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Monthly Energy Review

Energy Information Administration Washington, D.C.

December 1984







1984 Annual Data and Summaries





Published: March 1985



Monthly Energy Review

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

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

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

The *Monthly Energy Review* is intended to provide timely energy information to Members of Congress, to Federal and State agencies, and to the general public.

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Office of Energy Markets
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Articles

Feature articles on energy-related subjects are occasionally included in this publication. The following articles have appeared in issues since the beginning of 1981. A list of the articles included 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 AdministrationSeptember	1981
An Overview of Natural Gas MarketsDecember	1981
The Interstate and Intrastate Natural Gas MarketsJanuary	1982
Natural Gas Drilling and Production Under the Natural Gas Policy Act February	1982
Impacts of Financial Constraints on the Electric Utility IndustryOctober	1982
The Effect of Weather on Energy UseApril	1983
Trends in U.S. Energy Since 1973May	1983
Data Series on Petroleum Use at Electric UtilitiesJuly	1983
Residential Energy Consumption, 1978 Through 1981September	1983
Exploring for Oil and GasNovember	1983
The Influence of Federal Actions on Petroleum Exploration December[2]	1983
Aggregate Statistics: Accurate or Misleading? December[3]	1983

Highlights

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

U.S. Crude Oil, Natural Gas, and Natural Gas Liquids	
Reserves, 1981 Annual ReportSeptember	1982
Energy Company Development Patterns in the	
Postembargo Era, Volume OneNovember	1982
Residential Energy Consumption Survey:	
Consumption and ExpendituresJanuary	1983
Residential Energy Consumption Survey:	
Housing Characteristics February	1983
Energy Price and Expenditure Data Report, 1970–1980July	1983
Railroad Deregulation: Impact on CoalAugust	1983
Port Deepening and User Fees: Impact on U.S. Coal ExportsAugust	1983
U.S. Crude Oil, Natural Gas, and Natural Gas Liquids	
Reserves, 1982 Annual ReportSeptember	1983
Annual Energy Review 1983February	1984
State Energy Data Report, Consumption Estimates, 1960-1982	1984
Annual Energy Outlook 1983March	1984
State Energy Price and Expenditure Report, 1970-1981 May	1984
Solar Collector Manufacturing Activity 1983	1984
Estimates of U.S. Wood Energy Consumption, 1980–1983September	1984
International Energy Annual 1983September	1984
Energy Conservation Indicators 1983 Annual ReportNovember	1984

Highlights of

Annual Energy Outlook 1984

introduction

Stable world oil prices, continued economic growth, and continued energy conservation dominate the Energy Information Administration's most recent midterm outlook. Projections of U.S. energy supply and demand for 1985 through 1990 and for 1995 are published in the January 1985 release of the *Annual Energy Outlook 1984*.

Several scenarios based on different assumptions about U.S. economic growth and world oil prices are examined. The projections presented in the report represent potential outcomes based on the assumptions and judgments analysts have used to determine the projections. Other outcomes are likely if the underlying assumptions are changed, and projections for the years beyond 1990 are especially uncertain. This summary capsulizes the base case scenario and concentrates primarily on projections to 1990.

Energy Consumption

Using the base case assumptions for world oil prices and U.S. economic growth (see box), U.S. energy consumption is projected to rise from an estimated

¹All prices are expressed in 1984 constant dollars.

Base Case Assumptions

World oil prices (the average of imported and domestic refiner acquisition costs, expressed in 1984 dollars) are assumed to decrease from \$29 per barrel in 1984 to \$28 per barrel in 1985 and \$27 per barrel in 1986, to hold steady in 1987, and then to rise slowly to \$30 per barrel in 1990. The price in 1995 is assumed to be \$40 per barrel. These prices are lower than the prices assumed in last year's forecast.

GNP is assumed to increase at an average annual rate of 3.1 percent from 1985 to 1990, then to slow to an average annual growth rate of 2.3 percent from 1990 to 1995. These growth rates exceed the rates assumed in last year's forecast.

76 quadrillion British thermal units (Btu) in 1985 to 84 quadrillion Btu in 1990. Most of the increase in energy consumption is projected to occur in the industrial sector, where relatively large increases in manufacturing output are assumed, and in the commercial sector, where floor space is assumed to increase along with the growing economy. The increase in residential energy use is expected to be modest, due to slow growth in the housing stock. Transportation sector use of energy is expected to remain unchanged from 1985 to 1990, as improvements in automobile efficiency are projected to offset increases in vehicle-miles traveled.

From 1985 to 1990, while energy consumption is projected to increase, the energy intensity of the economy, as measured by gross energy consumption per constant dollar of gross national product (GNP). is projected to decrease, although at a slower rate than in recent years. From 1978 to 1983, energy use per constant dollar of GNP declined at an average annual rate of 3.3 percent; from 1985 to 1990, the decrease is projected to be 1.0 percent per year. The slower projected decline is attributed to three factors: lower world oil prices: renewed strength in energyintensive industries; and greater electrification, which increases the energy intensity of the economy because of the energy losses involved in the generatransmission. and distribution tion. electricity.

Petroleum

Petroleum consumption is expected to increase from 15.8 million barrels per day in 1985 to 16.7 million barrels per day in 1990 (Table 1). Domestic oil

Table 1. Petroleum Consumption, Production, and Net Imports, History and Projections (Million Barrels per Day)

Year	Consumption	Production ¹	Net Imports ²
1984‡	15.9	11.0	4.8
1985	15.8	11.1	4.9
1990	16.7	10.3	6.6
1995	18.0	9.4	8.7

¹Production includes crude oil, natural gas tiquids, refinery gains, hydrogen, and other hydrocarbons.

²Includes imports for the Strategic Petroleum Reserve.

‡Preliminary data.

production is projected to fall from 11.1 million barrels per day in 1985 to 10.3 million barrels per day in 1990. As a result, net imports of petroleum are projected to rise to 6.6 million barrels per day in 1990, compared to 4.9 million barrels per day projected for 1985.

The outlook for oil supply and demand in 1995 is uncertain because of increasing pressure on productive capacity among members of the Organization of Petroleum Exporting Countries. In addition, changes in leasing of Federal lands, energy taxes, and environmental regulations all could affect the U.S. oil supply.

Natural Gas

Consumption of natural gas is expected to increase modestly from 18.2 trillion cubic feet in 1985 to 18.8 trillion cubic feet in 1990 and then to remain at that level through 1995. Production of natural gas, however, is expected to peak in 1988 and then to decline to 16.4 trillion cubic feet in 1995. Increases in net imports of natural gas from Canada are expected to supplement domestic production.

Real natural gas prices are expected to remain stable through 1986 and then to increase gradually through 1990: delivered prices to consumers are expected to increase by 4 percent per year from 1986 to 1990. Although higher rates of increase in prices are projected for 1990 to 1995, natural gas prices are projected to remain below a level competitive with oil until near the end of the forecast period, when some electric utilities are projected to switch from natural gas to oil.

Coal

Domestic coal consumption is projected to increase after 1985, reaching 960 million short tons in 1990

Table 2. Energy Prices, History and Projections (In 1984 Dollars)

Year	Per Barrel of Crude Oil ¹	Per Mcf of Natural Gas ²	Per Short Ton of Coal ³	Per Thou- sand kWh of Electricity ⁴
19841	\$29.00	\$2.70	\$30.02	\$63.54
1985	28.00	2.67	29.89	64.22
1990	30.00	3.52	30.95	63.55
1995	40.00	5.05	31.88	62.44

¹Average of imported and domestic refiner acquisition costs.

and 1.1 billion short tons in 1995 (26 percent of primary energy consumption). Production increases are projected to exceed the growth in domestic consumption; production is projected to reach 1.1 billion short tons in 1990 and over 1.2 billion short tons in 1995. Coal exports are expected to reach 106 million short tons by 1995, a figure much lower than was expected a few years ago because of both a reduction in world coal trade and more successful competition by foreign producers.

Coal's future share of electricity generation is constrained by the amount of available coal-fired generating capacity. By 1990, completion of projects now under construction will allow coal's share of electricity generation to remain stable at 55 percent.

Electric Utilities

From 1985 to 1995, electricity generation is projected to increase by 3.2 percent per year. To meet the increase in demand, construction of 106 gigawatts of new generating capacity is projected by 1995. This 15-percent increase in capacity, combined with the projected growth in electricity generation, is expected to result in a national reserve margin of 27 percent by 1995, about half of the 1983 reserve margin.

Electricity is the only major energy source for which a decline in the real price is projected from 1985 to 1995 (Table 2). Average electricity prices are projected to decline by 0.2 percent per year in real terms from 1985 to 1990, and to continue to decline, at a somewhat faster rate, from 1990 to 1995. These declines can be attributed in part to relatively smaller capital cost additions to rate bases for power plant construction than in recent years.

The Report

In addition to midterm forecasts of U.S. energy supply and demand, the *Annual Energy Outlook 1984* compares this year's projections to previous EIA projections and to projections published by other organizations, including several in the private sector. The 354-page report includes a section on the forecast methodology and assumptions.

Easy to Order

The Annual Energy Outlook 1984 may be obtained for \$10 per copy by using the order form in the back of this publication.

²Average wellhead price.

³Average minemouth price. ⁴Average price to all end-use sectors.

[‡]Preliminary data.

Production

Energy production during December 1984 totaled 5.3 quadrillion Btu, virtually unchanged from the level of production during December 1983. Petroleum production increased 5.4 percent compared to the level 1 year earlier. Coal production decreased 4.1 percent, natural gas production decreased 1.8 percent, and production of all other forms of energy combined decreased 0.8 percent compared to December 1983 levels.

Consumption

Energy consumption during December 1984 totaled 6.6 quadrillion Btu, 9.5 percent below the level of consumption during December 1983. Natural gas consumption decreased 18.9 percent, petroleum consumption was down 8.4 percent, and coal consumption decreased 1.7 percent. Consumption of all other forms of energy combined decreased 0.1 percent compared to consumption during December 1983.

Net Imports

Net imports of energy during December 1984 totaled 0.7 quadrillion Btu, 13.5 percent below the level of net imports during December 1983. Net imports of natural gas decreased 11.8 percent and net imports of petroleum decreased 11.1 percent. Net exports of coal were up 4.3 percent compared to the level in December 1983.

Energy Summary (Quadrillion (1015) Btu)

	December			Cumulative January through December				
	1984	1983	Percent Change ¹	1984	1984 Dally Rate	1983	1983 Daily Rate	Percent Change ¹
Total Production	5.307	5.308	0.0	65.508	0.179	61.196	0.168	+6.8
Petroleum ²	1.784	1.693	+5.4	20.956	0.057	20.576	0.056	+1.6
Natural Gas (Dry)	1.549	1.577	-1.8	17.750	0.048	16.530	0.045	+7.1
Coal	1.348	1.405	-4.1	19.696	0.054	17.252	0.047	+13.9
Other ³	0.627	0.632	-0.8	7.106	0.019	6.838	0.019	+3.6
Total Consumption	6.557	7.246	-9.5	73.730	0.201	70.497	0.193	+4.3
Petroleum ⁴	2.567	2.803	-8.4	31.004	0.085	30.054	0.082	+2.9
Natural Gas ^a	1.832	2.259	-18.9	18.031	0.049	17.352	0.048	+3.6
Coal	1.497	1.523	-1.7	17.203	0.047	15.900	0.044	+7.9
Other ^e	0.661	0.661	-0.1	7.491	0.020	7.191	0.020	+3.9
Net Imports	0.656	0.758	-13.5	8.893	0.024	8.306	0.023	+6.8
Petroleum ⁷	0.698	0.786	-11.1	9.805	0.027	9.082	0.025	+7.7
Natural Gas	0.092	0.105	-11.8	0.826	0.002	0.883	0.002	-6.7
Coal ^a	(0.169)	(0.162)	(+4.3)	(2.123)	(0.006)	(2.013)	(0.006)	(+5.2)
Other ^a	0.034	0.030	+15.7	0.385	0.001	0.353	0.001	+8.8

Includes supplemental gaseous fuels Other is hydroelectric and nuclear power; electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems; and net imports of electricity and coal coke.

Includes crude oil, lease condensate, refined petroleum products, unfinished oils, natural gasoline, plant condensate, and imports of crude oil for the Strategic Petroleum Reserve.
 Parentheses indicate exports are greater than imports.

Other is net imports of electricity and coal coke.

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

1984 Yearend Summary

U.S. energy production reached a record level in 1984, up 6.8 percent¹ from the level the year before. The dramatic increase in production to 65.5 quadrillion British thermal units (Btu) followed 3 consecutive years of declines averaging 1.8 percent per year (Figure 1). U.S. net imports also were up 6.8 percent from the 1983 level, although the 8.9 quadrillion Btu imported were 50.8 percent below the peak of 18.0 quadrillion Btu in 1977. U.S. energy consumption rose for the first time since 1979, to 73.7 Btu, up 4.3 percent in 1984 compared with energy consumption in 1983.

Production

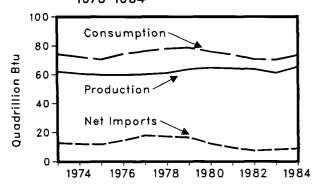
In an environment of economic recovery, U.S. production of all major energy sources except hydroelectricity increased in 1984 compared with 1983. Coal production was up the most (13.9 percent), natural gas production increased significantly (7.1 percent), and petroleum production was up 1.6 percent. Together, these fossil fuels accounted for 58.4 quadrillion Btu, 4.0 quadrillion Btu more in 1984 than in 1983. Nuclear-based electricity generation rose for the fourth year in a row, increasing 10.4 percent from the 1983 total to reach a record level of 3.5 quadrillion Btu. Coal-fired electricity generation also reached a record level. The only energy source to decrease, hydroelectricity, fell 3.6 percent to 3.4 quadrillion Btu in 1984.

Consumption

In response to an expanding economy and to stable prices for crude oil and natural gas, consumption of

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

Figure 1. U.S. Energy Production, Consumption, and Net Imports, 1973-1984



Note: 1984 data are preliminary.

all sources of energy except hydroelectricity rose in 1984. Coal, the least expensive fossil fuel on a Btu-equivalent basis, showed the largest increase—up 7.9 percent to 17.2 quadrillion Btu. Natural gas consumption rose for the first time since 1979, increasing 3.6 percent to 18.0 quadrillion Btu, and petroleum consumption rose for the first time since 1978, increasing 2.9 percent to 31.0 quadrillion Btu.

A 4.2-percent increase in energy use at electric utilities, which consumed 26.1 quadrillion Btu in 1984, reflected strong recovery in that sector. Similarly, a sizable increase in energy consumption accompanied growth in output by the industrial sector, where a 7.3-percent increase in energy consumption resulted in total consumption of 27.9 quadrillion Btu for the sector in 1984. In the transportation sector, consumption rose 3.5 percent to 19.9 quadrillion Btu as prices of some petroleum products, notably motor gasoline, declined. Consumption in the residential and commercial sector was up 1.8 percent to 26.0 quadrillion Btu in 1984.

Imports

Petroleum continued to dominate U.S. energy trade, with net imports averaging 4.7 million barrels per day in 1984. Net imports of crude oil rose for the first time since the crude oil price shock of 1979, averaging 3.2 million barrels per day, up 1.8 percent from the 1983 level. Net imports of refined petroleum products rose for the second year in a row, increasing 25.4 percent in 1984 compared with 1983. The increase in product imports occurred in an environment of stable petroleum prices and despite a significant level of excess capacity at domestic refineries.

Total imports from members of the Organization of Petroleum Exporting Countries (OPEC) averaged 2.0 million barrels per day in 1984. Although that figure represents a small increase in imports from OPEC in 1984 compared with 1983, both in absolute terms and as a share of U.S. imports from all sources, OPEC petroleum shipments to the United States were far below the peak level of 6.2 million barrels per day in 1977. OPEC's share of U.S. petroleum imports in 1984 was 37.6 percent, compared with 70.3 percent in the peak year.

In contrast to petroleum, net imports of natural gas declined 7.1 percent to 806 billion cubic feet in 1984, while coal net exports were up by 4.6 percent to 80.2 million short tons. Despite these changes in natural gas and coal trade, U.S. net imports of energy were up 6.8 percent (on a Btu basis) in 1984 compared with 1983.

Production of Energy by Source—Quarterly Summary

		Coal	Crude Oil ¹	NGPL ²	Natural Gas (Dry)	Hydro- electric Power ³	Nuclear Electric Power	Other•	Total
					Quadrillio	on (1015) Btu			
1973	Total	R14.000	19.493	2.569	22.187	2.861	0.910	0.046	R62.067
1974	Total	R14.080	18.575	2.471	21.210	3.177	1.272	0.056	R60.841
1975	Total	R14.995	17.729	2.374	19.640	3.155	1.900	0.072	R59.865
1976	Total	R15.659	17.262	2.327	19.480	2.976	2.111	0.081	R59.896
1977	1st Quarter	R3.662	4.188	0.571	5.046	0.589	0.672	0.021	R14.749
	2nd Quarter	R4.241	4.279	0.586	4.869	0.577	0.667	0.020	R15.240
	3rd Quarter	R4.029	4.426	0.579	4.804	0.528	0.691	0.020	R15.078
	4th Quarter	R3.826	4.560	0.592	4.847	0.639	0.671	0.021	R15.155
	Total	R15.758	17.454	2.327	19.565	2.333	2.702	0.082	R60.222
1978	1st Quarter	R1.956	4.431	0.555	5.014	0.753	0.767	0.019	R13.495
	2nd Quarter	R4.418	4.658	0.563	4.834	0.829	0.658	0.013	R15.973
	3rd Quarter	R4.002	4.680	0.561	4.807	0.710	0.796	0.018	R15.575
	4th Quarter	R4.537	4.664	0.567	4.830	0.644	0.802	0.018	R16.062
	Total	R14.912	18.434	2.245	19.485	2.937	3.024	0.068	R61.106
1979	1st Quarter	R4.030	4.455	0.550	5.084	0.756	0.849	0.020	R15.744
	2nd Quarter	R4.586	4.502	0.570	4.953	0.831	0.539	0.021	R16.001
	3rd Quarter	R4.264	4.524	0.571	4.889	0.660	0.727	0.023	R15.657
	4th Quarter	R4.669	4.623	0.595	5.151	0.684	0.661	0.025	R16.409
	Total	R17.549	18.104	2.286	20.076	2.931	2.776	0.089	R63.810
1980	1st Quarter	R4.620	4.588	0.578	5.287	0.746	0.644	0.024	R16.487
	2nd Quarter	R4.753	4.552	0.571	4.885	0.864	0.605	0.028	R16.259
	3rd Quarter	R4.450	4.549	0.547	4.706	0.666	0.752	0.031	R15.702
	4th Quarter	R4.776	4.559	0.558	5.029	0.624	0.738	0.032	R16.317
	Total	R18.600	18.249	2.254	19.907	2.900	2.739	0.114	R64.764
1981	1st Quarter	R4.799	4.481	0.581	4.995	0.678	0.743	0.033	R16.310
	2nd Quarter	R3.033	4.519	0.570	4.942	0.754	0.679	0.031	R14.527
	3rd Quarter	R5.234	4.569	0.575	4.881	0.683	0.821	0.033	R16.796
	4th Quarter	R5.314	4.577	0.581	4.880	0.644	0.765	0.030	R16.791
	Total	R18.379	18.146	2.307	19.699	2.758	3.008	0.127	R64.424
1982	1st Quarter	R4.943	4.502	0.547	4.916	R0.879	R0.760	0.023	R16.570
	2nd Quarter	R4.814	4.561	0.537	4.572	R0.884	R0.747	0.025	R16.138
	3rd Quarter	R4.479	4.623	0.541	4.385	R0.749	R0.840	0.030	R15.647
	4th Quarter	R4.405	4.624	0.566	4.382	R0.745	R0.785	0.030	R15.537
	Total	R18.641	18.309	2.191	18.255	R3.256	R3.131	0.108	R63.892
1983	1st Quarter	R4.241	4.550	R0.541	R4.215	R0.922	R0.776	0.028	R15.274
	2nd Quarter	R4.122	4.587	R0.526	R3.851	R0.970	R0.747	0.026	R14.828
	3rd Quarter	R4.386	4.642	R0.553	R4.040	R0.798	R0.838	R0.041	R15.298
	4th Quarter	R4.504	4.613	R0.564	R4.424	R0.812	R0.842	0.039	R15.796
	Total	R17.252	18.392	R2.184	R16.530	R3.502	R3.203	R0.133	R61.196
1984	1st Quarter	R4.955	4.592	R0.577	R4.633	R0.928	R0.917	0.039	R16.641
	2nd Quarter	R5.039	4.607	R0.581	R4.350	R0.955	R0.817	R0.041	R16.389
	3rd Quarter	R5.374	4.680	R0.604	R4.294	R0.776	R0.938	0.044	R16.709
	4th Quarter	4.328	4.712	0.604	4.472	0.727	0.875	0.050	15.769
	Total	19.696	18.590	2.367	17.750	3.386	3.546	0.174	65.508

¹Includes lease condensate.
²Natural gas plant liquids.
³Includes industrial and utility production of hydroelectric power.
⁴Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.
R = Revised data.
Netos: • Geographic coverage is the 50 States and the District of Columbia

Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric

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

Consumption of Energy by Source—Quarterly Summary

		Coal	Natural Gas¹	Petroleum	Hydro- electric Power ²	Nuclear Electric Power	Net Imports of Coal Coke ³	Other •	Total
					Quadrillio	on (1015) Btu			
1973	Total	R12.978	22.512	34.840	3.010	0.910	(0.008)	0.046	R74.288
1974	Total	R12.668	21.732	33.455	3.309	1.272	R0.056	0.056	R72.548
1975	Total	R12.668	19.948	32.731	3.219	1.900	0.014	0.072	R70.551
1976	Total	R13.589	20.345	35.175	3.066	2.111	0.000	0.081	R74.366
1977	1st Quarter 2nd Quarter 3rd Quarter 4th Quarter Total	R3.518 R3.307 R3.624 R3.475 R13.925	6.063 4.238 4.202 5.428 19.931	9.772 8.800 9.019 9.531 37.122	0.634 0.623 0.574 0.684 2.515	0.672 0.667 0.691 0.671 2.702	R(0.003) (0.002) R0.009 R0.010 0.015	0.021 0.020 0.020 0.021 0.082	R20.676 R17.654 R18.141 R19.820 R76.292
1978	1st Quarter	R3.151	6.561	9.971	0.804	0.767	R0.007	0.019	R21.280
	2nd Quarter	R3.270	4.247	9.081	0.880	0.658	R0.044	0.013	R18.194
	3rd Quarter	R3.727	3.926	9.178	0.762	0.796	R0.038	0.018	R18.447
	4th Quarter	R3.619	5.265	9.735	0.696	0.802	R0.035	0.018	R20.170
	Total	R13.767	20.000	37.965	3.141	3.024	R0.125	0.068	R78.091
1979	1st Quarter	R3.769	6.648	10.072	0.808	0.849	0.009	0.020	R22.175
	2nd Quarter	R3.573	4.423	8.837	0.883	0.539	R0.025	0.021	R18.301
	3rd Quarter	R3.876	4.085	8.879	0.713	0.727	R0.024	0.023	R18.327
	4th Quarter	R3.823	5.510	9.337	0.737	0.661	0.005	0.025	R20.098
	Total	R15.042	20.666	37.123	3.141	2.776	R0.063	0.089	R78.900
1980	1st Quarter 2nd Quarter 3rd Quarter 4th Quarter Total	R3.996 R3.547 R4.021 R3.862 R15.426	6.606 4.255 3.977 5.553 20.391	9.143 8.177 8.123 8.759 34.202	0.800 0.919 0.721 0.678 3.118	0.644 0.605 0.752 0.738 2.739	R0.000 R(0.014) R(0.011) R(0.009) R(0.035)	0.024 0.028 0.031 0.032 0.114	R21.213 R17.517 R17.612 R19.613 R75.955
1981	1st Quarter	R4.069	6.237	8.391	0.763	0.743	(0.004)	0.033	R20.232
	2nd Quarter	R3.677	4.337	7.732	0.841	0.679	R(0.005)	0.031	R17.291
	3rd Quarter	R4.191	3.997	7.785	0.770	0.821	(0.001)	0.033	R17.596
	4th Quarter	R3.971	5.355	8.023	0.731	0.765	(0.006)	0.030	R18.870
	Total	R15.908	19.926	31.931	3.105	3.008	R(0.016)	0.127	R73.989
1982	1st Quarter	R4.047	6.396	7.745	R0.948	R0.760	(0.004)	0.023	R19.915
	2nd Quarter	R3.556	3.841	7.535	R0.937	R0.747	(0.007)	0.025	R16.634
	3rd Quarter	R3.991	3.532	7.419	R0.834	R0.840	(0.008)	0.030	R16.638
	4th Quarter	R3.730	4.738	7.532	R0.842	R0.785	(0.004)	0.030	R17.654
	Total	R15.324	18.507	30.232	R3.561	R3.131	R(0.022)	0.108	R70.842
1983	1st Quarter	R3.737	R5.369	R7.311	R1.008	R0.776	(0.003)	0.028	R18.226
	2nd Quarter	R3.570	R3.572	R7.293	R1.048	R0.747	(0.005)	0.026	R16.251
	3rd Quarter	R4.441	R3.317	R7.626	R0.901	R0.838	(0.003)	R0.041	R17.160
	4th Quarter	R4.153	R5.093	R7.824	R0.914	R0.842	R(0.004)	0.039	R18.860
	Total	R15.900	R17.352	R30.054	R3.871	R3.203	(0.016)	R0.133	R70.497
1984	1st Quarter	R4.346	R5.871	R7.881	R1.021	R0.917	0.002	0.039	R20.075
	2nd Quarter	R4.029	R3.872	R7.646	R1.040	R0.817	R(0.003)	R0.041	R17.442
	3rd Quarter	R4.519	R3.491	R7.774	R0.887	R0.938	(0.003)	0.044	R17.648
	4th Quarter	4.310	4.797	7.704	0.836	0.875	(0.007)	0.050	18.566
	Total	17.203	18.031	31.004	3.783	3.546	(0.011)	0.174	73.730

Includes supplemental gaseous fuels.
Includes industrial and utility production and net imports of electricity.
Parentheses indicate exports are greater than imports.
Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

R = Revised data.

Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric

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

Net Imports¹ of Energy by Source—Quarterly Summary

Refined								
			Crude	Petroleum	Natural		Coal	
		Coal	Oil ²	Products ³	Gas	Electricity	Coke	Total
				Qua	drillion (1015)	Btu		
1973	Total	(1.422)	6.883	6.097	0.981	0.148	(0.008)	R12.680
1974	Total	(1.568)	7.389	5.273	0.907	0.133	R0.056	R12.190
1975	Total	(1.738)	8.708	3.800	0.904	0.064	0.014	R11.752
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	R(0.003)	4.924
1311	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	R0.009	R4.444
	4th Quarter	(0.339)	3.377	0.965	0.253	0.046	R0.010	4.311
	Total	(1.401)	13.921	4.321	0.981	0.182	0.015	R18.018
1978	1st Quarter	(0.036)	3.138	1.112	0.241	0.050	R0.007	4.512
	2nd Quarter	(0.306)	3.063	0.891	0.214	0.051	R0.044	R3.959
	3rd Quarter	(0.264)	3.422	0.942	0.209	0.052	R0.038	R4.399
	4th Quarter	(0.398)	3.502	0.987	0.276	0.052	R0.035	R4.453
	Total	(1.004)	13.125	3.932	0.941	0.204	R0.125	R17.323
1979	1st Quarter	(0.277)	3.311	1.051	0.307	0.052	0.009	R4.453
	2nd Quarter	(0.452)	3.252	0.787	0.307	0.052	R0.025	R3.972
	3rd Quarter	(0.455)	3.417	0.826	0.295	0.053	R0.024	R4.159
	4th Quarter	(0.517)	3.348	0.939	0.333	0.053	0.005	R4.160
	Total	(1.702)	13.328	3.603	1.243	0.211	R0.063	R16.745
1980	1st Quarter	(0.363)	3.021	0.902	0.326	0.054	R0.000	3.940
	2nd Quarter	(0.652)	2.696	0.625	0.203	0.054	R(0.014)	R2.913
	3rd Quarter	(0.678)	2.446	0.626	0.174	0.055	R(0.011)	2.611
	4th Quarter	(0.698)	2.423	0.760	0.254	0.055	R(0.009)	2.783
	Total	(2.391)	10.586	2.912	0.957	0.217	R(0.035)	R12.247
1981	1st Quarter	(0.578)	2.368	0.729	0.244	0.086	(0.004)	2.846
	2nd Quarter	(0.529)	2.127	0.552	0.185	0.087	R(0.005)	R2.416
	3rd Quarter	(0.883)	2.239	0.628	0.184	0.088	(0.001)	2.254 2.128
	4th Quarter	(0.929)	2.119	0.613 2.522	0.242 0.855	0.088 0.347	(0.006) B(0.016)	R9.644
	Total	(2.918)	8.854				R(0.016)	
1982	1st Quarter	(0.668)	1.524	0.569	0.257	0.070	(0.004)	1.748
	2nd Quarter	(0.826)	1.672	0.466	0.190	0.053 0.086	(0.007)	R1.549 2.111
	3rd Quarter	(0.655) (0.619)	1.970 1.751	0.536 0.557	0.181 0.268	R0.097	(0.008) (0.004)	2.111
	4th Quarter Total	(2.768)	6.917	2.128	0.896	R0.306	R(0.022)	R7.457
4000		(0.392)	1.224	R0.373	R0.285	0.086	(0.003)	R1.572
1983	1st Quarter 2nd Quarter	(0.525)	1.686	R0.539	R0.186	0.079	(0.005)	R1.959
	3rd Quarter	(0.572)	2.110	R0.743	R0.170	R0.103	(0.003)	R2.551
	4th Quarter	(0.524)	1.711	R0.696	R0.243	R0.101	R(0.004)	R2.223
	Total	(2.013)	R6.731	R2.351	R0.883	R0.369	(0.016)	R8.306
1984	1st Quarter	R(0.393)	1.568	R0.909	R0.226	0.092	0.002	R2.404
1504	2nd Quarter	R(0.621)	1.794	R0.695	R0.198	R0.084	R(0.003)	R2.147
	3rd Quarter	R(0.658)	R1.737	R0.674	R0.163	R0.111	(0.003)	R2.024
	4th Quarter	(0.451)	1.768	0.659	0.239	0.109	(0.007)	2.317
	Total	(2.123)	6.867	2.937	0.826	0.397	(0.011)	8.893
		- •						

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

²Includes crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.

³Includes refined petroleum products, unfinished oils, natural gasoline, and plant condensate.

R = Revised data.

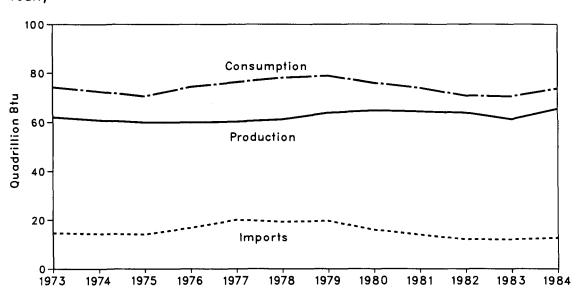
Notes: • Geographic coverage is the 50 States and the District of Columbia.

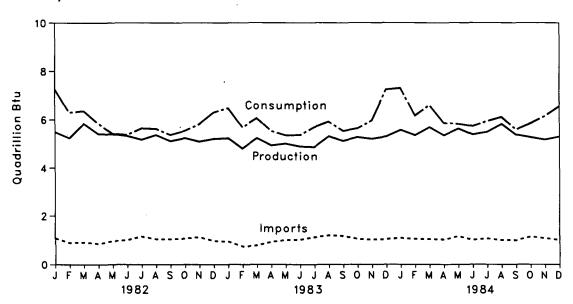
• Totals may not equal sum of components due to independent rounding.

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

Overview

Yearly





Overview¹

		Production ²	Consumption ²	Imports ²	Exports	Net Imports
			Q	uadrillion (1018) B	tu	
1973	Total	R62.067	R74.288	R14.730	R2.051	R12.680
1974	Total	R60.841	R72.548	R14.412	R2.223	R12.190
1975	Total	R59.865	R70.551	R14.111	R2.359	R11.752
1976	Total	R59.896	R74.366	R16.837	R2.189	14.648
1977	Total	R60.222	R76.292	R20.090	R2.072	R18.018
1978	Total	R61.106	R78.091	R19.254	R1.931	R17.323
1979	Total	R63.810	R78.900	R19.616	R2.871	R16.745
1979	Total	R64.764	R75.955	R15.971	R3.724	R12.247
1980	Total	R64.424	R73.989	13.974	R4.329	R9.644
1981	ıotai	N04.424	m/3.303	13.974	N4.323	N3.044
1982	January	R5.492	R7.265	1.086	0.318	0.768
	February	R5.239	R6.295	0.890	0.376	0.514
	March	R5.838	R6.355	R0.908	0.442	0.466
	April	R5.411	R5.849	0.855	0.428	0.427
	May	R5.398	R5.411	0.958	0.421	0.537
	June	R5.329	R5.374	1.004	0.419	0.585
	July	R5.168	R5.644	1.150	0.388	0.762
	August	R5.366	R5.622 R5.372	1.041 1.042	0.358 0.376	0.683 0.666
	September October	R5.113 R5.239	R5.545	1.042 R1.066	0.376	0.629
	November	R5.093	R5.817	1.125	0.351	0.774
	December	R5.205	R6.292	0.969	0.322	0.647
	Total	R63.892	R70.842	R12.093	R4.636	R7.457
	IOlai					
1983	January	R5.237	R6.483	R0.942	0.301	R0.641
	February	R4.803	R5.685	R0.732	0.264	R0.468
	March	R5.233	R6.058	R0.783	0.319	R0.464
	April	R4.933	R5.533 5.355	R0.931 R1.005	0.314 0.348	R0.617
	May	R5.006 R4.889	5.355 R5.364	R1.005	0.346	R0.657 R0.684
	June July	R4.866	5.700	R1.124	R0.273	R0.851
	August	R5.312	5.922	R1.124	0.348	R0.852
	September	R5.120	5.538	R1.172	0.323	R0.849
	October	R5.280	5.648	R1.051	0.325	R0.726
	November	R5.208	R5.966	R1.019	0.280	R0.739
	December	R5.308	R7.246	R1.047	0.290	R0.758
	Total	R61.196	R70.497	R12.024	R3.719	R8.306
1984	January	R5.581	R7.304	1.088	R0.246	R0.842
	February	R5.361	R6.168	1.052	R0.219	R0.833
	March	R5.698	R6.604	1.045	R0.315	R0.730
	April	R5.358	R5.869	1.031	R0.328	R0.704
	May	R5.639	5.830	1.163	R0.367	R0.796
	June	R5.393	R5.742	1.016	R0.368	R0.647
	July	R5.499	R5.941	R1.068	R0.328	R0.740
	August	R5.828	R6.111	1.002	R0.361	R0.640
	September	R5.381	R5.596	1.001	R0.357	R0.644
	October	R5.281	R5.857	1.147	R0.296	R0.851
	November	R5.181	R6.152	1.082	R0.271	R0.811
	December	5.307	6.557	1.017	0.362	0.656
	Total	65.508	73.730	12.711	3.818	8.893

¹For definitions, see Notes on the last page of this section.
²The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation, and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces in Europe; and adjustments to account for discrepancies between reporting systems. R=Revised data.

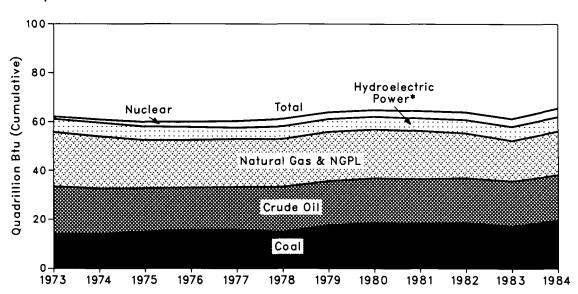
Notes: • Geographic coverage is the 50 States and the District of Columbia.

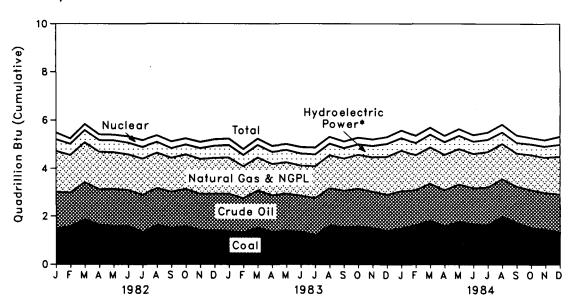
Totals may not equal sum of components due to independent rounding.
 Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric

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

Production of Energy by Source

Yearly





^{*}Includes other.

