthours, 7.8 percent above the June 1983 level.

Electric utility petroleum consumption (excluding petroleum coke) during June 1984 was 19.3 million barrels, 2.0 percent above the June 1983 level. Coal consumption during June 1984 was 56.9 million short tons, 13.1 percent above the June 1983 rate. During June 1984, electric utilities consumed 298.7 billion cubic feet of natural gas, 20.5 percent above the June 1983 consumption level.

On June 30, 1984, utility stocks of anthracite, bituminous coal, and lignite totaled 172.9 million short tons. Stockpiles were 6.1 percent below the level of June 30, 1983. Petroleum stocks (excluding petroleum coke) on June 30, 1984, totaled 87.8 million barrels, 13.6 percent below the level on the same date in 1983.

Electric Utilities

Net Electricity Generation by Primary Energy Source

		Coal	Petroleum[1]	Natural Gas	Nuclear	Hydro	Other[2]	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	**TOTAL**	**1,075,037**	**303,525**	**329,485**	**255,155**	**279,783**	**4,387**	**2,247,372**
1980	**TOTAL**	**1,161,562**	**245,994**	**346,240**	**251,116**	**276,021**	**5,506**	**2,286,439**
1981	**TOTAL**	**1,203,203**	**206,421**	**345,777**	**272,674**	**260,684**	**6,054**	**2,294,812**
1982	January	113,124	20,674	22,621	25,678	26,896	411	209,403
	February	96,906	15,217	20,920	20,188	26,690	380	180,299
	March	97,625	13,495	23,598	22,755	29,885	330	187,687
	April	88,116	11,192	23,231	21,785	27,928	328	172,580
	May	92,997	9,868	24,291	21,639	27,971	381	177,147
	June	95,314	10,419	27,959	24,026	27,953	458	186,128
	July	110,617	13,380	33,340	25,467	27,294	485	210,584
	August	110,124	11,753	34,418	24,986	23,894	480	205,656
	September	96,896	10,363	27,649	25,391	19,896	468	180,662
	October	93,769	9,885	25,804	23,248	19,750	509	172,966
	November	95,547	9,313	21,466	23,235	23,297	520	173,377
	December	100,970	11,238	19,963	24,376	27,760	415	184,722
	TOTAL	**1,192,004**	**146,797**	**305,260**	**282,773**	**309,213**	**5,164**	**2,241,211**
1983	January	108,164	12,880	19,721	25,073	29,235	506	195,579
	February	92,692	12,586	16,659	22,198	27,950	395	172,479
	March	95,598	12,556	19,686	23,890	30,302	455	182,488
	April	88,114	10,337	19,174	22,335	29,989	424	170,372
	May	91,296	9,050	20,445	22,051	31,194	356	174,392
	June	101,512	11,139	23,091	24,152	30,692	462	191,048
	July	121,560	14,710	29,615	25,602	28,113	565	220,165
	August	129,313	14,731	33,147	26,201	25,828	738	229,957
	September	108,868	11,299	28,040	25,007	21,712	678	195,604
	October	101,951	9,941	23,783	25,797	20,747	712	182,931
	November	103,225	9,229	20,169	25,010	24,678	637	182,949
	December	117,131	16,041	20,567	26,361	31,691	528	212,319
	TOTAL	**1,259,424**	**144,499**	**274,098**	**293,677**	**332,130**	**6,456**	**2,310,285**
1984	January	120,850	15,939	20,245	29,135	29,738	541	216,450
	February	104,706	10,079	17,835	28,340	27,901	637	189,498
	March	111,158	10,806	19,645	26,613	30,425	713	199,359
	April	97,538	7,452	21,197	24,109	29,948	688	180,934
	May	100,139	8,421	25,227	25,673	31,814	671	191,945
	June	115,304	11,274	28,344	25,117	28,735	651	209,425

[1]Includes fuel oil No. 2, No. 4, No. 5, No. 6, crude oil, kerosene, and petroleum coke.
[2]Includes only geothermal and wood and waste through 1982. Beginning in January 1983, also includes wind.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

Electric Utilities

Electricity Sales[1]

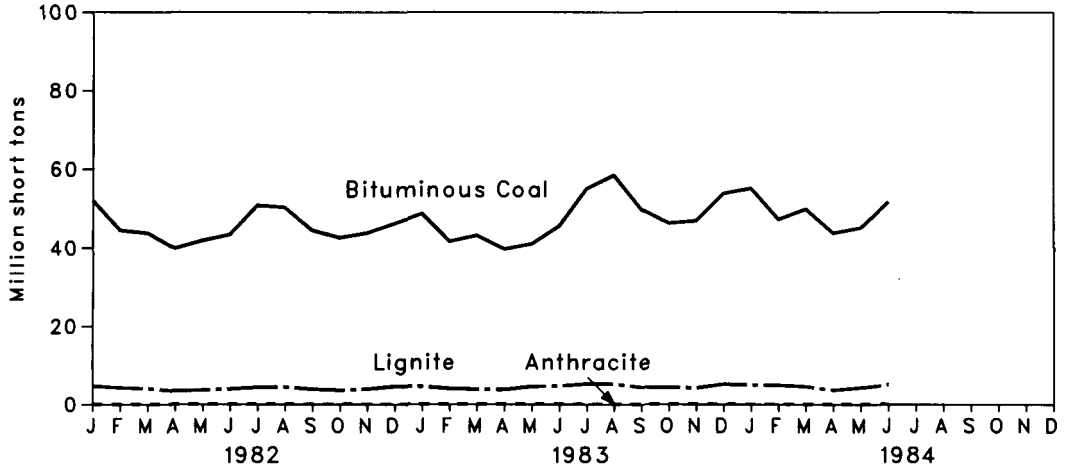
		Residential	Commercial	Industrial	Other[2]	Total
				Million kilowatt hours		
1973	**TOTAL**	**579,231**	**388,266**	**686,085**	**59,328**	**1,712,910**
1974	**TOTAL**	**578,184**	**384,826**	**684,875**	**58,039**	**1,705,924**
1975	**TOTAL**	**588,140**	**403,049**	**687,680**	**68,222**	**1,747,091**
1976	**TOTAL**	**606,452**	**425,094**	**754,069**	**69,631**	**1,855,246**
1977	**TOTAL**	**645,239**	**446,514**	**786,037**	**70,571**	**1,948,361**
1978	**TOTAL**	**674,466**	**461,163**	**809,078**	**73,215**	**2,017,922**
1979	**TOTAL**	**682,819**	**473,307**	**841,903**	**73,070**	**2,071,099**
1980	**TOTAL**	**717,495**	**488,156**	**815,067**	**73,732**	**2,094,449**
1981	**TOTAL**	**722,265**	**514,338**	**825,742**	**84,756**	**2,147,101**
1982	January	76,264	44,947	62,939	7,929	192,079
	February	69,128	43,459	62,778	7,441	182,805
	March	60,498	41,710	64,496	7,255	173,959
	April	54,918	40,036	62,723	6,836	164,512
	May	49,092	40,021	62,480	6,976	158,569
	June	54,083	44,206	63,684	6,766	168,739
	July	65,704	48,211	62,617	7,035	183,567
	August	69,906	49,720	63,306	6,808	189,740
	September	63,053	48,068	59,980	7,194	178,296
	October	52,638	42,864	60,830	7,084	163,416
	November	52,136	40,572	60,651	7,122	160,479
	December	62,102	42,584	58,464	7,128	170,278
	TOTAL	**729,519**	**526,397**	**744,949**	**85,575**	**2,086,440**
1983	January	69,967	44,019	57,938	7,252	179,176
	February	65,039	42,475	59,032	6,919	173,465
	March	58,912	41,518	60,261	6,893	167,584
	April	56,284	40,679	60,548	6,296	163,807
	May	49,669	40,305	62,729	6,216	158,919
	June	54,138	45,086	66,152	6,228	171,604
	July	69,965	51,013	66,424	6,752	194,153
	August	78,374	53,245	69,611	6,885	208,115
	September	73,197	52,147	69,618	6,960	201,922
	October	55,374	45,517	68,924	6,942	176,307
	November	53,704	42,666	67,544	6,560	170,474
	December	66,326	45,119	67,217	6,765	185,428
	TOTAL	**750,948**	**543,788**	**775,999**	**80,219**	**2,150,955**
1984	January	83,300	49,216	66,743	7,289	206,548
	February	69,776	45,840	66,604	6,638	188,857
	March	63,741	45,251	69,687	6,906	185,563
	April	56,373	43,052	69,049	6,452	174,927
	May	53,519	44,150	70,774	6,559	175,002
	June†	59,933	49,410	73,014	6,714	189,071

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

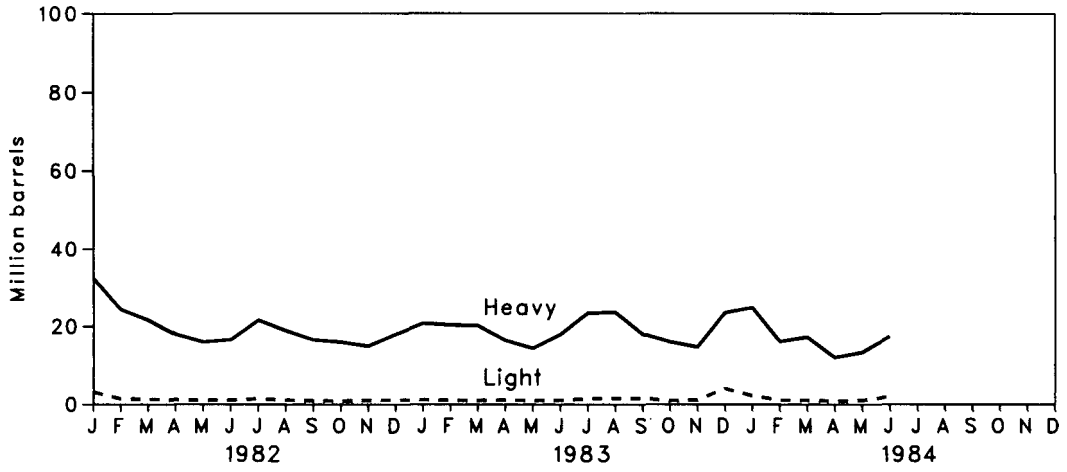
Electric Utilities

Primary Energy Consumed to Produce Electricity

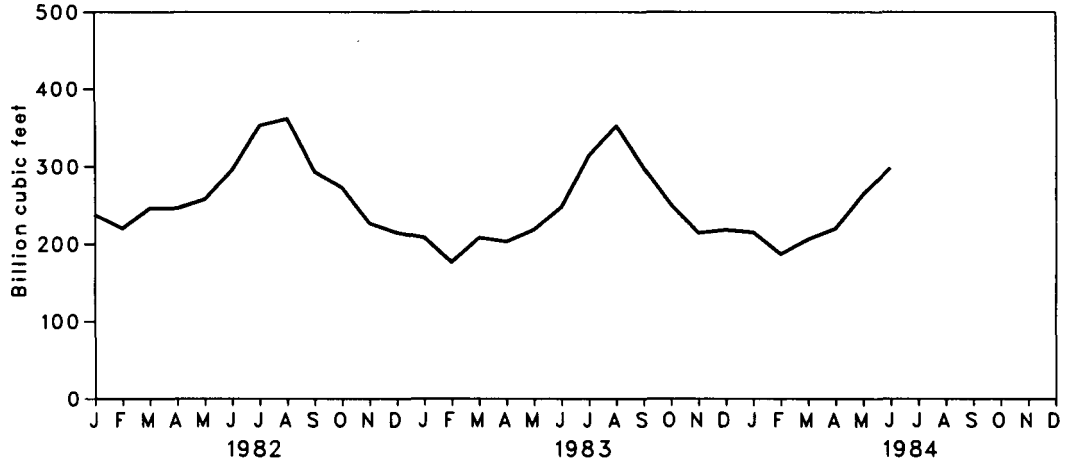
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



Electric Utilities

Primary Energy Consumed to Produce Electricity

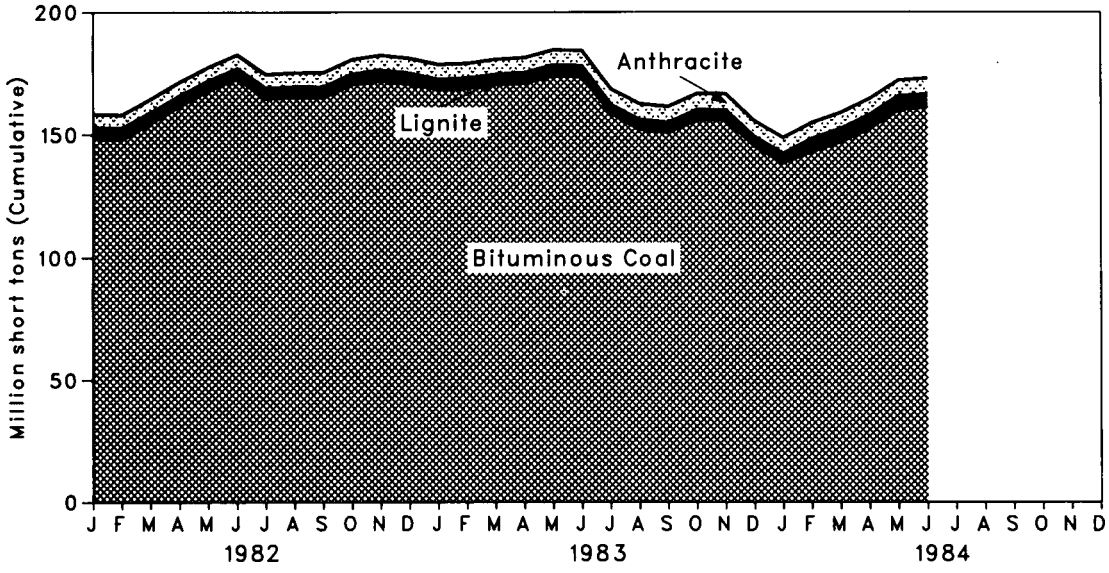
		Coal				Petroleum				Natural Gas
		Anthracite	Bituminous Coal	Lignite	Total	Heavy[1]	Light[2]	Total Liquids	Petroleum Coke	
		Thousand short tons				Thousand barrels			Thousand short tons	Million cubic feet
1973	**TOTAL**	**1,443**	**376,975**	**10,794**	**389,212**	**[3]**	**[3]**	**560,248**	**507**	**3,660,172**
1974	**TOTAL**	**1,498**	**378,643**	**11,670**	**391,811**	**[3]**	**[3]**	**536,274**	**625**	**3,443,428**
1975	**TOTAL**	**1,480**	**388,523**	**15,960**	**405,962**	**[3]**	**[3]**	**506,128**	**70**	**3,157,669**
1976	**TOTAL**	**1,350**	**425,205**	**21,817**	**448,371**	**[3]**	**[3]**	**555,920**	**68**	**3,080,868**
1977	**TOTAL**	**1,425**	**451,051**	**24,650**	**477,126**	**[3]**	**[3]**	**623,705**	**98**	**3,191,200**
1978	**TOTAL**	**1,064**	**448,763**	**31,407**	**481,235**	**[3]**	**[3]**	**635,839**	**398**	**3,188,363**
1979	**TOTAL**	**1,046**	**488,129**	**37,876**	**527,051**	**[3]**	**[3]**	**523,297**	**268**	**3,490,523**
1980	**TOTAL**	**951**	**526,680**	**41,642**	**569,274**	**391,163**	**29,051**	**420,214**	**179**	**3,681,595**
1981	**TOTAL**	**1,221**	**550,784**	**44,792**	**596,797**	**329,798**	**21,313**	**351,111**	**139**	**3,640,154**
1982	January	89	52,014	4,723	56,825	32,269	3,131	35,399	10	237,675
	February	83	44,478	4,317	48,878	24,351	1,421	25,772	9	220,032
	March	73	43,751	4,060	47,884	21,617	1,304	22,921	4	246,550
	April	88	39,888	3,515	43,490	17,913	1,132	19,045	11	246,344
	May	98	41,845	3,678	45,622	15,939	991	16,930	12	257,848
	June	94	43,340	3,990	47,424	16,539	1,053	17,592	13	295,557
	July	108	50,769	4,371	55,248	21,550	1,360	22,910	11	352,818
	August	95	50,283	4,460	54,838	18,873	1,053	19,926	13	361,351
	September	67	44,431	3,916	48,414	16,544	921	17,464	9	293,232
	October	81	42,598	3,650	46,330	15,990	870	16,860	17	273,003
	November	100	43,756	3,943	47,799	14,908	1,007	15,916	18	226,477
	December	99	46,192	4,622	50,914	17,940	1,094	19,035	22	214,630
	TOTAL	**1,075**	**543,346**	**49,245**	**593,666**	**234,434**	**15,337**	**249,771**	**149**	**3,225,518**
1983	January	73	48,695	4,583	53,351	20,728	1,110	21,838	17	208,341
	February	73	41,668	4,032	45,772	20,305	984	21,289	19	176,965
	March	75	43,165	3,870	47,110	20,174	945	21,119	16	208,013
	April	92	39,716	3,781	43,589	16,374	1,054	17,429	24	202,917
	May	104	41,002	4,585	45,691	14,360	937	15,297	30	218,184
	June	88	45,560	4,690	50,338	17,892	1,020	18,912	23	247,825
	July	89	55,082	5,219	60,390	23,383	1,433	24,815	25	314,357
	August	92	58,475	5,200	63,767	23,622	1,543	25,165	24	352,031
	September	86	49,745	4,381	54,212	18,021	1,507	19,529	25	298,517
	October	91	46,263	4,335	50,689	15,993	870	16,863	22	251,151
	November	86	46,883	4,216	51,185	14,690	1,075	15,766	17	214,275
	December	88	53,854	5,176	59,117	23,440	4,034	27,474	21	218,191
	TOTAL	**1,036**	**570,108**	**54,067**	**625,211**	**228,984**	**16,512**	**245,497**	**261**	**2,910,767**
1984	January	98	55,141	4,985	60,224	24,745	2,176	26,921	24	215,215
	February	75	47,279	4,904	52,257	16,099	1,065	17,165	21	187,322
	March	69	49,921	4,543	54,534	17,274	1,016	18,291	18	206,177
	April	83	43,767	3,703	47,553	11,971	835	12,806	22	220,009
	May	99	45,115	4,294	49,507	13,327	1,012	14,339	23	264,283
	June	102	51,709	5,112	56,923	17,363	1,927	19,289	23	298,674

[1]Heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils.
[2]Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.
[3]Prior to 1980, petroleum consumption data were not disaggregated by type of fuel. Disaggregation by prime mover type is provided in the last table of this section.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

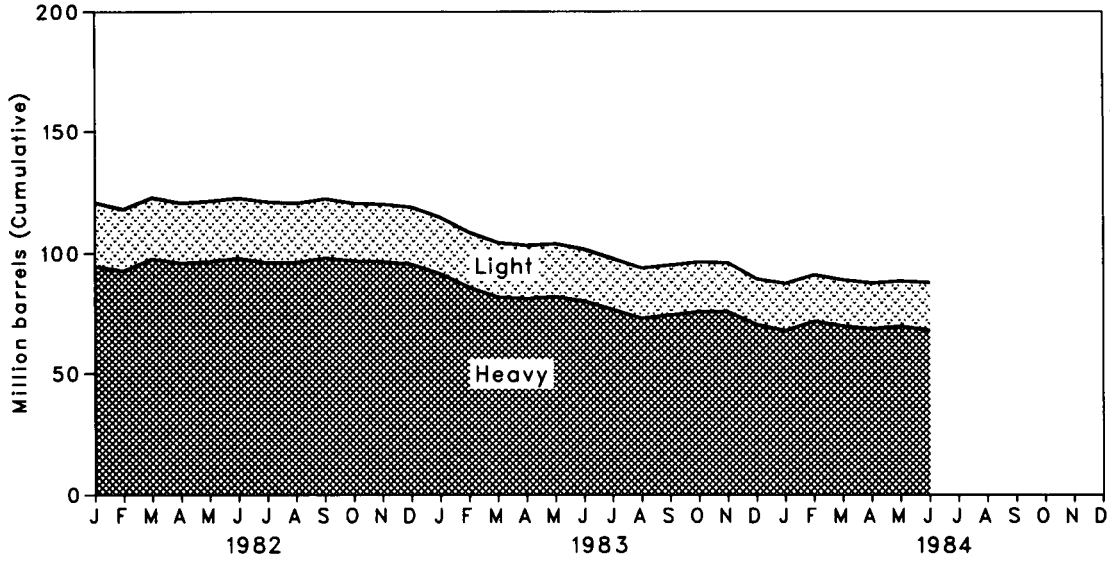
Electric Utilities

Coal and Petroleum Stocks at End of Period

Coal Stocks



Petroleum Stocks



Electric Utilities

Coal and Petroleum Stocks at End of Period

		Coal				Petroleum			
		Anthracite	Bituminous Coal	Lignite	Total	Heavy[1]	Light[2]	Total Liquids	Petroleum Coke
		Thousand short tons				Thousand barrels			Thousand short tons
1973		**1,066**	**84,941**	**961**	**86,967**	**([3])**	**([3])**	**89,216**	**312**
1974		**930**	**81,712**	**867**	**83,509**	**([3])**	**([3])**	**112,917**	**35**
1975		**982**	**107,927**	**1,815**	**110,724**	**([3])**	**([3])**	**125,257**	**31**
1976		**1,000**	**114,130**	**2,306**	**117,436**	**([3])**	**([3])**	**121,696**	**32**
1977		**2,321**	**128,210**	**2,688**	**133,219**	**([3])**	**([3])**	**144,031**	**44**
1978		**2,178**	**123,020**	**3,027**	**128,225**	**([3])**	**([3])**	**118,788**	**198**
1979		**3,274**	**152,981**	**3,459**	**159,714**	**([3])**	**([3])**	**131,422**	**183**
1980		**4,741**	**174,154**	**4,115**	**183,010**	**105,351**	**30,023**	**135,374**	**52**
1981		**5,537**	**158,258**	**5,098**	**168,893**	**102,042**	**26,094**	**128,136**	**42**
1982	January	5,437	148,404	4,628	158,469	94,609	26,162	120,771	39
	February	5,401	148,118	4,617	158,136	92,622	25,418	118,040	40
	March	5,488	154,724	4,305	164,518	97,706	25,136	122,842	43
	April	5,542	161,720	4,128	171,390	95,984	24,636	120,620	42
	May	5,569	167,805	4,088	177,461	96,607	24,796	121,403	41
	June	5,603	172,819	4,092	182,513	97,959	24,647	122,606	43
	July	5,658	164,688	4,157	174,503	96,085	25,008	121,093	43
	August	5,791	165,182	4,221	175,194	96,345	24,193	120,538	42
	September	5,896	165,065	4,264	175,225	98,160	24,225	122,385	47
	October	5,992	170,281	4,298	180,571	96,920	23,595	120,515	36
	November	6,060	171,832	4,476	182,368	96,618	23,553	120,171	42
	December	6,080	170,480	4,573	181,132	95,515	23,369	118,884	41
1983	January	6,107	168,287	4,210	178,604	91,523	23,183	114,706	54
	February	6,104	168,635	4,362	179,101	85,847	22,665	108,512	53
	March	6,143	170,327	4,201	180,671	81,957	22,387	104,344	54
	April	6,120	170,815	4,436	181,371	81,243	21,967	103,211	47
	May	6,145	173,969	4,453	184,567	82,091	21,758	103,849	44
	June	6,230	173,483	4,524	184,236	80,197	21,471	101,667	52
	July	6,299	158,701	3,566	168,566	76,881	21,101	97,982	50
	August	6,380	152,140	4,038	162,557	73,266	20,763	94,029	45
	September	6,435	150,778	4,171	161,384	74,560	20,696	95,256	47
	October	6,506	156,012	4,056	166,574	75,949	20,568	96,517	53
	November	6,531	155,931	3,995	166,457	75,930	20,271	96,201	63
	December	6,507	145,250	3,841	155,598	70,573	18,801	89,375	55
1984	January	6,500	138,346	3,877	148,723	68,049	19,390	87,439	43
	February	6,510	142,949	5,352	154,811	71,827	19,238	91,065	41
	March	6,519	146,879	5,500	158,897	69,882	19,056	88,937	45
	April	6,515	152,306	5,777	164,597	68,669	18,875	87,544	47
	May	6,532	159,963	5,656	172,150	69,787	18,674	88,461	51
	June	6,541	161,229	5,179	172,949	68,098	19,710	87,809	51

