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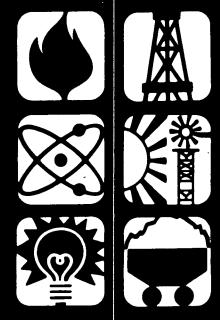
Monthly Energy Review

February 1983

Energy Information Administration Washington, D.C.

Preliminary 1982 Estimates

See Executive Summary



Monthly Energy Review

February 1983

Energy Information Administration

Office of Energy Markets and End Use U.S. Department of Energy Washington, D.C. 20585 DOE/EIA-0035(83/02)





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

Occasionally feature articles on energy-related subjects and highlights from recently published Department of Energy reports are included in this publication. The following articles and highlights have appeared in previous issues:

Energy Consumption March 1975 Nuclear Power April 1975 The Price of Crude Oil June 1975 U.S. Coal Resources and Reserves July 1975 Propane, A National Energy
Resource September 1975
Short-Term Energy Supply and
Demand Forecasting at FEA October 1975
Curtailments of Natural Gas Service January 1976
Home Heating Conservation Alternatives
and the Solar Collector Industry March 1976
Trends in United States
Petroleum Imports September 1976
Crude Oil Entitlements Program January 1977
Motor Gasoline Supply and Demand July 1977
Short-Term Petroleum Supply and Demand May 1978

The Energy Requirements of
U.S. Agriculture July 1979
Three Mile Island —
Possible Regulatory Responses and Their
Impacts on the Nation's Short-Term
Electric Utility Fuel Outlook October 1979
Reduction in Natural Gas Requirements
Due to Fuel Switching December 1979
The Solar Collector Industry and
Solar Energy February 1980
Trends in the Installation of
Energy Using Equipment in
New Residential Buildings March 1980
The Energy Information Administration's
Oil and Gas Reserves Program —
The First Year's Report June 1980
Energy From Urban Waste August 1980
Natural Gas Liquids: Revisions to
1979 DataOctober 1980
EIA Weekly Petroleum Data:
Data Collection and Methods of
Estimation November 1980
The Department of Energy Disclosure Policy
for Individually Identifiable Information
Maintained by the Energy Information
Administration December 1980
Changes in 1981 Petroleum Data Series May 1981
Information Services of the Energy
Information Administration September 1981
An Overview of Natural Gas
Markets December 1981
The Interstate and Intrastate
Natural Gas Markets January 1982
Natural Gas Drilling and Production
Under the Natural Gas Policy Act February 1982
Highlights: U.S. Crude Oil, Natural Gas,
and Natural Gas Liquids Reserves,
1981 Annual Report September 1982
Impacts of Financial Constraints on the
Electric Utility Industry October 1982
Highlights: Energy Company Development Patterns in the Postembargo Era,
Volume One
Highlights: Residential Energy
Consumption Survey:
Consumption and Expenditures January 1983

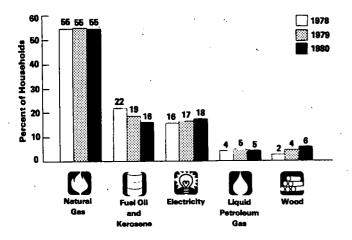
HIGHLIGHTS:

Residential Energy Consumption Survey: Housing Characteristics

Residential Energy Consumption Survey: Housing Characteristics, 1980, DOE/EIA-0314, published in June 1982 by the Energy Information Administration (EIA), presents energy-related characteristics of U.S. households in 1980. The report provides data on fuel and appliance use, thermal characteristics of housing units, and conservation activities.

During 1978-1980, U.S. households began making shifts in main heating fuels. As shown in Figure 1, natural gas remained the predominant main heating fuel from 1978 to 1980. Homes using electricity as the main heating fuel increased from 12.1 million in 1978 to 14.3 million in 1980, and in 1980 exceeded the number of homes using fuel oil and kerosene. Households using wood increased from 1.9 million in 1978 to 4.7 million in 1980, and in 1980 wood replaced liquid petroleum gas (LPG) as the fourth most-used main heating fuel in the Nation. Of the 4.7 million households using wood as the

Figure 1. Distribution of Households by Main Heating Fuel by Year



Sources: • 1978—Residential Energy Consumption Survey: Consumption and Expenditures, April 1978 through March 1979 (July 1980), DOE/EIA-0207/5, Table 2. • 1979—Residential Energy Consumption Survey: 1979-1980 Consumption and Expenditures, Part 1: National Data (including Conservation) (April 1981), DOE/EIA-0262/1, Table 9. • 1980—Residential Energy Consumption Survey: Housing Characteristics, 1980 (June 1982), DOE/EIA-0314, Table 16.

main heating fuel, an estimated 0.9 million had a fuel oil central heating system. This dual capability provided them with the flexibility to shift between main heating fuels in response to factors such as availability and price.

In 1980, 57 percent of all households had air conditioning, compared to 56 percent in 1978. In 1980, 27 percent of all households had central air conditioning (as opposed to window units only), compared to 23 percent in 1978. Refrigerators and ranges were the most commonly used appliances in 1980, followed by color televisions, automatic clothes washers, clothes dryers, and black and white televisions. The number of households with microwave ovens increased from 8 percent in 1978 to 14 percent in 1980.

From 1978 through 1980, households continued to improve the thermal efficiency of their homes. The addition of expensive equipment such as storm windows remained relatively constant from 1978 to 1980 and the addition of inexpensive equipment such as weather-stripping continued to predominate as a conservation activity.

Conservation measures undertaken by households varied by climatic zones. In the colder parts of the country, a higher percentage of households undertook additional conservation measures, despite the high percentage of conservation features already present. In the 2-year period 1979–1980, for example, 8 percent of households in the Northeast region and 9 percent in the North Central region added storm windows, but only 4 percent in the West did so.

EIA designed the Residential Energy Consumption Surveys to collect data on energy consumption within the residential sector. Surveys were conducted for the years 1978, 1979, and 1980. Residential Energy Consumption Survey: Housing Characteristics, 1980 (June 1982), DOE/EIA-0314, reports on the first survey to collect data on quantity and price of wood consumed by households and to measure the square footage of the housing units surveyed. It is available from the Superintendent of Documents, U.S. Government Printing Office (stock number 061-003-00256-1).

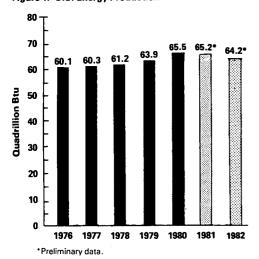
Energy Highlights in 1982

This issue of the *Monthly Energy Review* contains preliminary energy summary data for 1982. A 4.3-percent decline in total energy consumption marked the third year in a row that domestic energy consumption fell (see page 3). Decreases in the consumption of petroleum, natural gas, and coal contributed to the decline but were offset somewhat by increased use of hydroelectric and nuclear power. Because demand for energy was down, a lower level of imports was sufficient to meet U.S. energy needs (see page 4).

Production

In 1982, domestic energy production totaled 64.2 quadrillion Btu, 1.5 percent below the 65.2 quadrillion Btu produced in 1981 (see Figure 1 and page 6). Of the major fossil fuels, only natural gas production decreased. The 1.7 quadrillion Btu fall in natural gas production represented an 8.7-percent decrease from the 1981 level. Petroleum production (crude oil and natural gas plant liquids) increased 0.6 percent, and coal production remained at about the same level as in 1981. Production of hydroelectric, nuclear, and geothermal power and electricity from wood and waste rose 10.2 percent from the year before and accounted for 9.9 percent of total energy production.

Figure 1. U.S. Energy Production



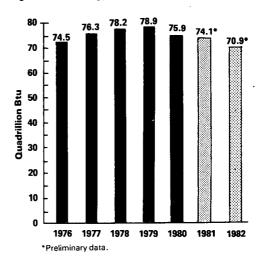
Some indicators of domestic exploration for petroleum and natural gas fell from the record levels attained in 1981. Crews engaged in seismic exploration were 13.7 percent fewer than 1981 (see page 59). The yearly average number of rotary rigs in operation in 1982 dropped to 3,105, 21.8 percent below the 1981 level (see page 58). However, oil well completions rose 7.1 percent and gas well completions were up 6.0 percent from previous year levels. This increase in the number of wells drilled despite the decline in rotary rig activity is caused by delays of up to several months in reporting wells drilled.

Preliminary reports suggest that world crude oil production averaged approximately 52.8 million barrels per day in 1982, continuing to decline from the alltime high of 62.5 million barrels per day in 1979 (see page 97). The countries showing the greatest production declines for the first 10 months of 1982 compared to the same period in 1981 were Saudi Arabia, Kuwait, the United Arab Venezuela, and Indonesia. Emirates, Iran's production was up 48.4 percent, the largest increase of any oil producing nation.

Consumption

Domestic energy consumption declined for the third consecutive year. The total of

Figure 2. U.S. Energy Consumption



TX CCULIVO SENDA

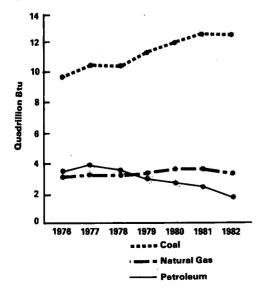
70.9 quadrillion Btu was 4.3 percent below the previous year's total (see Figure 2 and page 8). Consumption of all three major fuels decreased. Petroleum consumption, accounting for 42.9 percent of the total, fell 5.3 percent. Consumption of coal and natural gas fell 2.9 and 8.1 percent, respectively. Energy from hydroelectric and nuclear power, however, showed an increase in consumption of 10.3 percent.

Preliminary estimates indicate that total energy input at electric utilities fell 1.1 percent in 1982 (see page 27). Coal continued to be the predominant fuel used at electric utilities, accounting for 52.0 percent of the total (see Figure 3). Natural gas consumed at electric utilities decreased 11.4 percent and petroleum (primarily residual fuel oil) decreased 18.4 percent.

Net imports

U.S. energy net imports (imports less exports) fell for the fifth consecutive year. Net imports of all energy sources totaled 7.3 quadrillion Btu in 1982, 24.2 percent below the level in 1981 (see Figure 4 and page 10). A 22.1-percent decrease in petroleum net imports accounted for most of the decline. Net imports of natural gas, which accounted for 12.9 percent of all

Figure 3. U.S. Fossil Fuel Input at Electric Utilities



energy net imports, rose 8.6 percent. Net exports of coal fell 4.5 percent.

The cost of energy net imports fell to \$52.7 billion, 25.9 percent below the previous year and 29.7 percent below the all-time high of \$74.9 billion for 1980 (see page 12). The percent of domestic consumption met by net energy imports also fell. In 1982, energy net imports accounted for 10.2 percent of energy consumed, compared to 12.9 percent the year before and 23.6 percent in 1977, when energy net imports and U.S. dependence on imported oil both peaked.

Stocks

Primary crude oil stocks, excluding the Strategic Petroleum Reserve (SPR), totaled 354 million barrels as of December 31, 1982, 2.5 percent below the previous year's total (see page 35). Yearend stocks of the major petroleum products, motor gasoline, distillate fuel oil, and residual fuel oil, were down by 6.3, 5.7, and 12.8 percent, respectively. Ending stocks of SPR, however, stood at 293 million barrels at the end of 1982, a 27.4-percent increase from stocks at the end of 1981.

Working gas (gas available for withdrawal) in underground storage on December 31, 1982, totaled 3.1 trillion cubic feet, 9.1 percent above the level one year earlier

Figure 4. U.S. Energy Imports (Net)

1977

*Preliminary data.

1978

1979

1980

1981

(see page 54). Coal stocks as of September 30, 1982 (the latest month for which data are available), totaled 189.9 million short tons, 15.1 percent above the level of stocks one year earlier.

Prices

In November (the latest month for which data are available), the refiner acquisition cost of imported crude oil fell 8.1 percent from the November 1981 cost (see page 82), contributing significantly to a decline in the trade deficit for all energy of 25.9 percent in 1982. The November 1982 refiner acquisition cost of domestic crude oil also fell, to \$31.53 per barrel, a 5.9percent drop from the November 1981 level. The 1982 average retail price for motor gasoline in U.S. cities was 5.3 percent below the 1981 average.

In contrast to petroleum prices, prices of other energy sources rose. The price of natural gas used for residential heating rose to \$6.11 per thousand cubic feet, a 24.4-percent increase between October 1981 and October 1982 (the latest month for which data are available; see page 91). The October 1982 price of coal delivered to electric utilities was 2.8 percent higher than the October 1981 price (see page 92), and the average retail price for electricity rose 9.4 percent between November 1981 and November 1982.

Energy Summary (Quadrillion (1015) Btu)

	December			Cum	Cumulative January through December						
·	1982	.1981	Percent Change	1982	1982 Daily Rate	1981	1981 Daily Rate	Percent Change ¹			
Total Production	5.204	5.755	-9.6	64.174	0.176	65.183	0.179	-1.5			
Petroleum ²	1.751	1.737	+0.8	20.572	0.056	20.444	0.056	+0.6			
Natural Gas	1.499	1.714	-12.6	18.178	0.050	19.907	0.055	-8.7			
Coal	1.401	1.768	-20.8	19.076	0.052	19.071	0.052	0.0			
Other ³	0.553	0.536	. 3.2	6.348	0.017	5.760	0.016	+10.2			
Total Consumption	6.277	6.933	-9.5	70.923	0.194	74,123	0.203	-4.3			
Petroleum ⁴	2.530	2.819	-10.3	30.400	0.083	32.113	0.088	-5.3			
Natural Gas	1.773	2.131	-16.8	18.305	0.050	19.911	0.055	-8.1			
Coal	1.402	. 1.430	-2.0	15.655	0.043	16.118	0.044	-2.9			
Other ^a	0.572	0.553	+3.5	6.563	0.018	5.981	0.016	+9.7			
Net Imports	0.586	0.738	-20.7	7.264	0.020	9:583	0.026	-24.2			
Petroleum ^e	0.639	0.931	-31.4	8.900	0.024	11.418	0.031	-22.1			
Natural Gas	0.105	0.090	+17.0	0.936	0.003	0.862	0.002	+8.5			
Coal ⁷	(0.177)	(0.299)	(-40.8)	(2.787)	(0.008)	(2.918)	(0.008)	(-4.5)			
Other*	0.019	0.017	+11.1	0.215	0.001	0.222	0.001	-3.0			

Based on daily rates prior to rounding.

² Includes crude oil, lease condensate, and natural gas plant liquids.

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

p. 4 - last page of summary p. 5 - quarterly data - product p. 6 - " - consums

Includes crude oil, lease condensate, and natural gas plant liquids.
 Includes hydroelectric, nuclear, and geothermal power and electricity produced from wood and waste.
 Includes refined petroleum products and natural gas plant liquids.
 Includes hydroelectric, nuclear, and geothermal power, electricity produced from wood and waste, and net imports of electricity and coal coke.
 Includes crude oil, lease condensate, refined petroleum products, unfinished oils, natural gasoline, plant condensate, and imports of crude oil for the Strategic Petroleum Reserve.
 Parentheses indicate exports are greater than imports.
 Includes net imports of electricity and coal coke.
 Note: Totals may not equal sum of components due to independent rounding.

Energy Summary¹

		Energy Production ²	Energy Consumption ²	Energy Imports ²	Energy Exports	Net Timports	o70 consumption
•			Quadrillion	(1015) Btu		>111cpor 1	14,917.0
1973	TOTAL	62.433	74.609	14.732	2.073	12.659	المائين
1974	TOTAL	61.229	72.759	14.417	2.241	12,176	16.7
1975	TOTAL	60.059	70.707	14.113	2.389 11,7	12414-625	16.6
1976	TOTAL	60.091	74.510	16.838	2.213	14,625	19.6
1977	TOTAL	60.293	76.332	20.092	2.097 -	11,995	23,6
1978	TOTAL	61.231	78.175	19.261	1.952	17.309	2211
1979	TOTAL	63.851	78.910	19.620	2.900	16,720	21.2
1980	January	5.668	7.400	1.695	0.227		
	February	5.308	6.959	1.473	0.210		
	March	5.695	6.845	1.476	0.264		
	April	5.458	5.983	1.339	0.287		
	May	5.591	5.833	1.281	. 0.344		
	June	5.398	5.690	1.287	0.359	•	
	July	5.242	5.940	1.210	0.323		
	August	5.335	5.870	1:203	0.313		
			5.790				
	September	5.300		1.168	0.330		
	October	5.492	6.146	1.248	0.370		
	November	5.334	6.253	1.227	0.341		
	December	5.678	7.202	1.363	0.338		
	TOTAL	65.499	75.910	15.971	3.706 ;	17.265	16-2
1981	January	5.509	7.474	1.346	0.264		
	February	5.251	6.342	1.210	0.280		
*	March	5.749	6.452	1.192	0.372		
	April	4.633	5.719	1.083	0.328		•
	May	4.770	5.774	1.130	0.277	•	
	June	5.257	5.828	1.039	0.249		
	July	5.611	6.036	1.139	0.395		
			5.935				
	August	5.788		1.131	0.423		
	September	5.610	5.661	1.201	0.414		
	October	5.764	5.983	1.178	0.469		
	November	5.488	5.986	1.109	0.443		
	December	5.755	6.933	1.172	0.434		
	TOTAL	65.183 ·	74.123	13.929	4.347	9.582	12,9
1982	January	5.542	7.231	1.073	0.323		
	February	5.262	6.297	0.880	0.377		
	March	5.859	6.374	0.917	0.443		
	April	5.460	5.870	0.847	0.430		
	May	5.427	5.446	0.957	0.421		
	June	5.365	5.410	1.001	0.414		
	July	5.184	5.673	1.130	0.386		
	August	5.405	5.643	1.016	0.358		
	September	5.139	5.376	1.025	0.378		
	October	R5.247	R5.549	1.043	0.440		
	November	5.079	5.776	1.110	0.351		
	December	5.204	6.277	0.921	0.335	طنعيية	10,2
	TOTAL	64.174	70.923	11.920	4.656	9,264	10/0

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

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

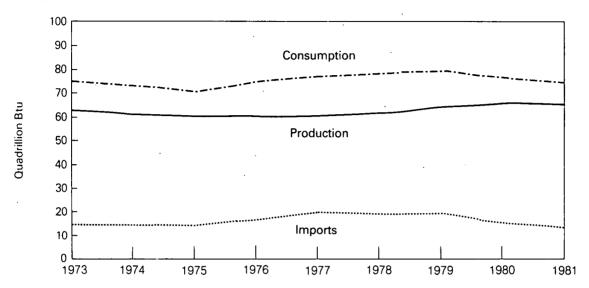
For definitions, see Notes on the last page of this section.

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

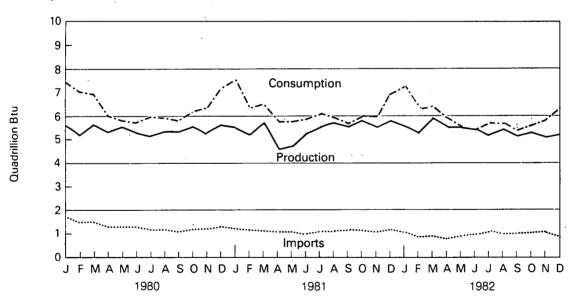
R = Revised data.

Energy Summary

Yearly



Monthly



Production of Energy by Type

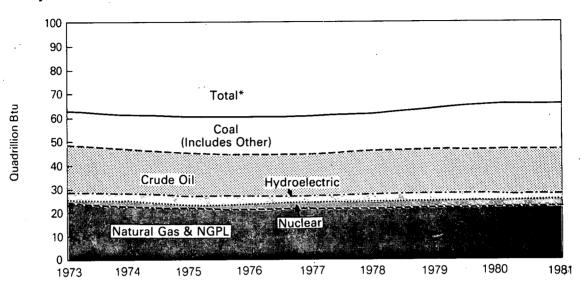
			. Coal¹	Crude Oil ²	NGPL ³	Natural Gas (Dry)	Hydro- electric Power ⁴	Nuclear Electric Power	Other ^s	Total Energy Produced	Yearly Cumulative Energy Produced
			* •			Quadrillion	(1015) Btu				
	1973	TOTAL	14.366	19.493	2.569	22.187	2.861	0.910	0.046	62.433	
	1974	TOTAL	14.468	18.575	2.471	21.210	3.177	1.272	0.056	61.229	•
	1975	TOTAL	15.189	17.729	2.374	19.640	3.155	1.900	0.072	60.059	
	1976	TOTAL	15,853	17.262	2.327	19.480	2.976	2.111	0.081	60.091	
	1977	TOTAL	15.829	17.454	2.327	19.565	2.333	2.702	0.082	60.293	
strike	1978	TOTAL	15.037	18.434	2.245	19.485	2.937	3.024	0.068	61.231	
	1979	TOTAL	17.651	18.104	2.286	20.076	2.931	2.715	0.089	63.851	•
	1980	January	1.611	1.560	0.200	1.814	0.265	0.210	0.008	5.668	5.668
•		February	1.517	1.464	0.188	1.702	0.224	0.205	0.008	5.308	10.976
	•	March	1.643	1.564	0.190	1.822	0.255	0.213	0.008	5.695	16.671
		April	1.613	1.511	0.191	1.664	0.270	0.200	0.008	5.458	22.129
		May	1.645	1.553	0.196	1.690	0.302	0.196	0.010	5.591	27.719
		June	1.652	1.488	0.183	1.581	0.290	0.195	0.009	5.398	33.118
		July	1.419	1.537	0.185	1.612	0.256	0.224	0.010	5.242	38.360
		August	1.584	1.513	0.184	1.571	0.214	0.259	0.011	5.335	43.695
		September	1.593	1.500	0.178	1.575	0.194	0.251	0.010	5.300	48.995
		October	1.674	1.534	0.184	1.642	0.187	0.261	0.010	5.492	
		November	1.589	1.478	0.184	1.647	0.201				54.488
		December	1.670	1.547	0.189			0.223	0.011	5.334	59.822
		TOTAL	19.209	18.249	2.254	1.792 20.112	0.233 2.890	0.235 2.672	0.011 0.114	5.678 65.499	65.499
	1981	January	1.526	1.535	0.200	1.748	0.234	0.253	0.011	5.509	5 500
		February	1.642	1.397	0.181	1.570	0.234	0.230			5.509
		March	1.812	1.549	0.197				0.010	5.251	10.760
						1.730	0.216	0.234	0.011	5.749	16.509
		April	0.839	1.489	0.188	1.669	0.218	0.220	0.010	4.633	21.142
		May	0.882	1.529	0.193	1.693	0.253	0.210	0.010	4.770	25.911
		June	1.425	1.501	0.187	1.631	0.276	0.225	0.010	5.257	31.168
		July	1.715	1.528	0.188	1.660	0.263	0.246	0.011	5.611	36.779
		August	1.824	1.543	0.196	1.701	0.226	0.287	0.011	5.788	42.567
		September	1.892	1.497	0.189	1.574	0.187	0.260	0.011	· 5.610	48.176
		October,	1.973	1.540	0.194	1.637	0.189	0.219	0.011	5.764	-53.940
		November	1.773	1.494	0.191	1.579	0.199	0.242	0.010	5.488	59.428
		December	1.768	1.544	0.193	1.714	0.250	0.277	0.010	5.755	65.183
strike		TOTAL	19.071	18.146	2.298	19.907	2.732	2.901	0.127	65.183	
	1982	January	1.530	1.559	0.188	1.702	0.282	0.273	0.009	5.542	5.542
		February	1.621	1.411	0.167	1.562	0.279	0.215	0.008	5.262	10.804
		March	1.914	1.546	0.191	1.648	0.312	0.242	0.007	5.859	16.663
		April	1.683	1.505	0.186	1.554	0.292	0.232	0.007	5.460	22.123
		May	1.627	1.557	0.184	1.527	0.294	0.230			
		June	1.640	1.510	0.177	1.479	0.293	0.256	0.008 0.010	5.427 5.365	27.550
		July	1.377	1.555	0.177	1.500	0.293				32.915
		August	1.661	1.564	0.185	1.468		0.271	0.010	5.184	38.099
		September	1.547	1.520			0.250	0.264	0.010	5.405	43.504
		October			0.178	1.407	0.208	0.270	0.010	5.139	48.643
			1.603	1.560	0.187	R1.433	0.207	0.247	0.011	R5.247	R53.890
		November	1.475	1.512	0.192	1.398	0.243	0.247	0.011	5.079	58.969
		December	1.401	1.557	0.194	1.499	0.276	0.265	0.012	5.204	64.174
		TOTAL	19.076	18.357	2.215	18.178	3.223	3.013	0.111	64.174	

Geographic coverage: the 50 United States and the District of Columbia. Totals may not equal sum of components due to independent rounding.
Includes bituminous coal, lignite, and anthracite.
Includes lease condensate.
Natural gas plant liquids.
Includes industrial and utility production of hydropower.
Includes geothermal power and electricity produced from wood and waste. R=Revised data.

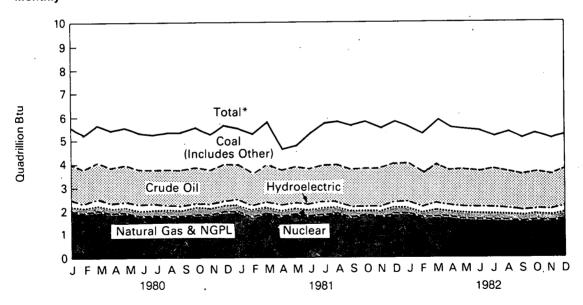
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Production of Energy by Type