Production of Energy by Source

		Coal	Crude Oil ¹	NGPL ²	Natural Gas (Dry)	Hydro- electric Power ³	Nuclear Electric Power	Other	Total	Year to Date
					Qu	adrillion (10	15) Btu			
1973	Total	R14.000	19.493	2.569	22.187	2.861	0.910	0.046	R62.067	
1974	Total	R14.080	18.575	2.471	21.210	3.177	1.272	0.056	R60.841	
1975	Total	R14.995	17.729	2.374	19.640	3.155	1.900	0.072	R59.865	
1976	Total	R15.659	17.262	2.327	19.480	2.976	2.111	0.081	R59.896	
1977	Total	R15.758	17.454	2.327	19.565	2.333	2.702	0.082	R60.222	
1978	Total	R14.912	18.434	2.245	19.485	2.937	3.024	0.068	R61.106	
1979	Total	R17.549	18.104	2.286	20.076	2.931	2.776	0.089	R63.810	
		R18.600	18.249	2.254	19.907	2.900	2.739	0.114	R64.764	
1980 1981	Total Total	R18.379	18.146	2.307	19.699	2.758	3.008	0.117	R64.424	
		R1.493	1.530	0.189	1.703	R0.283	R0.284	0.009	R5.492	R5.492
1982	January	R1.583	1.413	0.169	1.562	R0.281	R0.224	0.003	R5.239	R10.732
	February March	R1.867	1.558	0.189	1.651	R0.314	R0.252	0.007	R5.838	R16.570
	April	R1.637	1.495	0.179	1.558	R0.294	R0.241	0.007	R5.411	R21.981
	May	R1.582	1.561	0.182	1.530	R0.295	R0.240	0.008	R5.398	R27.379
	June	R1.595	1.504	0.175	1.483	R0.295	R0.266	0.010	R5.329	R32.708
	July	R1.346	1.557	0.182	1.504	R0.287	R0.282	0.010	R5.168	R37.876
	August	R1.621	1.552	0.183	1.471	R0.252	R0.277	0.010	R5.366	R43.242
	September	R1.511	1.514	0.176	1.410	R0.210	R0.281	0.010	R5.113	R48.355
	October	R1.576	1.565	0.184	1.439	R0.208		0.011	R5.239	R53.594
	November	R1.425	1.513	0.187	1.455	R0.245	R0.257	0.011	R5.093	R58.687
	December	R1.404	1.546	0.195	1.489	R0.292	R0.270	0.009	R5.205	R63.892
	Total	R18.641	18.309	2.191	18.255	R3.256	R3.131	0.108	R63.892	
1983	January	R1.384	1.564	R0.188	R1.509	R0.308	R0.273	0.011	R5.237	R5.237
,,,,,	February	R1.338	1.422	R0.169	R1.329	0.295	R0.242	0.008	R4.803	R10.040
	March	R1.520	1.564	R0.183	R1.376	R0.319	R0.261	R0.009	R5.233	R15.274
	April	R1.364	1.527	R0.173	R1.300	R0.316	R0.244	0.009	R4.933	R20.207
	May	R1.394	1.552	R0.178	R1.305	R0.329	R0.240	0.007	R5.006	R25.213
	June	R1.363	1.508	R0.175	R1.245	R0.324	R0.263	R0.009	R4.889	R30.102
	July	R1.218	1.553	R0.183	R1.325	0.297	R0.279	0.012	R4.866	R34.968
	August	R1.617	1.561	R0.186	R1.375	R0.272	R0.286	R0.015	R5.312	R40.280
	September	R1.551	1.528	R0.184	R1.340	R0.229	R0.273	0.014	R5.120	R45.400
	October	R1.583	1.577	R0.191	R1.415	0.219	R0.281	0.015	R5.280	R50.680
	November	R1.515	1.526	R0.189	R1.432	R0.260	R0.273	0.013	R5.208	R55.888
	December	R1.405	1.510	R0.184	R1.577	R0.333	R0.287	0.011	R5.308	R61.196
	Total	R17.252	18.392	R2.184	R16.530	R3.502	R3.203	R0.133	R61.196	
1984	January	R1.508	1.557	R0.195	R1.679	0.314	R0.318	0.011	R5.581	R5.581
	February	R1.636	1.468	R0.187	R1.455	R0.294	R0.309	0.013	R5.361	R10.943
	March	R1.811	1.567	R0.195	R1.499	0.321	R0.290	0.015	R5.698	R16.641
	April	R1.592	1.512	R0.192	R1.469	R0.316	R0.263	0.014	R5.358	R21.998
	May	R1.775	1.574	R0.198	R1.464	R0.336	R0.280	0.014	R5.639	R27.638
	June	R1.672	1.521	R0.192	R1.417	R0.303	R0.274	0.013	R5.393	R33.030
	July	R1.644	1.577	R0.202	R1.470	R0.290	. R0.303	0.013	R5.499	R38.530
	August	R1.995	1.579	R0.204	R1.450	R0.265	R0.320	0.016	R5.828	R44.358
	September	R1.735	1.524	R0.198	R1.374	0.221	R0.315	0.015	R5.381	R49.739
	October	R1.527	1.591	R0.202	R1.455	R0.220	R0.270	0.016	R5.281	R55.021
	November	R1.454	1.539	R0.200	R1.469	0.235	R0.268	0.016	R5.181	R60.201
	December	1.348	1.582	0.202	1.549	0.272	0.337	0.018	5.307	65.508
	Total	19.696	18.590	2.367	17.750	3.386	3.546	0.174	65.508	

¹Includes lease condensate.

Includes lease condensate.

Natural gas plant liquids.

Includes industrial and utility production of hydroelectric power.

Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

R = Revised data.

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

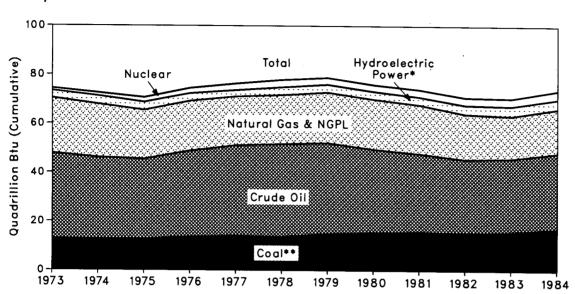
Totals may not equal sum of components due to independent rounding.

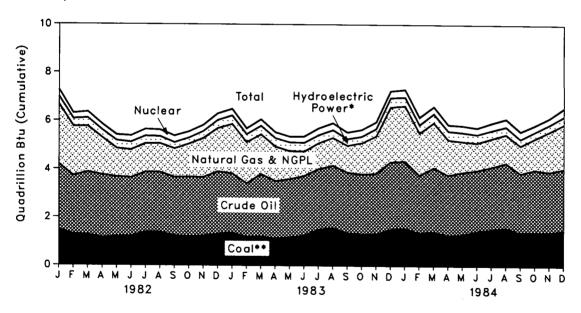
Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric utilities

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

Consumption of Energy by Source

Yearly





^{*}Includes other.
**Includes net imports of coal coke.

Consumption of Energy by Source

					Hydro-	Nuclear	Net Imports			Year
		Coal	Natural Gas¹	Petro- leum	electric Power ²	Electric Power	of Coal Coke ³	Other •	Total	to Date
					Qu	adrillion (10	¹⁵) Btu			
1973	Total	R12.978	22.512	34.840	3.010	0.910	(0.008)	0.046	R74.288	
1974	Total	R12.668	21.732	33.455	3.309	1.272	R0.056	0.056	R72.548	
1975	Total	R12.668	19.948	32.731	3.219	1.900	0.014	0.072	R70.551	
1976	Total	R13.589	20.345	35.175	3.066	2.111	0.000	0.081	R74.366	
1977	Total	R13.925	19.931	37.122	2.515	2.702	0.015	0.082	R76.292	
1978	Totai	R13.767	20.000	37.965	3.141	3.024	R0.125	0.068	R78.091	
1979	Total	R15.042	20.666	37.123	3.141	2.776	R0.063	0.089	R78.900	
1980	Total	R15.426	20.391	34.202	3.118	2.739	R(0.035)	0.114	R75.955	
1981	Total	R15.908	19.926	31.931	3.105	3.008	R(0.016)	0.127	R73.989	
	IOtal									
1982	January	R1.489	2.467	2.707	R0.310	R0.284	0.000	0.009	R7.265	R7.265
	February	R1.295	2.040	2.426	R0.304	R0.224	(0.001)	800.0	R6.295	R13.560
	March	R1.262	1.889	2.612	R0.335	R0.252	(0.002)	0.007	R6.355	R19.915
	April	R1.155	1.527	2.607	R0.313	R0.241	(0.001)	0.007 0.008	R5.849 R5.411	R25.764 R31.176
	May	R1.189	1.168	2.492 2.436	R0.317 R0.306	R0.240 R0.266	R(0.002) (0.004)	0.008	R5.374	R36.549
	June	R1.213	1.146 1.177	2.488	R0.307	R0.282	(0.004)	0.010	R5.644	R42.194
	July	R1.384	1.177	2.491	R0.285	R0.277	(0.003)	0.010	R5.622	R47.815
	August	R1.377 R1.230	1.172	2.440	R0.243	R0.281	(0.003)	0.010	R5.372	R53.188
	September October	R1.193	1.348	2.494	R0.243	R0.257	(0.001)	0.010	R5.545	R58.732
	November	R1.232	1.603	2.438	R0.278	R0.257	R(0.001)	0.011	R5.817	R64.550
	December	R1.305	1.788	2.600	R0.321	R0.270	(0.001)	0.009	R6.292	R70.842
	Total	R15.324	18.507	30.232	R3.561	R3.131	R(0.022)	0.108	R70.842	0.0 ,=
			•							50.400
1983	January	R1.360	R2.036	R2.467	R0.337	R0.273	(0.001)	0.011	R6.483	R6.483
	February	R1.180	R1.693	R2.239	R0.323	R0.242	(0.001)	0.008	R5.685	R12.168
	March	R1.196	R1.640	R2.604	R0.348	R0.261	(0.001)	R0.009	R6.058	R18.226
	April	R1.140	R1.416	R2.383	R0.344	R0.244 R0.240	(0.002)	0.009	R5.533 5.355	R23.759 R29.113
	May	R1.173	R1.153	R2.431	R0.352 R0.351	R0.240	(0.002) (0.001)	0.007 R0.009	5.355 R5.364	'R34.478
	June	R1.257 R1.500	R1.004 R1.066	R2.480 R2.517	R0.328	R0.279	(0.001)	0.012	5.700	R40.178
	July	R1.574	R1.146	R2.594	0.307	R0.286	(0.001)	R0.015	5.922	R46.100
	August September	R1.367	R1.140	R2.515	R0.266	R0.273	(0.001)	0.014	5.538	R51.638
	October	R1.305	R1.285	R2.507	0.256	R0.281	(0.001)	0.015	5.648	R57.285
	November	R1.326	R1.550	R2.514	R0.292	R0.273	(0.001)	0.013	R5.966	R63.252
	December	R1.523	R2.259	R2.803	R0.366	R0.287	(0.003)	0.011	R7.246	R70.497
	Total	R15.900	R17.352	R30.054	R3.871	R3.203	(0.016)	R0.133	R70.497	
1984	January	R1.563	R2.270	R2.796	R0.344	R0.318	0.001	0.011	R7.304	R7.304
	February	R1.369	R1.742	R2.407	R0.325	R0.309	0.002	0.013	R6.168	R13.471
	March	R1.413	R1.858	R2.678	R0.351	R0.290	(0.001)	0.015	R6.604	R20.075
	April	R1.278	R1.463	R2.505	R0.346	R0.263	0.000	0.014	R5.869	R25.944
	May	R1.305	R1.269	R2.602	0.361	R0.280	(0.001)	0.014	5.830	R31.774
	June	R1.446	R1.140	R2.538	R0.333	R0.274	R(0.002)	0.013	R5.742	R37.516
	July	R1.529	R1.173	R2.599	R0.324	R0.303	(0.001)	0.013	R5.941	R43.457
	August	R1.597	R1.182	R2.697	R0.302	R0.320	(0.002)	0.016	R6.111	R49.569
	September	R1.392	R1.136	R2.478	0.261	R0.315	0.000	0.015	R5.596	R55.164
	October	R1.404	R1.297	R2.613	0.260	R0.270	R(0.003)	0.016	R5.857	R61.022
	November	R1.409	R1.668	R2.524	R0.269	R0.268	(0.003)	0.016	R6.152	R67.174
	December	1.497	1.832	2.567	0.307	0.337	(0.001)	0.018	6.557	73.730
	Total	17.203	18.031	31.004	3.783	3.546	(0.011)	0.174	73.730	

¹Includes supplemental gaseous fuels.
²Includes industrial and utility production and net imports of electricity.
²Parentheses indicate exports are greater than imports.
⁴Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. R=Revised data.

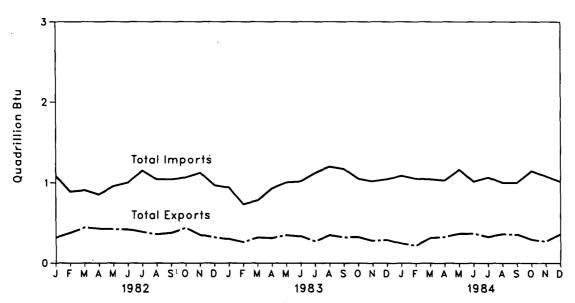
Notes: • Geographic coverage is the 50 States and the District of Columbia.

<sup>Totals may not equal sum of components due to independent rounding.
Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric</sup>

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

Energy Imports and Exports

Yearly 30-**Quadrillion Btu** Total Imports **Total Exports**



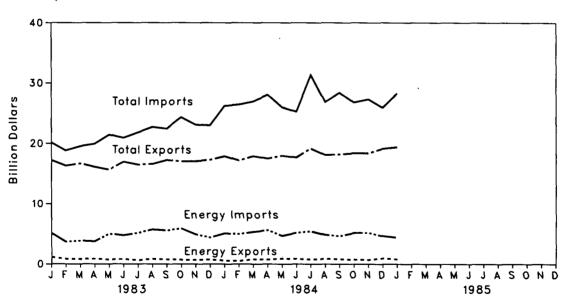
Net Imports¹ of Energy by Source

		Coal	Crude Oil ²	Refined Petro- leum Products ³	Natural Gas	Electri- city	Coal Coke	Total	Year to Date
					Quadrill	ion (1015) Bto	1		
1973	Total	(1.422)	6.883	6.097	0.981	0.148	(0.008)	R12.680	
1973	Total	(1.568)	7.389	5.273	0.907	0.133	R0.056	R12.190	
1975	Total	(1.738)	8.708	3.800	0.904	0.064	0.014	R11.752	
1976	Total	(1.567)	11.221	3.982	0.922	0.089	0.000	14.648	
1977	Total	(1.401)	13.921	4.321	0.981	0.182	0.015	R18.018	
1978	Total	(1.004)	13.125	3.932	0.941	0.204	R0.125	R17.323	
1979	Total	(1.702)	13.328	3.603	1.243	0.211	R0.063	R16.745	
1980	Total	(2.391)	10.586	2.912	0.957	0.217	R(0.035)	R12.247	
1981	Total	(2.918)	8.854	2.522	0.855	0.347	R(0.016)	R9.644	
	iotai	•							0.700
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 0.181	0.081 0.078	0.023 0.020	(0.001) (0.002)	0.514 0.466	1.282 1.748
	March	(0.273) (0.284)	0.461 0.468	0.153	0.078	0.020	(0.002)	0.400	2.175
	April May	(0.262)	0.551	0.166	0.063	0.022	R(0.002)	0.537	2.712
	June	(0.280)	0.654	0.147	0.056	R0.011	(0.004)	0.585	R3.296
	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	R(0.001)	0.774	6.810
	December	(0.157)	0.507	0.161	0.107	R0.029	(0.001)	0.647	R7.457
	Total	(2.768)	6.917	2.128	0.896	R0.306	R(0.022)	R7.457	
1983	January	(0.116)	0.514	0.105	R0.110	R0.028	(0.001)	R0.641	R0.641
	February	(0.113)	0.327	R0.134	0.092	0.029	(0.001)	R0.468	R1.108
	March	(0.162)	0.382	R0.134	R0.083	0.028	(0.001)	R0.464	R1.572
	April	(0.157)	0.530	0.148	R0.071	0.028	(0.002)	R0.617	R2.190
	May	(0.180)	0.556 0.600	R0.202 R0.188	0.057 0.057	0.023 0.028	(0.002) (0.001)	R0.657 R0.684	R2.847 R3.531
	June July	(0.188) (0.159)	0.673	R0.252	0.057	0.028	(0.001)	R0.851	R4.382
	August	(0.139)	0.732	R0.252	0.051	0.034	(0.001)	R0.852	R5.233
	September	(0.195)	0.705	R0.239	R0.065	0.037	(0.001)	R0.849	R6.082
	October	(0.209)	0.597	R0.241	0.061	0.037	(0.001)	R0.726	R6.809
	November	(0.153)	0.551	R0.233	R0.077	0.032	(0.001)	R0.739	R7.548
	December	(0.162)	0.563	0.222	R0.105	R0.032	(0.003)	R0.758	R8.306
	Total	(2.013)	R6.731	R2.351	R0.883	R0.369	(0.016)	R8.306	
1984	January	R(0.132)	0.519	R0.330	0.093	E0.031	0.001	R0.842	R0.842
	February	R(0.109)	R0.467	R0.374	R0.068	E0.031	0.002	R0.833	R1.675
	March	R(0.152)	0.581	R0.205	R0.066	E0.031	(0.001)	R0.730	R2.404
	April	R(0.200)	0.567	R0.238	R0.069	E0.030	0.000	R0.704	R3.108
	May	R(0.216)	0.670	R0.249	R0.069	E0.025	(0.001)	R0.796	R3.904
	June	R(0.206) R(0.215)	0.557 0.639	R0.208 R0.227	0.060 0.055	E0.030 E0.034	R(0.002) (0.001)	R0.647 R0.740	R4.552 R5.292
	July August	R(0.215) R(0.215)	0.551	R0.216	0.053	E0.037	(0.001)	R0.640	R5.932
	September	R(0.228)	0.547	R0.231	0.054	E0.040	0.000	R0.644	R6.576
	October	R(0.173)	0.652	R0.270	R0.066	RE0.039	R(0.003)	R0.851	R7.426
	November	R(0.109)	0.585	R0.222	R0.081	E0.035	(0.003)	R0.811	R8.237
	December	(0.169)	0.531	0.167	0.092	E0.035	(0.001)	0.656	8.893
	Total	(2.123)	6.867	2.937	0.826	E0.397	(0.011)	8.893	

¹Net imports equals imports minus exports. Parentheses indicate exports are greater than imports.
²Includes crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.
³Includes refined petroleum products, unfinished oils, natural gasoline, and plant condensate.
E = Estimated value. 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.

Merchandise Trade Value

Yearly 400 300 Billion Dollars 200 Total Imports Total Exports 100 **Energy Imports** 1974 1975 1976 1978 1979 1980 1977



Merchandise Trade Value

		Exports				Imports		Т	Trade Balance			
		Energy	All Other	Total	Energy	All Other	Total	Energy	All Other	Total		
					,	Million dolla	ars					
1974	Total	NA	NA	98,092	NA	NA	102,559	NA	NA	-4,467		
1975	Total	4,470	103,182	107,652	28,325	70,178	98,503	-23,855	+33,004	+9,149		
1976	Total	4,226	110,997	115,223	36,384	87,093	123,477	-32,158	+23,904	-8,254		
1977	Total	4,184	117,048	121,232	47,153	103,237	150,390	-42,969	+13,811	-29,158		
1978	Total	3,882	139,799	143,681	44,763	129,994	174,757	-40,881	+9,805	-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 18,005	5,009 4,312	15,010 13,402	20,019 17,714	-3,753 -3,111	+2,196	-1,557		
	April	1,201	16,804 17,059	18,124	4,312 4,167	16,310	20,477	-3,111	+3,402	+291 -2,353		
	May	1,065 1,035	17,039	18.823	5,427	15,760	21,187	-4,392	+749 +2,028	-2,353 -2,364		
	June July	974	17,786	18,060	5,943	13,700	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	R582	R17,307	R17,889	5,089	R21,116	R26,205	R-4,507	R-3,809	R-8,316		
	February	R502	R16,706	R17,208	5,006	R21,414	R26,420	R-4,504	R-4,708	R-9,212		
	March	R790	R17,116	R17,906	5,323	R21,625	R26,948	R-4,533	R-4,510	R-9,043		
	April	R759	R16,761	R17,520	5,629	R22,445	R28,074	R-4,870	R-5,683	R-10,553		
	May	R901	R17,077	R17,978	4,696	R21,316	R26,012	R-3,795	R-4,239	R-8,034		
	June	R872	R16,833	R17,705	5,206	R20,070	R25,276	R-4,334	R-3,237	R-7,571		
	July	R765	R18,389	R19,154	5,434	R25,900	R31,334	R-4,669		R-12,180		
	August	R878	R17,245	R18,123	4,886	R21,980	R26,866	R-4,008	R-4,735	R-8,743		
	September	R820	R17,390	R18,210	4,663	R23,746	R28,409	R-3,843		R-10,200		
	October	R757 R712	R17,654 R17,683	R18,411 R18,395	5,168 5,207	R21,615	R26,783	R-4,411	R-3,961	R-8,372		
	November December	R973	R18,169	R19,142	5,207 4,672	R22,124 R21,261	R27,331 R25,933	R-4,495 R-3,699	R-4,442 R-3,092	R-8,937 R-6,791		
	Total	9,311	208,554	217,865	60,980	264,746	325,726	-51,669	-56,192	-107,861		
400-						•		•	•			
1985	January	804	18,597	19,401	4,434	23,863	28,297	-3,630	-5,266	-8,896		

R=Revised data. NA=Not available.

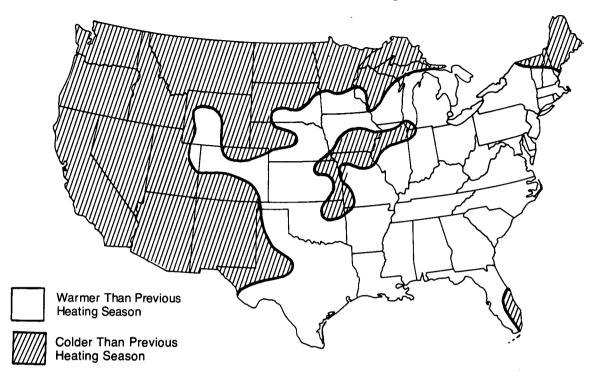
Notes: • Annual totals are unadjusted and may not equal the sum of monthly totals, which are adjusted for seasonal and working-day variation, if present and identifiable.

• 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.

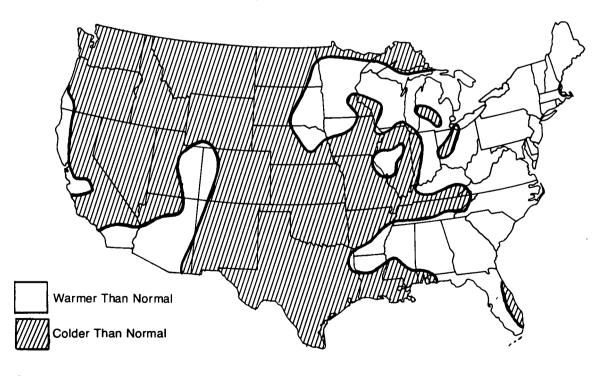
Additional Notes and Sources: • See the last page of this section.

Heating Degree-Days Accumulated from July 1, 1984, through March 2, 1985

Departure from Previous Heating Season



Departure from Normal



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

Population-Weighted Heating Degree-Days¹

	F	ebruary	1 through	February 2	8		July 1 t	Cumulativ		
Census				Percent	Change				Percent	Change
Divisions	Normal ²	1984	1985	Normal to 1985	1984 to 1985	Normal ²	1984	1985	Normal to 1985	1984 to 1985
New England CT, ME, MA, NH, RI, VT	1,074	866	1,005	-6.4	16.1	4,723	4,541	4,643	-1.7	2.2
Middle Atlantic NJ, NY, PA	999	805	951	-4.8	18.1	4,293	4,273	4,049	-5.7	-5.2
Eastern North Central IL, IN, MI, OH, WI	1,076	844	1,163	8.1	37.8	4,736	4,871	4,811	1.6	-1.2
Western North Central IA, KS, MN, MO, NE, ND, SD	1,107	852	1,188	7.3	39.4	5,061	5,185	5,240	3.5	1.1
South Atlantic DE, FL, GA, MD and DC, NC, SC, VA, WV	551	443	534	-3.1	20.5	2,364	2,402	2,252	-4.7	-6.2
Eastern South Central AL, KY, MS, TN	639	553	722	13.0	30.6	2,827	2,999	2,796	-1.1	-6.8
Western South Central AR, LA, OK, TX	435	379	541	24.4	42.7	1,930	2,216	2,058	6.6	-7.1
Mountain AZ, CO, ID, MT, NV, NM, UT, WY	793	803	901	13.6	12.2	4,004	4,076	4,340 ·	8.4	6.5
Pacific Coast CA, OR, WA	453	427	480	6.0	12.4	2,239	2,030	2,436	8.8	20.0
U.S. Average ³	785	647	819	4.3	26.6	3,504	3,548	3,523	0.5	-0.7

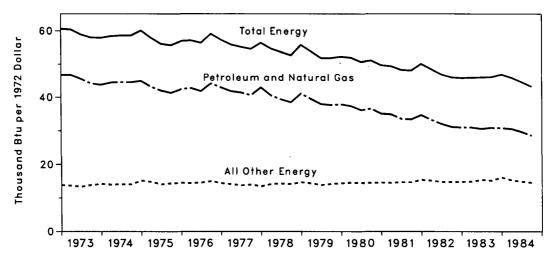
See Note on the last page of this section for explanation of degree-days.
 Normal is based on calculations of data from 1951 through 1980.
 Excludes Alaska and Hawaii.
 Source: • See Note 6 on the last page of this section.

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

		Annual Rate of Energy Gross National Consumption Product (GNP)		Energy Consumption per Dollar of GNP (Seasonally Adjusted)				
				Total Energy	Petroleum and Natural Gas	All Other Energy		
		Quadrillion Btu	Trillion 1972 dollars	, Th	nousand Btu per 1972 doll	ar		
1973		R74.288	1.254	59.2	45.7	13.5		
1974		R72.548	1.246	58.2	44.3	13.9		
1975		R70.551	1.232	R57.3	42.8	R14.5		
1976		R74.366	1.298	R57.3	42.8	R14.5		
1977		R76.292	1.370	R55.7	41.6	R14.1		
1978		R78.091	1.439	R54.3	40.3	R14.0		
1979		R78.900	1.479	53.3	39.1	14.2		
1980		R75.955	1.475	51.5	37.0	14.5		
1981		R73.989	1.512	R48.9	34.3	R14.6		
1982	1st Quarter ¹	R74.338	1.484	50.1	34.7	15.4		
	2nd Quarter ¹	R71.781	1.481	48.5	R33.5	R15.0		
	3rd Quarter ¹	R69.322	1.477	R46.9	R32.2	R14.7		
	4th Quarter ¹	R68.009	1.479	R46.0	R31.4	R14.6		
	Year	R70.842	1.480	R47.9	R32.9	15.0		
1983	1st Quarter ¹	R68.231	1.491	R45.8	31.0	R14.8		
	2nd Quarter ¹	R70.000	1.525	R45.9	31.0	R14.9		
	3rd Quarter ¹	R71.250	1.550	46.0	30.6	15.4		
	4th Quarter ¹	R72.453	1.573	R46.1	R30.9	15.2		
	Year	R70.497	1.535	45.9	30.9	15.0		
1984	1st Quarter ¹	R74.487	1.611	R46.9	30.8	R16.1		
	2nd Quarter ¹	R75.243	1.639	R45.9	R30.6	R15.3		
	3rd Quarter ¹	R73.351	1.645	44.6	R29.7	R14.9		
	4th Quarter ¹	71.863	1.665	43.2	28.6	14.6		
	Year	73.730	1.640	45.0	29.9	15.1		

Revisions result primarily from revised conversion factors. See page 38.

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



¹Quarterly data are seasonally adjusted and shown at annual rates.

R=Revised data.

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

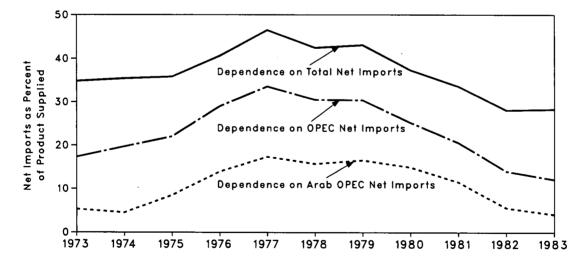
[•] Yearly data may not equal average of quarters due to seasonality adjustments and independent rounding. Sources: • See the last page of this section.

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

Net Imports as Percent of Net Imports² **U.S. Petroleum Products Supplied**

		Trot III.porto			_				
		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	
Annua	ıl Rate		Thousand ba	arrels 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	
	3rd Quarter	872	2,069	4,555	15,668	5.6	13.2	29.1	
	4th Quarter	714	1,894	4,589	15,528	4.6	12.2	29.6	
	Average	807	2,011	4,660	15,708	5.1	12.8	29.7	

U.S. Dependence on Petroleum Net Imports



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

²Net imports equals imports minus exports. Imports from OPEC countries exclude indirect imports which are refined products imported primarily from Caribbean and West European areas and refined from crude oil produced in OPEC countries.

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

⁴Includes Arab OPEC countries plus Ecuador, Gabon, Indonesia, Iran, Nigeria, and Venezuela.

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

• Angula averages may account a processing and countries of countries due to independent regarding.

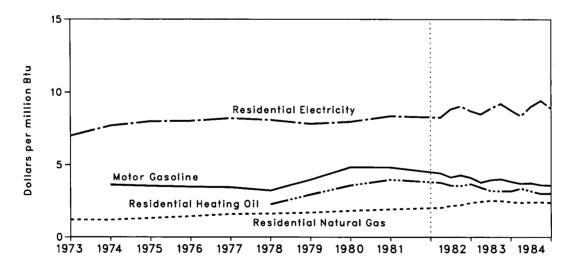
Annual averages may not equal average of quarters due to independent rounding.

Sources: • See the last page of this section.

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

		Leaded Regular Motor Gasoline		Residential Heating Oil		Residential Natural Gas		Residential Electricity	
		cent/gal	\$/MMBtu	cent/gal	\$/MMBtu	cent/Mcf	\$/MMBtu	cent/kWh	\$/MMBtu
1973	Average	NA	NA	NA	NA	121.4	1.19	2.39	7.00
1974	Average	45.1	3.61	NA	NA	121.3	1.18	2.63	7.71
1975	Average	44.1	3.53	NA	NA	132.9	1.30	2.73	8.00
1976	Average	43.4	3.47	NA	NA	145.5	1.43	2.74	8.03
1977	Average	42.9	3.43	NA	NA	162.2	1.59	2.80	8.21
1978	Average	40.1	3.21	31.4	2.26	164.2	1.62	2.76	8.09
1979	Average	49.4	3.95	40.6	2.93	171.8	1.69	2.67	7.83
1980	Average	60.5	4.84	49.4	3.56	186.8	1.82	2.72	7.97
1981	Average	60.4	4.83	54.9	3.96	197.3	1.92	2.85	8.35
1982	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	252.6	R2.45	2.89	8.47
	2nd Quarter	49.3	3.94	44.2	3.19	260.0	R2.52	3.03	8.88
	3rd Quarter	50.0	4.00	43.9	3.17	258.1	R2.50	3.14	9.20
	4th Quarter	47.9	3.83	43.9	3.17	250.9	R2.43	2.99	8.76
	Average	48.6	3.89	45.3	3.27	254.5	R2.47	3.01	8.82
1984	1st Quarter	46.1	3.69	46.4	3.35	245.0	R2.38	2.85	8.35
	2nd Quarter	46.5	3.72	43.9	3.17	247.2	R2.40	3.07	9.00
	3rd Quarter	44.9	3.59	41.6	3.00	248.5	R2.41	3.21	9.41
	4th Quarter	44.5	3.56	41.7	3.01	244.3	2.37	3.03	8.88
	Average	45.5	3.64	43.9	3.17	244.1	2.37	3.04	8.91

Average Cost of Fuels to End Users in Constant (1972) Dollars¹



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.

R=Revised data. NA=Not available.

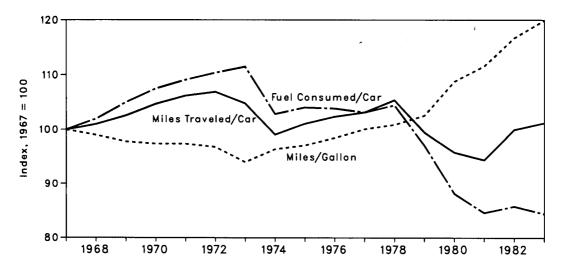
Note: • Geographic coverage is the 50 States and the District of Columbia.

Annual averages may not equal average of quarters due to independent rounding.
 Sources: • See the last page of this section.

Energy Indicator—U.S. Passenger Car Efficiency

	Average Fuel Consumed per Car		•	e Miles I per Car	Average Miles Traveled per Gallon of Fuel Consumed		
	Gallons	Index	Miles	Index	Miles	Index	
1967	684	100.0	9,531	100.0	13.93	100.0	
1968	698	102.0	9,627	101.0	13.79	99.0	
1969	718	105.0	9,782	102.6	13.63	97.8	
1970	735	107.5	9,978	104.7	13.57	97.4	
1971	746	109.1	10,121	106.2	13.57	97.4	
1972	755	110.4	10,184	106.9	13.49	96.8	
1973	763	111.5	9,992	104.8	13.10	94.0	
1974	704	102.9	9,448	99.1	13.43	96.4	
1975	712	104.1	9,634	101.1	13.53	97.1	
1976	711	103.9	9,763	102.4	13.72	98.5	
1977	706	103.2	9,839	103.2	13.94	100.1	
1978	715	104.5	10,046	105.4	14.06	100.9	
1979	664	97.1	9,485	99.5	14.29	102.6	
1980	603	88.2	9,135	95.8	15.15	108.8	
1981	579	84.6	9,002	94.4	15.54	111.6	
1982	587	85.8	9,533	100.0	16.25	116.7	
1983†	577	84.4	9,641	101.2	16.70	119.9	

U.S. Passenger Car Efficiency Index



Notes and Sources for the Energy Summary Section

Notes

- 1. Energy Production: Production of energy includes production of coal, crude oil and lease condensate, natural gas duction of coal, crude oil and lease condensate, natural gas plant liquids, natural gas (dry), electric utility and industrial production of hydroelectric power, electricity generated from nuclear power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. The volumetric data are converted to approximate heat contents (Btu values) of these energy sources using the conversion factors provided in the Conversion Factors secconversion factors provided in the Conversion Factors section of this publication.
- 2. Energy Consumption: Consumption of energy includes consumption of coal, natural gas (including supplemental gaseous fuels), refined petroleum products supplied, electric utility and industrial production of hydroelectric power, net imports of electricity produced from hydroelectric power, net imports of coal coke, electricity generated from nuclear power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. 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, electricity produced from hydroelectric power, and coal coke. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication. For further information on electricity, see the note and sources for imports and on electricity, see the note and sources for imports and exports of electricity in Note 7 of the Notes and Sources for the Consumption Section.
- 4. Energy Exports: Energy exports include coal, crude oil, refined petroleum products, natural gas, electricity produced from hydroelectric power, and coal coke. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication. For more information on electricity, see the note and sources for imports and exports of electricity in Note 7 of the Notes and Sources for the Consumption Section.
- 5. Merchandise Trade Value: The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory (which includes the 50 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 workingday variation, if present and identifiable; annual data are unadjusted, and annual totals may not equal sum of monthly 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 ance" 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 calcumation 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 used represent resident State population data estimated for 1980 by the U.S. Department of Commerce, Bureau of the Census. The data shown in the MER are available sooner than the Historical Climatology Series 5-1 and 5-2 developed by the National Climatic Center, Asheville, NC, which compiles data from some 8,000 weather stations.

Sources

Merchandise Trade Value: • 1974 through 1980: U.S. Department of Commerce, Bureau of the Census, "Highlights of U.S. Export and Import Trade," FT990 (January lights 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

- 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 Statis-
- tics (BLS).

 Residential Heating Oil—EIA, 1983 forward: EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA Form-782B, "Resellers/Retailers' Monthly Petroleum Product Sales Report." Prices prior to 1983 are EIA backcast 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—Angual data 1973 through 1982
- 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 BLS 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,
- mission (FERC), 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: FERC Form 5, "Electric Utility Company Monthly Statement."

 Deflator (The Urban Consumer Price Index)—BLS.

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

Total U.S. energy consumption in 1984 was 73.7 quadrillion Btu, a daily average of 4.3 percent above the 1983 level.