[1]Heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils.
[2]Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.
[3]Prior to 1980, petroleum stock data were not disaggregated by type of fuel. Disaggregation by prime mover type is provided in the last table of this section.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

Electric Utilities

Petroleum Consumption and Stocks by Prime Mover Type

		Petroleum Consumption			Petroleum Stocks at End of Period		
		Steam Plants	GT/IC[1]	Total Liquids	Steam Plants	GT/IC[1]	Total Liquids
		Thousand barrels					
1973	**TOTAL**	**513,190**	**47,058**	**560,248**	**79,121**	**10,095**	**89,216**
1974	**TOTAL**	**483,146**	**53,128**	**536,274**	**97,718**	**15,199**	**112,917**
1975	**TOTAL**	**467,221**	**38,907**	**506,128**	**108,825**	**16,432**	**125,257**
1976	**TOTAL**	**514,077**	**41,843**	**555,920**	**106,993**	**14,703**	**121,696**
1977	**TOTAL**	**574,869**	**48,837**	**623,705**	**124,750**	**19,281**	**144,031**
1978	**TOTAL**	**588,319**	**47,520**	**635,839**	**102,402**	**16,386**	**118,788**
1979	**TOTAL**	**492,606**	**30,691**	**523,297**	**111,121**	**20,301**	**131,422**
1980	**TOTAL**	**401,863**	**18,351**	**420,214**	**117,227**	**18,147**	**135,374**
1981	**TOTAL**	**339,680**	**11,431**	**351,111**	**112,380**	**15,756**	**128,136**
1982	January	33,832	1,567	35,399	105,475	15,296	120,771
	February	25,249	524	25,772	102,883	15,157	118,040
	March	22,371	550	22,921	108,142	14,699	122,842
	April	18,553	492	19,045	106,143	14,477	120,620
	May	16,614	316	16,930	106,701	14,702	121,403
	June	17,241	351	17,592	108,189	14,417	122,606
	July	22,192	718	22,910	106,170	14,923	121,093
	August	19,508	418	19,926	106,438	14,100	120,538
	September	17,146	318	17,464	108,177	14,208	122,385
	October	16,547	313	16,860	106,701	13,813	120,515
	November	15,591	325	15,916	106,361	13,809	120,171
	December	18,694	341	19,035	105,287	13,597	118,884
	TOTAL	**243,537**	**6,234**	**249,771**			
1983	January	21,373	465	21,838	101,394	13,312	114,706
	February	20,885	404	21,289	95,459	13,053	108,512
	March	20,728	392	21,119	91,394	12,750	104,344
	April	16,997	432	17,429	90,667	12,544	103,211
	May	14,968	330	15,297	91,360	12,489	103,849
	June	18,437	475	18,912	89,283	12,384	101,667
	July	23,927	888	24,815	85,891	12,091	97,982
	August	24,166	999	25,165	82,307	11,722	94,029
	September	18,532	996	19,529	83,511	11,745	95,256
	October	16,518	345	16,863	84,873	11,644	96,517
	November	15,336	430	15,766	84,804	11,397	96,201
	December	25,978	1,496	27,474	78,285	11,090	89,375
	TOTAL	**237,845**	**7,652**	**245,497**			
1984	January	25,838	1,082	26,921	76,188	11,251	87,439
	February	16,718	447	17,165	79,885	11,180	91,065
	March	17,881	410	18,291	77,905	11,032	88,937
	April	12,500	306	12,806	76,636	10,908	87,544
	May	13,896	442	14,339	77,548	10,913	88,461
	June	17,997	1,293	19,289	76,124	11,685	87,809

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

Part 8 Nuclear

Nuclear

During June 1984, U.S. nuclear powerplants generated a total of 25.1 billion net kilowatthours of electricity (kWhe), equivalent to an average hourly output of 34.9 million net kWhe. This was 1.1 percent above the average hourly generation for May 1984, and 4.0 percent above the comparable output for June 1983. Nuclear power supplied 12.0 percent of the electricity distributed in June 1984.

On June 11, Callaway-1, a 1,135-net-megawatts-electric (MWe) pressurized water reactor, operated by Union Electric Company in Missouri, was licensed by the Nuclear Regulatory Commission (NRC) for fuel-loading and low-power testing. On June 27, Susquehanna-2, a 1,065-net-MWe boiling water reactor, operated by Pennsylvania Power and Light Company, was licensed by the NRC for full-power operation.

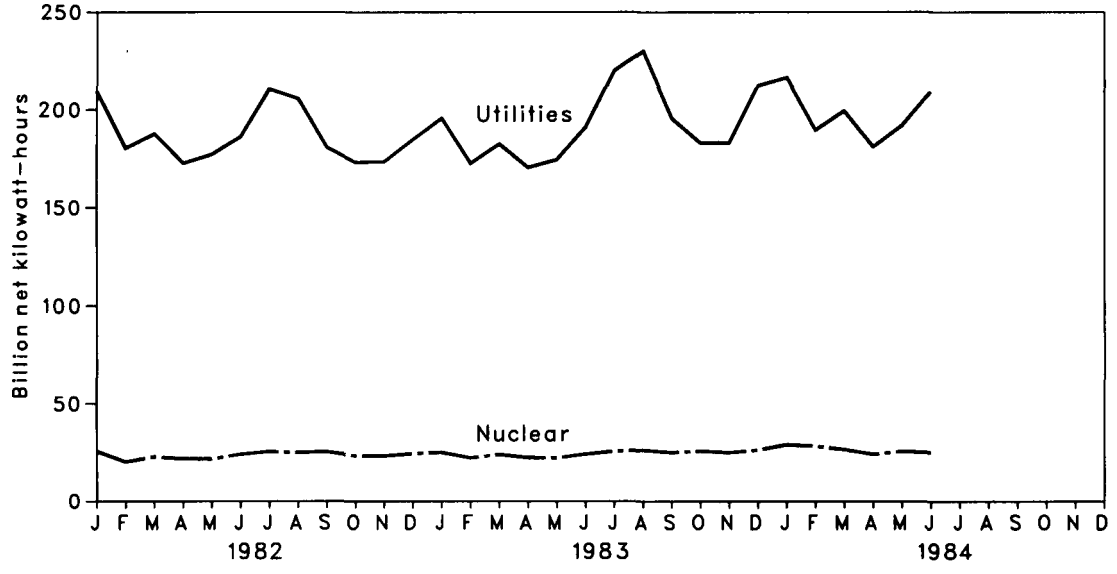
As of June 30, 1984, there were 83 operable U.S. nuclear power reactors, with a collective net generating capacity of 66.1 thousand MWe. Of these 83 operable reactors, 3 units were in power ascension (Susquehanna-2, LaSalle-2, and WNP-2), and 30 units generated no electricity or operated substantially below capacity in June (Big Rock Point, Browns Ferry-3, Brunswick-2, Calvert Cliffs-2, Cook-2, Dresden-3, Duane Arnold, Fort Calhoun, Fort St. Vrain, Hanford, Hatch-2, Indian Point-2, Maine Yankee, Millstone, Monticello, Nine Mile Point-1, North Anna-1, Oyster Creek, Palisades, Peach Bottom-2, Peach Bottom-3, Pilgrim, Quad Cities-1, Robinson-2, Salem-1, San Onofre-1, San Onofre-3, Three Mile Island-1, Trojan, and Zion-2). Three additional units were licensed by the NRC for fuel-loading and low-power testing (Callaway-1, Diablo Canyon, and Grand Gulf-1).

As of June 30, 1984, there were 134 domestic nuclear powerplants in all stages of planning, construction, and operation, with an aggregate design capacity of 125 thousand net MWe.

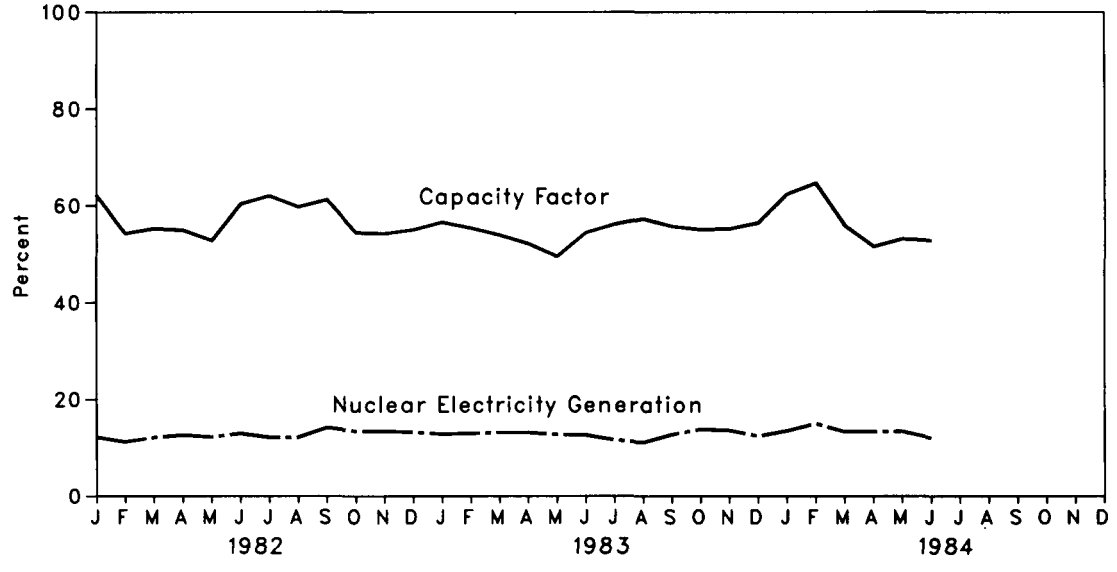
Nuclear

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

Nuclear Powerplant Operations

		Operable Reactors[1] [2]	Nuclear-Based Electricity Generation	Nuclear Portion of Domestic Electricity Generation	Maximum Dependable Capacity of Operable Reactors[1] [3]	Capacity Factor[4]
			Million net kilowatt hours	Percent	Million net kilowatts	Percent
1973		**39**	**83,479**	**4.5**	**22.900**	**52.9**
1974		**48**	**113,976**	**6.1**	**31.710**	**48.3**
1975		**54**	**172,505**	**9.0**	**33.312**	**59.7**
1976		**60**	**191,104**	**9.4**	**43.277**	**57.8**
1977		**65**	**250,883**	**11.8**	**46.046**	**64.1**
1978		**70**	**276,403**	**12.5**	**49.629**	**65.7**
1979		**68**	**255,155**	**11.4**	**49.326**	**58.7**
1980		**70**	**251,116**	**11.0**	**51.059**	**57.1**
1981		**74**	**272,674**	**11.9**	**55.534**	**58.4**
1982	January	74	25,678	12.2	55.481	62.2
	February	74	20,188	11.2	55.476	54.2
	March	74	22,755	12.1	55.421	55.2
	April	74	21,785	12.6	55.230	54.9
	May	74	21,639	12.2	55.230	52.7
	June	74	24,026	12.9	55.320	60.3
	July	74	25,467	12.1	55.195	62.0
	August	75	24,986	12.1	56.293	59.7
	September	76	25,391	14.1	57.600	61.2
	October	75	23,248	13.4	57.345	54.4
	November	77	23,235	13.4	59.531	54.2
	December	77	24,376	13.2	59.552	55.0
	YEAR	**77**	**282,773**	**12.6**	**59.552**	**57.2**
1983	January	77	25,073	12.8	59.532	56.6
	February	77	22,198	12.9	59.632	55.4
	March	77	23,890	13.1	59.632	53.9
	April	77	22,335	13.1	59.658	52.1
	May	78	22,051	12.7	59.883	49.5
	June	79	24,152	12.6	61.686	54.4
	July	79	25,602	11.6	61.230	56.2
	August	79	26,201	11.1	61.440	57.3
	September	80	25,007	12.7	62.227	55.8
	October	80	25,797	13.8	62.876	55.1
	November	80	25,010	13.6	62.809	55.3
	December	80	26,361	12.4	62.809	56.5
	YEAR	**80**	**293,677**	**12.6**	**62.809**	**54.8**
1984	January	80	29,135	13.5	62.772	62.4
	February	80	28,340	15.0	62.942	64.7
	March	81	26,613	13.3	64.036	55.9
	April	82	24,109	13.3	65.049	51.5
	May	82	25,673	13.4	64.986	53.1
	June	83	25,117	12.0	†66.091	†52.8

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

Nuclear

Status of Nuclear Reactor Units[1]

		Reactors Licensed for Operation		Construction Permits Granted	Construction Permits Pending	Reactor Units on Order	Reactor Units Announced	Total Reactor Units	Total Design Capacity[4]
		Operable[2]	In Startup[3]						Million net kilowatts
1973		**39**	**3**	**51**	**58**	**48**	**20**	**219**	**212**
1974		**48**	**5**	**58**	**80**	**28**	**16**	**235**	**234**
1975		**54**	**2**	**69**	**73**	**19**	**19**	**236**	**236**
1976		**60**	**1**	**72**	**66**	**16**	**19**	**234**	**236**
1977		**65**	**1**	**80**	**52**	**13**	**9**	**220**	**220**
1978		**70**	**0**	**90**	**32**	**9**	**4**	**205**	**204**
1979		**68**	**0**	**91**	**21**	**3**	**0**	**183**	**179**
1980		**70**	**2**	**82**	**12**	**3**	**0**	**169**	**163**
1981		**74**	**0**	**75**	**11**	**3**	**0**	**163**	**157**
1982	January	74	0	73	11	3	0	161	154
	February	74	1	72	6	2	0	155	147
	March	74	1	72	6	2	0	155	147
	April	74	2	71	6	2	0	155	147
	May	74	2	71	6	2	0	155	147
	June	74	2	70	6	2	0	154	147
	July	74	4	67	6	2	0	153	145
	August	75	4	64	5	2	0	150	141
	September	76	3	64	3	2	0	148	138
	October	75	3	64	3	2	0	147	138
	November	77	2	60	3	2	0	144	135
	December	77	2	60	3	2	0	144	135
1983	January	77	2	60	3	2	0	144	135
	February	77	2	60	3	2	0	144	135
	March	77	3	59	3	2	0	144	135
	April	77	4	57	3	2	0	143	134
	May	78	3	57	3	2	0	143	134
	June	79	2	57	3	2	0	143	134
	July	79	2	57	3	2	0	143	134
	August	79	2	57	3	2	0	143	134
	September	80	1	57	3	2	0	143	134
	October	80	1	56	2	2	0	141	133
	November	80	1	56	0	2	0	139	131
	December	80	3	53	0	2	0	138	129
1984	January	80	3	49	0	2	0	134	125
	February	80	3	49	0	2	0	134	125
	March	81	3	48	0	2	0	134	125
	April	82	3	47	0	2	0	134	125
	May	82	3	47	0	2	0	134	125
	June	83	3	46	0	2	0	134	125

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

Notes and Sources for the Nuclear Section

Notes

1. **Operable Reactors:** Units that have received Operating Licenses, completed low-power testing, and are authorized to operate at full power (i.e., in receipt of a Full Power Amendment) by the Nuclear Regulatory Commission (NRC), plus the Hanford-N reactor operated by the Department of Energy (DOE). The Hanford-N reactor, with a net capacity of 860 megawatts electric (MWe), is included, although it is not licensed by the NRC, because electricity produced from its output steam is distributed commercially. Similarly, the Shippingport reactor (net capacity of 60 Mwe) operated by DOE, was included prior to retirement from service on October 1, 1982, except for the interval from March 1974 through August 1977 when it was excluded because of a major core modification outage. The DOE-operated Experimental Breeder Reactor-2 (EBR-2) is not included because the electricity it generates is not distributed commercially. Five units, each of which has been inoperative for at least 4 years prior to January 1, 1984, are deleted from entries subsequent to their removal from service: Peach Bottom-1 (net capacity of 40 MWe) and Indian Point-1 (net capacity of 265 MWe), both out of service since November 1974; Humboldt Bay (net capacity of 65 MWe), down since August 1976 for major seismic modifications and subsequently officially retired; Dresden-1 (net capacity of 200 MWe), out of service since January 1979 for major modifications; and Three Mile Island-2 (net capacity of 906 MWe), whose core was severely damaged by a loss-of-coolant accident in March 1979. A sister unit, Three Mile Island-1 (net capacity of 819 MWe), continues to be listed as "Operable" because it could, in theory, return to service once the restraining order imposed by the NRC is lifted.
2. **In Startup:** Units that have received Operating Licenses authorizing fuel loading and low-power testing but have not received a Full Power Amendment from the NRC. Without the amendment, these units cannot distribute electricity commercially.
3. **Capacity:** Nuclear powerplants may have more than one type of net capacity rating including:
(a) Net Maximum Dependable Capacity (MDC)-The gross electrical output measured at the output terminals of the turbine generator(s) during the most restrictive seasonal conditions (usually summer) less the station service load. The typical station service load for a nuclear plant is about 5 percent of its gross generation.
(b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of the unit, specified by the utility and used for plant design.
4. **Monthly Capacity Factors:** The monthly capacity factors are computed as the actual monthly generation divided by the maximum possible generation for that month. The maximum possible generation is the number of hours in the month multiplied by the net monthly maximum dependable capacity. This fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are averages of the monthly values for that year.

Sources

Reactors Licensed for Operation: •Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors."
Electricity Generation: •1973 through September 1977—Federal Power Commission, Form 4, "Monthly Power Plant Report." •October 1977 through 1981—Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report." •1982 forward—Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."
Maximum Dependable Capacity: •Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors."
Capacity Factor: •Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels.
Reactor Construction and Planning Data: •1973 through June 1982—Compiled from various sources, primarily the Department of Energy, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones," Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors," and from the Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels. •July 1982 forward—Nuclear Regulatory Commission Report NUREG-0871, "Summary Information Report," Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors," and various trade journals.
Total Design Capacity: •Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0871, "Summary Information Report."

Price

Crude Oil

The average price of domestic crude oil purchased at the wellhead was $26.09 per barrel in June 1984. This was 0.3 percent above the previous month's level and 0.4 percent above the level in June 1983.

During June 1984, the composite refiner acquisition cost of crude oil was $28.77 per barrel, 0.2 percent below the previous month's price of $28.83. The price of imported crude oil decreased $0.07 per barrel from the May 1984 price to $29.19 per barrel in June. This was 0.1 percent below the June 1983 price. The price of domestic crude oil in June 1984 was $28.58, a decrease of $0.07 from the May 1984 average.

Motor Gasoline

The national city average retail price of leaded regular gasoline at all types of stations sold for an average of $1.13 per gallon in July, 1.6 percent lower than the price in June 1984. The price of unleaded regular gasoline at all types of stations was $1.21 per gallon in July, 1.4 percent lower than the price in the previous month. The price of unleaded premium gasoline averaged $1.37 per gallon in July, 0.5 percent lower than during June 1984.

Residual Fuel Oil

The average price, excluding taxes, of residual fuel oil sold to end users (utilities, industry, and other ultimate consumers) in June 1984 was $0.71 per gallon, 2.2 percent above the previous month's price and 9.7 percent above the June 1983 average. The average price, excluding taxes, of residual fuel oil sold for resale (to other-than-ultimate consumers) in June 1984 was $0.67 per gallon, 1.8 percent above the May 1984 average and 11.6 percent above the June 1983 average.

Aviation Fuel

The average price, excluding taxes, of aviation gasoline sold to end users in June 1984 was $1.25 per gallon, 0.6 percent above the price in the previous month but 0.7 percent below the price in June 1983. The average price, excluding taxes, of kerosene-type jet fuel sold to end users in June 1984 was $0.84 per gallon, down 0.8 percent from the previous month's price and down 2.1 percent from the price 1 year earlier.

No. 2 Distillate Fuel Oil

The national average price of heating oil sold to residential customers in June 1984 was $1.07 per gallon. This was 1.3 percent below the price in May 1984 but 0.9 percent above the June 1983 price. The average price for resale was $0.82 per gallon in June 1984, 1.7 percent above the price in June 1983.

Natural Gas

In May 1984, the average wellhead price of marketed natural gas production was $2.62 per thousand cubic feet (Mcf), $0.01 per Mcf less than the April 1984 price, but $0.06 per Mcf more than the May 1983 price. The average price of natural gas delivered to electric utility plants was $3.74 per Mcf in May 1984, up $0.19 per Mcf (5.4 percent) from both the April 1984 and May 1983 prices. The average price of natural gas used by residential consumers in July 1984 was $6.15 per Mcf, $0.04 more than in June 1984 but $0.04 per Mcf less than the July 1983 price.