Yearly



Monthly



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

Consumption of Energy by Type

Gas Petro- electric Electric Coal Con- Energy				Motural		Liveine.	Nuclear	Net Imports		Total	Yearly
1973 TOTAL			Coal ¹						Other•		Cumulative Energy Consumed
1974 TOTAL 12.876 21.732 33.455 3.309 1.272 0.059 0.056 72.759					•	Quadrillion	ı (10 ¹⁵) Btu				
1975 TOTAL 12.823 19.948 32.731 3.219 1.900 0.014 0.072 70.707 1976 TOTAL 13.733 20.345 35.175 3.066 2.111 0.000 0.081 74.510 1977 TOTAL 13.964 19.931 37.122 2.515 2.702 0.015 0.082 76.332 1978 TOTAL 13.846 20.000 37.965 3.141 3.024 0.131 0.068 78.175 1979 TOTAL 15.109 20.666 37.123 3.141 2.715 0.066 0.089 78.910 1980 34.002 3.002 3.002 0.283 0.210 0.003 0.008 7.400	1973	TOTAL	13.300	22.512	34.840	3.010	0.910	(0.008)	0.046	74.609	
1976 TOTAL 13.733 20.345 35.175 3.066 2.111 0.000 0.081 74.510 1977 TOTAL 13.964 19.931 37.122 2.515 2.702 0.015 0.082 76.332 1978 TOTAL 13.846 20.000 37.965 3.141 3.024 0.131 0.068 78.175 1979 TOTAL 15.109 20.666 37.123 3.141 2.715 0.066 0.089 78.910 1980 January 1.397 2.296 3.202 0.283 0.210 0.003 0.008 6.959 14.359 14	1974	TOTAL	12.876	21.732	33.455	3.309	1.272	0.059	0.056	72.759	
1977 TOTAL 13.964 19.931 37.122 2.515 2.702 0.015 0.082 76.332 1978 TOTAL 13.846 20.000 37.965 3.141 3.024 0.131 0.066 78.175 1979 TOTAL 15.109 20.666 37.123 3.141 2.715 0.066 0.089 78.910 1980 January 1.397 2.296 3.202 0.283 0.210 0.003 0.008 7.400 7.	1975	TOTAL	12.823	19.948	32.731	3.219	1.900	0.014	0.072	70.707	
1978 TOTAL 13.846 20.000 37.965 3.141 3.024 0.131 0.068 78.175 1979 TOTAL 15.109 20.666 37.123 3.141 2.715 0.066 0.089 78.910 1980 39.000 3.200 2.203 0.202 0.203 0.205 0.0001 0.008 7.400	1976	TOTAL	13.733	20.345	35.175	3.066	2.111	0.000	0.081	74.510	
1978 TOTAL 13.846 20.000 37.965 3.141 3.024 0.131 0.068 78.175 1979 TOTAL 15.109 20.666 37.123 3.141 2.715 0.066 0.089 78.910 1980 39.000 1.397 2.296 3.202 0.283 0.210 0.003 0.008 7.400	1977	TOTAL	13.964	19.931	37.122	2.515	2.702	0.015	0.082	76.332	
1979 TOTAL 15.109 20.666 37.123 3.141 2.715 0.066 0.089 78.910	1978	TOTAL	13.846	20.000	37.965	3.141	3.024	0.131	0.068	78.175	
February	1979	TOTAL	15.109	20.666	37.123	3.141	2.715	0.066	0.089	78.910	
February	1980	January	1.397	2.296	3.202	0.283	0.210	0.003	0.008	7.400	7.400
March 1,295 2,107 2,951 0,273 0,213 (0,003) 0,008 6,845 21,204 April 1,158 1,575 2,759 0,287 0,200 (0,005) 0,008 5,983 27,186 May 1,162 1,392 2,758 0,321 0,196 (0,004) 0,010 5,833 33,020 June 1,234 1,288 2,661 0,307 0,195 (0,004) 0,009 5,690 38,710 July 1,389 1,329 2,719 0,275 0,224 (0,004) 0,010 5,940 44,650 August 1,381 1,315 2,676 0,232 0,259 (0,003) 0,011 5,870 50,520 September 1,261 1,333 2,728 0,211 0,251 (0,004) 0,010 5,790 56,510 0,004 0,009 0,000											
April											
May				1.575							
June											
July											
August 1.381 1.315 2.676 0.232 0.259 (0.003) 0.011 5.870 50.520											
September 1.261 1.333 2.728 0.211 0.251 (0.004) 0.010 5.790 56.310		•									
October November December 1.227 1.250 1.562 1.807 2.887 2.745 0.205 0.219 0.223 0.223 (0.002) (0.001) 0.011 0.011 6.253 6.208 68.708 TOTAL 15.461 20.391 34.202 3.107 2.672 2.672 (0.037) 0.114 75.910 75.910 1981 January February 1.344 1.314 March 2.338 1.949 1.202 3.130 2.606 0.239 0.236 0.253 0.234 0.234 0.234 0.003 0.001 0.001 0.001 6.342 0.003 13.816 0.329 0.266 0.267 April April June 1.302 1.313 1.343 1.343 2.645 1.349 2.664 0.286 0.296 0.227 0.246 0.283 0.246 0.283 0.246 0.286 0.225 0.246 0.286 0.225 0.246 0.280 0.260 0.000 0.001 0.											
November 1.250 1.807 2.745 0.219 0.223 (0.002) 0.011 6.253 68.708		•						. ,			
December 1.394 2.184 3.127 0.252 0.235 (0.001) 0.011 7.202 75.910 TOTAL 15.461 20.391 34.202 3.107 2.672 (0.037) 0.114 75.910											
TOTAL 15.461 20.391 34.202 3.107 2.672 (0.037) 0.114 75.910 1981 January 1.487 2.338 3.130 0.255 0.253 0.000 0.011 7.474 7.474 February 1.314 1.943 2.606 0.239 0.230 (0.001) 0.010 6.342 13.816 March 1.322 1.949 2.702 0.236 0.234 (0.003) 0.011 6.452 20.267 April 1.202 1.528 2.523 0.237 0.220 (0.001) 0.010 5.774 31,761 June 1.313 1.343 2.664 0.285 0.225 (0.004) 0.010 5.828 37.589 July 1.483 1.349 2.664 0.283 0.246 0.000 0.011 5.935 49.560 September 1.314 1.299 2.573 0.206 0.260 (0.002) 0.011 5.961 55.221 Oct											
1981 January 1.487 2.338 3.130 0.255 0.253 0.000 0.011 7.474 7.474 February 1.314 1.943 2.606 0.239 0.230 (0.001) 0.010 6.342 13.816 March 1.322 1.949 2.702 0.236 0.234 (0.003) 0.011 6.452 20.267 April 1.202 1.528 2.523 0.237 0.220 (0.001) 0.010 5.719 25.986 May 1.211 1.463 2.608 0.273 0.210 0.000 0.010 5.774 31.761 June 1.313 1.343 2.645 0.296 0.225 (0.004) 0.010 5.828 37.589 July 1.483 1.349 2.664 0.283 0.246 0.000 0.011 5.935 49.560 August 1.450 1.348 2.592 0.246 0.287 0.000 0.011 5.935 49.560 September 1.314 1.299 2.573 0.206 0.260 (0.002) 0.011 5.935 49.560 September 1.302 1.557 2.687 0.210 0.219 (0.003) 0.011 5.983 61.204 November 1.291 1.661 2.563 0.218 0.242 0.000 0.010 5.986 67.190 December 1.430 2.131 2.819 0.270 0.277 (0.003) 0.010 5.986 67.190 December 1.430 2.131 2.819 0.270 0.277 (0.003) 0.010 6.933 74.123 TOTAL 16.118 19.911 32.113 2.970 2.901 (0.017) 0.127 74.123 1.912 1.510 2.638 0.312 0.242 (0.001) 0.009 7.231								, ,			75.910
February 1.314 1.943 2.606 0.239 0.230 (0.001) 0.010 6.342 13.816 March 1.322 1.949 2.702 0.236 0.234 (0.003) 0.011 6.452 20.267 April 1.202 1.528 2.523 0.237 0.220 (0.001) 0.010 5.719 25.986 May 1.211 1.463 2.608 0.273 0.210 0.000 0.010 5.774 31.761 June 1.313 1.343 2.645 0.296 0.225 (0.004) 0.010 5.828 37.589 July 1.483 1.349 2.664 0.283 0.246 0.000 0.011 5.935 49.560 September 1.314 1.299 2.573 0.206 0.260 (0.002) 0.011 5.935 49.560 September 1.314 1.299 2.573 0.206 0.260 (0.002) 0.011 5.961 55.221 October 1.302 1.557 2.687 0.210 0.219 (0.003) 0.011 5.983 61.204 November 1.291 1.661 2.563 0.218 0.242 0.000 0.010 5.986 67.190 December 1.430 2.131 2.819 0.270 0.277 (0.003) 0.010 6.933 74.123 TOTAL 16.118 19.911 32.113 2.970 2.901 (0.017) 0.127 74.123 1982 January 1.522 2.428 2.699 0.302 0.273 0.000 0.009 7.231 7.231 February 1.315 2.018 2.446 0.297 0.215 (0.001) 0.008 6.297 13.528 March 1.281 1.870 2.638 0.312 0.322 (0.001) 0.007 5.870 25.772 May 1.206 1.169 2.521 0.314 0.230 (0.003) 0.010 5.410 36.628 July 1.406 1.173 2.509 0.302 0.270 (0.003) 0.010 5.673 42.301 August 1.397 1.183 2.500 0.270 0.264 (0.001) 0.010 5.643 47.944 September 1.249 1.171 2.453 0.228 0.270 (0.003) 0.010 5.376 53.320 October 1.216 R1.333 2.517 0.227 0.247 (0.001) 0.011 8.549 R58.860 December 1.268 1.528 2.471 0.263 0.247 (0.002) 0.011 5.776 64.645 December 1.240 1.773 2.530 0.297 0.265 (0.001) 0.011 5.776 64.645 December 1.240 1.773 2.530 0.297 0.265 (0.001) 0.011 5.776 64.645 December 1.402 1.773 2.530 0.297 0.265 (0.001) 0.011 5.775 64.645 December 1.402 1.	4004										~ .~.
March April 1.322 1.202 1.949 1.528 2.702 2.523 0.236 0.237 0.220 0.001 0.011 0.010 6.452 5.719 20.267 25.986 May 1.211 1.463 2.608 2.608 0.273 0.296 0.225 0.205 (0.001) 0.000 0.010 0.010 5.774 31.761 31.761 31.761 June 1.313 1.343 1.349 2.664 0.296 0.226 0.225 0.206 (0.000) 0.011 0.010 6.036 43.625 43.625 August 1.450 1.348 1.299 2.573 2.573 0.206 0.206 (0.002) 0.000 0.011 0.001 5.935 5.955 5.955 5.221 49.560 0.260 September 1.314 1.299 1.557 2.687 2.687 0.210 0.219 (0.003) 0.001 0.011 0.003 5.961 0.001 5.963 6.221 0.000 6.260 0.000 0.011 0.001 5.983 0.120 0.001 6.7190 0.003 6.7190 0.003 0.011 0.003 5.986 0.7190 0.003 6.7190 0.003 0.011 0.003 6.7190 0.003 0.010 0.003 6.7190 0.003 0.010 0.003	1961	•									
April 1.202 1.528 2.523 0.237 0.220 (0.001) 0.010 5.719 25.986 May 1.211 1.463 2.608 0.273 0.210 0.000 0.010 5.774 31.761 June 1.313 1.343 2.645 0.296 0.225 (0.004) 0.010 5.828 37.589 July 1.483 1.349 2.664 0.283 0.246 0.000 0.011 6.036 43.625 August 1.450 1.348 2.592 0.246 0.287 0.000 0.011 5.935 49.560 September 1.314 1.299 2.573 0.206 0.260 (0.002) 0.011 5.961 55221 October 1.302 1.557 2.687 0.210 0.219 (0.003) 0.011 5.983 61.204 November 1.291 1.661 2.563 0.218 0.242 0.000 0.010 5.933 74.123											

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

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

*Includes bituminous coal, lignite, and anthracite.

*Includes industrial and utility production and net imports of electricity.

*Parentheses indicate exports are greater than imports.

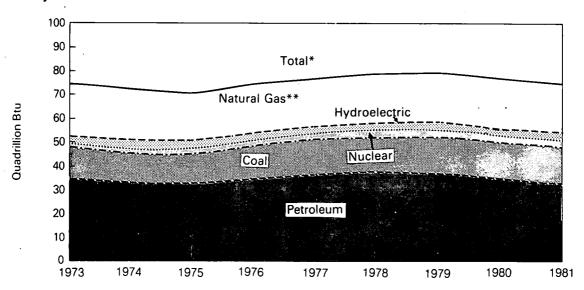
*Includes geothermal power and electricity produced from wood and waste.

R = Revised data.

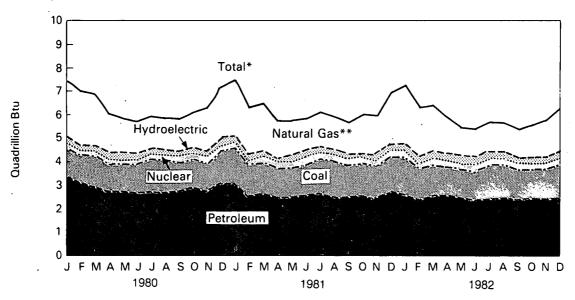
*Source: *Energy Information Administration calculations based on data reported elsewhere in this publication.

Consumption of Energy by Type

Yearly



Monthly



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

Net Imports of Energy by Type¹

		Coal ²	Crude Oll³	Refined Petro- leum Products	Natural Gas (Dry)	Electri- city	Coal Coke	Total Net Imports	Yearly Cumulative Net Imports of Energy
	•	•		Qua	drillion (1015)	Btu			
1973	TOTAL	(1.443)	6.883	6.097	0.981	0.148	(800.0)	12.659	
1974	TOTAL	(1.585)	7.389	5.273	0.907	0.133	0.059	12.175	
1975	TOTAL	(1.766)	8.708	3.800	0.904	0.064	0.014	11.725	
1976	TOTAL	(1.590)	11.221	3.982	0.922	0.089	0.000	14.625	
1977	TOTAL	(1.424)	13.921	4.321	0.981	0.182	0.015	17.995	
1978	TOTAL	(1.024)	13.125	3.932	0.941	0.204	0.131	17.309	
1979	TOTAL	(1.730)	13.328	3.603	1.243	0.211	0.066	16.720	
1980	January	(0.114)	1.096	0.349	0.115	0.018	0.003	1.468	1.468
	February	(0.101)	0.958	0.284	0.105	0.017	(0.001)	1.262	2.731
	March	(0.145)	0.967	0.269	0.106	0.018	(0.003)	1.212	3.943
	April May	(0.196)	0.943 0.861	0.218	0.076	0.018	(0.005)	1.053	4.995
	June	(0.220) (0.230)	0.892	0.214 0.193	0.069 0.059	0.018	(0.006)	0.937	5.933
	July	(0.215)	0.830	0.193	0.059	0.018 0.018	(0.004)	0.928	6.861
	August	(0.238)	0.851	0.199	0.059		(0.004)	0.887	7.748
	September	(0.219)	0.765	0.223	0.056	0.018 0.018	(0.003)	0.890	8.638
	October	(0.244)	0.703	0.235	0.030	0.018	(0.004) (0.006)	0.839	9.477
	November	(0.235)	0.766	0.252	0.072	0.018	(0.000)	0.878 0.885	10.355
	December	(0.214)	0.854	0.272	0.095	0.018	(0.002)	1.025	11.240 12.265
	TOTAL	(2.371)	10.586	2.912	0.957	0.217	(0.037)	12.265	12.205
1981	January	(0.151)	0.828	0.298	0.088	0.020	0.000	1.083	1.083
	February	(0.175)	0.761	0.245	0.082	0.018	(0.001)	0.930	2.013
	March	(0.252)	0.777	0.200	0.077	0.020	(0.003)	0.819	2.832
	April	(0.215)	0.722	0.164	0.065	0.020	(0.001)	0.755	3.587
	May	(0.157)	0.716	0.214	0.059	0.020	0.000	0.853	4.440
	June	(0.158)	0.687	0.185	0.061	0.020	(0.004)	0.791	5.231
	July	(0.281)	0.728	0.214	0.062	0.020	0.000	0.744	5.975
	August	(0.292)	0.716	0.203	0.060	0.020	0.000	0.708	6.683
	September	(0.310)	0.793	0.223	0.062	0.020	(0.002)	0.786	7.469
	October	(0.321)	0.749	0.189	0.076	0.020	(0.003)	0.709	8.179
	November	(0.308)	0.657	0.218	0.079	0.020	0.000	0.666	8.844
	December TOTAL	(0.299) (2.918)	0.711 8.844	0.220 2.573	0.090 0.862	0.020 0.238	(0.003) (0.017)	0.738 9.583	9.583
1982	January	(0.160)	0.614	0.175					0.750
1302	February	(0.100)	0.431	0.175	0.100 0.091	0.020 0.018	0.000	0.750	0.750
	March	(0.273)	0.457	0.184	0.091	0.018	(0.001)	0.503	1.253
	April	(0.283)	0.460	0.164	0.007	0.020	(0.002) (0.001)	0.474	1.727
	May	(0.262)	0.550	0.164	0.066	0.020	(0.001)	0.417 0.536	2.144 2.680
	June	(0.279)	0.643	0.142	0.064	0.020	(0.003)	0.586	3.267
	July	(0.239)	0.724	0.178	0.063	0.020	(0.004)	0.743	4.010
	August	(0.193)	0.634	0.178	0.061	0.020	(0.003)	0.659	4.669
	September	(0.225)	0.596	0.197	0.063	0.020	(0.003)	0.647	5.316
	October	(0.259)	0.607	0.164	0.073	0.020	(0.001)	0.603	5.919
	November	(0.202)	0.628	0.230	0.086	0.020	(0.002)	0.759	6.678
	December	(0.177)	0.500	0.139	0.105	0.020	(0.001)	0.586	7.264
	TOTAL	(2.787)	6.842	2.057	0.936	0.238	(0.023)	7.264	

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

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

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

'Includes bituminous coal, lignite, and anthracite.

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

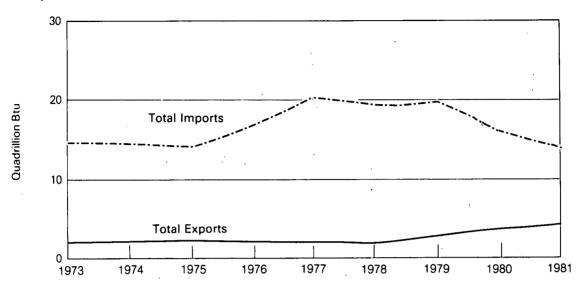
'Includes refined petroleum products, unfinished oils, natural gasoline, and plant condensate.

Source:

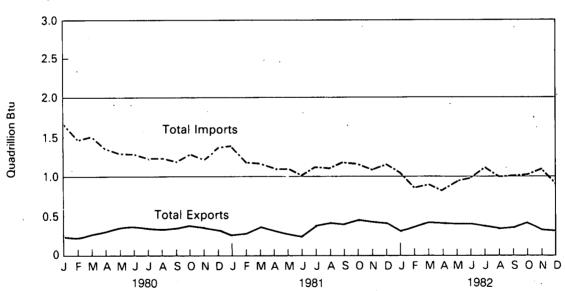
Energy Information Administration calculations based on data reported elsewhere in this publication.

Energy Imports and Exports

Yearly



Monthly



Merchandise Trade Value

	•	Exports				Imports	s .	Trade Balance			
		Energy	All Other	Total	Energy	All Other	Total	Energ	All y Other	Total	
						Million dol	ars	•			
1974	TOTAL	NA	NA	R98,092	NA	NA	R102,559	NA	NA	R-4,467	
1975	TOTAL	4,470	R103,182	R107,652	R28,325	R70,178	R98,503	R-23,855		R+9,149	
1976	TOTAL	4,226	R110,997	R115,223	R36,384	R87,093		R-32,158	-	R-8,254	
1977	TOTAL	4,184	R117,048	R121,232	R47,153	•	R150,390	R-42,969	R+13,811	R-29,158	
1978	TOTAL	R3,882		R143,681	R44,763	R129,994	R174,757	R-40,881	R+9,805	R-31,076	
1979	TOTAL	R5,675		R181,860	R63,077	R146,381	R209,458	•	R+29,804	•	
1980	January	619	R16,800	17,419	7,118	14,024	21,142	-6,499	+2,776	-3,723	
	February	584	16,400	16,984	8,152	R13,627	21,779	-7,568	R+2,773		
	March	636	17,629	18,265	7,564	R13,383	20,947	-7,566 R-6,927		-4,794	
	April	607	17,960	18,567	6,797	12,969			+4,246	-2,682	
	May	660	16,987				19,766	R-6,189	R+4,991	-1,198	
	June			17,647	7,150	13,437	20,587	R-6,491	R + 3,550	-2,941	
		656	17,784	18,440	R7,256	R13,097	20,353	R-6,600	R + 4,687	-1,912	
	July	695	17,572	18,267	5,986	13,153	19,139	R-5,292	+4,419	-872	
	August	702	18,385	19,087	6,461	13,252	19,713	R-5,760	+5,133	-626	
	September	710	R18,118	18,828	6,278	R13,663	19,941	R-5,569	R+4,455	-1,112	
	October	662	R18,555	R19,217	6,601	R13,746	20,347	-5,939	R+4,809	R-1,130	
	November	709	18,006	18,715	6,128	13,732	19,860	-5,419	+4,274	-1,145	
	December	706	18,545	19,251	7,413	14,023	21,436	R-6,708			
	TOTAL	7,982	212,644	220,626	82,924	161,947	244,871		+4,522 R+50,697	-2,185 -24,244	
1981	January	756	18,146	18,902	8,007	14,609	22,616	-7,251	+3,537	-3,714	
	February	999	18,789	19,788	7,939	13,977	21,916	-6,940		•	
	March	939	20,339	21,278	6,471	14,558	21,029		+4,812	-2,127	
	April	738	19,048	19,786				-5,532	+5,781	+249	
	May	593			7,831	14,418	22,249	-7,093	+4,630	-2,463	
			18,306	18,899	6,075	15,157	21,232	-5,482	+3,149	-2,333	
	June	565	19,185	19,750	7,252	14,753	22,005	-6,687	+4,432	-2,255	
	July	847	18,442	19,289	5,687	14,427	20,114	-4,840	+4,015	-825	
	August	884	18,147	19,031	6,876	16,366	23,242	-5,992	R + 1.781	-4,212	
	September	939	18,612	19,551	6,555	14,719	21,274	-5,616	R+3,893	-1,724	
	October	991	18,172	19,163	6,638	16,439	23,077	R-5,648	+1,733	-3,914	
	November	997	18,156	19,153	6,608	15,900	22,508	-5,611	R+2,256	-3,356	
	December	1,067	17,818	18,885	5,422	14,324	19,746	-4,355	+3,494	-861	
	TOTAL	10,279	223,398	233,677	81,360	179,622	260,982	-71,081	+ 43,776	-27,305	
1982	January	1,269	17,468	18,737	7,439	15,390	22,829	-6,170	+2,078	-4,092	
	February	1,493	17,211	18,704	5,107	13,983	19,090	-3,614	H+3,228	-4,092 -387	
	March	1,411	17,191	18,602	5,009	15,340	20,349				
	April	1,183	16,660	17,843				-3,598	+1,851	-1,747	
	May	1,068	17,150	•	4,312	13,075	17,387	-3,129	+3,585	+456	
	June			18,218	4,167	16,391	20,558	R-3,100	+759	-2,340	
		1,005	17,817	18,822	5,427	15,883	21,310	-4,422	+1,934	-2,488	
	July	918	17,109	18,027	5,943	13,616	19,559	-5,025	+3,493	-1,532	
	August	915	16,583	17,498	6,353	17,141	23,494	-5,438	-558	-5,996	
	September	1,055	16,332	17,387	5,201	15,443	20,644	-4,146	+889	-3,257	
	October	1,055	15,643	16,698	R5,947	R15,149	21,096	R-4,892	R+494	-4,398	
	November	772	14,921	15,693	5,037	13,900	18,937	-4,265	+1,021	-3,244	
	December	853	15,482	16,335	5,468	13,397	18,865	-4,615			
	TOTAL	12,729	199,464	212,193	65,409	178,543	243,952	-4,615 - 52,680	+2,086 + 20,921	-2,529 -31.750	
	-	·		,	-5,700	0,040	270,332	-52,000	+ 20,921	-31,759	

Explanation of revisions given on page 20.

Annual totals are unadjusted and may not equal the sum of monthly totals, which are adjusted for seasonal and working-day variation. R=Revised data. NA=Not available.

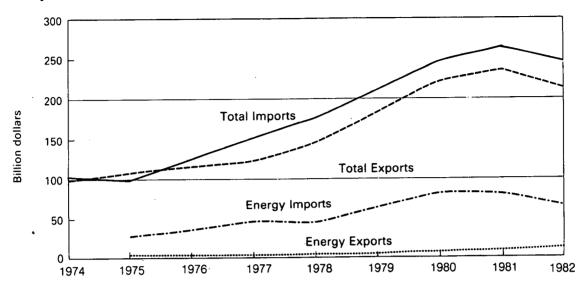
Note: The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. Customs territory (which is comprised of the 50 United States, the District of Columbia, and Puerto Rico) and the Virgin Islands.

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

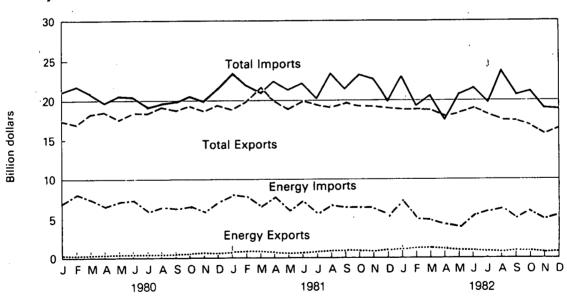
£,

Merchandise Trade Value

Yearly



Monthly

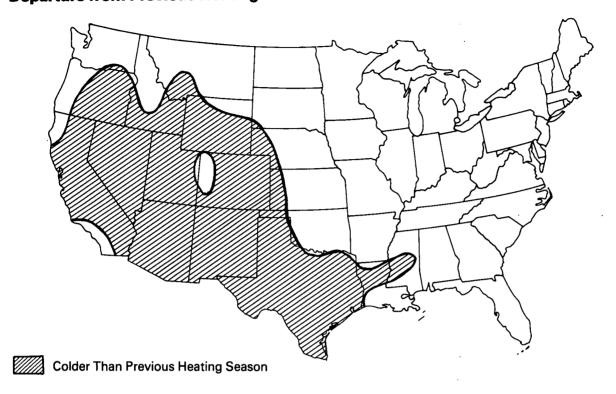


Population Weighted Heating Degree-Days¹

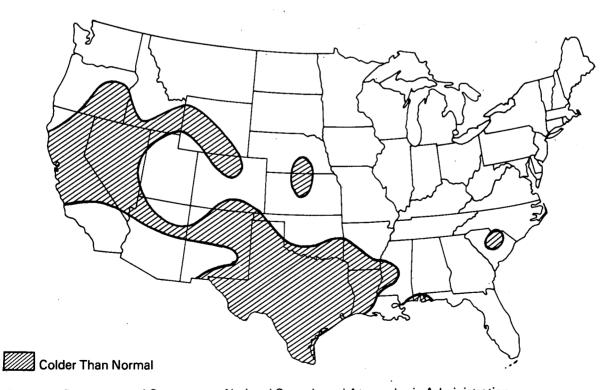
Petroleum Administration	January 3 through January 30						Cumulative July 1 through January 30					
For Defense (PAD) Districts	1983		1982²	Norma	al (1941-70)²	1982-83	1:	981-82	Normal	(1941-70)²		
PAD District I New England Conn., Maine, Mass., N.H., R.I., Vt.	807 1,028	1,014 1,307	(– 20.5) (– 21.3)	818 1,083	(– 1.4) (– 5.1)	2,239 3,061	2,796 3,700	(– 19.9) (– 17.3)	2,500 3,391	(– 10.4) (– 9.7)		
Middle Atlantic Del.; Md., N.J., N.Y., Pa.	930	1,218	(– 23.7)	979	(– 5.1)	2,672	3,346	(-20.1)	2,999	(– 10.9)		
Lower Atlantic Fla., Ga., N.C., S.C., Va., W. Va.	563	638	(– 11.9)	508	(10.8)	1,363	1,736	(– 21.5)	1,510	(-9.7)		
PAD District II III., Ind., Iowa, Kans., Ky., Mich., Minn., Mo., Nebr., N. Dak., Ohio, Okla., S. Dak., Tenn., Wisc.	998	1,332	(– 25.1)	1,101	(-9.3)	3,083	3,763	(– 18.1)	3,445	(– 10.5)		
PAD District III Ala., Ark., La., Miss., N. Mex., Tex.	555	538	(3.2)	516	(7.7)	1,425	1,391	(2.4)	1,421	(0.3)		
PAD District IV Colo., Idaho, Mont., Utah, Wyo.	862	1,086	(– 20.7)	1,071	(– 19.5)	3,615	3,351	(7.9)	3,636	(-0.6)		
PAD District V Ariz., Calif., Nev., Oreg., Wash.	359	477	(– 24.8)	482	(– 25.6)	1,407	1,399	(0.6)	1,602	(– 12.2)		
U.S. AVERAGE	767	972	(-21.1)	823	(-6.8)	2,309	2,718	(- 15.0)	2,550	(-9.4)		

See Note on the last page of this section for explanation of degree-days.
 Percentage change in parentheses.
 Excludes Alaska, Hawaii and the District of Columbia.

Heating Degree-Days Accumulated from July 1, 1982, through January 30, 1983 Departure from Previous Heating Season



Departure from Normal

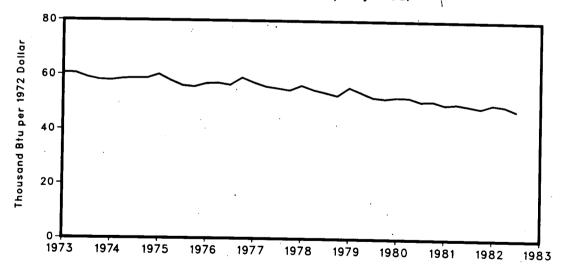


Source: • Department of Commerce—National Oceanic and Atmospheric Administration.

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

	•	Annual Rate	Gross Natio	onal Product	
		of Energy	Current	1972	Energy Consumption
		Consumption	Dollars	Dollars ¹	per GNP Dollar
		Quadrillion Btu	Trillion	Dollars	Thousand Btu per 1972 Dollar
1973		74.609	1.326	1.254	59.5
1974		72.759	1.434	1.246	58.4
1975		70.707	1.549	1.232	57.4
1976		74.510	1.718	1.298	57.4
1977		76.332	1.918	1.370	55.7
1978		78.175	2.164	1.439	54.3
1979		78.910	2.418	1.479	53.4
1980		75.910	2.633	1.474	51.5
1981	1st Qtr ² 2nd Qtr ² 3rd Qtr ²	74.736 75.114 74.464	2.865 2.902 2.981	1.508 1.502 1.510	49.6 50.0 49.3
	4th Qtr ² YEAR	72.306 74.123	3.003 2.938	1.490 1.503	48.5 49.3
1982	1st Qtr ² 2nd Qtr ² 3rd Qtr ² 4th Qtr ² YEAR	R73.442 R72.543 70.520 67.394 70.923	2.996 3.045 3.088 3.101	1.471 1.478 1.481 1.472	49.9 R49.1 47.6 45.8
		70.923	3.058	1.476	48.1

Energy Consumption per GNP Dollar (Seasonally Adjusted)



Geographic coverage: the 50 United States and the District of Columbia.
Yearly data may not equal sum of quarters due to seasonality adjustments and independent rounding.

¹Current dollars are converted to 1972 dollars by the Department of Commerce, Bureau of Economic Analysis.

²Quarterly data are seasonally adjusted and shown at annual rates.

R = Revised data.

Sources: GNP data from U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business.

3rd Qtr

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

Net imports as Percent of **U.S. Petroleum Products Supplied** Net imports² **Domestic** Petroleum from from from from from from Arab OPEC³ All OPEC Arab OPEC³ All OPEC **Products** All ΔII Countries Countries Countries Countries Countries Supplied Countries Percent **ANNUAL RATE** Thousand Barrels per Day 17,308 5.3 17.3 34.8 1973 **AVERAGE** 915 2,991 6.025 16,653 4.5 19.7 35.4 1974 **AVERAGE** 751 3,277 5,891 1,382 3,598 5,847 16.322 8.5 22.0 35.8 1975 **AVERAGE** 7,090 17,461 13.9 29.0 40.6 1976 **AVERAGE** 2,423 5,063 1977 **AVERAGE** 3.184 6.190 8,564 18,431 17.3 33.6 46.5 8,001 18,847 15.7 30.5 42.5 2,962 5,747 1978 **AVERAGE** 3,054 5,632 7,985 18,513 16.5 30.4 43.1 1979 **AVERAGE AVERAGE** 2.549 4.293 6.365 17,056 14.9 25.2 37.3 1980 3,804 5.964 17,113 12.0 22.2 34.9 1981 1st Otr 2,060 15,597 2nd Qtr 1,786 3,117 5,099 11.5 20.0 32.7 3rd Qtr 1.857 3,181 5,400 15.532 12.0 20.5 34.8 16,008 4th Qtr 1,679 3,167 5,151 10.5 19.8 32.2 **AVERAGE** 1,845 3,315 5,401 16,058 11.5 20.6 33.6 1982 1.094 2.361 3.959 15,792 6.9 15.0 25.1 1st Qtr 15,270 2nd Qtr 799 1,894 4,002 5.2 12.4 26.2

4.630

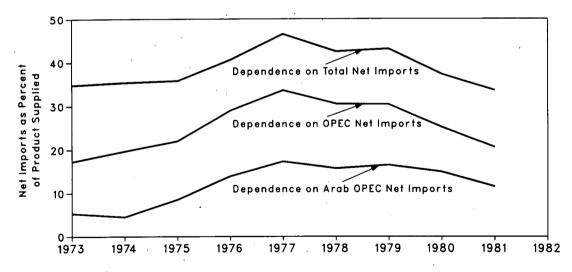
14,842

5.4

U.S. Dependence on Petroleum Net Imports

797

2,196



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

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

31.2

14.8

^{*}Net imports equals imports minus exports. Imports from OPEC countries exclude indirect imports which are refined products imported primarily from Caribbean and West European areas and refined from crude oil produced in OPEC countries.
Includes Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.

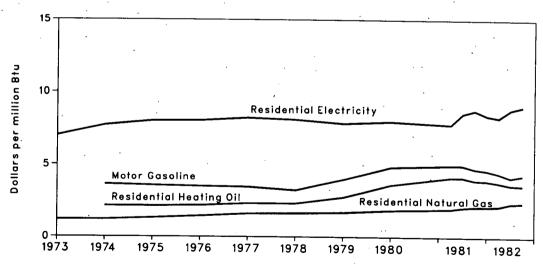
Includes Arab OPEC countries plus Ecuador, Gabon, Indonesia, Iran, Nigeria, and Venezuela.