Residential and commercial sector consumption was 26.0 quadrillion Btu in 1984, up a daily average of 1.8 percent from the 1983 level. This sector consumed 35.2 percent of the 1984 total, down from its 36.1-percent share in 1983.

Industrial sector consumption was 27.9 quadrillion Btu in 1984, a daily average increase of 7.3 percent from the 1983 level. The industrial sector accounted for 37.8 percent of the 1984 total consumption, up from the industrial sector's 36.8-percent share of 1983 total consumption.

Transportation sector consumption of energy was 19.9 quadrillion Btu in 1984, a daily average of 3.5 percent more than the December 1983 level. This sector consumed 26.9 percent of the 1984 total, down from the sector's 27.2-percent share in 1983.

The electric utilities consumption of energy was an estimated 26.1 quadrillion Btu in 1984, 4.2 percent higher, on a daily basis, than in 1983. Coal contributed 54.1 percent of the energy consumed by electric utilities in 1984, while hydroelectric power contributed 14.4 percent; nuclear electric power, 13.6 percent; natural gas, 12.3 percent; petroleum, 4.9 percent; and geothermal, wood, waste, wind, photovoltaic, and solar thermal energy, 0.7 percent.

Consumption summary for the month of December is on page 34.

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Consumption Summary for January through December 1984 (Quadrillion (1015) Btu)

	Sector						
Energy Source	Residential and Commercial	Industrial	Transportation	Electric Utilities	Total		
Coal	0.216	2.896	0.000	14.092	17.203		
Natural Gas ¹	6.913	7.385	0.524	3.206	18.031		
Petroleum Products	2.444	7.971	19.302	1.287	31.004		
Hydroelectric Power	0.000	0.033	0.000	3.750	3.783		
Nuclear Electric Power	0.000	0.000	0.000	3.546	3.546		
Net Imports of Coal Coke	0.000	(0.011)	0.000	0.000	(0.011)		
Other ²	0.000	0.000	0.000	0.174	0.174		
Primary Consumption	9.573	18.274	19.826	26.054	73.730		
Electricity	4.904	2.872	0.011	(7.787)			
Net Energy Consumption	14.477	21.146	19.837		55.460		
Electrical System Energy Losses	11.501	6.740	0.026	(18.267)	18.267		
Total Energy Consumption	25.979	27.886	19.863		73.730		

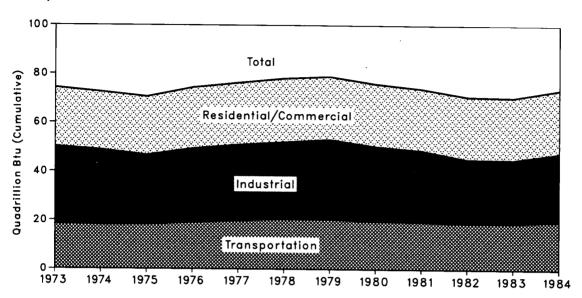
Includes supplemental gaseous fuels.

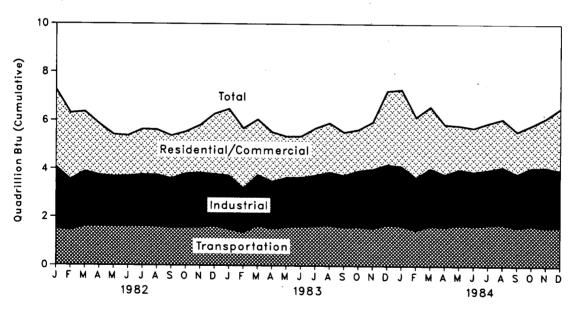
^a Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

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

Consumption of Energy by End-Use Sector

Yearly





Consumption of Energy by End-Use Sector

		Residential and			
		Commercial	Industrial	Transportation	Total
			Quadrillion	n (10 ²⁵) Btu	
1973	Total	24.147	R31.538	18.596	R74.288
1974	Total	23.729	R30.699	18.113	R72.548
1975	Total	23.902	R28.409	18.240	R70.551
1976	Total	25.020	R30.245	19.093	R74.366
1977	Total	R25.386	R31.090	19.808	R76.292
1978	Total	R26.085	R31.415	20.589	R78.091
1979	Total	R25.809	R32.625	20,464	R78.900
1980	Total	R25.656	R30.606	19.693	R75.955
1981	Total	R25.244	R29.252	19.495	R73.989
1982	January	R3.194	R2.536	1.536	R7.265
	February	2.749	R2.101	1.449	R6.295
	March	2.471	R2.268	1.620	R6.355
	April	2.110	R2.122	1.621	R5.849
	May	1.723	R2.078	1.613	R5.411
	June	R1.674	R2.090	1.611	R5.374
	July	R1.878	R2.124	1.640	R5.644
	August	R1.867 R1.764	R2.144 R2.031	1.607 1.576	R5.622 R5.372
	September October	1.736	R2.230	1.577	R5.545
	November	1.970	R2.262	1.582	R5.817
	December	2.498	R2.154	1.634	R6.292
	Total	R25.632	R26.140	19.066	R70.842
1983	January	R2.749	R2.227	R1.506	R6.483
1000	February	R2.486	R1.821	R1.379	R5.685
	March	R2.295	R2.102	R1.660	R6.058
	April	R2.041	R1.955	R1.541	R5.533
	May	R1.705	R2.049	R1.603	5.355
	June	R1.703	R2.019	R1.639	R5.364
	July	R1.942	R2.107	R1.648	5.700
	August	R2.033	R2.209	R1.676	5.922
	September	R1.783	R2.156	1.598	5.538
	October	R1.708	R2.325	R1.616	5.648
	November	R1.955	R2.448 R2.492	R1.566 R1.714	R5.966 R7.246
	December Total	R3.041 R25.440	R25.909	R19.146	R7.246
				D4 004	D7 004
1984	January	R3.169	R2.473	R1.661	R7.304
	February	R2.493	R2.180	R1.496 R1.669	R6.168 R6.604
	March	R2.555 R2.066	R2.380 R2.176	R1.633	R5.869
	April May	R1.821	R2.301	R1.712	5.830
	June	R1.822	R2.248	R1.669	R5.742
	July	R1.941	R2.265	R1.731	R5.941
	August	R1.987	R2.376	R1.743	R6.111
	September	R1.756	R2.226	1.613	R5.596
	October	R1.760	R2.408	R1.688	R5.857
	November	R2.045	R2.489	R1.619	R6.152
	December	2.563	2.365	1.630	6.557
	Total	25.979	27.886	19.863	73.730

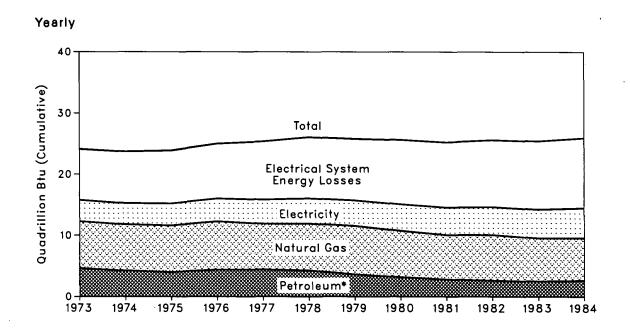
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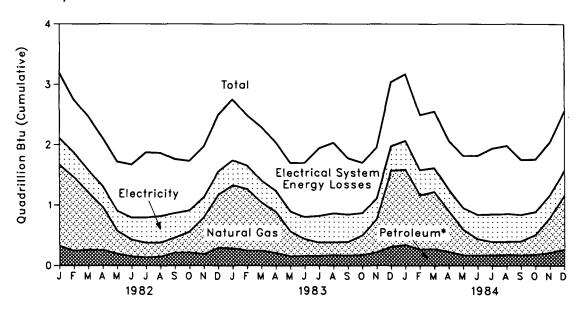
Notes: • Geographic coverage is the 50 States and the District of Columbia.

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

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

Consumption of Energy by the Residential and Commercial Sector





^{*}Includes coal.

Consumption of Energy by the Residential and Commercial Sector

			Natural			Electrical System Energy		Year to
		Coal	Gas¹	Petroleum	Electricity	Losses	Total	Date
					Quadrillion (1015) 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	R9.021	25.020	
1977	Total	0.207	7.461	4.206	3.955	R9.556	R25,386	
1978	Total	0.215	7.624	4.070	4.116	R10.061	R26.085	
1979	Total	0.188	7.891	3.448	4.184	10.100	R25.809	
1980	Total	0.147	7.539	3.035	4.355	R10.580	R25.656	
1981	Total	0.171	R7.242	2.634	4.497	R10.700	R25.244	
	-							50.404
1982	January	0.023	1.344	0.303	0.440	1.084	R3.194	R3.194
	February	0.016	1.222	0.228	0.409	0.874	2.749 2.471	5.942 8.413
	March	0.013	0.948	0.252	0.373 0.346	0.886 0.798	2.471	10.523
	April	0.016	0.706 0.382	0.243 0.181	0.346	0.798	1.723	R12.246
	May	0.011 0.008	0.362	0.144	0.358	0.885	R1.674	13.919
	June	0.008	0.279	0.121	0.412	R1.085	R1,878	R15.797
	July August	0.015	0.234	0.134	0.431	1.053	R1.867	R17.664
	September	0.015	0.247	0.197	0.403	0.902	R1.764	R19.427
	October	0.015	0.343	0.201	0.349	R0.828	1.736	R21.163
	November	0.019	0.605	0.172	0.340	0.834	1.970	R23.134
	December	0.023	0.878	0.274	0.381	0.942	2.498	R25.632
	Total	0.189	7.433	2.449	4.566	R10.993	R25.632	
1983	January	R0.021	R1.046	R0.266	0.413	R1.003	R2.749	R2.749
	February	0.018	R1.017	R0.231	0.390	R0.831	R2.486	R5.235
	March	0.013	R0.796	R0.236	0.365	R0.885	R2.295	R7.530
	April	R0.018	R0.679	R0.190	R0.351	R0.801	R2.041	R9.571
	May	0.011	R0.413	R0.144	0.327	R0.810	R1.705	R11.276
	June	R0.009	R0.280	R0.152	0.359	R0.903	R1.703	R12.979
	July	0.014	R0.226	R0.144	0.435	R1.123	R1.942	R14.921
	August	0.013	R0.218	R0.159	0.472	R1.171	R2.033	R16.953
	September	R0.018	R0.225	R0.150	R0.450	R0.940	R1.783	R18.736
	October	R0.019	R0.324	R0.159	R0.366	R0.841	R1.708 R1.955	R20.444
	November December	R0.020 0.025	R0.542 R1.258	R0.202 R0.290	0.350 0.402	R0.841 R1.065	R3.041	R22.399 R25.440
	Total	R0.197	R7.024	R2.322	R4.681	R11.215	R25.440	H25.440
1984	January	R0.025	R1.246	R0.318	0.476	R1.103	R3.169	R3.169
1304	February	R0.022	R0.898	R0.247	0.416	R0.911	R2.493	R5.662
	March	R0.016	R0.946	R0.261	R0.394	R0.937	R2.555	R8.217
	April	R0.022	R0.669	R0.206	0.360	R0.809	R2.066	R10.283
	May	0.013	R0.424	R0.158	0.355	R0.871	R1.821	R12.104
	June	0.010	0.272	R0.160	0.395	R0.985	R1.822	R13.926
	July	0.016	R0.222	R0.160	R0.449	R1.094	R1.941	R15.867
	August	0.015	R0.219	R0.165	0.456	R1.132	R1.987	R17.854
	September	0.020	R0.230	R0.153	0.433	R0.920	R1.756	R19.610
	October	0.017	R0.325	R0.166	0.377	R0.876	R1.760	R21.371
	November	R0.018	R0.570	R0.200	0.383	R0.874	R2.045	R23.415
	December	0.022	0.892	0.250	0.410	0.989	2.563	25.979
	Total	0.216	6.913	2.444	4.904	11.501	25.979	

Includes supplemental gaseous fuels.

R = Revised data.

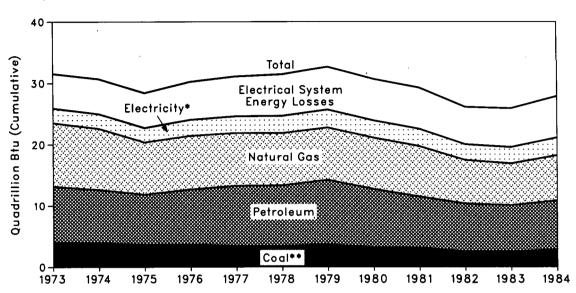
Notes: • Geographic coverage is the 50 States and the District of Columbia.

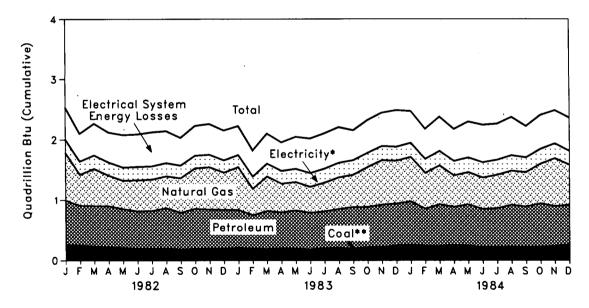
• Totals may not equal sum of components due to independent rounding.

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

Consumption of Energy by the industrial Sector

Yearly





^{*}Includes hydroelectric power.
**Includes net imports of coal coke.

Consumption of Energy by the Industrial Sector

		Coal	Natural Gas¹	Petro- leum	Hydro- electric Power	Net Imports of Coal Coke	Electricity	Electrical System Energy Losses	Total	Year to Date
					C	Quadrillion (10) ¹⁵) Btu			
1973	Total	R4.059	10.388	9.113	0.035	(0.008)	2.341	R5.611	R31.538	
1974	Total	R3.872	10.003	8.698	0.033	R0.056	2.337	5.700	R30.699	
1975	Total	R3.669	8.532	8.151	0.032	0.014	2.346	5.665	R28.409	
1976	Total	R3.663	8.761	9.018	0.033	0.000	2.573	R6.198	R30.245	
1977	Total	R3.456	8.636	9.786	0.033	0.015	2.682	R6.484	R31.090	
1978	Total	R3.315	8.539	9.890	0.032	R0.125	2.761	6.755	R31.415	
1979	Total	R3.594	8.549	10.576	0.034	R0.063	2.873	R6.936	R32.625	
	Total	R3.156	8.394	9.524	0.033	R(0.035)	2.781	R6.752	R30.606	
1980 1981	Total	R3.158	R8.257	8.295	0.033	R(0.016)	2.817	R6.707	R29.252	
1901	IOlai									
1982	January	R0.265	0.793	0.731	0.003	0.000	0.215	0.530	R2.536	R2.536
	February	R0.249	0.520	0.658	0.003	(0.001)	0.214	0.458	R2.101	R4.637
	March	R0.239	0.622	0.663	0.003	(0.002)	0.220	0.523	R2.268	R6.906
	April	R0.221	0.515	0.676	0.003	(0.001)	0.214	0.493	R2.122 R2.078	R9.028 R11.106
	May	R0.214	0.480	0.634	0.003	R(0.002) (0.004)	0.213 0.217	0.536 0.538	R2.076	R13.195
	June	R0.200	0.524	0.612 0.625	0.003 0.003	(0.004)	0.217	0.563	R2.124	R15.319
	July	R0.193	0.529 0.537	0.625	0.003	(0.003)	0.214	0.528	R2.144	R17.463
	August	R0.195 R0.186	0.583	0.600	0.002	(0.001)	0.205	0.458	R2.031	R19.494
	September October	R0.194	0.563	0.657	0.002	(0.001)	0.208	0.492	R2.230	R21.724
	November	R0.197	0.708	0.641	0.002	R(0.001)	0.207	0.508	R2.262	R23.986
	December	R0.199	0.626	0.635	0.002	(0.001)	0.199	0.494	R2.154	R26.140
	Total	R2.552	7.116	7.798	0.033	R(0.022)	2.542	R6.121	R26.140	
1983	January	R0.211	R0.716	R0.620	0.003	(0.001)	0.198	R0.480	R2.227	R2.227
1903	February	R0.196	R0.444	R0.548	0.003	(0.001)	0.201	R0.430	R1.821	R4.048
	March	R0.187	R0.583	R0.626	0.003	(0.001)	0.206	R0.498	R2.102	R6.150
	April	R0.205	R0.486	R0.586	0.003	(0.002)	0.207	R0.471	R1.955	R8.105
	May	R0.198	R0.480	R0.625	0.003	(0.002)	0.214	R0.529	R2.049	R10.154
	June	R0.182	R0.439	R0.601	0.003	(0.001)	0.226	R0.568	R2.019	R12.173
	July	R0.206	R0.485	R0.602	0.003	(0.002)	0.227	R0.585	R2.107	R14.279
	August	R0.209	R0.533	R0.638	0.002	(0.001)	0.238	R0.590	R2.209	R16.488
	September	R0.203	R0.540	R0.679	0.002	(0.001)	0.238	R0.496	R2.156	R18.644
	October	R0.217	R0.665	R0.666	0.002	(0.001)	0.235	0.541	R2.325	R20.969
	November	R0.227	R0.741	R0.695	0.002	(0.001)	0.230	R0.553	R2.448	R23.417
	December	R0.249	R0.710	R0.696	0.002	(0.003)	0.229	R0.607	R2.492	R25.909
	Total	R2.490	R6.822	R7.583	0.033	(0.016)	2.648	R6.349	R25.909	
1984	January	R0.260	R0.736	R0.718	0.003	0.001	0.228	0.528	R2.473	R2.473
	February	R0.240	R0.601	R0.610	0.003	0.002	0.227	R0.497	R2.180	R4.652
	March	R0.241	R0.645	R0.689	0.003	(0.001)	0.238	R0.565	R2.380	R7.032
	April	R0.254	R0.525	R0.631	0.003	0.000	0.236	0.529	R2.176	R9.209
	May	″R0.246	R0.536	R0.682	0.003	(0.001)	0.241	R0.593	R2.301	R11.510
	June	R0.225	R0.527	R0.625	0.003	H(0.002)	0.249	R0.621	R2.248	R13.758
	July	R0.229	R0.558	R0.634	0.003	(0.001)	R0.245	R0.597	R2.265 R2.376	R16.023 R18.399
	August	R0.232	R0.568	R0.689	0.002	(0.002) 0.000	0.254 0.243	R0.632 0.517	H2.376 H2.226	R20.625
	September	R0.225	R0.574	R0.664 R0.716	0.002 0.002	0.000 R(0.003)	0.243	0.517 R0.562	R2.408	R23.033
	October	R0.233	R0.656 R0.797	R0.716	0.002	(0.003)	0.242	0.551	R2.408	R25.522
	November December	R0.243 0.266	0.663	0.658	0.002	(0.003)	0.241	0.549	2.365	27.886
	Total	2.896	7.385	7.971	0.002	(0.001)	2.872	6.740	27.886	27.000
	ı Otal	∠.090	7.300	7.37 1	0.033	(0.011)	2.012	0.740	27.000	

Revisions result primarily from revised conversion factors. See page 38.

Includes supplemental gaseous fuels.

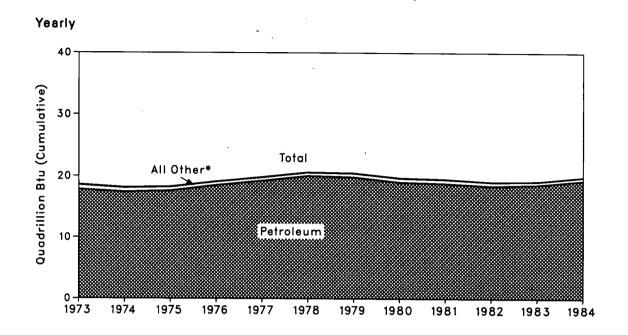
R = Revised data.

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

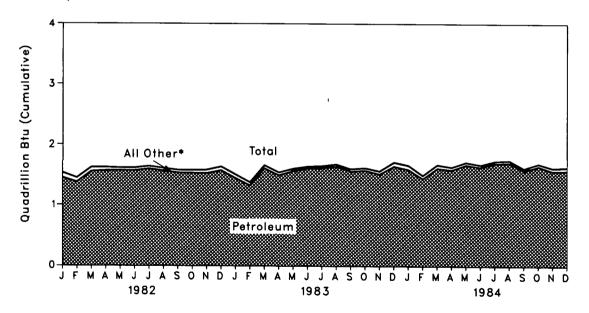
• Totals may not equal sum of components due to independent rounding.

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

Consumption of Energy by the Transportation Sector



Monthly



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

Consumption of Energy by the Transportation Sector

		Coal	Natural Gas¹	Petroleum	Electricity	Electrical System Energy Losses	Total	Year to Date
		•		Qua	drillion (1015) 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	0.002	0.595	17.610	0.010	0.025	18.240	
1976	Total	(²)	0.559	18.499	0.010	0.025	19.093	
	Total	(²)	0.543	19.230	0.010	0.025	19.808	
1977 1978	Total		0.539	20.019	0.009	0.023	20.589	
		(2)	0.539	19.817	0.010	0.025	20.464	
1979	Total	(²)	0.648	19.009	0.010	0.025	19.693	
1980	Total	(²)	0.646 R0.657	18.800	0.011	0.026	19.495	
1981	Total	(2)	HU.03/					
1982	January	(2)	0.081	1.452	0.001	0.002	1.536	1.536
	February	(²)	0.068	1.378	0.001	0.002	1.449	2.985
	March	(²)	0.063	1.554	0.001	0.002	1.620	4.605
	April	(²)	0.050	1.568	0.001	0.002	1.621	6.226
	May	(2)	0.039	1.571	0.001	0.002	1.613	7.840
	June	(2)	0.038	1.570	0.001 0.001	0.002 0.002	1.611 1.640	9.451 11.090
	July	(2)	0.039 0.039	1.597 1.565	0.001	0.002	1.607	12.698
	August September	(2)	0.039	1.534	0.001	0.002	1.576	14.274
	October	(²)	0.039	1.529	0.001	0.002	1.577	15.850
	November	(²)	0.053	1.525	0.001	0.002	1.582	17.432
	December	(²)	0.060	1.571	0.001	0.002	1.634	19.066
	Total	(²)	0.613	18.417	0.011	0.026	19.066	
1983	January	(2)	R0.059	R1.444	0.001	0.002	R1.506	R1.506
	February	$\binom{2}{2}$	0.049	R1.327	0.001	0.002	R1.379	R2.885
	March	(²)	0.047	R1.609	0.001	0.002	R1.660	R4.545
	April	(²)	0.041	R1.497	0.001	0.002	R1.541	R6.086
	May	(²)	0.034	R1.566	0.001	0.002	R1.603	R7.688
	June	(²)	0.029	R1.607	0.001	0.002	R1.639	R9.327
	July	(²)	0.031	R1.614	0.001	0.002	R1.648	R10.975
	August	(2)	0.033	R1.640	0.001	0.002	R1.676	R12.651
	September	(²)	0.032	R1.563	0.001	0.002	1.598	R14.249
	October	(2)	0.037	R1.576 R1.517	0.001 0.001	0.002 0.002	R1.616 R1.566	R15.866 R17.431
	November December	(2) (2)	0.045 0.066	R1.645	0.001	0.002	R1.714	R19.146
	Total	(²) (²)	R0.504	R18.605	R0.011	R0.026	R19.146	1113.140
1984	January	(2)	0.066	R1.592	0.001	0.002	R1.661	R1.661
1504	February	(2)	R0.051	R1.442	0.001	0.002	R1.496	R3.157
	March	(²)	R0.054	R1.613	0.001	0.002	R1.669	R4.826
	April	(²)	0.042	R1.588	0.001	0.002	R1.633	R6.459
	May	(²)	0.037	R1.672	0.001	0.002	R1.712	R8.171
	June	(²)	0.033	R1.633	0.001	0.002	R1.669	R9.839
	July	(²) (²)	0.034	R1.694	[⊘] 0.001	0.002	R1.731	R11.571
	August	(2)	0.034	R1.705	0.001	0.002	R1.743	R13.313
	September	(2)	0.033	1.577	0.001	0.002	1.613	R14.926
	October	(2)	0.038	R1.647	0.001	0.002	R1.688	R16.614
	November	(2)	0.048	R1.567	0.001	0.002	R1.619	R18.233
	December	(2)	0.054	1.573	0.001	0.002	1.630	19.863
	Total	(2)	0.524	19.302	0.011	0.026	19.863	

Revisions result primarily from revised conversion factors. See page 38.

Includes supplemental gaseous fuels.

*Since 1976, the amount of coal consumed by the transportation sector has been negligible.

R = Revised data.

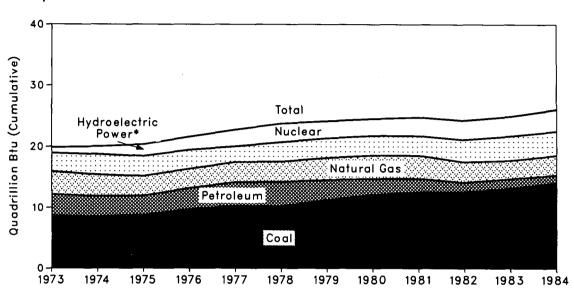
Notes: • Geographic coverage is the 50 States and the District of Columbia.

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

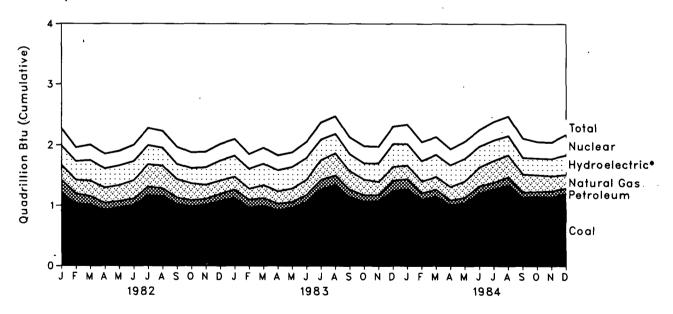
Additional Notes and Sources: • See the last four pages of this section.

Energy Input at Electric Utilities

Yearly



Monthly



[•]Includes other.

Energy Input at Electric Utilities

		Coal	Natural Gas¹	Petro- leum²	Hydro- electric Power ³	Nuclear Electric Power	Other•	Total	Year to Date
					Quadrillion	(10¹⁵) Btu			
1973	Total	8.658	3.748	3.515	2.975	0.910	0.046	19.852	
1974	Total	R8.534	3.519	3.365	3.276	1.272	0.056	R20.022	
1975	Total	8.786	3.240	3.166	3.187	1.900	0.072	20.350	
1976	Total	9.720	3.152	3.477	3.032	2.111	0.081	R21.574	
1977	Total	R10.262	3.284	3.901	2.482	2.702	0.082	R22.713	
1978	Total	R10.238	3.297	3.987	3.110	3.024	0.068	R23.724	
1979	Total	R11.260	R3.613	3,283	3.107	2.776	0.089	R24.128	
1980	Total	R12.123	R3.810	2.634	3.085	2.739	0.114	R24.505	
1981	Total	12.583	R3.768	2.202	3.072	3.008	0.127	R24.760	
1982	January	1.204	0.246	0.221	R0.307	R0.284	0.009	R2.272	R2.272
	February	1.036	0.228	0.162	R0.301	R0.224	0.008	1.958	4.230
	March	1.015	0.255	0.144	R0.332	R0.252	0.007	2.004	R6.235
	April	0.922	0.255	0.120	R0.310	R0.241	0.007	1.855 1.902	R8.090 9.991
	May	0.967	0.267	0.106 0.111	R0.314 R0.303	R0.240 R0.266	0.008 0.010	2.000	9.991 R11.992
	June	1.005	0.306 R0.366	0.111	R0.304	R0.282	0.010	2.276	R14.268
	July	1.171 1.162	0.374	0.125	R0.282	R0.277	0.010	R2.231	R16.499
	August September	1.026	R0.304	0.110	R0.240	R0.281	0.010	R1.971	R18.470
	October	0.982	0.283	0.106	R0.241	R0.257	0.011	R1.880	R20.349
	November	1.013	R0.235	0.100	R0.276	R0.257	0.011	R1.892	R22.241
	December	1.079	0.222	0.120	R0.319	R0.270	0.009	R2.019	R24.259
	Total	12.582	R3.342	1.568	R3.528	R3.131	0.108	R24.259	
1983	January	R1.128	0.215	0.137	R0.334	R0.273	0.011	R2.097	R2.097
	February	R0.967	R0.182	0.134	R0.321	R0.242	0.008	R1.855	R3.952
	March	R0.996	R0.214	0.133	R0.345	R0.261	R0.009	R1.958	R5.909
	April	R0.921	R0.209	0.110	R0.341	R0.244	0.009 0.007	R1.833 R1.883	R7.743 R9.626
	May	R0.965	R0.225	0.097 0.119	R0.349 R0.348	R0.240 R0.263	R0.009	R2.059	R11.685
	June	R1.064 R1.276	R0.255 R0.324	0.119	R0.325	R0.279	0.012	R2.373	R14.058
	July August	R1.348	R0.363	0.158	R0.304	R0.286	R0.015	R2.474	R16.531
	September	R1.146	R0.307	0.133	R0.264	R0.273	0.014	R2.127	R18.658
	October	R1.071	R0.259	0.106	R0.253	R0.281	0.015	R1.986	R20.644
	November	R1.082	R0.221	0.099	R0.290	R0.273	0.013	R1.977	R22.621
	December	R1.249	R0.225	0.171	R0.363	R0.287	0.011	R2.307	R24.929
	Total	R13.213	R2.998	1.544	R3.838	R3.203	R0.133	R24.929	
1984	January	R1.278	R0.222	0.169	R0.341	R0.318	0.011	R2.338	R2.338
	February	R1.109	R0.193	0.108	R0.322	R0.309	0.013	R2.054	R4.392
	March	R1.157	R0.212	0.115	R0.348	R0.290	0.015	R2.137	R6.529
	April	R1.009	R0.227	0.081	R0.343	R0.263	0.014	R1.936	R8.465
	May	R1.050	R0.272	0.090	R0.357	R0.280	0.014	R2.064	R10.529
	June	R1.207	R0.308	0.121	R0.330 R0.321	R0.274 R0.303	0.013 0.013	R2.253 R2.388	R12.782 R15.170
	July	R1.280 R1.345	R0.359 R0.360	0.111 0.137	R0.299	R0.320	0.013	R2.478	R17.648
	August September	R1.345 R1.145	R0.299	0.137	0.259	R0.315	0.015	R2.116	R19.764
	October	R1.154	R0.278	0.084	0.258	R0.270	0.016	R2.060	R21.825
	November	R1.148	R0.252	0.100	R0.267	R0.268	0.016	R2.052	R23.876
	December	1.210	0.224	0.086	0.305	0.337	0.018	2.178	26.054
	Total	14.092	3.206	1.287	3.750	3.546	0.174	26.054	

Revisions result primarily from revised conversion factors. See page 38.

Includes supplemental gaseous fuels.

*Includes petroleum products reported as "oil consumed in steam plants" through 1979 and "heavy oil" from 1980 forward, which are assumed to be residual fuel oil; petroleum products reported as "oil consumed in gas turbine and internal combustion engine plants" through 1979 and "light oil" from 1980 forward, which are assumed to be distillate fuel oil and kerosene; and petroleum coke.

*Includes net imports of electricity.

*Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric thirties distribution sustants.

utility distribution systems. R=Revised data.

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

Totals may not equal sum of components due to independent rounding. Additional Notes and Sources: • See the last four pages of this section.

Consumption Summary for December 1984 (Quadrillion (1015) Btu)

Sector

Energy Source	Residential and Commercial	Industrial	Transportation	Electric Utilities	Total
Coal	0.022	0.266	0.000	1.210	1.497
Natural Gas ¹	0.892	0.663	0.054	0.224	1.832
Petroleum Products	0.250	0.658	1.573	0.086	2.567
Hydroelectric Power	0.000	0.002	0.000	0.305	0.307
Nuclear Electric Power	0.000	0.000	0.000	0.337	0.337
Net Imports of Coal Coke	0.000	(0.001)	0.000		(0.001)
Other ²	0.000	0.000	0.000	0.018	0.018
Primary Consumption	1.164	1.588	1.627	2.178	6.557
Electricity	0.410	0.227	0.001	(0.638)	
Net Energy Consumption	1.574	1.816	1.628		5.016
Electrical System Energy Losses	0.989	0.549	0.002	(1.541)	1.541
Total Energy Consumption	2.563	2.365	1.630		6.557

Includes supplemental gaseous fuels.
 Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.
 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 next page.

Notes and Sources for the Consumption Section

- 1. Total Energy Consumed: Total energy consumed includes coal, natural gas (including supplemental gaseous fuels), refined petroleum products supplied, electric utility and industrial generation of hydroelectric power, net imports of electricity generated from hydroelectric power, electricity generated from nuclear power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by 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, refrigeration, cooking, and clothes drying; by nonmanufacturing 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 elec-tricity primarily for resale.
- 3. Conversion Factors: See the Conversion Factors section of this publication.
- 4. Coal: Coal is anthracite, bituminous coal, (including subbituminous 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" bution 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" Report.
- 5. Natural Gas: Natural gas consumption by end-use sector is based on data presented in the table titled "Natural Gas Consumption" in Part 4. For the Part 2 consumption section, lease and plant fuel consumption are added to the industrial sector deliveries and pipeline fuel represents the transportation sector's use of natural gas. Values in Btu are derived using the conversion factors provided in the Conversion Factors section of this publication.

- Sources:
 1973 through 1975: DOI, BOM, Minerals Yearbook, "Natural Gas" chapter.
- 1976 through 1978: EIA, Energy Data Reports, "Natural Gas, Annual."
- 1979: ÉlA, Natural Gas Production and Consumption

- 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."

 - Report."
 1982 forward: EIA, EIA Form 759, "Monthly Power
- 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 Sur-
- 19/3 through 19/3: DOI, BOM, Milleral mussify 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.
- 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 small amounts of kerosene and kerosene-type jet fuel deliveries) reported as consumed in internal combustion and gas turbine engine plants. From January 1980, electric utility consumption of distillate fuel is assumed to be the petroleum products reported as "light oil" (minus small amounts of kerosene deliveries through 1982) consumed at utilities.

Sources: 1973 through September 1977—FPC Form 4, "Monthly Power Plant Report;" October 1977 through 1981—FERC, FPC Form 4, "Monthly Power Plant Report;" 1982 forward—EIA, Form EIA-759, "Monthly Power Plant Report."

Non-Electric Utility Sectors, Annual Estimates

Through 1983.

The aggregate non-electric utility use of distillate fuel is total distillate fuel supplied minus the electric utility consumption. The non-electric utility annual totals are allocated into the individual non-electric totals are allocated into the individual non-electric utility sectors in proportion to the amount of distilate fuel delivered to end users, grouped into sectors from EIA's "Deliveries of Fuel Oil and Kerosene" ("Deliveries") reports (based primarily on data collected by Form EIA-821, previously Form EIA-172) as follows:

Residential sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;

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

Notes and Sources for the Consumption Section (continued)

Petroleum (continued):
 Distillate Fuel (continued)
 Non-Electric Utility Sectors, Annual Estimates

 Non-Electric Othinty Sectors, Annual Estimates
 Through 1983 (cont'd).
 Commercial sector deliveries are directly from the "Deliveries" reports for 1979 through 1983.
 Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into residential. residential, commercial, and industrial (including farm) in proportion to the 1979 shares;

Industrial sector deliveries for 1979 through 1983 are the sum of deliveries for industrial, farm, oil company, off-highway, diesel, and all other uses. Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares, and this estimated industrial portion is added to oil company, off-highway diesel, and all other uses; and

Transportation sector deliveries are the sum of deliveries for railroad, vessel bunkering, on-highway diesel, and military uses for all years.

Non-Electric Utility Sectors, Monthly Estimates Through 1983.

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 legititud since legistry 1981

troleum Institute since January 1981.

The transportation sector highway use portion is allocated into the months in proportion to each 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 permonth month.

Industrial sector monthly estimates are made by subtracting the residential and commercial, transportation, and electric utility sector estimates from each month's total distillate fuel

supplied.

Non-Electric Utility Sectors, 1984 Forward.
Each month's non-electric utility consumption subtotal is disaggregated into the major end-use sectors in proportion to the shares each sector held of the non-electric utility subtotal in the same month

- Jet Fuel-Through 1982, small amounts of kerosenetype jet fuel were consumed by the electric utility sector. Kerosene-type jet fuel deliveries to electric utilities as reported on the FERC-423 (formerly FPC-423) were used as estimates of this consumption. All remaining jet fuel (kerosene-type and naphtha-type) is consumed by the transportation sector.
- Kerosene-Total product supplied monthly is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" ("Deliveries") reports (based primarily on data collected by Form EIA-821, previously Form EIA-172) as follows:

 — Residential sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Deliveries are directly from the "Deliveries" reports for 1979 through 1983.
 - eries for 1983 are used as estimates for 1984 forward. Prior to 1979, each year's deliveries category called "heating" is split into residential,

commercial, and industrial in proportion to the 1979 shares:

Commercial sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Deliveries for 1983 are used as estimates for 1984 forward. Prior to 1979, each year's deliveries category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares; and

snares; and Industrial sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Deliveries for 1983 are used as estimates for 1984 forward. Prior to 1979, each year's deliveries category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares, and this estimated industrial (including farm) portion is added to "all other uses."