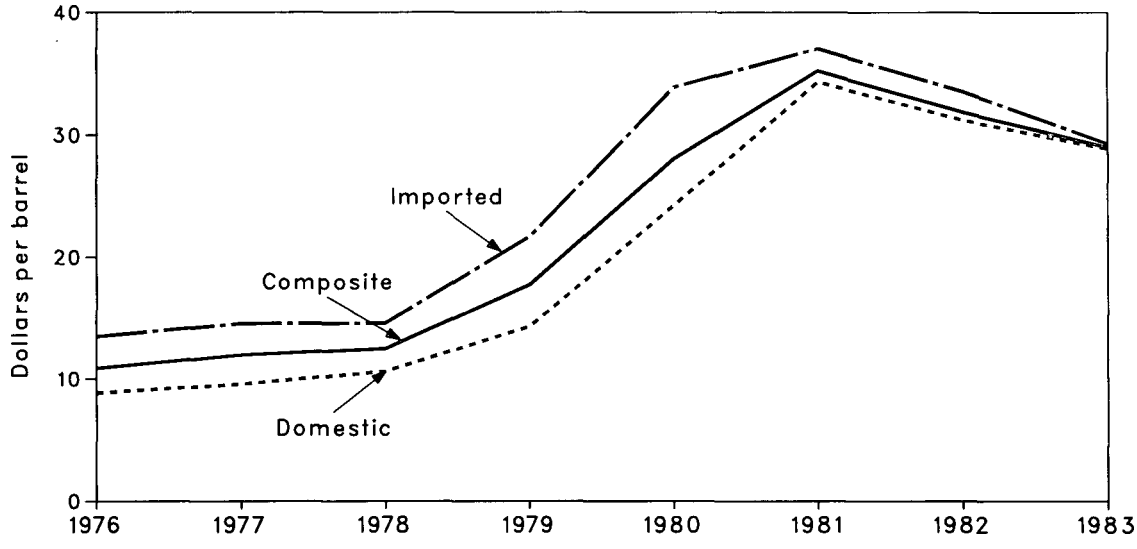
Electricity

The average retail price of electricity sold by selected privately owned utilities to residential consumers in June 1984 was 7.89 cents per kilowatthour (kWh), an increase of 4.1 percent from the previous month's average and 6.5 percent above the June 1983 price. The average price of electricity sold to commercial consumers was 7.48 cents per kWh in June 1984, a 2.7-percent increase compared to the May 1984 price and up 4.9 percent from the June 1983 price. The average electricity price to industrial users during June 1984 was 5.10 cents per kWh, an increase of 3.7 percent from the previous month's price and 2.8 percent more than during June 1983.

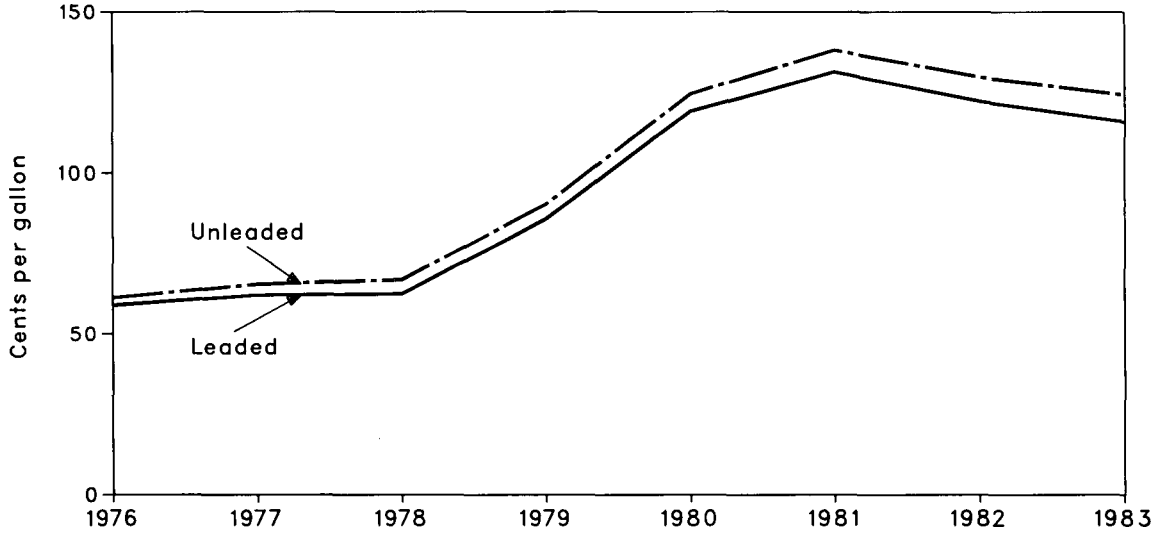
Price

Selected Petroleum Series

Refiner Aquisition Cost of Crude Oil



Regular Motor Gasoline Prices (Including Tax)



Price

Crude Oil Price Summary

		Actual Domestic Average Wellhead Price[1]	Average FOB Cost of Crude Oil Imports[2]	Average Landed Cost of Crude Oil Imports[3]	Refiner Acquisition Cost of Crude Oil[4]		
					Domestic	Imported	Composite
		Dollars per barrel					
1976	**AVERAGE**	**8.19**	**12.17**	**13.34**	**8.84**	**13.48**	**10.89**
1977	**AVERAGE**	**8.57**	**13.24**	**14.31**	**9.55**	**14.53**	**11.96**
1978	**AVERAGE**	**9.00**	**13.30**	**14.38**	**10.61**	**14.57**	**12.46**
1979	**AVERAGE**	**12.64**	**20.19**	**21.65**	**14.27**	**21.67**	**17.72**
1980	**AVERAGE**	**21.59**	**32.27**	**33.95**	**24.23**	**33.89**	**28.07**
1981	**AVERAGE**	**31.77**	**35.10**	**36.52**	**34.33**	**37.05**	**35.24**
1982	January	30.87	34.12	35.23	33.39	35.54	33.95
	February	29.76	33.60	34.63	32.71	35.48	33.40
	March	28.31	32.15	33.31	31.08	34.07	31.81
	April	27.65	31.65	32.77	30.27	32.82	30.83
	May	27.67	31.65	32.70	30.37	32.78	31.02
	June	28.11	32.31	33.47	30.79	33.79	31.74
	July	28.33	32.22	33.31	30.92	33.44	31.74
	August	28.18	31.33	32.34	30.85	32.95	31.45
	September	27.99	31.57	32.49	30.76	33.03	31.40
	October	28.74	32.02	33.01	31.38	33.28	31.98
	November	28.70	31.76	32.86	31.57	33.09	32.07
	December	28.12	31.19	32.32	30.80	32.85	31.29
	AVERAGE	**28.52**	**32.11**	**33.18**	**31.22**	**33.55**	**31.87**
1983	January	27.22	29.47	30.62	30.55	31.40	30.73
	February	26.41	27.79	29.08	29.16	30.76	29.49
	March	26.08	26.88	27.84	28.69	28.43	28.64
	April	25.85	27.18	28.24	28.45	27.95	28.33
	May	26.08	27.36	28.55	28.68	28.53	28.64
	June	25.98	27.71	29.00	28.67	29.23	28.85
	July	25.86	27.84	28.99	28.74	28.76	28.75
	August	26.03	27.89	29.22	28.58	29.50	28.88
	September	26.08	27.88	29.24	28.69	29.54	28.97
	October	26.04	27.84	29.08	28.88	29.67	29.14
	November	26.09	27.75	28.93	28.76	29.09	28.85
	December	25.88	27.50	28.58	28.62	29.30	28.83
	AVERAGE	**26.19**	**27.73**	**28.93**	**28.87**	**29.30**	**28.99**
1984	January	25.93	27.56	28.49	28.62	28.80	28.67
	February	26.06	27.78	28.89	28.76	28.91	28.81
	March	26.05	27.70	28.69	28.75	28.95	28.81
	April	25.93	27.84	28.91	28.63	29.11	28.77
	May	R26.00	R27.87	R28.94	28.65	29.26	28.83
	June	†26.09	†27.49	†28.61	28.58	29.19	28.77

The crude oil import price series have been added to this page. See the explanation beginning on page 106.

[1]See Note 1 in the Notes and Sources for this section.
[2]See Note 2 in the Notes and Sources for this section.
[3]See Note 3 in the Notes and Sources for this section.
[4]See Note 4 in the Notes and Sources for this section.
†Preliminary data. R=Revised data.
Note: • Geographic coverage is the 50 States and the District of Columbia, except for the refiner acquisition cost of crude oil, which is the 50 States, the District of Columbia, Puerto Rico, Guam, and the Virgin Islands.
Sources: • See the Notes and Sources for this section.

Price

FOB Cost of Crude Oil Imports from Selected Countries[1]

		Algeria	Indonesia	Iran	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela
					Dollars per barrel				
1976	**AVERAGE**	**13.05**	**12.76**	**11.61**	**NA**	**13.08**	**11.69**	**NA**	**11.32**
1977	**AVERAGE**	**14.36**	**13.57**	**12.67**	**13.42**	**14.44**	**12.37**	**NA**	**12.68**
1978	**AVERAGE**	**14.10**	**13.64**	**12.65**	**13.24**	**14.04**	**12.70**	**13.82**	**12.45**
1979	**AVERAGE**	**20.65**	**19.35**	**23.71**	**20.29**	**21.80**	**17.63**	**21.20**	**17.37**
1980	**AVERAGE**	**36.57**	**32.37**	**([2])**	**31.11**	**35.82**	**28.53**	**34.58**	**24.78**
1981	**AVERAGE**	**39.09**	**35.93**	**([2])**	**33.13**	**38.53**	**32.48**	**36.08**	**28.86**
1982	January	36.96	35.53	([2])	29.67	36.23	33.40	36.20	29.07
	February	35.56	35.59	([2])	30.92	35.92	33.50	34.00	28.94
	March	31.50	35.74	([2])	27.86	34.94	33.77	30.78	22.89
	April	30.54	35.69	([2])	26.96	33.80	33.49	32.49	21.89
	May	33.32	34.82	31.11	28.53	35.22	32.97	32.43	22.31
	June	34.72	35.95	W	28.18	35.18	33.80	33.67	22.25
	July	34.35	35.22	31.44	28.32	35.15	33.26	33.66	23.50
	August	33.03	35.63	31.17	27.67	35.13	32.63	33.17	20.71
	September	34.20	35.24	W	27.95	34.70	32.98	33.30	23.58
	October	34.26	35.25	W	27.82	35.05	33.54	33.93	22.93
	November	34.44	34.99	29.80	27.63	35.02	33.59	34.08	23.74
	December	34.86	34.73	29.09	27.63	33.18	34.04	33.21	26.21
	AVERAGE	**34.23**	**35.27**	**30.93**	**28.07**	**35.13**	**33.50**	**33.46**	**23.77**
1983	January	W	34.71	W	26.90	W	W	32.77	21.58
	February	W	33.74	W	25.69	W	W	30.95	21.82
	March	31.07	29.69	W	24.53	29.52	30.03	29.16	20.04
	April	29.37	29.57	W	24.18	29.63	W	30.07	20.05
	May	29.54	29.31	W	24.60	29.72	W	29.61	19.88
	June	29.80	29.59	W	24.13	29.57	W	28.92	20.80
	July	30.15	29.73	28.41	24.92	29.81	27.91	30.00	19.89
	August	30.32	29.60	28.19	25.15	29.92	27.83	29.88	21.56
	September	30.33	29.77	28.03	25.10	29.59	27.73	30.33	21.81
	October	29.98	29.81	28.29	25.72	30.23	28.24	29.73	23.58
	November	29.75	30.34	W	25.76	29.99	28.22	29.42	23.17
	December	W	29.77	28.30	26.20	29.60	27.18	29.05	24.17
	AVERAGE	**30.06**	**29.93**	**28.25**	**25.19**	**29.78**	**28.03**	**29.84**	**21.48**
1984	January	27.60	29.89	W	26.22	29.80	27.76	29.29	24.21
	February	28.56	29.09	W	26.04	29.98	26.72	29.70	23.55
	March	28.69	W	NA	26.30	29.89	28.39	29.95	23.86
	April	28.90	29.50	W	26.07	29.93	28.17	29.85	23.93
	May	R28.98	R29.44	W	R26.36	R29.67	27.43	R29.93	R24.07
	June†	28.54	W	NA	26.63	29.34	W	29.77	24.40

The price series for Libya and the United Arab Emirates have been deleted from this page. See the explanation beginning on page 106.

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

Price

Landed Cost of Crude Oil Imports from Selected Countries[1]

		Algeria	Canada	Indonesia	Iran	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela
						Dollars per barrel				
1975	**AVERAGE**	**12.72**	**12.72**	**13.79**	**12.21**	**NA**	**12.62**	**12.30**	**NA**	**11.65**
1976	**AVERAGE**	**13.81**	**13.57**	**13.82**	**12.82**	**NA**	**13.80**	**13.04**	**NA**	**11.80**
1977	**AVERAGE**	**15.20**	**14.21**	**14.63**	**13.80**	**13.75**	**15.25**	**13.61**	**NA**	**13.13**
1978	**AVERAGE**	**14.91**	**14.50**	**14.64**	**13.88**	**13.54**	**14.86**	**13.92**	**NA**	**12.83**
1979	**AVERAGE**	**21.90**	**20.43**	**20.69**	**25.02**	**20.86**	**22.96**	**19.15**	**22.16**	**18.18**
1980	**AVERAGE**	**37.90**	**30.47**	**33.92**	**(2)**	**31.80**	**37.05**	**30.02**	**35.88**	**25.86**
1981	**AVERAGE**	**40.49**	**32.16**	**37.57**	**(2)**	**33.78**	**39.70**	**34.19**	**37.24**	**29.87**
1982	January	38.19	31.05	36.88	(2)	30.21	37.37	34.44	36.78	29.82
	February	37.09	28.80	36.81	(2)	31.47	37.06	34.51	35.04	30.09
	March	32.25	26.71	37.17	(2)	28.69	35.81	34.92	31.35	23.92
	April	31.66	24.86	36.87	(2)	27.58	34.82	34.80	33.19	23.09
	May	34.24	24.90	36.50	32.01	29.18	36.06	34.28	33.22	23.44
	June	35.41	24.63	37.35	W	28.76	36.15	35.20	34.41	23.43
	July	35.26	26.62	37.04	32.08	28.95	36.19	35.04	34.67	24.61
	August	33.87	26.40	36.81	31.84	28.19	36.16	34.28	33.88	21.90
	September	34.88	26.52	36.65	W	28.50	35.56	34.45	34.01	24.53
	October	35.41	26.91	36.83	33.28	28.22	35.98	35.21	34.56	23.90
	November	35.82	26.78	36.49	32.66	28.17	36.04	35.41	34.74	24.91
	December	35.70	27.35	36.19	32.73	28.19	34.54	36.43	34.05	27.09
	AVERAGE	**35.28**	**26.92**	**36.75**	**32.40**	**28.64**	**36.17**	**35.00**	**34.28**	**24.82**
1983	January	33.20	27.62	36.12	W	27.50	W	W	33.48	23.20
	February	32.17	26.19	35.07	W	26.15	32.24	W	33.33	23.36
	March	31.24	24.78	31.17	W	25.06	30.49	31.63	29.92	21.48
	April	30.55	24.35	31.14	W	24.65	30.63	W	30.84	21.45
	May	30.48	24.32	30.82	W	25.17	30.75	W	30.60	21.24
	June	30.88	24.88	31.40	29.10	24.81	30.56	W	30.02	22.07
	July	31.36	25.45	31.46	30.06	25.34	30.91	29.53	30.86	21.30
	August	31.85	25.45	31.65	29.57	25.80	31.21	29.39	30.83	22.82
	September	31.78	25.71	31.27	29.31	25.66	30.70	29.53	31.39	23.12
	October	30.97	26.01	31.14	29.73	26.44	31.16	29.98	30.79	24.75
	November	30.96	25.83	31.30	W	26.29	31.02	29.88	30.33	24.68
	December	30.23	26.69	31.12	28.57	26.88	30.57	28.83	30.00	24.91
	AVERAGE	**31.26**	**25.63**	**31.57**	**29.81**	**25.78**	**30.84**	**29.76**	**30.87**	**22.94**
1984	January	29.19	26.44	31.22	W	26.85	30.62	29.67	30.09	25.28
	February	29.73	26.40	30.91	W	26.73	31.29	28.38	30.77	25.21
	March	30.31	26.01	30.81	NA	26.92	30.93	30.20	30.98	24.75
	April	29.81	26.10	31.02	W	26.68	31.08	29.95	30.73	24.86
	May	R29.96	27.12	R30.80	W	R26.92	R30.96	28.95	R30.75	R24.93
	June†	29.85	25.92	W	NA	27.31	31.05	29.84	30.65	25.42

The price series for Libya and the United Arab Emirates have been deleted from this page. See the explanation beginning on page 106.

[1]See Note 3 in the Notes and Sources for this section.
[2]No crude oil was imported.
†Preliminary data. R=Revised data. NA=Not available. W=Value withheld to avoid disclosure of company data.
Note: • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. Annual averages are the weighted average of the 12 monthly prices including those prices that were not published.
Sources: • See the Notes and Sources for this section.

Price

U.S. City Average Retail Prices for Motor Gasoline[1]

		Leaded Regular	Unleaded Regular	Unleaded Premium	Average for All Types[2]
		Cents per gallon, including tax			
1974	**AVERAGE**	**53.2**	**NA**	**NA**	**NA**
1975	**AVERAGE**	**56.7**	**NA**	**NA**	**NA**
1976	**AVERAGE**	**59.0**	**61.4**	**NA**	**NA**
1977	**AVERAGE**	**62.2**	**65.6**	**NA**	**NA**
1978	**AVERAGE**	**62.6**	**67.0**	**NA**	**65.2**
1979	**AVERAGE**	**85.7**	**90.3**	**NA**	**88.2**
1980	**AVERAGE**	**119.1**	**124.5**	**NA**	**122.1**
1981	**AVERAGE[3]**	**131.1**	**137.8**	**147.0**	**135.3**
1982	January	128.5	135.8	146.6	134.1
	February	126.0	133.4	144.8	131.8
	March	120.6	128.4	140.8	126.8
	April	114.8	122.5	135.1	121.0
	May	116.6	123.7	135.5	122.4
	June	124.2	130.9	141.8	129.6
	July	126.3	133.1	144.3	131.8
	August	125.4	132.3	143.9	131.0
	September	123.6	130.8	142.9	129.5
	October	121.9	129.5	142.1	128.0
	November	120.7	128.3	141.2	126.8
	December	118.1	126.0	139.4	124.4
	AVERAGE	**122.2**	**129.6**	**141.5**	**128.1**
1983	January	114.6	122.8	137.6	121.3
	February	109.9	118.7	133.8	117.0
	March	106.4	115.1	130.8	113.5
	April	113.1	121.5	136.0	119.8
	May	117.7	125.9	139.7	124.3
	June	119.7	127.7	141.1	126.1
	July	120.7	128.8	142.1	127.2
	August	120.3	128.5	141.9	126.9
	September	118.9	127.4	141.0	125.7
	October	117.2	125.5	139.5	123.9
	November	115.6	124.1	138.4	122.4
	December	114.6	123.1	137.6	121.5
	AVERAGE	**115.7**	**124.1**	**138.3**	**122.5**
1984	January	113.1	121.6	136.9	120.0
	February	112.5	120.9	136.1	119.3
	March	112.5	121.0	136.2	119.4
	April	114.5	122.7	137.5	121.1
	May	115.4	123.6	138.0	122.1
	June	114.7	122.9	137.7	121.4
	July	112.9	121.2	137.0	119.7

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

Price

Refiner and Gas Plant Operator Sales Prices of Residual Fuel Oil[1]

		Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 percent		Average	
		Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users
		Cents per gallon, excluding tax					
1978	**AVERAGE**	**29.3**	**31.4**	**24.5**	**27.5**	**26.3**	**29.8**
1979	**AVERAGE**	**45.0**	**46.8**	**36.6**	**38.9**	**39.9**	**43.6**
1980	**AVERAGE**	**60.8**	**67.5**	**47.9**	**52.3**	**52.8**	**60.7**
1981	**AVERAGE**	**74.8**	**82.9**	**62.2**	**67.3**	**66.3**	**75.6**
1982	January	71.8	77.7	57.0	60.7	62.0	68.8
	February	71.5	77.4	54.6	58.4	60.2	69.1
	March	68.4	75.6	54.1	57.1	59.1	67.4
	April	66.8	73.5	54.6	57.8	58.5	65.1
	May	68.4	74.0	58.0	61.5	61.0	66.7
	June	68.1	75.1	58.6	63.2	61.5	68.8
	July	67.9	72.7	56.3	62.9	60.1	68.1
	August	67.1	71.8	58.7	61.5	60.7	66.2
	September	68.1	72.1	58.3	61.6	61.2	66.3
	October	72.6	75.9	59.5	62.9	63.5	68.1
	November	72.6	76.3	60.7	64.1	65.3	70.0
	December	69.2	72.0	58.2	61.9	61.7	66.4
	AVERAGE	**69.5**	**74.7**	**57.2**	**61.1**	**61.2**	**67.6**
1983	January	65.0	70.5	57.0	60.1	60.3	64.2
	February	63.0	66.0	55.7	58.5	58.5	62.0
	March	60.0	66.2	55.9	57.0	57.7	60.9
	April	60.1	64.3	56.5	58.7	57.7	61.0
	May	62.6	66.9	57.8	59.7	59.2	63.2
	June	63.2	69.2	58.5	60.1	60.2	64.7
	July	65.2	70.4	60.5	61.4	62.2	65.9
	August	66.7	71.6	62.0	63.2	63.8	67.7
	September	67.0	72.6	63.3	65.3	64.6	69.0
	October	68.8	72.1	62.6	64.9	64.7	68.7
	November	66.5	70.7	62.2	64.4	63.6	67.4
	December	67.3	72.0	60.2	63.1	62.3	67.2
	AVERAGE	**64.3**	**69.5**	**59.1**	**61.1**	**60.9**	**65.1**
1984	January	71.0	73.6	62.3	64.6	64.8	69.0
	February	71.4	75.1	65.7	65.8	67.5	70.4
	March	70.5	73.1	61.9	64.7	64.5	68.5
	April	69.2	73.1	64.7	66.5	66.2	69.1
	May	R68.3	R72.7	R65.0	R67.4	R66.0	R69.5
	June†	69.8	73.2	66.1	68.9	67.2	71.0

The price series on this page are new. Prices prior to January 1983 are backcast estimates. See the explanation beginning on page 106.

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

Price

Refiner and Gas Plant Operator Sales Prices of Petroleum Products for Resale[1]

		Finished Motor Gasoline[2]	Finished Aviation Gasoline	Kerosene-Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
		Cents per gallon, excluding tax						
1978	**AVERAGE**	**43.4**	**53.7**	**38.6**	**40.4**	**36.9**	**36.5**	**23.7**
1979	**AVERAGE**	**63.7**	**72.1**	**66.0**	**62.4**	**56.9**	**57.4**	**29.1**
1980	**AVERAGE**	**94.1**	**112.8**	**86.8**	**86.4**	**80.3**	**80.1**	**41.5**
1981	**AVERAGE**	**106.4**	**125.0**	**101.2**	**106.6**	**97.6**	**97.2**	**46.6**
1982	January	102.3	128.8	100.5	108.5	98.0	96.7	42.4
	February	98.9	128.4	99.2	106.3	93.9	93.5	37.8
	March	92.6	123.1	96.8	99.9	86.6	89.0	35.3
	April	89.6	119.3	92.2	95.1	83.3	85.4	34.4
	May	94.1	115.3	91.0	95.5	86.5	87.9	34.9
	June	100.5	120.7	93.3	97.4	89.8	92.2	36.4
	July	101.7	126.7	93.5	97.0	91.0	92.1	39.2
	August	101.0	123.9	94.2	96.9	90.3	91.0	43.2
	September	99.6	121.8	94.7	100.6	92.0	91.1	48.8
	October	98.4	122.7	97.6	105.7	96.5	94.4	50.4
	November	96.4	124.6	97.3	105.3	97.3	96.1	52.5
	December	92.4	125.9	92.9	98.2	89.5	90.0	48.9
	AVERAGE	**97.3**	**122.8**	**95.3**	**101.8**	**91.4**	**91.4**	**42.7**
1983	January	88.5	124.8	91.8	94.2	85.7	85.5	47.0
	February	85.4	123.7	89.9	90.0	80.1	80.7	46.7
	March	82.9	121.2	84.5	83.1	76.0	75.2	47.4
	April	86.5	120.0	82.9	84.2	78.9	76.8	50.0
	May	90.4	120.2	84.3	87.7	80.9	80.2	50.5
	June	91.5	115.0	84.1	84.6	80.9	80.3	50.9
	July	92.3	115.2	84.8	85.2	81.7	80.8	50.7
	August	91.5	114.7	85.4	86.7	83.4	81.7	49.8
	September	90.2	113.7	86.3	91.9	85.1	83.5	50.1
	October	88.1	118.9	86.4	90.8	83.5	83.0	49.9
	November	86.6	118.7	84.4	90.4	82.6	82.0	47.3
	December	83.8	118.8	83.6	88.6	80.7	80.1	45.4
	AVERAGE	**88.2**	**117.8**	**85.4**	**89.2**	**81.5**	**80.8**	**48.4**
1984	January	83.2	116.7	86.4	95.9	87.5	82.6	47.7
	February	83.8	116.5	86.5	100.4	89.2	84.5	47.4
	March	84.7	117.1	84.6	91.5	81.3	81.0	45.3
	April	86.9	116.8	84.2	90.7	82.8	80.8	44.6
	May	86.6	117.1	84.3	90.9	R83.2	R81.9	44.4
	June†	84.5	116.8	84.2	88.1	82.3	81.9	44.1

The price series on this page are new. Prices prior to January 1983 are backcast estimates. See the explanation beginning on page 106.