Sources: See last page of this section.

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

		Leaded Regular Motor Gasoline		Residential Heating Oil		Residential Natural Gas		Residential Electricity	
•		cent/gal	\$/MMBtu	cent/gal	\$/MMBtu	cent/Mcf	\$/MMBtu	cent/kWh	\$/MMBtu
1973	AVERAGE	NA .	NA	NA	NA	121.2	1.19	2.39	7.00
1974	AVERAGE	45.1	3.61	29.4	2.12	121.4	1.19	2.63	7.71
1975	AVERAGE	44.1	3.53	29.3	2.11	132.8	1.30	2.73	8.00
1976	AVERAGE	43.4	3.47	29.8	2.15	145.4	1.43	2.74	8.03
1977	AVERAGE	42.9	3.43	31.8	2.29	162.2	1.59	2.80	8.21
1978	AVERAGE	40.1	3.21	31.7	2.29	164.4	1.62	2.76	8.09
1979	AVERAGE	49.4	3.95	37.8	2.73	171.5	1.68	2.67	7.83
1980	AVERAGE	60.5	4.84	49.7	3.58	186.9	1.83	2.72	7.97
1981	1st Qtr 2nd Qtr 3rd Qtr 4th Qtr AVERAGE	62.1 62.1 59.3 57.9 60.4	4.97 4.97 4.74 4.63 4.83	57.0 57.2 54.4 54.0 55.7	4.11 4.12 3.92 3.89 4.01	197.5 209.1 215.0 216.3 209.7	1.93 2.04 2.10 2.11 2.05	2.65 2.91 2.99 2.87 2.85	7.77 8.53 8.76 8.41 8.35
1982	1st Qtr 2nd Qtr 3rd Qtr	55.4 51.7 53.5	4.43 4.13 4.28	52.2 49.8 49.4	3.76 3.59 3.56	218.3 239.0 242.2	2.13 2.33 2.37	2.82 3.01 3.08	8.26 8.82 9.03

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



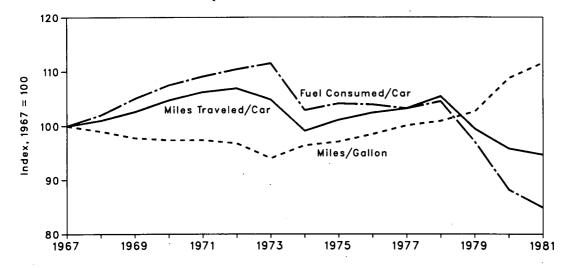
Geographic coverage: the 50 United States and the District of Columbia. NA = Not available.

Sources: • See the last page of this section.

Energy Indicator—U.S. Passenger Car Efficiency

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

U.S. Passenger Car Efficiency Index



Geographic coverage: the 50 United States and District of Columbia. Source: • See the last page of this section.

Notes and Sources for the Executive Summary Section

Notes

- 1. **Domestic Production:** Domestic production of energy includes production of coal (anthracite, bituminous coal, and lignite), crude oil and lease condensate, natural gas plant liquids, natural gas (dry), electric utility and industrial production of hydropower, and electricity generated from nuclear power, geothermal power, and wood and waste. The volumetric data were converted to approximate heat contents (Btu values) of these energy sources using conversion factors listed in Conversion
- 2. **Domestic Consumption:** Domestic consumption of energy includes consumption of coal (anthracite, bituminous coal, and lignite), natural gas (dry), refined petroleum products supplied, electric utility and industrial production of hydropower, net imports of electricity produced from hydropower, net imports of coke made from coal, and electricity generated from nuclear power, geothermal power, and wood and waste. Approximate heat contents (Btu values) were derived using conversion factors listed in Conversion Factors
- 3. **U.S. Energy Imports:** U.S. energy imports include imports of bituminous coal, crude oil (including crude oil imported for the Strategic Petroleum Reserve), refined petroleum products, natural gas (dry), electricity produced from hydropower, and coke
- 4. U.S. Energy Exports: U.S. energy exports include bituminous coal, crude oil, refined petroleum products, natural gas (dry),
- 4. U.S. Energy Exports: U.S. energy exports include bituminous coal, crude oil, refined petroleum products, natural gas (dry), electricity produced from hydropower, and coke made from coal.

 5. Merchandise Trade Value: The U.S. 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 (i.e., the value of imports as appraised by the U.S. Customs Service in accordance with the legal requirements of the Tariff Act of 1930). All other values are on a free alongside ship (f.a.s.) basis. Monthly data are adjusted for seasonal and the Tariff Act of 1930). All other values are on a free alongside ship (f.a.s.) basis. Monthly data are adjusted for seasonal and working-day variation; annual data are unadjusted, and annual totals may not equal sum of monthly totals. Statistics include nonmonetary gold. Statistics exclude Department of Defense Military Program Grant-Aid shipments. "All Other" and "Total" columns include foreign exports (i.e., reexports). The "Energy" columns include mineral fuels, lubricants, and related material. "Imports" represent general imports (i.e., entries for immediate consumption, entries into Customs bonded warehouses, and entries for the Strategic Petroleum Reserve). "Trade Balance" is exports minus imports; a positive balance indicates surplus trade value and a negative balance indicates 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 two degree-day data bases maintained by the National Oceanic and Atmospheric Administration. Weekly degree-

day information is based on mean daily temperatures recorded at about 200 major weather stations around the country. Monthly data are based on readings at more than 8,000 weather stations. The temperature information recorded at these weather stations is used to calculate statewide degree-day averages based on population. The State figures are then aggregated into Petroleum Administration for Defense (PAD) Districts and into the national average, also using a population weighting method. The population weights reflect resident state population data estimated as of July 1, 1981, by the U.S. Department of Commerce, Bureau of the Census.

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

Sources

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

- 1981 forward: U.S. Department of Commerce, Bureau of the Census, "Summary of U.S. Export and Import Merchandise Trade," most recent monthly issue.

 Gross National Product: U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business.

 U.S. Dependence on Petroleum Net Imports: Imports and products supplied—Part 3 of this publication.

 Exports—1973 through 1976: Bureau of Mines, Mineral Industry Surveys; 1977 through 1981: Energy Information Administration (EIA), Energy Data Reports, "Petroleum Statement, Annual;" 1982 forward: EIA, Petroleum Statement, Monthly.

 Cost of Fuels to End Users in Constant (1972) Dollars: Motor gasoline—Bureau of Labor Statistics.

 Heating Oil—Energy Information Administration (EIA), 1974 and 1975: Form CLC-92, "No. 2 Heating Oil Monthly Price Adjustment Report"; 1976 forward: FEA Form P112-M-1 and EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report."

 Natural gas—1973 through 1980 annual numbers: Bureau of Mines and Energy Information Administration, Form 1340-A, "Supply and Disposition of Natural Gas to Producers and Pipelines"; 1980 and 1981 quarterly numbers and 1981 annual numbers: Bureau of Labor Statistics.

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

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

Explanation of Revisions to the Merchandise Trade Value Table

This table has been revised to include trade data for the Virgin Islands in all years shown. In previous versions of the table, inclusion of the Virgin Islands data was inconsistent: from 1973 through 1979, the Virgin Islands data were not included; in 1980, the Virgin Islands data were included only in the total exports column and the three imports columns; from January 1981 forward, the Virgin Islands data were included in all columns. With the revisions shown above, this table includes the Virgin Islands data in all periods.

Energy Consumption

Preliminary data indicate that total U.S. energy consumption in 1982 dropped to 70.9 quadrillion Btu, 4.3 percent below 1981 and 6.6 percent below 1980 consumption.

The residential and commercial sector consumption was 26.3 quadrillion Btu in 1982, 2.4 percent more than the amount consumed last year and 1.6 percent above the 1980 level. The residential and commercial sector consumed 37.1 percent of the total consumption for 1982, up from the sector's 34.6-percent share in 1981.

The industrial sector consumption was 25.9 quadrillion Btu in 1982, down 11.2 percent from 1981, and down 14.6 percent from the consumption level in 1980. The industrial sector consumed 36.6 percent of the 1982 total, down from the sector's 39.4-percent share in 1981.

The transportation sector consumption was 18.6 quadrillion Btu in 1982, down 3.2 percent from 1981, and down 5.3 percent from the consumption level in 1980. This sector consumed 26.3 percent of the 1982 total, as compared to the sector's 26.0-percent share in 1981.

The electric utilities consumption was an estimated 24.4 quadrillion Btu of energy in 1982, 1.1 percent lower than in the previous year and 0.2 percent lower than the energy consumed in 1980. Coal contributed 52.0 percent of the energy consumed by electric utilities in 1982, while hydroelectric power contributed 14.1 percent; natural gas, 13.7 percent; nuclear power, 12.3 percent; petroleum, 7.4 percent; and geothermal and wood and waste, 0.5 percent.

Energy Consumption Summary for January through December 1982* (Quadrillion (1015) Btu)

Primary Energy Source	Residential and Commercial	industrial	Transportation	Electric Utilities	TOTAL
Coal	0.203	2.683	0.000	12.697	15.655
Natural Gas (dry)	7.476	6.885	0.604	3.336	18.305
Petroleum	2.966	7.621	17.996	1.817	30.400
Hydroelectric	0.000	0.033	0.000	3.429	3.462
Nuclear	0.000	0.000	0.000	3.013	3.013
Net Coke Imports	0.000	(0.023)	0.000	0.000	(0.023)
Other	0.000	0.000	0.000	0.111	0.111
					
TOTAL PRIMARY ENERGY	10.645	17.199	18.600	24.403	70.923
Electricity Sales	4.563	2.545	0.012	(7.120)	
Net Energy Consumption	15.208	19.744	18.612		53.564
Electrical Energy Losses	11.070	6.183	0.030	(17.283)	17.283
TOTAL ENERGY CONSUMED	26.278	25.927	18.642		70.923

^{*}Preliminary data.

Notes and sources for this table and all other tables in this section are provided on the last page of this section.

Energy consumption summaries for the months of November and December are on page 28.

Consumption

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

Consumption of Energy by End-Use Sector

		Residential and Commercial	Industrial	Transportation	Total Energy Consumed
			Quadrillio	n (10 ¹⁵) Btu	
1973	TOTAL	24.197	31.886	18.520	74.609
1974	TOTAL	23.774	30.943	18.035	72.759
1975	TOTAL	23.920	28.608	18.177	70.707
1976	TOTAL	25.004	30.435	19.064	74.510
1977	TOTAL	25.405	31.186	19.736	76.332
1978	TOTAL	25.990	31.570	20.614	
1979	TOTAL	26.073	32.399		78.175
				20.434	78.910
1980	January	2.812	2.844	1.747	7.400
	February	2.758	2.528	1.674	6.959
	March	2.570	2.584	1.694	6.845
	April	2.028	2.332	1.630	5.983
	May	1.761	2.460	1.618	5.833
	June	1.759	2.371	1.560	5.690
	July	1.965	2.343	1.624	5.940
	August	1.943	2.332	1.588	5.870
	September	1.809	2.415		
	,			1.562	5.790
	October	1.806	2.677	1.663	6.146
	November	2.024	2.670	1.559	6.253
	December	2.636	2.804	1.761	7.202
	TOTAL	25.869	30.360	19.680	75.910
1981	January	3.080	2.609	1.783	7.474
	February	2.644	2.184	1.514	6.342
	March	2.386	2.449	1.616	6.452
	April	1.913	2.265	1.544	5.719
	May	1.779	2.425		
	•			1.569	5.774
	June	1.821	2.386	1.616	5.828
	July	R1.963	R2.435	R1.633	6.036
	August	1.914	2.431	1.587	5.935
	September	1.732	2.378	1.552	5.661
	October	1.821	2.555	1.607	5.983
	November	R2.000	R2.448	1.539	5.986
	December	2.606	2.627	1.697	6.933
	TOTAL	R25.659	R29.192	R19.259	74.123
1982	January	3,204	2.420	1.601	7.231
	February	2.812	2.021	1.460	6.297
	March	2.506	2.230	1.634	
	April	2.163	. 2.078		6.374
				1.627	5.870
	May	1.793	2.080	1.569	5.446
	June	1.766	2.096	1.541	5.410
	July	1.963	2.141	1.557	5.673
	August	1.947	2.138	1.547	5.643
	September	1.798	2.063	1.507	5.376
	October	R1.786	R2.226	R1.532	R5.549
	November	2.051	2.193	1.525	5.776
	December	2.489	2.239	1.542	6.277
	TOTAL	26.278	25.927	18.642	70.923

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

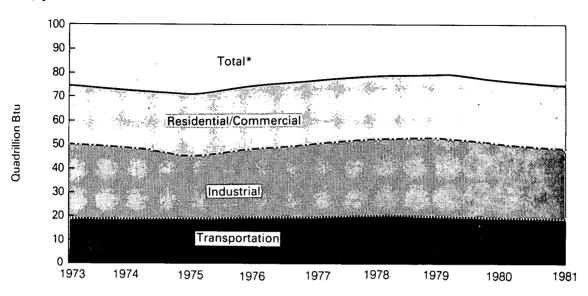
Totals may not equal sum of components due to independent rounding and the use of preliminary conversion factors after 1980.

R=Revised data.

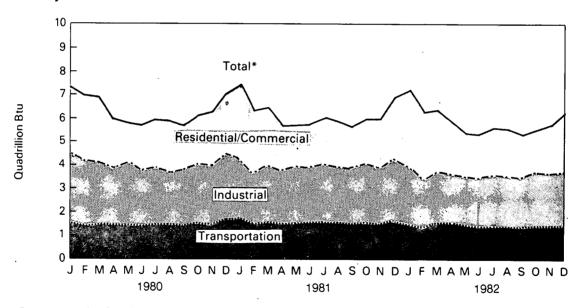
Notes and Sources: • See the last two pages of this section.

Consumption of Energy by End-Use Sector

Yearly



Monthly



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

Consumption of Energy by the Residential and Commercial Sector

		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Quadrillion (10	15) Btu		
1973	TOTAL	0.291	7.626	4.321	3.495	8.464	24.197	
1974	TOTAL	0.292	7.518	3.932	. 3.475	8.558	23.774	
1975	TOTAL	0.238	7.581	3.760	3.604	8.736	23.920	
1976	TOTAL	0.227	7.866	4.160	3.747	9.005	25.004	
1977	TOTAL	0.225	7.461	4.148	3.955	9.615	25.405	
1978	TOTAL	0.239	7.624	4.062	4.116	9.950	25.990	
1979	TOTAL	0.210	7.891	3.687	4.184	10.101	26.073	
1980	January	0.021	1.104	0.358	0.381	0.947	2.812	2.812
	February	0.019	1.182	0.329	0.375	0.853	2.758	5.569
	March	0.013	1.041	0.300	0.358	0.857	2.570	8.139
	April	0.014	0.707	0.245	0.319	0.742	2.028	10.167
	May	0.009	0.444	0.238	0.298	0.772	1.761	11.927
	June	0.007	0.322	0.224	0.334	0.872	1.759	13.686
	July	0.008	0.254	0.225	0.410	1.068	1.965	15.652
	August	0.008	0.236	0.221	0.439	1.039	1.943	17.594
	September	0.011	0.247	0.246	0.410	0.895	1.809	19.403
	October	0.014	0.362	0.279	0.343	0.808	1.806	21.209
	November	0.015	0.631	0.271	0.322	0.785	2.024	23.233
	December	0.020	1.010	0.343	0.364	0.899	2.636	25.869
	TOTAL	0.160	7.539	3.280	4.355	10.536	25.869	
1981	January	0.022	1.267	0.374	0.425	0.992	3.080	3.080
	February	0.018	1.121	0.287	0.391	0.828	2.644	5.724
	March	0.012	0.910	0.271	0.355	0.839	2.386	8.110
	April	0.014	0.590	0.229	0.325	0.755	1.913	10.023
	May	0.012	0.421	0.227	0.321	0.798	1.779	11.802
	June	0.007	0.291	0.228	0.365	0.929	1.821	13.623
	July	0.011	0.241	0.227	0.429	R1.055	R1.963	R15.586
	August	0.011	0.236	0.223	0.430	1.013	1.914	17.500
	September	0.014	0.246	0.233	0.392	0.847	1.732	R19.232
	October	0.015	0.389	0.264	0.348	• 0.805	1.821	
	November	0.013	0.583	0.259	R0.336	R0.802	R2.000	R21.053
	December	0.026	0.941	0.300	0.368	0.970	2.606	R23.053 R25.659
	TOTAL	0.183	7.235	3.122	R4.485	R10.634	R25.659	M20.009
1982	January	0.024	1.357	0.318	0.439	1.065	3.204	3.204
1502	February	0.024	1.234	0.271	0.408	0.882	2.812	6.016
	March	0.017	0.954	0.266	0.406	0.862	2.506	8.522
	April	0.013	0.554	0.263	0.372	0.822		
	May	0.017	0.715	0.231	0.346	0.839	2.163	10.685
							1.793	12.478
	June	0.009 0.016	0.284	0.217	0.357	0.900	1.766	14.244
	July		0.250	0.212	0.412	1.074	1.963	16.207
	August	0.017	0.239	0.215	0.430	1.047	1.947	18.154
	September	0.016	0.248	0.229	0.403	0.902	1.798	19.952
	October	0.017	0.345	0.241	0.349	0.833	R1.786	R21.738
	November	0.021	0.606	0.236	0.340	0.849	2.051	23.789
	December	0.027	0.860	0.268	0.378	0.956	2.489	26.278
	TOTAL	0.203	7.476	2.966	4.563	11.070	26.278	

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

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





Consumption of Energy by the Industrial Sector

		Coal	Natural Gas (Dry)	Petro- leum	Hydro- electric	Net Coke Imports	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Q	uadrillion (10)15) Btu			
1973	TOTAL	4.349	10.388	9.103	0.035	(0.008)	2.341	5.679	31.886	
1974	TOTAL	4.048	10.003	8.707	0.033	0.059	2.337	5.756	30.943	
1975	TOTAL	3.797	8.532	8.192	0.032	0.014	2.346	5.694	28.608	
1976	TOTAL	3.786	8.761	9.092	0.033	0.000	2.573	6.189	30.435	
1977	TOTAL	3.498	8.636	9.789	0.033	0.015	2.682	6.533	31.186	
1978	TOTAL	3.372	8.539	10.046	0.032	0.131	2.761	6.691	31.570	
1979	TOTAL	3.636	8.549	10.294	0.034	0.066	2.873	6.948	32.399	
1980	January	0.308	0.832	0.895	0.003	0.003	0.230	0.572	2.844	2.844
	February	0.286	0.677	0.798	0.003	(0.001)	0.234	0.532	2.528	5.372
	March	0.291	0.704	0.790	0.003	(0.003)	0.236	0.564	2.584	7.956
	April	0.285	0.552	0.726	0.003	(0.005)	0.232	0.539	2.332	10.287
	May	0.276	0.612	0.750	0.003	(0.006)	0.229	0.594	2.460	12.747
	June	0.250	0.578	0.721	0.003	(0.004)	0.228	0.595	2.371	15.118
	July	0.229	0.600	. 0.710	0.003	(0.004)	0.224	0.583	2.343	17.461
	August	0.231	0.620	0.708	0.002	(0.003)	0.230	0.544	2.332	19.794
	September	0.225	0.676	0.762	0.002	(0.004)	0.237	0.517	2.415	22.208
	October	0.253	0.837	0.796	0.002	(0.006)	0.237	0.558	2.677	24.886
	November	0.263	0.853	0.761	0.002	(0.002)	0.231	0.563	2.670	27.556
	December	0.286	0.853	0.854	0.002	(0.001)	0.234	0.577	2.804	30.360
	TOTAL	3.181	8.394	9.272	0.033	(0.037)	2.781	6.736	30.360	30.300
1981	January	0.301	0.753	0.790	0.003	0.000	0.229	0.534	2.609	2.609
	February	0.278	0.524	0.662	0.003	(0.001)	0.230	0.488	2.184	4.793
	March	0.280	0.691	0.690	0.003	(0.003)	0.234	0.554	2.449	7.242
	April	0.261	0.589	0.640	0.003	(0.001)	0.232	0.541	2.265	9.507
	May	0.239	0.667	0.698	0.003	0.000	0.234	0.582	2.425	11.932
	June	0.233	0.616	0.671	0.003	(0.004)	0.244	0.623	2.386	14.318
	July	0.271	0.640	0.674	0.003	0.000	0.245	R0.601	R2.435	
	•	0.274	0.667	0.662	0.003					R16.753
	August					0.000	0.246	0.578	2.431	19.184
	September	0.267	0.675	0.670	0.002	(0.002)	0.242	0.523	2.378	21.562
	October	0.269	0.805	0.699	0.002	(0.003)	0.236	0.547	2.555	R24.117
	November	0.271	0.755	0.655	0.002	0.000	0.226	R0.538	R2.448	R26.565
	December	0.272	0.870	0.691	0.002	(0.003)	0.219	0.576	2.627	R29.192
	TOTAL	3.217	8.252	8.203	0.033	(0.017)	2.817	R6.686	R29.192	
1982	January	0.274	0.743	0.666	0.003	0.000	0.215	0.520	2.420	2.420
	February	0.255	0.488	0.599	0.003	(0.001)	0.214	0.463	2.021	4.442
	March	0.246	0.598	0.633	0.003	(0.002)	0.220	0.532	2.230	6.672
	April	0.228	0.490	0.635	0.003	(0.001)	0.214	0.508	2.078	8.750
	May	0.220	0.478	0.621	0.003	(0.003)	0.213	0.547	2.080	10.830
	June	0.205	0.524	0.604	0.003	(0.004)	0.217	0.547	2.096	12.926
	July	0.200	0.520	0.650	0.003	(0.003)	0.214	0.558	2.141	15.067
	August	0.202	0.533	0.661	0.002	(0.001)	0.216	0.525	2.138	17.205
	September	0.193	0.581	0.627	0.002	(0.001)	0.205	0.458	2.063	19.269
	October	0.207	R0.660	0.655	0.002	(0.003)	0.208	R0.496	R2.226	R21.495
	November	0.214	0.637	0.617	0.002	(0.001)	0.208	0.517		
	December	0.240	0.631	0.652	0.002				2.193	23.688
						(0.001)	0.203	0.512	2.239	25.927
	TOTAL	2.683	6.885	7.621	0.033	(0.023)	2.545	6.183	25.927	

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

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

Consumption of Energy by the Transportation Sector

٠		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
				Qua	drillion (1015) Btu			
1973	TOTAL	0.003	0.743	17.745	0.009	0.021	18.520	
1974	TOTAL	0.002	0.685	17.317	0.009	0.022	18.035	
1975	TOTAL	0.001	0.595	17.547	0.010	0.025	18.177	
1976	TOTAL	(1)	0.559	18.469	0.010	0.025	19.064	
1977	TOTAL	(1)	0.543	19.157	0.010	0.025	19.736	
1978	TOTAL	(1)	0.539	20.044	0.009	0.022	20.614	
1979	TOTAL	(1)	0.612	19.786	0.010	0.025	20.434	
1980	January	(¹)	0.073	1.671	0.001	0.002	1.747	1.747
	February	(¹)	0.070	1.602	0.001	0.002	1.674	3.422
	March	(1)	0.068	1.623	0.001	0.002	1.694	5.115
	April	(¹)	0.050	1.578	0.001	0.002	1.630	6.746
	Мау	(1)	0.044	. 1.571	0.001	0.002	1.618	8.364
	June	(1)	0.041	1.516	0.001	0.002	1.560	9.924
	July	(1)	0.042	1.579	0.001	0.002	1.624	11.548
	August	(1)	0.042	1.543	0.001	0.002	1.588	13.136
	September	. (1)	0.042	1.517	0.001	0.002	1.562	14.698
	October	(1)	0.050	1.610	0.001	0.002	1.663	16.361
	November	(1)	0.057	1.498	0.001	0.002	1.559	17.920
	December	(1)	0.070	1.688	0.001	0.002	1.761	19.680
	TOTAL	(¹)	0.648	18.996	0.011	0.026	19.680	
1981	January	(1)	0.077	1.703	0.001	0.003	1.783	1.783
	February	(¹)	0.065	1.446	0.001	0.002	1.514	3.298
	March	(¹)	0.065	1.548	0.001	0.002	1.616	4.914
	April	(¹)	0.050	1.491	0.001	0.002	1.544	6.458
	May	(¹)	0.048	1.517	0.001	0.002	1.569	8.027
	June	(¹)	0.044	1.569	0.001	0.002	1.616	9.643
	July	(¹)	0.045	R1.585	0.001	0.002	R1.633	9.043 R11.277
	August	(¹)	0.044	1.540	0.001	0.002	1.587	
	September	(¹)	0.043	1.505	0.001			R12.864
	October	(¹)	0.043	1.552	0.001	0.002 0.002	1.552	R14.416
	November	(¹)	0.055	1.481	0.001		1.607	R16.022
	December	(¹)	0.033	1.623	0.001	0.002 0.003	1.539 1.697	R17.562
	TOTAL	· (a)	0.657	R18.561	0.001	R0.029	R19.259	R19.259
1982	January	(1)	0.080	1.517	0.001	0.003	1.601	1.601
1002	February	(¹)	0.067	1.390	0.001	0.003	1.460	
	March	(¹)	0.061	1.569	0.001			3.060
	April		0.050			0.003	1.634	4.694
		(1)		1.574	0.001	0.002	1.627	6.321
	May	(1)	0.039	1.527	0.001	0.003	1.569	7.891
	June	(1)	0.038	1.500	0.001	0.002	1.541	9.432
	July	(¹)	0.039	1.514	0.001	0.003	1.557	10.988
	August	(¹)	0.039	1.505	0.001	0.002	1.547	12.535
	September	(¹)	0.039	1.465	0.001	0.002	1.507	14.042
	October	(1)	R0.044	1.485	0.001	0.002	R1.532	R15.574
	November	(1)	0.050	1.472	0.001	0.003	1.525	17.099
	December	(¹)	0.058	1.480	0.001	0.003	1.542	18.642
	TOTAL	(1)	0.604	17.996	0.012	0.030	18.642	

Geographic coverage: the 50 United States and the District of Columbia. Totals may not equal sum of components due to independent rounding.
¹Since 1976, the amount of coal consumed by the transportation sector has been negligible.
R=Revised data.

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



Energy Input at Electric Utilities

		Coal	Natural Gas (Dry)	Petro- leum¹	Hydro- electric power²	Nuclear Electric Power	Other ³	Total Energy Input	Yearly Cumulative Energy Input
					Quadrillion (10 ¹⁵) Btu			
1973	TOTAL	8.658	3.748	3.671	2.975	0.910	0.046	20.008	
1974	TOTAL	8.535	3.519	3.499	3.276	1.272	0.056	20.156	
1975	TOTAL	8.786	3.240	3.231	3.187	1.900	0.072	20.416	•
	TOTAL	9.720	3.152	3.454	3.032	2.111	0.081	21.549	
1977	TOTAL	10.243	3.284	4.028	2.482	2.702	0.082	22.821	
1978	TOTAL	10.236	3.297	3.813	3.110	3.024	0.068	23.548	
1979	TOTAL	11.264	3.609	3.357	3.107	2.715	0.089	24.141	
1980	January	1.073	0.286	0.277	0.280	0.210	0.008	2.134	2.134
	February	1.012	0.273	0.261	0.238	0.205	0.008	1.997	4.131
	March	0.994	0.294	0.238	0.270	0.213	0.008	2.017	6.148
	April	0.866	0.265	0.210	0.284	0.200	0.008	1.835	7.983
	May	0.883	0.291	0.199	0.317	0.196	0.010	1.896	9.879
	June	0.976	0.348	0.199	0.304	0.195	0.009	2.031	11.910
	July	1.143	0.435	0.204	0.272	0.224	0.010	2.287	14.197
	August	1.133	0.433	0.203	0.230	0.259	0.010	2.255	16.452
	•	1.020			0.209	0.259	0.011	2.255	18.515
	September		0.369	0.203					
	October	0.960	0.312	0.201	0.203	0.261	0.011	1.948	20.463
	November	0.973	0.264	0.215	0.217	0.223	0.011	1.903	22.366
	December	1.089	0.250	0.243	0.249	0.235	0.011	2.077	24.444
	TOTAL	12.122	3.807	2.654	3.074	2.672	0.114	24.444	
1981	January	1.165	0.239	0.264	0.252	0.253	0.011	2.184	2.184
	February	1.020	0.232	0.211	0.237	0.230	0.010	1.940	4.123
	March	1.031	0.283	0.192	0.233	0.234	0.011	1.984	6.108
	April	0.930	0.299	0.163	0.234	0.220	0.010	1.857	7.964
	May	0.958	0.327	0.165	0.270	0.210	0.010	1.939	9.904
	June	1.066	0.394	0.177	0.293	0.225	0.010	2.165	12.069
•	July	1.196	0.425	R0.177	0.280	0.246	0.011	R2.334	R14.403
	August	1.160	0.403	0.167	0.244	0.287	0.011	2.271	R16.674
	September	1.032	0.336	0.165	0.204	0.260	0.011	2.008	R18.682
	October	1.018	0.312	0.172	0.208	0.219	0.011	1.939	R20.621
	November	1.001	0.268	0.169	0.216	0.242	0.011	1.905	R22.526
	December	1.131	0.248	0.205	0.210	0.242	0.010	2.137	R24.663
	TOTAL	12.707	3.764	R2.226	2.937	2.901	0.010	R24.663	H24.003
1982	January	1.220	0.246	0.198	0.299	0.273	0.009	2.244	0.044
1902									2.244
	February	1.041	0.228	0.185	0.295	0.215	0.008	1.971	4.215
	March	1.020	0.255	0.174	0.330	0.242	0.007	2.027	6.242
	April	0.926	0.255	0.166	0.309	0.232	0.007	1.894	8.136
	May	0.971	0.267	0.142	0.311	0.230	0.008	1.929	10.066
	June	1.010	0.306	0.134	0.310	0.256	0.010	2.025	12.090
	July	1.178	0.365	0.133	0.304	0.271	0.010	2.261	14.352
	August	1.166	0.374	0.140	0.268	0.264	0.010	2.222	16.573
	September	1.031	0.303	0.132	0.226	0.270	0.010	1.971	18.544
	October	0.987	0.283	R0.137	0.225	0.247	0.011	1.889	20.433
	November	1.018	0.234	0.146	0.261	0.247	0.011	1.917	22.350
	December	1.131	0.222	0.129	0.294	0.265	0.012	2.053	24.403
	TOTAL	12.697	3.336	1.817	3.429	3.013	0.111	24.403	2 7.700

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

Based on deliveries to utilities.
Includes net imports of electricity.
Includes geothermal power and electricity produced from wood and waste.
R=Revised data.
Notes and Sources: • See the last two pages of this section.