- Liquefied Petroleum Gases (LPG)
 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 be the annual consumption of LPG by the sector:
 - The quantity of LPG sold each year that is consumed in internal combustion engines is allocated between the transportation and industrial sectors according to a 5-year moving average of the percentage of carburetors sold to each end-use category. The proportions range from 31 percent transportation and 69 percent industrial in 1973 to 52 percent transportation and 48 percent industrial in 1982.
 - LPG consumed annually by the industrial sector is estimated as the difference between LPG's 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 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

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: Because the collection of data under Form EIA-174 was discontinued after data year 1982, the 1982 annual end-use shares based on the 1982 sales data are applied for all succeeding periods to estimate LPG end-use consumption.
- 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 toppyed.

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

Notes and Sources for the Consumption Section (continued)

6. Petroleum (continued):

- · Motor Gasoline-Total product supplied monthly is allocated to the major end-use sectors in proportion to aggregations of annual sales categories formed from the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Tables MF-21, MF-24, and MF-25, as follows:
 - Commercial sales are the sum of sales for public non-highway use, miscellaneous use, and unclassified use
 - Industrial sales are the sum of sales for agriculture, construction, and industrial and commercial use as classified in the Highway Statistics; and
 - Transportation sales are the sum of sales for highway use (minus the sales of special fuels, which are primarily diesel fuel and are accounted for in the transportation sector of distillate fuel) and sales for marine use.
- Petroleum Coke—The portion consumed by the electric utility sector is from EIA Form 759, "Monthly Power Plant Report" (formerly FPC Form 4). The remaining petroleum coke is assigned to the industrial sector.

Residual Fuel

Electric Utility Sector, All Periods.

Monthly and annual consumption 1973 through 1979 is assumed to be the amount of oil reported as consumed in steam-electric power plants. From January 1980, electric utility consumption of residu-

January 1980, electric utility consumption of residual fuel is assumed to be the petroleum products reported as "heavy oil" consumed at utilities.

Sources: 1973 through September 1977—FPC Form 4, "Monthly Power Plant Report;" October 1977 through 1981—FERC, FPC Form 4, "Monthly Power Plant Report," 1982 forward—EIA, Form EIA-759, "Monthly Power Plant Report."

Non-Electric Utility Sectors, Annual Estimates

Through 1983.

The aggregate non-electric utility use of residual fuel is total residual fuel supplied minus the electric utility consumption. The non-electric utility annual totals are allocated into the individual non-electric utility sectors in proportion to the amount of residual fuel delivered to end users, grouped into sectors from ElA's "Deliveries of Fuel Oil and Kerosene" ("Deliveries") reports (based primarily on data collected by Form EIA-821, previously Form EIA-172) as follows:

- Commercial sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into commercial and industrial in proportion to the 1979 shares;
- Industrial sector deliveries for 1979 through 1983 are the sum of deliveries for industrial, oil company, and all other uses. Prior to 1979, each year's deliveries subtotal of the heating plus industrial category is split into commercial and industrial in proportion to the 1979 shares; and this estimated industrial portion is added to oil company and all other uses; and
- Transportation sector deliveries are the sum of deliveries for railroad, vessel bunkering, and

military uses for all years.

Non-Electric Utility Sectors, Monthly Estimates Through 1983.

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.
- Non-Electric Utility Sectors, 1984 Forward. Each month's non-electric utility consumption sub-total is disaggregated into the major end-use sec-tors in proportion to the shares each sector held of the non-electric utility subtotal in the same month in 1983
- · Road Oil-All product supplied is assigned to the industrial sector.
- All Other Petroleum Products—The product supplied of all remaining petroleum products is assigned to the industrial sector.
- 7. Hydroelectric Power: Includes electricity generated by hydroelectric power at electric utilities, small amounts in the industrial sector, and net imports of electricity, which are assumed to be generated by hydroelectric power and are included in the hydroelectricity in the electric utilities sector.

Sources for electric utilities sector:

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

Sources for industrial sector:

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

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

Note for imports and exports of electricity:

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

- Sources for imports and exports of electricity:

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

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

Notes and Sources for the Consumption Section (continued)

8. Nuclear Electric Power:

Sources:

- 1973 through 1976: FPC, Form 4, "Monthly Power. Plant Report.
- 1977 through 1981; FERC, FPC Form 4, "Monthly Power Plant Report."
- 1982 forward: EIA, EIA Form 759, "Monthly Power Plant Report."
- 9. Net Imports of Coal Coke: Net imports means imports minus exports, and the parentheses indicate that exports are greater than imports Sources:
 - 1973 through 1975: DOI, BOM, *Minerals Yearbook,* "Coke and Coal Chemicals," chapter.
 - 1976 through 1980: ElA, Energy Data Report, "Coke and Coal Chemicals," annual.
 - 1981: EIA, Energy Data Report, "Coke Plant Report,"
 - quarterly. 1982 forward: EIA, *Quarterly Coal Report*.
- 10. Other Energy: "Other" is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution

Sources: same as Note 8 above, for Nuclear Electric

11. Electricity: Sales of electricity represent consumption. From the sources cited below the following electricity sales categories are available: residential, commercial, industrial, and other. For the end-use estimates in this section, the "other" category (which is primarily sales for use in government buildings) is added to the commercial sector except for approximately 4 percent, which represents the transportation sector use of electricity, primarily by railroads and railways. Sales of electricity are converted into Btu at the rate of 3,412 Btu per kilowatthour.

Sources of sales data:

- of Electric Operating Revenue and Income."

 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." 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 System Energy Losses: Electrical system energy losses are calculated as the difference between total energy input at electric utilities and the total energy content of electricity sold to end-use consumers. Most of these losses occur at steam-electric power plants (conventional and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. This loss is a thermodynamically necessary feature of the steam-electric cycle. Part of the energy input to output losses are a result of imputing fossil energy equivalent inputs for hydroelectric and other energy sources, since there is no generally accepted practice for measuring these thermal conversion rates. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to end-use consumers (also called "line-losses"), and unaccounted for electricity. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, approximately 67 percent of total energy input is lost in conversion; of electricity generated, approximately 5 percent is lost in plant use and 9 percent in transmission and distribution. Calculated electrical energy system losses may be less than actual losses, because primary consumption does not include the energy equivalent of utility purchases of electricity from non-electric utilities and from Canada and Mexico, although they are included in electricity sales.

Explanation of Revisions

Revisions to British thermal unit (Btu) data in this Monthly Energy Review (MER) include:

- Implementation of updated factors for converting physical unit data into Btu data.
- Implementation of revised conversion factors for coking coal and coal coke. The revisions were made to reflect the fact that coal carbonization to produce coke yields by-products and incurs conversion losses. Previously, the factor 26 million Btu per short ton was used for both series. Beginning with this MER, separate factors are applied: 26.8 million Btu per short ton for coking coal and 24.8 million Btu per short ton for coking coal and 24.8 million Btu per short ton for coking coal and coal coke series and, consequently, throughout total energy production, consumption, imports, exports, and net imports.

See the Conversion Factors section of this publication for listings of all factors and their sources.

Domestic crude oil production during February 1985 was estimated to be 8.9 million barrels per day, virtually the same as the January 1985 rate, but 2.3 percent higher than the rate in February 1984.

Total petroleum imports averaged 3.9 million barrels per day in February 1985, 11.2 percent less than the January 1985 rate and 31.1 percent less than the February 1984 rate.

In February 1985, 15.4 million barrels per day of petroleum products were supplied for domestic use, 4.5 percent below the level in January 1985 but 0.2 percent above the level of the previous February. Motor gasoline accounted for 41.0 percent of the total; distillate fuel oil, 21.5 percent; and residual fuel oil, 8.2 percent.

Motor gasoline supplied during February 1985 averaged 6.3 million barrels per day, 0.4 percent below the rate in January 1985, but 1.2 percent above the rate of the previous February. Stocks of motor gasoline totaled 225

million barrels at the end of February 1985, 9 million barrels below the level at the end of January 1985 and 12 million barrels below the level 1 year earlier.

In February 1985, 3.3 million barrels of distillate fuel oil were supplied per day, 4.4 percent lower than the January 1985 rate but 16.5 percent higher than the February 1984 rate. Distillate fuel oil ending stocks for February 1985 were 124 million barrels, 18 million barrels lower than the stocks level the previous month, and 8 million barrels below the February 1984 ending stocks level.

Residual fuel oil supplied in February 1985 averaged 1.3 million barrels per day, 14.7 percent lower than in January 1985 and 21.2 percent lower than the February 1984 rate. Residual fuel oil stocks measured 46 million barrels at the end of February 1985, 1 million barrels less than the stocks level of the previous month and 12 million barrels less than the ending stocks level for February 1984.



^{*}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 November 1984. The total import data above include imports into the Strategic Petroleum Reserve.

Crude Oil1 and Petroleum Products Overview

		Field Production		tion	Stock \	Withdrawal ²		Ending Stocks ³
		Total Domestic	Crude Oil	Natural Gas Plant Production	Crude Oil ⁵	Petroleum Products	Petroleum Products Supplied	Crude Oil ^s and Petroleum Products
				Thousand i	barrels per d	lay		Million barrels
1973	Average	10,975	9,208	1,738	11	-146	17,308	1,008
1974	Average	10,498	8,774	1,688	-62	-117	16,653	°1,074
1975	Average	10,045	8,375	- 1,633	°-17	8-14 5	16,322	1,133
1976	Average	9,774	8,132	1,603	-39	96	17,461	1,112
1977	Average	9,913	8,245	1,618	-170	-378	18,431	1,312
1978	Average	10,328	8,707	1,567	-78	172	18,847	1,278
1979	Average	10,179	8,552	1,584	-148	-25	18,513	1,341
1980	Average	10,214	8,597	1,573	-98	-42	17,056	*1,39 2
1981	Average	10,230	8,572	1,609	8-290	¹130	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	-440 363	-44 447	14,839	1,408
	September	10,279	8,701 8,701	1,518 1,530	263 -548	-447 -47	15,022 14,859	1,414
	October November	10,299 10,359	8,697	1,609	-398	-47 -361	15,009	1,432 1,455
	December	10,339	8,598	1,628	128	688	15,487	*1,430
	Average	10,252	8,649	1,550	-136	283	15,296	1,700
1983	January	10,331	8,697	1,580	*-499	°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 8,770	1,604 1,641	-274 114	-442 -182	14,962	1,508
	November December	10,461 9,983	8,770 8,397	1, 54 1 1,544	-329	-182 2,133	15,500 16,726	1,510 1,454
	Average	10,299	8,688	1,559	-214	2,133 234	15,231	1,404
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	-184	-184	15,547	1,514
	August	10,476	8,781	1,663	250	185	16,130	1,500
	September	10,464	8,759 9,47	1,666	266 709	-736	15,315 15,631	1,514
	October	10,549 10,558	8,847 8,846	1,648 1,680	-798 -166	-211 -176	15,631 15,602	1,545 1,556
	November December	10,558 10,478	8,846 8,797	1,649	-166 -255	-176 275	15,802	1,556 1,555
	Average	10,475	8,757	1,633	-235 -196	- 83	15,707	1,499
1985	•	10,435	8,929	1,642	-196 R18	-63 R1,443	15,707 R16,142	R1,510
1300	January February†	10,612 NA	8,928	1, 04 2 NA	298	818	15,415	1,463
	Average	NA NA	8,929	NA	151	1,146	15,797	7,400

Includes lease condensate.

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

Stocks are totals as of end of period.

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

Includes stocks located in the Strategic Petroleum Reserve.

Includes crude oil for storage in the Strategic Petroleum Reserve.

Net imports equals imports minus exports.

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

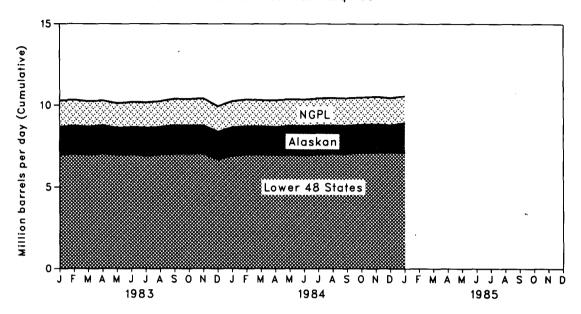
Crude Oil¹ and Petroleum Products Overview (continued)

			Imports		Exports			
		Total	Crude Oil	Petroleum Products	Total	Crude Oil	Petroleum Products	Net imports ⁷
				T	housand 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	. •	7,313	5,287	2,026	223	8	215	7,090
	Average	8,807	6,615	2,193	243	50	193	8,565
1977	Average		6,356	2,008	362	158	204	8,002
1978	Average	8,363		1,937	471	235	236	7,985
1979	Average	8,456	6,519	•	544	235 287	258	6,365
1980	Average	6,909	5,263	1,646	595	228	256 367	5,401
1981	Average	5,996	4,396	1,599				
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	542 600	4,008
	June	5,327	3,836	1,491	703	94	609	4,624
	July	5,890	4,248	1,642	741 858	229 304	512 554	5,149 4,386
	August	5,244	3,851	1,392	791	184	606	4,560 4,624
	September	5,414 5,006	3,636	1,778 1,636	932	270	662	4,374
	October	5,306 5,744	3,670 3,862	1,882	786	262	524	4,958
	November	5,744 4,606	3,000	1,605	860	193	667	3,746
	December	5,113	3,48 8	1,625	815	236	579	4,298
	Average	5,113		•				•
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	721 500	3,918
	May	5,089	3,360	1,729	848	280	568	4,241
	June	5,326	3,577	1,749	774 571	144	630 426	4,552 5,170
	July	5,741	3,871	1,870 1,933	663	145 172	426 491	5,170 5,496
	August	6,159 6,130	4,227 4,210	1,919	684	177	507	5,490 5,445
	September	6,129 5,258	3,446	1,812	576	140	436	4,682
	October November	5,210	3,446	1,873	679	186	494	4,531
	December	5,033	3,337 3,213	1,820	639	95	544	4,394
	Average	5,050 5,051	3,329	1,722	739	164	575	4,312
	Average							
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	548 642	5,150
	June	5,304	3,410 3,646	1,893 1,741	864 536	222 108	642 429	4,440 4,851
	July	5,387 5,036		1,741	732	190	542	4,305
	August September	5,036 5,173	3,244 3,294	1,793	732 664	162	502	4,505 4,510
	October	5,173 5,767	3,2 94 3,751	2,016	599	141	458	5,167
	November	5,767 5,534	3,552	1,983	854	202	652	4,680
	December	4,909	3,126	1,783	986	185	801	3,924
	Average	5,381	R3,403	1,979	722	181	541	4,660
	•							
1985	January	R4,376	R2,700	R1,676	792	144	647	3,584
	February†	3,886	2,338	1,548	NA	NA	NA	NA
	Average	4,143	2,529	1,615	NA	NA	NA	NA

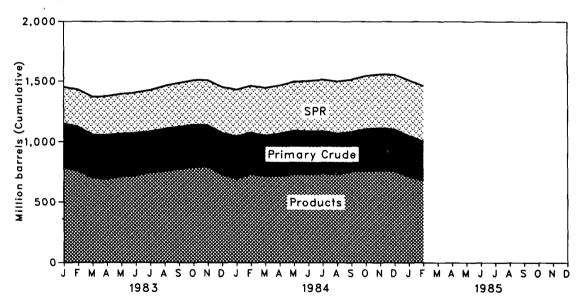
Footnotes continued.
†Italics denote estimates based upon preliminary data. R=Revised data. NA=Not available.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • See the last page of this section.

Overview

Production of Crude Oil and Natural Gas Plant Liquids

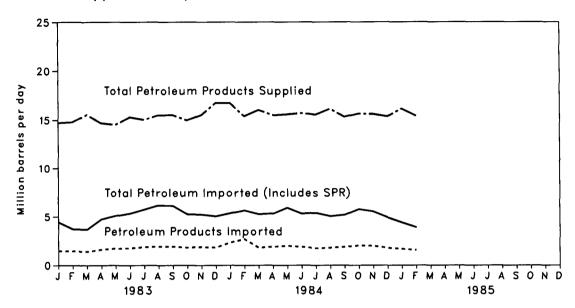


Ending Stocks

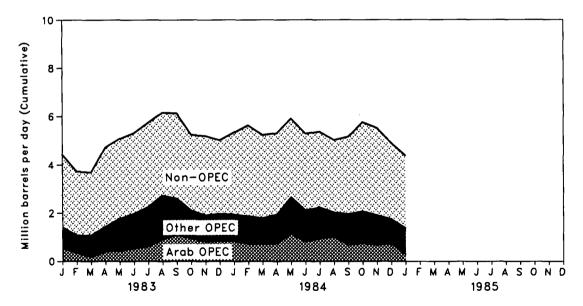


Overview

Products Supplied and Imports



Petroleum Imports by Source



Crude Oil¹ Supply and Disposition

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				Сарріу					
		Fleid Pro	oduction		Imports		Stock W	/ithdrawal³	Unaccounted for Crude
		Domestic	Alaskan	Total	SPR4	Other	SPR'	Other	Oil
					Thousan	d barrels per d	iay		
1973	Average	9,208	198	3,244		3,244		11	3
1974	Average	8,774	193	3,477		3,477		-62	-25
1975	Average	8,375	191	4,105		4,105		-17	17
1976	Average	8,132	173	5,287		5,287		-39	77
1977	Average	8,245	464	6,615	21	6,594	-20	-150	-6
1978	Average	8,707	1,229	6,356	162	6,195	-163	84	-57
1979	Average	8,552	1,401	6,519	67	6,452	-67	-81	-11
1980	Average	8,597	1,617	5,263	44	5,219	-45	-52	34
1981	Average	8,572	1,609	4,396	256	4,141	-336	°46	83
1982	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	1,091	2,849	190	2,659	-233	196	231
	May	8,683	1,707	3,309	204	3,105	-17,6	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 8,607	1,706	3,670	216 180	3,454 3,683	-216 -179	-332	249
	November December	8,697 8,598	1,676 1,682	3,862 3,000	124	2,877	-179	-219 252	-124 35
		8,649	1,696	3,488	165	3,323	-174	38	71
	Average	0,049	-	-				_	
1983	January	8,697	1,732	2,964	219	2,746	-219	°-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 8,667	1,662 1,687	3,360 3,577	.289 190	3,071 3,387	-293 -188	278 66	169 370
	June July	8,636	1,715	3,871	274	3,597	-166 -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	246 309	3,681	-245	-371	463
	June July	8,743 8,769	1,792 1,769	3,410 3,646	329	3,101 3,317	-309 -328	214 144	490 25
	August	8,781	1,725	3,244	180	3,064	-326 -179	429	383
	September	8,759	1,725	3,294	53	3,240	-53	320	234
	October	8,847	1,708	3,751	187	3,564	-231	-567	385
	November	8,846	1,707	3,552	219	3,332	-160	-6	135
	December	8,797	1,658	3,126	229	2,897	-241	-14	340
	Average	8,757	1,735	R3,403	. 197	R3,205	-195	-1	R337
1985	January	8,929	1,788	R2,700	R223	R2,478	R-223	R241	23
	February†	8,928	1,787	2,338	82	2,257	-82	<i>380</i>	NA
	Average	8,929	1,788	2,528	156	2,373	-156	307	NA

Includes lease condensate. Stocks are totals as of end of period.

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

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

*Strategic Petroleum Reserve.

*Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.

*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.

Crude Oil¹ Supply and Disposition (continued)

		Supply		Dispos	ition	Ending Stocks ²			
		Crude Used Directlys	Crude Losses	Refinery Inputs	Exports	Product Supplied ^a	Total	SPR•	Other Primary
		·	Thousan	d barrels per	day		ı	Million barre	els
1973	Average	-19	13	12,431	2	NA	242		242
1973	Average	-15	13	12,133	3	NA	265		265
1975	Average	-17	13	12,442	6	NA	271		271
1976	Average	-18	15	13,416	8	NA	285		285
1977	Average	-14	16	14,602	50	NA	348	7	340
1978	Average	-14	16	14,739	158	NA	376	67	309
1979	Average	-13	16	14,648	235	NA	430	91	339
1980	Average	-13	15	13,481	287	NA	466	108	4358
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 60	3	11,392 11,806	174 262	NA NA	610 609	256 261	355 348
	May	-62 -60	3 7	12,494	94	NA NA	608	264	344
	June 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	262 193	NA NA	648 •644	290 294	358 •350
	December	-53 -59	1 3	11,514 11,774	236	NA NA	-044	294	-350
	Average			•					
1983	January	NA	2	11,143	117	71 71	660 669	301 306	360 363
	February	NA NA	3 2	10,633 10,859	262 174	71 70	667	312	355
	March April	NA NA	2	11,433	88	68	679	318	361
	May	NA 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	172 177	64 66	700 708	352 361	349 347
	September	NA NA	1	12,482 11,782	140	63	708 716	367	349
	October November	NA NA	2	12,004	186	64	713	371	341
	December	NA	<u> </u>	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
1304	February	NA	i	12,100	185	65	727	387	340
	March	NA	2	11,936	236	62	728	392	336
	April	NA	(s) 2	11,893	172	64	744	397	348
	May	NA NA	2	12,243	219 222	62 61	764 766	404 414	359 353
	June July	NA NA	2 1	12,263 12,087	108	60	772	424	348
	August	NA NA	i	12,403	190	63	764	429	335
	September	NA	-2	12,327	162	66	756	431	325
	October	NA	-1	11,976	141	69	781	438	343
	November	NA	-1 (-)	12,103	202	62	786 704	443	343
	December	NA	(s)	11,758	185	64	794	451	344
	Average	NA	1	12,055	181	64			
1985	January	NA	.1	R11,456	144	69	R793	457	R336
	February†	NA ·	NA	11,472	NA NA	NA NA	780	460	320
	Average	NA	NA	11,463	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.

Crude Oil and Petroleum Product Imports

Imports from OPEC Sources¹

					United							Total
		Algeria	Libya	Saudi Arabia	Arab Emirates	Indo- nesia	Iran	Nigeria	Vene- zuela	Other OPEC ²	Total OPEC	Arab OPEC
						Thousa	nd barrel	s per day				
1973	Average	136	164	486	71	213	223	459	1,135	106	2,993	915
1974	Average	190	4	461	74	300	469	713	979	88	3,280	752
1975	Average	282	232	715	117	390	280	762	702	122	3,601	1,383
1976	Average	432	453	1,230	254	539	298	1,025	700	134	5,066	2,424
1977	Average	559	723	1,380	335	541	535	1,143	690	287	6,193	3,185
1978	Average	649	654	1,144	385	573	555	919	645	226	5,751	2,963
1979	Average	636	658	1,356	281	420	304	1,080	690	212	5,637	3,056
1980	Average	488	554	1,261	172	348	9	857	481	130	4,300	2,551
1981	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
1302	February	139	92	693	89	244	Ö	584	355	102	2,297	1,054
	March	91	37	555	155	200	Ō	522	399	91	2,051	860
	April	85	Ö	511	122	215	Ö	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	242 283	108 34	313	504 528	106	2,084	810
	November	247	14 0	489 237	47 12	265	88	479 462	399	115 73	2,235	797 421
	December Average	155 170	26	552	92	248	35	514	412	73 97	1,690 2,146	854
					47	255	43		337	54		
1983	January	207	0	282 214	47 9	255 217	43	186 92	393	28	1,412 1,068	537 338
	February March	115 63	Ö	103	ů.	138	ŏ	121	440	201	1,066	183
	April	227	ŏ	162	· (s)	210	ŏ	186	523	125	1,432	389
	May	286	ŏ	122	12	405	37	385	455	69	1,771	420
	June	300	ŏ	188	40	466	38	467	335	138	1,973	528
	July	283	Ŏ	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	621 574	242	2,657	1,131
	June	284 332	0	411 429	46 112	415 384	0	243 204	574 535	139 242	2,112	806 946
	July August	404	Ö	438	82	281	Ö	114	487	216	2,237 2,021	993
	September	343	ŏ	159	113	333	17	160	689	147	1,961	672
	October	333	ŏ	287	114	436	ő	208	578	115	2,070	754
	November	295	ŏ	183	124	409	24	163	536	173	1,907	665
	December	220	ŏ	210	211	314	12	159	449	174	1,750	725
	Average	318	. 0	322	117	342	10	214	536	163	2,023	809
			0	106	60	274	0	262	481	89	1,367	289

¹Excludes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products that were refined from crude oil produced in OPEC countries.

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

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

Footnotes continued on following page.

Crude Oil and Petroleum Product Imports (continued)

Imports from Non-OPEC Sources

		Bahamas	Canada	Mexico	Nether- lands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico	Virgin Islands	Other Non- OPEC	Total Non- OPEC	Total Imports
						Thousa	nd barrels p	er day				
1973	Average	174	1,325	16	585	255	15	99	329	465	3,263	6,256
1973	•	164	1,070	8	511	251	8	90	391	340	2,832	6,112
	Average	152	846	71	332	242	14	90	406	300	2,454	6,056
1975	Average		599	87	275	274	31	88	422	353	2,247	7,313
1976	Average	118		179	211	289	126	105	466	550	2,614	8,807
1977	Average	171	517 467	318	229	253	180	94	429	484	2,613	8,363
1978	Average	160		439	231	190	202	92	431	548	2,819	8,456
1979	Average	147	538				176	88	388	491	2,609	6,909
1980	Average	78	455	533	225	176	375	62	300 327	534	2,609 2,672	5,909 5,996
1981	Average	74	447	522	197	133						
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 36	307 266	480 690	2,433 2,507	4,484
	April	82	360	476 766	184 152	166 95	247 516	47	302	607	2,507 2,981	4,378 4,811
	May	77 32	419 481	797	148	129	557	58	322	708	3,231	5,327
	June 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	85 108	421 484	20 42	183 235	759 699	3,295 3,318	4,727
	May	135	518 586	944 830	153 173	120	464 440	42 48	262	757	3,353	5,089 5,326
	June	137 69	634	849	198	107	369	37	364	864	3,490	5,741
	July 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	574 551	738	99 205	120	362 388	27	292 236	924 826	3,150 3,015	5,387 5,036
	August	57 101	551 537	621 762	205 133	98 103	388 490	34 38	236 245	826 803	3,015	5,036 5,173
	September	101 152	537 685	762 827	112	122	490 486	36 37	245 321	955	3,213	5,173 5,767
	October November	88	637	822	174	115	544	44	283	921	3,628	5,767
	December	75	690	684	141	98	337	46	235	853	3,160	4,909
	Average	86	629	739	185	94	396	42	294	893	3,358	5,381
1985	January	90	610	765	125	113	345	32	235	695	3,009	4,376

Footnotes continued.

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.

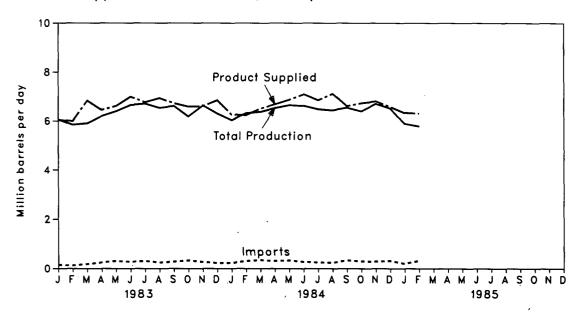
• Totals may not equal sum of components due to independent rounding.

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

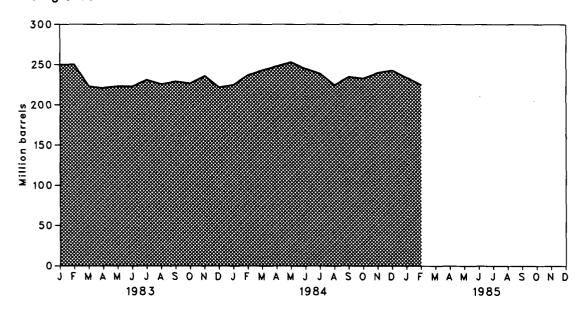
Sources: • See the last page of this section.

Finished Motor Gasoline Supply and Disposition

Products Supplied, Total Production, and Imports



Ending Stocks



Finished Motor Gasoline Supply and Disposition

		Supply				Dis		Ending Stocks ¹		
		Total		Stock		Р	roduct Suppl	ied	Total Motor	Finished Motor
		Production	Imports ²	Withdrawal ² ³	Exports	Total	Unleaded ⁴	Unleaded Percent	Gasoline ⁵	Gasoline
			4	Thousand	d barrels pe	r day		of Total	Million	barrels
1973	Average	6,535	134	9	4	6,674			209	
1974	Average	6,360	204	-24	2	6,537			°218	
1975	Average	6,520	184	¢-28	2	6,675			235	
1976	Average	6,841	131	10	3	6,978			231	
1977	Average	7,033	217	-72	2	7,177	1,976	27.5	258	
1978	Average	7,169	190	54	1	7,412	2,521	34.0	238	
1979	Average	6,852	181	2	(s)	7,034	2,798	39.8	237	
1980	Average	6,506	140	-66	1	6,579	3,067	46.6	°261	
1981	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
1902	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	185 211	-42 101	15 11	6,391 6,574	3,351 3,451	52.4 52.5	234 230	192 189
	November December	6,273 6,542	178	-165	7	6,549	3,485	53.2	4235	4194
		6,338	197	25	20	6,539	3,409	52.1	200	134
	Average						3,364	55.6	050	007
1983	January	6,065	153 128	⁵-167 24	(s)	6,051 6,000	3,364 3,264	54.4	250 250	207 207
	February March	5,848 5,906	186	768	(s) 23	6,836	3,622	53.0	223	183
	March April	6,201	255	-3	1	6,452	3,492	54.1	221	183
	May	6,397	305	-83	i	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 6,650	308 329	-153 -106	(s)	6,682 6,873	3,854 3,990	57.7 58.1	248 253	207 211
	May June	6,620	272	217	(s) 17	7,092	4,210	59.4	245	204
	July	6,481	247	130	9	6,849	4,094	59.8	239	200
	August	6,436	243	437	1	7,114	4,263	59.9	225	187
	September	6,545	333	-263	2	6,614	3,982	60.2	235	194
	October	6,396	293	42	1	6,730	4,074	60.5	233	193
	November	6,705	286	-175	11	6,805	4,243	62.3	240	198
	December	6,513	308	-225	16	6,580	4,185	63.6	243	205
	Average	R6,467	R292	R-55	6	6,698	3,987	R60.0		
1985	January	R5,889	R204	R245	2	R6,336	4,026	63.5	R234	R198
	February†	5,785	318	223	NA	6,313	NA	NA	225	189
	Average	5,840	258	235	NA	6,325	NA	NA		
1Stocks	are totals as	of end of perio	d.							

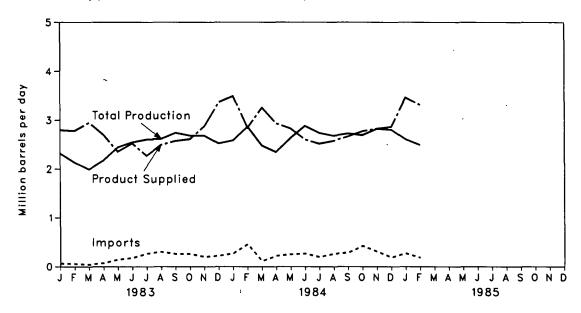
¹Stocks are totals as of end of period.
²Beginning in 1981, excludes blending components.
³A negative number indicates an increase in stocks and a positive number indicates a decrease.

Includes gasohol.

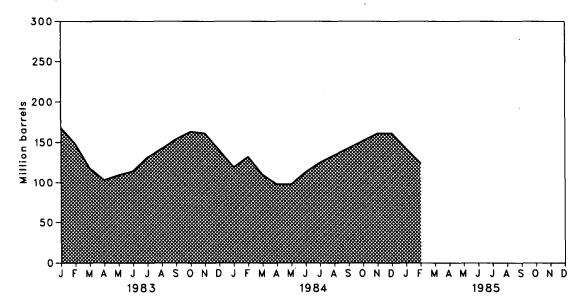
Includes gasohol.
Includes motor gasoline blending components.
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Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.
Italics denote estimates based upon preliminary data. R=Revised data. NA=Not available. (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.

Distillate Fuel Oil Supply and Disposition

Product Supplied, Total Production, and Imports



Ending Stocks



Distillate Fuel Oil Supply and Disposition

			Sup	ply		Dispo	sition	Ending Stocks ¹	
		Total Production	Imports	Stock Withdrawal ²	Crude Used Directly ³	Exports	Product Supplied ³		
				Thousand ba	arrels per day			Million barrels	
1973	Average	2,822	392	-115	2	9	3,092	196	
1974	Average	2,669	289	-9	2	2	2,948	1200	
1975	Average	2,654	155	440	2	1	2,851	209	
1976	Average	2,924	146	62	ī	1	3,133	186	
1977	Average	3,278	250	-176	i	1	3,352	250	
1978	Average	3,167	173	93	1	3	3,432	216	
1979	Average	3,153	193	-34	i	3	3,311	229	
1980	Average	2,662	142	64	1	3	2,866	1205	
1981	Average ⁵	2,613	173	438	10	5	2,829	192	
	_	•	97	876	10	90	3.484	164	
1982	January	2,591 2,427	132	605	11	90	3,085	147	
	February	2,427 2,288	48	682	10	84	2,945	126	
	March 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	1 179	
	Average	2,606	93	35	10	74	2,671		
1983	January	2,321	68	1 580	NA	173	2,797	168	
1903	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	2,736	198	-375	NA	40	2,518	125	
	August	2,678	263	-291	NA NA	74	2,575	134	
	September	2,724	285	-322 - 295	NA NA	22 47	2,665 2,773	143 152	
	October	2,692	424 308	-295 -281	NA NA	47 24	2,773 2,824	161	
	November December	2,821 2,803	190	-201 -11	NA NA	120	2,862	161	
			27 0	-57	NA NA	51	2,848	101	
4655	Average	2,686		-57 R624	NA NA	41	2,040 R3,462	R142	
1985	January Exhrustre	R2,608 <i>2,494</i>	R271 <i>186</i>	703	NA NA	NA NA	3,311	124	
	February†	2,494 2,554	231	661	NA NA	NA NA	3,390	124	
1Stocks	Average are totals as of		201	501	NO.	170	0,000		

Ending

¹Stocks are totals as of end of period.
²A negative number indicates an increase in stocks and a positive number indicates a decrease.
³Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Note 4 on the last page of this section.

this section.

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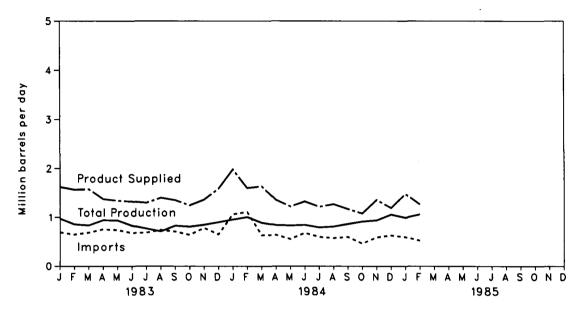
Notes: Geographic coverage is the 50 States and the District of Columbia.

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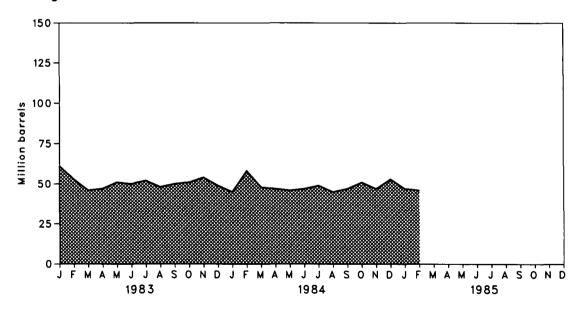
Sources: See the last page of this section.