[1]Sales for Resale are those made to purchasers who are other-than-ultimate consumers, that is, wholesale sales. Sales to End Users are those made directly to the ultimate consumer including bulk customers such as agriculture, industry, and utilities, as well as residential and commercial customers.
[2]See Note 5 in the Notes and Sources for this section.
†Preliminary data. R=Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
•Prices prior to January 1983 are Energy Information Administration backcast estimates. See Note 8 in the Notes and Sources for this section for additional information.
Sources: • See the Notes and Sources for this section.

Price

Refiner and Gas Plant Operator Sales Prices of Petroleum Products to End Users[1]

		Finished Motor Gasoline[2]	Finished Aviation Gasoline	Kerosene-Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
		Cents per gallon, excluding tax						
1978	**AVERAGE**	**48.4**	**51.6**	**38.7**	**42.1**	**40.0**	**37.7**	**33.5**
1979	**AVERAGE**	**71.3**	**68.9**	**54.7**	**58.5**	**51.6**	**58.5**	**35.7**
1980	**AVERAGE**	**103.5**	**108.4**	**86.8**	**90.2**	**78.8**	**81.8**	**48.2**
1981	**AVERAGE**	**114.7**	**130.3**	**102.4**	**112.3**	**91.4**	**99.5**	**56.5**
1982	January	110.8	132.0	101.0	111.2	94.4	98.7	57.8
	February	108.6	132.8	100.4	110.7	95.0	96.7	57.7
	March	102.2	133.6	99.0	112.2	90.6	91.9	57.3
	April	98.3	131.5	96.2	103.1	85.0	90.1	57.3
	May	102.1	131.5	94.9	105.1	84.4	91.5	57.8
	June	109.3	131.3	94.7	109.4	85.1	95.8	57.7
	July	110.4	133.2	94.7	109.0	83.6	94.8	55.1
	August	108.9	131.4	94.8	101.9	86.3	93.1	56.7
	September	107.7	128.8	94.5	102.7	86.2	93.5	59.9
	October	106.4	130.3	95.2	107.7	89.8	95.7	60.7
	November	105.1	129.5	95.8	113.7	94.2	97.7	63.2
	December	102.2	129.1	95.0	108.3	93.9	94.0	64.2
	AVERAGE	**106.0**	**131.2**	**96.3**	**108.9**	**90.5**	**94.2**	**59.2**
1983	January	97.1	129.2	94.5	104.5	100.9	89.2	72.7
	February	92.5	127.2	92.6	101.4	97.0	84.0	71.7
	March	89.8	126.6	90.6	97.1	93.0	78.0	68.1
	April	94.7	125.2	88.8	93.4	89.1	78.8	68.6
	May	96.6	125.4	87.8	93.8	89.5	81.8	72.2
	June	97.8	125.6	86.3	90.0	87.3	81.5	67.3
	July	98.8	125.1	85.6	89.0	85.1	82.0	66.4
	August	98.4	125.9	85.5	90.8	86.1	83.0	68.9
	September	96.9	124.2	86.1	92.7	88.0	84.8	74.9
	October	95.4	124.7	86.0	98.9	89.0	84.2	69.6
	November	93.9	124.5	85.8	100.0	90.1	83.5	72.8
	December	92.4	124.4	85.5	96.6	92.1	82.2	76.4
	AVERAGE	**95.4**	**125.5**	**87.8**	**96.1**	**91.6**	**82.6**	**70.9**
1984	January	90.6	123.9	85.8	106.8	97.7	84.4	76.8
	February	90.2	123.7	86.5	117.9	104.6	87.4	76.3
	March	90.7	123.8	85.6	111.3	94.7	83.2	76.4
	April	92.9	124.4	85.1	105.8	91.9	82.4	76.5
	May	R93.4	123.9	85.2	R102.4	R90.9	83.2	R70.4
	June†	92.5	124.7	84.5	94.3	86.9	84.0	70.6

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[1]Sales for Resale are those made to purchasers who are other-than-ultimate consumers, that is, wholesale sales. Sales to End Users are those made directly to the ultimate consumer including bulk customers such as agriculture, industry, and utilities, as well as residential and commercial customers.
[2]See Note 5 in the Notes and Sources for this section.
†Preliminary data. R=Revised data.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
•Prices prior to January 1983 are Energy Information Administration backcast estimates. See Note 8 in the Notes and Sources for this section for additional information.
Sources: • See the Notes and Sources for this section.

Price

Sales Prices of No. 2 Distillate to Residences for Selected States[1]

		CT	ME	MA	NH	RI	VT	DE	DC	MD	NJ	NY	PA	VA
		Cents per gallon, excluding tax												
1978	**AVERAGE**	**50.1**	**48.6**	**48.8**	**50.3**	**50.7**	**50.8**	**47.8**	**50.7**	**49.2**	**49.6**	**50.1**	**48.8**	**49.1**
1979	**AVERAGE**	**72.0**	**68.8**	**70.9**	**72.5**	**72.8**	**72.5**	**68.2**	**74.2**	**70.1**	**71.0**	**71.2**	**69.8**	**70.4**
1980	**AVERAGE**	**98.0**	**96.3**	**97.8**	**100.4**	**101.1**	**101.5**	**95.4**	**102.6**	**97.9**	**97.9**	**98.2**	**96.4**	**98.5**
1981	**AVERAGE**	**121.7**	**120.4**	**121.3**	**123.7**	**123.8**	**125.4**	**117.3**	**127.4**	**121.4**	**121.5**	**123.2**	**118.1**	**120.5**
1982	January	122.6	120.0	123.8	123.3	125.8	126.2	114.4	128.5	120.3	122.0	125.4	119.5	121.7
	February	120.3	118.8	121.9	121.2	123.0	125.0	114.3	127.9	120.3	120.0	124.0	118.3	119.5
	March	114.8	111.3	116.7	116.8	116.5	120.5	110.3	125.4	115.5	115.7	119.5	109.5	117.2
	April	110.6	108.6	113.7	112.3	114.7	115.3	108.6	120.5	112.8	113.4	114.4	111.0	114.1
	May	112.4	113.2	115.1	114.3	115.9	116.0	107.4	122.7	114.3	113.8	117.6	110.8	115.7
	June	115.9	114.9	114.7	117.2	117.9	118.5	109.9	120.4	115.8	116.3	118.4	112.8	116.6
	July	116.4	115.8	114.4	116.7	119.2	118.2	108.4	122.5	116.6	116.4	118.2	110.5	116.2
	August	118.3	116.7	115.4	115.4	118.7	113.3	109.3	121.5	115.9	116.6	118.6	111.5	115.8
	September	119.5	116.7	115.4	115.8	120.0	118.8	109.9	122.6	117.9	115.7	119.1	106.4	118.3
	October	122.6	117.6	118.8	116.7	123.9	121.1	114.2	126.2	117.2	120.0	122.4	117.3	119.1
	November	123.6	117.9	121.5	121.2	124.5	124.5	116.1	128.9	119.7	121.3	124.4	119.5	120.2
	December	122.4	114.7	119.5	118.3	121.0	124.1	113.2	126.6	118.1	117.7	123.8	117.1	117.6
	AVERAGE	**118.3**	**115.5**	**117.6**	**117.4**	**120.1**	**120.1**	**111.3**	**124.5**	**117.1**	**117.4**	**120.5**	**113.7**	**117.7**
1983	January	119.5	109.0	116.3	111.6	116.2	121.5	110.5	122.8	115.4	115.7	120.6	113.7	116.0
	February	115.8	103.7	113.2	105.5	112.2	116.9	108.2	119.7	112.6	110.4	117.6	109.6	112.0
	March	108.3	97.4	105.4	100.8	106.8	109.6	103.9	115.3	108.2	104.6	110.2	104.0	106.9
	April	104.5	99.5	104.4	100.9	108.8	110.6	103.0	113.1	107.9	104.4	106.9	101.8	106.7
	May	105.9	101.6	107.0	102.6	109.6	111.2	104.6	112.9	108.6	105.5	108.2	103.3	107.2
	June	104.3	102.6	105.9	101.2	112.0	112.8	107.3	114.7	108.3	104.6	110.5	102.2	106.8
	July	104.2	102.6	105.3	104.3	109.1	112.3	107.8	112.8	107.2	104.5	109.9	101.3	107.4
	August	103.8	105.6	105.4	103.5	107.9	111.7	102.5	113.3	107.0	105.5	110.0	101.6	107.7
	September	103.8	103.8	106.2	104.0	108.1	111.0	103.5	113.9	108.1	106.1	110.5	102.8	108.1
	October	104.3	102.9	105.6	103.1	108.0	109.4	103.5	113.4	108.7	105.4	110.3	103.3	104.8
	November	104.1	101.8	106.1	101.5	108.7	109.8	103.7	113.5	108.8	104.6	110.2	103.7	104.9
	December	105.6	102.2	108.1	103.7	109.4	110.0	105.5	114.7	109.2	106.7	110.9	104.6	105.2
	AVERAGE	**109.1**	**102.8**	**109.1**	**104.1**	**110.5**	**112.9**	**106.0**	**117.0**	**110.3**	**107.9**	**112.1**	**105.8**	**108.7**
1984	January	115.7	110.2	114.4	114.0	113.7	116.6	114.8	122.0	115.6	114.1	118.3	112.9	111.4
	February	121.7	112.6	119.7	117.8	117.5	118.9	118.4	128.6	121.9	119.5	124.3	117.4	117.5
	March	114.5	103.3	113.1	108.8	111.7	115.1	111.1	122.6	116.2	113.5	117.0	110.9	112.6
	April	113.4	103.3	112.4	107.7	110.7	113.3	109.9	119.9	115.6	110.6	116.0	107.8	110.8
	May	112.5	R102.7	112.5	R108.8	R111.4	R112.2	R109.0	R119.5	R113.0	R109.1	R114.5	105.8	111.1
	June†	110.4	103.7	110.5	104.5	110.8	112.8	107.2	116.3	109.9	107.1	115.0	103.2	108.7

The price series on this page are new. Prices prior to January 1983 are backcast estimates. See the explanation beginning on page 106.

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

Price

Sales Prices of No. 2 Distillate to Residences for Selected States[1] (continued)

		WV	IL	IN	MI	MN	OH	WI	ID	AK	OR	WA	U.S. Average
		Cents per gallon, excluding tax											
1978	**AVERAGE**	**46.2**	**46.5**	**48.5**	**47.9**	**47.8**	**47.4**	**44.7**	**43.6**	**53.2**	**45.8**	**48.6**	**49.0**
1979	**AVERAGE**	**65.1**	**68.8**	**72.7**	**70.9**	**72.4**	**68.6**	**67.3**	**62.1**	**68.2**	**68.0**	**69.7**	**70.4**
1980	**AVERAGE**	**92.2**	**95.8**	**99.6**	**97.8**	**99.9**	**91.9**	**91.5**	**91.6**	**97.8**	**97.3**	**100.8**	**97.4**
1981	**AVERAGE**	**115.0**	**114.9**	**118.5**	**118.3**	**118.4**	**113.2**	**109.1**	**110.4**	**118.0**	**111.4**	**116.5**	**119.4**
1982	January	114.3	114.2	119.6	118.3	118.5	113.7	111.0	113.1	121.7	113.5	120.1	120.6
	February	111.1	113.1	118.0	116.8	118.3	110.5	110.2	113.1	121.8	113.5	119.4	119.2
	March	105.1	107.3	112.9	110.9	111.4	105.2	106.9	111.2	119.9	111.3	118.1	113.9
	April	102.1	104.2	108.9	108.4	115.4	105.4	105.8	109.3	117.2	110.3	115.9	111.7
	May	105.8	107.0	114.6	112.8	110.2	108.4	105.4	109.7	118.6	110.9	115.6	113.0
	June	111.6	113.9	117.7	114.6	115.8	112.2	107.4	109.8	116.4	110.4	115.8	114.8
	July	110.3	114.0	115.1	113.1	114.5	112.1	108.1	107.9	115.1	110.4	115.3	114.4
	August	107.6	110.6	110.7	112.6	114.0	110.7	106.2	110.0	116.2	110.5	116.2	114.4
	September	110.0	110.9	110.9	112.8	114.1	110.0	106.9	109.7	115.2	110.3	117.1	113.7
	October	111.7	113.3	114.7	115.5	117.4	111.8	107.2	109.7	115.7	111.5	118.4	118.2
	November	111.6	113.9	116.5	116.0	117.7	112.9	109.7	110.9	116.3	112.8	120.8	120.1
	December	110.7	109.0	112.1	114.2	114.3	110.2	108.6	110.7	115.0	113.6	119.3	118.2
	AVERAGE	**109.3**	**110.9**	**114.3**	**113.9**	**115.1**	**110.2**	**107.8**	**110.4**	**117.4**	**111.6**	**117.6**	**116.0**
1983	January	105.6	103.8	105.7	110.6	107.8	107.9	108.5	109.1	114.6	113.6	117.7	115.0
	February	104.7	99.5	102.8	108.5	101.6	104.4	104.5	104.8	NA	107.8	114.3	111.6
	March	99.2	96.6	95.7	103.7	96.5	98.2	96.8	99.6	110.7	101.4	109.0	105.1
	April	97.5	97.7	96.8	102.5	100.5	95.8	97.1	99.0	106.6	99.1	106.0	103.5
	May	96.1	100.3	98.2	102.7	101.9	96.5	98.7	99.2	106.0	99.0	105.5	104.8
	June	97.3	100.2	98.2	110.7	102.4	96.1	98.7	98.7	105.0	99.4	105.4	106.0
	July	94.9	99.6	99.4	105.3	102.6	97.3	99.0	99.3	105.8	97.8	105.2	105.0
	August	96.1	100.7	98.9	102.2	104.4	95.2	99.2	98.1	105.1	98.7	104.0	104.9
	September	100.7	102.5	101.4	103.9	103.7	101.2	100.7	98.9	106.2	100.5	105.6	105.7
	October	100.6	101.0	101.5	105.8	104.8	100.2	101.8	99.5	106.1	101.4	106.3	106.0
	November	100.5	100.8	100.7	105.4	104.4	101.0	100.4	99.5	105.5	102.1	106.4	106.0
	December	101.5	99.6	101.1	106.8	104.2	102.1	100.5	100.3	105.5	101.8	106.1	106.7
	AVERAGE	**101.0**	**100.4**	**100.7**	**106.4**	**103.1**	**101.3**	**101.2**	**101.8**	**108.8**	**103.6**	**109.0**	**107.8**
1984	January	108.5	104.7	106.0	107.3	106.6	104.6	101.5	100.1	104.1	100.5	103.6	112.0
	February	109.9	105.9	107.3	108.0	102.8	105.7	102.8	101.3	106.5	100.9	103.8	116.9
	March	104.9	102.3	100.6	105.6	105.1	101.7	101.7	97.2	107.3	100.9	104.6	111.3
	April	101.6	100.3	103.4	104.8	103.9	101.9	101.4	96.2	107.3	100.6	105.0	109.8
	May	R98.9	R102.3	R102.4	105.2	105.3	R103.1	101.0	R98.1	107.2	99.5	104.2	108.4
	June†	99.5	101.6	105.9	103.3	104.2	101.7	100.2	93.7	107.8	98.2	103.3	107.0

The price series on this page are new. Prices prior to January 1983 are backcast estimates. See the explanation beginning on page 106.

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

Price

National Average Natural Gas Prices

		Wellhead Price	Imports by Major Interstate Pipeline Companies	Purchased from Producers by Major Interstate Pipeline Companies	Industrial Sales by Major Interstate Pipeline Companies	Purchased by Electric Plants[1]	Residential Price[2]
		Dollars per thousand cubic feet					
1973	**AVERAGE**	**0.22**	**NA**	**NA**	**NA**	**0.35**	**1.29**
1974	**AVERAGE**	**0.30**	**NA**	**NA**	**NA**	**0.49**	**1.43**
1975	**AVERAGE**	**0.45**	**NA**	**NA**	**NA**	**0.77**	**1.71**
1976	**AVERAGE**	**0.58**	**NA**	**NA**	**NA**	**1.06**	**1.98**
1977	**AVERAGE**	**0.79**	**NA**	**NA**	**NA**	**1.33**	**2.35**
1978	**AVERAGE**	**0.91**	**2.21**	**0.83**	**1.54**	**1.48**	**2.56**
1979	**AVERAGE**	**1.18**	**2.60**	**1.22**	**2.01**	**1.80**	**2.98**
1980	**AVERAGE**	**1.59**	**4.42**	**1.63**	**2.53**	**2.28**	**3.68**
1981	**AVERAGE**	**1.98**	**4.84**	**2.15**	**3.11**	**2.91**	**4.29**
1982	January	2.23	4.94	2.47	3.59	3.07	4.65
	February	2.30	4.96	2.50	3.58	3.18	4.69
	March	2.35	4.94	2.52	3.61	3.25	4.78
	April	2.40	4.94	2.54	3.61	3.32	4.86
	May	2.45	4.93	2.68	3.60	3.42	5.17
	June	2.45	4.86	2.83	3.66	3.57	5.20
	July	2.47	5.00	2.79	3.71	3.69	5.23
	August	2.53	5.07	2.86	3.75	3.67	5.23
	September	2.56	5.05	2.78	3.88	3.67	5.41
	October	2.60	5.02	2.93	3.91	3.68	5.66
	November	2.62	5.01	2.89	3.98	3.61	5.68
	December	2.62	4.94	2.96	4.06	3.64	5.74
	AVERAGE	**2.46**	**4.94**	**2.72**	**3.73**	**3.49**	**5.17**
1983	January	2.63	5.03	3.06	4.38	[1]3.57	5.84
	February	2.64	5.09	3.15	4.41	3.41	5.85
	March	2.61	5.01	3.01	4.24	3.45	5.94
	April	2.57	4.58	2.90	4.37	3.35	6.04
	May	2.56	4.40	2.98	4.24	3.55	6.20
	June	2.62	4.41	2.95	4.22	3.58	6.18
	July	2.56	4.31	2.96	4.28	3.72	6.19
	August	2.61	3.93	2.90	4.23	3.75	6.16
	September	2.70	4.02	2.87	4.08	3.70	6.16
	October	2.62	4.03	2.86	4.22	3.60	6.08
	November	2.63	4.26	2.84	4.26	3.53	6.02
	December	2.65	4.33	2.73	4.12	3.49	6.03
	AVERAGE	**2.62**	**4.51**	**2.93**	**4.25**	**3.58**	**†5.99**
1984	January	R2.68	4.40	2.80	4.25	3.56	5.96
	February	R2.71	4.37	2.82	3.97	3.59	5.99
	March	R2.63	4.40	2.80	4.18	3.50	5.97
	April	R2.63	4.23	2.95	4.11	3.55	5.98
	May	2.62	4.15	2.86	4.17	3.74	6.17
	June	NA	NA	NA	NA	NA	6.11
	July	NA	NA	NA	NA	NA	6.15

[1]Data through December 1982 cover all steam-electric utility plants with a capacity of 25 megawatts or greater. From 1974 through 1982, data include peaking units. Beginning with January 1983, data cover steam-electric utility plants with a capacity of 50 megawatts or greater. Small quantities of coke oven gas, refinery gas, and blast furnace gas are included.
[2]Monthly residential prices are Energy Information Administration calculations. See Note 6 in the Notes and Sources for this section for estimation procedures.
†Preliminary estimate. R=Revised data. NA=Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Data for 1973 through December 1982 are final. All other data are preliminary unless otherwise indicated.
Sources: • See the Notes and Sources for this section.