Energy Consumption Summary for November 1982 (Quadrillion (1015) Btu)

Primary Energy Source	Residential and Commercial	Industrial	Transportation	Electric Utilities	TOTAL
Coal	0.021	0.214	0.000	1.018	1.258
Natural Gas (dry)	0.606	0.637	0.050	0.234	1.528
Petroleum	0.236	0.617	1.472	0.146	2.471
Hydroelectric	0.000	0.002	0.000	0.261	0.263
Nuclear	0.000	0.000	0.000	0.247	0.247
Net Coke Imports	0.000	(0.002)	0.000	· 0.000	(0.002)
Other	0.000	0.000	0.000	0.011	.0.011
					
TOTAL PRIMARY ENERGY	0.863	1.469	1.522	1.917	5.776
Electricity Sales	0.340	0.207	0.001	(0.548)	
					
Net Energy Consumption	1.202	1.676	1.523		4.407
Electrical Energy Losses	0.849	0.517	0.003	(1.369)	1.369
TOTAL ENERGY CONSUMED	2.051	2.193	1.525		5.776

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

Notes and sources for this table and all other tables in this section are provided on the next page.

Energy Consumption Summary for December 1982* (Quadrillion (1015) Btu)

Sector

Primary Energy Source	Residential and Commercial	Industrial	Transportation	Electric Utilities	TOTAL
Coal	0.027	0.240	0.000	1.131	1.402
Natural Gas (dry)	0.860	0.631	0.058	0.222	1.773
Petroleum	0.268	0.652	1.480	0.129	2.530
Hydroelectric	0.000	0.002	0.000	0.294	0.297
Nuclear	0.000	0.000	0.000	0.265	0.265
Net Coke Imports	0.000	(0.001)	0.000	0.000	(0.001)
Other	0.000	0.000	0.000	0.012	0.012
•					
TOTAL PRIMARY ENERGY	1.155	1.524	1.539	2.053	6.277
Electricity Sales	0.378	0.203	0.001	(0.582)	
Net Energy Consumption	1.533	1.727	1.540		4.807
Electrical Energy Losses	0.956	0.512	0.003	(1.471)	1.471
TOTAL ENERGY CONSUMED	2.489	2.239	1.542		6.277

^{*}Preliminary data.

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

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

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

 Residential and commercial sector Energy consumed by private household establishments primarily for space heating, water heating, air conditioning, cooking, and clothes drying; by non-manufacturing business establishments, including motels, restaurants, wholesale businesses, retail stores, laundries, and other service enterprises; by health, social, and

 educational institutions; and by federal, state, and local governments.
 - · Industrial sector-Energy consumed by manufacturing, construction, mining, agriculture, fishing, and forestry establish-
 - 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 which generate electricity primarily for resale.
- 2. Conversion Factors: See the inside back cover of this publication for factors applied in converting physical unit data into British thermal units (Btu)
- 3. Coal: Coal is anthracite, bituminous coal, and lignite.

 Sources: Anthracite—1973 through 1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Minerals Yearbook, 'Coal - Pennsylvania Anthracite, Annual.'

1977 forward: U.S. Department of Energy (DOE), Energy Information Administration (EIA), Energy Data Reports "Weekly Coal Report."

 Bituminous coal and lignite – 1973 through 1975: U.S. DOI, BOM, Minerals Yearbook, "Bituminous Coal and Lignite, Annual," Federal Power Commission (FPC), Form 4, "Monthly Power Plant Report." 1976 forward: DOE, EIA, *Energy Data Reports*, "Weekly Coal Report."

Electric Utilities consumption of coal—same as Note 7 below.

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

Sources: • 1973 through 1975: DOI, BOM, Minerals Yearbook, "Natural Gas" chapter.
• 1976 through 1978: DOE, EIA, Energy Data Reports, "Natural Gas, Annual."
• 1979: DOE, EIA, Natural Gas Production and Consumption 1979.
• 1980: DOE, EIA, Natural Gas Annual.

1981 forward: EIA estimates based on a supply/disposition balance calculation.
 Electric utilities consumption – 1973 through 1976: FPC Form 4, "Monthly Power Plant Report."
 1977 through 1981: DOE, EIA, FPC Form 4, "Monthly Power Plant Report."
 1982 forward: DOE, EIA, EIA Form 759, "Monthly Power Plant Report."

American Gas Association, "Monthly Gas Utility Statistical Report."

5. Petroleum: Petroleum consumption by end-use is the sum of all individual petroleum products consumed in each end-use sector. First, total consumption by product is determined. Petroleum consumption in this section of the Monthly Energy Review uses the series called products supplied" in the Petroleum Section.

Sources for petroleum products supplied by individual products are:

- 1973 through 1975: DOI, BOM, Mineral Industry Surveys, "Petroleum Statement, Annual." 1976 through 1980: DOE, EIA, Energy Data Reports, "Petroleum Statement, Annual."

1981: DOE, EIA, Petroleum Supply Annual.
 1982: DOE, EIA, Petroleum Supply Monthly.

Notes regarding specific petroleum products' end-use allocations follow:

- Aviation gasoline All product supplied is assigned to the transportation sector.
- Asphalt All product supplied is assigned to the industrial sector.
- Distillate fuel Total product supplied is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports as follows:
 - Residential deliveries are presented for 1979 and 1980. Prior to 1979, each year's subtotal of heating plus industrial is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares; Commercial deliveries are presented for 1979 and 1980. Prior to 1979, each year's subtotal of heating plus industrial is

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

- -Industrial sector deliveries for 1979 and 1980 are the sum of deliveries for industrial, farm, oil company, off-highway diesel, and all other uses. Prior to 1979, each year's heating plus industrial subtotal 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;
- Transportation deliveries are the sum of railroad, vessel bunkering, on-highway diesel, and military uses for all years; and Electric utility deliveries are presented for all years.

The 1980 shares are used as estimates for succeeding periods until deliveries for more recent periods are available.

- Jet fuel Small amounts in 1975 through 1977 are used by the industrial sector, and small amounts in all periods are consumed by the electric utility sector. All remaining jet fuel is consumed by the transportation sector.
- Kerosene Total product supplied is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports as follows:
 - Residential deliveries are presented for 1979 and 1980. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares;
 - Commercial deliveries are presented for 1979 and 1980. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares; and
 - Industrial sector deliveries for 1979 and 1980 are the sum of deliveries for industrial, farm, and all other uses. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares, and this estimated industrial portion is added to all other uses.

The 1980 shares are used as estimates for succeeding periods until deliveries for more recent periods are available.

Notes and Sources for the Consumption Section (continued)

5. Petroleum (continued):

 Liquefied petroleum gases (LPG) — Total product supplied is allocated to the major end-use sectors in proportion to aggregations of sales categories formed from EIA's "Sales of Liquefied Petroleum Gases and Ethane." Year-specific categorizations are developed for 1973 through 1978 but, due to potential discontinuities with the sales data from the sales reports after 1978, the 1978 sales aggregations are continued for all following periods. Sales categories are formed as follows:

-Residential and commercial sales represent the residential and commercial sector;

-Industrial sales are the sum of industrial use, miscellaneous use, utility gas company use, chemical plant use, and an estimated 84 percent of the internal combustion engine fuel use; and

Transportation sales are estimated to be the remaining 16 percent of sales for internal combustion engine fuel use.

- · Lubricants Total product supplied is allocated to the industrial sector and the transportation sector 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
- Motor gasoline Total product supplied is allocated to the major end-use sectors in proportion to aggregations of 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 accounted for in the transportation sector of distillate fuel) and sales for marine use.

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

Residual fuel—Total product supplied is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports as follows:

 Commercial deliveries are presented for 1979 and 1980. Prior to 1979, each year's subtotal of heating plus industrial is

split into commercial and industrial in proportion to the 1979 shares;

-Industrial sector deliveries for 1979 and 1980 are the sum of industrial, oil company, and all other uses. Prior to 1979, each year's heating plus industrial subtotal 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;

Transportation deliveries are the sum of railroad, vessel bunkering, and military uses for all years; and

- Electric utility deliveries are presented for all years.

The 1980 shares are used as estimates for succeeding periods until deliveries for more recent periods are developed.

Road oil — All product supplied assigned to the industrial sector.

- · All Other Petroleum Products The product supplied of all remaining petroleum products is assigned to the industrial sec-
- 6. Hydroelectric: Includes electricity generated by hydropower at electric utilities, small amounts in the industrial sector, and net imports electricity, which are assumed to be generated by hydropower and are included in the hydroelectricity in the electric utilities sector. Sources for electric utilities sector:

 • 1973 through 1976, FPC, Form 4, "Monthly Power Plant Report."

 • 1977 through 1981: DOE, EIA, FPC Form 4, "Monthly Power Plant Report."

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

Sources for industrial sector:

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

1980 forward: EIA estimates.

Note: For 1977 forward, monthly data are not available from above sources and were estimated by seasonalizing the annual

numbers in proportion to each month's hydroelectricity generation in the electric utility sector.

Sources for imports and exports of electricity: Annual data from DOE, Economic Regulatory Administration, "Report on Electric Energy Exchanges with Canada and Mexico." Monthly estimates are derived from annual data by dividing by the number of days in the year and multiplying by the number of days in the month. 1981 is estimated by assuming 10 percent growth over 1980, and the 1981 estimates are used temporarily as 1982 estimates.

7. Nuclear: Sources: • 1973 through 1976: FPC, Form 4, "Monthly Power Plant Report."
• 1977 through 1981: DOE, EIA, FPC Form 4, "Monthly Power Plant Report."
• 1982 forward: DOE, EIA, EIA Form 759, "Monthly Power Plant Report."

8. Net Coke Imports: This is coke made from coal. Net imports means imports minus exports, and parentheses indicate that exports are

Sources: • 1973 through 1975, DOI, BOM, Minerals Yearbook, "Coke and Coal Chemicals, Annual."
• 1976 forward: DOE, EIA, Energy Data Reports, "Coke and Coal Chemicals, Monthly."

9. Other Energy: "Other" is electricity produced from geothermal power and from wood and waste.

Sources: same as Note 7 above, for Nuclear.

10. Electricity Sales: From the sources cited below the following sales categories are available: residential, commercial, industrial, and other. For the end-use estimates this section, the "other" category (which is primarily sales for use in government buildings) is added to the commercial sector except for approximately 4.2 percent which represents the transportation sector use of electricity. Sales of electricity are converted into Btu at the rate of 3,412 Btu per kilowatt-hour.

Sources of sales data: 1973 through February 1980: FPC, Form 5, "Monthly Statement of Electric Operating Revenue and Income."

March 1980 forward: FERC Form 5, "Electric Utility Company Monthly Statement."

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

Part 3

Crude Oil and Refined Petroleum Products*

Domestic crude oil production during December 1982 was estimated to be 8.7 million barrels per day, 0.3 percent below the rate in November 1982 but 0.9 percent above the rate in December 1981.

Total petroleum imports averaged 4.4 million barrels per day in December 1982, 23.6 percent lower than the November 1982 rate and 25.1 percent lower than the December 1981 rate.

In December 1982, 14.9 million barrels per day of petroleum products were supplied for domestic use, 0.9 percent below the level in November 1982 and 10.3 percent below the level of 1 year earlier. Motor gasoline accounted for 41.9 percent of the total; distillate fuel oil, 18.7 percent; and residual fuel oil, 8.7 percent.

Motor gasoline supplied during December 1982 averaged 6.2 million barrels per day, 4.9 percent below the rate in November 1982 and 6.6 percent below the level of 1 year earlier. Stocks of motor gasoline totaled 237 million barrels at the end of December

1982, 7 million barrels above the inventories reported at the end of November 1982 but 16 million barrels below the December 1981 inventories.

In December 1982, 2.8 million barrels of distillate fuel oil were supplied per day, 12.7 percent higher than the November 1982 rate but 13.1 percent lower than the December 1981 level. Distillate fuel oil stocks were 181 million barrels at the end of December 1982, 5 million barrels lower than at the end of the previous month and 11 million barrels below the stock level 1 year earlier.

Residual fuel oil supplied in December 1982 averaged 1.3 million barrels per day, 18.8 percent lower than in November 1982 and 42.4 percent lower than the December 1981 rate. Residual fuel oil stocks measured 68 million barrels at the end of December 1982, 2 million barrels above the stock level at the end of November 1982 but 10 million barrels below the ending stocks for the month of December 1981.

Petroleum

^{*}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 September 1982. The total import data above include imports into the Strategic Petroleum Reserve.

Crude Oil¹ and Petroleum Products Overview

		Fic	eld Produc	tion	Stock '	Withdrawal ²		Ending Stocks
		Total Domestic ³	Crude Oil	Natural Gas Plant Production	Crude Oil	Petroleum Products	Petroleum Products Supplied	Crude Oil¹ and Petroleum Products
				Thousand	barrels per d	lay		Million barrels
1973	AVERAGE	10,975	9,208	1,738	11	-146	17,308	‡1,008
1974	AVERAGE	10,498	8,774	1,688	-62	-117	16,653	‡1,074
1975	AVERAGE	10,045	8,375	1,633	-17	-145	16,322	‡1,133
1976	AVERAGE	9,774	8,132	1,603	-39	96	17,461	‡1,112
1977	AVERAGE	9,913	8,245	1,618	-170	-378	18,431	‡1,31 2
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	January	10,377	8,675	1,648	-594	270	18,851	1,351
	February	10,402	8,705	1,656	-292	563	18,817	1,343
	March	10,303	8,698	1,568	-47	-99	17,377	1,348
	April	10,356	8,685	1,630	-412	-229	16,784	1,367
	May	10,298	8,635	1,615	-117	-520	16,238	1,387
	June	10,164	8,554	1,561	65	-869	16,187	1,411
	July	10,113	8,547	1,524	88	-556	16,008	1,425
	August	9,974						
	•	9,974 10,184	8,414	1,519	-274	-473 250	15,753	1,449
	September		8,619	1,515	307	-259 -250	16,598	1,447
	October	10,092	8,532	1,516	-191	756	16,995	1,430
	November	10,109	8,495	1,571	-8	-84	16,702	1,432
	December	10,204	8,606	1,560	304	993	18,410	1,392
	AVERAGE	10,214	8,597	1,573	-98	-42	17,056	
1981	January	10,231	8,540	1,652	50	1,159	18,430	1,388
	February	10,294	8,604	1,653	-278	250	16,989	1,389
	March	10,272	8,613	1,624	-632	224	15,907	1,401
	April	10,195	8,557	1,599	-595	148	15,350	1,415
	May	10,160	8,501	1,593	-391	-374	15,353	1,438
	June	10,287	8,629	1,594	-135	406	16,095	1,430
	July	10,098	8,500	1,548	-360	91	15,682	1,439
	August	10,243	8,583	1,614	397	-999	15,263	1,457
	September	10,281	8,604	1,612	-285	-341	15,655	1,476
	October	10,225	8,563	1,598	-760	477	15,822	1,485
	November	10,269	8,586	1,630	-325	-233	15,593	1,501
	December	10,220	8,585	1,590	-170	745	16,596	1,484
	AVERAGE	10,230	8,572	1,609	-290	130	16,058	1,404
1982	January	10,257	8,669	1,548	-236	1,129	15,890	1,461
	February	10,261	8,690	1,524	-216	1,268	15,941	1,431
	March	10,212	8,597	1,570	-65	1,049	15,560	1,401
	April	10,296	8,652	1,588	107	1,594	16,048	1,350
	May	10,223	8,660	1,520	49	-34	14,845	1,349
	June	10,242	8,681	1,505	86	-515	14,931	1,362
	July	10,228	8,649	1,521	-155	-865	14,771	1,394
	August	10,301	8,701	1,543	-440	4	14,838	1,407
	September	10,306	8,733	1,513	252	-489	14,921	1,415
	October	10,283	8,676	1,540	-564	-55	14,820	1,434
	November	10,377	8,690	1,634	R-357	R-357	R15,031	R1,455
	Decembert	NA NA	8,660	NA	-126	200	14,894	1,440
							•	1,770
_	AVERAGE	. NA	8,671	NA .	-140	238	15,201	

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

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

Includes lease condensate.

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

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

Includes stocks located in the Strategic Petroleum Reserve.

Ending stocks for 1973–1979 are totals as of December 31.

Italics denote preliminary data. R = Revised data. NA = Not available.

Notes: Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

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

Crude Oli¹ and Petroleum Products Overview (continued)

Imports²

		Imports ²			_	· · · · · · · · · · · · · · · · · · ·		
		Total	Crude Oil ⁴	Petroleum Products	Total	Crude Oil	Petroleum Products	Net Imports
					Thousand barrel	s per day		
1973	AVERAGE	6,256	3,244	3,012	231	2	229	6,025
1974	AVERAGE	6,112	3,477	2,635	221	3	218	5,892
1975	AVERAGE	6,056	4,105	1,951	209	6	204	5,846
1976	AVERAGE	7,313	5,287	2,026	223	8	215	7,090
1977	AVERAGE	8,807	6,615	2,193	243	50	193	8,565
1978	AVERAGE	8,363	6,356	2,008	362	158	204	8,002
1979	AVERAGE	8,456	6,519	1,937	471	235	236	7,985
1980	January	8,598	6,406	2,192	550	322	228	8,048
	February	7,945	6,013	1,931	. 558	332	227	7,386
	March	7,452	5,695	1,757	573	330	243	6,879
	April	7,106	5,598	1,508	434	192	241	6,672
	May	6,579	5,106	1,472	591.	326	266	5,987
	June	6,894	5,480	1,414	654	365	289	6,240
	July	6,257	4,843	1,414	531	238	293	5,727
	August	6,192	4,803	1,389	319	78	241	5,873
	September	6,239	4,707	1,532	557	322	235	5,682
	October	6,379	4,768	1,611	598	309	288	5,781
	November	6,408	4,680	1,728	549	289	260	5,859
	December	6,894	5,082	1,812	622	343	279	6,272
	AVERAGE	6,909	5,263	1,646	544	287	258	6,365
1981	January	6,827	4,932	1,895	558	339	219	6,270
	February	6,772	4,873	1,899	• 569	198	371	6,203
	March	6,028	4,521	1,507	586	210	376	5,442
	April	` 5,668	4,338	1,330	570	198	372	5,098
	May	5,775	4,287	1,489	595	312	283	5,180
	June	5,435	4,061	1,375	420	123	297	5,015
	July	5,816	4,296	1,521	571	257	314	5,245
	August	5,767	4,179	1,588	644	204	440	5,123
	September	6,365	4,740	1,624	519	194	325	5,845
	October	5,959	4,380	1,579	738	226	512	5,221
	November	5,741	4,046	1,695	701	278	423	5,041
	December	5,843	4,137	1,706	656	189	467	5,187
	AVERAGE	5,996	4,396	1,599	595	228	367	5,401
1982	January	5,232	3,648	1,585	829	238	591.	4,404
	February	4,691	2,949	1,742	804	304	499	3,887
	March	4,461	2,856	1,606	882	321	561	3,579
	April 🕜	4,286	2,813	1,474	786	174	611	3,501
	May	4,784	3,314	1,471	803	262	542	3,981
	June	5,227	3,782	1,445	703	94	609	4,524
	July	5,763	4,245	1,518	741	229	512	5,022
	August	5,156	3,820	1,336	858	304	554	4,298
	September	5,359	3,603	1,757	791	184	606	4,569
	October	5,230	3,636	1,594	932	270	662	4,298
	November	R5,726	R3,863	R1,864	786	262	524	4,940
	December†	4,377	3,023	1,354	NA NA	NA	NA .	NA NA
	AVERAGE	5,026	3,466	1,560	NA.		' NA	
	AVERAGE	3,020	3,400	1,000	MA	NA	NA	NA

Exports³

Geographic coverage: the 50 United States and the District of Columbia. Totals may not equal sum of components due to independent rounding. *Includes lease condensate. *Includes shipments from the U.S. possessions and territories. *Includes shipments to the U.S. possessions and territories. *Includes crude oil for storage in the Strategic Petroleum Reserve. *Net Imports equals Imports minus Exports. †Italics denote preliminary data. R=Revised data. NA=Not available. *Sources: *See Notes and Sources on the last page of this section.

Crude Oil¹ Supply and Disposition

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•		Field Pro	oduction		Imports ²		Stock V	/ithdrawai ³
		Total Domestic	Alaskan	Total	SPR'	Other	SPR ⁴	Other
				Thouse	and barrels p	per day		
1973	AVERAGE	9,208	198	3,244		3,244		11
1974	AVERAGE	8,774	193	3,477		3,477		-62
1975	AVERAGE	8,375	191	4,105		4,105		-17
1976	AVERAGE	8,132	173	5,287		5,287		-39
1977	AVERAGE	8,245	464	6,615	21	6,594	-20	-150
1978	AVERAGE	8,707	1,229	6,356	162	6,195	-163	84
1979	AVERAGE	8,552	1,401	6,519	67	6,452	-67	-81
1980	January	8,675	1,634	6,406	0	6,406	0	-594
	February	8,705	1,630	6,013	Ö	6,013	ŏ	-292
	March	8,698	1,647	5,695	ő	5,695	ŏ	-292 -47
	April	8,685	1,649	5,598	Ö			
	•	8,635	1,627	•		5,598	0	-412
	May			5,106	0	5,106	0	-117
	June	8,554	1,626	5,480	0	5,480	0	65
	July	8,547	1,612	4,843	0	4,843	0	88
	August	8,414	1,612	4,803	0	4,803	0	-274
	September	8,619	1,610	4,707	54	4,653	-54	361
	October	8,532	1,588	4,768	131	4,637	-123	-68
	November	8,495	1,561	4,680	142	4,538	-189	181
	December	8,606	1,602	5,082	198	4,884	-177	481
	AVERAGE	8,597	1,617	5,263	44	5,219	-45	-52
1981	January	8,540	1,606	4,932	106	4,826	-151	201
	February	8,604	1,619	4,873	80	4,793	-127	-150
	March	8,613	1,618	4,521	140	4,382	-155	-477
	April	8,557	1,608	4,338	272	4,066	-444	-151
	May	8,501	1,580	4,287	386	3,901	-513	122
	June	8,629	1,632	4,061	318	3,743	-434	299
	July	8,500	1,605	4,296	175	4,121	-324	-36
	August	8,583	1,602	4,179	257	3,922	-372	
	September	8,604	1,607	4,740	435	4,305		769
	October	8,563	1,596			•	-486	201
	November			4,380	453	3,927	-501	-259
	December	8,586	1,614	4,046	271	3,774	-259	-66
	AVERAGE	8,585 8,572	1,623 1,609	4,137 4,396	165 256	3,971 4,141	-252 -336	82 46
1982	January	8,669	1,712	3.648		•		-
1502	February	8,690	1,712	3,648 2,949	170 159	3,478	-159	-77
						2,790	-213	-3
	March	8,597	1,702	2,856	185	2,671	-235	1 70
	April	8,652	1,687	2,813	190	2,623	-233	341
	May	8,660	1,725	3,314	204	3,110	-176	225
	June	8,681	1,675	3,782	105	3,678	-105	191
	July	8,649	1,715	4,245	97	4,147	-97	-58
	August	8,701	1,699	3,820	208	3,611	-208	-233
	September	8,733	1,707	3,603	139	3,463	-143	395
•	October	8,676	1,677	3,636	216	3,420	-216	-348
	November	8,690	1,667	R3,863	R180	R3,683	R-179	R-177
	Decembert	8,660	1,663	3,023	145	2,878	-1 <i>29</i>	3
	AVERAGE	8,671	1,695	3,466		•		
	AVENAUE	0,071	1,050	3,400	167	3,299	-174	34

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

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

*Includes lease condensate.

*Includes shipments from U.S. possessions and territories.

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

*Strategic Petroleum Reserve.

†Italics denote preliminary data. R = Revised data.

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

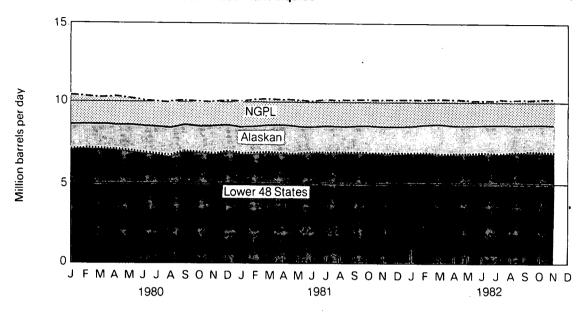
Crude Oil¹ Supply and Disposition (continued)

		Sup	ply	Dispo	sition	<u></u>	Ending Stocks	
		Unaccounted for Crude Oil	Crude Used Directly and Losses	Refinery Inputs	Exports ²	Total	SPR ³	Other Primary
			Thousand barre	ls per day			Million barr	els
1973	AVERAGE	3	-32	12,431	2	‡242		‡242
1974	AVERAGE	-25	-28	12,133	3	‡265		‡265
1975	AVERAGE	17	-30	12,442	6	‡271		‡271
1976	AVERAGE	77	-33	13,416	8	‡285		‡285
1977	AVERAGE	-6	-30	14,602	50	‡348	‡7	‡340
1978	AVERAGE	-57	-30	14,739	158	‡376	‡67	‡309
1979	AVERAGE	-11	-29	14,648	235	‡430	‡91	‡339
1980	January	166	-31	14,301	322	449	91	358
	February	124	-31	14,187	332	457	91	366
	March	-278	-30	13,709	330	459	91	367
	April	-165	-29	13,484	192	471	91	380
	May	55	-28	13,326	326	475	91	383
	June	1	-30	13,705	365	473	91	381
	July	52	-29	13,264	238	470	91	379
•	August	147	-28	12,984	78	478	91	387
	September	27	-26	13,313	322	469	93	376
	October	-3	-25	12,772	309	475	97	379
	November	266	-26	13,119	289	475	102	373
	December	24	-26	13,648	343	466	102	358
	AVERAGE	34	-28	13,481	287	400	106	336
1981	January	113	-49	13,247	339	486	112	374
	February	-41	-58	12,902	198	494	116	378
	March	154	-63	12,383	210	514	121	393
	April	51	-62	12,091	198	532	134	397
	May	286	-62	12,309	312	544	150	394
	June	49	-65	12,415	123	548	163	385
	July	147	-65	12,261	257	559	173	386
	August	16	-63	12,908	204	547	185	362
	September	-295	-65	12,505	194	555	199	356
	October	166	-66	12,057	226	579	215	364
	November	279	-68	12,240	278	589	223	366
	December	52	-67	12,349	189	594	230	363
	AVERAGE	83	-63	12,470	228	554	200	505
1982	January	-138	-66	11,638	238	606	235	371
	February	199	66	11,252	304	612	241	371
	March	278	-68	11,277	321	614	249	366
	April	56	-68	11,386	174	611	256	355
	May	105	-65	11,801	262	609	261	348
	June	110	-67	12,498	94	607	264	343
	July	1	-63	12,447	229	612	267	345
	August	140	-59	11,858	304	625	274	352
	September	-218	-59	12,126	184	618	278	340
	October	324	-53	11,750	270	635	285	340 351
	November	-141	-52	11,741	262			
	December†	NA NA	NA	11,772	NA .	R646 <i>648</i>	R290	R356
	AVERAGE	NA	NA '	11,798	NA NA	040	293	354

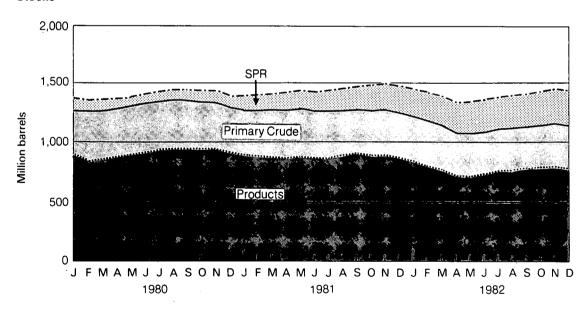
Geographic coverage: the 50 United States and the District of Columbia. Totals may not equal sum of components due to independent rounding. ¹Includes lease condensate. ²Includes shipments to the U.S. possessions and territories. ³Strategic Petroleum Reserve. ‡Ending stocks for 1973–1979 are totals as of December 31. †Italics denote preliminary data. R=Revised data. NA=Not available. Sources: • See Notes and Sources on the last page of this section.