Residual Fuel Oil Supply and Disposition

Product Supplied, Total Production, and Imports



Ending Stocks



Residual Fuel Oil Supply and Disposition

	1		Sup	pply	•	Dispo	sition	Ending Stocks ¹
		Total Production	Imports	Stock Withdrawal ²	Crude Used Directly ³	Exports	Product Supplied ³	
				Thousand ba	rrels per day			Million barrels
1973	Average	971	1,853	5	17	23	2,822	53
1973	Average	1,070	1,587	-17	13	14	2,639	160
1975	. •	1,235	1,223	12	15	15	2,462	74
1976	Average 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	492
1981	Average ⁵	1,321	800	437	48	118	2,088	78
	•	1,235	831	301	53	235	2,185	69
1982	January 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	747 776	6 32	43 48	186 209	1,598 1,716	1 66
	Average	1,070					•	•
1983	January	972	691	1258 057	NA	294	1,626	61 50
	February	857 835	647 686	257 227	NA NA	191 169	1,570 1,579	53 46
	March April	941	753	-10	NA ,	310	1,379	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	7,10	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 35	NA NA	130 200	1,357	47 46
	May	829 841	554 676	-17	NA NA	200 176	1,218 1,324	46 47
	June July	792	596	-77	NA NA	99	1,213	49
	August	808	572	146	NA NA	260	1,266	45
	September	861	596	-77	NA	214	1,165	47
	October	912	461	-123	NA	174	1,075	51
	November	936	588	119	NA	286	1,357	47
	December	1,055	627	-193	NA	299	1,190	53
	Average	893	674	-11	NA	190	1,365	
1985	January	R991	R594	R208	NA	R312	R1,481	R47
	February†	1,057	521	-23	NA	<i>-293</i>	1,263	46
1Stocks	Average	1,022	559	98	NA	25	1,378	

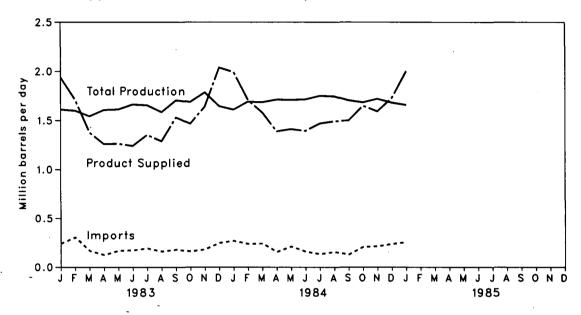
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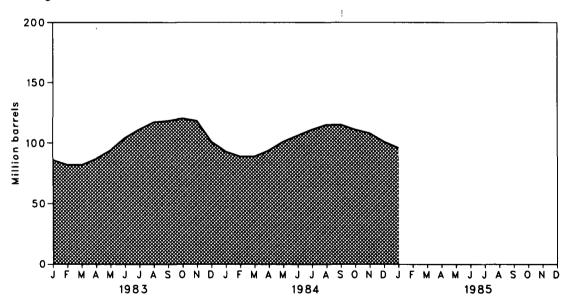
^{*}Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.
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Sources: • See the last page of this section.

Liquefied Petroleum Gases Supply and Disposition

Product Supplied, Total Production, and Imports



Ending Stocks



Liquefied Petroleum Gases¹ Supply and Disposition

						•		Ending
			Supply			Disposition	1	Stocks ²
		Total Production	Imports	Stock Withdrawal ³	Refinery Inputs	Exports	Product Supplied	
				Thousand bar	rels 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	4113
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	1120
1981	Average	1,571	244	٠-18	289	42	1,466	135
1982	January	1,565	314	443	391	67	1,863	121
1002	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 07	254	61 85	1,276	111
	September	1,538	247 194	37 97	274 306	81	1,463 1,421	110 107
	October November	1,517 1,542	267	175	363	37	1,583	102
	December	1,580	258	256	395	56	1,642	194
	Average	1,528	226	111	300	65	1,499	04
1983	January	1,611	240	4520	313	118	1,939	86
1000	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	178 160	-30 -81	236 268	86 32	1,531 1,467	118 120
	October November	1,688 1,785	180	-61 70	362	33	1,640	118
	December	1,645	247	575	363	66	2,038	1101
	Average	1,642	190	4	253	73	1,509	101
1984	January	1,610	269	4470	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 -132	232	43	1,469	111
	August	1,744	154	-132 -24	241	34 26	1,491	115
	September October	1,704 1,683	128 207	-24 137	283 322	26 56	1,499 1,648	115 111
	October November	1,719	212	90	376	52 ⁻	1,593	108
	December	1,681	237	241	351	82	1,727	101
	Average	1,700	195	19	291	48	1,576	
1985	January	1,658	255	466	309	70	2,001	86

Includes ethane, propane, normal butane, and isobutane.

Stocks are totals as of end of period.

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

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.

Other Petroleum Products¹ Supply and Disposition

			Supply			Disposition	1	Ending Stocks ²
		Total Production	Imports	Stock Withdrawal ³	Refinery Inputs	Exports	Product Supplied	
				Thousand bar	rels per day			Million barrels
1973	Average	3,693	502	-9	750	166	3,270	208
1974	Average	3,558	432	-28	665	174	3,123	1218
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	1247
1981	Average	3,739	226	446	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	725 706	161	2,631	293
	April	3,408	309 318	73 184	796 824	204 210	2,790 2,785	290 285
	May	3,317 3,547	315	123	812	216	2,765 2,954	281
	June 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	4253
	Average	3,453	334	80	787	211	2,869	
1983	January	3,194	322	-4·19	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	497 424	-6 -107	788 711	236 195	3,255 2,990	266 270
	October November	3,578 3,568	424 441	95	912	238	2,957	270 267
	December ·	3,123	479	361	883	257	2,823	•256
	Average	3,460	411	6	712	242	2,923	230
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
	August	3,855	561	24	648	172	3,621	256
	September	3,768	539	-51	712 704	238	3,306	258
	October	3,580	632	30 64	724 048	180	3,336	257 255
	November	3,530 3,383	592 421	64 464	948 1,054	281 284	2,960 2,931	255 240
	December	3,383			799		•	240
4005	Average	3, 633	549 353	21 -102	799 494	246 223	3,158	242
1985	January	3,258	352	-102	494	223	2,792	243

¹Includes pentanes plus, other hydrocarbons and alcohol, unfinished oil, gasoline blending components, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases. ²Stocks are totals as of end of period. ³A negative number indicates an increase in stocks and a positive number indicates a decrease. ⁴In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.

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

Sources: • See the last page of this section.

Notes and Sources for the Petroleum Section

Notes

- 1. During 1981 the listing (frame) of operators of all facilities required to complete each monthly survey was updated. The refinery frame was found to be complete and accurate, although the frames for bulk terminals, pipelines, and crude oil stocks facilities were found to be outdated. A variety of sources (published directories, listings, and exploratory surveys) were researched for potential new respondents. As a result of this research, a significant number of respondents were added to the frames. The increase in the respondents for the frames effects the stocks of acide oil and nationals. 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 redesignaforms. 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. 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 unfintypically 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 FIA modified its survey forms to ning 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—
- Residual Fuel Oil: 1974—75; 1980—91; and 1982—68.
- · Liquefied Petroleum Gases: 1974-113;1980-128; and
- 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 1982 through Joseph 1985: Detailed electrics in January 1983 through Joseph 1985: Detailed electrics in
- · January 1983 through January 1985: Detailed statistics in appropriate issues of the Petroleum Supply Monthly (except
- domestic crude oil production).

 February 1985: Estimates based on EIA weekly data
- (except domestic crude oil production).

 January 1983 through February 1985: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey.

Total dry natural gas production in the United States during January 1985 was an estimated 1.6 trillion cubic feet (Tcf). This was 4.5 percent lower than in January 1984.

Consumption of natural and supplemental gas in January 1985 was an estimated 2.2 Tcf, 2.1 percent higher than in January 1984.

Deliveries to residential consumers during December 1984 were an estimated 576 billion cubic feet (Bcf), 27.8 percent lower than in December 1983. Total deliveries to industrial consumers during December 1984 were an estimated 550 Bcf, 7.7 percent lower than in December 1983.

Total deliveries to industrial consumers during 1984 were an estimated 6,112 Bcf, a daily average of 8.0 percent more than during 1983. Deliveries to residential consumers during 1984 were an estimated 4,331 Bcf, a daily average of 1.4 percent lower than in 1983.

Imports of natural gas in January 1985 were an estimated 104 Bcf, 9.5 percent higher than in the previous January. Receipts of foreign gas during January 1985 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 January 1985 totaled 2,242 Bcf. This was 7.2 percent above stocks available a year earlier. Net withdrawals from storage during January 1985 were 619 Bcf, 21.6 percent higher than during the previous January.

^{*}Gas available for withdrawal.

Production Summary

		Gross Wet Gas Withdrawals ¹	Used for Repressuring ²	Nonhydro- carbon Gas Removed³	Vented and Flared	Marketed Production (Wet)*	Extraction Loss ³	Total Dry Gas Production ^s
			•	· .E	Billion cubic fe	et		
1973	Total	24,067	1,171	NA	248	622.648	917	°21,731
1974	Total	22,850	1,080	NA	169	°21,601	887	°20,713
1975	Total	21,104	861	NA	134	420,109	872	19,236
1976	Total	20,944	859	NA	132	619,952	854	°19,098
1977	Total	21,097	935	NA	137	°20,025	863	¹⁶ 19,163
1978	Total	21,309	1,181	NA	153	°19,974	852	*19,122 *
1979	Total	21,883	1,245	NA .	167	°20,471	808	°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 Total	1,663 20,210	125 * 1,388	19 208	10 93	1,510 18,520	62 762	1,448 17,758
						•		•
1983	January	1,688	125	20	7	1,536	72	1,464
	February	1,488	111	17	7	1,353	64	1,289
	March .	1,552	125 123	18 16	8	1,401	66 60	1,335
	April	1,470 1,467	114	17	8 9	1,323 1,328	62 62	1,261
	May June	1,415	121	19	7	. 1,268	60	1,266 1,208
	July	1,502	128	18	8	1,348	63	1,285
	August	1,555	127	20	8	1,400	- 66	1,334
	September	1,514	123	19	8	1,364	64	1,300
	October	1,591	125	18	8	1,440	68	1,372
	November	1,602	117	19	9	1,457	68	1,389
	December	1,753	119	21	8	1,605	75	1,530
	Total	18,597	1,458	222	95	16,822	790	16,033
1984	January	1,858	119	22	7.	1,709	80	. 1,629
	February	1,621	115	19	6	1,481	70	1,411
	March	1,666	112	21	7	1,526	· 72	1,454
	April	1,642	120	19	7	1,495	70	1,425
	May	1,644	127	20 20	7 8	1,490	70 68	1,420
	June July	1,593 1.649	124 126	19	8	1,442 1,496	70	1,374 1,426
	August	1,628	127	· 19	8	1,475	69	1,426
	September	1,543	121	15	7	1,399	66	1,333
	October	1,635	128	18	8	1,481	70	1,411
	November	R1,643	R124	R16	8	R1,495	70	R1,425
	December	R1,736	R134	R18	8	R1,576	R74	R1,502
	Total	R 19,858	R1,477	R226	89	R18,065	R849	R17,216
1985	January	1,797	139	18	8	1,632	. <i>77</i>	1,555

¹Gas withdrawn from gas and oil wells.
²Gas returned to formations for repressuring, pressure maintenance, and cycling.
³For definitions and further explanations, see Notes on the last two pages of this section.
⁴Equal to gross withdrawals minus volumes used for repressuring, volumes of nonhydrocarbon gases removed, and volumes vented and flared. See Note 2 on the last two pages of this section for further explanation.
³Equal to marketed production (wet) minus extraction loss.
⁴May 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 1983 are final. All other data are preliminary unless otherwise indicated.
Sources: • See the last page of this section.

Sources: • See the last page of this section.

Supply and Disposition of Natural Gas

			Supp		Disposition					
		Total Dry Gas Production	With- drawals from Storage ¹	Supple- mental Gaseous Fuels ²	Imports ²	Total Supply/ Disposition ³	Additions to Storage ¹	Exports ²	Consump- tion ²	Un- accounted for ^s
					ı	Billion cubic fee	t			
1973	Total	121,731	1,533	NA	1,033	24,297	1,974	77	22,049	196
1974	Total	120,713	1,701	NA	959	23,373	1,784	77	21,223	289
1975	Total	119,236	1,760	NA	953	21,949	2,104	73	19,538	235
1976	Total	119,098	1,921	NA	R964	21,983	1,756	65	19,946	216
1977	Total	119,163	1,750	NA	1,011	21,924	2,307	56	19,521	41
1978	Total	119,122	2,158	NA	966	22,245	2,278	53	19,627	287
1979	Total	119,663	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 67	1,524	364	6 5	1,115	39 39
	July	1,463	12 36	9 9	67 61	1,551 1,537	362 342	6	1,145 1,151	39 38
	August	1,431 1,372	20	9	66	1,467	285	5	1,140	37
	September	1,400	62	11	77	1,550	197	5	1,311	37 37
	October 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	R2,164	145	933	R21,000	2,472	52	18,001	475
1983	January	1,464	474	15	112	2,065	26	5	1,975	59
	February	1,289	341	13	95	1,738	39	5	1,642	52
	March	1,335	280	12	86	1,713	63	5	1,591	54
	April	1,261	171	11	74	1,517	88	5	1,373	51
	May	1,266	43	9	61	1,379	205	5	1,118	51
	June	1,208	23	8	59 50	1,298	273	3	974	48
	July	1,285	26	·8	58 56	1,377	287	5 6	1,034	51 53
	August	1,334	37 28	9 9	56 67	1,436 1,404	265 277	4	· 1,112 1,071	53 52
	September	1,300 1,372	42	10	64	1,488	183	4	1,246	52 55
	Oçtober November	1,389	169	12	80 👈	1,650	86	5	1,503	56
	December	1,530	634	17	107	2,288	31	5	2,191	61
	Total	16,033	2,270	132	920	19,354	1,822	55	16,835	⁵ 642
1984	January	1,629	563	17	95	2,304	54	4	2,202	44
	February	1,411	300	13	70	1,794	62	4	1,690	38
	March	1,454	359	14	69	1,896	50	5	1,802	39
	April	1,425	99	11	72	1,607	145	5	1,419	38
	May	1,420	30	10	73	1,533	258	6	1,231	38
	June	1,374	26	9	63	1,472	325	4	1,106	37
	July	1,426	28	9	59 57	1,522	341 313	5	1,138	38 38
	August	1,406 1,333	30 30	9 9	57 58	1,502 1,430	287	5 5	1,146 1,102	36 36
	September		55	10	68	1,544	244	4	1,258	38
	October November	1,411 R1,425	221	R13	83	R1,742	82	4	R1,618	38
	December	R1,502	298	14	R94	R1,908	87	4	R1,777	R40
	Total	R17,216	2,038	R138	R861	R20,254	2,249	55	R17,489	R462
1985	January	1,555	650	17	104	2,326	31	5	2,248	42

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^{*}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.

*For definitions and further explanations, see Notes on the last two pages of this section.

*Data for 1978 through 1982 do not include intransit receipts and deliveries.

*May include unknown quantities of nonhydrocarbon gases.

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

R = Revised data. NA = Not available.

Notes:

*Geographic coverage is the 50 States and the District of Columbia.

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 1983 are final. All other data are preliminary unless otherwise indicated. Sources: • See the last page of this section.

Natural Gas¹ Consumption

Delivered to Consumers

		Lease and Plant Fuel	Pipeline Fuel	Residential	Commercial ²	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	17,704	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	89	57	674	341	606	208	1,829	1,975
	February	79	48	651	335	352	177	1,515	1,642
	March	81	46	507	265	484	208	1,464	1,591
	April	77	40	435	224	394	203	1,256	1,373
	May	77	33	260	141	389	218	1,008	1,118
	June	74	28	170	102	352	248	872	974
	July	78	30	126	93	393	314	926	1,034
	August	81	32	115	96	436	352	999	1,112
	September	79	31	120	98	444	299	961	1,071
	October	8,4	36	189	125	561	251	1,126	1,246
	November	85	44	336	190	634	214	1,374	1,503
	December	93	64	³798	³422	596	218	2,034	2,191
•	Totai	978	490	4,381	2,433	R5,643	2,911	15,367	16,835
1984	January	99	64	³805	³404	615	215	2,039	2,202
	February	_86	49	³580	³291	497	187	1,555	1,690
	March	R87	52	R608	R310	R538	206	R1,663	1,802
	April	87	41	R426	223	R422	220	1,291	1,419
	May	87	36	R264	147	R433	264	1,108	1,231
•	June	84	32	R160	104	R427	299	990	1,106
	July	87	33	124	91	454	349	1,018	1,138
	August	86	33	117	95	465	350	1,027	1,146
	September	81	32	128	95	475	291	989	1,102
	October	86	37	R193	122	R550	270	1,135	1,258
	November	R87	47	R353	200	R686	245	R1,484	R1,618
	December	92	52	576	289	550	217	1,633	1,777
	Total	1,051	508	4,331	2,370	6,112	3,113	15,930	17,489

Includes supplemental gaseous fuels.
Includes deliveries to local, State, and Federal agencies engaged in nonmanufacturing activities.
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 1983 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

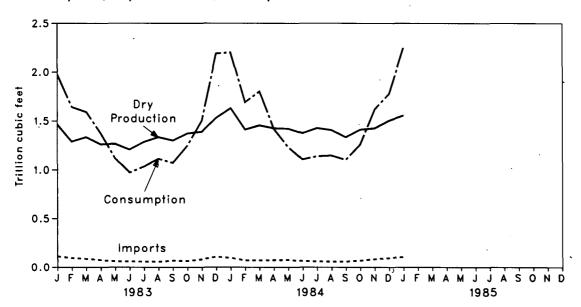
		Natural Gas in Underground Storage at End of Period		from San	Change in Working Gas from Same Period Previous Year		Storage Activity		
		Base Gas	Working Gas	Total ¹	Volume	Percent	Injections	Withdrawals	Net ²
				Volumes in	billion cubic fee	t			
1973	Total	2,864	2,034	4,898	305	17.6	1,974	1,533	441
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 7,149	99 116	3.1 3.6	277 191	20 60	257
	October November	3,785 3,772	3,364 3,309	7,149 7,081	108	3.4	83	163	131 -80
	December	3,772	3,071	6,879	255	9.0	86	289	-204
	Total	3,000	5,071	0,070	200	0.0	2,399	2,094	306
1983	January	3,813	2,644	6,457	462	21.2	24	449	-424
1300	February	3,811	2,356	6,167	569	31.9	36	325	-289
	March	3,812	2,148	5,959	544	33.9	59	266	-207
	April	3,818	2,074	5,893	398	23.8	82	160	-78
	May	3,818	2,222	6,041	188	9.3	191	40	151
	June	3,819	2,454	6,272	85	3.6	255	22	234
	July _.	3,826	2,696	6,522	-8	-0.3	268	25	243
	August	3,823	2,908	6,732	-89	-3.0	247	35	212
	September	3,823	3,141	6,964	-110	-3.4	258	26	232
	October	3,825	3,270	7,095	-94 104	-2.8	171	40	131
	November	3,841	3,175	7,015	-134 -476	-4.1 -15.5	80 29	158 597	-78 567
	December Total	3,847	2,595	6,442	-4/0	-10.5	1,700	2,142	-567 -442
1984	January	3,847	2.091	5,937	-553	-20.9	54	563	-509
	February	3,828	1,876	5,704	-480	-20.4	62	300	-238
	March	3,824	1,572	5,396	-575	-26.8	50	359	-308
	April	3,822	1,620	5,442	-454	-21. 9	145	99	46
	May	3,827	1,843	5,670	-379	-17.1	258	30	227
	June	3,828	2,141	5,969	-313	-12.7	325	26	299
	July	3,829	2,456	6,285	-240	-8.9	341	28	313
	August	3,829	2,739	6,568	-169	-5.8	313	30	283
	September	3,829	2,996	6,825	-144	-4.6	287	30	257
	October	3,837	3,177	7,014	-92 161	-2.8	244	55 224	189
	November	3,849 3,774	3,014 2,877	6,862 6,651	-161 281	-5.1 10.8	82 87	221	-139
	December Total	3,774	2,877	6,651	201	10.8	87 2,249	298 2,038	-211 211
1985	January	3,789	2,242	6,032	152	7.3	31	650	-619
		5,. 55	-,	-,			•		0.0

¹Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1978—6,890; 1979—6,929; 1980—7,434; 1981—7,805; 1982—7,915; 1983—7,985; and 1984—8,043. Current total capacity is 8,043. ²Positive numbers indicate injections are greater than withdrawals. Negative numbers indicate withdrawals are greater than injections. Net injections or withdrawals may not equal the difference between applicable ending stocks. See Note 8 on the last two pages of this section. Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
• Data for 1978 through 1983 are final. All other data are preliminary unless otherwise indicated.

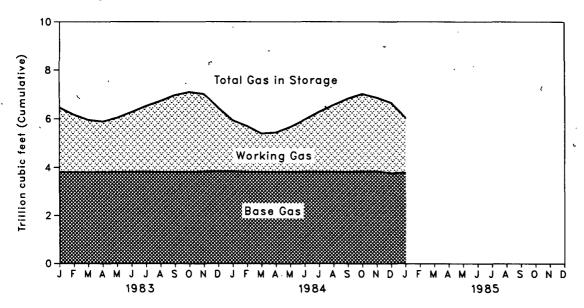
Sources: • See the last page of this section.

Overview

Consumption, Dry Production, and Imports



Gas in Storage at End of Period



Notes and Sources for the Natural Gas Section

Notes

1. Nonhydrocarbon Gases Removed: Annual data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are from the Energy Information Administration (EIA) Natural Gas Annual 1983. These data are not available for periods prior to 1980. For 1983, of the 31 producing States, 20 reported data on nonhydrocarbon gases removed. These 20 States accounted for 56 percent of total 1983 gross withdrawals. In addition, gross withdrawals data from two States, which together accounted for 38 percent of the 1983 total production, did not include all or most of the nonhydrocarbon gases removed on leases. No estimates are made for the two States not reporting nonhydrocarbon gases removed. For further information, see the EIA Natural Gas Monthly.

Monthly data are reported by five States and computed for two States. All monthly data are considered preliminary until after publication of the EIA Natural Gas Annual for that year. For further information on methods of estimating preliminary monthly data, see the EIA Natural Gas Monthly.

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

Production: Annual data. Final annual data are from the EIA Natural Gas Annual 1983.

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.

the EIA Natural Gas Monthly.

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

Final monthly data. The difference between annual production data published in the EIA Natural Gas Annual 1983 and the sum of preliminary monthly data (January-December) is allocated proportionally to the preliminary monthly data.

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

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

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

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

4. Supplemental Gaseous Fuels: Supplemental gaseous fuels are mainly synthetic natural gas, propane-air, and refinery gas. Other gases may also be included such as, coke oven gas, biomass gas, manufactured gas, and air injected for Btu stabilization.

Annual data beginning with 1980 are from the EIA Natural Gas Annual 1983. Unknown quantities of supplemental gaseous fuels are included in consumption data for 1979 and earlier years.

1979 and earlier years.

All monthly data are considered preliminary until after the publication of the EIA *Natural Gas Annual* for that year.

Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a 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 that year.

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

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

- 7. Unaccounted for: The "Unaccounted for" category represents quantities lost; the net result of flow data metered at varying temperature and pressure conditions and converted to a standard temperature and pressure base; metering inaccuracies; differences between billing cycle and calendar period time frames; 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. The increase of 167 billion cubic feet (Bcf) in the "Unaccounted for" category in 1983, as compared to 1982 figures, reflects unusually large differences resulting from the use of the annual billing cycle (nominally December 15, 1982, through December 15, 1983) for consumption data in conjunction with calendar year supply data. Record cold temperatures during the last half of December 1983 resulted in a reported 333-Bcf increase in net withdrawals from underground storage for peak shaving as compared with the same period in 1982, but the effect of this cold weather was only partially reflected in 1983 consumption data. For underground storage data, see Table F2 in the June 1984 Natural Gas Monthly, which was published in August 1984.
- 8. Natural Gas Storage: Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals from the quantity in storage at the end of the previous period. This difference is due to changes in the quantity of native gas included in the base gas and/or losses in base gas due to migration from storage reservoirs.

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

The final monthly and annual storage and withdrawal data for 1980 through 1983 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 (continued)

Sources

Production: 1973 through 1983: Energy Information Administration (EIA), Natural Gas Annual 1983; January 1984 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 1983: EIA, Natural Gas Annual 1983; January 1984 forward: EIA computations

1984 forward: EIA computations.

Withdrawals from and Additions to Storage: 1973 through 1983: EIA, Natural Gas Annual 1983; January 1984 forward: Form FPC-8 and Form EIA-191, "Underground Gas Storage Report."

Supplemental Gaseous Fuels: 1980 through 1983: EIA, Natural Gas Annual 1983; January 1984 forward: EIA com-

Imports and Exports: 1973 through 1983: Form FPC-14, "Imports and Exports of Natural Gas"; January 1984 forward: EIA computations. End-Use Consumption: • All data except electric utility—1973 through 1983: EIA, Natural Gas Annual, 1983; January 1984 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, Form FPC-8, Form EIA-191, and Form 176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Oil and Gas Resource Development

The February 1985 rotary rig count of 2,188 was 9.7 percent less than the February 1984 count of 2,423. The 233 rigs operating offshore during February 1985 were 15.3 percent higher than those working in February 1984.

Total well completions reported for 1984 were 81,979. On a weekly basis, this was 5.4 percent above completions reported for 1983, but 6.3 percent below the record set in 1982. Total reported footage drilled in 1984 was a weekly average of 4.9 percent more than the annual 1983 figure, but a weekly average of 13.7 percent less than the record-level footage reported in 1982. Oil well completions reported for the year 1984 were an all-time high of 41,064. On a weekly basis, this was slightly below the previous record set in 1982, but was 8.3 percent above the oil well completions reported for 1983. Gas well completions reported for 1984 were 15,692, a weekly average of 1.5 percent less than the 1983 gas completions and a weekly average of 18.8 percent less than the record high set in 1982.

The 439 crews engaged in seismic exploration in January 1985 were 8.0 percent fewer than the seismic crews working in January 1984. The decrease was divided proportionally with both land crews and marine vessels 8.0 percent fewer than the comparable crews working in January 1984.

Oil and Gas Resource Development

		Rotary Rigs in Operation		Ex		nd Develop Drilled ²	ment	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	İ	2,798	954	2,132	5,884	28,167
1002	February	4,160	1	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	ł	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	Į	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	1 .	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		2,689 2,641	1,127	1,639	5,455	22,970
	August September	2,156 2,252		3,736	1,080 1,282	1,535 2,016	5,256 7,034	22,634
	October	2,382		2,976	1,202	1,702	7,034 5,899	30,374 24,965
	November	2,572		3,240	1,145	1,990	6,375	26,833
	December	2,780		3,490	1,699	2,209	7,398	31,051
	Average	2,232	Total	37,207	15,628	23,494	76,329	325,760
1984	January	2,666		²3,253	²1,058	²2,004	²6,315	²27,915
	February	2,423	ļ	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
	August September	2,417 2,420		3,968 3,946	1,421 1,332	2,121 2,900	7,510	31,612
	October	2,420 2,492		3,946 3,434	1,332	2,900 2,058	8,178 6,730	32,867 28,065
	November	2,629		3,131	1,071	1,695	5,897	26,065 24,287
	December	2,713		3,718	1,955	1,924	7,597	31,431
	Average	2,428	Total	41,064	15,692	25,223	81,979	348,235
1985	January	2,452		NA	NA	NA	NA	NA
.000	February	2,188		NA	NA	NA NA	NA	NA NA

¹Monthly data are averages of 4- or 5-week reporting periods and are not calendar months.

²Data 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), 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 (4,4,5). differently to more closely represent the actual number of weeks in the calendar months—(5,4,5), (4,4,5), (4,5,4), and (4,4,5).

NA = Not available.

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			
		Мо	nthly average	9		Annual tota	l			
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	678 640						
	March	52 55	597 571	649 626						
	April 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	410 428	449 471						
	June	`43 46	420	483			•			
	July August	49 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 45	444 455	490 500						
	June	45 47	455 482	500 529						
	July August	53	402 470	523	1					
	September	52	472	524	1					
	October	48	449	497						
	November	49	444	493	1					
	December	44	414	466	1					
	Average	49	445	494						
1985	January	46	393	439						

^{&#}x27;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

In January 1985, 68.1 million short tons of coal were produced, slightly less than the 68.2 million short tons produced in January 1984.

Electric utilities consumed 57.0 million short tons of coal in December 1984, 3.5 percent less than they consumed in December 1983. Electric utility coal consumption during 1984 totaled 664.3 million short tons, a daily average increase of 6.0 percent from the 625.2 million short tons consumed in 1983.

Electric utility coal stocks of 179.7 million short tons at the end of December 1984 were 24.1 million short tons (15.5 percent) above the level 1 year earlier.

Imports of coal in December 1984 totaled 134 thousand short tons, 32 thousand short tons more than the amount imported in December 1983. Coal exports in December 1984 totaled 6.5 million short tons, 4.1 percent more than the amount exported during December 1983. Total coal imports during 1984 were 1.2 million short tons, a daily average of 3.2 percent less than in 1983. Exports of coal totaled 81.5 million short tons in 1984, a daily average of 4.5 percent more than the 77.8 million short tons exported during 1983. Coal exports during 1984 were principally to Europe (40.3 percent), Canada (25.1 percent), and Japan (20.0 percent).

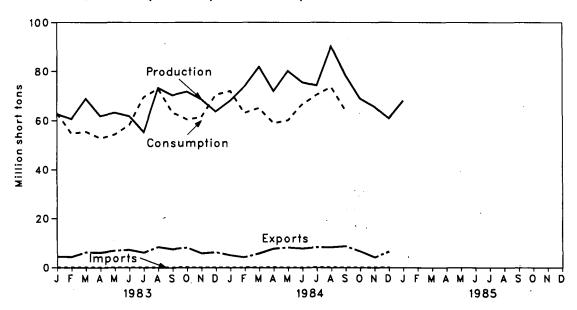
Part 6



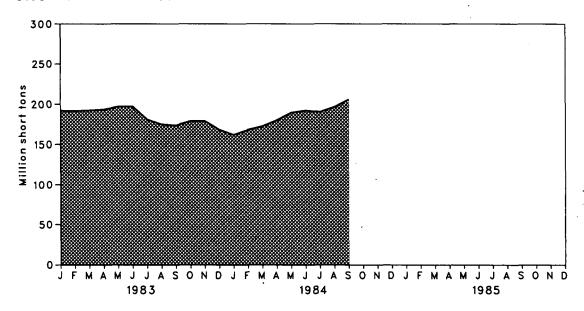
Coal

Overview

Production, Consumption, Imports, and Exports



Stocks at End of Period



Overview

		Production	Consumption	Imports	Exports ¹	Stocks ²
			Thou	usand short tons		
1973	Total	598,568	562,584	127	53,587	104,335
1974	Total	610,023	558,402	2,080	60,661	96,323
1975	Total	654,641	562,641	940	66,309	128,050
1976	Total	684,913	603,790	1,203	60,021	134,438
	Total	697,205	625,291	1,647	54,312	157,098
1977		670,164	625,225	2,953	40,714	145,551
1978	Total	•	680,524	2,059	66,042	181,646
1979	Total	781,134	•	•	91,742	204,028
1980	Total	829,700	702,729	1,194	•	•
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	62,731	63,019	78	4,471	191,902
	February	60,654	54,692	⁻ 71	4,382	191,574
	March	68,896	55,434	120	6,291	192,315
	April	61,837	52,816	144	6,115	193,402
	May	63,210	54,327	102	6,952	196,982
	June	61,797	58,237	133	7,279	197,033
	July	55,213	69,478	87	6,140	181,222
	August	73,291	72,947	115	8,380	175,067
	September	70,312	63,317	97	7,525	173,743
	October	71,754	60,454	190	8,131	179,166
	November	68,684	61,411	32	5,838	179,281
	December	63,713	70,541	102	6,269	168,654
	Total	782,091	736,672	1,271	77,772	
1984	January†	68,154	72,033	81	5,062	162,082
	February†	R73,933	63,096	140	4,251	168,473
	March†	81,864	65,121	55	- 5,813	172,862
	April†	71,939	58,906	148	7,688	180,347
	May†	80,204	60,138	72	8,221	189,685
	June†	75,586	66,634	49	7,828	192,271
	July†	74,299	70,477	193	8,318	190,648
	August†	90,163	73,614	95	8,235	196,897
	September†	78,394	64,131	95	8,710	205,769
	October†	69,003	NA NA	104	6,641	NA
	Novembert	65,695	NA ·	68	4,190	NA
	December†	60,910	NA	134	6,526	NA
	Total†	890,143	NA ·	1,234	81,483	NA
1985	January†	68,097	NA	NA	NA	NA

¹Excludes shipments of anthracite to U.S. Armed Forces overseas (347,000 short tons in 1982, 341,000 short tons in 1983, and 298,000

¹Excludes shipments of anthracite to U.S. Armed Forces overseas (347,000 short tons in 1982, 341,000 short tons, in 1983, and 298,000 short tons in 1984).

²Stocks 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 and stocks held by coal producers and distributors.

†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	3	
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	670 627	63,528
	September	48,414 46,330	2,924 2,757	4,759 5,287	637 660	56,734 55,034
	October November	47,799	2,757 2,693	5,267 5,494	845	55,034 56,031
	December	50,914	2,587	5,494 5,695	1,018	56,831 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 5,050	752 700	63,317
	October November	50,689 51,485	3,307	5,659	799	60,454
	December	51,185 59,117	3,335 3,461	6,046 6,880	845 1,082	61,411
	Total	625,211	37,033	65 ,980	8,448	70,541 736,672
1984	Januaryt	60,224	3,791	6,942	1,076	72,033
	Februaryt	52,257	3,592	6,305	942	63,096
	March†	54,534	3,843	6,072	672	65,121
	April†	47,553	4,180	6,245	928	58,906
	May†	49,507	4,100	5,971	560	60,138
	June†	56,923	3,564	5,704	443	66,634
	July†	60,359	3,639	5,786	693	70,477
	August†	63,396	3,620	5,943	655	73,614
	Septembert	53,991	3,557	5,714	869	64,131
	October†	54,407	NA	NA	NA	NA
	Novembert	54,141 57,021	NA NA	NA NA	NA NA	NA NA
	Decembert	57,021	NA	NA	NA	'NA

NA

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Total†

664,313

NΑ

NA

NA

¹See 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

				Indu	strial	
			Electric Utilities	Coke Plants	Other Industrial	Total
		• .		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
1502	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	1.	175,194	5,800	9,316	190,310
	September		175,225	5,434 5,434	9,308	189,967
	October		180,571	5,171 4,908	9,365 9,424	195,107 196,700
	November December		182,368 181,132	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 3,842	8,345 8,518	175,067 173,743
	September October		161,384 166,574	3,642 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	Januarvt	•	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	7,171	8,579	180,347
	May†		172,150	8,193	9,342	189,685
	June†		172,949	9,217	10,105	192,271
	July†	•	169,737	9,658	11,253	190,648
	August†		174,397	10,099	12,401	196,897
	Septembert	•	181,678 183,149	10,542 NA	13,549 NA	205,769 NA
	October† November†		180,631	NA NA	NA NA	NA NA
	Decembert	•	179,719	NA NA	NA NA	NA NA
	Decelling!		,,,,,	1471		

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

Notes and Sources for the Coal Section

Notes

1. Production: Preliminary monthly estimates of national coal production are the sum of weekly estimates developed by the Energy Information Administration (EIA) and published in the Weekly Coal Production report. When a week extends into a new month, production is allocated on a daily basis and added to the appropriate month. Weekly estimates are based on Association of American Railroads (AAR) data showing the number of railcars loaded with coal during the week by Class I and certain other railroads. This number is converted into tons of coal by EIA using the number is converted into tons of coal by EIA using the average number of tons of coal per railcar loaded reported in the most recent Quarterly Freight Commodity Statistics from the Interstate Commerce Commission (ICC). If an average coal tonnage per railcar loaded is not available for a specific railroad, the national average is used. To derive the estimate of total weekly production, the total rail tonnage for the week is divided by "the ratio of quarterly production shipped by rail and total quarterly production. Data for the corresponding quarter of previous years are used to derive this factor because data for the current quarter are not yet available. This method also ensures that quarter are not yet available. This method also ensures that the seasonal variations in production are preserved.

When preliminary quarterly data become available, the monthly and weekly estimates are adjusted to conform to the quarterly figure. The adjustment procedure uses Statelevel production data and is explained in the *Quarterly Coal Report*. Initial estimates of annual production published in Heport. Initial estimates of annual production published in January of the following year are based on preliminary production data covering the first 9 months (three quarters) and weekly/monthly estimates for the fourth quarter. The fourth quarter estimates may or may not be revised when preliminary data become available in March of the following year, depending on the magnitude of the difference between the optimizary data in any event. tween the estimates and the preliminary data. In any event, all quarterly, monthly, and weekly production figures are adjusted to conform to the final annual production data published in the *Monthly Energy Review* in the fall of the

following year.