Price

Electricity

		Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants[1]				Average Retail Electricity Prices for Privately Owned Utilities[2]				
		Coal	Heavy Oil[3]	Gas[4]	All Fossil Fuels[3]	Residential	Commercial	Industrial	Other	Total[5]
		Cents per million Btu				Cents per kilowatt hour				
1973	**AVERAGE**	**40.5**	**78.5**	**33.8**	**47.6**	**2.54**	**2.41**	**1.25**	**2.10**	**1.96**
1974	**AVERAGE**	**70.9**	**189.0**	**48.2**	**91.4**	**3.10**	**3.04**	**1.69**	**2.75**	**2.49**
1975	**AVERAGE**	**81.4**	**200.5**	**75.2**	**104.4**	**3.51**	**3.45**	**2.07**	**3.08**	**2.92**
1976	**AVERAGE**	**84.8**	**195.2**	**103.4**	**111.9**	**3.73**	**3.69**	**2.21**	**3.27**	**3.09**
1977	**AVERAGE**	**94.7**	**219.8**	**129.1**	**129.7**	**4.05**	**4.09**	**2.50**	**3.51**	**3.42**
1978	**AVERAGE**	**111.6**	**212.5**	**142.2**	**141.1**	**4.31**	**4.36**	**2.79**	**3.62**	**3.69**
1979	**AVERAGE**	**122.4**	**298.8**	**174.9**	**163.9**	**4.64**	**4.68**	**3.05**	**3.96**	**3.99**
1980	**AVERAGE**	**135.1**	**426.7**	**219.9**	**192.8**	**5.36**	**5.48**	**3.69**	**4.76**	**4.73**
1981	**AVERAGE**	**153.2**	**533.4**	**280.5**	**225.6**	**6.20**	**6.29**	**4.29**	**5.28**	**5.46**
1982	January	160.9	489.2	297.4	229.4	6.22	6.49	4.66	5.44	5.74
	February	164.1	493.6	307.8	223.1	6.35	6.68	4.70	5.83	5.84
	March	165.7	477.1	314.2	221.9	6.58	6.79	4.83	6.38	5.97
	April	164.6	487.0	320.7	216.9	6.72	6.81	4.84	5.77	5.99
	May	165.1	494.2	327.6	217.7	6.94	6.86	4.95	5.91	6.09
	June	167.0	488.3	341.8	226.8	7.08	6.94	4.92	6.01	6.18
	July	164.5	477.8	353.3	241.0	7.18	6.98	5.12	6.13	6.38
	August	164.7	467.1	353.4	230.2	7.22	6.91	5.15	6.09	6.40
	September	165.9	475.3	354.7	229.4	7.18	6.97	5.25	6.07	6.41
	October	164.9	490.2	355.9	222.2	7.21	7.09	5.09	5.81	6.33
	November	165.3	501.0	349.8	220.8	6.94	7.04	4.88	5.69	6.14
	December	162.9	461.9	352.5	218.8	6.71	6.78	5.01	5.85	6.11
	AVERAGE	**164.7**	**483.2**	**337.6**	**224.9**	**6.86**	**6.86**	**4.95**	**5.92**	**6.13**
1983	January	[1]166.8	[1]448.9	[1]347.1	[1]216.7	6.65	6.78	5.03	5.91	6.13
	February	167.8	441.4	331.9	213.9	6.73	6.86	4.96	5.97	6.12
	March	168.1	426.0	336.1	215.5	6.93	6.93	5.07	6.16	6.23
	April	168.5	431.6	326.1	215.8	6.91	6.86	4.92	6.15	6.12
	May	165.0	446.6	344.3	216.6	7.20	7.04	4.89	6.60	6.21
	June	167.3	453.6	347.2	220.9	7.41	7.13	4.96	6.62	6.35
	July	165.3	467.0	361.1	237.4	7.50	7.13	5.11	6.24	6.53
	August	164.3	470.4	363.2	230.1	7.52	7.06	5.01	6.37	6.51
	September	163.9	482.8	358.1	226.4	7.55	7.15	5.00	6.58	6.52
	October	164.6	479.6	350.1	219.8	7.50	7.19	5.01	6.66	6.41
	November	163.6	472.2	340.5	212.2	7.25	7.13	4.83	6.63	6.23
	December	162.2	468.7	338.7	219.2	6.97	6.91	4.81	6.40	6.14
	AVERAGE	**165.6**	**457.8**	**347.4**	**220.6**	**7.18**	**7.01**	**4.97**	**6.36**	**6.29**
1984	January	161.4	488.2	344.0	221.1	6.76	6.79	4.86	6.34	6.13
	February	165.0	495.8	347.5	217.8	6.98	7.00	4.86	6.53	6.20
	March	164.1	484.0	339.8	209.2	7.16	7.12	4.88	6.69	6.26
	April	165.5	493.5	344.4	210.8	7.32	7.23	4.87	6.59	6.29
	May	168.5	486.9	360.4	220.3	7.58	7.28	4.92	6.86	6.39
	June†	NA	NA	NA	NA	7.89	7.48	5.10	6.79	6.66

[1]Data through December 1982 cover all steam-electric utility plants with a capacity of 25 megawatts or greater. From 1974 through 1982, data include peaking units. Beginning with January 1983, data cover steam-electric utility plants with a capacity of 50 megawatts or greater.
[2]Data through 1979 cover privately owned electric utilities in Classes A and B. Data for 1980 forward cover selected privately owned electric utilities in Class A whose electric operating revenues were $100 million or more during the previous year.
[3]See Note 7 in the Notes and Sources for this section.
[4]Includes small quantities of coke oven gas, refinery gas, and blast furnace gas.
[5]Average price for total sales to ultimate consumers.
†Initial estimates. NA=Not available.
Note: • Geographic coverage is the 50 States and the the District of Columbia.
Sources: • See the Notes and Sources for this section.

Notes and Sources for the Price Section

Notes

1. The actual domestic average price represents the average price at which all domestic crude oil is purchased. Prior to February 1976, the domestic crude oil wellhead price represented an estimate of the average of posted prices; after February 1976, the wellhead price represents an average of first sale prices.
2. FOB literally means 'Free on Board.' It denotes a transaction whereby the seller makes the product available with an agreement on a given port at a given price; it is the responsibility of the buyer to arrange for the transportation and insurance.
3. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to March 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in March 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.
4. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on EIA Form 14, the "Refiners' Monthly Cost Report." These prices were previously published from data collected on ERA Form 49, the "Domestic Crude Oil Entitlements Program Refiners Monthly Report." The ERA Form 49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for EIA Form 14 in accordance with conventions used for ERA Form 49. Also, the respondents for the two forms are essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken in comparing the data collected on the two forms.

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

Crude oil costs and volumes reported on ERA Form 49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported on the FEA Form P110-M-1 included unfinished oils but excluded SPR. Imported averages derived from ERA Form 49 exclude oil purchased for SPR, whereas the composite averages derived from ERA Form 49 include SPR. None of the prices derived from EIA Form 14 include either unfinished oils or SPR.
5. Several different series of motor gasoline prices are published in this section. U.S. City Average Retail Prices for Motor Gasoline are calculated monthly by the Bureau of Labor Statistics during the development of the Consumer Price Index (CPI). These prices include all Federal, State, and local taxes paid at the time of sale. For the period 1974 through 1978, prices were collected in 56 urban areas. For the period 1978 forward, prices were collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers–about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-serve).

Refiner and Gas Plant Operator Sales Prices of Finished Motor Gasoline for Resale and to End Users are determined by the Energy Information Administration in a monthly survey of refiners and gas plant operators (Form EIA-782A). The prices do not include any Federal, State, or local taxes paid at the time of sale. Backcast estimates of prices prior to January 1983 are based on FEA Form P302-M-1/EAI-460, "Petroleum Industry Monthly Report for Product Prices," and also exclude all Federal, State, or local taxes paid at the time of sale. Sales for Resale are those made to purchasers who are other-than-ultimate consumers. Sales to End Users are sales made directly to the consumer of the product, including bulk consumers such as agriculture, industry, and utilities, as well as residential and commercial consumers.
6. The monthly national average price of residential natural gas is based on data from the Bureau of Labor Statistics Consumer Price Index for All Urban Consumers (CPI-U) for natural gas (piped) and on data from Form EIA-176. Initial monthly estimates are obtained by multiplying the annual average price of residential natural gas collected on Form EIA-176 by the ratio of monthly values of the natural gas CPI-U for consecutive months. When a subsequent year's annual average price becomes available, the initial monthly estimates are adjusted to this annual average.
7. Heavy fuel oil prices include fuel oils No. 4, No. 5, and No. 6, and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (No. 2 fuel oil, kerosene, and jet fuel) prices.
8. Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. Every attempt was made to continue the most important price series. However, prices published through December 1982 and those published since January 1983 do not necessarily form continuous data series due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous annual data series have been generated for 1978–1980, and monthly series for 1981 and 1982, by estimating the prices that would have been published had the EIA-782 survey and system been in operation at that time. This form of estimation, referred to as backcasting, was performed after detailed adjustment for product and sales type matching, and for discontinuity due to other factors. An important difference between the previous and present prices is the distinction between wholesale and resale, and between retail and end user. The resale category continues to include sales among resellers. However, bulk sales to utility, industrial, and commercial accounts previously included in the wholesale category are now counted as made to end users. The end user category continues to include retail sales through company owned and operated outlets but also includes the bulk utility, industrial, and commercial sales. Additional information may be found in "Estimated Historic Time Series for the EIA-782", a feature article reprinted from the December 1983 [3] *Petroleum Marketing Monthly* published by the Energy Information Administration.

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

Notes and Sources for the Price Section (continued)

Sources

Petroleum and Petroleum Products: • Actual domestic average wellhead prices—Economic Regulatory Administration (ERA), January 1976: FEA Form 90, "Crude Petroleum Production Monthly Report"; February 1976 through September 1979: FEA Form P124, "Domestic Crude Oil Purchaser's (Monthly) Report"; October 1979 through December 1982: ERA Form 182, "Domestic Crude Oil First Purchase Report."; January 1983 forward: EIA Form 182, "Domestic Crude Oil First Purchase Report."
• Crude oil imports costs—Environmental Protection Safety and Emergency Preparedness, 1975 through January 1979: FEA Form F701-M-0, "Transfer Pricing Report"; February 1979 through September 1982: ERA Form 51, "Transfer Pricing Report"; October 1982 forward: EP Form 51, "Monthly Foreign Crude Oil Transaction Report."
• Refiner acquisition costs—Energy Information Administration (EIA), January 1976: FEO Form 96, "Monthly Cost Allocation Report"; February 1976 through June 1978: FEA Form P110-M-1, "Refiners' Monthly Cost Allocation Report"; July 1978 through December 1980: ERA Form 49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report"; January 1981 forward: EIA Form 14, "Refiners' Monthly Cost Report."
• U.S. City average retail motor gasoline prices—Bureau of Labor Statistics.
• No. 2 Distillate to Residences—January 1983 forward, EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers/Retailers' Monthly Petroleum Product Sales Report." Prices prior to January 1983 are EIA backcast estimates using data from FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" and EIA Form 9A, "No. 2 Distillate Price Monitoring Report". See Note 8 on the previous page for additional information on the backcast data.
• All other petroleum products—January 1983 forward, EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report." Prices prior to January 1983 are EIA backcast estimates using data from FEA Form 302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices." See Note 8 on the previous page for additional information on the backcast data.
Natural Gas: • Average wellhead price—annual data from EIA, *Natural Gas Annual,* 1973 through 1982. Monthly data are estimated primarily on the basis of values reported by State agencies in New Mexico, Oklahoma, and Texas. These States together account for almost 50 percent of total U.S. marketed production. Monthly data are adjusted to conform with final reported annual data.
• Imports, Purchased from Producers, and Industrial Sales by Major Interstate Pipeline Companies—FERC Form 11, "Interstate Pipeline Company Purchases, and Industrial Sales".
• Electric plant data—EIA, FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."
• Residential Price—Annual data from EIA, *Natural Gas Annual,* 1973 through 1982. Monthly data are EIA estimates based on the Bureau of Labor Statistics Urban Consumer Price Index (CPI-U) for natural gas and are adjusted to conform with final reported annual data. See Note 6 on the previous page for estimation procedures.
Electricity: • Cost of fossil fuels—EIA, FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."
• Retail prices—EIA, January 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 through December 1982: FERC Form 5, "Electric Utility Company Monthly Statement"; January 1983 forward: EIA Form 826, "Electric Utility Company Monthly Statement."

Explanation of Changes in the Petroleum Price Series

Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. In consolidating these surveys, every attempt was made to continue the most important data series as determined by a study of user-community needs. The initial survey implementation preserved prices of major petroleum products reported by refiners and gas plant operators, in addition to residential sales prices reported by a sample of all sellers. However, prices published through December 1982 and those published since January 1983 do not necessarily form continuous data series, due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous annual data series have been generated for 1978–1980, and monthly series for 1981 and 1982, by estimating the prices that would have been published had the EIA-782 survey and system been in operation at that time. This form of estimation, referred to as backcasting, was performed only for product prices with suitable product comparability.

A first approximation to the backcast price was provided by the previously published price. This approximation was not necessarily good, however, because of the changes implemented in the new survey. Poor quality first approximations do not imply that previously published prices were inaccurate; rather, they imply that such prices were not representative of the classifications, definitions, and populations utilized in the new survey. A better approximation, therefore, was formed by overlaying the changes on the first approximations. This overlay was accomplished in two steps: adjustment for product- and sales-type matching, and adjustment for discontinuity due to other factors.

The adjustment for product- and sales-type matching involved combining and disaggregating previous survey data to form product and seller/sales categories comparable to those now in use. Comparable product categories were formed by aggregating the earlier data according to a detailed crosswalk, and comparable seller/sales types were obtained by applying the average respective EIA-782 price ratio to the comparable product.

After adjusting for comparable product and seller/sales categories, a discontinuity adjustment was computed using data obtained during the overlap reporting period of the surveys, September through December 1982. During these 4 months, data were collected for both the new (EIA-782) and old (EIA-460 or EIA-9A) surveys. The transition structure for the new survey did not provide full respondent sample overlap. Therefore, the EIA-782 data required preadjustment of the December 1982 average price by a ratio to account for all EIA-782 respondents. The EIA-460 and EIA-9A prices were then multiplied by the appropriate discontinuity factors to generate the backcast estimates.

An important difference between the previous and present surveys is the distinction between wholesale and resale, and between retail and end user. The resale category continues to include sales among resellers. However, bulk sales to utility, industrial, and commercial accounts previously included in the wholesale category are now counted as made to end users. The end user category continues to include retail sales through company owned and operated outlets but also includes the bulk utility, industrial, and commercial sales. Accordingly, resale prices can be lower than comparable wholesale prices because the relatively higher priced bulk sales are no longer averaged in with the wholesale sales. End user prices can also be lower because the relatively lower priced bulk sales are now averaged in with smaller ultimate consumers.

The following paragraphs describe the material and changes in this section, including new backcast series and discontinued previous series, in their order of presentation.

Page 93. Two new data series have been added to this page: the Average FOB Cost of Crude Oil Imports and the Average Landed Cost of Crude Oil Imports. The series are based on the data shown on pages 94 and 95 and include countries not shown separately. The other data series shown on the page were previously shown in the section and no backcast estimates are included.

Pages 94 and 95. Data for two countries have been deleted from these pages and are shown on page 108 as discontinued series. Libya was deleted because no crude oil had been imported for more than 2 years and the United Arab Emirates were deleted because the value had been withheld for more than 2 years to avoid disclosure of company data.

Page 96. All of the data series shown on this page were previously shown in the section and no backcast estimates are included.

Page 97. All of the series shown on this page are new and replace the discontinued series shown on page 109. Estimates prior to January 1983 were backcast as previously described and data since then are from Form EIA-782. In general, the new backcast series are lower than the previous series: 2.1 cents per gallon lower in the resale category and 1.4 cents per gallon lower in the end user category during December 1982, the reference month. These differences are to be expected because bulk sales to utility, industrial, and commercial accounts are now considered sales to end users, rather than resale transactions as previously acccounted.

Page 98. All of the series shown on this page are new and replace the discontinued wholesale series shown on pages 110 and 111. Data since January 1983 are from Form EIA-782 and estimates before then were backcast as previously described. Finished motor gasoline, kerosene-type jet fuel, kerosene, No. 2 fuel oil, No. 2 diesel fuel, and propane differed by 0.5, 0.8, 2.5, 0.6, 1.2, and 0.6 cent per gallon, respectively, for the December 1982 reference month. Finished aviation gasoline differed by 6.3 cents. The backcast series were higher for aviation gasoline and kerosene, and the previous series were higher for the remainder of the products. It would appear that the inclusion of utility, commercial, and industrial sales in the wholesale category of the previous surveys had little price effect. The larger difference in the aviation gasoline series may be due to differences in reporting practices of the companies in the two surveys.

Page 99. All of the data series shown on this page are new and replace the discontinued retail series shown on pages 110 and 111. Estimates prior to January 1983 were backcast as previously described and data since then are from Form EIA-782. Finished motor gasoline differed by 0.3 cent per gallon for the December 1982 reference month, and kerosene showed a difference of 0.2 cent per gallon. Kerosene-type jet fuel and finished aviation gasoline showed differences of 0.6 and 1.2 cents per gallon, respectively. However, No. 2 fuel oil, No. 2 diesel fuel, and propane showed differences, respectively, of 17.8, 6.3, and 19.3 cents per gallon. The backcast series are lower for all products except kerosene. It would appear that the larger differences in the distillate and propane series result from the inclusion of large resellers in the previous survey and the exclusion of bulk end user sales to utility, commercial, and industrial consumers in the previous retail average. For propane, the product definition change to consumer grade, which excludes sales of petrochemical feedstocks, may also have been a factor.

Explanation of Changes in the Petroleum Price Series (continued)

Pages 100 and 101. All of the data series shown on these pages are new and replace the discontinued series shown on pages 112 and 113. Data since January 1983 are from Form EIA-782 and estimates before then were backcast as previously described. The national average backcast residential price is 1.4 cents per gallon lower than the previous series. However, State differences vary from -6.8 cents to +4.3 cents per gallon (for West Virginia and Minnesota, respectively) for the December 1982 reference month. The previous series was generally higher (18 of 23 States). The differences are accounted for by the varying tax rates among States, as well as the differences in respondents from the previous survey.

Pages 102 and 103. All of the data series shown on these pages were previously shown in the section and are not affected by changes in the petroleum price series.

The preceding discussion and the discontinued data series shown on pages 108 through 113 will be published in the *Monthly Energy Review* through the June 1984 issue. Additional information may be found in "Estimated Historic Time Series for the EIA-782", a feature article reprinted from the December 1983 [3] *Petroleum Marketing Monthly* published by the Energy Information Administration.

Price - Discontinued Series

FOB Cost of Crude Oil Imports[1]

		Libya	United Arab Emirates
		Dollars per barrel	
1976	**AVERAGE**	**12.55**	**11.94**
1977	**AVERAGE**	**13.90**	**12.83**
1978	**AVERAGE**	**13.75**	**13.24**
1979	**AVERAGE**	**22.43**	**19.58**
1980	**AVERAGE**	**36.41**	**NA**
1981	**AVERAGE**	**39.44**	**NA**
1982	January	35.69	NA
	February	34.64	NA
	March	34.21	NA
	April	[3]	NA
	May	[3]	NA
	June	[3]	NA
	July	[3]	NA
	August	[3]	NA
	September	[3]	NA
	October	[3]	NA
	November	[3]	NA
	December	[3]	NA
	AVERAGE	**35.12**	**NA**
1983	January	[3]	NA
	February	[3]	NA
	March	[3]	NA
	April	[3]	NA
	May	[3]	NA
	June	[3]	NA
	July	[3]	NA
	August	[3]	NA
	September	[3]	NA
	October	[3]	NA
	November	[3]	NA
	December	[3]	NA
	AVERAGE	**[3]**	**NA**

Landed Cost of Crude Oil Imports[2]

		Libya	United Arab Emirates
		Dollars per barrel	
1975	**AVERAGE**	**12.35**	**12.87**
1976	**AVERAGE**	**13.58**	**13.30**
1977	**AVERAGE**	**14.87**	**14.04**
1978	**AVERAGE**	**14.72**	**14.39**
1979	**AVERAGE**	**23.68**	**21.90**
1980	**AVERAGE**	**37.72**	**NA**
1981	**AVERAGE**	**40.92**	**NA**
1982	January	36.91	NA
	February	35.28	NA
	March	34.80	NA
	April	[3]	NA
	May	[3]	NA
	June	[3]	NA
	July	[3]	NA
	August	[3]	NA
	September	[3]	NA
	October	[3]	NA
	November	[3]	NA
	December	[3]	NA
	AVERAGE	**36.05**	**NA**
1983	January	[3]	NA
	February	[3]	NA
	March	[3]	NA
	April	[3]	NA
	May	[3]	NA
	June	[3]	NA
	July	[3]	NA
	August	[3]	NA
	September	[3]	NA
	October	[3]	NA
	November	[3]	NA
	December	[3]	NA
	AVERAGE	**[3]**	**NA**

The price series on this page have been discontinued. See the explanation beginning on page 106.

[1]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.
[2]The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to March 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in March 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.
[3] No crude oil was imported.
NA = Not available.
Note: • Prices shown through December 1980 are for the month of reporting; prices since then are for the month of loading. Annual averages are the weighted average of the 12 monthly prices including those prices that were not published.
Sources: • Environmental Protection, Safety and Emergency Preparedness, 1975 through January 1979: FEA Form F701-M-0, "Transfer Pricing Report"; February 1979 through September 1982: ERA Form 51, "Transfer Pricing Report"; October 1982 forward: EP Form 51, "Monthly Foreign Crude Oil Transaction Report."

Price - Discontinued Series

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	
		Wholesale	Retail	Wholesale	Retail	Wholesale	Retail	Wholesale	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	**AVERAGE**	**19.87**	**21.21**	**18.33**	**19.33**	**15.89**	**16.44**	**17.66**	**18.67**
1980	**AVERAGE**	**26.41**	**31.13**	**24.91**	**27.59**	**20.77**	**22.11**	**23.14**	**26.09**
1981	January	34.27	37.23	32.12	33.96	29.12	31.35	31.14	33.65
	February	38.04	41.60	34.96	37.32	28.96	32.02	31.81	36.04
	March	37.78	41.19	34.47	38.01	29.55	31.95	31.78	36.11
	April	35.66	41.71	33.10	35.94	28.35	30.56	30.56	34.70
	May	33.61	41.09	32.53	35.94	28.77	30.64	30.41	34.11
	June	28.01	38.30	26.71	32.38	25.33	27.16	25.95	31.03
	July	29.56	39.02	27.38	31.93	25.62	25.96	26.52	30.57
	August	30.48	36.57	27.77	32.04	26.03	26.20	27.01	30.52
	September	29.91	39.17	27.46	32.08	24.80	26.26	26.20	30.33
	October	30.26	39.90	28.64	31.88	24.96	26.18	26.78	30.32
	November	31.71	39.48	29.63	31.02	26.09	26.45	27.99	30.16
	December	31.40	37.65	28.29	32.19	25.39	26.53	27.26	30.90
	AVERAGE	**32.97**	**39.31**	**30.56**	**33.69**	**27.07**	**28.57**	**28.86**	**32.50**
1982	January	33.03	37.56	28.90	31.13	24.60	25.94	27.07	29.83
	February	31.67	38.41	29.30	30.95	23.60	24.70	26.29	30.02
	March	30.95	38.96	27.60	30.57	23.45	24.21	25.73	29.50
	April	30.11	36.77	27.08	30.00	23.57	24.40	25.46	28.21
	May	30.38	37.97	27.89	30.05	25.15	25.94	26.52	28.93
	June	27.98	38.93	28.26	30.89	25.35	26.56	26.62	29.59
	July	30.05	37.46	27.39	29.84	24.19	26.49	25.97	29.33
	August	28.86	31.82	27.50	30.37	25.40	26.02	26.34	28.44
	September	30.22	32.41	27.73	30.45	25.21	25.93	26.49	28.43
	October	31.98	33.51	29.51	32.24	25.72	26.59	27.52	29.28
	November	32.28	34.14	29.44	32.24	26.30	26.99	28.31	29.84
	December	31.31	32.59	28.19	30.25	25.16	26.22	26.81	28.47
	AVERAGE	**30.92**	**36.34**	**28.27**	**30.71**	**24.76**	**25.82**	**26.55**	**29.08**

The price series on this page have been discontinued. See the explanation beginning on page 106.

Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Wholesale refers to the price of residual fuel sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and other residual dealers. Retail refers to the price at which residual fuel oil is sold to ultimate consumers such as utility, industrial, commercial, and residential accounts.
Sources: • EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

Price - Discontinued Series

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	**AVERAGE**	**68.5**	**69.5**	**52.3**	**66.5**	**55.1**
1980	**AVERAGE**	**107.2**	**109.4**	**88.2**	**87.5**	**87.4**
1981	January	118.9	121.6	99.2	97.1	95.7
	February	121.3	128.1	102.7	103.6	101.6
	March	127.2	131.1	106.9	104.8	106.3
	April	117.5	131.3	109.0	103.8	106.4
	May	120.7	133.5	109.1	104.4	106.2
	June	116.5	132.1	107.6	102.3	104.8
	July	120.1	133.4	106.3	100.5	103.8
	August	120.0	132.5	105.7	101.4	103.3
	September	121.0	133.5	105.6	103.0	103.3
	October	117.2	134.5	104.8	99.9	101.1
	November	114.4	133.2	104.5	101.9	102.6
	December	116.8	131.9	103.8	101.9	102.2
	AVERAGE	**118.8**	**131.5**	**105.7**	**102.0**	**103.1**
1982	January	122.4	133.2	101.7	101.3	101.6
	February	122.0	134.0	101.3	100.0	101.0
	March	117.0	134.8	98.4	97.6	99.6
	April	113.4	132.7	96.0	93.0	96.8
	May	109.6	132.7	94.1	91.7	95.5
	June	114.7	132.5	98.4	94.1	95.3
	July	120.4	134.4	98.7	94.3	95.3
	August	117.7	132.6	97.3	95.0	95.4
	September	115.7	130.0	98.2	95.5	95.1
	October	116.6	131.5	98.5	98.4	95.8
	November	118.4	131.7	96.4	98.2	96.4
	December	119.6	130.3	94.0	93.7	95.6
	AVERAGE	**116.7**	**132.4**	**97.7**	**96.1**	**96.9**

The price series on this page have been discontinued. See the explanation beginning on page 106.

[1]Nearly all naphtha-type fuels are sold directly to the Defense Fuel Supply Center. Consequently, wholesale prices are not applicable.
[2]Wholesale refers to the price of aviation fuel sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and aviation fuel distributors. Retail refers to the price of aviation fuel sold to ultimate consumers, including commercial airline and military accounts.
Note: • Geographic coverage is the 50 States and the District of Columbia.
Sources: • EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

Price - Discontinued Series

		No. 2 Diesel Price Average[1]		No. 2 Heating Oil Price Average		Propane Price Average[2]	Butane Price Average[2]
		Wholesale[3]	Retail[3]	Wholesale	Retail	Wholesale[3]	Wholesale[3]
		Cents per gallon					
1976	**AVERAGE**	**31.9**	**34.7**	**32.6**	**40.6**	**20.6**	**21.9**
1977	**AVERAGE**	**36.1**	**39.3**	**36.9**	**46.0**	**25.0**	**25.4**
1978	**AVERAGE**	**37.1**	**40.2**	**38.7**	**49.4**	**24.0**	**23.0**
1979	**AVERAGE**	**58.2**	**62.4**	**53.0**	**65.6**	**29.5**	**45.8**
1980	**AVERAGE**	**81.2**	**87.3**	**82.2**	**97.8**	**42.4**	**62.9**
1981	**AVERAGE**	**98.5**	**106.2**	**102.6**	**120.5**	**47.2**	**60.4**
1982	January	98.0	105.3	101.5	122.0	43.1	51.8
	February	94.8	103.2	98.3	120.7	38.3	48.9
	March	90.2	98.0	91.3	115.3	35.7	49.6
	April	86.6	96.1	90.0	113.2	34.9	56.1
	May	89.1	97.6	95.1	114.3	35.4	65.6
	June	93.5	102.2	98.5	116.2	36.9	67.9
	July	93.4	101.1	98.6	115.8	39.7	69.7
	August	92.3	99.3	96.7	115.9	43.8	72.2
	September	92.4	99.8	97.7	115.2	49.5	77.4
	October	95.7	102.1	102.0	119.6	51.0	75.7
	November	97.3	104.5	101.5	121.6	53.2	76.1
	December	91.2	100.3	95.9	119.6	49.5	72.6
	AVERAGE	**92.7**	**100.5**	**97.4**	**118.6**	**43.3**	**64.8**
1983	January	NA	NA	NA	NA	NA	NA
	February	NA	NA	NA	NA	NA	NA
	March	NA	NA	NA	NA	NA	NA
	April	NA	NA	NA	NA	NA	NA
	May	NA	NA	NA	NA	NA	NA
	June	NA	NA	NA	NA	NA	NA
	July	NA	NA	NA	NA	NA	NA
	August	NA	NA	NA	NA	NA	NA
	September	NA	NA	NA	NA	NA	NA
	October	NA	NA	NA	NA	NA	NA
	November	NA	NA	NA	NA	NA	NA
	December	NA	NA	NA	NA	NA	NA
	AVERAGE	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

The price series on this page have been discontinued. See the explanation beginning on page 106.

[1]Wholesale refers to the price of diesel fuel sold to other refiners and resellers, including branded and unbranded jobbers and commercial accounts. Retail refers to the price at which company-owned and operated retail dealers sell to customers.
[2]Wholesale refers to the price at which refiners, resellers, retailers, and gas plants sell to one another, including sales to agricultural and industrial accounts. Excludes butane/propane mixtures.
[3]Excludes tax.
NA = Not available.
Note: • Geographic coverage is the 50 States and the District of Columbia.
Sources: • No. 2 diesel prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."
•No. 2 heating oil (residential heating oil) prices—EIA, 1976 through October 1980: FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" and EIA Form 9A, "No. 2 Distillate Price Monitoring Report"; November 1980 forward: EIA Form 9A, "No. 2. Distillate Price Monitoring Report."
•Propane and butane prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

Price - Discontinued Series

National Average Heating Oil Prices[1]

		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	**AVERAGE**	**55.9**	**53.0**	**12.8**	**65.6**
1980	**AVERAGE**	**80.0**	**82.2**	**15.8**	**97.8**
1981	January	94.9	98.6	15.1	114.4
	February	102.5	106.0	16.1	123.4
	March	102.8	106.3	17.6	125.5
	April	100.9	105.2	17.7	123.9
	May	100.7	104.0	17.6	122.7
	June	99.3	103.0	16.9	120.9
	July	98.5	102.7	17.1	121.0
	August	98.2	102.2	16.2	119.4
	September	97.8	101.6	17.2	119.7
	October	98.0	101.1	16.6	118.8
	November	100.0	102.3	17.6	120.8
	December	100.6	102.6	18.3	122.0
	AVERAGE	**99.3**	**102.6**	**16.8**	**120.5**
1982	January	99.1	101.5	19.3	122.0
	February	94.7	98.3	21.3	120.7
	March	87.4	91.3	22.6	115.3
	April	86.0	90.0	22.0	113.2
	May	91.2	95.1	18.4	114.3
	June	95.4	98.5	16.9	116.2
	July	93.8	98.6	16.3	115.8
	August	92.5	96.7	18.2	115.9
	September	93.3	97.7	16.3	115.2
	October	98.8	102.0	16.7	119.6
	November	99.2	101.5	19.0	121.6
	December	89.9	95.9	22.9	119.6
	AVERAGE	**93.2**	**97.4**	**20.2**	**118.6**

The price series on this page have been discontinued. See the explanation beginning on page 106.

[1]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.
[2]Average selling prices, purchase prices, and dealer margins represent sales for residential heating oil only.
NA=Not available.
Note: • Geographic coverage is the 50 States and the District of Columbia.
Sources: • EIA, 1976 through October 1980: FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" and EIA Form 9A, "No. 2 Distillate Price Monitoring Report"; November 1980 forward: EIA Form 9A, "No. 2 Distillate Price Monitoring Report."

Price - Discontinued Series

Residential Heating Oil Prices by Region

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

The price series on this page have been discontinued. See the explanation beginning on page 106.

[1]Standard Federal Regions are defined as follows:
Region 1 —Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island;
Region 2 —New York, New Jersey, Puerto Rico, Virgin Islands;
Region 3 —Pennsylvania, Maryland, West Virginia, Virginia, the District of Columbia, Delaware;
Region 4 —Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone;
Region 5 —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.
W = Value withheld to avoid disclosure of company data.
Sources: • EIA, January through October 1980: FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" and EIA Form 9A, "No. 2 Distillate Price Monitoring Report"; November 1980 forward: EIA Form 9A, "No. 2 Distillate Price Monitoring Report."

International

Crude Oil Production

World crude oil production during June 1984 was 54.6 million barrels per day, up 940,000 barrels per day (1.8 percent) from the May 1984 level.

Organization of Petroleum Exporting Countries (OPEC) output during June 1984 averaged 18.5 million barrels per day, up 930,000 barrels per day from the level during the previous month. Average production by Arab members of OPEC was 11.4 million barrels per day, up 700,000 barrels per day from the May 1984 level. Saudi Arabia reported the largest increase in production, 435,000 barrels per day. Production in Qatar, Algeria, and Kuwait increased in June by 100,000, 50,000, and 35,000 barrels per day, respectively. Libya reported an increase in production of 30,000 barrels per day, while Iraq and the United Arab Emirates each reported an increase of 25,000 barrels per day, during the month. Among non-Arab OPEC countries, Iran and Nigeria each reported a 100,000-barrel-per-day increase in production during June 1984, while Indonesia experienced an increase of 50,000 barrels per day. The production level in Venezuela decreased by 40,000 barrels per day during the month.

Of the non-OPEC nations, Mexico and Canada reported increases in production of 20,000 and 10,000 barrels per day, respectively, during June 1984. Production in the United Kingdom and the United States decreased by 114,000 and 9,000 barrels per day, respectively, during the month.

Petroleum Consumption

Preliminary petroleum consumption data for June 1984 were available for France, Italy, and the United States. In comparison to June 1983 levels, consumption in the United States increased by 398,000 barrels per day. Consumption in Italy and France decreased by 200,000 and 5,000 barrels per day, respectively, compared to the levels 1 year earlier.

Petroleum Stocks

Preliminary data for June 1984 indicate that petroleum stock levels were up compared to June 1983 levels in every country reporting. Petroleum stocks were up in the United Kingdom by 8.6 percent, in the United States by 6.9 percent, in Canada by 6.2 percent, in West Germany by 4.2 percent, in Japan by 3.4 percent, and in Italy by 1.3 percent.

Petroleum stocks for all Organization for Economic Cooperation and Development members stood at 3,129 million barrels on March 31, 1984 (latest data available), a decrease of 53 million barrels (1.7 percent) compared to stocks held on March 31, 1983.

Nuclear Electricity Production

In June 1984, the 20 non-Communist nations with significant nuclear power capacity generated 76.3 gross terawatthours (billion kilowatthours) of nuclear-based electricity. On a per-hour basis, this output was down 1.3 percent from May 1984 generation, but up 11.9 percent compared to the June 1983 output.

Two reactors were taken permanently out of commercial service in May 1984 and are not included in June 1984 data. In Canada, Ontario Hydro's Douglas Point, a 206-net-megawatts-electric (MWe) pressurized heavy-water reactor (PHWR), which had been in commercial operation since September 1968, was shut down on May 5, 1984. On May 6, West Germany's Karlsruhe MZER, a 52-net-MWe PHWR in commercial operation since October 1962, was shut down.

With the addition of the United States' Callaway-1 and the exclusion of Douglas Point and Karlsruhe MZER, there were 257 operable power reactors in the non-Communist countries as of June 30, 1984, with a collective gross generating capacity of 181.7 gigawatts (million kilowatts). The 83 operable U.S. units accounted for 70.7 gross gigawatts (38.9 percent) of this capacity.

International

Crude Oil Production for Major Petroleum Producing Countries

		Algeria	Iraq	Kuwait[1]	Libya	Qatar	Saudi Arabia[1]	United Arab Emirates	Arab Members of OPEC[2]	Indonesia	Iran
		Thousand barrels per day									
1973	**AVERAGE**	**1,097**	**2,018**	**3,020**	**2,175**	**570**	**7,596**	**1,533**	**18,009**	**1,339**	**5,861**
1974	**AVERAGE**	**1,009**	**1,971**	**2,546**	**1,521**	**518**	**8,480**	**1,679**	**17,724**	**1,375**	**6,022**
1975	**AVERAGE**	**983**	**2,262**	**2,084**	**1,480**	**438**	**7,075**	**1,664**	**15,986**	**1,307**	**5,350**
1976	**AVERAGE**	**1,075**	**2,415**	**2,145**	**1,933**	**497**	**8,577**	**1,936**	**18,578**	**1,504**	**5,883**
1977	**AVERAGE**	**1,152**	**2,348**	**1,969**	**2,063**	**445**	**9,245**	**1,999**	**19,221**	**1,686**	**5,663**
1978	**AVERAGE**	**1,161**	**2,563**	**2,131**	**1,983**	**487**	**8,301**	**1,831**	**18,457**	**1,635**	**5,242**
1979	**AVERAGE**	**1,154**	**3,477**	**2,500**	**2,092**	**508**	**9,532**	**1,831**	**21,094**	**1,591**	**3,168**
1980	**AVERAGE**	**1,012**	**2,514**	**1,656**	**1,787**	**472**	**9,900**	**1,709**	**19,050**	**1,577**	**1,662**
1981	**AVERAGE**	**805**	**1,000**	**1,125**	**1,140**	**405**	**9,815**	**1,474**	**15,764**	**1,605**	**1,380**
1982	January	800	1,500	805	1,000	405	8,655	1,450	14,615	1,490	1,100
	February	700	1,500	840	600	375	8,440	1,375	13,830	1,450	1,200
	March	600	1,500	745	600	300	7,145	1,365	12,255	1,400	1,800
	April	600	900	680	700	230	6,630	1,215	10,955	1,245	1,800
	May	620	750	720	800	320	5,870	1,125	10,205	1,240	2,500
	June	650	750	840	1,000	410	6,670	1,210	11,530	1,305	2,500
	July	650	800	870	1,300	275	6,170	1,160	11,225	1,305	2,500
	August	700	800	920	1,300	340	5,920	1,155	11,135	1,240	2,200
	September	800	800	885	1,400	285	5,685	1,155	11,010	1,300	2,700
	October	800	800	860	1,700	380	5,660	1,155	11,355	1,370	2,700
	November	800	800	915	1,700	310	5,615	1,155	11,295	1,400	2,700
	December	800	800	850	1,750	305	5,250	1,155	10,910	1,360	2,800
	AVERAGE	**710**	**972**	**827**	**1,158**	**329**	**6,470**	**1,214**	**11,680**	**1,339**	**2,214**
1983	January	700	850	780	1,100	255	4,950	1,060	9,695	1,225	2,700
	February	600	850	895	900	200	3,510	1,060	8,015	1,015	2,400
	March	600	900	965	900	170	3,910	1,035	8,480	1,180	2,200
	April	700	950	880	1,000	260	3,930	1,145	8,865	1,400	2,000
	May	600	1,000	1,030	1,100	275	4,725	1,175	9,905	1,400	2,300
	June	700	1,000	920	1,100	300	4,620	1,180	9,820	1,400	2,500
	July	700	1,050	1,085	1,100	300	5,535	1,175	10,945	1,490	2,800
	August	700	1,100	1,180	1,100	265	5,930	1,185	11,460	1,490	2,500
	September	700	1,050	1,375	1,150	310	6,025	1,185	11,795	1,470	2,700
	October	700	1,100	1,305	1,150	320	6,005	1,165	11,745	1,520	2,400
	November	700	1,150	1,265	1,150	460	5,915	1,195	11,835	1,560	2,300
	December	700	1,050	1,075	1,150	420	5,825	1,195	11,415	1,440	2,300
	AVERAGE	**675**	**1,005**	**1,065**	**1,075**	**295**	**5,085**	**1,145**	**10,345**	**1,385**	**2,425**
1984	January	650	1,150	1,080	1,100	440	5,130	1,200	10,750	1,470	2,000
	February	600	1,000	1,235	1,100	340	5,035	1,200	10,510	1,575	2,350
	March	600	1,200	1,290	1,100	380	4,840	1,205	10,615	1,560	2,400
	April	600	1,200	1,115	R1,150	325	5,120	1,205	R10,715	1,600	2,300
	May	650	1,200	1,100	1,150	350	5,000	1,200	10,650	1,470	2,100
	June	700	1,225	1,135	1,180	450	5,435	1,225	11,350	1,520	2,200

[1]Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In June 1984, total production in this region amounted to approximately 370,000 barrels per day.
[2]Arab members of the Organization of Petroleum Exporting Countries (OPEC) include Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.
[3]OPEC total includes production in Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, United Arab Emirates, Indonesia, Iran, Nigeria, Venezuela, Ecuador, and Gabon.
Footnotes continued on following page.

International

Crude Oil Production for Major Petroleum Producing Countries (continued)

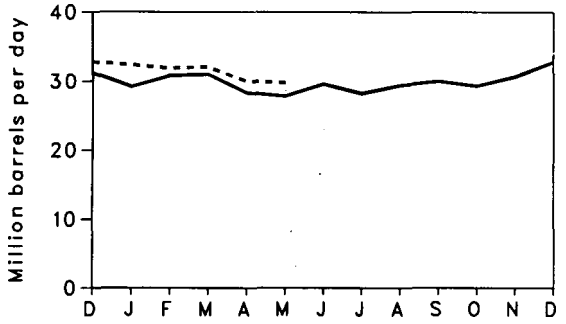
		Nigeria	Vene-zuela	Total OPEC[3]	Canada	Mexico	United Kingdom	United States	China	USSR	Other[4]	World
						Thousand barrels per day						
1973	**AVERAGE**	**2,054**	**3,366**	**30,989**	**1,800**	**465**	**2**	**9,208**	**1,090**	**8,465**	**3,655**	**55,674**
1974	**AVERAGE**	**2,255**	**2,976**	**30,729**	**1,684**	**571**	**2**	**8,774**	**1,315**	**9,000**	**3,777**	**55,852**
1975	**AVERAGE**	**1,783**	**2,346**	**27,155**	**1,439**	**705**	**12**	**8,375**	**1,490**	**9,625**	**4,079**	**52,880**
1976	**AVERAGE**	**2,067**	**2,294**	**30,738**	**1,295**	**831**	**245**	**8,132**	**1,670**	**10,143**	**4,258**	**57,312**
1977	**AVERAGE**	**2,085**	**2,238**	**31,298**	**1,320**	**981**	**768**	**8,245**	**1,874**	**10,682**	**4,517**	**59,685**
1978	**AVERAGE**	**1,897**	**2,166**	**29,805**	**1,313**	**1,209**	**1,082**	**8,707**	**2,082**	**11,185**	**4,674**	**60,057**
1979	**AVERAGE**	**2,302**	**2,356**	**30,928**	**1,496**	**1,461**	**1,568**	**8,552**	**2,122**	**11,460**	**4,948**	**62,535**
1980	**AVERAGE**	**2,055**	**2,168**	**26,891**	**1,435**	**1,936**	**1,622**	**8,597**	**2,114**	**11,773**	**5,170**	**59,538**
1981	**AVERAGE**	**1,433**	**2,102**	**22,646**	**1,285**	**2,313**	**1,811**	**8,572**	**2,012**	**11,909**	**5,352**	**55,900**
1982	January	1,765	1,985	21,285	1,218	2,315	1,905	8,509	2,020	11,900	5,488	54,640
	February	1,395	1,730	19,950	1,275	2,550	1,955	8,702	2,020	11,900	5,558	53,910
	March	945	1,870	18,615	1,182	2,545	2,000	8,667	2,020	11,900	5,341	52,270
	April	890	1,490	16,725	928	2,780	2,110	8,591	2,025	11,900	5,481	50,540
	May	1,310	1,480	17,075	1,114	2,715	2,085	8,683	2,025	11,900	5,528	51,125
	June	1,645	1,500	18,845	1,330	2,790	2,140	8,646	2,025	11,900	5,489	53,165
	July	1,280	1,800	18,450	1,235	2,790	2,120	8,658	2,025	12,000	5,507	52,785
	August	1,105	2,000	18,045	1,300	2,795	2,125	8,634	2,025	12,000	5,551	52,475
	September	1,170	1,990	18,515	1,300	2,830	2,175	8,701	2,025	12,000	5,499	53,045
	October	1,480	2,160	19,430	1,310	2,900	2,165	8,701	2,040	12,410	5,489	54,445
	November	1,355	2,300	19,415	1,420	2,940	2,220	8,697	2,040	12,410	5,683	54,825
	December	1,215	2,325	18,985	1,300	3,025	2,315	8,598	2,040	12,410	5,732	54,405
	AVERAGE	**1,295**	**1,891**	**18,784**	**1,241**	**2,749**	**2,117**	**8,649**	**2,029**	**12,000**	**5,593**	**53,162**
1983	January	880	2,085	16,975	1,230	2,980	2,135	8,697	2,085	12,410	5,888	52,400
	February	675	1,780	14,270	1,360	2,295	2,315	8,758	2,085	12,410	6,002	49,495
	March	905	2,080	15,215	1,395	2,415	2,265	8,700	2,085	12,410	5,940	50,425
	April	1,150	1,715	15,525	1,260	2,670	2,170	8,776	2,085	12,000	6,094	50,580
	May	1,625	1,685	17,285	1,320	2,795	2,235	8,631	2,085	11,900	6,084	52,335
	June	1,535	1,690	17,345	1,505	2,775	2,045	8,667	2,085	11,900	6,178	52,500
	July	1,710	1,695	19,050	1,480	2,685	2,280	8,636	2,105	11,900	6,174	54,310
	August	1,300	1,730	18,895	1,420	2,775	2,290	8,679	2,105	11,900	6,076	54,140
	September	1,220	1,725	19,295	1,435	2,735	2,385	8,784	2,105	11,900	6,146	54,785
	October	1,290	1,740	19,095	1,390	2,660	2,355	8,771	2,105	11,900	6,269	54,545
	November	1,245	1,770	19,095	1,415	2,730	2,490	8,770	2,085	11,900	6,380	54,865
	December	1,310	1,775	18,640	1,400	2,690	2,530	8,397	2,085	11,900	6,423	54,065
	AVERAGE	**1,240**	**1,790**	**17,575**	**1,385**	**2,685**	**2,290**	**8,688**	**2,090**	**12,035**	**6,137**	**52,885**
1984	January	1,360	1,810	17,780	1,310	2,670	2,515	8,659	2,190	11,900	6,556	53,580
	February	1,565	1,815	18,205	1,440	2,755	2,585	8,726	2,190	11,900	6,624	54,425
	March	1,460	1,815	18,245	1,455	2,710	2,455	8,718	2,190	11,750	6,532	54,055
	April	1,300	1,815	R18,135	1,400	2,770	2,470	8,688	2,190	11,750	R6,602	R54,005
	May	1,200	1,740	17,560	1,400	R2,800	2,439	8,752	2,190	11,900	R6,654	R53,695
	June	1,300	1,700	18,490	1,410	2,820	2,325	8,743	2,190	11,900	6,757	54,635

Footnotes continued.
[4]Other is a calculated total derived from the difference between world production and the nations represented above.
R=Revised data.
Notes: • U.S. geographic coverage is the 50 States and the District of Columbia.
• Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.
Sources: • See the last page of this section.