Overview

Production of Crude Oil and Natural Gas Plant Liquids



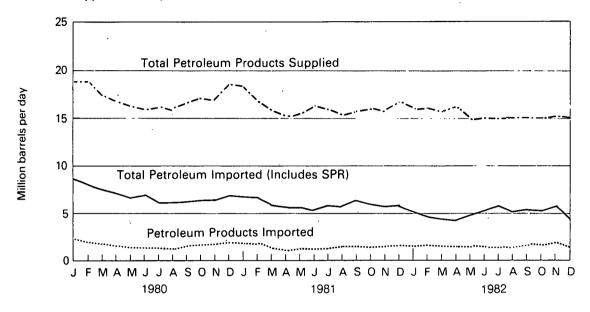
Stocks



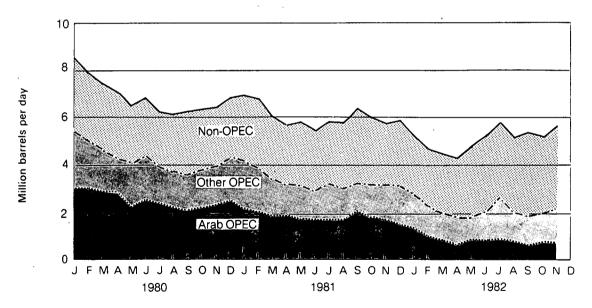


Overview

Products Supplied and Imports



Petroleum Imports by Source



Petroleum

Crude Oil and Petroleum Product Imports from OPEC Sources

		Algeria	Libya	Saudi Arabia	United Arab Emirates	Indo- nesia	Iran	Nigeria	Vene- zuela	Other OPEC ¹	Total OPEC	Total Arab OPEC ²
						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	` 7 4	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	January	503	618	1,576	202	454	95	1,054	786	179	5,467	3,034
	February	656	603	1,412	304	317	9	1,036	543	152	5,031	3,058
	March	472	654	1,380	289	405	0	924	352	175	4,652	2,889
	April	546	683	1,300	150	374	0	734	343	240	4,369	2,862
	May	441	468	1,149	172	360	0	955	405	147	,4,098	2,329
	June	497	561	1,328	178	331	0	998	409	106	4,408	2,598
	July	557	492	1,192	158	365	0	752	417	62	3,995	2,418
	August	432	431	1,139	142	289	0	792	406	112	3,743	2,222
	September	375	505	1,112	107	299	. 0	735	425	111	3,670	2,185
	October November	465 402	478 500	1,044	182	348	0	728	482	95	3,821	2,226
		493 423	500 650	1,201	105	348	0	624	595	78	3,944	2,338
	December		658	1,301	83	288	0	958	610	101	4,423	2,484
	AVERAGE	488	554	1,261	172	348	9	857	481	130	4,300	2,551
1981	January	341	500	1,284	93	424	0	908	549) 27) 02	4,127	2,219
	February	381	468	1,122	93	406	0	866	463	34	3,891	2,064
	March	352	485	1,027	47	328	0	771	360	54	3,425	1,912
	April	263	485	1,034	68	307	0	812	237	39	3,245	1,867
	May June	393 356	443 380	933 865	17 60	297	0	664	331	124	3,203	1,796
		333	251			367	0	528	248	118	2,922	1,703
	July August	348	274	1,073 1.082	80 61	340 377	0	651 321	466 523	38 84	3,233	1,757
	September	336	154	1,002	96	377 371	0	321	359	84 149	3,070	1,765
	October	242	147	1,477	90	427	0	323 412	389	172	3,264	2,063
	November	210	132	1,270	112	353	ŏ	517	535	56	3,220 3,184	1,820 1,724
	December	176	122	1,045	158	400	ŏ	684	411	132	3,129	1,502
	AVERAGE	311	319	1,129	81	366	. 0	620	406	90	3,323	1,848
1982	January	254	161	877	87	273	0	662	376	128	2.818	. 1,378
	February	139	92	692	· 79	236	ŏ	579	347	102	2,267	1,044
	March	91	37	555	155	200	ŏ	503	399	91	2,032	860
	April	85	0	479	122	215	ŏ	427	411	79	1.818	707
	May	179	Ó	601	116	236	ō	211	414	54	1,811	897
	June	93	Ö	593	94	215	72	537	361	110	2,075	799
	July	122	0	644	123	327	69	910	349	95	2,640	927
	August	170	0	489	133	272	27	542	288	134	2,057	807
	September	162	0	432	57	191	21	479	514	52	1,907	659
	October	249	7	494	61	227	108	291	496	96	2,029	810
	November	247	13	489	47	283	34	480	539	115	2,246	795
	AVERAGE	163	28	577	98	243	30	511	409	96	2,155	880

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.
Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.
Sources: • See Notes and Sources on the last page of this section.



Petroleum

Crude Oil and Petroleum Product Imports from Non-OPEC Sources

						Netherlands	Trinidad and	United	Duanta	Missis		
1973 AVERAGE 174 1,325 16 585 255 15 99 329 465 3,263 1974 AVERAGE 164 1,070 8 511 251 8 90 391 340 2,832 1975 AVERAGE 152 846 71 332 242 14 90 406 300 2,454 1976 AVERAGE 118 599 87 275 274 31 88 422 353 2,247 1977 AVERAGE 171 517 179 211 289 126 105 466 550 2,614 1978 AVERAGE 160 467 318 229 253 180 94 429 484 2,613 1979 AVERAGE 177 538 439 231 190 202 92 431 548 2,819 1980 January 175 570 545 289 239 296 57 467 492 3,131 February 117 540 477 205 192 105 95 536 652 2,914 March 124 460 477 205 192 105 95 536 652 2,914 May 77 419 576 176 221 124 88 303 496 2,481 June 777 409 602 197 197 162 146 91 314 465 2,486 August 62 319 646 242 180 115 90 376 376 2,262 August 62 389 646 242 180 115 90 376 376 2,262 August 62 470 475 205 199 105 95 536 652 2,491 AVERAGE 54 458 550 2413 190 115 90 376 376 2,262 August 62 470 475 205 199 107 107 372 450 2,257 Notember 22 470 605 240 154 199 109 373 376 2,262 AVERAGE 78 455 533 225 176 176 88 388 491 2,269 1981 January 84 546 437 227 163 271 46 91 314 465 2,466 December 54 502 445 212 149 199 109 423 378 4,271 AVERAGE 78 455 533 225 176 176 88 388 491 2,269 August 69 378 401 198 150 233 89 494 552 2,771 June 51 353 538 196 196 124 397 67 262 525 2,513 July 77 382 344 473 227 163 271 46 481 626 2,881 May 122 365 522 213 105 368 58 344 474 2,573 AVERAGE 78 455 533 225 176 176 88 388 491 2,269 August 69 378 489 255 123 592 68 134 694 3,269 August 69 378 489 255 123 592 68 134 694 3,269 August 69 378 489 255 123 592 68 134 694 2,265 August 69 378 489 255 123 592 68 134 694 2,273 August 69 378 489 255 123 592 68 134 694 3,269 August 69 378 489 255 123 592 68 134 694 3,269 August 69 378 489 255 123 592 68 134 694 3,269 August 69 378 489 255 123 592 68 134 694 3,269 August 69 378 489 257 783 180 180 180 237 76 226 525 2,711 AVERAGE 74 447 52 488 227 93 283 455 370 571 2,603 August 69 378 489 255 123 592 68 134 695 237 76 563 2,714 AVERAGE 77 447 529 866 666 247 39 266 682 247 39 266 682 247 39 266 682 247 39 266 682 247 39 266 682 247 39 266 682 247 39 266 682 247 39 266 682 277 39 26		•	Bahamas	Canada	Mexico				Puerto Rico¹	Virgin Islands ¹	Other ²	Total
1974 AVERAGE 164 1,070 8 511 251 8 90 391 340 2,882 1975 AVERAGE 152 846 71 332 242 14 90 406 300 2,454 1976 AVERAGE 118 599 87 275 274 31 88 422 353 2,247 1977 AVERAGE 171 517 179 211 289 126 105 466 550 2,614 1978 AVERAGE 160 467 318 229 253 180 94 429 484 2,613 1979 AVERAGE 147 538 439 231 190 202 92 431 548 2,819 1980 January 175 570 570 545 289 239 296 57 467 492 3,191 February 111 540 477 205 192 105 95 536 652 2,914 March 124 450 460 184 189 232 101 449 661 2,800 April 56 459 546 291 142 188 232 101 449 661 2,800 April 56 459 546 291 142 188 232 101 449 661 2,800 April 56 459 546 291 142 184 88 303 496 2,481 July 77 4109 627 197 162 146 9 313 465 2,486 July 43 378 460 242 180 115 90 378 376 2,262 August 62 319 466 255 159 196 85 204 463 463 2,649 September 58 458 550 213 205 218 52 349 473 2,559 October 70 475 500 213 205 218 52 349 379 376 2,262 AVERAGE 78 455 533 225 176 176 88 388 491 2,609 1981 January 39 543 401 198 150 233 89 494 552 2,701 AVERAGE 78 455 533 225 176 176 88 388 491 2,609 April 68 412 418 189 223 114 107 372 450 2,557 November 22 470 459 264 158 157 108 391 435 2,464 AVERAGE 78 455 533 225 176 176 88 388 491 2,609 April 68 412 418 189 223 5176 168 391 494 552 2,701 AVERAGE 78 455 533 225 176 176 88 388 491 2,609 April 68 412 418 189 130 323 89 494 552 2,701 April 68 412 418 189 130 323 89 494 552 2,701 August 69 378 348 422 123 199 109 423 378 2,471 AVERAGE 78 455 533 225 176 176 88 388 491 2,609 April 68 412 418 189 130 323 89 494 552 2,701 August 69 378 384 422 127 183 523 592 68 184 539 2,698 August 69 378 384 212 178 553 50 00 553 300 562 2,739 August 69 378 349 689 161 121 351 60 303 562 2,739 August 69 378 349 429 122 339 89 394 421 2,557 August 69 378 384 489 255 123 592 68 184 539 2,698 August 69 378 384 492 122 178 553 50 00 654 12,553 August 69 378 489 255 123 592 68 184 539 2,698 August 69 378 489 255 123 592 68 184 539 2,698 August 69 378 489 255 123 592 68 184 539 2,698 August 69 378 489 255 123 592 68 184 539 2,698 August 69 378 498 255 123 592 68 184 539 442 2,557 Augu						Thou	sand barre	ls per day				
1975 AVERAGE 152 846 71 332 242 14 90 406 300 2,454 1976 AVERAGE 118 599 87 275 274 31 88 422 353 2,247 1977 AVERAGE 171 517 179 211 289 126 105 466 550 2,614 1978 AVERAGE 160 467 318 229 253 180 94 429 484 2,613 1979 AVERAGE 147 538 439 231 190 202 92 431 548 2,613 1980 January 175 570 545 289 239 296 57 467 492 3,131 February 111 540 477 205 192 105 95 536 652 2,914 March 124 480 460 184 189 232 101 449 601 2,800 April 56 459 546 231 143 182 76 425 619 2,737 June 77 419 576 176 221 124 88 303 496 2,481 July 43 378 460 242 180 115 90 378 376 2,262 August 62 319 646 255 159 196 85 264 463 2,449 September 58 458 550 213 205 218 52 343 473 2,559 October 70 475 605 230 114 134 107 372 450 2,557 November 22 470 459 264 158 157 108 391 435 2,464 December 54 502 445 212 149 19 109 423 378 2,471 April 64 505 533 225 176 176 88 388 491 2,609 1981 January 39 543 401 198 159 150 233 89 494 552 2,701 February 84 546 487 227 183 271 46 481 626 2,881 May 177 382 345 401 198 139 402 40 365 380 4,471 April 64 574 885 550 213 205 218 52 343 378 376 2,255 November 22 470 459 264 158 157 108 391 435 2,464 December 54 502 445 212 149 199 109 423 378 2,471 April 68 412 418 198 139 402 40 365 380 2,471 April 68 412 418 198 139 402 40 365 380 2,471 April 68 412 418 198 139 402 40 365 380 4,471 April 68 412 418 198 139 402 40 365 380 2,423 April 69 378 489 255 123 592 68 184 539 2,688 September 51 533 489 255 123 592 68 184 539 2,688 September 63 449 669 161 121 351 60 303 562 2,739 August 69 378 489 255 123 592 68 184 539 2,688 September 70 501 587 148 125 280 73 367 62 2,685 September 70 501 587 148 125 280 73 367 62 2,685 September 70 501 587 148 125 280 73 367 62 2,686 August 69 378 489 255 123 592 68 184 539 2,688 September 70 501 587 148 125 280 73 367 62 2,686 August 69 378 489 255 123 592 68 184 539 2,688 September 70 501 587 148 125 280 73 367 62 2,686 August 69 378 489 255 123 592 68 184 593 44 425 2,739 August 69 378 489 255 123 592 68 334 425 2,739 August 69 378 489 255 123 592 68 324 425 2,739 August 69 378 489 255 123 5	1973	AVERAGE	174	1,325	16	585	255	15	99	329	465	3,263
1976 AVERAGE 118 599 87 275 274 31 88 422 353 2,247 1977 AVERAGE 171 517 179 211 289 126 105 466 550 2,614 1978 AVERAGE 160 467 318 229 253 180 94 429 484 2,613 1979 AVERAGE 147 538 439 231 190 202 92 431 548 2,819 1980 January 175 570 545 289 239 296 57 467 492 3,131 February 111 540 477 205 192 105 95 536 652 2,914 March 124 460 460 184 189 232 101 449 601 2,800 April 56 459 546 231 143 182 76 425 619 2,737 May 777 419 576 176 221 124 88 303 496 2,481 Jule 777 409 627 197 162 1166 91 314 465 2,466 July 43 378 460 242 180 115 90 378 376 2,262 August 62 319 646 255 159 196 85 264 463 2,449 September 58 458 550 213 205 218 52 343 473 2,569 October 70 475 605 230 114 134 107 372 450 2,557 November 22 470 459 264 158 157 108 391 391 435 2,464 AVERAGE 78 455 533 225 176 176 88 388 491 2,609 1981 January 39 543 401 198 150 233 89 484 52 2,701 Januery 39 543 401 198 150 233 89 484 52 2,701 January 39 543 401 198 139 402 40 365 380 2,423 May 122 365 522 213 105 368 58 384 491 2,609 1981 January 39 543 401 198 139 402 40 365 380 2,423 May 122 365 522 213 105 368 58 384 491 2,609 1981 January 39 543 401 198 139 402 40 365 380 2,423 June 51 353 2,584 March 74 472 488 227 93 263 45 370 571 2,603 May 122 365 522 213 105 368 58 344 474 2,573 June 51 353 538 196 124 397 62 22 556 61 3,100 April 68 412 418 198 139 402 40 365 380 2,423 May 122 365 522 213 105 368 58 344 474 2,573 June 51 353 538 196 124 397 67 262 525 2,513 June 51 353 538 196 124 397 67 262 525 2,513 June 51 353 538 196 124 397 67 262 525 2,513 June 51 353 538 196 124 397 67 262 525 2,513 June 51 353 538 196 124 397 62 225 207 130 November 63 547 628 168 108 253 76 224 227 33 205 248 421 2,557 December 50 544 52 12 179 106 346 62 377 397 563 2,714 AVERAGE 74 447 522 197 133 375 62 327 534 2,577 AVERAGE 74 447 522 197 133 375 62 327 534 2,577 June 51 353 588 682 141 12 129 559 58 322 377 397 2,693 November 63 547 628 168 169 124 397 67 32 242 347 AVERAGE 74 447 522 197 133 375 62 327 534 2,577 June 30 545 545 545 545 54	1974	AVERAGE	164	1,070	8	511	251	8	90	391	340	2,832
1977 AVERAGE 171 517 179 211 289 126 105 466 550 2,614 1978 AVERAGE 160 467 318 229 253 180 94 429 484 2,613 1979 AVERAGE 147 538 439 231 190 202 92 431 548 2,819 1980 January 175 570 545 289 239 296 57 467 492 3,131 Harding Hardi	1975	AVERAGE	152	846	71	332	242	14	90	406	300	2,454
1978 AVERAGE 160 467 318 229 253 180 94 429 484 2,613 1979 AVERAGE 1147 538 439 231 190 202 92 431 548 2,819 1980 January 175 570 545 289 239 296 57 467 492 3,131 February 111 540 477 205 192 105 95 536 652 2,914 March 124 460 460 184 189 232 101 449 601 2,800 April 56 459 546 231 143 182 76 425 619 2,737 May 777 409 627 197 162 146 91 314 465 2,486 July 43 378 460 242 180 115 90 378 376 2,262 August 62 319 646 255 159 196 85 264 463 2,449 September 58 458 550 213 205 218 52 343 473 2,569 October 70 475 605 230 114 134 107 372 450 2,557 November 22 470 459 264 158 157 108 391 435 2,464 December 54 502 445 212 149 199 109 423 378 42,471 AVERAGE 78 455 533 225 176 176 88 388 491 2,609 1981 January 39 543 401 198 150 233 89 494 552 2,701 March 74 472 488 227 93 263 454 370 571 2,603 April 68 412 418 198 139 402 40 365 380 2,243 May 177 382 384 198 199 109 423 370 571 2,603 April 68 412 418 198 139 402 40 365 380 2,243 May 177 382 384 196 124 397 67 262 525 2,513 June 51 353 538 196 124 397 67 262 525 2,513 June 51 353 538 196 124 397 67 262 525 2,513 June 51 353 538 196 124 397 67 262 525 2,513 July 77 382 384 212 178 553 50 20 68 184 599 2,698 September 61 353 538 196 124 397 67 262 525 2,513 July 77 382 384 212 178 553 50 20 68 184 599 2,698 September 111 423 708 163 169 528 72 265 661 3,100 Cotober 70 501 587 148 125 280 73 367 563 2,714 AVERAGE 74 447 522 197 133 375 62 334 425 2,719 November 63 547 628 168 108 253 76 294 421 2,557 June 51 353 593 189 118 293 62 337 534 2,672 1982 January 28 509 426 179 106 346 62 334 425 2,415 AVERAGE 74 447 522 197 133 375 62 327 534 2,672 June 61 357 7467 180 166 247 36 66 662 2,468 May 76 416 767 152 95 516 47 302 603 2,714 AVERAGE 74 447 522 197 133 375 62 327 534 2,672 June 61 353 547 628 168 108 253 76 294 421 2,557 AVERAGE 74 447 522 197 133 375 62 327 534 2,672 June 61 353 547 628 168 108 253 76 294 421 2,557 AVERAGE 74 447 522 197 133 375 62 327 534 2,672 June 61 353 547 628 168 168 108 253 76 294 421 2,557 AVERAGE 74 447 522	1976	AVERAGE	118	599	87	275	274	31	88	422	353	2,247
1979 AVERAGE	1977	AVERAGE	171	517	179	211	289	126	105	466	550	2,614
1980 January 175 570 545 289 239 296 57 467 492 3,131	1978	AVERAGE	160	467	318	229	253	180	94	429	484	2,613
February 111 540 477 205 192 105 95 536 682 2,914	1979	AVERAGE	147	538	439	231	190	202	92	431	548	2,819
February 111 540 477 205 192 105 95 536 652 2.914	1980	January	175	570	545	289	239	296	57	467	492	3.131
March 124 460 460 184 189 232 101 449 601 2,800		February	111	540	477	205	192	105	95	536	652	2.914
April 56 459 546 231 143 182 76 425 619 2.737 May 77 419 576 176 221 124 88 303 496 2.481 June 77 409 627 197 162 146 91 314 465 2.486 July 43 378 460 242 180 115 90 378 376 2.262 August 62 319 646 255 159 196 85 264 463 2.449 September 58 458 550 213 205 218 52 343 473 2.569 October 70 475 605 230 114 134 107 372 450 2.557 November 22 470 459 264 158 157 108 391 435 2.464 December 54 502 445 212 149 199 109 423 378 2.471 AVERAGE 78 455 533 225 176 176 88 388 491 2.609 1981 January 39 543 401 198 150 233 89 494 552 2.701 February 84 546 437 227 163 271 46 481 626 2.881 March 74 472 488 227 93 263 45 370 571 2.603 April 68 412 418 198 139 402 40 365 380 2.423 May 122 365 522 213 105 368 58 344 474 2.573 June 51 353 538 196 124 397 67 262 525 2.513 July 77 382 384 212 178 553 50 206 541 2.583 August 69 378 489 255 123 592 68 184 539 2.698 September 111 423 708 163 169 528 72 265 661 3.100 October 63 547 628 168 108 253 76 294 421 2.557 December 70 501 587 148 125 280 73 367 563 2.714 AVERAGE 74 447 522 197 108 397 67 262 525 2.513 July 77 382 384 212 178 553 50 206 541 2.583 August 69 378 489 255 123 592 68 184 539 2.698 September 111 423 708 163 169 528 72 265 661 3.100 October 63 547 628 168 108 253 76 294 421 2.557 December 70 501 587 148 125 280 73 367 563 2.714 AVERAGE 74 447 522 197 133 375 62 327 534 2.697 AVERAGE 74 447 522 197 133 375 62 327 534 2.697 AVERAGE 74 447 752 197 106 346 62 334 425 2.415 AVERAGE 74 447 752 197 108 389 32 666 682 2.468 May 76 416 767 152 95 516 47 302 603 2.974 AVERAGE 74 447 752 197 133 375 62 327 749 2.429 April 67 357 467 180 166 247 36 266 682 2.468 May 76 416 767 152 95 516 47 302 603 2.974 AVERAGE 74 484 897 195 89 631 51 270 744 3.450 August 68 435 456 682 148 109 666 52 262 763 3.020 October 45 456 682 148 109 666 52 262 763 3.020 October 45 456 682 148 109 666 52 262 770 3.480 October 45 456 682 148 109 666 52 262 770 3.480 October 45 456 682 148 109 666 52 262 770 3.480 October 45 456 682 148 109 666 52 262 770 3.480 October 45 456 682 148 109 666 52 262 770 3.480		March	124	460	460	184	189	232	101	449		
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December 70 501 587 148 125 280 73 367 563 2,714 AVERAGE 74 447 522 197 133 375 62 327 534 2,672 1982 January 28 509 426 179 106 346 62 334 425 2,415 February 50 533 489 221 120 132 38 354 487 2,424 March 43 435 503 189 118 293 62 307 479 2,429 April 67 357 467 180 166 247 36 266 682 2,468 May 76 416 767 152 95 516 47 302 603 2,974 June 32 462 797 141 129 539 58 322 673 3,153 July 30 527 783 158 111 433 38 369 674 3,122 August 68 435 854 145 106 520 24 320 627 3,099 September 92 484 897 195 89 631 51 270 744 3,453 October 45 456 682 148 109 666 52 262 783 3,202 November 48 547 860 203 90 623 81 334 694 3,480					669	161	121	351	60	303	562	2,739
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AVERAGE		November	48	547	860	203	90	623	81	334	694	
		AVERAGE	53	469	685	173	113	452	50	313		•

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

1U.S. possessions.

Includes all non-OPEC countries except those shown above.

Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.
Sources: • See Notes and Sources on the last page of this section.

Finished Motor Gasoline Supply and Disposition

		Supply			Disposition				Ending Stocks	
		Total		Stock		Р	roduct Suppl	ied	Total Motor	Finished Motor
		Production	Imports ¹	Withdrawal ¹ ²	Exports	Total	Unleaded ³	Unleaded Percent	Gasoline ⁴	Gasoline
				Thousand	d barrels pe	r day		of Total	Million	barrels
1973	AVERAGE	6,535	134	9	4	6,674		3	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	January	6,991	141	-809 -423	1	6,323 6,596	2,718 2,969	43.0 45.0	262 275	
	February	6,866	154	-423 -267	(s)		3,032	45.0 47.3	275 283	
	March	6,519	155	-267 362	(s)	6,406 6,800	3,032	47.3 44.4	203 272	
	April	6,284	155	283	1	6,729	2,980	44.4 44.3	263	
	May	6,316 6,569	132 148	-59	i	6,657	3,099	46.6	265	
	June	· · · · · · · · · · · · · · · · · · ·	149	-132	3	6,743	3,131	46.4	261	
	July	6,465		-132 	1	6,743 6,648	3,135	40.4 47.2	259	
	August	6,452	141 106	28	7		3,054	47.2 46.9	259 258	
	September October	6,383 6,131	152	380	1	6,510 6,662	3,110	46. 3 46.7	247	
	November	6,467	126	-359			3,123	50.1	257	
	December	6,467 6,644	121	-133	(s) 1	6,234 6,632	3,421	50.1 51.6	261	
	AVERAGE	6,506	140	- 133 - -66	1	6,579	3,067	46.6	201	
1981	January	6,715	138	-421	(s)	6,431	3,141	48.8	276	227
	February	6,308	111	-118	` i	6,301	3,095	49.1	284	230
	March	6,213	171	-81	(s)	6,303	3,097	49.1	285	232
	April	6,114	186	303	(s)	6,602	3,284	49.7	272	223
	May	6,122	150	344	1	6,615	3,115	47.1	259	213
	June	6,220	186	622	1	7,028	3,419	48.6	242	194
	July	6,405	151	268	(s)	6,823	3,424	50.2	228	186
	August	6,611	124	-95	3	6,637	3,344	50.4	233	189
	September	6,564	169	-70	2	6,662	3,338	50.1	237	191
	October	6,426	147	7	3	6,578	3,257	49.5	236	190
	November	6,564	148	-338	1	6,373	3,198	50.2	248	201
	December	6,586	197	-91	11	6,681	3,444	51.5	253	203
	AVERAGE	6,405	157	28	2	6,588	3,264	49.5		
1982	January	6,181	114	-358	18	5,920	3,033	51.2	262	214
	February	5,917	133	28	8	6,070	3,145	51.8	262	213
	March	6,004	183	469	44	6,612	3,396	51.4	248	199
	April	6,104	177	641	33	6,890	3,494	50.7	223	180
	May	6,322	163	188	23	6,650	3,415	51.3	215	174
	June	6,767	195	-136	14	6,812	3,561	52.3	220	178
	July	6,788	200	-165	24	6,799	3,574	52.6	226	183
	August	6,447	284	-60	16	6,655	3,520	52.9	226	185
	September	6,530	215	-217	22	6,507	3,385	52.0	234	191
	October	6,253	177	-25	15	6,391	3,360	52.6	234	192
	November	R6,273	206	91	11	R6,559	3,448	52.6	R230	189
	Decembert	6,447	NA	NA	NA	6,239	- NA	NA	237	NA
	AVERAGE	6,339	, NA	NA	NA	6,510	NA	NA		

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

*Beginning in 1981, excludes blending components.

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

*Includes gasohol.

*Includes motor gasoline blending components. Ending stocks for 1973–1979 are totals as of December 31.

*Italics denote preliminary data. R=Revised data. NA=Not available. (s)=Less than 500 barrels per day.

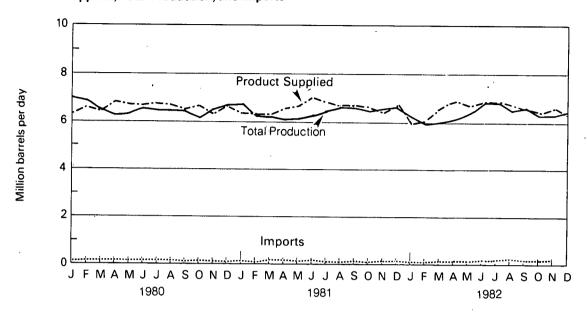
Notes: Beginning in 1981, survey forms were modified. See Note 2 on the last page of the section.

Annual stock changes for 1975 and 1981 were calculated using expanded stock coverage.

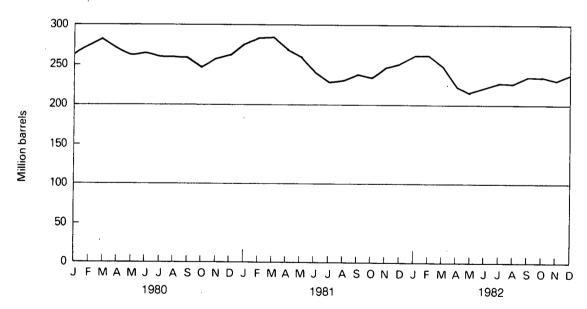
*Sources: *See Notes and Sources on the last page of this section.

Motor Gasoline

Product Supplied, Total Production, and Imports



Stocks



Distillate Fuel Oil Supply and Disposition

			Sup	ply		Dispo	Ending Stocks	
		Total Production	Imports	Stock Withdrawal ¹	Crude Used Directly	Exports	Product Supplied	****
				Thousand ba	rrels per day			Million barrels
1973	AVERAGE	2,822	392	-115	2	9 '	3,092	‡196
1974	AVERAGE	2,669	289	-9	2	2	2,948	‡200
1975	AVERAGE	2,654	155	40	2	1	2,851	‡209
1976	AVERAGE	2,924	146	62	1	1	3,133	‡186
1977	AVERAGE	3,278	250	-176	1	1	3,352	‡250
1978	AVERAGE	3,167	173	93	1 -	. 3	3,432	‡216
1979	AVERAGE	3,153	193	-34	1	3	3,311	‡229
1980	January	3,014	179	526	1	7	3,714	212
	February	2,766	237	716	1	8	3,712	192 ·
	March	2,558	193	445	1	19	3,179	178
	April	2,461	154	21	2	2	2,635	177
	May	2,474	126	199	1	1	2,402	183
	June	2,647	108	-439	1	(s)	2,317	197
	July	2,690	117	-557	2	3	2,249	214
	August	2,462	77	-403	2	(s)	2,137	226
	September	2,686	101	-201	2	(s)	2,587	232
	October	2,590	115	215	1	(s)	2,920	226
	November	2,703	133	111	i			222
	December		166	556	-	· (s)	2,949	
	AVERAGE	2,891 2,662	142	64	1 1 ·	(s) 3	3,615 2,866	205
4004		• •					•	470
1981	January	2,989	273	836	11	(s)	4,109	179
	February	2,809	325	246	11	17	3,373	173
	March	2,484	147	264	9	(s <u>)</u>	2,904	164
	April	2,418	116	-9	10	3	2,532	165
	May	2,454	179	-232	10	(s)	2,411	172
	June	2,501	225	-270	9	(s)	2,464	180
	July	2,395	179	-204	10	2	2,378	186
	August	2,656	174	-450	8	(s)	2,388	200
	September	2,610	129	-235	10	1	2,513	207
	October	2,485	119	197	9	5	2,803	201
	November	2,716	124	36	11	6	2,880	200
	December	2,856	95	277	11	26	3,212	192
	AVERAGE	2,613	173	38	10	5	2,829	
1982	January	2,615	96	780	10	90	3,410	166
	February	2,447	130	689	11	90	3,187	147
	March	2,294	48	612	10 ·	84	2,881	128
	April	2,357	59	631	13	64	2,996	109
	May	2,618	7,4	-184	10	75	2,444	114
	June	2,731	100	-335	10	55	2,450	125
	July	2,734	124	-761	11	24	2,084	148
	August	2,526	79	-346	10	40	2,228	159
	September	2,658	59	-77	12	139	2,514	161.
	October	2,837	97	-290	8	66	2,586	170
	November	R2,863	R141	R-514	8	24	R2,475	R186
	Decembert	2,706	147	32	. NA	NA	2,790	181
	AVERAGE	2,616	96	15	NA NA	NA		101
	AVERAGE	4,010	30	15	NA	NA	2,667	



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

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

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

Ending stocks for 1973–1979 are totals as of December 31.

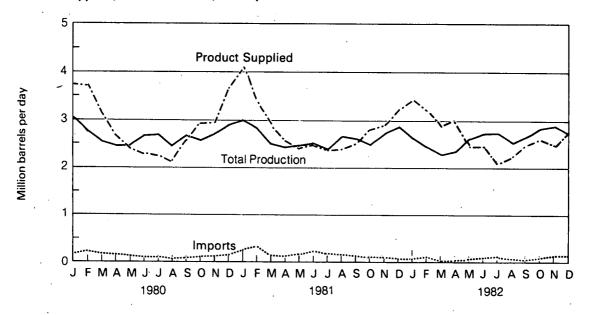
Italics denote preliminary data. R=Revised data. NA=Not available. (s)=Less than 500 barrels per day. Notes: Beginning in 1981, survey forms were modified. See Note 3 on the last page of this section.

Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

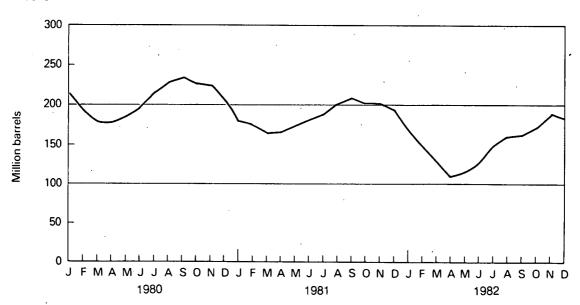
Sources: • See Notes and Sources on the last page of this section.

Distillate Fuel Oil

Product Supplied, Total Production, and Imports



Stocks



Residual Fuel Oil Supply and Disposition

			Supply			Dispo	Ending Stocks	
		Total Production	Imports	Stock Withdrawal ¹	Crude Used Directly	Exports	Product Supplied	
				Thousand ba	rrels per day			Million barrels
1973	AVERAGE	971	1,853	5	17	23	2,822	‡53
1974	AVERAGE	1,070	1,587	-17	13	14	2,639	‡60
1975	AVERAGE	1,235	1,223	2	15	15	2,462	‡74
1976	AVERAGE	1,377	1,413	5	17	12	2,801	‡ 72
1977	AVERAGE	1,754	1,359	-48	13	6	3,071	‡90
1978	AVERAGE	1,667	1,355	-1	13	13	3,023	‡90
1979	AVERAGE	1,687	1,151	-15	12	. 9	2,826	‡96
1980	January	1,771	1,338	-51	14	5	3,067	97
	February	1,773	1,122	214	-14	17	3,105	91
	March	1,584	976	87	14	2.	2,658	88
	April	1,595	775	102	13	40	2,444	85
	May	1,509	812	-78	.12	20	2,235	88
	June	1,575	749	-4	14	14	2,321	88
•	July	1,480	787	71	13	60	2,291	86
	August	1,444	875	-43	13	2	2,286	87
	September	1,495	906	-31	10	21	2,359	88
	October	1,512	875	-100	9	70		
	November	1,579	1,024	-74	10		2,227	91
	December	1,660	1,024	46		88	2,451	93
	AVERAGE	1,580	939	10	10 12	62 33	2,679 2,508	92
1981	January	1,612	1,015	302	32	65	2,896	82
	February	1,565	954	150	44	125	2,588	78
	March	1,424	699	100	48	145	2,126	75 75
	April	1,320	584	66	49	151	1,868	73 73
	May	1,223	741	-170	49	25	1,817	73 78
	June	1,232	540	291	49	76	2,037	
	July	1,174	830	. 2	48			69
	August	1,231	819	-179		82	1,971	69
	September	1,292	841		50 51	69	1,852	· 75
	October	1,238		-176	51	126	1,882	80
	November	1,236	786	8	54	202	1,884	80
	December		880	-49	53	203	1,909	81
	AVERAGE	1,329 1,321	916 800	110 37	52 48	157 118	2,250 2,088	. 78
1982	January	1,183	821	328	53	235	2,150	68
	February	1,136	928	358	53	213	2,261	58
	March	1,121	910	26	53	197	1,912	57
	April	1,162	762	124	52	234	1,867	54
	May	1,127	738	-175	52	191	1,551	
	June	1,077	643	-49	50 50	217	1,504	59 61
	July	1,029	576	51	49			
	August	1,025	519	200		239	1,466	59 50
	September	1,007	871		47	235	1,538	53
	October	954		-302 56	44	148	1,472	62
	November		758 D040	-56 D.05	43	234	1,466	64
		R989	R843	R-95	43	182	R1,597	R66
	Decembert	1,032	<i>558</i>	-148	NA	NA	1,297	<i>68</i>
	AVERAGE	1,068	742	20	NA	NA	1,669	

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

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

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

‡Ending stocks for 1973–1979 are totals as of December 31.

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

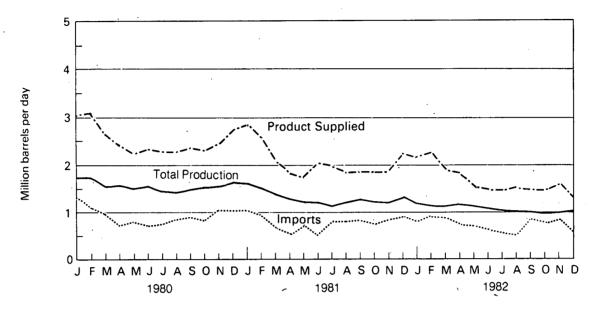
Notes: Beginning in 1981, survey forms were modified. See Note 3 on the last page of this section.

Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

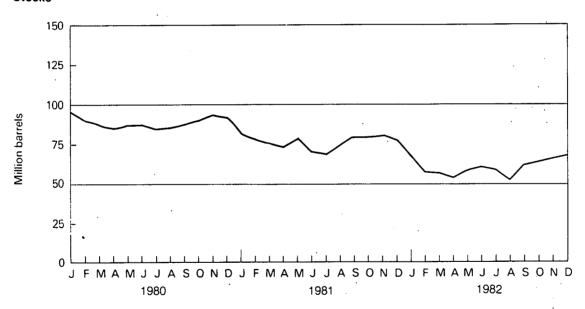
Sources: • See Notes and Sources on the last page of this section.

Residual Fuel Oil

Product Supplied, Total Production, and Imports



Stocks



Petroleum

Liquefied Petroleum Gases and Ethane Supply and Disposition

			Supply			Disposition	1	Ending Stocks
		Total Production	Imports	Stock Withdrawal ¹	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	‡113
1975	AVERAGE	1,527	112	-35	246	26	-	•
		•					1,333	‡12 5
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	January	1,560	264	461	291	30	1,963	96
	February	1,581	252	209	252	26	1,764	90
	March	1,519	214	7	211	23	1,506	90
	April	1,546	186	-339	171	19	1,203	100
	Мау	1,538	181	-224	182	17	1,295	107
	June	1,528	184	-319	170	18	1,205	117
	July	1,485	172	-283	209	18	1,147	126
	August	1,507	158	-296	203	17	1,149	135
	September	1,495	213	80	228	19	1,382	137
	October	1,546	249	86	259	24	1,597	134
	November	1,549	231	82	304	23	1,535	132
	December	1,567	289	373	319	23	1,888	120
	AVERAGE	1,535	216	-27	233	21	1,469	
1981	January	1,617	306	363	352	21	1,913	117
	February	1,593	327	173	303	21	1,769	112
	March	1,551	260	-4	257	20	1,530	112
	April	1,586	214	-236	231	26	1,308	119
	May	1,587	189	-258	220	19	1,279	127
	June	1,567	206	-208	237	24	1,304	133
	July	1,507	213	-258	215	17	1,229	141
	August	1,592	195	-242	235	149	1,160	149
	September	1,622	199	-75	287	21	1,438	151
	October	1,593	287	72	320	76	1,556	149
	November	1,571	280	86	383	58	1,495	146
	December	1,468	255	379	428	50	1,624	135
4000	AVERAGE	1,571	244	-18	289	42	1,466	
1982	January	1,546	314	480	398	67	1,873	122
	February	1,476	291	310	327	51	1,699	114
	March	1,523	223	145	289	74	1,528	109
	April	1,566	188	107	257	77	1,527	106
	May June	1,583 1,571	186	-61	235	43	1,431	108
	July		192	-109	262	106	1,286	111
	August	1,556 1,591	227	-5	253	37	1,487	111
	September	1,606	125 247	-44 22	254 272	61 05	1,357	112
	October	1,582	247 194	33 92	273 206	85	1,528	111
	November	1,603	267	92 172	306 370	81 27	1,481	109
	AVERAGE	1,564				37	1,634	103
	AVENAGE	1,504	222	101	293	65	1,529	

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

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

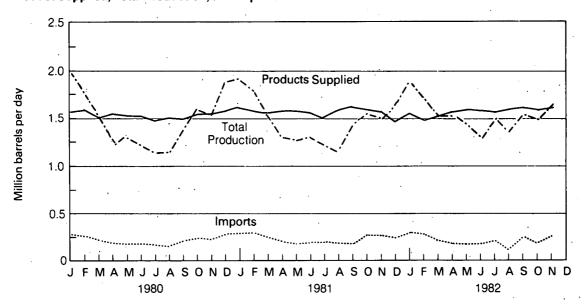
'A negative number indicates an increase in stocks and a positive number indicates a decrease.

Ending stocks for 1973–1979 are totals as of December 31.

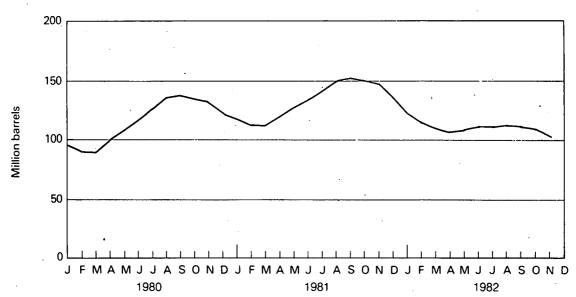
Sources: • See Notes and Sources on the last page of this section.

Liquefied Petroleum Gases and Ethane

Product Supplied, Total Production, and Imports



Stocks



Petroleum Other Petroleum Products¹ Supply and Disposition

		Supply				Ending Stocks		
	•	Total Production	Imports	Stock Withdrawal ²	Refinery Inputs	Exports	Product Supplied	
				Thousand bar	rels per day			Million barrels
1973	AVERAGE	3,693	502	-9	750	166	3,270	‡208
1974	AVERAGE	3,558	432	-28	665	174	3,123	‡218
1975	AVERAGE	3,424	277	-2	537	160	3,002	1219
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	‡235 ‡225
1979	AVERAGE	4,153	195	-37	352	209		•
		•					3,749	‡ 238
1980	January	4,157	269	135	591	186	3,785	234
	February	4,181	167	-153	380	174	3,641	239
	March	4,128	219	-370	149	200	3,627	250
	April	4,105	238	-374	86	180	3,703	261
	May	4,018	222	-301	135	227	3,577	271
	June	4,016	226	-49	250	256	3,687	272
	July	3,873	188	82	356	209	3,578	270
	August	3,753	139	212	351	221	3,532	263
	September	3,952	206	25	234	188	3,761	262
	October	3,737	220	175	351	193	3,588	257
	November	3,787	213	156	475	148	3,533	252
	December	3,792	209	151	362	194	3,596	247
	AVERAGE	3,956	210	-23	311	198	3,634	
1981	January	3,821	162	80	851	132	3,081	296
	February	3,723	182	-200	538	208	2,958	302
	March	3,722	230	-55	642	210	3,043	304
	April	3,711	230	24	733	192	3,040	303
	May	3,892	229	-58	594	238	3,231	305
	June	3,925	218	-29	656	197	3,261	306
	July	3,852	149	284	791	212	3,282	297
	August	3,876	276	-33	676	219	3,225	298
	September	3,718	286	215	883	176	3,159	291
	October	3,503	241	193	710	227	3,000	285
	November	3,579	262	33	784	154	2,935	284
	December	3,543	243	71	805	223	2,829	282
	AVERAGE	3,739	226	46	723	199	3,088	
1982	January	3,181	240	-102	602	180	2,536	284
	February	3,364	260	-116	646	138	2,724	287
	March	3,485	241	-204	734	161	2,627	294
	April	3,394	287	91	801	204	2,767	291
	May	3,296	309	198	823	210	2,769	285
	June	3,481	315	115	815	216	2,879	281
	July	3,578	391	15	862	187	2,935	281
	August	3,519	329	256	841	202	3,060	273
	September	3,442	365	74	767	213	2,901	271
	October	3,472	367	223	901	266	2,896	264
	November	3,464	406	-12	824	269	2,766	264
	AVERAGE	3,464	319	50	784	205	2,806	

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

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

*Includes natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, liquefied petroleum gases, and ethane.

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

‡Ending stocks for 1973–1979 are totals as of December 31.

Note: Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

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

Notes and Sources for the Petroleum Section

Notes

1. Research conducted by the Energy Information Administration (EIA) in the latter half of 1980 indicated changes had taken place in the petroleum industry that were not being adequately reflected in the EIA survey forms. First, the flows of unfinished oils and the redesignation of finished products were not being accurately described on the EIA survey forms. Second, a substantial amount of motor gasoline was being produced at non-refinery "downstream blending stations" but was not being reported. Although empirical information is not available to precisely measure the historical effects, estimates of the magnitude of the differences in the major series affected are shown in the EIA, Petroleum Supply Monthly. Beginning in January 1981, the EIA modified its survey forms, changed definitions of gasoline (motor and aviation), and added the non-refinery blenders previously not reported.

previously not reported.

2. Motor Gasoline: Beginning in January 1981, the EIA expanded its universe to include non-refinery blenders; redefined motor gasoline into three categories (finished leaded, finished unleaded, and gasohol); and separated blending components from finished motor gasoline as a reporting category. Also, survey forms were modified to more accurately describe refinery operations. For further details see the EIA, Petroleum Supply Monthly.

3. Distillate and Residual Fuel Oils: Previous to January 1981, the refinery input of unfinished oils number typically exceeded the number for available supply of unfinished oils. This was assumed to be due to the redesignation of distillate and residual

fuel oils received as such, but used as an unfinished oil input by the receiving refinery. This imbalance between supply and disposition of unfinished oils would then be subtracted from the production of distillate and residual fuel oils. Two-thirds of this difference was subtracted from distillate and one-third from residual. Beginning in January 1981, the EIA modified its survey forms to account for redesignated product and discontinued the above-mentioned adjustment. For further details see the EIA, Petroleum Supply Monthly.

Sources

• 1973 through 1976: Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual" (except unleaded gasoline)

and "PAD Districts Supply/Demand, Annual."

• Unleaded gasoline—1977 through 1980: Energy Information Administration (EIA), Monthly Petroleum Statistics Report.

• 1977 through 1981: EIA, Energy Data Reports, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand,

Annual."

January 1982 through November 1982: EIA, *Petroleum Supply Monthly.*Data for the most recent month are estimates based on EIA weekly data (except domestic production).

 Data for the most recent month are estimates based on EIA weekly data (except domestic production).
 Domestic production for the most recent month is an EIA estimate based on historical data from State Conservation Agencies and the U.S. Geological Survey.
 Sources for the Energy Data Reports, the Petroleum Supply Monthly, and the Monthly Petroleum Statistics Report are: EIA Forms EIA-64 (Natural Gas Liquids Operations Report), EIA-87 (Refinery Report), EIA-88 (Bulk Terminals Report), EIA-89 (Pipeline Report), and EIA-90 (Crude Oil Stock Report); Economic Regulatory Administration (ERA) Forms ERA-60 (Imports) and FEA P133 (Imports from Puerto Rico); Bureau of the Census IM 145 (Imports), EM 522 (Exports), and EM 594 (Exports); U.S. Geological Survey (Crude Production); and State Conservation Agencies (Crude Production).

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Natural Gas

Total dry natural gas production, including nonhydrocarbon gases, in the United States during December 1982 was an estimated 1.5 trillion cubic feet (Tcf). This. was 12.6 percent lower than in December 1981. Estimated output during 1982 totaled 17.7 Tcf, 8.7 percent below the 1981 level and the lowest since 1967.

Consumption of natural and supplemental gas in December 1982 was an estimated 1.7 Tcf, 16.8 percent lower than in December 1981. Estimated consumption during 1982 totaled 17.8 Tcf, 8.1 percent less than during the previous year.

Imports of natural gas in December 1982 were an estimated 107 billion cubic feet (Bcf), 15.1 percent higher than in the previous December. Total imports of natural gas during 1982 were an estimated 970 Bcf, 7.3 percent more than during 1981. Receipts of foreign gas during December 1982 included Algerian liquefied natural gas (LNG) equivalent to approximately 15 Bcf, 5 times the quantity received in the previous December. Total imports of Algerian LNG during 1982 were approximately 54 Bcf, 46.0 percent above those in 1981. Exports of natural gas in 1982 totaled an estimated 55 Bcf, 6.8 percent lower than in 1981.

Domestic producer sales to major interstate pipelines in October 1982 (latest data available) totaled 765 Bcf, 13.9 percent lower than during the previous October. Total sales during the first 10 months of 1982 were 8.4 Tcf, 6.1 percent lower than during the comparable 1981 period.

Stocks of working gas* in underground natural gas storage reservoirs at the end of December 1982 totaled 3.1 Tcf. This was 9.1 percent above stocks available a year earlier. Net withdrawals from storage during December 1982 were 202 Bcf, 42.8 percent lower than during the previous December.

Natural Gas

^{*}Gas available for withdrawal.

Natural Gas

		Production			_				Domestic
		Total Marketed ¹	Total Dry²	Nonhydro- carbon Gases Removed	Supplemental Gaseous Fuels	al Total Domestic Consumption ³	Imports	Exports	Producer Sales to Major Interstate Pipelines
		•			Billion cub	ic feet			
1973	TOTAL	22,648	21,731	NA	NA	22,049	1,033	. 77	12,067
1974	TOTAL	21,601	20,713	NA	NA	21,223	959	77	11,462
1975	TOTAL	20,109	19,236	NA	NA	19,538	953	73	10,652
1976	TOTAL	19,952	19,098	NA	NA	19,946	964	65	10,140
1977	TOTAL	20,025	19,163	NA	NA	19,521	1,011	56	9,883
1978	TOTAL	19,974	19,122	NA	NA	19,627	966	53	9,911
1979	TOTAL	20,471	19,663	NA NA	NA	20,241	1,253	56	10,496
1980	January	1,838	1,768	. 17	17	2,238	118	6	981
	February	1,725	1,659	16	16	2,147	108	5	898
	March	1,847	1,776	16	16	2,054	109	5	958
	April	1,686	1,622	15	12	1,535	77	3	895
	May	1,712	1,647	17	11	1,357	70	3	851
	June	1,602	1,541	15	10	1,255	61	3	791
	July	1,633	1,571	16	10	1,295	61	3	822
	•	1,592	1,531	16	10	1,282	60	3	825
	August			16	10	1,299	60	5	797
	September	1,596	1,535		12	•		5	
	October	1,663	1,600	14		1,522	75	5	891
	November	1,669	1,605	16	14	1,761	88	3	900
	December	1,816	1,747	18	16	2,129	98	5	969
	TOTAL	20,379	19,602	195	155	19,877	985	49	10,578
1981	January	1,772	1,704	20	20	2,279	91	· 5	962
	February	1,591	1,530	17	17	1,894	-	. 5	869
	March	1,753	1,686	18	17	1,900	80	5	942
	April	1,692	1,627	17	14	1,489	69	5	900
	May	1,716	1,650	18	13	1,426	62	4	909
	June	1,653	1,590	19	12	1,309	65	5	. 877
	July	1,683	1,618	20	12	1,315	66	5	889
	August	1,724	1,658	18	12	1,314	64	5	864
	September	1,595	1,534	18	12	1,266	67	6	869
	October	1,660	1,596	17	14	1,518	79	5	889
	November -	1,600	1,539	17	15	1,619	82	5	904
	December	1,738	1,671	19	19	2,077	93	5	1,055
	TOTAL	20,178	19,403	217	176	19,404	904	59	10,929
1982	January	1,725	1,659	18	21	2,366	104	6	969
	February	1,583	1,522	18	18	1,967	94	5	901
	March	1,670	1,606	18	16	1,823	90	5	909
	April	1,575	1,515	17	13	1,472	77	4	853
	May	1,547	1,488	16	11	1,139	69	4	886
	June	1,500	1,442	15	10	1,121	67	4	814
	July	1,520	1,462	15	11	1,143	67	5	778
	August	1,488	1,431	17	11	1,153	64	4	793
	September	1,426	1,371	15	11	1,141	67	5	753
	October	R1,453	R1,397	R15	12	R1,299	76	5	765
	November	R1,417	R1,363	R15	R13	R1,489	:R88	4	NA NA
	December	1,519	1,461	16	16	1,728	107	4	NA NA
	TOTAL				163				
	IUIAL	18,423	17,717	195	163	17,841	970	55	NA

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

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

Includes nonhydrocarbon gases removed such as carbon dioxide, hydrogen sulfide, helium, and nitrogen. See Note 1 on page 55.

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

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

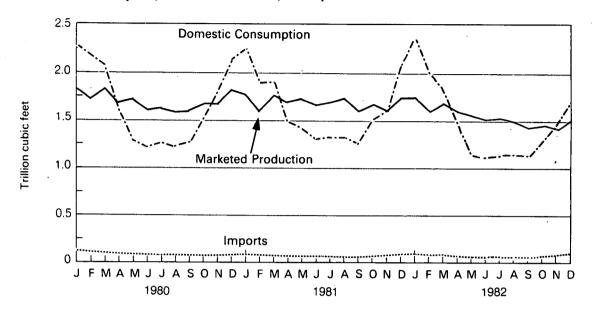
R = Revised data. NA = Not available.

Note: Estimated data are in italics and are likely to be revised.

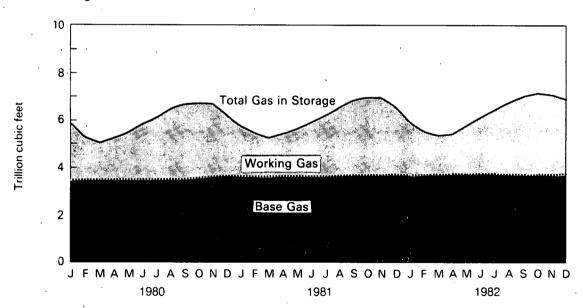
Sources: • See the last page of this section.

Natural Gas

Domestic Consumption, Marketed Production, and Imports



Gas in Storage



Natural Gas

Natural Gas in Underground Storage¹

		Total Gas					Net
		in Storage	Base Gas	Working Gas	Storage Injections	Storage Withdrawals	Storage Injections ²
				Billion c	ubic feet	•	
1973	TOTAL	‡4,898	‡2,864	‡2,034	NA	NA	NA
1974	TOTAL	‡ 4,962	‡2,912	‡2,050	NA	NA	NA
1975	TOTAL	‡5,374	‡3,162	‡2,212	NA	NA	. NA
1976	TOTAL	‡5,250	‡3,323	‡1,926	1,960	2,114	(154)
1977	TOTAL	‡5,866	‡3,391	‡2,475	2,401	1,773	628
1978	·TOTAL	‡ 6,020	‡3,473	‡2,547	2,338	2,186	151
1979	TOTAL	‡ 6,30 6	‡3,553	‡2,753	2,370	2,044	327
1980	January	5,873	3,549	2,324	21	424	(403)
	February	5,402	3,550	1,852	24	451	(427)
	March	5,150	3,556	1,594	59	283	(224)
	April	5,275	3,584	1,691	167	65	102
	May	5,588	3,590	1,998	298	9	289
	June	5,895	3,596	2,299	293	14	278
	July	6,187	3,600	2,587	286	19	267
	August	6,462	3,608	2,854	273	29	244
	September	6,713	3,613	3,099	240	11	229
	October	6,805	3,619	3,187	138	47	91
	November	6,663	3,637	3,026	65	188	(123)
	December	6,297	3,642	2,655	34	371	(337)
1981	January	5,795	3,642	2,152	37	558	(521)
	February	5,472	3,648	1,824	59	376	· (317)
	March	5,285	3,654	1,631	55	234	(179)
	April	5,434	3,670	1,764	208	55	153
	May	5,660	3,684	1,977	255	26	228
	June	5,933	3,681	2,252	314	27	287
	July	6,205	3,649	2,556	335	26	309
	August	6,595	3,713	2,882	361	15	346
	September	6,872	3,720	3,152	287	9	277
	October	6,974	3,726	3,247	155	50	104
	November	6,931	3,731 2,752	3,200	80	124	(44)
	December	6,568	3,752	2,815	34	387	(353)
1982	January	5,932	3,751	2,181	24	673	(648)
	February	5,536	3,750	1,786	50	446	(396)
	March	5,36 9	3,766	1,603	88	264	(177)
	April	5,452	3,777	1,675	180	107	73
	May	5,813	3,780	2,033	380	11	369
	June	6,146	3,777	2,368	350	11	339
	July	6,485	3,779	2,706	351	12	.339
	August	6,781	3,780	3,001	328	33	295
	September	7,032	3,782	3,251	271	19	251
	October	7,147	3,785	3,362	188	59	128
	November	7,079	3,770	3,309	81	160	(80)
	December	6,877	3,805	3,072	87	289	(202)

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

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

See Note 2 on the last page of this section.

Net storage injections are storage injections minus storage withdrawals. Parentheses indicate withdrawals greater than injections.

Total as of December 31. NA=Not available.

Sources: • See the last page of this section.

Notes and Sources for the Natural Gas Section

Notes

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

amounts of supplemental gaseous fuels included in domestic consumption are provided.

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

2. The Federal Energy Administration and Federal Power Commission began the coordinated collection and compilation of

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

operations is not available for prior periods.

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

Sources

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

Domestic Production: 1973 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Natural Gas" chapter; 1976 through 1979: Energy Information Administration (EIA), *Energy Data Report*, "Natural Gas Production and Consumption"; 1980 and 1981: EIA, *Natural Gas Annual*: January 1982 forward: State reports to the Interstate Oil Compact Commission, data from the U.S. Minerals Management Service, and EIA estimates for States that do not report monthly data on a regular or timely basis.

Domestic Producer Sales: EIA, FERC Form 11, "Natural Gas Pipeline Company Monthly Statement."
Imports: 1973 through 1981: EIA, FPC Form 14, "Imports and Exports of Natural Gas"; January 1982 forward: EIA estimates based on import data from FERC Form 11.

Exports: 1973 through 1981: EIA, FPC Form 14; January 1982 forward: EIA estimates based primarily on historical data

reported on FPC Form 14.

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

Oil and Gas Resource Development

The December 1982 rotary rig count of 2,696 was 40.4 percent lower than the December 1981 alltime record count of 4,520 but 7.8 percent higher than the November 1982 count. The 214 rigs operating offshore were 24.4 percent fewer than the 283 rigs working in December 1981. Rotary rig productivity, as measured by the footage drilled per rig, increased 40.2 percent during 1982 as inefficient rigs were retired.

The reported wells drilled in 1982 reached an alltime high of 85,855, a 9.3-percent increase from the 78,538 reported during 1981. This increase in wells drilled does not parallel the declining trend for rotary rig activity. The divergence is attributed principally to the increase in rotary rig productivity and to delays of up to several months in reporting wells drilled.

Reported oil well completions during 1982 were 40,334, a 7.1-percent increase from 1981 (37,671 reported). During 1982, 18,975 gas well completions were reported, a 6.0-percent increase from 1981 (17,894 reported). Total reported footage drilled in 1982 increased 9.7 percent from the previous year (396.4 million feet as compared with 361.4 million feet).

The 477 crews engaged in seismic exploration during December 1982 were 32.1 percent fewer than in December 1981. The 428 crews active onshore during December 1982 were 34.8 percent fewer than during December 1981. The 49 crews active offshore during December 1982 were 4.3 percent more than during December 1981.

Oil and Gas Resource Development

		Rotary Rigs in Operation ¹	ļ	Ex	ploratory a Wells	oment	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	January	2,571		1,436	782	1,240	3,458	16,475
	February	2,613		1,635	1,000	1,297	3,932	18,891,
	March	2,658		2,390	1,834	1,542	5,766	27,691
	April	2,682		1,841	1,121	1,158	4,120	18,855
	Мау	2,797		2,059	1,070	1,191	4,320	19,899
	June	2,850		2,228	1,282	1,451	4,961	24,479
	July	2,953		2,079	1,042	1,337	4,458	21,734
	August	3,045		2,357	1,275	1,539	5,171	24,112
	September	3,099		2,641	1,720	1,767	6,128	28,171
	October	3,148		2,417	1,190	1,697	5,304	24,600
	November	3,220		2,258	1,503	1,617	5,378	25,417
	December	3,286		3,685	1,910	2,257	7,852	34,161
	AVERAGE	2,909	TOTAL	27,026	15,730	18,089	60,845	284,461
1981	January	3,386		1,794	964	1,339	4,097	19,907
	February	3,502	Į.	2,459	1,046	1,610	5,115	22,726
	March	3,595		3,099	1,423	1,883	6,405	30,166
	April	3,728		2,905	1,600	1,546	6,051	27,836
	May	3,816		2,604	1,159	1,675	5,438	24,842
	June	- 3,926		3,497	1,320	2,105	6,922	31,689
	July	3,998		2,790	1,116	1,698	•	
	August	4,131					5,604	25,542
	September			3,140	1,260	1,874	6,274	28,933
	October	4,242 4,352		3,414	1,978	2,014	7,406	33,630
	November			3,772	1,879	2,099	7,750	35,520
		4,436		3,591	1,584	2,069	7,244	32,263
	December	4,520		R4,619	R2,586	R3,078	R10,283	R48,594
4000	AVERAGE	3,970	TOTAL	37,671	17,894	22,973	78,538	361,407
1982	January	4,436		2,790	957	2,143	5,890	28,288
	February	4,160		3,049	1,433	2,245	6,727	32,085
	March	3,816		3,750	1,487	2,499	7,736	38,093
	April	3,460	ŀ	3,683	1,546	2,289	7,518	36,489
	May	3,178		3,459	1,948	2,215	7,622	37,049
	June	2,908	~	3,899	1,892	2,524	8,315	39,008
	July	2,746		3,286	1,705	1,929	6,920	31,202
	August	2,620		2,848	1,575	1,903	6,326	28,556
	September	2,482		3,360	1,592	2,331	7,283	32,538
	October	2,402		2,838	1,220	2,136	6,194	27,447
	November	2,500		3,282	1,662	2,020	6.964	31,141
	December	2,696		4,090	1,966	2,361	8,417 ·	34,737
	AVERAGE		TOTAL					
	AVERAGE	3,105	TOTAL	40,334	18,975	26,546	85,855	396,378

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

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

These data are for operating rotary rigs reported by the Hughes Tool Company during the reporting period. Monthly figures are averages of a 4- or 5-week reporting period and are not calendar months.