2. Consumption: Both monthly and quarterly consumption for electric utility plants are taken directly from reported data. Prior to 1980, monthly consumption at coke plants was also taken directly from reported data. Since that time, it has been estimated by proportioning reported quarterly nas been estimated by proportioning reported quarterly data using the ratios of monthly to quarterly consumption in 1979, the last year in which monthly data were reported. Quarterly consumption is taken directly from reported data. Prior to 1978, monthly consumption for the other industrial sector (i.e., all industrial users minus coke plants) was derived by using reported data to modify baseline consumption figures from the most recent Rureau of the Consumption figures.

tion figures from the most recent Bureau of the Census Annual Survey of Manufactures or Census of Manufactures. Annual Survey of Manufactures of Census of Manufactures. For 1978 and subsequent years, monthly figures were derived from data reported on Forms EIA-3 and EIA-6. Beginning in 1980, monthly figures have been estimated by proportioning derived quarterly data using the ratios of monthly to quarterly consumption in 1979, the last year in which monthly data were reported on Form EIA-3. Quarterly consumption for the other industrial sector is derived from reported data by adding beginning stocks at manufacturing reported data by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts are taken as the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, mining, and construction consumption are included where appropriate.

Prior to 1980, monthly consumption for the residential and commercial sector was derived by using reported data to modify baseline figures developed by the Bureau of Mines. Since that time, it has been estimated by proportioning reported quarterly data using the ratios of monthly to quarterly consumption in 1979, the last year in which monthly data were reported on Form EIA-2. During 1981 and 1982, the estimates were also modified to reflect air temperature degree-days. Quarterly consumption is taken directly from reported data and is defined as distribution to the residential and commercial sector as reported by coal producers and distributors on Form FIA-6. ducers and distributors on Form EIA-6.

3. Stocks: Both monthly and quarterly stocks at electric utility plants are taken directly from reported data. Prior to 1980, monthly stocks at coke plants were also taken directly from reported data. Since that time, they have been estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Quarterly stocks are taken directly from data reported on Form EIA-5.

Prior to 1978, stocks for the other industrial sector were derived by using reported data to modify baseline figures from a one-time Bureau of Mines survey of consumers. During the period 1978 through 1982, they were derived by judgmentally proportioning reported quarterly data based on representative seasonal patterns of supply and demand. Since that time, they have been estimated as indicated above for coke plants. Quarterly stocks are taken directly from data reported on Form EIA-3 and therefore include only manufacturing industries: data for agriculture, forestry, fishing, mining, and construction stocks are not available. Monthly and quarterly stock data are not available for the residential and commercial sector.

4. Imports and Exports: All coal import and export figures are taken directly from data reported monthly by the Bureau of the Census.

Additional information concerning coal production, consumption, and stock data and estimation procedures may be obtained in EIA's *Quarterly Coal Report*, DOE/EIA-0121.

Sources

Production: 1973 through September 1977: Bureau of Mines, *Minerals Yearbook* and *Mineral Industry Surveys*; October 1977 forward: Energy Information Administration (EIA), Weekly Coal Production.

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

Surveys;

• Electric Utilities—October 1977 forward: EIA, Form EIA-759 (formerly FPC Form 4), "Monthly Power Plant Report."

• Coke Plants—October 1977 through December 1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals—Monthly/Annual"; January 1981 forward: EIA, Form EIA-5/5A, "Coke Plant Report—Quarterly/Annual Supplement."

• Other Industrial—October 1977 through December 1979: EIA, Form EIA-3, "Monthly Fuel Consumption Report—Manufacturing Plants"; January 1980 forward: EIA, Form EIA-3, "Quarterly Fuel Consumption Report—Manufacturing Plants" and Form EIA-6, "Coal Distribution Report."

• Residential and Commercial—October 1977 through December 1979: EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers and Upper Lake Docks"; January 1980 forward: EIA, Form EIA-6, "Coal Distribution Report."

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

ment of Commerce, Monthly Reports IM-145 (Imports) and EM-522 (Exports).

During December 1984, electric utilities in the United States generated 200.9 billion kilowatthours of electricity, 5.4 percent below the December 1983 generation level. Coal-fired generation totaled 114.6 billion kilowatthours, 2.2 percent below the December 1983 level. Nuclear generation totaled 30.9 billion kilowatthours, 17.1 percent above the December 1983 level. Hydroelectric generation was 25.8 billion kilowatthours in December 1984, 18.5 percent below the December 1983 level. Natural gas-fired generation was 20.9 billion kilowatthours, 1.4 percent above the level 1 year earlier. Petroleum-fired generation totaled 7.9 billion kilowatthours, 50.6 percent below the December 1983 level.

During 1984, electric utilities generated 2,413 billion kilowatthours of electricity, an average hourly increase of 4.2 percent from the 1983 generation level. Coal-fired generation during 1984 totaled 1,341 billion kilowatthours, an hourly average of 6.2 percent above the 1983 record-high level. Nuclear generation totaled 325 billion kilowatthours, an hourly average of 10.4 percent above the previous high level reached in 1983. Hydroelectric generation in 1984 was 321 billion kilowatthours, an average hourly decrease of 3.6 percent from the 1983 level. Natural gas-fired generation was 297 billion kilowatthours, an hourly average of 8.2 percent above the level of the previous year. Petroleum-fired generation totaled 120 billion kilowatthours in 1984, 17.2 percent, on an hourly basis, below the 1983 level. Electricity generated from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources totaled 8.6 billion kilowatthours during 1984, an hourly average increase of 32.8 percent from the level in 1983.

Sales of electricity to all ultimate consumers in the United States in December 1984 were 186.9 billion kilowatthours, 0.8 percent above December 1983 sales. Sales to residential consumers during December 1984 were 66.9 billion kilowatthours, 0.9 percent above the level of sales during the same month in 1983. Commercial sales were 46.5 billion kilowatthours, 3.0 percent more than the amount sold to commercial consumers in December 1983. Sales to industrial consumers totaled 66.6 billion kilowatthours in December 1984, 0.9

percent less than the 1983 figure. In December 1984, other sales totaled 6.9 billion kilowatthours, 2.1 percent above the December 1983 level.

Sales of electricity to all ultimate consumers during 1984 were 2,282 billion kilowatthours, an hourly average of 5.8 percent above 1983 sales. Sales to residential consumers were 780 billion kilowatthours, an average hourly increase of 3.6 percent from the level of residential sales during 1983. Commercial sales were 579 billion kilowatthours, an hourly average of 6.1 percent more than the amount sold to commercial consumers during 1983. Sales to industrial consumers totaled 842 billion kilowatthours in 1984, 8.2 percent, on an hourly basis, more than the 1983 industrial sales. In 1984, other sales totaled 82 billion kilowatthours, an hourly average of 2.0 percent above the 1983 level.

Electric utility petroleum consumption (excluding petroleum coke) during December 1984 was 13.6 million barrels, 50.3 percent below the December 1983 level. Coal consumption during December 1984 was 57.0 million short tons, 3.5 percent below the December 1983 rate. During December 1984, electric utilities consumed 217.3 billion cubic feet of natural gas, 0.4 percent below the December 1983 consumption level.

Electric utility petroleum consumption (excluding petroleum coke) in 1984 totaled 205 million barrels, a daily average of 16.9 percent below the 1983 level. Coal consumption during 1984 was 664 million short tons, a daily average of 6.0 percent above the 1983 rate. During 1984, electric utilities consumed 3,113 billion cubic feet of natural gas, a daily average of 6.6 percent above the 1983 consumption level.

On December 31, 1984, utility stocks of anthracite, bituminous coal, and lignite totaled 179.7 million short tons. Stockpiles were 15.5 percent above the level of December 31, 1983. Petroleum stocks (excluding petroleum coke) on December 31, 1984, totaled 87.5 million barrels, 2.1 percent below the level on the same date in 1983.

Part 7

Electric Utilities

Net Electricity Generation by Primary Energy Source

		Coal	Petroleum¹	Natural Gas²	Nuclear Electric Power	Hydro- electric Power	Other ³	Total
				Mil	llion kilowatthou	ırs		
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
		113,124	20,674	22,621	25,678	26,896	411	
1982	January February	96,906	15,217	20.920	20,188	26,690	380	209,403 180,299
	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	356 460	174,392
	June	101,512	11,139	23,091	24,152	30,692	462 565	191,048
	July	121,560 129,313	14,710 14,731	29,615 33,147	25,602 26,201	28,113 25,828	565 738	220,165 229.957
	August 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
	July	121,094	10,398	33,325	27,764	27,499	644	220,724
	August	127,744 108,792	12,837 7,713	33,290 27,839	29,322 28,884	25,137 20,909	790 726	229,119 194,864
	September October	110,792	7,713 7.874	27,039 25,783	26,664 24,774	20,90 9 20,886	819	194,864
	November	109,107	9,237	23,735	24,774 24,575	20,666 22,245	827	189,725
	December	114,550	7,931	20,863	30,872	25,815	892	200,923
	Total	1,341,253	119,963	297,329	325,177	321,052	8,599	2,413,372

Includes fuel oil No. 2, No. 4, No. 5, No. 6, crude oil, kerosene, and petroleum coke.
Includes supplemental gaseous fuels.
Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

Electricity Sales¹

		Residential	Commercial	Industriai	Other ²	Total
			Milli	on kilowatthour	s	
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
		606,452	425,094	754,069	69,631	1,855,246
1976	Total	•	•	•	•	
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	6,492	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	R63,719	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	R175,003
	June	59,933	49,410	73,014	6,714	189,071
	July	R71,020	R53,922	R71,843	R7,006	R203,791
	August	73,138	53,603	74,534	7,089	208,364
	September	67,456	52,854	71,275	R6,780	R198,365
	October	55,965	48,061	70,945	6,732	181,702
	November	R58,660	46,810	70,725	7,009	R183,204
	Decembert	66,915	46,485	66,607	6,910	186,917
	Total†	779,774	578,654	841,800	82,084	2,282,311

¹Electricity sales to all ultimate consumers.

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

†Initial estimates. R=Revised data.

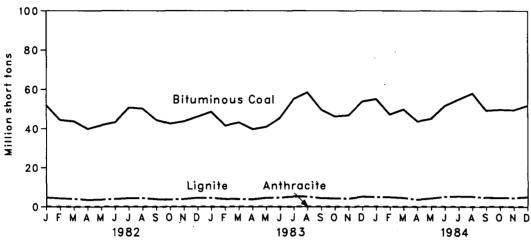
Notes: • Geographic coverage is the 50 States and the District of Columbia.

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

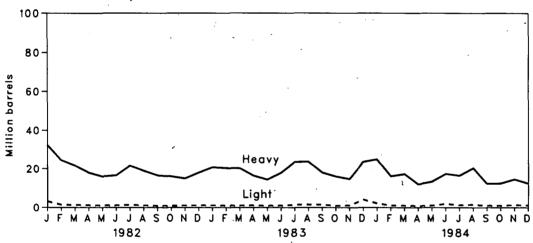
Sources: • Energy Information Administration (EIA), 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 through December 1982: FERC Form 5, "Electric Utility Company Monthly Statement"; January 1983 forward: Form EIA 826, "Electric Utility Company Monthly Statement."

Primary Energy Consumed to Produce Electricity

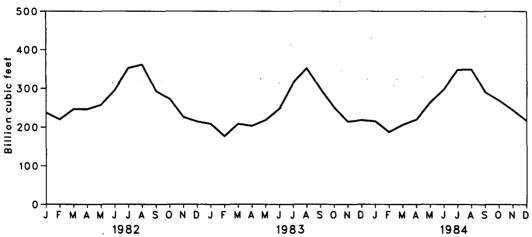
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



Primary Energy Consumed to Produce Electricity

			Coal			Petroleum			Gas	
		Anthracite	Bituminous Coal	Lignite	Total	Heavy ²	Light	Total Liquids	Petroleum Coke	
			Thousand sh	ort tons		The	ousand barr	els	Thousand short tons	Million cubic feet
1973	Total	1,443	376,975	10,794	389,212	(4)	(4)	560,248	507	3,660,172
1974	Total	1,498	378,643	11,670	391,811	(4)	(4)	536,274	625	3,443,428
1975	Total	1,480	388,523	15,960	405,962	(1)	(')	506,128	70	3,157,669
1976	Total	1,350	425,205	21,817	448,371	(4)	(*)	555,920	68	3,080,868
1977	Total	1,425	451,051	24,650	477,126	(4)	(*)	623,705	98	3,191,200
1978	Total	1,064	448,763	31,407	481,235	(4)	(4)	635,839	398	3,188,363
1979	Total	1,046	488,129	37,876	527,051	(4)	(4)	523,297	268	3,490,523
1980	Total	951	526,680	41,642	569,274	391,163	29,051	420,214	179	3,681,595
1981	Total	1,221	550,784	44,792	596,797	329,798	21,313	351,111	139	3,640,154
1982	January	89	52,014	4,723	56,825	32,269	3,131	35,399	10	237,675
1902	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 55,000	4,690 5.210	50,338	17,892	1,020 1,433	18,912 24,815	23 25	247,825
	July	89 92	55,082 58,475	5,219 5,200	60,390 63,767	23,383 23,622	1,433	25,165	25 24	314,357 352,031
	August	92 86	49,745	4,381	54,212	18,021	1,507	19,529	25	298,517
	September 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
	July	100	54,928	5,331	60,359	16,453	1,259	17,712	22	348,840
	August	97	58,026	5,273	63,396	20,337	1,523	21,860	20	349,875
	September	81	49,235	4,675	53,991	12,235	996	13,231	21	290,608
	October	83	49,746 40,507	4,578	54,407 54,141	12,450	965	13,415	19 17	269,630
	November	91 92	49,507 51,970	4,543	54,141 57,021	14,543	1,347	15,890 13,645	17 20	244,767
	December	93	51,879 606.254	5,050 56,000	57,021 664,313	12,499	1,146	204,562	252	217,328 3,112,729
	Total	1,070	606,254	56,990	004, 313	189,297	15,265	204,302	232	3,112,723

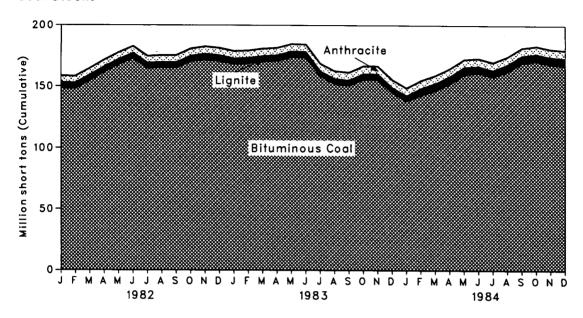
Natural

Includes supplemental gaseous fuels.
Heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils.
Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.
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.

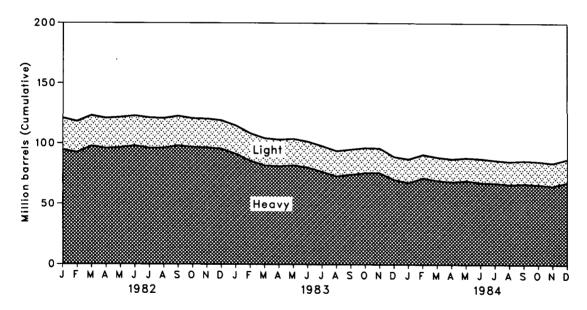
Notes: • Geographic coverage is the 50 States and the District of Columbia.
• Totals may not equal sum of components due to independent rounding.
Sources: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; October 1977 through 1981: Federal Energy Regulatory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

Coal and Petroleum Stocks at End of Period

Coal Stocks



Petroleum Stocks



Coal and Petroleum Stocks at End of Period

			Co	al		Petroleum				
		Anthracite	Bituminous Coal	Lignite	Total	Heavy¹	Light ²	Total Liquids	Petroleum Coke	
			Thousand sh	nort tons		The	ousand barre	s	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)	(a)	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 4,305	158,136 164.518	92,622 97,706	25,418 25,136	118,040 122,842	40 43	
	March	5,488 5,542	154,724 161,720	4,128	171,390	95,984	24,636	120,620	42	
	April May	5,5 6 9	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 50	
	July	6,299 6,380	158,701 152,140	3,566 4,038	168,566 162,557	76,881 73,266	21,101 20,763	97,982 94,029	50 45	
	August 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	lonuoni	6,500	138,346	3,877	148,723	68,049	19,390	87,439	43	
1964	January 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	
	July	6,530	158,324	4,883	169,737	67,754	18,771	86,525	50	
	August	6,583	162,457	5,358	174,397	66,725	18,760	85,485	47	
	September	6,628	169,514	5,536	181,678	67,247	18,905	86,151	49	
	October	6,674	170,923	5,552 5,637	183,149	66,617	18,963	85,580	49 43	
	November	6,681 6,710	168,323 167,110	5,627 5,899	180,631 179,719	65,477 68,404	18,847 19,122	84,324 87,527	43 50	
	December	0,710	107,110	5,033	110,110	00,404	13,122	01,521	30	

Petroleum

¹Heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils.
²Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.
³Prior to 1980, petroleum stock data were not disaggregated by type of fuel. Disaggregation by prime mover type is provided in the last table of this section.

table of this section.

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

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

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

Petroleum Consumption and Stocks by Prime Mover Type

		Petr	Petroleum Consumption			Petroleum Stocks at End of Period			
		Steam Plants	GT/IC¹	Total Liquids	Steam Plants	GT/IC1	Total Liquids		
				Thousar	nd barrels		•		
1973	Total	513,190	47,058	560,248	79,121	10,095	89,216		
1974	Total	483,146	53,128	536,274	97,718	15,199	112,917		
1975	Total	467,221	38,907	506,128	108,825	16,432	125,257		
1976	Total	514,077	41,843	555,920	106,993	14,703	121,696		
1977	Total	574,869	48,837	623,705	124,750	19,281	144,031		
1978	Total	588,319	47,520	635,839	102,402	16,386	118,788		
	Total	492,606	30,691	523,297	111,121	20,301	131,422		
1979		•	18,351	420,214	117,227	18,147	135,374		
1980	Total	401,863	•	•	•	-			
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 78.385	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		
	July	17,085	627	17,712	75,667	10,858	86,525 95,495		
	August	20,957	903 436	21,860	74,681 75,457	10,804 10,695	85,485 86,151		
	September	12,795 13,019	396	13,231 13,415	75,457 74,805	10,695	85,580		
	October November	13,019 15,198	692	15,890	74,605	10,774	84,324		
	December	13,247	398	13,645	76,700 76,734	10,792	87,527		
	Total	197,130	7,432	204,562	. 0,. 0 .	. 5,7 0	,		
	, otal	137,130	.,702	207,002					

¹GT/IC=Gas turbine and internal combustion plants.

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

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

Sources: • ₁1973 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."

In December 1984, U.S. nuclear power plants generated a total of 30.9 billion net kilowatthours of electricity (kWhe), at an average capacity factor of 59.6 percent. This generation represents a 17.1-percent increase compared to December 1983 generation. Nuclear power supplied 15.4 percent of the electricity distributed in December 1984, compared to 12.4 percent in December 1983.

On an hourly basis, the total 1984 nuclear generation of 325.2 billion net kWhe represents a 10.4-percent increase from the 1983 generation of 293.7 billion net kWhe. Nuclear power supplied 13.5 percent of the electricity distributed in 1984, compared to 12.7 in 1983. The monthly capacity factor for nuclear power averaged 56.0 percent in 1984, compared to 54.8 percent in 1983.

On December 6, Catawba-1, a 1,145-netmegawatt-electric (MWe) pressurized-water reactor (PWR) operated by Duke Power Company, was authorized by the Nuclear Regulatory Commission (NRC) to begin low-power testing. Previously, this unit had been authorized only to load fuel and conduct pre-critical testing. On December 7, Shoreham, an 854net-MWe PWR operated by Long Island Lighting Company, received a restricted low-power license authorizing fuel loading and cold criticality testing. On December 13, WNP-2, a 1,103-net-MWe boiling-water reactor operated by Washington Power Supply System, produced it's first commercial electricity. WNP-2 attained criticality in May 1984. On December, 19. Waterford-3, a 1,151-net-MWe PWR operated by Louisiana Power and Light Company, received a low-power license. On December 31, Palo Verde-1, a 1,304-net-MWe PWR operated by Arizona Public Service Company, received a low-power license.

There were 86 operable U.S. nuclear power reactors as of December 31, 1984, with a collective net generating capacity of 69.5 thousand MWe. This compares to 80 reactors on December 31, 1983, with a net generating capacity of 62.8 thousand MWe, and represents a 10.7-percent gain in operating capacity during 1984. Of the 86 operable reactors, 4 units were in power ascension (Callaway-1, Canvon-1. Grand Gulf-1. Susquehanna-2), and 19 units generated no electricity or operated substantially below capacity in December (Arkansas Nuclear-1, Beaver Valley, Browns Ferry-2, Cooper, Davis-Besse, Dresden-2, Fort St. Vrain, Hatch-1, McGuire-1, Monticello, Oconee-1, Peach Bottom-2. Pilgrim. Robinson-2. Salem-2, San Onofre-2, Sequoyah-2, Surry-1, Susquehanna-2, and Three Mile Island-1). Five units had licenses from the NRC authorizing fuel-loading and low-power testing (Byron-1, Catawba-1, Limerick-1, Palo Verde-1, and Waterford-3), and one unit (Shoreham) was authorized to load fuel and conduct cold criticality testing.

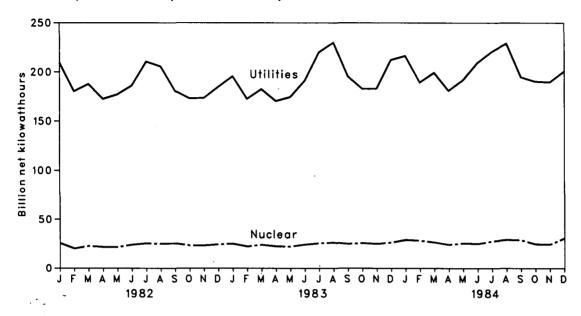
As of December 31, 1984, there were 132 domestic nuclear power plants in all stages of planning, construction, and operation, with an aggregate design capacity of 123 million net MWe.



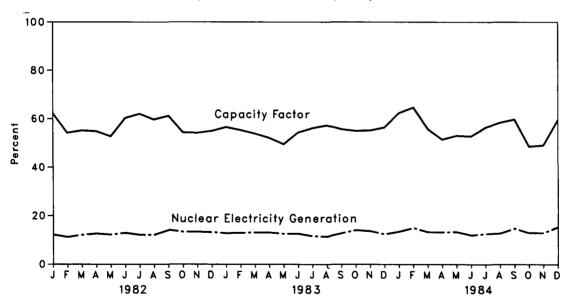


Nuclear Power Plant Operations

Electricity Generated by Utilities and by Nuclear Power Plants



Nuclear Portion of Electricity Generation and Capacity Factor



Nuclear Power Plant Operations

		Operable Reactors¹²	Nuclear-Based Electricity Generation	Nuclear Portion of Domestic Electricity Generation	Maximum Dependable Capacity of Operable Reactors ^{1,3}	Capacity Factor
			Million net kilowatthours	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 70	24,986	12.1	56.293	59.7
	September	76 75	25,391	14.1	57.600 57.245	61.2
	October	75 77	23,248 23,235	13.4 13.4	57.345 59.531	54.4 54.2
	November	77 77	23,235 24,376	13.4	59.552	54.2 55.0
	December 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	12.6	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	11.4	61.440	57.3
	September	80	25,007	12.8	62.227	55.8
	October	80	25,797	14.1	62.876	55.1
	November December	80 80	25,010 26,361	13.7 12.4	62.809 62.809	55.3 56.5
	Year	80	293,677	12.7	62.809	56.5 54.8
1984	January	80	29,135	13.5	62.772	62.4
1304	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
	July	83	27,764	12.6	66.091	56.5
	August	84	29,322	12.8	67.341	58.5
	September	84	28,884	14.8	67.066	59.8
	October	85	. 24,774	13.0	68.497	48.6
	November	86	24,575	13.0	69.534	49.1
	December	86	30,872	15.4	†69.522	†59. 6
	Year	86	325,177	13.5	†69.522	†56.0

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

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

³When possible, net 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.

⁴For an explanation of the method of calculating the capacity factor, see Note 4 on the last page of this section.

⁴Preliminary data.

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

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

Status of Nuclear Reactor Units¹

			Licensed for Operation		Construction Permits		•		Total Design
		Operable ²	In Startup ³	Granted	Pending	On Order	Announced	Total	Capacity•
									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	Ō	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	O	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 75	3	64	3	2 2	0 0	148	138
	October	75	3	64 60	3 3	2	0	147	138
	November December	77 77	2 2	60 60	3	2	0	144 144	135 135
1983	January	77	2	60	3	2	0	144	135
1900	February	77	2	60	3	2	ŏ	144	135
	March	77	3	59	3	2	Ō	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	Ō	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	51	0	2	0	136	128
	February	80	3	51	0	2	0	136	128
	March	81	3	50	0	2	0	136	128
	April	82	3	49 40	0	2	0	136	128
	May	82	3 3	49 48	0 0	2 2	0 0	136 136	128 128
	June	83 83	3	48 48	0	2	0	136	128 128
	July	83 84	3 2	46 44	. 0	2	0	132	123
	August September	84	2	44	ő	2	Ö	132	123
	October	85	3	42	ŏ	2	ŏ	132	123
	November	86	2	42	ŏ	2	ŏ	132	123
	December	86	6	38	Ō	2	Ō	132	123

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

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

³See Note 2 on the last page of this section for the definition.

⁴Net design electrical rating (DER) is used because many of the units 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), Amendment) by the Nuclear Hegulatory Commission (NHC), 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, were included prior to retirement from conjugate on October 1. 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 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 officially retired in August 1984; 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 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 power plants 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 Re-

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 Reacters"

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 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

Total Design Capacity: Nuclear Regulatory Commission report NUREG-0020, "Licensed Operating Reactors" and Nuclear Regulatory Commission Report NUREG-0871, "Summary Information Report."

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Price

Crude Oil

The average price of domestic crude oil purchased at the wellhead was \$25.03 per barrel in December 1984. This was 1.6 percent below the previous month's level and 3.3 percent below the level in December 1983.

During December 1984, the composite refiner acquisition cost of crude oil was \$27.97 per barrel, 1.2 percent below the previous month's average of \$28.30. The cost of imported crude oil decreased \$0.72 per barrel from the November 1984 level to \$28.02 per barrel in December. This was 4.4 percent below the December 1983 average. The cost of domestic crude oil in December 1984 was \$27.95, a decrease of \$0.15 from the November 1984 average.

Motor Gasoline

The national city average retail price of leaded regular gasoline at all types of stations was \$1.06 per gallon in January 1985, 4.4 percent lower than the price in December 1984. The price of unleaded regular gasoline at all types of stations was \$1.15 per gallon in January, 3.8 percent lower than the price in the previous month. The price of unleaded premium gasoline averaged \$1.30 per gallon in January, 3.7 percent lower than during December 1984.

Residual Fuel Oil

The average price, excluding taxes, of residual fuel oil sold to end users (utilities, industry, and other ultimate consumers) in December 1984 was \$0.68 per gallon, 0.3 percent below the previous month's price but 0.7 percent above the December 1983 average. The average price, excluding taxes, of residual fuel oil sold for resale (to other-than-ultimate consumers) in December 1984 was \$0.65 per gallon, unchanged from the November 1984 average but 3.7 percent above the December 1983 average.

Aviation Fuel

The average price, excluding taxes, of aviation gasoline sold to end users in December 1984 was \$1.22 per gallon, 2.2 percent above

the price in the previous month but 2.0 percent below the price in December 1983. The average price, excluding taxes, of kerosenetype jet fuel sold to end users in December 1984 was \$0.82 per gallon, down 0.2 percent from the previous month's price and down 3.9 percent from the price 1 year earlier.

No. 2 Distillate Fuel Oil

The national average price of heating oil sold to residential customers in December 1984 was \$1.05 per gallon. This was 0.5 percent below the price in November 1984 and 1.8 percent below the December 1983 price. The average price for resale was \$0.77 per gallon in December 1984, 4.5 percent below the price in December 1983.

Natural Gas

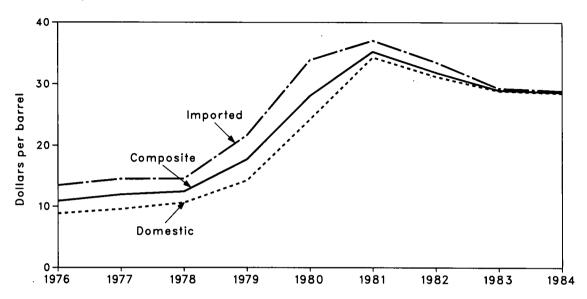
In December 1984, the average wellhead price of marketed natural gas production was \$2.64 per thousand cubic feet (Mcf), the same as in November 1984 but \$0.03 per Mcf (1.1 percent) higher than the December 1983 price. The average price of natural gas delivered to electric utility plants was \$3.69 per Mcf in November 1984, \$0.05 per Mcf less than the October 1984 price but \$0.16 per Mcf (4.5 percent) above the November 1983 price. The average price of natural gas used by residential consumers in January 1985 was \$6.19 per Mcf, \$0.10 per Mcf more than in December 1984 and \$0.21 per Mcf (3.5 percent) more than the January 1984 price.

Electricity

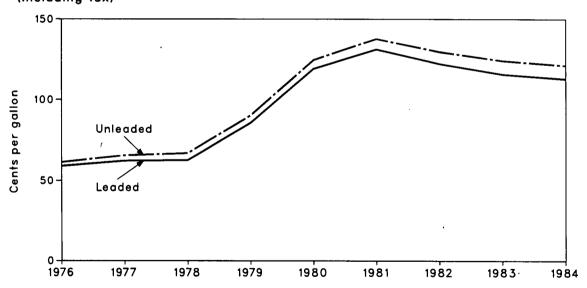
The average retail price of electricity sold by selected privately owned utilities to residential consumers in December 1984 was 7.33 cents per kilowatthour (kWh), a decrease of 3.7 percent from the November 1984 price but 5.2 percent above the December 1983 price. The average price of electricity sold to commercial consumers was 7.28 cents per kWh in December 1984, a 1.9-percent decrease from the previous month's price, but up 5.4 percent from the December 1983 price. The average electricity price to industrial users during December 1984 was 5.07 cents per kWh, slightly more than in the previous month and 5.4 percent more than during December 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 FOB Cost of Crude	Average Landed Cost of Crude	Refiner Ac	quisition Cost of	Crude Oil
		Average Wellhead Price ¹	Oil Imports ²	Oil Imports ³	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	-	12.64	20.19	21.65	14.27	21.67	17.72
	Average	21.59	32.27	33.95	24.23	33.89	28.07
1980	Average	- : :		36.52	34.33	37.05	35.24
1981	Average	31.77	35.10	30.52	34.33	37.05	
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 28.58	28.76	28.75 28.88
	August	26.03	27.89	29.22 29.24	28.69	29.50	28.97
	September	26.08	27.88 27.84	29.08	28.88	29.54 29.67	29.14
	October	26.04 26.09	27.75	28.93	28.76	29.09	28.85
	November	25.88	27.75 27.50	28.58	28.62	29.30	28.83
	December	26.19	27.73	28.93	28.87	29.30	28.99
	Average	20.19		20.93			
1984	January	25.93	27.56	28.49	28.62	28.80	28.67
	February	26.06	27.78	28.89	28.76	28.91	28.81
	March	26.05	27.70	28.69	28.75	28.95	28.81
	April	25.93	27.84	28.91	28.63	29.11	28.77
	May	26.00	27.87	28.94	28.65	29.26	28.83
	June	26.09	27.78	28.89	28.58	29.19	28.77
	July	26.11	27.19	28.32	28.70	29.00	28.79
	August	26.02	27.29	28.20	28.59	28.92	28.69
	September	25.97	27.14	28.14	28.56	28.70	28.60
	October	25.92	27.15	28.18	28.46	28.79	28.56
	November	25.44	R26.91	R27.88	28.10	28.74	28.30
	December	†25.03	†26.76	†27.65	27.95	28.02	27.97
	Average	†25.87	NA	NA	28.53	28.88	28.63

^{&#}x27;See Note 1 in the Notes and Sources for this section.

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

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

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

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

Note: • Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Possessions.

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

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

Price FOB Cost of Crude Oil Imports from Selected Countries¹

		Algeria	Indonesia	Iran	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela
					Dollars ;	per barrel			
1976	Average	13.05	12.76	11.61	NA	13.08	11.69	NA	11.32
1977	Average	14.36	13.57	12.67	13.42	14.44	12.37	NA	12.68
1978	Average	14.10	13.64	12.65	13.24	14.04	12.70	13.82	12.45
1979	Average	20.65	19.35	23.71	20.29	21.80	17.63	21,20	17.37
1980	Average	36.57	32.37	(²)	31.11	35.82	28.53	34.58	24.78
1981	Average	39.09	35.93	(²)	33.13	38.53	32.48	36.08	28.86
1982	January	36.96	35.53	(²)	29.67	36.23	33.40	36.20	29.07
1902	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	ŵ	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	28.98	29.44	W	26.36	29.67	27.43	29.93	24.07
	June	28.52	29.35	NA	26.58	29.34	W	29.67	24.23
	July	27.43	29.21	W	26.62	29.22	W	28.91	24.37
	August	26.97	W	W	26.71	29.02	W	28.13	23.91
	September	26.90	28.83	NA	26.34	29.24	27.99	27.99	24.57
	October	27.42	28.93	NA	26.44	28.40	W	28.50	24.43
	November	26.50	R28.68	NA	26.53	R28.32	NA	R27.61	24.24
	December†	25.13	W	NA	26.55	27.96	NA	27.85	24.32

¹The Free on Board (FOB) cost excludes all costs related to insurance and transportation. See Note 2 in the Notes and Sources for this

^{*}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 Countries¹

		Algeria	Canada	Indonesia	Iran	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela
					D	ollars per ba	rrel			
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
	•	21.90	20.43	20.69	25.02	20.86	22.96	19.15	22.16	18.18
1979	Average		30.47	33.92	(²)	31.80	37.05	30.02	35.88	25.86
1980	Average	37.90		33.92 37.57		31.60	37.05 39.70	34.19	35.66 37.24	29.87
1981	Average	40.49	32.16		(2)					
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	29.96	27.12	30.80	W	26.92	30.96	28.95	30.75	24.93
	June	29.62	26.00	31.21	NA	27.24	31.05	29.90	30.43	25.29
	July	28.63	27.16	30.26	W	26.98	30.07	W	29.54	25.24
	August	28.16	26.95	30.59	W	26.99	29.99	W	28.93	24.95
	September	27.94	27.03	30.05	W	26.66	30.60	29.75	28.81	25.29
•	October	28.42	26.82	30.11	W	26.80	29.47	28.57	29.27	25.49
	November	28.12	26.33	R30.03	W	26.78	R29.45	NA	R28.39	25.35
	December†	27.07	26.64	30.30	NA	26.96	29.32	NA	28.55	25.23

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

²No crude oil was imported.

†Preliminary data. R=Revised data. NA=Not available. W=Value withheld to avoid disclosure of company data.

Note: • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. Annual averages are the weighted average of the 12 monthly prices including those prices that were not published.

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

Price

U.S. City Average Retail Prices for Motor Gasoline¹

		Leaded Regular	Unleaded Regular	Unleaded Premium	Average for All Types ²
			Cents per gallo	on, 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	142.9 142.1	129.5
	October	121.9 120.7	129.5 128.3	142.1	128.0 126.8
	November	118.1	126.0	139.4	124.4
	December	122.2	129.6	141.5	128.1
	Average			•	
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	118.9 117.2	127.4 125.5	141.0 139.5	125.7 123.9
	October	115.6	125.5	138.4	123.9
	November 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
	August	111.6	119.6	135.5	118.4
	September	112.0	120.3	136.0	118.9
	October	112.7	120.9	136.5	119.5
	November	112.4	120.7	136.4	119.3
	December	110.9	119.3	135.4	117.9
	Average	112.9	121.2	136.6	119.8
1985	January	106.0	114.8	130.4	114.5

¹See Note 5 in the Notes and Sources for this section.

²Also includes types of gasoline not shown separately.

³Beginning with September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. In the average for all types category, gasohol is now included and unleaded premium is weighted more heavily.

NA=Not available.