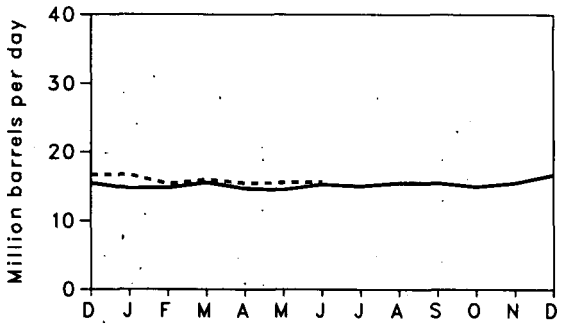
International

Petroleum Consumption

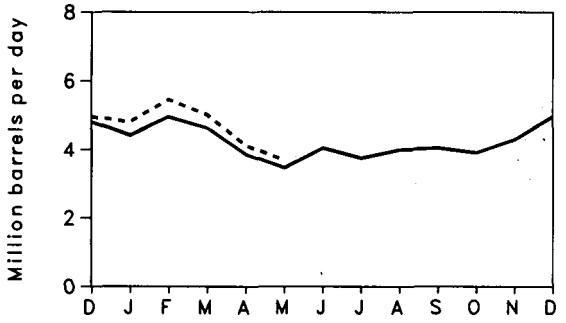
Total IEA



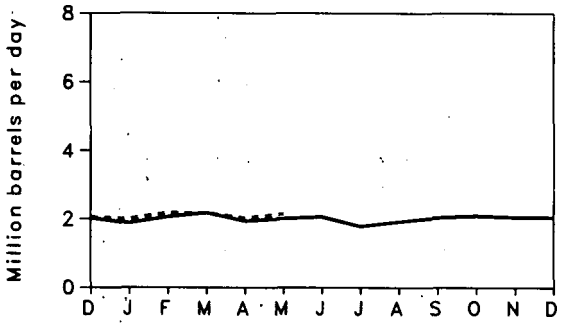
United States



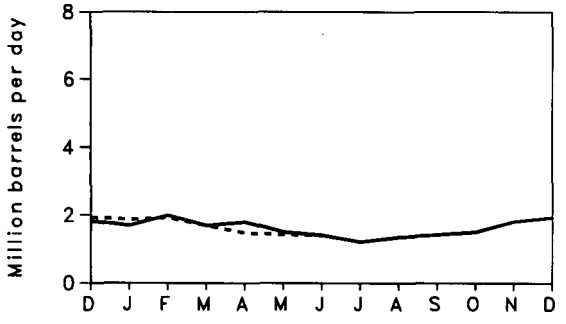
Japan*



West Germany



France**



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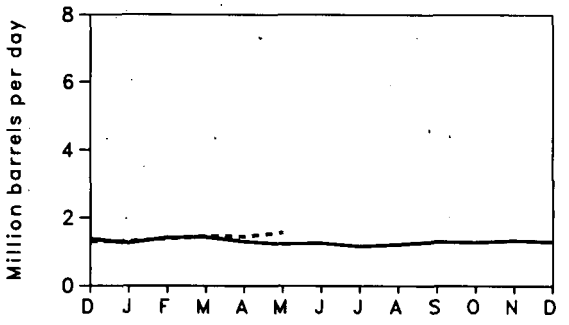

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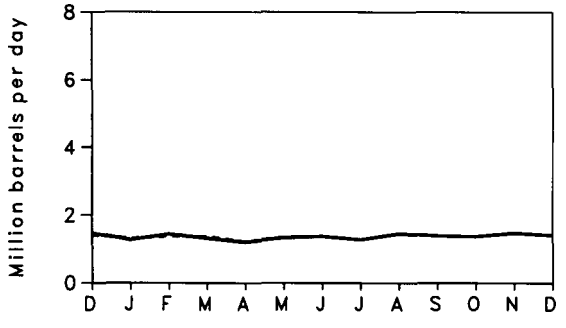
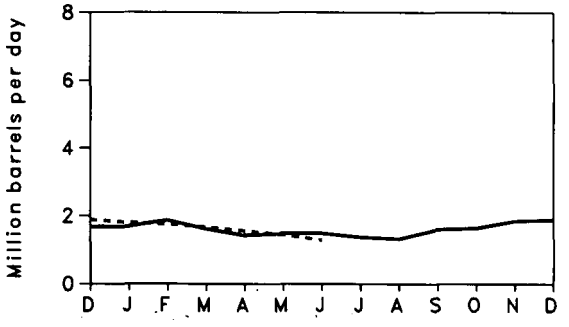


Italy***



*Excludes liquefied petroleum gases and condensates.

**Not a member of IEA.

***Principal products only.

—— 1983 ----- 1984

International

Petroleum Consumption for Major Non-Communist Industrialized Countries[1]

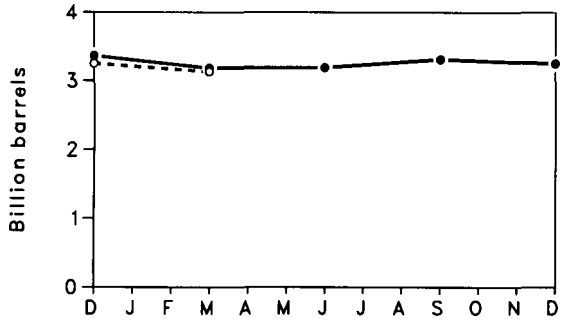
		Canada	France[2]	Italy	Japan	United Kingdom	United States	West Germany	Other IEA[3]	Total IEA[4]
						Thousand barrels per day				
1973	**AVERAGE**	**1,597**	**2,219**	**1,525**	**5,000**	**1,958**	**17,308**	**2,693**	**4,069**	**34,150**
1974	**AVERAGE**	**1,630**	**2,094**	**1,521**	**4,872**	**1,829**	**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	**AVERAGE**	**1,766**	**2,107**	**1,607**	**5,173**	**1,690**	**18,513**	**2,664**	**4,487**	**35,900**
1980	**AVERAGE**	**1,730**	**1,965**	**1,602**	**4,680**	**1,420**	**17,056**	**2,360**	**4,152**	**33,000**
1981	**AVERAGE**	**1,615**	**1,745**	**1,705**	**4,445**	**1,325**	**16,058**	**2,120**	**4,032**	**31,300**
1982	January	1,530	1,770	1,800	4,645	1,400	16,124	1,935	3,766	31,200
	February	1,715	1,815	1,795	5,275	1,465	16,001	2,230	4,219	32,700
	March	1,510	1,940	1,805	4,640	1,560	15,560	2,340	4,185	31,600
	April	1,350	1,730	1,560	4,015	1,340	16,046	2,125	3,964	30,400
	May	1,325	1,580	1,510	3,515	1,210	14,847	1,770	3,623	27,800
	June	1,430	1,505	1,520	3,780	1,280	14,998	2,115	3,877	29,000
	July	1,390	1,455	1,475	3,995	1,235	14,821	1,955	3,729	28,600
	August	1,500	1,295	1,410	3,705	1,170	14,839	2,105	3,671	28,400
	September	1,410	1,510	1,630	3,865	1,295	15,022	2,035	4,043	29,300
	October	1,335	1,605	1,555	3,830	1,305	14,859	1,922	3,894	28,700
	November	1,470	1,735	1,650	4,355	1,415	15,009	2,005	4,196	30,100
	December	1,460	1,815	1,670	4,810	1,380	15,487	2,025	4,368	31,200
	AVERAGE	**1,450**	**1,645**	**1,614**	**4,196**	**1,337**	**15,296**	**2,045**	**3,962**	**29,900**
1983	January	1,260	1,685	1,675	4,410	1,260	14,722	1,875	3,998	29,200
	February	1,430	1,985	1,865	4,950	1,415	14,792	2,060	4,288	30,800
	March	1,305	1,685	1,605	4,625	1,430	15,541	2,180	4,314	31,000
	April	1,190	1,785	1,415	3,850	1,300	14,692	1,940	3,913	28,300
	May	1,320	1,500	1,470	3,460	1,230	14,505	2,010	3,805	27,800
	June	1,360	1,405	1,475	4,040	1,255	15,289	2,060	4,121	29,600
	July	1,265	1,210	1,365	3,745	1,160	15,019	1,785	3,861	28,200
	August	1,440	1,350	1,315	3,990	1,220	15,480	1,920	4,035	29,400
	September	1,380	1,415	1,590	4,040	1,300	15,506	2,040	4,144	30,000
	October	1,360	1,495	1,625	3,900	1,280	14,962	2,090	4,083	29,300
	November	1,460	1,800	1,840	4,290	1,340	15,500	2,055	4,215	30,700
	December	1,400	1,930	1,880	4,960	1,300	16,726	2,050	4,484	32,800
	AVERAGE	**1,345**	**1,600**	**1,590**	**4,185**	**1,290**	**15,231**	**2,005**	**4,054**	**29,700**
1984	January	1,300	1,860	1,800	4,800	1,310	16,726	2,000	4,464	32,400
	February	1,370	1,915	1,750	5,450	1,380	15,389	2,180	4,381	31,900
	March	1,350	1,680	1,660	5,020	1,470	16,017	2,170	4,413	32,100
	April	1,200	1,475	1,550	4,110	1,450	15,484	2,030	4,176	30,000
	May	1,329	1,420	1,435	3,680	1,560	15,566	2,145	4,085	29,800
	June	NA	1,400	1,275	NA	NA	15,687	NA	NA	NA

[1]These 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.
[2]Not a member of the International Energy Agency (IEA).
[3]Other is a calculated total derived from the difference between total IEA consumption and the IEA nations represented above.
[4]The 21 signatory nations of the IEA are listed in Note 1 on the last page of this section. NA=Not available.
Notes: • U.S. geographic coverage is the 50 States and the District of Columbia.
• Data for 1982 through 1984 are preliminary.
Sources: • See the last page of this section.

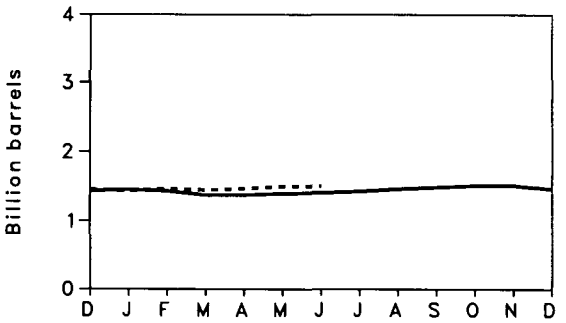
International

Petroleum Stocks

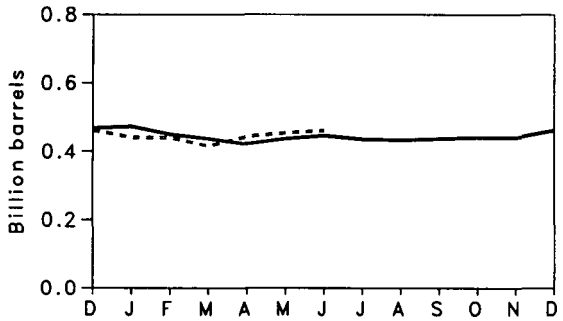
Total OECD



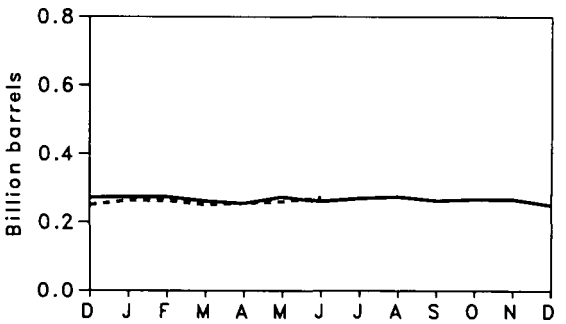
United States



Japan



West Germany



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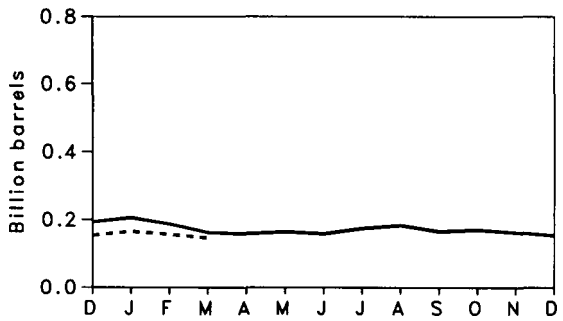

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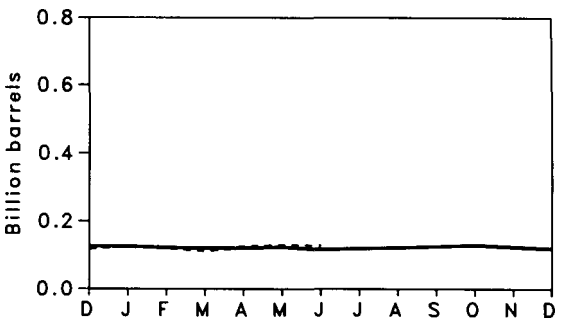
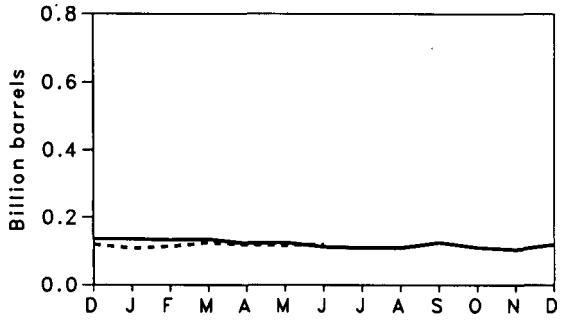


Canada



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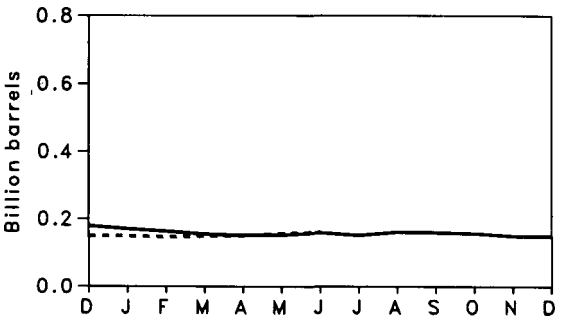

●——● 1983 ○- - -○ 1984

International

Petroleum Stocks for Major Non-Communist Industrialized Countries at End of Period[1]

		Canada	France	Italy	Japan	United Kingdom	United States	West Germany	Other OECD[2]	Total OECD[3]
						Million barrels				
1973		**149**	**203**	**NA**	**303**	**156**	**1,008**	**NA**	**NA**	**NA**
1974		**164**	**240**	**169**	**370**	**161**	**1,074**	**215**	**NA**	**NA**
1975		**167**	**239**	**143**	**375**	**164**	**1,133**	**190**	**NA**	**NA**
1976		**156**	**231**	**142**	**394**	**165**	**1,112**	**214**	**NA**	**NA**
1977		**167**	**239**	**161**	**409**	**148**	**1,312**	**225**	**524**	**3,185**
1978		**144**	**201**	**154**	**413**	**157**	**1,278**	**238**	**512**	**3,097**
1979		**150**	**226**	**163**	**460**	**169**	**1,341**	**272**	**594**	**3,375**
1980		**164**	**243**	**170**	**495**	**168**	**1,392**	**319**	**636**	**3,587**
1981		**161**	**214**	**167**	**482**	**143**	**1,484**	**297**	**583**	**3,531**
1982	January	163	222	165	464	NA	1,456	280	NA	NA
	February	156	215	162	460	NA	1,428	280	NA	NA
	March	148	198	158	479	133	1,392	279	541	3,328
	April	148	201	154	483	NA	1,346	312	NA	NA
	May	147	193	154	484	NA	1,347	310	NA	NA
	June	144	192	156	477	141	1,360	287	564	3,321
	July	130	205	160	460	134	1,393	286	NA	NA
	August	137	207	179	470	139	1,408	311	NA	NA
	September	145	207	179	470	134	1,414	280	570	3,399
	October	135	212	177	471	135	1,432	279	NA	NA
	November	138	213	174	472	130	1,455	280	NA	NA
	December	136	193	179	468	125	1,430	272	557	3,360
1983	January	136	206	170	473	125	1,452	274	NA	NA
	February	133	187	163	450	121	1,430	274	NA	NA
	March	135	162	155	437	120	1,372	262	539	3,182
	April	123	158	151	422	120	1,374	255	NA	NA
	May	125	164	152	437	123	1,394	274	NA	NA
	June	113	158	159	446	116	1,405	261	531	3,189
	July	110	174	151	436	119	1,426	270	NA	NA
	August	110	183	161	433	121	1,460	274	NA	NA
	September	125	165	160	437	125	1,485	263	550	3,310
	October	111	170	157	441	129	1,508	267	NA	NA
	November	105	162	150	440	124	1,510	267	NA	NA
	December	120	153	149	462	119	1,454	250	542	3,249
1984	January	109	R165	149	441	125	1,430	264	NA	NA
	February	114	157	146	441	121	1,464	263	NA	NA
	March	125	146	148	416	113	1,444	251	486	3,129
	April	120	NA	151	444	123	1,465	256	NA	NA
	May	117	NA	157	454	128	1,497	260	NA	NA
	June	120	NA	161	461	126	1,502	272	NA	NA

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

International

Nuclear Electricity Generation by Non-Communist Countries[1]

		Argentina	Belgium	Brazil	Canada	Finland	France	India	Italy	Japan	Netherlands	Pakistan
						Billion gross kilowatt hours						
1973	**TOTAL**	**0**	**0**	**0**	**18.3**	**0**	**11.6**	**1.9**	**3.1**	**9.4**	**1.1**	**0.5**
1974	**TOTAL**	**1.0**	**0.1**	**0**	**15.4**	**0**	**14.7**	**2.5**	**3.4**	**18.1**	**3.3**	**0.6**
1975	**TOTAL**	**2.5**	**6.8**	**0**	**13.2**	**0**	**18.3**	**2.5**	**3.8**	**22.2**	**3.3**	**0.5**
1976	**TOTAL**	**2.6**	**10.0**	**0**	**18.0**	**0**	**15.8**	**3.2**	**3.8**	**36.7**	**3.9**	**0.5**
1977	**TOTAL**	**1.6**	**11.9**	**0**	**26.8**	**2.7**	**17.9**	**2.8**	**3.4**	**28.1**	**3.7**	**0.3**
1978	**TOTAL**	**2.9**	**12.5**	**0**	**32.9**	**3.3**	**30.5**	**2.3**	**4.4**	**53.2**	**4.1**	**0.2**
1979	**TOTAL**	**2.7**	**11.4**	**0**	**38.4**	**6.7**	**39.9**	**3.2**	**2.6**	**62.0**	**3.5**	**(s)**
1980	**TOTAL**	**2.3**	**12.5**	**0**	**40.4**	**7.0**	**61.2**	**2.9**	**2.2**	**82.8**	**4.2**	**0.1**
1981	**TOTAL**	**2.8**	**12.8**	**0**	**43.3**	**14.5**	**105.2**	**3.1**	**2.7**	**86.0**	**3.7**	**0.2**
1982	January	0.3	1.3	0	4.1	1.5	11.0	0.2	0.6	8.1	0.4	(s)
	February	0.2	0.8	0	3.2	1.5	10.0	0.2	0.7	7.7	0.1	(s)
	March	0.3	0.5	0	3.5	1.7	10.6	0.2	0.7	9.2	(s)	0
	April	0.3	1.0	(s)	3.7	1.6	10.1	0.2	0.5	9.7	0.3	0
	May	0.3	1.3	(s)	3.1	1.3	9.0	0.2	0.7	9.5	0.4	0
	June	0.3	1.2	(s)	3.3	0.9	7.8	0.1	0.6	9.5	0.4	0
	July	0.2	1.3	0	3.6	1.2	8.3	0.1	0.6	9.8	0.4	0
	August	0	1.2	0	3.9	1.5	7.0	0.2	0.4	9.7	0.4	(s)
	September	(s)	0.7	0	3.2	1.5	7.2	0.1	0.6	8.0	0.4	(s)
	October	0	1.7	0	4.0	1.4	6.6	0.2	0.6	7.5	0.4	(s)
	November	(s)	1.8	0	3.3	1.3	8.3	0.3	0.3	7.8	0.4	0
	December	0.2	1.8	0	3.8	1.3	13.0	0.2	0.5	8.1	0.4	(s)
	TOTAL	**1.9**	**15.6**	**0.1**	**42.6**	**16.5**	**108.9**	**2.2**	**6.8**	**104.5**	**3.9**	**0.1**
1983	January	0.2	1.9	0	4.3	1.7	13.8	0.2	0.2	8.0	0.4	(s)
	February	0.2	1.4	0	4.5	1.5	10.9	0.1	0.1	6.8	(s)	(s)
	March	0.2	0.7	(s)	4.6	1.6	11.3	0.2	0.1	7.9	(s)	(s)
	April	0.2	1.6	(s)	4.3	1.5	10.5	0.2	0.1	8.4	0.2	(s)
	May	0.2	2.5	0	3.9	1.2	9.6	0.3	0.7	9.2	0.3	(s)
	June	0.2	2.5	0	4.4	1.0	9.3	0.3	0.7	9.1	0.4	(s)
	July	0.3	2.5	0	4.8	1.3	11.0	0.2	0.7	9.6	0.4	0
	August	0.1	2.4	0	3.8	1.6	12.1	0.3	0.5	10.5	0.4	(s)
	September	0.2	2.2	0	4.4	1.5	12.4	0.3	0.6	10.0	0.4	(s)
	October	0.2	2.2	0	4.7	1.4	13.0	0.3	0.6	10.1	0.4	(s)
	November	0.2	2.0	(s)	4.2	1.5	13.4	0.2	0.7	8.9	0.4	(s)
	December	0.2	2.1	0.1	5.0	1.7	16.8	0.3	0.7	9.7	0.4	(s)
	TOTAL	**2.5**	**24.1**	**0.2**	**53.0**	**17.4**	**144.2**	**2.9**	**5.8**	**108.4**	**3.6**	**0.2**
1984	January	0.2	2.7	(s)	5.0	1.7	18.0	0.2	0.4	9.8	0.3	(s)
	February	0.2	2.3	0.2	4.6	1.6	17.1	0.2	0.6	8.9	0.4	0
	March	0.2	1.9	0.1	5.1	1.7	17.8	0.2	0.7	8.4	0.2	0
	April	0.2	2.4	(s)	4.3	1.6	15.4	0.2	0.3	8.5	0.2	(s)
	May	0.2	2.0	0.1	3.6	1.2	14.2	0.3	0.3	10.0	0.4	(s)
	June	0.2	2.6	0.0	3.7	1.3	12.8	0.3	0.3	9.3	0.4	(s)

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

International

Nuclear Electricity Generation by Non-Communist Countries[1] (continued)