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

Oil and Gas Resource Development

Crews Engaged in Seismic Exploration

Line-Miles of Seismic Exploration

						Colstille Exploration		40011
		Offshore	Onshore	Total		Offshore ¹	Onshore ¹	Total
		Мо	nthly averag	je			Annual total	
1973	AVERAGE	23	227	250		258,944	127,160	386,104
1974	AVERAGE	31	274	305		341,784	158,629	500,413
1975	AVERAGE	30	254	284		309,283	150,694	459,977
1976	AVERAGE	25	237	262		226,303	142,926	369,229
1977	AVERAGE	27	281	308		124,676	120,072	244,748
1978	AVERAGE	25	327	352		174,607	135,899	310,506
1979	AVERAGE	30	370	400	٠.	193,212	163,929	357,141
1980	January	29	439	468		·	,	,
	February	-29	440	469				
	March	29	448	477				
	April	31	465	496				i,
	May	34	468	502				
	June	39	496	535				
	July	42	514	556			•	
	August	44	521	565	. -			
	September	44	523	567	- 1			
	October	41	530	571	'			
	November	41	531	572	- 1			•
	December	40	540	580				
	AVERAGE	37	493	530		202,694	184,088	386,782
1981	January	38	553	591				
	February	41	561	602		•		
	March	40 .	570	610				
	April	40	605	645	- 1			
	May	42	619	661				
	June	44	652	696	.		•	
	July	43	668	711				
	August	46	689	735	- 1	•		
•	September October	47	697	744	ŀ			
	November	52 50	689	741				•
	December	52 47	681 656	733				
	AVERAGE	44	637	703 681		338,201	256,201	594,402
1982	January	53	642	695			200,201	001,102
•	February	53	625	678				
	March	52	.597	649	1			
	April	55	571	626				
	May	61	551	612	,			
	June	69	546	615	ı			
	July	66	527	593				
	August	62	500	562	- 1			e .
	September	59	476	535	-			_
	October	51	465	516				•
	November	50	452	502				
	December	49	428	477				
	AVERAGE .	57 .	531	588				

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

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

'Monthly data not available.

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

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Coal

Coal production in December 1982 was 60.5 million short tons, 20.8 percent less than the 76.4 million short tons produced in December 1981. Output for calendar year 1982 totaled 824.0 million short tons, only slightly above the 823.8 million short tons produced in 1981.

Electric utility coal consumption in November 1982 totaled 47.8 million short tons, 1.7 percent higher than consumption in November 1981.

Electric utility coal stocks of 181.9 million short tons at the end of November 1982 were 14.9 million short tons (8.9 percent) above the level 1 year earlier.

Imports of coal in November 1982 totaled 87 thousand short tons. Exports of coal in November 1982 totaled 7.8 million short tons, 34.1 percent less than the amount exported during November 1981. Coal exports in November 1982 were principally to Europe (47.5 percent), Canada (27.4 percent), and Japan (20.5 percent).

Part 6

Coal

Coal Bituminous Coal, Lignite, and Anthracite

		Production	Domestic Consumption	Imports ¹	Exports ²	Stocks ³
			Tho	usand short tons		
1973	TOTAL	598,568	562,584	127	53,587	104,335
1974	TOTAL	610,023	558,402	2,080	60,661	96,323
1975	TOTAL	654,641	562,641	940	66,309	128,050
1976	TOTAL	684,913	603,790	1,203	60,021	134,438
1977	· TOTAL	697,205	625,291	1,647	54,312	157,098
1978	TOTAL	670,164	625,225	2,953	40,714	145,551
1979	TOTAL	781,134	680,524	2,059	66,042	181,646
1980	January	69,594	63,517	121	4,460	179,450
	February	65,546	59,679	193	4,041	176,808
	March	70,953	58,852	93	5,633	176,649
	April	69,658	52,636	63	7,563	185,367
	May	71,043	52,834	207	8,597	193,920
		71,338	56,098	104	8,899	199,299
	June		•	32	8,247	187,913
	July	61,285	63,122	166	9.270	•
	August	68,399	62,752			190,689
	September	68,822	57,306	2	8,364	194,447
	October	72,290	55,775	139	9,454	201,975
	November	68,655	56,799	3	8,987	204,436
	December	72,117	63,359	70	8,228	204,028
	TOTAL	829,700	702,730	1,194	91,742	
1981	January	65,927	67,580	35	5,795	198,603
1301	•	70,918	59,735	104	6,771	197,962
	February		60,069	77	9,710	207,340
	March	78,266	· ·	63	•	•
	April	36,253	54,649		8,271	187,143
	Мау	38,100	55,025	96	6,086	168,126
	June	61,555	59,685	138	6,158	158,274
	July	74,076	67,394	13	10,762	154,423
	August	78,782	65,896	150	11,315	157,141
	September	81,720	59,722	69	11,900	164,970
	October	85,241	59,161	94	12,360	175,384
	November	76,577	58,695	76	11,849	183,044
	December	76,360	65,017	127	11,564	185,274
	TOTAL	823,775	732,627	1,043	112,541	100,274
1982	January†	66,073	69,177	71	6,177	173,833
1302		70,002	59,751	30	8,964	173,193
	February†			12		179,171
	March†	82,668	58,243		10,423	· ·
	April†	72,706	53,267	10	10,831	186,458
	May†	70,262	54,839	109	10,110	192,926
	June†	70,827	55,944	9	10,680	198,376
	July†	59,458	63,924	69	9,182	189,996
	August†	71,738	63,477	10	7,385	190,310
	September†	66,820	56,750	71	8,683	189,854
	October†	69,223	NA	66	9,972	NA
	November†	63,712	NA.	87	7,807	NA
	· ·	60,511	NA NA	NA	NA NA	NA
	December†	•				
•	"TOTAL	824,000	NA	NA	NA	NA

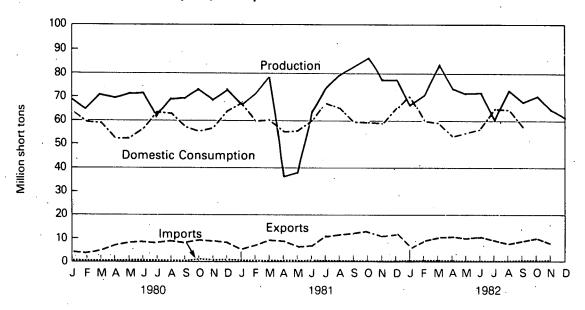
Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
See Note on the last page of this section for methodology used to calculate production, consumption, and stocks.
Bituminous coal was the only type of coal imported during the years shown above.
Excludes shipments of anthracite to U.S. Armed Forces overseas (340,000 short tons in 1980).
Stocks held by electric utilities, coke plants, and general industry at the end of period. Excludes stocks at retail dealers that are consumed by the residential and commercial sector.
Preliminary data. NA=Not available.

Sources: • See the last page of this section.

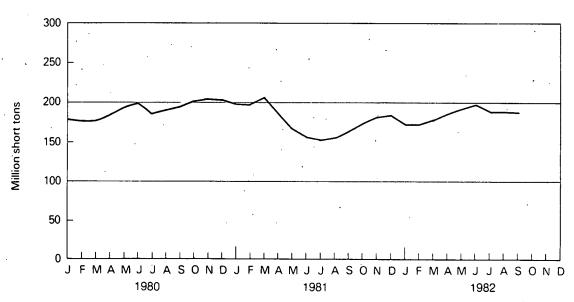
Coal

Bituminous Coal, Lignite, and Anthracite

Production, Consumption, Imports, and Exports



Stocks



Coal Consumption—Bituminous Coal, Lignite, and Anthracite

Industrial

			ilidustriai .			
		Electric Utilities	Coke Plants ¹	Other Industrial ² 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	January	50,371	6,339	5,944	864	63,517
	February	47,512	6,010	5,400	756	59,679
	March	46,685	6,429	5,199	539	58,852
	April	40,692	6,247	5,118	578	52,636
	May	41,464	6,127	4,894	349	52,834
	June	45,821	5,326	4,675	276	56,098
	July	53,655	4,903	4,222	342	
	August	53,214	4,903	4,337	323	63,122
	September	47,913	4,794	4,337 4,170	429	62,752
	October	45,092	5,107	4,170 4,990	585	57,306
	November	•				55,775 56,700
	December	45,698 51,157	5,152	5,331	619	56,799
	TOTAL	51,157 569,274	5,343 66,657	6,067 60,347	792 6,451	63,359 702,730
1981	January	54,688	5,465	6,532	895	67,580
1301	February	47,914	5,405 5,177	5,932	712	•
	March	48,398	5,532	•		59,735
	April	43,677	4,862	5,665	474	60,069
	May	44,999	4,862 4,259	5,548 5:207	562	54,649
	June	•		5,297	470	55,025
	July	50,080 56,144	4,460	4,845	300	59,685
	August	56,144 54,483	5,449 5,434	5,371	430	67,394
	September	48,483	5,434 5,340	5,520	459	65,896
	October	47,800		5,312 5,577	587	59,722
	November	-	5,158 5,007	5,577 5,700	626	59,161
	December	47,014 52,116	5,037	5,793	851	58,695
	TOTAL	53,116 596,797	4,842 61,014	6,003 67,395	1,056 7,421	65,017 732,627
1982	lancens.	•				•
1902	January†	57,284	4,444	6,474	975	69,177
	February†	48,878	4,340	5,858	675	59,751
	March†	47,884	4,173	5,641	545	58,243
	April†	43,490	3,708	5,382	687	53,267
	May†	45,622	3,622	5,143	452	54,839
	June†	47,424 55.010	3,481	4,691	348	55,944
	July†	55,313 54,755	3,121	4,862	628	63,924
	August†	54,755	3,058	4,994	670	63,477
	September†	48,399	2,924	4,790	637	56,750
	October†	46,330	NA	NA	NA	NA
	November†	47,799	NA	NA	NA	NA

Geographic coverage: the 50 United States and the District of Columbia. Totals may not equal sum of components due to independent rounding. ¹Bituminous coal and anthracite only. Lignite is not used at coke plants. ²See Note on the last page of this section. †Preliminary data. NA = Not available. Sources: • See the last page of this section.

Coal Stocks¹—Bituminous Coal, Lignite, and Anthracite

		_	Indu	ıstrial		
		Electric Utilities	Coke Plants ²	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	January February March	158,717 157,124 157,625	9,634 9,263	11,099 10,421	179,450 176,808	
	April	165,817	9,317 9,579	9,707 9,971	176,649 185,367	
	May	174,029	9,692	10,199	193,920	
	June	178,959	9,913	10,427	199,299	
	July	168,806	8,427	10,680	187,913	
	August September	171,891 175,067	7,866	10,932	190,689	
	October	182,045	8,213 8,488	11,167 11,442	194,447	
	November	184,133	8,606	11,697	201,975 204,436	
	December	183,010	9,067	11,951	204,438	
1981	January	176,975	9,634	11,994	198,603	
	February	175,715	10,211	12,036	197,962	
	March	183,983	10,788	12,569	207,340	
	April	169,221	6,952	10,970	187,143	
	May	153,415	4,850	9,861	168,126	
	June	144,520	4,500	9,254	158,274	
	July	140,124	5,074	9,225	154,423	
	August	142,318	5,648	9,175	157,141	
	September October	149,526	6,163	9,281	164,970	
	November	159,676 167,002	6,308	9,400	175,384	
	December	168,893	6,392 6,475	9,650 9,906	183,044 185,274	
1982	January†	158,371	6,207	9,255	173,833	
	February†	158,136	5,909	9,148	173,193	
	Marcht	164,518	5,612	9,041	179,171	
	April†	171,390	5,931	9,137	186,458	
	May†	177,461	6,231	9,234	192,926	
*	June†	182,513	6,532	9,330	198,376	
	July†	174,502	6,166	9,328	189,996	
	August†	175,194	5,800	9,316	190,310	
	September†	175,112	5,434	9,308	189,854	
	Octobert	179,871	NA NA	NA	NA	

181,871

NA

NA

NA

Novembert

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

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

Stocks held by electric utilities, coke plants, and general industry at end of period.

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

Total excludes stocks at retail dealers that are consumed by the residential and commercial sector.

Treliminary data. NA = Not available.

Sources: • See the last page of this section.

Notes and Sources for the Coal Section

Note

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

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

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

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

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

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

where S_b = beginning stocks R = receipts

S_o = ending stocks.

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

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

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

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

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

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

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

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

Sources

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

- 6, "Coal Distribution Report."
 Consumption and Stocks: 1973 through September 1977: Bureau of Mines, Minerals Yearbook and Mineral Industry Surveys;
 Electric Utilities—October 1977 forward: EIA, EIA Form 759 (formerly FPC Form 4), "Monthly Power Plant Report."
 Other Industrial—October 1977 through December 1979: EIA, EIA Form 3, "Monthly Fuel Consumption Report Manufacturing Plants"; January 1980 forward: EIA, EIA Form 3, "Quarterly Fuel Consumption Report Manufacturing Plants" and EIA Form 6, "Coal Distribution Report."
 Coke Plants—October 1977 through December 1980: EIA, EIA Form 5/5A, "Coke and Coal Chemicals Monthly/Annual"; January 1981 forward: EIA, EIA Form 5/5A, "Coke and Coal Chemicals Quarterly/Annual."
 Residential and Commercial—October 1977 through December 1979: EIA, EIA Form 2, "Monthly Coal Report, Retail Dealers and Upper Lake Docks"; January 1980 forward: EIA, EIA Form 6, "Coal Distribution Report."
 Imports/Exports: 1973 through September 1977: Bureau of Mines, Minerals Yearbook and Mineral Industry Surveys; October 1977 forward: Bureau of the Census, Monthly Reports IM-145 (Imports) and EM-522 (Exports).

1977 forward: Bureau of the Census, Monthly Reports IM-145 (Imports) and EM-522 (Exports).

November 1982 production of electricity by utilities was 173.4 billion kilowatt-hours, 1.2 percent lower than the November 1981 production level. Coal-fired production totaled 95.5 billion kilowatt-hours, 0.7 percent higher than the November 1981 level. Hydroelectric production totaled 23.3 billion kilowatt-hours, 22.9 percent above the November 1981 level. Nuclear production was 23.2 billion kilowatt-hours in November 1982, 2.0 percent above the November 1981 level. Natural gas-fired production was 21.5 billion kilowatt-hours, 13.0 percent below the level 1 year earlier. Petroleum-fired production totaled 9.3 billion kilowatt-hours, 32.7 percent below the November 1981 level.

Sales of electricity to all ultimate consumers in the United States in November 1982 were 160.5 billion kilowatt-hours, 2.7 percent below November 1981 sales. Sales to residential consumers during November 1982 were 52.1 billion kilowatt-hours, 0.3 percent above the level of sales for the same month in 1981. Commercial sales were 40.6 billion kilowatt-hours, 2.1 percent more than the amount sold to commercial consumers in

November 1981. Sales to industrial consumers totaled 60.7 billion kilowatt-hours in November 1982, 8.3 percent less than the 1981 figure. In November 1982, other sales totaled 7.1 billion kilowatt-hours, 0.3 percent below the November 1981 level.

Electric utility petroleum consumption (excluding petroleum coke) during November 1982 was 15.9 million barrels, a 31.3-percent drop from the November 1981 level. Coal consumption for November 1982 was 47.8 million short tons, 1.7 percent above the November 1981 rate. During November 1982, consumption of natural gas by electric utilities was 226.3 billion cubic feet, 12.6 percent below the November 1981 consumption level.

On November 30, 1982, utility stocks of anthracite, bituminous coal, and lignite totaled 181.9 million short tons. Stockpiles were 8.9 percent above the level of November 1981. Petroleum stocks (excluding petroleum coke) on November 30, 1982, totaled 119.3 million barrels, 6.0 percent below the level on the same date in 1981.









Net Electricity Generation by Primary Energy Source

		Coal ¹	Petroleum ²	Natural Gas	Nuclear	Hydro	Other ³	Total
			,	-	ion kilowatt-ho	•		
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	January	103,258	24,986	26,349	19,746	25,278	388	200,005
	February	98,151	24,781	24,755	19,277	21,378	373	188,715
	March	95,386	20,415	26,891	20,039	24,332	401	187,464
	April	83,562	16,025	24,181	18,794	25,748	410	168,720
	May	84,884	16,545	26,587	18,385	28,865	468	175,734
	June	93,692	18,020	31,295	18,322	27,656	445	189,430
	July	108,457	23,289	39,063	21,024	24,469	475	216,776
	August	107,580	24,885	37,647	24,333	20,431	517	215,393
	September October	97,557	17,815	33,580	23,572	18,491	469	191,485
	November	91,196 93,501	15,858	28,592	24,510	17,866	533	178,555
	December	104,339	19,989 23,386	24,338 22,961	20,984 22,130	19,217	520 506	178,550
	TOTAL	1,161,562	245,994	346,240	251,116	22,290 276,021	506 5,506	195,613 2,286,439
4004			•	,		•	•	• •
1981	January	111,765	25,963	22,081	23,779	22,338	540	206,467
	February March	97,653	17,444	21,339	21,595	21,099	483	179,613
	April	99,482 88,109	16,957 15 106	25,997	22,004	20,572	541 500	185,553
	May	88,941	15,106 14,508	27,460 30,070	20,646	20,723	500	172,545
	June	99,837	18,972	35,885	19,723 21,166	24,081 26.370	483 473	177,806
	July	112,854	20,072	38,712	23,080	25,133	523	202,702 220,373
	August	108,403	16,001	36,918	26,946	21,615	520	210,403
	September	97,664	15,566	30,850	24,398	17,822	538	186,838
	October	97,046	16,213	28,917	20,556	18,088	531	181,352
	November	94,841	13,847	24,670	22,783	18,963	465	175,570
	December	106,608	15,772	22,877	25,997	23,879	457	195,590
	TOTAL	1,203,203	206,421	345,777	272,674	260,684	6,054	2,294,812
1982	January	113,818	20,677	22,611	25,678	26,904	411	210,098
	February	96,906	15,220	20,920	20,188	26,698	380	180,310
	March	97,625	13,474	23,598	22,756	29,879	330	187,662
	April	88,124	11,192	23,232	21,785	27,928	328	172,588
	May	93,011	9,851	24,318	21,639	28,063	381	177,261
	June	95,308	10,418	27,968	24,026	28,027	458	186,204
	July August	110,458	13,382	33,339	25,467	27,412	485	210,543
	September	110,122 96,869	11,762 10,363	34,418	24,986	23,888	480	205,656
	October	93,779	9,871	27,675 25,809	25,391 23,248	19,896	468 500	180,662
	November	95,547	9,313	25,609 21,466	23,246 23,235	19,751 23,297	509 520	172,967
		00,047	0,010	21,700	20,200	23,231	520	173,377

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

Includes bituminous coal, lignite, and anthracite.

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

Includes geothermal and wood and waste.

Source: • Energy Information Administration Form 759, "Monthly Power Plant Report."

Electricity Sales¹

1973 TOTAL 579,231 388,266 686,085 59,326 1,712,909 1974 TOTAL 578,184 384,826 684,875 58,039 1,705,924 1975 TOTAL 588,140 403,049 687,680 68,222 1,747,091 1976 TOTAL 606,452 425,094 754,069 69,631 1,855,461 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 January 65,841 39,578 67,532 6,634 179,585 February 64,514 39,528 68,508 6,171 178,720 March 60,497 38,762 69,086 6,028 171,473,73 April 51,749 36,453 67,908 5,591 161,702 May 45,699 36,110 67,235 5,807 164,872 July 68,611 45,525 65,531 6,215 185,862 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 November 50,539 37,954 67,613 6,088 162,174 December 60,775 39,846 68,517 7,092 182,207 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 May 43,48 39,311 68,741 7,092 182,207 March 57,660 39,541 68,590 7,035 172,926 April 50,914 37,910 68,138 6,562 165,573 July 68,190 48,348 39,331 68,741 7,092 182,207 March 57,660 39,541 68,590 7,035 172,926 April 50,914 37,910 68,138 6,562 165,573 July 69,990 48,989 71,712 7,124 198,459 August 70,299 49,003 72,010 7,147 198			Residential	Commercial	Industrial	Other ²	Total
1974 TOTAL 578,184 384,826 684,875 59,039 1,705,924 1975 TOTAL 588,140 403,049 687,680 68,222 1,747,091 1976 TOTAL 606,452 425,094 754,069 69,631 1,855,246 1977 TOTAL 645,239 446,514 786,037 70,571 1,948,361 1978 TOTAL 674,466 461,163 809,078 73,215 2,017,922 1979 TOTAL 682,819 473,307 841,903 73,070 2,071,099 1980 January 65,841 39,578 67,532 6,634 179,585 February 64,514 39,578 67,532 6,634 179,585 68,509 61,771 178,720 March 60,497 38,762 69,086 6,028 174,373 April 51,749 36,453 67,908 5,591 161,702 May 45,689 36,110 67,235 5,807 154,851 June 52,267 40,129 66,739 5,737 164,872 July 68,611 45,525 65,531 6,215 185,882 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 Cotober 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 19,139 February 66,559 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 April 50,914 37,910 68,138 6,562 16				Millio	n kilowatt-hour	s	
1975 TOTAL 588,140 403,049 687,680 68,222 1,747,091 1976 TOTAL 606,452 425,094 754,069 69,631 1,855,246 1977 TOTAL 645,239 446,514 786,037 70,571 1,948,361 1978 TOTAL 682,819 473,307 841,903 73,070 2,071,099 1980 January 65,841 39,578 67,532 6,634 779,685 68,508 61,711 178,720 64,514 39,528 68,508 61,711 178,720 64,514 39,528 68,508 61,711 178,720 66,739 31,749 36,453 67,908 55,991 161,702 66,739 47,373 47,3	1973	TOTAL	579,231	388,266	686,085	59,326	1,712,909
1976 TOTAL 608,452 425,094 754,069 69,631 1,855,246 1977 TOTAL 645,239 446,514 786,037 70,571 1,948,361 1978 TOTAL 674,466 461,163 809,078 73,215 2,017,922 1979 TOTAL 682,819 473,307 841,903 73,070 2,071,099 1980 January 65,841 39,528 68,508 6,171 178,720 March 60,497 38,762 69,086 6,028 174,373 April 51,749 36,453 67,908 5,591 161,702 May 45,699 36,110 67,235 5,807 154,851 June 52,267 40,129 66,739 5,737 164,872 July 68,611 45,525 65,531 6,215 185,882 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 100,000 1	1974	TOTAL	578,184	384,826	684,875	58,039	1,705,924
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 January 65,841 39,528 68,508 6,171 178,720 March 60,497 38,762 69,086 6,028 174,373 April 51,749 36,453 67,908 5,591 161,702 May 45,699 36,110 67,235 5,807 154,851 June 52,267 40,129 66,739 5,737 164,872 July 68,611 45,525 65,531 6,215 185,802 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080	1975	TOTAL	588,140	403,049	687,680	68,222	1,747,091
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 January 65,841 39,578 67,532 6,634 179,585 February 64,514 39,528 68,508 6,171 178,720 March 60,497 38,762 69,086 6,028 174,373 April 51,749 36,453 67,908 5,591 161,702 May 45,699 36,110 67,235 5,807 154,851 June 52,267 40,129 66,739 5,737 164,872 July 68,611 45,525 65,531 6,215 185,882 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 50,144 40,479 69,413 6,174 170,089	1976	TOTAL	606,452	425,094	754,069	69,631	1,855,246
1979 TOTAL 682,819 473,307 841,903 73,070 2,071,099 1980 January 65,841 39,578 67,532 6,634 179,585 February 64,514 39,528 68,508 6,171 178,720 March 60,497 38,762 69,086 6,028 174,373 April 51,749 36,453 67,908 5,591 161,702 May 45,699 36,110 67,235 5,807 154,851 June 52,267 40,129 66,739 5,737 164,871 July 68,611 45,525 65,531 6,215 185,882 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 1982 January 76,264 44,947 62,939 7,929 192,079 February 69,128 43,459 62,778 7,441 182,805 April 54,918 40,036 62,723 68,366 68,681 64,512 May 49,092 40,021 62,480 6,966 158,569 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 Cctober 52,638 42,864 60,630 7,984 163,416 Cctober 52,638 42,864 60,630	1977	TOTAL	645,239	446,514	786,037	70,571	1,948,361
1980 January 65,841 39,578 67,532 6,634 179,585 February 64,514 39,528 68,508 6,171 178,720 March 60,497 38,762 69,086 6,028 174,373 April 51,749 36,453 67,908 5,591 161,702 May 45,699 36,110 67,235 5,807 154,851 June 52,267 40,129 66,739 5,737 164,872 July 68,611 45,525 65,531 6,215 185,882 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 60,826 40,782 64,130 6,637 172,375 TOTAL 8720,700 8513,281 8825,748 884,042 82,143,771 1982 January 76,264 44,947 62,939 7,929 192,079 February 69,128 43,459 62,778 7,441 182,625 April 54,918 40,036 62,723 6,836 164,512 May 49,092 40,031 62,723 6,836 164,512 May 49,092 40,031 62,778 7,441 182,805 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 Cotober 52,688 42,864 60,630 7,084 6163,416 Cotober 52,688 42,864 60,630 7,084 6163,416 Cotober 52,688 42,864 60,630 7,084 6163,416 Cotober 52,6	1978	TOTAL	674,466	461,163	809,078	73,215	2,017,922
February 64,514 39,528 68,508 6,171 178,720 March 60,497 38,762 69,086 6,028 174,373 April 51,749 36,453 67,908 5,591 161,702 May 45,699 36,110 67,235 5,807 154,851 June 52,267 40,129 66,739 5,737 164,872 July 68,611 45,525 65,531 6,215 185,882 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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 44,083 44,046 63,684 6,766 188,739 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 42,864 60,830 7,084 163,416	1979	TOTAL	682,819	473,307	841,903	73,070	2,071,099
March 60,497 38,762 69,086 6,028 174,373 April 51,749 36,453 67,908 5,591 161,702 May 45,699 36,110 67,235 5,807 154,851 June 52,267 40,129 66,739 5,737 164,872 July 68,611 45,525 65,531 6,215 188,882 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,669 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660	1980	January	65,841	39,578	67,532	6,634	179,585
April 51,749 36,453 67,908 5,591 161,702 May 45,699 36,110 67,235 5,807 154,851 June 52,267 40,129 66,739 5,737 164,872 July 68,611 45,525 65,531 6,215 185,882 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November 851,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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 6,976 158,599 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		February	64,514	39,528	68,508	6,171	178,720
May 45,699 36,110 67,235 5,807 154,851 June 52,267 40,129 66,739 5,737 164,872 July 68,611 45,525 65,531 6215 185,882 August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914		March	60,497	38,762	69,086		174,373
June 52,267 40,129 66,739 5,737 164,872 July 68,611 45,525 65,531 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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 6,766 168,739 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 42,664 60,830 7,084 163,416		April	51,749	36,453	67,908	5,591	161,702
July		May	45,699	36,110	67,235	5,807	154,851
August 75,020 47,763 67,415 6,266 196,464 September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,229		June	52,267	40,129	66,739	5,737	164,872
September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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 October 52,638 42,864 60,830		July	68,611	45,525	65,531	6,215	185,882
September 67,969 46,028 69,570 6,572 190,139 October 54,014 40,479 69,413 6,174 170,080 November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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 October 52,638 42,864 60,830		August	75,020	47,763	67,415	6,266	196,464
November 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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			67,969	46,028	69,570	6,572	190,139
November December 50,539 37,954 67,613 6,068 162,174 December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,889 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,98		October	54.014	40,479	69,413	6.174	170,080
December 60,775 39,846 68,517 6,469 175,607 TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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 Cotober 52,638 42,864 60,830 7,084 163,416		November			,	6,068	•
TOTAL 717,495 488,156 815,067 73,732 2,094,449 1981 January 74,087 43,229 67,076 7,557 191,949 February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 <th></th> <th>December</th> <th>60,775</th> <th>39,846</th> <th>68,517</th> <th>6,469</th> <th>•</th>		December	60,775	39,846	68,517	6,469	•
February 66,359 41,345 67,411 7,092 182,207 March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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			*	•	•		•
March 57,660 39,541 68,590 7,035 172,826 April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 1982 January 76,264 44,947 62,939 7,929 192,079 February 69,1	1981		•	•	•	•	
April 50,914 37,910 68,138 6,562 163,525 May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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		•					
May 48,348 39,331 68,714 6,780 163,173 June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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 54,9				•	•		
June 56,165 44,244 71,641 6,777 178,827 July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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 49,0		April				6,562	163,525
July 69,990 48,989 71,712 7,124 197,814 August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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 July 65,7		May		39,331	68,714	6,780	163,173
August 70,299 49,003 72,010 7,147 198,459 September 61,098 46,977 71,011 7,164 186,250 October 52,989 42,183 69,154 7,024 171,350 November R51,965 R39,747 R66,161 R7,143 R165,016 December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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		June	56,165	44,244	71,641	6,777	178,827
September October 61,098 52,989 46,977 42,183 71,011 69,154 7,024 7,024 186,250 171,350 November December R51,965 60,826 R39,747 40,782 R66,161 64,130 R7,143 66,637 R165,016 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 1982 January February 76,264 69,128 44,947 43,459 62,939 62,778 7,441 7,441 182,805 182,805 March April 60,498 54,918 40,036 40,036 62,723 62,723 6,836 6,836 164,512 164,512 May 49,092 40,021 40,021 62,480 63,684 6,766 69,76 158,569 198 July 65,704 48,211 42,206 63,684 6,617 7,035 6,808 189,740 September 63,053 48,068 49,720 63,306 60,830 6,808 7,194 7,084 189,740 October 52,638 42,864 60,830 7,084 7,084 163,416		July	69,990	48,989	71,712	7,124	197,814
October November December 52,989 R51,965 R51,965 R51,965 R39,747 R66,161 R7,143 R165,016 R7,143 R165,016 R7,143 R165,016 R7,143 R165,016 R7,143 R825,748 R84,042 R2,143,771 TOTAL Property R720,700 R513,281 R525,748 R84,042 R2,143,771 1982 Property January R69,128 R61,288 R61,289 R61,289 R61,280 R61,2							198,459
November December R51,965 (0.826) R39,747 (4.782) R66,161 (4.130) R7,143 (6.637) R165,016 (6.637) R72,375 (4.782) R825,748 (6.637) R84,042 (6.637) R21,43,771 1982 January 76,264 (6.293) 44,947 (6.293) 7,929 (6.278) 192,079 (6.278) 7,441 (6.293) 182,005 (6.278) 7,441 (6.293) 182,005 (6.278) 182,005 (6.278) 182,005 (6.278) 182,005 (6.278) 182,005 (6.278) 183,005 (6.278) 183,005 (6.278) 183,005 (6.278) 183,005 (6.278) 183,005 (6.278) 183,005 (6.278) 183,005 (6.278) 183,005 (6.278) 183,007		•		46,977	71,011	7,164	186,250
December 60,826 40,782 64,130 6,637 172,375 TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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					69,154	7,024	171,350
TOTAL R720,700 R513,281 R825,748 R84,042 R2,143,771 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			R51,965	R39,747	R66,161	R7,143	R165,016
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		December	60,826	40,782	64,130	6,637	172,375
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	•	TOTAL	R720,700	R513,281	R825,748	R84,042	R2,143,771
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	1982	•	•		62,939	7,929	192,079
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		February	69,128	43,459	62,778	7,441	182,805
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		March	60,498	41,710	64,496	7,255	173,959
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		April	54,918	40,036	62,723	6,836	164,512
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		May	49,092	40,021	62,480	6,976	158,569
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		June	54,083	44,206	63,684	6,766	168,739
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		July	65,704	48,211	62,617	7,035	183,567
September 63,053 48,068 59,980 7,194 178,296 October 52,638 42,864 60,830 7,084 163,416		August	69,906	49,720	63,306		
October 52,638 42,864 60,830 7,084 163,416		September	63,053	48,068	59,980	7,194	•
		October	52,638	42,864		•	- •
		November†	52,136	40,572		•	•

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

[†]Preliminary data.