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

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

Price Refiner and Gas Plant Operator Sales Prices of Residual Fuel Oil¹

		Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Sulfur	il Fuel Oll Content an 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 gallo	on, 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	68.3	72.7	65.0	67.4	66.0	69.5	
	June	69.8	73.2	66.1	68.9	67.2	71.0	
	July	66.8	71.5	64.0	66.7	65.0	69.0	
	August	65.6	69.5	62.7	65.0	63.6	67.1	
	September	65.9	70.0	63.8	64.9	64.5	67.5	
	October	66.8	70.8	64.3	65.8	65.1	67.8	
	November	R66.8	70.4	63.6	65.8	64.6	67.9	
	December†	67.5	70.5	63.3	65.6	64.6	67.7	
	Average†	68.5	72.0	63.9	65.9	65.4	68.7	

^{*}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 estimates. See Note 8 in the Notes and Sources for this section for additional information.
Sources: •See the Notes and Sources for this section

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

Price Refiner and Gas Plant Operator Sales Prices of Petroleum Products for Resale¹

		Finished Motor Gasoline ²	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
				Cents p	er gallon, excludir	ng 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	83.2	81.9	44.4
	June	84.5	116.8	84.2	88.1	82.4	81.9	44.1
	July	81.7	117.2	82.8	87.6	79.4	79.3	42.3
	August	81.1	116.7	81.0	86.0	77.8	77.7	43.2
	September	82.8	116.8	81.7	88.8	80.0	78.4	44.8
	October	83.6	116.4	82.9	88.9	80.8	80.0	46.1
	November	81.9	114.8	81.4	88.0	79.4	79.0	45.6
	December†	78.0	114.0	80.1	86.4	77.1	77.0	43.0
	Average†	83.2	116.5	83.0	91.6	82.1	80.3	45.0

¹Sales for Resale are those made to purchasers who are other-than-ultimate consumers, that is, wholesale sales. Sales to End Users are those made directly to the ultimate consumer including bulk customers such as agriculture, industry, and utilities, as well as residential and commercial customers.

²See Note 5 in the Notes and Sources for this section.

Proliminary data

[†]Preliminary data.

Notes: • Geographic coverage is the 50 States and the District of Columbia.
•Prices prior to January 1983 are Energy Information Administration estimates. See Note 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 Users¹

		Finished Motor Gasoline ²	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
				Cents	oer gallon, excludi	ing 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	•	114.7	130.3	102.4	112.3	91.4	99.5	56.5
1981	Average	114.7	130.3					
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	8.88	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	93.4	123.9	85.2	102.4	90.9	83.2	70.4
	June	92.5	124.6	84.5	94.3	86.9	84.0	70.6
	July	90.4	124.3	84.1	90.6	84.3	81.3	69.6
	August	89.2	123.2	83.4	92.8	82.8	79.7	71.9
	September	89.7	123.7	83.1	99.2	84.3	80.2	73.4
	October	90.5	123.3	83.2	102.7	87.3	81.6	74.1
	November	89.9	119.3	82.4	106.1	87.7	80.7	73.8
	Decembert	87.7	121.9	82.2	101.4	88.1	79.4	70.0
	Average†	90.6	123.4	84.2	103.6	91.6	82.3	73.6

¹Sales for Resale are those made to purchasers who are other-than-ultimate consumers, that is, wholesale sales. Sales to End Users are those made directly to the ultimate consumer including bulk customers such as agriculture, industry, and utilities, as well as residential and commercial customers.

²See Note 5 in the Notes and Sources for this section.

†Preliminary data.

Notes: • Geographic coverage is the 50 States and the District of Columbia.
•Prices prior to January 1983 are Energy Information Administration estimates. See Note 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

		СТ	ME	MA	NH	RI	VT	DE	DC	MD	NJ	NY	PA	VA
						С	ents per	gallon, e	excluding t	ax				
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	•	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
		109.1	102.8	109.1	104.1	110.5	112.9	106.0	117.0	110.3	107.9	112.1	105.8	108.7
1984	January	115.7	110.2	114.4	114.0	113.7	116.6	114.8	122.0	115.6	114.1	118.3	112.9	111.4
	February	121.7	112.6	119.7	117.8	117.5	118.9	118.4	128.6	121.9	119.5	124.3	117.4	117.5
	March	114.5	103.3	113.1	108.8	111.7	115.1	111.1	122.6	116.2	113.5	117.0	110.9	112.6
	April	113.4	103.3	112.4	107.7	110.7	113.3	109.9	119.9	115.6	110.6	116.0	107.8	110.8
	May	112.5	102.7	112.5	108.8	111.4	112.2	109.0	119.5	113.0	109.1	114.5	105.8	111.1
	June	110.6	103.7	110.5	104.5	110.8	112.8	107.2	116.3	109.9	107.1	115.0	103.3	108.7
	July	107.4	102.5	107.3	101.9	109.3	108.6	103.7	116.5	109.0	104.9	112.8	99.7	107.2
	August	104.7	98.0	105.5	98.6	106.0	108.0	103.7	109.8	105.2	103.6	110.2	99.6	105.2
	September	105:4	99.1	106.0	101.0	105.9	106.9	102.1	109.9	106.7	104.3	109.3	100.9	105.9
	October	106.2	101.9	106.9	102.2	107.4	108.0	103.5	111.8	107.5	105.7	111.9	101.5	106.7
	November	107.2	100.6	107.2	102.7	106.5	107.5	R103.3	R111.9	108.2	105.2	111.7	102.9	R107.1
	Decembert	106.4	97.9	107.0	103.1	107.1	106.4	102.8	112.9	107.1	104.9	111.3	103.2	107.6
	Average†	112.1	103.9	111.6	108.4	111.4	111.9	109.6	118.8	113.5	111.0	115.5	107.9	110.5

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

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

		wv	IL	IN	мі	MN	ОН	WI	ID	AK	OR	WA	U.S. Average
						Cents	s per gall	on, exclu	ding tax				-
4070	Averes	46.2	46.5	48.5	47.9	47.8	47.4	44.7	43.6	53.2	45.8	48.6	49.0
1978 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
1979	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
1980	Average 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	107.4 108.1	109.8 107.9	116.4	110.4	115.8	114.8
	July	110.3	114.0	115.1	113.1	114.5	112.1	106.1		115.1 116.2	110.4	115.3	114.4 114.4
	August	107.6	110.6	110.7	112.6	114.0	110.7		110.0		110.5	116.2	114.4
	September	110.0	110.9	110.9	112.8	114.1	110.0	106.9	109.7	115.2 115.7	110.3 111.5	117.1	118.2
	October	111.7	113.3	114.7	115.5	117.4	111.8	107.2 109.7	109.7	116.7	112.8	118.4 120.8	120.1
	November	111.6	113.9	116.5	116.0	117.7	112.9	109.7	110.9 110.7	115.0	113.6	119.3	118.2
	December	110.7	109.0	112.1	114.2	114.3	110.2						
	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	98.9	102.3	102.4	105.2	105.3	103.1	101.0	98.1	107.2	99.5	104.2	108.4
	June	99.5	101.6	105.9	103.3	104.2	101.7	100.5	93.8	107.8	98.2	103.3	107.2
	July	96.2	99.4	101.4	102.6	105.1	101.8	100.5	93.1	107.2	97.1	100.4	104.8
	August	96.6	98.9	100.3	101.8	104.5	99.5	100.0	97.4	107.3	94.9	99.7	103.3
	September	96.9	98.6	100.7	103.2	103.5	100.1	98.8	98.4	105.0	95.9	100.4	103.6
	October	98.3	97.1	100.9	103.0	103.0	101.2	100.7	99.4	107.8	96.5	100.9	104.9
	November	R99.6	95.8	102.3	103.5	R103.1	100.8	101.0	97.9	107.8	R97.6	101.3	R105.3
	Decembert	99.1	94.5	101.0	103.4	102.8	99.3	99.1	98.8	NA	97.3	100.6	104.8
	Average†	102.0	100.1	103.2	105.0	104.1	102.1	101.0	98.5	106.9	99.3	102.7	109.1

Footnotes continued.
†Preliminary data. R=Revised data. NA=Not available.
Note: • Prices prior to January 1983 are Energy Information Administration 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 ²	Residential Price ¹³
				Dollars per thousa	and 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 2.54	3.61	3.25	4.78
	April	2.40 2.45	4.94 4.93	2.54 2.68	3.61 3.60	3.32 3.42	4.86
	May June	2.45 2.45	4.86	2.83	3.66	3.42 3.57	5.17 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	2.66	5.03	3.06	4.38	²3.57	5.86
	February	2.66	5.09	3.15	4.41	3.41	5.87
	March	2.58	5.01	3.01	4.24	3.45	6.00
	April	2.53	4.58	2.90	4.44	3.35	6.06
	May	2.53	4.40	2.98	4.24	3.55	6.22
	June	2.59	4.41 4.31	2.95 2.96	4.22 4.28	3.58	6.20
	July	2.52 2.58	4.31 3.93	2.90 2.90	4.28 4.23	3.72 3.75	6.21
	August September	2.56 2.67	4.02	2.87	4.08	3.75 3.70	6.18 6.19
	October	2.58	4.03	2.86	4.22	3.60	6.10
	November	2.60	4.26	2.84	4.26	3.53	6.04
	December	2.61	4.33	2.73	4.12	3.49	6.06
	Average	2.59	4.51	2.93	4.26	3.58	6.06
1984	January	R2.65	4.40	2.80	4.25	3.56	5.98
	February	R2.70	4.37	2.82	3.97	3.59	6.01
	March	R2.62	4.40	2.80	4.18	3.50	5.98
	April	R2.59	4.23	2.95	4.11	3.55	6.00
	May	R2.61	4.15	2.86	4.17	3.74	6.19
	June	R2.65	4.25	2.89	4.06	3.74	6.13
	July	R2.63	4.15	2.95	4.04	3.86	6.17
	August	R2.64	4.12	2.95	4.07	3.78	6.20
	September	R2.57	4.34 4.19	2.84 2.96	4.10 4.07	3.82 3.74	6.26 6.25
	October November	R2.63 2.64	3.43	2.96 3.13	4.07 4.26	3.74 3.69	6.25 6.12
	December	2.64 2.64	NA	NA	NA	NA	6.09
	Average	2.63	NA NA	NA NA	NA NA	NA	6.06
1985	January	NA	NA	NA	NA	NA	6.19

¹Includes supplemental gaseous fuels.

²Data through December 1982 cover all steam-electric utility plants with a capacity of 25 megawatts or greater. From 1974 through 1982, data include peaking units. Beginning with January 1983, data cover steam-electric utility plants with a capacity of 50 megawatts or

greater.

Monthly residential prices are Energy Information Administration calculations. See Note 6 in the Notes and Sources for this section for estimation procedures.

R=Revised data. NA=Not available.

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

• Data for 1973 through December 1983 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 Plants²

Average Retail Electricity Prices¹ for Selected Privately Owned Utilities³

				•				-		
		Coal	Heavy Oil ⁴	Natural Gas*	All Fossil Fuels	Residential	Commercial	industrial	Other	Total ^s
		• • • • • • • • • • • • • • • • • • • •	_	million Btu			Cents pe	er kilowatthou	r	
					4= 0		•			4.00
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 6.98	4.92 5.12	6.01	6.18
	July	164.5	477.8	353.3 353.4	241.0 230.2	7.18 7.22	6.96 6.91	5.12 5.15	6.13 6.09	6.38 6.40
	August	164.7	467.1 475.3	353.4 354.7	230.2 229.4	7.18	6.97	5.25	6.07	6.41
	September October	165.9 164.9	490.2	355.9	222.2	7.18	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	²166.8	²448.9	2347.1	²216.7	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 7.23	4.88 4.87	6.69	6.26
	April	165.5 168.5	493.5 486.9	344.4 360.4	210.8 220.3	7.32 7.58	7.23 7.28	4.87 4.92	6.59 6.86	6.29 6.39
	May	168.8	480.9 487.9	360.4	223.0	7.89	7.48	5.10	6.79	6.66
	June July	168.0	467. 9 474.4	372.5	231.0	7.99	7.46 7.51	5.10	6.99	6.83
	August	167.0	460.4	365.0	223.4	8.05	7.51 7.51	5.22 5.16	6.77	6.83
	September	167.3	472.1	368.0	217.5	8.05	7.64	5.26	7.07	6.89
	October	168.7	474.1	361.0	218.7	7.95	7.63	5.14	6.88	6.71
	November	166.5	470.6	356.3	216.6	7.61	7.42	5.06	7.00	6.53
	December†	NA	NA	NA	NA	7.33	7.28	5.07	6.72	6.47
	Average†	NA	NA	NA	NA	7.56	7.32	5.03	6.77	6.52

Prices are calculated by dividing revenues by sales. Revenues may not correspond to sales for a particular month because of utility

billing and accounting procedures. This could result in uncharacteristic increases or decreases in the monthly prices.

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.

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.

See Note 7 in the Notes and Sources for this section.

^{*}See Note / In the Notes and Sources for this section.

*Includes supplemental gaseous fuels.

*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

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

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. Estimates of prices prior to January 1983 are based on FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices," and also exclude all Federal, State, or local taxes paid at the time of sale. Sales for Resale are those made to purchasers who are other-than-ultimate consumers. Sales to End-Users are sales made directly to the consumer of the próduct, 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 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 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."

"Domestic Crude Oil First Purchase Heport."

• Crude oil imports costs—Energy Information Administration (EIA), 1975 through January 1979: FEA Form F701-M-0, "Transfer Pricing Report"; February 1979 through September 1982: ERA Form 51, "Transfer Pricing Report"; October 1982 through June 1984: EP Form 51, "Monthly Foreign Crude Oil Transaction Report"; July 1984 forward: Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report";

• Refiner acquisition costs—EIA, January 1976: FEO Form 96, "Monthly Cost Allocation Report"; February 1976 through June 1978: FEA Form P110-M-1, "Refiners' Monthly Cost Allocation Report"; July 1978 through December 1980: ERA Form 49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report"; January 1981 forward: EIA Form 14, "Refiners' Monthly Cost Report."

• U.S. City average retail motor gasoline prices—Bureau of labor Statistics

Labor Statistics.

 No. 2 Distillate to Residences—January 1983 forward, EIA • No. 2 Distillate to Hesidences—January 1983 forward, EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Reselers/Retailers' Monthly Petroleum Product Sales Report." Prices prior to January 1983 are EIA estimates using data from FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" and EIA Form 9Å, "No. 2 Distillate Price Monitoring Report." See Note 8 on the previous page for additional information on the estimated

• 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 estimates using data from FEA Form 302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices." See Note 8 on the previous page for additional information on the estimated data.

Natural Gas: • 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

• Retail prices—EIA, January 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 through December 1982: FERC Form 5, "Electric Utility Company Monthly Statement"; January 1983 forward: EIA Form 826, "Electric Utility Company Monthly Statement."

International

Crude Oil Production

World crude oil production during December 1984 was 53.5 million barrels per day (bbl/d), down 10,000 bbl/d from the November 1984 level. Organization of Petroleum Exporting Countries (OPEC) output during December 1984 averaged 16.7 million bbl/d, also down 10,000 bbl/d from the level during the previous month.

Preliminary world crude oil production for the year 1984 was 53.7 million bbl/d, up 1.4 percent from the 1983 production. The 1984 average production by OPEC was 17.5 million bbl/d, down 102,000 bbl/d (0.6 percent) from the 1983 annual average. A major portion of this decrease in 1984 OPEC production compared to 1983 production occurred in Saudi Arabia, where production was 437,000 bbl/d lower. Other decreases occurred in Iran and Algeria, where production decreased by 239,000 bbl/d and 33,000 bbl/d, respectively, during 1984. The largest increases in production in 1984, compared to 1983 production, occurred in Iraq and Nigeria where production increased by 198,000 bbl/d and 141,000 bbl/d, respectively.

Among non-OPEC nations, crude oil production in 1984 increased in the United Kingdom by 201,000 bbl/d, in Mexico by 72,000 bbl/d, and in the United States by 69,000 bbl/d. Production in Canada decreased by 43,000 bbl/d in 1984, compared to the 1983 level.

Petroleum Consumption

Preliminary petroleum consumption data for December 1984 were available for France, Italy, and the United States. In comparison to December 1983 levels, consumption in each country decreased. Consumption in France and Italy decreased by 370,000 bbl/d and 320,000 bbl/d, respectively. U.S. consumption in December 1984 was 1.4 million bbl/d lower than in December 1983.

Petroleum Stocks

Preliminary data for December 1984 indicate that petroleum stock levels were down com-

pared to December 1983 levels in four of the six countries reporting. Petroleum stocks were down in Canada by 4.2 percent, in the United Kingdom by 1.7 percent, in West Germany by 0.8 percent and in Japan by 0.6 percent. The United States and Italy reported increases in petroleum stocks of 6.9 and 5.4 percent, respectively.

Petroleum stocks for all Organization for Economic Cooperation and Development members stood at 3,356 million barrels on September 30, 1984 (latest data available), an increase of 32 million barrels (1.0 percent) compared to stocks held on September 30, 1983.

Nuclear Electricity Production

In December 1984, the 20 non-Communist nations with significant nuclear power capacity generated 104.0 billion gross kilowatthours of nuclear-based electricity, a 17.6-percent increase compared to December 1983 generation. On an hourly basis, total 1984 nuclear generation of 1,053 billion gross kilowatthours of electricity is an 18.3-percent increase from the 1983 generation of 888 kWhe.

In Switzerland, Leibstadt, a 942-grossmegawatt-electric (MWe) boiling-water reactor operated by Kernkraftwerk, went into commercial operation on December 15. With the addition of Leibstadt, there were 270 operable power reactors in the non-Communist countries as of December 31, 1984, with a collective gross generating capacity of 195.1 gigawatts (million kilowatts). This compares to a gross capacity of 175.7 gigawatts for the 254 reactors operable on December 31, 1983, and represents an 11.0-percent gain in operable capacity during 1984. In December 1984, the 86 operable U.S. units accounted for 74.4 gross gigawatts (38.1 percent) of the non-Communist capacity, compared to 67.3 gross gigawatts (38.3 percent) of that capacity in 1983.

Crude Oil Production for Major Petroleum Producing Countries

		Algeria	Iraq	Kuwait¹	Libya	Qatar	Saudi Arabia¹	United Arab Emirates	Arab Members of OPEC ²	Indo- nesia	Iran
		-			Thous	sand barre	els per day				
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	1,560	800	993	407	8,680	1,483	14,723	1,487	1,100
	February	700	1,560	835	595	377	8,465	1,407	13,939	1,447	1,200
	March	600	1,560 940	740 675	595 695	302 231	7,166	1,396	12,359	1,397	1,800
	April	600 620	780	715	795	322	6,650 5,888	1,243 1,151	11,034 10,271	1,242 1,237	1,800 2,500
	May June	650	780 780	835	. 993	412	6,690	1,131	11,598	1,302	2,500
	July	650	830	865	1,290	277	6,189	1,187	11,288	1,302	2,500
	August	700	830	915	1,290	342	5,938	1,180	11,195	1,237	2,200
	September	800	830	880	1,390	287	5,702	1,180	11,069	1,297	2,700
	October	800	830	855	1,688	382	5,677	1,180	11,412	1,367	2,700
	November	800	830	910	1,688	312	5,632	1,180	11,352	1,397	2,700
	December	800	830	845	1,737	307	5,266	1,180	10,965	1,357	2,800
	Average	710	1,012	823	1,150	330	6,483	1,250	11,758	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	275 300	4,725	1,175	9,905	1,400	2,300
	June	700 700	1,000 1,050	920 1,086	1,100 1,100	300	4,620 5,536	1,180 1,175	9,820 10,947	1,400	2,500
	July August	700	1,100	1,181	1,100	265	5,931	1,175	11,462	1,490 1,490	2,800 2.500
	September	700	1,100	1,376	1,150	310	6.026	1,185	11,797	1,430	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	1,064	1,076	295	5,086	1,147	10,348	1,385	2,426
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	600 650	1,200	1,115	1,150	325 350	5,120 5,000	1,205	10,715	1,600	2,300
	May June	700	1,200 1,225	1,100 1,135	1,150 1,180	450	5,435	1,200 1,225	10,650 11,350	1,470 1,520	2,100 2,200
	July	650	1,200	1,100	1,100	430	5,000	1,090	10,570	1,320	2,200
	August	650	1,250	1,100	980	410	4,490	990	9,860	1,410	1,800
	September	650	1,300	1,190	1,000	480	4,090	1,110	9,820	1,400	1,800
	October	650	1,200	1,090	1,000	410	4,090	1,060	9,500	1,430	2,000
	November	650	1,250	990	1,000	280	3,990	1,060	9,220	1,350	2,400
	December	650	1,250	990	1,005	260	3,590	1,210	8,955	1,450	2,500
	Average	642	1,203	1,117	1,072	380	4,649	1,146	10,207	1,468	2,187

¹Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In December 1984, total production in this region amounted to approximately 380,000 barrels per day.
²Arab members of the Organization of Petroleum Exporting Countries (OPEC) include Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.
³OPEC total includes production in Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, United Arab Emirates, Indonesia, Iran, Nigeria, Venezuela, Ecuador, and Gabon.
Footnotes continued on following page.

Crude Oil Production for Major Petroleum Producing Countries (continued)

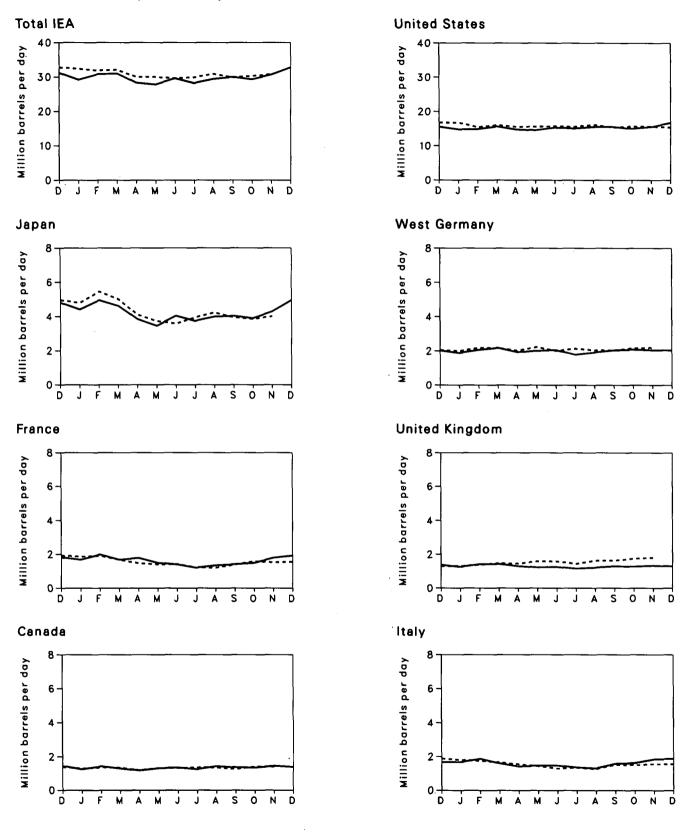
		Nigeria	Vene- zuela	Total OPEC ³	Canada	Mexico	United Kingdom	United States	China	USSR	Other	World
		_			-	Thousand	l barrels pe	r day				
1973	Average	2,054	3,366	30,989	1,800	465	2	9,208	1,090	8,465	3,655	55,674
1974	Average	2,255	2,976	30,729	1,684	571	2	8,774	1,315	9,000	3,777	55,852
1975	Average	1,783	2,346	27,155	1,439	705	12	8,375	1,490	9,625	4,079	52,880
1976	Average	2,067	2,294	30,738	1,295	831	245	8,132	1,670	10,143	4,258	57,312
	-	2,085	2,238	31,298	1,320	981	768	8,245	1,874	10,682	4,517	59,685
1977	Average	1,897	2,166	29,805	1,313	1,209	1,082	8,707	2,082	11,185	4,674	60,057
1978	Average	•	2,100	30,928	1,496	1,461	1,568	8,552	2,122	11,460	4,948	62,535
1979	Average	2,302	2,350 2,168	26,891	1,435	1,936	1,622	8,597	2,114	11,773	5,170	59,538
1980	Average	2,055	•	•	1,435	2,313	1,811	8,572	2,012	11,909	5,352	55,900
1981	Average	1,433	2,102	22,646	-		•	•	•	•	•	•
1982	January	1,765	1,992	21,391	1,346	2,314	1,864	8,509	2,037	11,926	5,588	54,975
	February	1,395	1,736	20,050	1,408	2,549	1,913	8,702	2,037	11,926	5,655	54,240
	March	945	1,877	18,708	1,306	2,544	1,957	8,667	2,037	11,926	5,445	52,590
	April	890	1,496	16,809	1,025	2,779	2,065	8,591	2,042	11,926	5,613	50,850
	May	1,310	1,485	17,160	1,231	2,714	2,041	8,683	2,042	11,926	5,638	51,435
	June	1,645	1,506	18,939	1,469	2,789	2,094	8,646	2,042	11,926	5,585	53,490
	July	1,280	1,807	18,542	1,364	2,789	2,075	8,658	2,042 2,042	12,026 12,026	5,609 5,648	53,105
	August	1,105	2,007	18,135	1,436	2,794	2,080 2,129	8,634 8,701	2,042	12,026	5,599	52,795 53,370
	September	1,170	1,997	18,608	1,436	2,829 2,899	2,129	8,701	2,042	12,437	5,588	54,775
	October	1,480	2,168	19,527	1,447 1,569	2,939	2,119	8,697	2,057	12,437	5,776	55,160
	November	1,355	2,309 2,334	19,512 19,080	1,436	3,024	2,173	8,598	2,057	12,437	5,837	54,735
	December Average	1,215 1,295	1,895	18,868	1,372	2,748	2,065	8,649	2,045	12,080	5,631	53,458
1983	January	880	2.060	16.952	1,288	2,980	2,135	8,697	2,085	12,410	5,913	52,460
1500	February	675	1,758	14,250	1,425	2,295	2,315	8,758	2,110	12,410	6,014	49,577
	March	905	2,055	15,192	1,461	2,415	2,265	8,700	2,110	12,410	5,949	50,502
	April	1,150	1,694	15,506	1,320	2,670	2,170	8,776	2,120	12,000	6,110	50,672
	May	1,625	1,664	17,266	1,383	2,795	2,235	8,631	2,120	11,900	6,095	52,425
	June	1,535	1,669	17,326	1,577	2,775	2,045	8,667	2,120	11,900	6,195	52,605
	July	1,710	1,674	19,033	1,551	2,685	2,280	8,636	2,120	11,900	6,187	54,392
	August	1,300	1,709	18,878	1,488	2,775	2,290	8,679	2,130	11,900	6,092	54,232
	September	1,220	1,704	19,278	1,504	2,735	2,385	8,784	2,130	11,900	6,157	54,873
	October	1,290	1,718	19,075	1,456	2,660	2,355	8,771	2,130	11,900	6,266	54,613
	November	1,245	1,748	19,075	1,483	2,730	2,490	8,770	2,130	11,900	6,386	54,964
	December	1,310	1,753	18,620	1,467	2,690	2,530	8,397	2,130	11,900	6,421	54,155
	Average	1,241	1,768	17,562	1,450	2,686	2,291	8,688	2,120	12,034	6,150	52,981
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	6,629	54,430
	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	18,135	1,400	2,770	2,470	8,688	2,190	11,750	6,602	54,005
•	May	1,200	1,840	17,660	1,400	2,840	2,439	8,752	2,190	11,900	6,654	53,835
	June	1,300	1,805	18,595	1,410	2,875	2,325	8,743	2,190	11,900	6,747	54,785
	July	1,200	1,860	17,840	1,485	2,845	2,450	8,769	2,220	11,870	6,811	54,290
	August	1,100	1,820	16,400	1,395	2,680	2,300	8,781	2,220	11,870	6,814	52,460
	September	1,300	1,850	16,590	1,290	2,705	2,435	8,759	2,230	11,790	6,956	52,755
	October	1,600	1,800	16,720	1,410	2,675	2,640	8,847	2,230	11,790	7,128	53,440
	November	1,600	1,725	16,705	•	2,745	2,680	8,846	2,230	11,750	R7,134	R53,530
	December	1,610	1,770	16,695	1,450	2,830	2,620	8,797	2,230	11,750	7,148	53,520
	Average	1,382	1,811	17,460	1,407	2,758	2,492	8,757	2,208	11,827	6,810	53,719

Footnotes continued.

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

Notes: • U.S. geographic coverage is the 50 States and the District of Columbia.
• Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.
Sources: • See the last page of this section.

Petroleum Consumption for Major Non-Communist industrialized Countries



Petroleum Consumption for Major Non-Communist Industrialized Countries¹

		Canada	France ²	italy³	Japan•	United Kingdom	United States	West Germany	Other IEA ^s	Total IEA ^e
					Thou	sand barrels p	er day			•
1973	Average	1,597	2,219	1,525	5,000	1,958	17,308	2,693	4,069	34,150
1974	Average	1,630	2,094	1,521	4,872	1,829	16,653	2,408	4,047	32,960
1975	Average	1,595	1,925	1,468	4,568	1,633	16,322	2,319	3,905	31,810
1976	Average	1,647	2,075	1,503	4,786	1,601	17,461	2,507	4,265	33,770
1977	Average	1,661	1,973	1,476	5,015	1,655	18,431	2,478	4,214	34,930
1978	Average	1,701	2,077	1,551	5,115	1,683	18,847	2,596	4,387	35,880
1979	Average	1,766	2,107	1,607	5,173	1,690	18,513	2,664	4,487	35,900
1980	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 2,035	3,671	28,400
	September	1,410	1,510 1,605	1,630 1,555	3,865 3,830	1,295 1,305	15,022 14,859	1,922	4,043 3,894	29,300 28,700
	October	1,335 1,470	1,735	1,650	4,355	1,415	15,009	2,005	3,694 4,196	30,100
	November December	1,470	1,735	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 1,315	3,745	1,160	15,019 15,480	1,785 1,920	3,861 4,035	28,200 29,400
	August	1,440	1,350 1,415	1,515	3,990 4,040	1,220 1,300	15,460	2,040	4,035 4,144	30,000
	September October	1,380 1,360	1,415	1,625	3,900	1,300	14,962	2,040	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	15,38 9	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
	Мау	1,329	1,410	1,435	3,740	1,590	15,566	2,230	4,110	30,000
	June	1,330	1,420	1,295	3,590	1,585	15,687	2,020	4,093	29,600
	July	1,370	1,225	1,350	3,950	1,440	15,547	2,140	4,103	29,900
	August	1,365	1,210	1,270	4,230	1,630	16,130	2,050	4,225 B4 145	30,900
	September	1,280 P1 415	1,400 R1,590	R1,525 1,500	3,960 B3 860	1,635 1,750	15,315 15,631	2,040 2,170	R4,145 R3,974	R29,900 R30,300
	October November	R1,415 1,420	R1,590 R1,530	1,560	R3,860 4,010	1,750	15,602	2,170	4,213	30,800
	December	1,420 NA	1,560	1,560	4,010 NA	NA	15,802	2,190 NA	4,213 NA	30,800 NA
	Average	NA NA	1,522	1,520	NA	NA	15,708	NA	NA	NA

^{*}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.

*Not a member of the International Energy Agency (IEA).

*Principal products only.

*Excludes liquefied petroleum gases and condensate.

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

*The 21 signatory nations of the IEA are listed in Note 1 on the last page of this section.

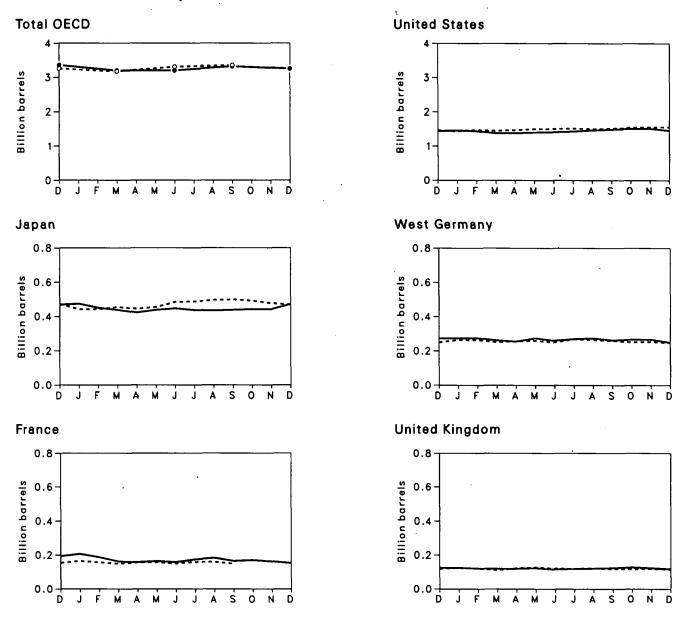
R = Revised data. NA = Not available.

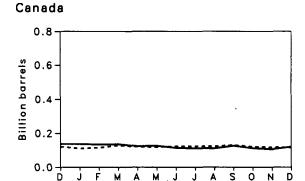
Notes: • U.S. geographic coverage is the 50 States and the District of Columbia.

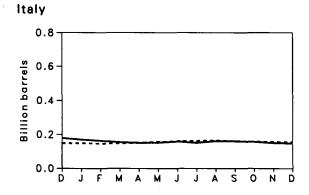
• Data for 1982 through 1984 are preliminary.

Sources: • See the last page of this section.

Petroleum Stocks for Major Non-Communist industrialized Countries at End of Period







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

	Canada	France	italy	Japan	United Kingdom	United States	West Germany	Other OECD ²	Total OECD ³
					Million barrel	s ·			
	149	203	NA	303	156	1,008	NA	NA	NA
	164	240	169	370	161	1,074	215	NA	NA
	167	239	143	375	164	1,133	190	NA	NA
	156	231	142	394	165	1,112	214	NA	NA
	167	239	161	409	148	1,312	225	524	3,185
			154		157		238	512	3,097
		226	163		169		272	594	3,375
					168		319	636	3,587
	161	214	167	482	143	1,484	297	583	3,531
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						NA
May						•			NA
									3,321
									NA
									NA 3,399
									3,399 NA
									NA NA
December	136		179	468	125	1,430	272	557	3,360
January	136		170	473	125	1,452	274	NA	NA
		187	163	450	121	1,430	274	NA	NA
March	135	162	155	456	120	1,372	262	539	3,201
April	123	158	151	422	120	1,374	255	NA	NA
May	125	164	152						NA
June	113					,	261		3,203
									NA
									NA
									3,324
									NA NA
December	120	153	149	471	119	1,454	250	542	3,258
January	109	165	149	441	125	1,430	264	NA	NA
February	114	157	146	441	121	1,464	263	NA	NA
March	128	149	148	454	112	1,444	251	489	3,174
April	120	156	151	444	123	1,465		NA	NA
May			-						NA
June									3,311
•						•			NA
									NA
									3,356 NA
									NA NA
November December	117 115	NA NA	157	476 468	117	1,555	254 248	NA NA	NA NA
	March April May June July August September October November December January February March April May June July August September October November December January February March April May June July August September October November December January February March April May June July August September October November	149 164 167 156 167 144 150 164 161 January 163 February 156 March 148 April 148 May 147 June 144 July 130 August 137 September 145 October 135 November 138 December 136 January 136 February 136 February 137 September 145 October 135 November 138 December 138 December 138 December 138 January 136 February 133 March 135 April 123 May 125 June 113 July 110 August 110 September 125 October 111 November 125 October 120 January 109 February 109 February 114 March 128 April 120 May 117 June 122 July 123 August 122 September 125 October 120 November 120 November 122 September 122 September 122 September 122 September 122 September 122 September 122 November 122	149 203 164 240 167 239 156 231 167 239 144 201 150 226 164 243 161 214 January 163 222 February 156 215 March 148 198 April 148 201 May 147 193 June 144 192 July 130 205 August 137 207 September 145 207 October 135 212 November 138 213 December 138 213 December 136 193 January 136 206 February 133 187 March 135 162 April 123 158 May 125 164 June 113 158 July 110 174 August 110 183 September 125 165 October 111 170 November 120 153 January 109 165 February 114 157 March 128 149 April 120 156 May 117 157 June 122 150 July 123 159 August 120 156 May 117 157 June 122 150 July 123 159 August 122 160 September 129 149 October 120 NA November 129 149 October 120 NA November 120 NA	149 203 NA 164 240 169 167 239 143 156 231 142 167 239 161 144 201 154 150 226 163 164 243 170 161 214 167 January 163 222 165 February 156 215 162 March 148 198 158 April 148 201 154 May 147 193 154 June 144 192 156 July 130 205 160 August 137 207 179 September 145 207 179 October 135 212 177 November 138 213 174 December 136 193 179 January 136 206 170 February 133 187 163 March 135 162 155 April 123 158 151 May 125 164 152 June 113 158 151 May 125 165 160 October 111 170 157 November 125 165 160 October 111 170 157 November 120 153 149 January 109 165 149 February 114 157 146 March 128 149 148 April 120 156 151 May 117 157 June 122 150 161 July 123 159 163 August 120 156 151 May 117 157 June 122 150 161 July 123 159 163 August 120 165 September 129 149 161 July 123 159 163 August 122 160 165 September 129 149 161 October 120 NA 158 November 129 149 161 October 120 NA 158 November 129 149 161 October 120 NA 158 November 129 149 161 October 120 NA 155	149 203 NA 303 164 240 169 370 167 239 143 375 156 231 142 394 167 239 161 409 144 201 154 413 150 226 163 460 164 243 170 495 161 214 167 482 January 163 222 165 464 February 156 215 162 460 March 148 198 158 479 April 148 201 154 483 May 147 193 155 484 June 144 192 156 477 July 130 205 160 460 August 137 207 179 470 October 135 212 177 471 November 138 213 174 472 December 136 193 179 468 January 136 206 170 473 February 136 206 170 473 February 136 206 170 473 February 137 187 163 450 March 138 158 159 460 January 136 206 155 456 April 123 158 151 422 May 125 164 152 437 June 113 158 159 460 July 110 174 151 436 August 110 183 161 433 September 125 165 160 450 December 120 153 149 471 January 109 165 169 471 January 109 165 149 441 February 114 157 146 441 March 128 149 148 454 April 120 156 151 444 May 117 157 157 441 March 128 149 148 454 April 120 156 151 444 May 117 157 157 454 June 122 150 161 484 July 123 159 163 486 April 120 156 151 444 May 117 157 157 454 June 122 150 161 484 July 123 159 163 486 April 120 156 151 444 May 117 157 157 454 June 122 150 161 484 July 123 159 163 486 August 122 160 165 495 September 129 149 161 498 October 120 NA 158 491 November 117 NA 157 476	Canada France Italy Japan Kingdom Million barrel	Canada France Italy Japan Kingdom States	Name	Canada

NA=Not available.