		South Africa	South Korea	Spain	Sweden	Switzer-land	Taiwan	United Kingdom[2]	West Germany	Non-Communist World Excluding U.S.	United States	Total Non-Communist World
						Billion gross kilowatt hours						
1973	**TOTAL**	**0**	**0**	**6.5**	**2.1**	**6.2**	**0**	**28.0**	**11.9**	**100.7**	**88.0**	**188.7**
1974	**TOTAL**	**0**	**0**	**7.2**	**1.6**	**7.0**	**0**	**34.0**	**12.0**	**121.1**	**104.5**	**225.6**
1975	**TOTAL**	**0**	**0**	**7.5**	**12.0**	**7.7**	**0**	**30.5**	**21.7**	**152.7**	**181.7**	**334.4**
1976	**TOTAL**	**0**	**0**	**7.6**	**16.0**	**7.9**	**0**	**36.8**	**24.5**	**187.3**	**201.8**	**389.1**
1977	**TOTAL**	**0**	**0.1**	**6.5**	**19.9**	**8.1**	**0.1**	**38.1**	**35.8**	**207.8**	**263.3**	**471.0**
1978	**TOTAL**	**0**	**2.3**	**7.6**	**23.8**	**8.3**	**2.7**	**36.7**	**35.9**	**263.6**	**292.7**	**556.3**
1979	**TOTAL**	**0**	**3.2**	**6.7**	**21.0**	**11.8**	**6.3**	**38.5**	**42.2**	**300.1**	**270.6**	**570.7**
1980	**TOTAL**	**0**	**3.5**	**5.2**	**26.7**	**14.3**	**8.2**	**37.2**	**43.7**	**354.4**	**265.4**	**619.8**
1981	**TOTAL**	**0**	**2.9**	**9.4**	**37.7**	**15.2**	**10.7**	**38.9**	**53.4**	**442.4**	**288.5**	**730.9**
1982	January	0	0.4	1.0	4.0	1.5	0.8	3.4	5.9	44.5	27.1	71.6
	February	0	0.4	0.9	3.3	1.3	1.0	3.5	5.4	40.0	21.3	61.3
	March	0	0.4	0.5	3.8	1.5	1.0	4.1	5.3	43.2	24.0	67.1
	April	0	0.2	0.4	3.8	1.4	0.8	3.3	5.3	42.5	22.8	65.3
	May	0	0	0.5	2.5	1.2	0.8	2.6	5.6	39.0	22.8	61.8
	June	0	(s)	0.7	1.9	0.6	1.0	3.3	4.2	35.6	25.3	60.9
	July	0	0.3	0.6	1.2	0.9	1.2	3.3	4.5	37.6	26.8	64.4
	August	0	0.4	0.7	2.0	1.0	1.2	3.7	4.5	37.7	26.4	64.1
	September	0	0.4	0.7	3.7	1.2	1.3	4.2	5.4	38.6	26.7	65.3
	October	0	0.4	1.0	4.2	1.5	1.4	3.7	5.2	39.8	25.4	65.3
	November	0	0.4	0.9	4.0	1.4	1.1	3.8	5.8	41.0	24.2	65.3
	December	0	0.4	0.9	4.2	1.5	1.4	5.1	6.5	49.2	25.8	75.0
	TOTAL	**0**	**3.8**	**8.8**	**38.8**	**15.0**	**13.1**	**44.1**	**63.4**	**489.9**	**298.6**	**788.5**
1983	January	0	0.5	1.0	4.2	1.5	1.5	4.3	6.5	50.0	27.4	77.4
	February	0	0.4	0.9	3.7	1.4	0.8	4.3	5.6	42.7	23.8	66.5
	March	0	0.6	0.9	4.1	1.5	1.8	4.9	6.0	46.7	25.0	71.7
	April	0	0.4	0.8	3.3	1.5	1.7	4.3	4.0	43.1	23.4	66.5
	May	0	0.2	0.4	2.4	1.2	2.0	3.4	2.9	40.6	23.9	64.5
	June	0	0.7	0.6	2.4	0.5	2.0	3.9	4.2	42.4	25.7	68.2
	July	0	0.7	0.6	1.6	1.2	1.6	3.3	5.1	44.9	27.3	72.2
	August	0	1.1	1.0	2.7	1.0	1.4	3.7	4.6	47.3	27.9	75.1
	September	0	1.1	1.0	3.0	1.4	1.2	4.4	6.0	50.1	26.4	76.5
	October	0	0.8	1.1	3.6	1.5	1.6	3.7	7.6	52.9	27.6	80.5
	November	0	1.2	1.1	4.5	1.4	1.6	3.9	7.1	52.5	26.6	79.1
	December	0	1.3	1.4	5.0	1.5	1.7	5.5	6.2	59.5	28.6	88.1
	TOTAL	**0**	**9.0**	**10.7**	**40.5**	**15.5**	**18.9**	**50.0**	**65.8**	**572.6**	**313.6**	**886.3**
1984	January	0	1.3	1.5	5.3	1.5	1.7	4.4	6.9	61.0	30.8	91.8
	February	0	1.2	1.5	5.0	1.4	1.8	4.6	7.4	58.9	29.4	88.3
	March	0	1.0	1.4	5.4	1.5	2.0	4.8	7.1	59.7	28.6	88.3
	April	0.1	0.9	1.3	4.5	1.5	1.8	4.2	6.4	53.7	24.7	78.4
	May	R0.1	0.8	1.9	3.3	1.3	1.4	4.3	7.2	52.5	27.3	79.8
	June	0.3	0.7	2.2	2.8	0.6	1.8	4.7	6.1	49.9	26.4	76.3

Footnotes continued.
Notes: • U.S. geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • See the last page of this section.

Notes and Sources for the International Section

Notes

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

Sources

Crude Oil Production: • 1973-1982 annual data: Energy Information Administration, *1982 International Energy Annual.*
• U.S. annual and monthly data: Energy Information Administration, *Petroleum Supply Monthly.*
• 1982-1984 monthly data (except U.S. and World): Central Intelligence Agency, "International Energy Statistical Review," and other industry sources.
• 1982-1984 monthly data for World: Sum of data for all countries using above sources.
Petroleum Consumption: • Central Intelligence Agency, "International Energy Statistical Review" (except the United States).
• United States data: Energy Information Administration, *Petroleum Supply Monthly.*
• IEA totals for latest months are Energy Information Administration estimates.
Petroleum Stocks: • United States data: Energy Information Administration, *Petroleum Supply Monthly.* • Other OECD data: OECD, *Quarterly Oil Statistics;* Comite Professionnel du Petrole, *Bulletin Mensuel.* • Total OECD: Sum of data for all OECD member countries using above sources.
Nuclear Electricity Generation: • *Nucleonics Week.*

Conversion Factors

Approximate Heat Content

Refined Petroleum Product	Million Btu per Barrel
Asphalt	6.636
Aviation gasoline	5.048
Butane	4.326
Butane-propane mixture[1]	4.130
Distillate fuel oil	5.825
Ethane	3.082
Ethane-propane mixture[2]	3.308
Isobutane	3.974
Jet fuel—kerosene type	5.670
Jet fuel—naphtha type	5.355
Kerosene	5.670
Lubricants	6.065
Motor gasoline	5.253
Natural gasoline	4.620
Petrochemical feedstocks	
Naphtha 400° F or less	5.248
Other oils over 400° F	5.825
Still gas	6.000
Petroleum coke	6.024
Plant condensate	5.418
Propane	3.836
Residual fuel oil	6.287
Road oil	6.636
Special naphtha	5.248
Still gas	6.000
Unfinished oils	5.825
Unfractionated stream	5.418
Wax	5.537
Miscellaneous	5.796

[1] 60 percent butane and 40 percent propane.
[2] 70 percent ethane and 20 percent propane.

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_3O_8)	contains	0.769 metric tons of uranium
1 short ton (UF_6)	contains	0.613 metric tons of uranium
1 metric ton (UF_6)	contains	0.676 metric tons of uranium

Price Indexes, 1972=100.0

	Gross National Product Implicit Price Deflator	Consumer Price Index, All Urban Consumers, All Items
1972	100.00	100.0
1973	105.75	106.2
1974	115.08	117.9
1975	125.79	128.7
1976	132.34	136.1
1977	140.05	144.9
1978	150.42	155.9
1979	163.42	173.5
1980	178.42	197.0
1981	195.14	217.4
1982	206.88	230.7
1983	215.67	238.1

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

Approximate Heat Content of Fuels

	Units	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983-84‡
Coal												
Production	Million Btu/short ton	23.27	22.96	22.81	22.85	22.49	22.17	22.38	22.35	22.25	22.20	22.02
Consumption	Million Btu/short ton	22.94	22.56	22.39	22.39	22.14	21.93	22.01	21.87	21.65	21.63	21.55
Non-utility	Million Btu/short ton	24.48	24.38	24.35	24.45	24.33	24.12	24.23	24.35	24.15	23.92	23.80
Electric utility	Million Btu/short ton	22.24	21.78	21.64	21.68	21.47	21.27	21.37	21.29	21.08	21.20	21.16
Imports	Million Btu/short ton	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
Exports	Million Btu/short ton	26.59	26.70	26.56	26.60	26.55	26.48	26.55	26.28	26.08	26.22	26.29
Anthracite												
Production	Million Btu/short ton	23.17	22.56	23.39	22.77	23.18	23.52	23.59	23.35	23.69	23.69	23.75
Consumption	Million Btu/short ton	22.71	21.95	21.74	22.15	22.69	22.97	22.70	22.16	22.10	23.00	22.80
Non-utility	Million Btu/short ton	24.34	23.75	23.65	23.84	24.99	25.17	25.20	23.74	25.12	25.37	25.20
Electric utility*	Million Btu/short ton	17.92	17.20	17.06	17.53	17.24	17.10	17.45	17.65	18.17	18.16	18.15
Imports and exports	Million Btu/short ton	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40
Bituminous coal and lignite												
Production	Million Btu/short ton	23.267	22.970	22.802	22.849	22.482	22.157	22.374	22.343	22.243	22.188	22.015
Consumption	Million Btu/short ton	22.937	22.564	22.402	22.393	22.142	21.921	22.014	21.874	21.645	21.624	21.547
Residential and commercial	Million Btu/short ton	22.887	22.523	22.258	22.819	22.594	22.078	21.884	22.488	22.191	22.373	22.300
Coke plants	Million Btu/short ton	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000
Other industrial & transp.	Million Btu/short ton	22.585	22.420	22.439	22.528	22.290	22.175	22.436	22.690	22.572	22.694	22.650
Electric utility	Million Btu/short ton	22.260	21.800	21.660	21.690	21.480	21.280	21.380	21.300	21.090	21.200	21.160
Imports	Million Btu/short ton	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000
Exports	Million Btu/short ton	26.612	26.716	26.573	26.613	26.561	26.501	26.570	26.404	26.176	26.231	26.300
Coal coke	Million Btu/short ton	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
Crude petroleum[1]												
Production	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800
Imports	Million Btu/barrel	5.817	5.827	5.821	5.808	5.810	5.802	5.810	5.812	5.818	5.826	5.824
Exports	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800
Crude petroleum and products												
Imports	Million Btu/barrel	5.897	5.884	5.858	5.856	5.834	5.839	5.810	5.796	5.775	5.775	5.768
Exports	Million Btu/barrel	5.752	5.774	5.748	5.745	5.797	5.808	5.832	5.820	5.821	5.820	5.800
Petroleum products												
Consumption	Million Btu/barrel	5.515	5.504	5.494	5.504	5.518	5.519	5.494	5.479	5.448	5.415	5.410
Residential and commercial	Million Btu/barrel	5.387	5.377	5.358	5.383	5.389	5.382	5.471	5.468	5.409	5.392	5.361
Industrial	Million Btu/barrel	5.565	5.537	5.527	5.536	5.552	5.546	5.416	5.376	5.310	5.262	5.279
Transportation	Million Btu/barrel	5.397	5.394	5.392	5.396	5.402	5.407	5.430	5.440	5.434	5.423	5.412
Electric utility	Million Btu/barrel	6.245	6.238	6.250	6.251	6.249	6.251	6.258	6.254	6.258	6.258	6.254
Imports	Million Btu/barrel	5.983	5.959	5.935	5.980	5.908	5.955	5.811	5.748	5.659	5.664	5.660
Exports	Million Btu/barrel	5.752	5.773	5.747	5.743	5.796	5.814	5.864	5.841	5.837	5.829	5.800
LPG consumption average[2]	Million Btu/barrel	3.746	3.730	3.715	3.711	3.677	3.669	3.680	3.674	3.643	3.615	3.612
Natural gas plant liquid												
Production	Million Btu/barrel	4.049	4.011	3.984	3.964	3.941	3.925	3.955	3.914	3.930	3.872	3.859
Natural gas, dry												
Production	Btu/cubic foot	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,026	1,027	1,028	1,028
Consumption*	Btu/cubic foot	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,026	1,027	1,028	1,028
Non-utility consumption	Btu/cubic foot	1,020	1,024	1,020	1,019	1,019	1,016	1,018	1,024	1,026	1,026	1,026
Electric utility consumption*	Btu/cubic foot	1,024	1,022	1,026	1,023	1,029	1,034	1,034	1,034	1,033	1,035	1,035
Imports*	Btu/cubic foot	1,026	1,027	1,026	1,025	1,026	1,030	1,037	1,022	1,014	1,018	1,018
Exports*	Btu/cubic foot	1,023	1,016	1,014	1,013	1,013	1,013	1,013	1,013	1,011	1,011	1,011
Wet natural gas production	Btu/cubic foot	1,093	1,097	1,095	1,093	1,093	1,088	1,092	1,098	1,103	1,107	1,107

Approximate Heat Rates for Electricity

Hydropower generation[3]	Btu/kWh	10,389	10,442	10,406	10,373	10,435	10,361	10,353	10,388	10,453	10,470	10,470
Nuclear power generation[3]	Btu/kWh	10,903	11,161	11,013	11,047	10,769	10,941	10,879	10,908	11,030	11,015	11,015
Geothermal power generation[3]	Btu/kWh	21,674	21,674	21,611	21,611	21,611	21,611	21,545	21,639	21,639	21,594	21,594
Electricity consumption	Btu/kWh	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412

[1] Includes lease condensate.
[2] LPG consumption average is the annual weighted average of the LPG product supplied components: ethane, ethylene, propane, propylene, butane, butylene, butane-propane mixture, ethane-propane mixture, and isobutane.
[3] There is no generally accepted practice for measuring hydropower thermal conversion rates. The hydropower factors on this page are the prevailing rate factors at fossil fuel steam electric powerplants. By using the heat rate factor, it is possible to evaluate fossil fuel requirements for replacing hydropower production during periods of drought. Furthermore, it allows for better comparisons with certain other countries such as Norway where hydropower is the principal means for producing electricity. Similarly, the nuclear power and geothermal power conversion factors represent the thermal conversion equivalent of the uranium and geothermal steam consumed at powerplants. The heat content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatthour.
* Based on data reported in Energy Information Administration (and predecessor) surveys.
‡ Preliminary data.
Note: A listing of sources for the approximate heat content values are published in the *1983 Annual Energy Review*, DOE/EIA-0384(83).

Glossary

Anthracite. A hard, jet black, high-luster coal containing a high percentage of fixed carbon and a low percentage of volatile matter and having an ignition temperature of about 900° F. Domestic anthracite is mined almost exclusively in northeastern Pennsylvania and is often referred to as hard coal. It is used for generating electricity and for space heating. It includes meta-anthracite and semianthracite and conforms to ASTM Specification D388 for anthracite.

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

Bituminous Coal. A dense, black coal that often has well-defined bands of bright and dull material. It has a volatility greater than anthracite and a calorific value greater than lignite. In the United States, it is often referred to as soft coal and is used for electricity generation, coke production, and space heating. It includes subbituminous coal and conforms to ASTM Specification D388 for bituminous coal and subbituminous coal.

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

Butane. A normally gaseous, colorless, paraffinic hydrocarbon (C_4H_{10}) extracted from natural gas and refinery gas streams. Included are isobutane, a branch-chain configuration of $(CH_3)_3CH$ with a boiling point of 10.9° F. and normal butane, a straight-chain configuration of C_4H_{10} with a boiling point of 31.1° F. Butane is used primarily for blending into motor gasoline, for residential and commercial heating, and for industrial uses, especially the manufacture of chemicals and synthetic rubber.

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

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

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

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

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

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

Degree-Days. See **Cooling Degree-Days, Heating Degree-Days, Population-Weighted Degree-Days,** and **Degree-Day Normals.**

Distillate Fuel Oil. Light fuel oils distilled during the refining process. Included are products known as No. 1, No. 2, and No. 4 fuel oils; and No. 1, No. 2, and No. 4 diesel fuels that 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 fuel for agricultural machinery), and electric power generation.

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

Ethane. A normally gaseous, colorless, paraffinic, straight-chain hydrocarbon (C_2H_6) with a boiling point of -127.48° F. extracted from natural gas and refinery gas streams. Ethane

is used primarily as petrochemical feedstock for production of chemicals and plastic materials.

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

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

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

Isobutane. See **Butane.**

Landed Cost of Imported Crude Oil. Includes the purchase price at the foreign port (or U.S. land border), transportation and insurance costs, wharfage and demurrage, brokerage fees, import fees and duties, and license (ticket) fees. Averages are based on major importers, which account for an estimated 90 to 95 percent total crude oil imports. Coverage includes the United States and its territories.

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

Lignite. A brownish-black coal with a high moisture content. It is also referred to as brown coal. Domestic lignite is mined in North Dakota, Montana, and Texas and is used mainly for electric power generation. It conforms to ASTM Specification D388 for lignite.

Line Miles of Seismic Exploration. The distance along the earth's surface that is covered by seismic surveying.

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

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

Motor Gasoline, Finished. A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition engines and conforming to ASTM Specification D439. Included are finished leaded gasoline, finished unleaded gasoline, and gasohol. Excludes blendstock until blending has been completed and excludes alcohol that is to be used in the blending of gasohol.

Motor Gasoline, Premium Grade. Finished motor gasoline that has an antiknock designation of 3 or more for unleaded motor gasoline and 4 or more for leaded motor gasoline.

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

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

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

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

Normal Butane. See **Butane.**

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

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

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

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

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

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

Propane. A normally gaseous, colorless, paraffinic, straight-chain hydrocarbon (C_3H_8) with a boiling point of -43.67° F. It is extracted from natural gas and refinery gas streams. Propane is used primarily for residential and commercial heating and cooling, and also as a fuel for transportation and industrial uses, including petrochemical feedstocks.

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

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

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

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

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.

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

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

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

Wells, Exploratory and Development. Holes drilled for the purpose of finding or producing crude oil or natural gas. They include wells classified as oil wells, gas wells, or dry holes.

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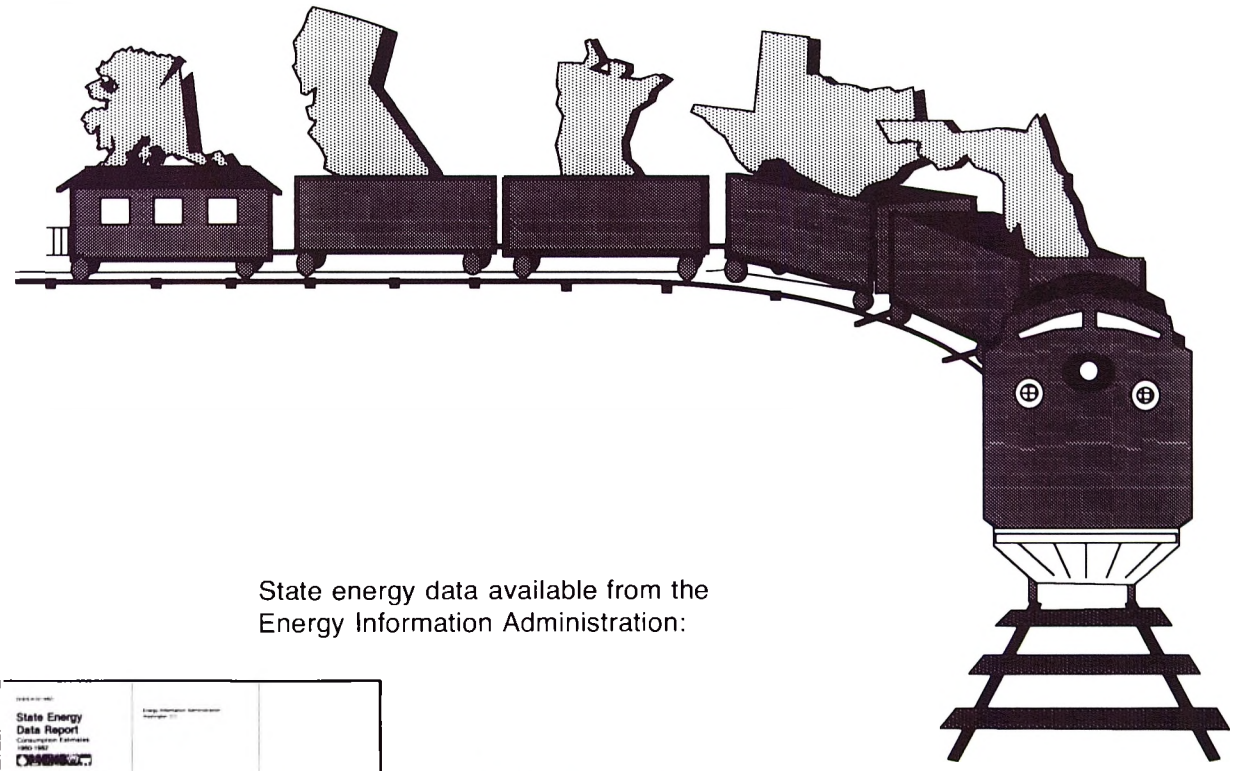

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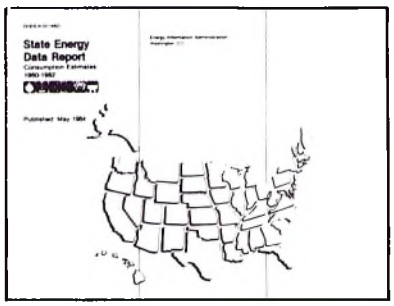

State Energy Data Report: Consumption Estimates 1960–1982. Annual data on energy consumption by State, by energy source, and by economic sector; data by Census region included for the first time. Extensive documentation of the methodology used to produce estimates.
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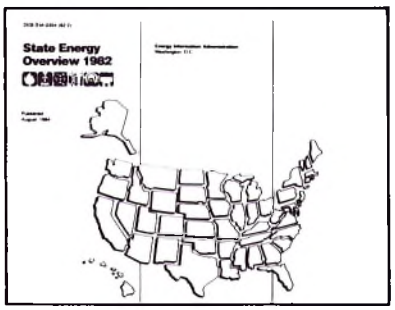

State Energy Overview 1982. Selected energy-related data for the United States, each State, and the District of Columbia: energy production and consumption; fuel reserves; summary energy expenditures and prices; and energy-related information such as motor vehicle registration.
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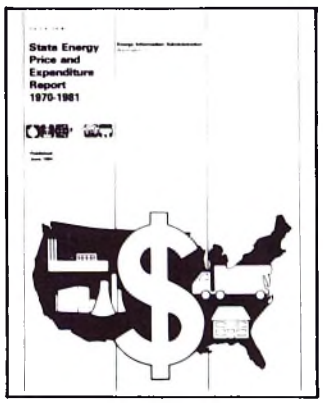

State Energy Price and Expenditure Report 1970–1981. Annual State, District of Columbia, and U.S. totals for energy prices and expenditures. Data are also presented by type of energy source, including petroleum products, and economic sector.
Published: June 1984.
241 pp. $8.00.
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