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

Sources: . See the last page of this section.

¹Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined products. Petroleum stocks include all nonmilitary petroleum held for storage, regardless of ownership, within each country in bulk terminals, refinery tanks, pipeline tankage, intercoastal tankers, tankers in port, and inland ship bunkers. Data exclude oil held in pipelines (except for the United States), rail and truck cars, sea-going ships' bunkers, service stations, retail stores, and tankers at sea.

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

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

<sup>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.</sup>

Nuclear Electricity Generation by Non-Communist Countries¹

		Argen- tina²	Belgium	Brazil	Canada	Finland	France	India	italy	Japan	Nether- lands	Paki- stan
						Billion gr	oss kilowa	tthours				
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	8.0	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	R1.3	(s)	3.3 3.6	0.9 1.2	7.8 8.3	0.1 0.1	0.6 0.6	9.5	0.4	0
	July	0.2 0	R1.5 R1.5	0	3.6	1.5	7.0	0.1	0.6	9.8 9.7	0.4 0.4	0
	August September	(s)	R1.1	ŏ	3.2	1.5	7.2	0.2	0.4	8.0	0.4	(s) (s)
	October	0	R1.8	ŏ	4.0	1.4	6.6	0.2	0.6	7.5	0.4	(s)
	November	(s)	1.8	Ŏ	3.3	1.3	8.3	0.3	0.3	7.8	0.4	ő
	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 0.2	0.7 1.6	(s) (s)	4.6 4.3	1.6 1.5	11.3 10.5	0.2 0.2	0.1 0.1	7.9 8.4	(s)	(s)
	April May	0.2	2.5	(5)	3.9	1.2	9.6	0.2	0.1	9.2	0.2 0.3	(s) (s)
	June	0.2	2.5	ŏ	4.4	1.0	9.3	0.3	0.7	9.1	0.4	(s)
	July	0.3	2.5	ŏ	4.8	1.3	11.0	0.2	0.7	9.6	0.4	0
	August	0.1	2.4	Ö	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	10.1	0.4	(s)
	October	0.2	2.2	0	4.7	1.4	13.0	0.3	0.6	10.2	0.4	(s)
	November	0.2	2.0	(s)	R4.3	1.5	13.4	0.2	0.7	9.2	0.4	(s)
	December	0.2	2.1	0.1	5.0	1.7	16.8	0.3	0.7	10.0	0.4	(s)
	Total	R ² 3.4	24.1	0.2	R53.1	17.4	144.2	2.9	5.8	R109.1	3.6	0.2
1984	January	0.2	2.7	(s)	5.0	1.7	18.0	0.3	0.4	10.1	0.3	(s)
	February	0.2	2.3	0.2	4.6	1.6	17.1	0.4	0.6	9.2	0.4	0
	March	0.2	1.9 2.4	0.1 (s)	5.1 4.3	1.7 1.6	17.8	0.3 0.4	0.7 0.3	8.8 8.9	0.2	0
	April May	0.2 0.2	2.4	(s) 0.1	4.3 3.6	1.0	15.4 14.2	0.4	0.3	10.4	0.2 0.4	(s)
	June	0.2	2.6	0.0	3.7	1.3	13.1	0.5	0.3	9.8	0.4	(s) (s)
	July	0.2	2.4	0.0	4.4	1.4	13.1	0.4	0.3	10.5	0.4	(s) (s)
	August	0.1	1.9	(s)	4.7	1.4	13.2	0.4	0.8	10.9	0.2	(s)
	September	0.1	1.9	0.3	3.9	1.5	14.7	R0.2	0.8	11.2	0.4	(s)
	October	0.1	2.5	0.5	4.5	1.8	16.0	0.4	0.8	11.4	0.4	(s)
	November	0	2.6	0.4	4.7	1.7	17.8	0.3	0.8	11.4	0.4	(s)
	December	0.1	2.6	0.4	5.1	1.7	20.9	0.2	0.8	12.0	0.4	(s)
	Total	²4.5	27.7	2.0	53.9	18.5	191.2	4.1	6.9	124.9	3.7	0.3

¹Figures are for gross electricity generation, as opposed to net electricity generation. Net figures are generally less than gross figures by about 5 percent, which represents the energy consumed by the generating plants themselves.

²The 1983 and 1984 totals include the Embalse reactor for which monthly data are not available. This reactor generated 0.9 billion gross kilowatthours in 1983 and 2.8 billion gross kilowatthours in 1984.

³The United Kingdom assesses generation at 4-, 5- or 6-week intervals, rather than by calendar month.

R=Revised data. (s)=Less than 0.05 billion gross kilowatthours.

Footnotes continued on following page.

International

Nuclear Electricity Generation by Non-Communist Countries¹ (continued)

		South Africa	South Korea	Spain	Sweden	Switzer- land	Taiwani	United Kingdom³	West	Non- Communist World Excluding U.S.		Total Non- Communist World
						Billion g	ross kilow	atthours				
1973	Total	o	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 0.8	4.1 3.3	5.3 5.3	43.2 42.5	24.0	67.1 65.3
	April	0	0.2 0	0.4 0.5	3.8 2.5	1.4 1.2	0.8	2.6	5.6	39.0	22.8 22.8	61.8
	May June	Ö	(s)	0.7	1.9	0.6	1.0	3.3	4.2	35.6	25.3	60.9
	July	ŏ	0.3	0.6	1.2	0.9	1.2	3.3	4.5	37.6	26.8	64.4
	August	Ö	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 0.6	0.9	3.7	1.4 1.5	0.8	4.3 4.9	5.6	42.7 46.7	23.8	66.5
	March April	0	0.6	0.9 0.8	4.1 3.3	1.5	1.8 1.7	4.3	6.0 4.0	43.1	25.0 23.4	71.7 66.5
	May	ŏ	0.4	0.4	2.4	1.2	2.0	3.4	2.9	40.6	23.9	64.5
	June	Ŏ	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	50.2	26.4	76.6
	October	0	0.8 1.2	1.1 1.1	3.6 4.5	1.5 1.4	1.6 1.6	3.7 3.9	7.6 7.1	53.0 52.8	27.6 26.6	80.6 79.3
	November December	Ö	1.3	1.4	5.0	1.5	1.7	5.5	6.2	59.8	28.6	79.3 88.4
	Total	ŏ	9.0	10.7	40.5	15.5	18.9	50.0	65.8	R574.3	313.6	R887.9
1984	January	0	1.3	1.5	5.3	1.5	1.7	4.4	6.9	61.4	30.8	92.2
	February	Ō	1.2	1.5	5.0	1.4	1.8	4.6	7.4	59.4	29.4	88.8
	March	0	1.0	1.4	5.4	1.5	2.0	4.8	7.1	60.2	28.6	88.8
	April	0.1	0.9	1.3	4.5	1.5	1.8	4.2	6.4	54.2	24.7	78.9
	May	0.1	0.8	1.9	3.3	1.3	1.4	4.3	7.2	53.2	27.3	80.5
	June	0.3	0.7	2.2	2.8	0.6	1.8	4.7	7.1	52.0	26.4	78.4
	July August	0.5 0.7	0.7 0.9	2.5 2.3	2.4 3.5	1.3 1.0	2.4 2.4	3.7 3.6	6.1 6.2	52.5 54.3	29.3 31.6	81.8 85.9
	September	0.7	0.9	2.6	4.2	1.4	2.4	4.9	7.9	60.6	30.0	90.6
	October	0.7	1.3	1.8	5.0	1.5	2.0	4.1	8.1	62.9	26.4	89.3
	November	0.4	1.3	1.9	4.5	1.5	1.8	4.4	9.1	64.9	25.1	90.0
	December	0.5	0.9	2.2	5.4	1.9	2.3	6.3	9.5	73.1	30.8	104.0
	Total	4.0	11.8	23.0	51.3	16.3	24.6	54.1	89.7	712.6	340.5	1,053.1

Footnotes continued.

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

• Totals may not equal the sum of components due to subsequent revisions to data and 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, Den-mark, 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: • 1973-1983 annual data (except the United States): Energy Information Administration (EIA), 1983 International Energy Annual.

 1973-1984 U.S. annual and monthly data: EIA. 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

"International Energy Statistical Review" (except the United

U. S. data: EIA, Petroleum Supply Monthly.

International Energy Agency totals for latest months are

Petroleum Stocks: • U. S. data: EIA. Petroleum Supply

Other OECD data: OECD, Quarterly Oil Statistics; Comite Professionnel du Petrole, Bulletin Mensuel.
 Total OECD data: Sum of data for all OECD member countries using above sources.
 Nuclear Electricity Generation: • Nucleonics Week.

Conversion Factors

Units of Measure

Weight

1,000 kilograms or 2,204,62 pounds 1 metric ton contains contains 2,240 pounds 1 long ton 2,000 pounds 1 short ton contains

Conversion Factors for Crude Oil (Average Gravity)

42 gallons 1 barrel contains

1 barrel contains 0.136 metric tons (0.150 short tons) 1 metric ton contains 7.33 barrels

contains 6.65 barrels 1 short ton

Conversion Factors for Uranium

1 short ton (U₂O₄) contains 0.769 metric tons of uranium 1 short ton (UF_e) contains 0.613 metric tons of uranium 1 metric ton (UF₆) 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	195.60	217.4
1982	207.38	230.7
1983	215.34	238.1
1984‡	223.38	248.3

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

Approximate Heat Content of Refined Petroleum Products

	per	Barre
Asphalt	. 6	.636
Aviation gasoline	. 5	.048
Butane		.326
Butane-propane mixture ¹	. 4	.130
Distillate fuel oil		.825
Ethane	. з	.082
Ethane-propane mixture ²	. з	.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.

Conversion **Factors**

Million Btu

^{2 70} percent ethane and 20 percent propane.

Approximate Heat Content of Fuels, 1973-1978

	Units	1973	1974	1975	1976	1977	1978
Coal							
Production	Million Stu/short ton	R23.389	R23.081	R22.907	R22.862	R22.602	R22,252
Consumption		R23.071	R22.685	R22.510	R22.499	R22.268	
Non-electric utility		R24.919	R24.823	R24.777	R24.890		R22.022
Electric utility		R22.246	R21.781	R21.642	R21.679	R24.721	R24.512
Imports		25.00	25.00	25.00	25.00	R21.508	R21.275
Exports		R26.60	26.70			25.00	25.00
	William Dia/Short ton	N20.00	20.70	26.56	26.60	26.55	26.48
Anthracite							
Production	Million Btu/short ton	23.17	22.56	R22.39	22.77	23.18	23.52
Consumption	Million Btu/short ton	22.71	21.95	21.74	22.15	22.69	22.97
Non-electric utility	Million Btu/short ton	24.34	23.75	23.65	23.84	24.99	25.17
Electric utility	Million Btu/short ton	17.92	17.20	17.06	17.53	17.24	17.10
Imports and exports		25.40	25.40	25.40	25.40	25.40	25.40
Bituminous coal and lignite							-
	Million Btu/short ton	000.004					
Production		R23.391	R23.087	R22.911	R22.863	R22.597	R22.242
Consumption	Million Btu/short ton	R23.073	R22.694	R22.522	R22.509	R22.266	R22.014
Residential and commercial		22.887	22.523	22.258	22.819	22.594	22.078
Coke plants		R26.800	R26.800	R26.800	R26.800	R26.800	R26.800
Other industrial & transportation		22.585	22.420	22.439	22.528	22.290	22.175
Electric utility		R22.262	R21.799	R21.659	R21.692	R21.521	R21,284
Imports		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
Coal coke, imports and exports	Million Btu/short ton	R24.80	R24.80	R24.80	R24.80	R24.80	R24.80
Crude oil							
Production	Million Stu/barrel	5.800	5.800	5.800	5.800	E 000	5 000
Imports		5.817	5.827	5.821	5.808	5.800	5.800
Exports		5.800	5.800	5.800	5.800	5.810 5.800	5.802 5.800
On the all and antiction and the					******	0.000	5.500
Crude oil and petroleum products			_				
Imports	Million Btu/barrel	5.897	5.884	5.858	5.856	5.834	5.839
Exports	Million Btu/barrel	5.752	5.774	5.748	5.745	5.797	5.808
Petroleum products ²							
Consumption	Million Btu/barrel	5.515	5.504	5.494	5.504	5.518	5.519
Residential and commercial		5.387	5.377	5.358	5.383	5.389	5.382
Industrial		5.565	5.537	5.527	R5.535	5.552	5.546
Transportation		5.397	5.394	5.392	5.396	5.402	
Electric utility		6.245	6.238	6.250	6.251	5.402 6.249	5.407
Imports		5.983	5.959	5.935			6.251
Exports		5.752	5.773	5.935 5.747	5.980 5.743	5.908	5.955
LPG consumption average		3.746	3.730	3.747 3.715	5.743 3.711	5.796 3.677	5.814 3.669
Alabamah ang atawa Bandala		•		55	•	0.077	5.555
Natural gas plant liquids							
Production	Million Btu/barrel	4.049	4.011	3.984	3.964	3.941	3.925
Natural gas							
Production, dry	Btu/cubic foot	1,021	1,024	1,021	1.020	1.021	1.019
Production, wet		1,093	1.097	1.095	1,093	1,021	1,019
Consumption		1,021	1,024	1,033	1,020	1,093	1,000
Non-electric utility consumption		1,020	1.024	1,020	1,019	1,021	1,019
Electric utility consumption	Btu/cubic foot	1,024	1,022	1.026	1,013	1,019	
Imports	Btu/cubic foot	1,026	1,027	1,026	1,025	1,026	1,034 1,030
Exports		1,023	1,016	1,014	1,013	1,026	1,030
		.,020	.,010	1,014	1,013	1,013	1,013

Approximate Heat Rates for Electricity

Fossil fuel steam-electric power plant generation* Nuclear power plant generation	Btu/kWh	10,389 10,903 21,674	10,442 11,161 21,674	10,406 11,013 21,611	10,373 11,047 21,611	10,435 10,769 21,611	10,361 10,941 21,611
Electricity consumption		3,412	3.412	3.412	3.412	3 412	3 412

¹ Includes lease condensate.

Includes lease condensate.
 Weighted averages of the products included in each category are calculated using heat content values shown on the first page of this section.
 LPG consumption average is the annual weighted average of the LPG product supplied components: ethane, propane, butane, butane-propane mixture, ethane-propane mixture,

and isobutane. It is obtained by using heat content values shown on the first page of this

and isobularie. It is obtained by using near content values shown on the first page of this section.

This is used as the thermal conversion factor for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities. Sources: See "Thermal Conversion Factor Source Documentation."

Approximate Heat Content of Fuels, 1979-1984

	Units	1979	1980	1981	1982	1983	1984‡
Coal							
Production	Million Btu/short ton	R22.466	R22.418	R22.312	R22.242	R22.059	R22.127
Consumption	Million Btu/short ton	R22.103	R21.946	R21.712	R22.669	R21.574	R22.694
Non-electric utility	Million Btu/short ton	R24.640	R24.751	R24.506	R24.211	R24,110	R24.230
Electric utility		R21.364	R21.295	R21.085	R21.194	R21.133	R21,213
Imports		25.00	25.00	25.00	25.00	25.00	25.00
Exports	Million Btu/short ton	26.55	R26.38	R26.16	26.22	26.29	R26,44
LAPOILO	William Deby Short Con	20.00	1120.00	1120.10	LUILL	LO.LO	1120.44
Anthracite	Million Day Johans Ann	00.50	23.35	00.00	00.00	00.04	500.04
Production	Million Btu/short ton	23.59		23.69	23.69	23.24	R23.24
Consumption	Million Btu/short ton	22.70	22.16	22.10	23.00	22.41	R22.54
Non-electric utility		25.20	23.74	25.12	25.37	25.59	R25.41
Electric utility		17.45	17.65	18.17	18.16	16.52	R17.28
Imports and exports	Million Btu/short ton	25.40	25.40	25.40	25.40	25.40	25.40
Bituminous coal and lignite							
Production	Million Btu/short ton	R22.459	R22.411	R22.302	R22.234	R22.053	R22.122
Consumption	Million Btu/short ton	R22.100	R21.950	R21.712	R21.671	R21.581	R21.698
Residential and commercial	Million Btu/short ton	21.884	22,488	22,191	22.373	22.934	R22,902
Coke plants		R26.800	R26.800	R26.800	R26.800	R26.800	26.800
Other industrial & transportation		22.436	22.690	22.572	22.694	22.679	R22.763
Electric utility		R21.372	R21.301	R21.091	21.200	R21.141	R21.219
		25.000	25.000	25.000	25.000	25.000	25.000
Imports	Million Btu/short ton	26.570	26.404	26.176	26.231	26.300	
Exports	Million Blu/short ton	20.570	20.404	20.170	20.231	26.300	R26.445
Coal coke, imports and exports	Million Btu/short ton	R24.80	R24.80	R24.80	R24.80	R24.80	R24.80
Crude oil ^a							
Production	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800
Imports	Million Btu/barrel	5.810	5.812	5.818	5.826	R5.825	A5.823
Exports	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800
Crude oil and petroleum products							
Imports	Million Btu/barrel	5.810	5.796	5.775	5.775	R5.774	R5.763
Exports	Million Btu/barrel	5.832	5.820	5.821	5.820	5.800	R5.853
Petroleum products							
Consumption	Million Btu/barrel	5.494	5.479	5.448	5.415	R5.406	R5.393
Residential and commercial		5.471	5.468	5.409	5.392	R5.363	R5.265
Industrial		5.416	5.376	5.310	5.262	5.279	R5.245
Transportation		5.430	5.440	5.434	5.423	R5.416	R5.423
Electric utility		6.258	6.254	6.258	6.258	R6.255	R6.251
Imports		5.811	5.748	5.659	5.664	R5.677	R5.659
Exports	Million Btu/barrel	5.864	5.841	5.837	5.829	5.800	R5.871
LPG consumption averages	Million Btu/barrel	3.680	3.674	3.643	3.615	R3.614	R3.599
Natural gas plant liquids							
Production	Million Btu/barrel	3.955	3.914	3.930	3.872	R3.839	R3.960
Natural gas	Dhulaubia taat	4.004	4 000	4.007	4.000		
Production, dry		1,021	1,026	1,027	1,028	R1,031	R1,031
Production, wet		1,092	1,098	1,103	1,107	R1,115	R1,115
Consumption		1,021	1,026	1,027	1,028	R1,031	R1,031
Non-electric utility consumption		1,018	1,024	R1,025	1,026	R1,031	R1,031
Electric utility consumption	Btu/cubic foot	R1,035	R1,035	R1,035	R1,036	R1,030	R1,030
Imports	Btu/cubic foot	1,037	1,022	1,014	1,018	R1,024	R1,024
Exports	Btu/cubic foot	1,013	1,013	1,011	1,011	R1,010	R1,010

Approximate Heat Rates for Electricity

Fossil fuel steam-electric power plant generations	Btu/kWh	10,353	10,388	10,453	R10,423	R10.4451	R10.445
Nuclear power plant generation	Btu/kWh	10,879	10,908	11,030	R11,073	R10.9051	R10.905
Geothermal energy power plant generation	Btu/kWh	21,545	21,639	21,639	R21,6291	21,2901	R21,303
Electricity consumption	Btu/kWh	3,412	3,412	3,412	3,412	3,412	3,412

<sup>Includes lease condensate.
Weighted averages of the products included in each category are calculated using heat content values shown on the first page of this section.

LPG consumption average is the annual weighted average of the LPG product supplied components: ethane, propane, butane, butane-propane mixture, ethane-propane mixture, and isobutane. It is obtained by using heat content values shown on the first page of this</sup>

^{*} This is used as the thermal conversion factor for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities. ‡=Preliminary data. Sources: • See "Thermal Conversion Factor Source Documentation."

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Refined Petroleum Products

Asphalt. • 1973 forward: The Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Aviation Gasoline. • 1973 forward: EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication Competition and Growth in American Energy Markets 1947–1985, 1968.

Butane. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published by the Gas Processors Suppliers Association/Gas Processors Association in the *Engineering Data Book*, Ninth Edition, 1972.

Butane-Propane Mixture. • 1973 forward: EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See "Butane" and "Propane."

Distillate Fuel Oil. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, *Bureau of Mines Standard Average Heating Value of Various Fuels, adopted January 3, 1950.*

Ethane. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published by the Gas Processors Suppliers Association/Gas Processors Association in the *Engineering Data Book*, Ninth Edition, 1972.

Ethane-Propane Mixture. • 1979 forward: EIA calculated 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See "Ethane" and "Propane."

Isobutane. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published by the Gas Processors Suppliers Association/Gas Processors Association in the *Engineering Data Book*, Ninth Edition, 1972.

Jet Fuel, Kerosene Type. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as published for "Jet Fuel, Commercial" by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets* 1947–1985, 1968.

Jet Fuel, Naphtha Type. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel as published for "Jet Fuel, Military" by the Texas Eastern Transmission Corporation in the report Competition and Growth in American Energy Markets 1947–1985, 1968.

Kerosene. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, *Bureau of Mines Standard Average Heating Values of Various Fuels, adopted January 3, 1950.*

Lubricants. • 1973 forward: EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Miscellaneous Products. • 1973 forward: EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Motor Gasoline. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel as published for "Gasoline, Motor Fuel" by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets* 1947–1985, 1968.

Natural Gasoline. • 1973 forward: EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Petrochemical Feedstocks, Naphtha 400 Degrees F or Less. • 1973 forward: Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphtha. See "Special Naphtha."

Petrochemical Feedstock, Over 400 Degrees F.
• 1973 forward: Assumed by EIA to be 5.825 million Btu per barrel, equal to the thermal conversion factor for distillate fuel oil. See "Distillate Fuel Oil."

Petrochemical Feedstock, Still Gas. • 1973 forward: Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See "Still Gas."

Petroleum Coke. • 1973 forward: EIA adopted the thermal conversion factor of 6.024 million Btu per

barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum *Bureau of Mines Standard Average Heating Value of Various Fuels, adopted January 3, 1950.* The Bureau of Mines calculated this factor by dividing the 30,120,000 Btu per short ton as given in the referenced Bureau of Mines internal memorandum by 5.0 barrels per short ton as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Plant Condensate. • 1973 forward: Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published by the Gas Processors Suppliers Association/Gas Processors Association in the *Engineering Data Book*, Ninth Edition, 1972.

Residual Fuel Oil. • 1973 forward: EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the Bureau of Mines internal memorandum Bureau of Mines Standard Average Heating Values of Various Fuels, adopted January 3, 1950.

Road Oil. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel which was assumed to be equal to that of asphalt (see "Asphalt") and was first published by

Approximate Heat Content of Fuels

Coal and Coal Coke

Anthracite, Consumption. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of anthracite production and the heat content of anthracite imports less the heat content of anthracite exports, including shipments to U.S. Armed Forces overseas, and dividing this total heat content by the total anthracite consumed, adjusted for the quantity of anthracite stock changes and unaccounted for.

Anthracite, Consumption by Non-Electric Utility Users. • 1973 forward: Calculated annually by EIA by subtracting the total heat content of anthracite received at electric utilities from the total heat content of all anthracite consumed and dividing the resulting amount by the quantity of anthracite consumed by non-electric utility users.

Anthracite, Consumption by Electric Utilities.

• 1973 forward: Calculated annually by EIA by dividing the heat content of anthracite receipts at electric utilities by the quantity of anthracite received at electric utilities. Heat contents and receipts are from FERC Form 423 and predecessor forms.

the Bureau of Mines in the Petroleum Statement, Annual, 1970.

Special Naphtha. • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel which was assumed to be equal to that of total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement, Annual, 1970.*

Still Gas. • 1973 forward: EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel and first published in the *Petroleum Statement, Annual, 1970.*

Unfinished Oil. • 1973 forward: EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see "Distillate Fuel Oil") and first published in the *Annual Report to Congress, Volume 3, 1977.*

Unfractionated Stream. • 1979 forward: EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for natural gasoline (see "Natural Gasoline") and first published in the *Annual Report to Congress, Volume 2, 1981*.

Wax. • 1973 forward: EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*. *Annual*. 1956.

Anthracite, Imports and Exports. • 1973 forward: EIA assumed the anthracite imports and exports to be freshly mined anthracite having an estimated heat content of 25.40 million Btu per short ton.

Anthracite, Production. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of freshly mined anthracite (estimated to have an average thermal content of 25.40 million Btu per short ton) and the heat content of anthracite recovered from culm banks (estimated to have a thermal content of 19.00 million Btu per short ton) by the total quantity of anthracite production.

Bituminous Coal and Lignite, Consumption.

1973 forward: Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite consumed by electric utilities, coal coke plants, other industrial plants, the residential and commercial sector, and the transportation sector by the sum of their respective tonnages.

Bituminous Coal and Lignite, Consumption by Residential and Commercial Users. • 1973: Calculated by EIA through regression analysis measuring

the difference between the average Btu value of coal consumed by residential and commercial users and that of coal consumed by electric utilities in the 1974-1982 period. • 1974 forward: Calculated by EIA by assuming that the bituminous coal and lignite delivered to residential and commercial users from each coal-producing district (reported on EIA Form 6 and predecessor Bureau of Mines Form 6-1419-Q) contained a heat value equal to bituminous coal and lignite received at electric utilities from each of the same coal-producing districts (reported on FERC Form 423). The average Btu value of coal by coalproducing district was applied to the volume of deliveries to residential and commercial users from each coal-producing district, and the sum total of the heat value was divided by the total volume of deliveries.

Bituminous Coal and Lignite, Consumption by Coke Plants. • 1973 forward: Estimated by EIA to be 26.80 million Btu per short ton based on an input/output analysis of coal carbonization.

Bituminous Coal and Lignite, Consumption by Other Industrial and Transportation Users. • 1973: Calculated by EIA through regression analysis measuring the difference between the average Btu value of coal consumed by other industrial users and that of coal consumed at electric utilities in the 1974-1982 period. • 1974 forward: Calculated by EIA assuming that the bituminous coal and lignite delivered to other industrial users from each coal-producing district (reported on EIA Form 6 and predecessor Bureau of Mines Form 6-1419-Q) contained a heat value equal to bituminous coal and lignite received at electric utilities from each of the same coal-producing districts (reported on FERC Form 423). The average Btu value of coal by coal-producing district was applied to the volume of deliveries to other industrial users from each coal-producing district, and the sum total of the heat content was divided by the total volume of deliveries.

Bituminous Coal and Lignite, Consumption by Electric Utilities. • 1973 forward: Calculated annually by EIA by dividing the total heat content of bituminous coal and lignite received at electric utilities by the total quantity received at electric utilities. Heat contents and receipts are from FERC Form 423 and predecessor forms.

Bituminous Coal and Lignite, Exports. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of exported metallurgical coal (estimated to average 27.00 million Btu per short ton) and the heat content of exported steam coal (estimated to have an average thermal content of 25.00 million Btu per short ton) by the total quantity of bituminous coal and lignite exported.

Bituminous Coal and Lignite, Imports. • 1973 forward: EIA estimated the average thermal conversion factor to be 25.00 million Btu per short ton.

Bituminous Coal and Lignite, Production. • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite consumption, net exports, stock changes, and unaccounted for by the sum of their respective tonnages. Consumers' stock changes by sectors were assumed to have the same conversion factor as the consumption sector. Producers' stock changes and unaccounted for were assumed to have the same conversion factor as consumption by all users.

Coal, Production. • 1973 forward: Calculated by EIA by dividing the sum of the total heat content of bituminous coal and lignite and anthracite production by the sum of their respective tonnages.

Coal, Consumption. • 1973 forward: Calculated by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite consumption by the sum of their respective tonnages.

Coal, Consumption by Non-Electric Utility Users.

• 1973 forward: Calculated by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite consumed by non-electric utility users by the sum of their respective tonnages.

Coal, Consumption by Electric Utilities. • 1973 forward: Calculated by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite received at electric utilities by the sum of their respective tonnages received.

Coal, Exports. • 1973 forward: Calculated by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite exported by the sum of their respective tonnages.

Coal, Imports. • 1973 forward: Calculated by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite imported by the sum of their respective tonnages.

Coal Coke, Imports and Exports. • 1973 forward: EIA adopted the Bureau of Mines estimate of 24.80 million Btu per short ton.

Natural Gas

Natural Gas, Consumption. • 1973-1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in Gas Facts, an AGA annual. • 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity of natural gas consumed. Heat content and quantity consumed are from Form EIA-176.

Natural Gas, Consumption by Non-Electric Utility Users. • 1973 forward: Calculated annually by EIA by dividing the heat content of natural gas consumed by non-electric utility consumers by the quantity of non-electric utility natural gas consumed. Data are from Forms EIA-176, FERC Form 423, EIA-759, and predecessor forms.

Natural Gas, Consumption by Electric Utilities. 1973 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed at electric utilities by the quantity consumed at electric utilities. The heat contents and the quantities consumed are from Form EIA-759 and predecessor forms

Natural Gas, Exports. • 1973 forward: Calculated annually by EIA by dividing the heat content of exported natural gas by the quantity of natural gas exported, both reported on Form FPC-14.

Natural Gas, Imports. • 1973 forward: Calculated annually by EIA by dividing the heat content of imported natural gas by the quantity of natural gas imported, both reported on Form FPC-14.

Natural Gas (Dry), Production. • 1973 forward: Assumed by EIA to be equal to the thermal conversion factor for the consumption of dry natural gas. See "Natural Gas, Consumption."

Natural Gas (Wet), Production. • 1973 forward: Calculated annually by EIA by adding the heat content of dry natural gas production and the total heat content of natural gas plant liquids production and dividing this sum by the total quantity of marketed (wet) natural gas production.

Natural Gas Plant Liquids, Production. • 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors of each natural gas plant liquid produced weighted by the quantity of each natural gas plant liquid produced.

Petroleum

Crude Oil, Exports. • 1973 forward: Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See "Crude Oil and Lease Condensate, Production."

Crude Oil, Imports. • 1973 forward: Calculated annually by EIA by weighting the thermal conversion factor of each type of crude oil imported by the quantity imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude imported from each foreign country from Form ERA-60 in 1977 and con-

verting average API gravity to average Btu content using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products*, 1933.

Crude Oil and Lease Condensate, Production.
• 1973 forward: EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum Bureau of Mines Standard Average Heating Values of Various Fuels adopted January 3, 1950.

Crude Oil and Petroleum Products, Exports.

• 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported and crude oil exported weighted by the quantity of each petroleum product and crude oil exported. See "Petroleum Products, Exports" and "Crude Oil, Exports."

Crude Oil and Petroleum Products, Imports.

• 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product and each type of crude oil imported weighted by the quantity of each petroleum product and each type of crude oil imported. See "Crude Oil, Imports." and "Petroleum Products, Imports."

Petroleum Products, Consumption. • 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed, weighted by the quantity of each petroleum product consumed.

Petroleum Products, Consumption by Residential and Commercial Users. • 1973–1983: Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential and commercial sector, weighted by the estimated quantity of each petroleum product consumed in the residential and commercial sector. The quantity of petroleum products consumed is estimated in the State Energy Data System as documented in the State Energy Data Report. • 1984: Estimated by EIA.

Petroleum Products, Consumption by Industrial Users. • 1973–1983: Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed in the industrial sector, weighted by the estimated quantity of each petroleum product consumed in the industrial sector. The quantity of petroleum products consumed is estimated in the State Energy Data System as documented in the State Energy Data Report. • 1984: Estimated by EIA.

Petroleum Products, Consumption for Transportation Use. • 1973–1983: Calculated annually by EIA as the average of the thermal conversion factor for

all petroleum products consumed in the transportation sector, weighted by the estimated quantity of each petroleum product consumed in the transportation sector. The quantity of petroleum products consumed is estimated in the State Energy Data System as documented in the State Energy Data Report.

• 1984: Estimated by EIA.

Petroleum Products, Consumption by Electric Utilities. • 1973–1983: Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed at electric utilities, weighted by the quantity of each petroleum product consumed at electric utilities. The quantity of petroleum consumed is estimated in the State Energy Data

System as documented in the State Energy Data Report. • 1984: Estimated by EIA.

Petroleum Products, Exports. • 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product weighted by the quantity of each petroleum product exported.

Petroleum Products, Imports. • 1973 forward: Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantity of each petroleum product imported.

Approximate Heat Rates for Electricity

Fossil Fuel Steam-Electric Power Plant Generation. • 1973–1983: This is the weighted average heat rate of fossil fueled steam-electric power plants in the United States as published by EIA in *Historical Plant Cost and Annual Production Expenses for Selected Electric Plants.* • 1984: Estimated to be the same as 1983.

Geothermal Energy (Consumed by Electric Utilities). • 1973–1981: Calculated by EIA by weighting the average annual heat rates of operating geothermal units by the installed nameplate capacities as reported on Form FPC-12. • 1982 forward: Estimated by EIA.

Hydroelectric Power. There is no generally accepted practice for measuring hydroelectric power thermal conversion rates. EIA has selected a rate that is equal to the prevailing heat rate factor at fossil fuel steam-electric power plants. By using the heat rate factor, it is possible to evaluate fossil fuel requirements for replacing hydroelectric power production during periods of drought. Furthermore, it allows for better comparisons with certain other countries such as Norway where hydroelectric power is the principal

means for producing electricity. The heat content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatthour.

• 1973 forward: Assumed by EIA to be the fossil fuel steam-electric power plant factor.

Nuclear Power. • 1973 forward: Calculated annually by EIA by dividing the total heat content consumed in reactors at nuclear plants by the total (net) electricity generated by nuclear plants as reported on Form FERC-1, EIA-412 and predecessor forms.

Photovoltaic and Solar Thermal Energy (Consumed by Electric Utilities). • 1984: Assumed by EIA to be the fossil fuel steam-electric power plant factor.

Wind Energy (Consumed by Electric Utilities).

• 1983 forward: Assumed by EIA to be the fossil fuel steam-electric power plant factor.

Wood and Waste Energy (Consumed by Electric Utilities). • 1973 forward: Assumed by EIA to be the fossil fuel steam-electric power plant factor.

Glossary

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 Selsmic 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. endpoint, 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-days, 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.

Supplemental Gaseous Fuels. Mainly synthetic natural gas, propane-air, and refinery gas. May also include coke oven gas, biomass gas, manufactured gas, and air injected for Btu stabilization.

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

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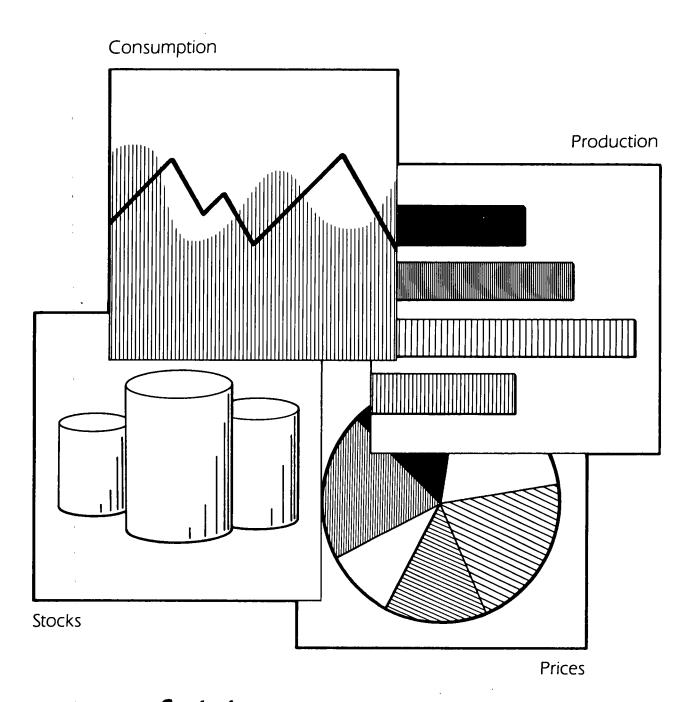


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