R=Revised data. For further explanation of factors used in revising data, see the Technical Notes section of the Energy Information Administration, Electric Power Monthly.

Source: •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."

Electric UtilitiesPrimary Energy Consumed to Produce Electricity

			Coal	 		Petroleum				Natural Gas
		Anthracite	Bituminous Coal	Lignite	Total	Steam	Gas Turb./ Int. Comb.	Total Liquids	Petroleum Coke	
			Thousand sh	ort tons		Th	nousand barre	ls	Thousand short tons	Million cubic feet
1973	TOTAL	1,443	376,975	10,794	389,212	513,190	47,058	560,248	507	3,660,172
1974	TOTAL	1,498	378,643	11,670	391,811	483,146	53,128	536,274	625	3,443,428
1975	TOTAL	1,480	388,523	15,960	405,962	467,221	38,907	506,128	70	3,157,669
1976	TOTAL	1,350	425,205	21,817	448,371	514,077	41,843	555,920	68	3,080,868
1977	TOTAL	1,425	451,051	24,650	477,126	574,869	48,837	623,705	98	3,191,200
1978		•	,	•			•	•		
	TOTAL	1,064	448,763	31,407	481,235	588,319	47,520	635,839	398	3,188,363
1979	TOTAL	1,046	488,129	37,876	527,051	492,606	30,691	523,297	268	3,490,523
1980	January	74 72	46,518	3,779	50,371	40,695	2,197	42,892	54	276,743
	February March	83	43,969	3,471	47,512 46,685	40,231 33,406	1,919 1,379	42,150 34,785	21	263,771
	April	71	43,244 37,971	3,357 2,651	40,692	26,867	673	27,540	13 7	283,945 256,606
	May	86	38,116	3,262	41,464	26,991	840	27,831	11	281,886
	June	89	42,073	3,658	45,821	29,551	1,138	30,689	11	336,894
	July	93	49,815	3,746	53,655	37,297	2,791	40,088	11	420,339
	August	80	49,077	4,057	53,214	40,019	2,833	42,852	15	405,343
	September	84	44,487	3,342	47,913	29,367	1,286	30,653	11	357,286
	October	73	41,819	3,200	45,092	26,269	689	26,958	8	301,266
	November	56	42,379	3,263	45,698	32,782	1,320	34,102	7	255,559
	December	89	47,212	3,856	51,157	38,387	1,285	39,672	9	241,957
	TOTAL	951	526,680	41,642	569,274	401,863	18,351	420,214	179	3,681,595
1981	January	81	50,635	3,972	54,688	41,904	2,027	43,931	10	231,606
	February	58	44,583	3,272	47,914	28,948	1,049	29,997	9	224,003
	March	75	45,168	3,155	48,398	28,492	775	29,267	9	273,431
	April	73	40,535	3,069	43,677	25,028	557	25,585	. 7	289,053
	May	91 105	41,405	3,503	44,999	23,958	967	24,925	14	316,310
	June	105 102	46,503 51,705	3,471	50,080	30,673	1,731	32,404	13	380,775
	July August	133	51,705 50,010	4,337 4,339	56,144 54,483	32,577 26,598	1,666 584	34,243 27,182	11 13	410,666
	September	98	44,557	3,828	48,483	25,762	520	26,282	13	389,564 324,828
	October	115	44,161	3,524	47,800	26,646	556	27,201	15	301,670
	November	141	43,032	3,841	47,014	22,749	432	23,181	12	258,811
	December	148	48,487	4,481	53,116	26,345	567	26,912	12	239,436
	TOTAL	1,221	550,784	44,792	596,797	339,680	11,431	351,111	139	3,640,154
1982	January	89	52,472	4,723	57,284	33,774	1,567	35,341	10	237,533
	February	83	44,478	4,317	48,878	25,249	535	25,784	9	220,031
	March	73	43,751	4,060	47,884	22,371	558	22,929	4	246,550
	April	88	39,888	3,515	43,490	18,553	493	19,046	11	246,339
	May	98	41,845	3,678	45,622	16,592	316	16,909	12	258,078
	June	94	43,340	3,990	47,424	17,241	351	17,592	13	295,546
	July	108	50,835	4,371	55,313	22,192	732	22,924	11	352,831
	August September	95 67	50,200 44,416	4,460 3,916	54,755 48,399	19,511 17,146	420 318	19,931 17,464	13 9	361,313 293,232
	October	81	42,598	3,650	46,330	16,547	313	16,860	17	293,232 274,093
	November	100	43,756	3,943	47,799	15,591	324	15,916	18	226,297
			1	_,•	,	. 5,55	02 ,	. 5,5 . 6		,,

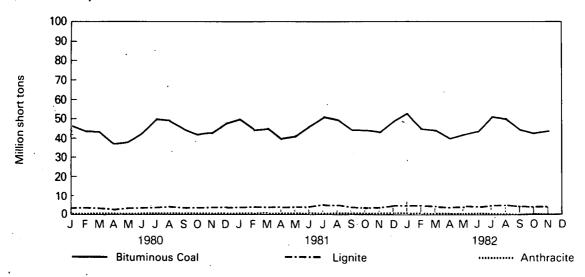
Geographic coverage: the 50 United States and the District of Columbia.

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

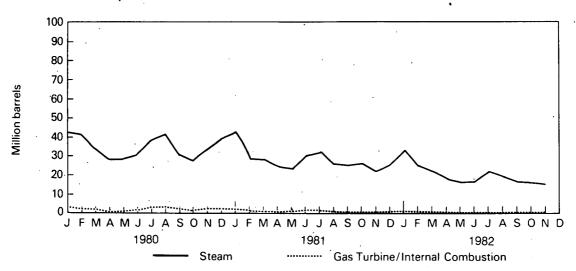
Source: • Energy Information Administration Form 759, "Monthly Power Plant Report."

Primary Energy Consumed to Produce Electricity

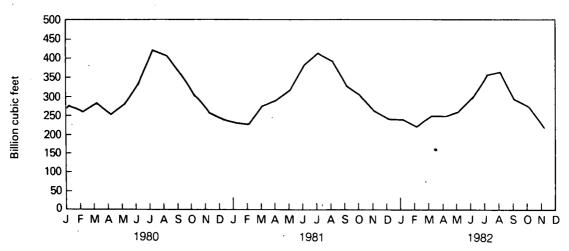
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



End-of-Month Coal and Petroleum Stocks

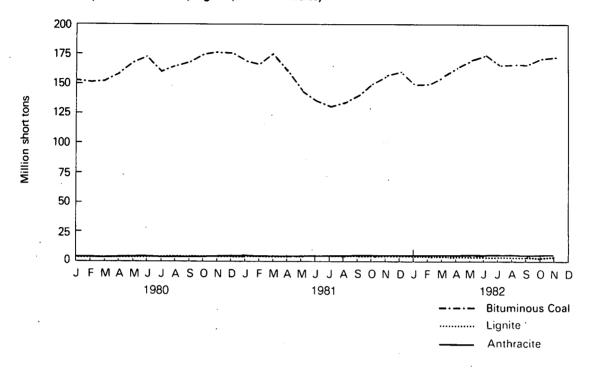
		Coal				Petroleum			
		Anthracite	Bituminous Coal	Lignite	Total	Steam	Gas Turb./ Int. Comb.	Total Liquids	Petroleum Coke
			Thousand sh	ort tons		TI	nousand barrel	s	Thousand short tons
1973		‡1,0 6 6	‡84,941	‡ 96 1	‡86,967	‡79,121	‡10,095	‡89,21 6	‡312
1974		‡930	‡81,712	‡867	‡83,509	‡97,71 8	‡15,199	‡112,917	135
1975		1982	‡107,927	‡1,815	‡110,724	±108,825	116,432	‡125,25 7	‡31
1976		‡1,000	1114,130	12,306	±117,436	±106,993	‡14,703	‡121,696	‡32
1977		12,321	‡128,210	‡2,688	•		-	•	•
1978		•			‡133,219 ±100,005	‡124,750	‡19,281	‡144,031	‡44
		‡2,17 8	‡123,020	‡3,027	‡128,22 5	‡102,40 2	‡16,38 6	‡118,788	‡1 98
1979		‡3,274	‡152,981	‡3,459	‡159,714	‡111,121	‡20,301	‡131,422	‡1 83
1980	January February	3,371 3,451	151,891 150,151	3,455 3,522	158,717 157,124	114,313 111,353	19,597 19,055	133,909 130,409	175 168
	March	3,488	151,022	3,116	157,625	116,246	18,934	135,180	154
	April May	3,533	158,441	3,843	165,817	118,824	19,201	138,025	103
	May June	3,725 3,838	166,325 171,042	3,980 4,079	174,029	123,043	19,485	142,529	69
	July	3,955	161,159	3,691	178,959 168,806	124,177 121,596	19,273	143,450	65 65
	August	4,098	163,756	4,036	171,891	118,514	18,680 18,150	140,276 136,664	65 63
	September	4,291	166,515	4,262	175,067	122,240	18,064	140,304	61
	October	4,481	173,411	4,153	182,045	124,046	18,398	142,445	60
	November	4,661	175,489	3,983	184,133	119,863	18,051	137,915	53
	December	4,741	174,154	4,115	183,010	117,227	18,147	135,374	52
1981	January	4,824	167,884	4,267	176,975	110,533	18,199	128,732	51
	February	4,859	166,552	4,304	175,715	112,879	17,315	.130,195	52
	March	4,951	174,554	4,478	183,983	111,490	17,421	128,911	52
	April	5,035	159,645	4,541	169,221	109,455	17,197	126,652	52
	May	5,008	143,500	4,907	153,415	112,172	17,073	129,245	52
,	June	5,081	134,321	5,119	144,520	109,988	17,957	127,945	49
	July	5,269	129,684	5,171	140,124	110,476	16,856	127,332	48
	August September	5,337 5,428	132,072	4,909	142,318	114,016	16,801	130,817	47
	October	5,426 5,512	138,808 148,952	5,290 5,213	149,526	112,992	16,515	129,506	46
	November	5,548	156,360	5,213	159,676 167,002	110,900	16,164	127,063	44
	December	5,537	158,258	5,098	168,893	110,939 112,380	16,077 15,756	127,016 128,136	43 42
1982	January	5,517	148,227	4,628	158,371	104,921	15,014	119,935	39
	February	5,401	148,118	4,617	158,136	103,055	14,775	117,830	39 40
•	March	5,488	154,724	4,305	164,518	107,718	14,301	122,018	43
	April	5,542	161,720	4,128	171,390	105,604	14,274	119,877	42
	May	5,569	167,805	4,088	177,461	105,278	•	119,685	41
	June	5,603	172,819	4,092	182,513	107,947	13,913	121,861	43
	July	5,658	164,687	4,157	174,502	105,374	14,583	119,956	43
	August	5,791	165,182	4,221	175,194	106,171	13,787	119,958	42
	September	5,896	164,953	4,264	175,112	107,492	13,898	121,390	47
	October November	5,992 6,060	170,181	3,698	179,871	105,980	13,680	119,660	36
	HOVEHIDE	6,060	171,335	4,476	181,871	105,869	13,480	119,349	42

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
‡Total as of December 31.

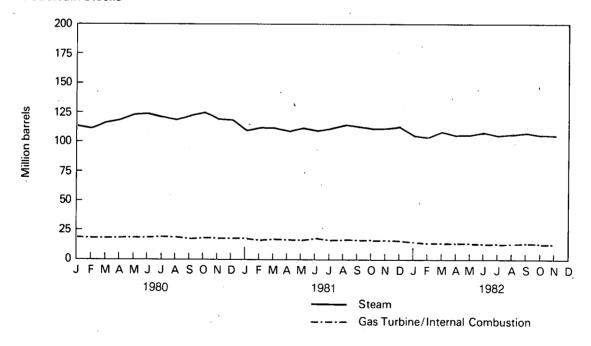
Source: • Energy Information Administration Form 759, "Monthly Power Plant Report."

End-of-Month Coal and Petroleum Stocks

Coal Stocks (Bituminous Coal, Lignite, and Anthracite)



Petroleum Stocks



Nuclear

During November 1982, U.S. nuclear powerplants generated a total of 23.2 billion net kilowatt-hours (kWh) of electricity, equivalent to a daily output of 774.5 thousand net kWh. This was 2.0 percent above the comparable output for November 1981. Nuclear power supplied 13.4 percent of the electricity generated by domestic utilities in November 1982, the same percentage as in the previous month and the third highest proportion of electricity demand met by nuclear power to date. Only in October 1980 and September 1982 was the nuclear portion higher— 13.7 percent and 14.1 percent, respectively.

A Low Power License was issued on November 15, 1982, to Southern California Edison's San Onofre-3 unit, a 1,087-net megawatt (MWe) pressurized water reactor (PWR).

On November 16, 1982, Susquehanna-1, a 1,060-net MWe boiling water reactor, generated its first electricity. Supplied by General Electric and operated by Pennsylvania Power and Light, Susquehanna-1 is expected to begin commercial operation in the spring. Also on November 16, the South Carolina Electric and Gas unit Summer-1, a 900-net MWe PWR, began electricity generation. However, the Nuclear Regulatory Commission will not permit Summer-1 to operate above 50 percent capacity until modifications have been made to its Westinghouse D-3 steam generators.

On November 15, the Virginia Electric and Power Company canceled North Anna-3, a 907-net MWe PWR, because of escalating costs. This unit had been announced in 1971 and was 8 percent complete. On November 3, Duke Power Company canceled its Cherokee-2 and Cherokee-3 PWRs, each rated at 1,280 net MWe, because of lower-than-projected growth in power demand.

With San Onofre-3 added to the list of operable units, there were, as of November 30, 1982, 79 licensed U.S. power reactors with a combined capacity of 61,523 net MWe. Of these 79 units, 2 were in startup or lowpower testing (Grand Gulf-1 and San Onofre-3), 4 were in power ascension (LaSalle-1, San Onofre-2, Summer-1, and Susquehanna-1), and 22 generated no electricity or operated substantially below capacity in November (Arkansas-1, Arkansas-2, Browns Ferry-2, Brunswick-2, Calvert Cliffs-2. Farley-2. Fort St. Vrain, Hatch-1, Indian Point-2, Indian Point-3, Maine Yankee, Monticello, Nine Mile Point-1, Prairie Island-1, North Anna-1, Quad Cities-1, Salem-1, San Onofre-1, Sequoyah-1, Three Mile Island-1, Turkey Point-4, and Yankee-Rowe-1).

As of November 30, the number of nuclear powerplants in all stages of planning, construction, or operation stood at 144 units, with an aggregate capacity of 135.2 million net kilowatts.



Nuclear

Nuclear Powerplant Operations

		Reactors Licensed For Operation ¹	Nuclear-Based Electricity Generation ²	Nuclear Portion of Domestic Electricity Generation	Maximum Dependable Capacity ³	Capacity Factor ⁴
			Million net kilowatt-hours	Percent	Million net kilowatts	Percent
1973	AVERAGE	40	83,479	4.5	13.850	63.2
1974	AVERAGE	53	113,976	6.1	29.921	43.5
1975	AVERAGE	56	172,505	9.0	35.671	55.2
1976	AVERAGE	62	191,104	9.4	40.642	53.5
1977	AVERAGE	67	250,883	11.8	45.554	62.9
1978	AVERAGE	71	276,403	12.5	49.385	63.9
1979	AVERAGE	71	255,155	11.4	50.604	57.6
1980	January	68	19,746	9.9	48.669	54.5
	February	69	19,277	10.2	50.617	56.0
	March	69	20,039	10.7	50.606	53.2
	April	71	18,794	11.1	52.572	49.7
	May	71	18,385	10.5	52.572 52.574	4 3 .7 47.0
	June	71	18,322	9.7		
	July	71	21,024	9.7	52.425	48.5
	August	71	24,333		52.525	53.8
	September	71	•	11.3	52.311	62.5
	October	71 72	23,572	12.3	52.188	62.7
	November		24,510	13.7	53.180	61.9
		72 70	20,984	11.8	53.031	55.0
•	December	72	22,130	11.3	52.597	56.6
	AVERAGE	71	251,116	11.0	51.941	55.1
1981	January	73	23,779	11.5	54.374	58.8
	February	. 73	21,595	12.0	54.372	59.1
	March	73	22,004	11.9	54.429	54.3
	April	73	20,646	12.0	54.095	53.1
	May	73	19,723	11.1	54.074	49.0
	June	74	21,166	10.4	55.214	53.2
	July	74	23,080	10.5	54.998	56.4
	August	74	26,946	12.8	54.820	66.1
	September	75	24,398	13.1	56.974	60.5
	October	75	20,556	11.3	56.412	48.9
	November	74	22,783	13.0	55.328	57.2
	December	74	25,997	13.3	55.524	62.9
	AVERAGE	74	272,674	11.9	55.051	56.6
1982	January	. 74	25,678	12.2	55.471	62.2
	February	75	20,188	11.2	56.608	53.1
	March	75	22,756	12.1	56.609	54.0
	April	76	21,785	12.6	57.415	52.8
	May	76	21,639	12.2	57.428	50.6
	June	77	24,026	12.9	58.560	57.0
	July	· 78	25,467	12.1	59.601	57.4
	August	79	24,986	12.1	60.521	55.5
	September	79	25.391	14.1	60.501	58.3
	October	78	23,248	13.4	59.921	52.1
	November	79	23,235	13.4	61.523	52.1 52.5
			20,200	10.7	01.323	JZ.3

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

¹See Note 3 on the last page of this section.

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

³See Note 1 on the last page of this section.

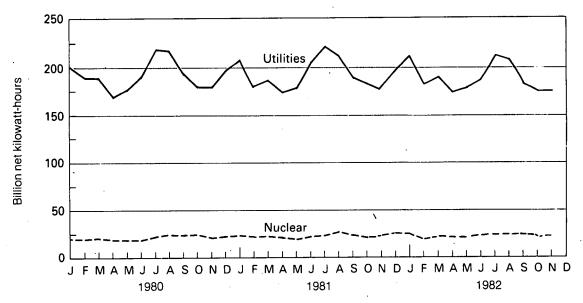
⁴Average percentage of the net maximum dependable capacity utilized yearly or monthly.

Sources: • See the last page of this section.

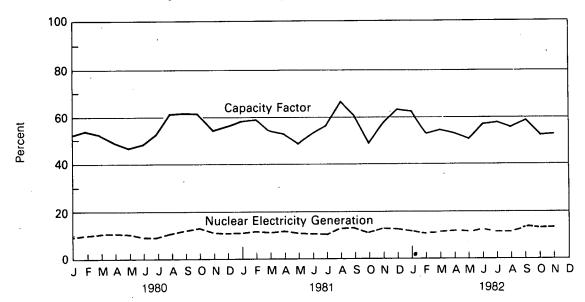
Nuclear

Nuclear Powerplant Operations

Electricity Generated by Utilities and by Nuclear Powerplants



Nuclear Portion of Electricity Generation and Capacity Factor*



^{*}Percentage of Maximum Dependable Capacity utilized.

Nuclear

Status of Nuclear Reactor Units¹

		Reactors Licensed For Operation ²	Construction Permits Granted	Construction Permits Pending	Reactor Units on Order	Reactor Units Announced	Total Reactor Units	Total Design Capacity ^s (Million Net Kilowatts)
1973		40	51	58	48	20	217	212
1974		53	58	80	28	. 16	235	234
1975		56	69	73	19	19	236	236
1976		62	72	66	16	19	235	236
1977		67	80	52	13	9		
1978			• • •				221	220
		71	90	32	9	4	206	204
1979		71	91	21	3	0	186	180
1980	January	68	90	17	3	0	178	173
	February	69	89	16	3	0	177	172
	March	69	87	14	3	0	173	168
	April	71	85	14	3	Ŏ	173	168
	May	71	85	14	3	Ŏ	173	168
	June	71	85	14	3	Ö	173	
	July	7 1	85	14	3	Ö		168
	•	71	85	14	ა ი		173	168
	August				3	0	173	168
	September	71 	85	14	3	0	173	168
	October	72	84	14	3	0	173	168
	November	72	82	14	3	0	171	166
	December	72	82	12	3	. 0	169	163
1981	January	73 ·	81	12	3	0	169	163
	February	73	81	12	3	0	169	163
	March	73	81	12	3	0	169	163
	April	73	8 1	12	3	Ö	169	163
	May	73	. 81	12	3	Ŏ	169	163
	June	74	80	12	3	. 0	169	163
	July	74	80	. 12	3	ŏ	169	163
	August	74	79	12	3	Ö	168	162
	September	75	78	11	3	0		
	October	75	70 77	11			167	161
	November	73 74	77 78		3	0	166	160
	December			11	3	0	166	160
		74	75	11	3	0	163	157
1982	January	74 75	73 70	- 11	3	0	161	154
	February	75 ·	72	6	2	0	155	147
	March	75	72	6	2	0	155	147
	April	76	71	6	2	0	155	147
	May	76	71	6	2	0	155	147
	June	77	70	6	2	0	155	147
	July	78	67	6	2	Ŏ ·	153	145
	August	79	64	5	2	Ö	150	141
	September	79	64	3	2	0	148	
	September October	79 78	64 64	3 3	2 2	0 0	148 147	138 138

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

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

'See Note 3 on the last page of this section.

'Entries in this column are based on the net design electrical ratings which are defined in Note 1 on the last page of this section.

Sources:

See the last page of this section.

Notes and Sources for the Nuclear Section

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

(a) Design Capacity or Design Electrical Rating (DER), Net-The nominal net electrical output of the unit, as specified by

(a) Design Capacity or Design Electrical Rating (DER), Net—The nominal net electrical output of the unit, as specified by the utility for the purpose of plant design.
(b) Maximum Dependable Capacity (MDC), Gross—The gross electrical output as measured at the output terminals of the turbine generator(s) during the most restrictive seasonal conditions (usually summer).
(c) Maximum Dependable Capacity (MDC), Net—The gross MDC less the nominal station service load. The nominal station service load for a nuclear plant is about 5 percent of its gross generation.
(d) Thermal Capacity—The rate of heat production by the reactor core. The Nuclear Regulatory Commission (NRC) authorizes a maximum thermal power rating for U.S. reactors.
2. Nuclear Powerplant Operations: For most reactors the net MDC is used. Where the net MDC is not available, the net DER is used. Starting with January 1980 entries, the restricted capacity of "derated" units (i.e., units for which the NRC or the operating utility has imposed a "power limit") is used in place of either the net MDC or net DER to provide a more realistic setimate of true available capacity. See also Note 3. estimate of true available capacity. See also Note 3.

3. Status of Nuclear Reactor Units: Although net MDC is a more realistic measure of a reactor's capacity, net DER is used in 3. Status of Nuclear Reactor Units: Although net MDC is a more realistic measure of a reactor's capacity, net DER is used in this table because MDC ratings are available only for units that have had operating experience. The column titled "Reactors Licensed for Operation" includes units that have received Full Power and/or Low Power Licenses from the NRC. This category also includes Hanford (capacity=850 MWe), a Department of Energy operated, dual-purpose reactor which, while it is not licensed by the NRC, does generate electricity on a commercial basis. Not included in either table of Part 8 is the Experimental Breeder Reactor-2, which generates electricity but does not distribute it commercially. Beginning with January 1980 data, three units (each of which had been inoperative for at least nine months prior to that time) are deleted from this table due to their uncertain futures: Humboldt Bay (capacity=65 MWe), which requires major seismic modifications; Dresden-1 (capacity=200 MWe), also in need of major modifications; and Three Mile Island-2 (capacity=906 MWe), whose core was severely damaged by a loss-of-coolant accident in March 1979. Shippingport (capacity=60 MWe), which had been a second Department of Energy operated, dual-purpose reactor, was officially retired from service on October 1, 1982, and was deleted from subsequent entries in the tables. subsequent entries in the tables.

Sources

Nuclear Powerplant Operations: • Capacity data for units in commercial operation or start-up testing—Nuclear Regulatory Commission Report NUREG—0020, "Licensed Operating Reactors."
• Generation Data—Energy Information Administration Form 759, "Monthly Power Plant Report."
Status of Nuclear Reactor Units: • Compiled from various sources, primarily the Department of Energy, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones," and from the Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels.

Crude Oil

The average price of domestic crude oil purchased at the wellhead was \$28.70 per barrel in November 1982. This was 0.1 percent below the previous month's level and 7.4 percent below the level in November 1981.

During November 1982, the composite refiner acquisition cost of crude oil was \$32.11 per barrel, \$0.13 per barrel (0.4 percent) above the previous month's price of \$31.98. The price of imported crude oil decreased \$0.02 per barrel from the October 1982 level to \$33.26 per barrel in November. This price was 8.1 percent below the November 1981 level. The price of domestic crude oil in November 1982 was \$31.53, an increase of \$0.15 per barrel from the October 1982 average.

Residual Fuel Oil

The average price, excluding taxes, of No. 6 residual fuel oil sold to utilities, industry, and other ultimate consumers in November 1982 was \$30.05 per barrel, \$0.77 per barrel above the previous month's price but 0.4 percent below the November 1981 average. The average price, excluding taxes, of No. 6 residual fuel oil sold to resellers, bulk plants, jobbers, and other wholesale accounts in November 1982 was \$28.43 per barrel, \$0.91 (3.3 percent) above the October 1982 average and 1.6 percent above the November 1981 average.

Heating Oil

The national average price of heating oil sold to residential customers in November 1982 was 121.9 cents per gallon. This was 1.9 percent above the selling price in October 1982 and 0.9 percent above the November 1981 price. The average distributor mar-

gin on residential heating oil in November was 18.9 cents per gallon, 7.4 percent above the margin during November 1981. The refiners' national average selling price to resellers and retailers was 99.6 cents per gallon in November 1982, 0.4 percent below the November 1981 average.

Aviation Fuel

The average price, excluding taxes, of kerosene-type jet fuel sold to commercial airlines, Department of Defense, and other ultimate consumers in November 1982 was 96.4 cents per gallon, an increase of 0.6 percent from the previous month's average but a 6.0-percent decrease from the November 1981 average.

Motor Gasoline

The national average retail price of all grades and all types of motor gasoline was 124.4 cents per gallon in December 1982. Leaded regular gasoline at all types of stations sold for an average of 118.1 cents per gallon in December, 2.6 cents (2.2 percent) lower than the price in November. The price of unleaded regular gasoline at all types of stations was 126.0 cents per gallon in December, 2.3 cents (1.8 percent) lower than the price in November.

Liquefied Petroleum Gases

The average wholesale price of propane during November 1982, excluding taxes, was 53.2 cents per gallon, 4.3 percent above the previous month's level and 12.0 percent above the November 1981 level.

In November 1982, the average wholesale price of butane, excluding taxes, was 76.2 cents per gallon, 0.7 percent above the previous month's price and 23.7 percent above the November 1981 average.

Part 9

Price

Price

Petroleum Price Summary

		Actual Domestic Average	Refiner A	cquisition Cost o	of Crude Oil ²	No. 6 Residual Oil Price Average ^s		
		Wellhead Price	Domestic	Imported	Composite	Ave Wholesale		
				Dollars per b	arrel			
1976	AVERAGE	8.19	8.84	13.48	10.89	10.72	11.49	
1977	AVERAGE	8.57	9.55	14.53	11.96	11.96	13.23	
1978	AVERAGE	9.00	10.61	14.57	12.46	11.51	12.75	
1979	AVERAGE	12.64	14.27	21.67	17.72	17.66	18.67	
1980	January	17.86	19.78	30.75	24.81	24.41	26.21	
	February	18.81	21.22	32.40	26.11	23.34	26.48	
	March	19.34	22.07	33.42	26.88	21.11	25.33	
	April	20.29	22.89	33.54	27.09	19.09	22.87	
	May	21.01	23.63	34.33	27.85	20.22	23.75	
	June	21.53	24.48	34.48	28.80	20.44	24.09	
	July	22.26	25.05	34.51	28.73	21.28	23.86	
	August	22.63	24.98	34.44	28.70	22.25	25.00	
	September	22.59	25.37	34.46	28.96	22.47	25.31	
	October	23.23	26.21	34.63	29.56	24.06	26.68	
	November	23.92	26.51	35.09	29.79	28.12	30.10	
	December	. 25.80	28.55	35.63	31.39	29.76	32.33	
	AVERAGE	21.59	24.23	33.89	28.07	23.14	26.09	
1981	January	28.85	32.71	38.85	34.86	31.14	33.65	
	February	34.14	36.27	39.00	37.28	31.81	36.04	
	March	34.70	36.97	38.31	37.48	31.78	36.11	
	April	34.05	35.58	38.41	36.58	30.56	34.70	
	May	32.71	35.21	37.84	36.11	30.41	34.11	
	June	31.71	34.20	37.03	35.03	25.95	31.03	
	July	31.13	33.76	36.58	34.70	26.52	30.57	
	August	31.13	33.79	35.82	34.46	27.01	30.52	
	September	31.13	33.47	35.44	34.11	26.20	30.33	
	October	31.00	33.48	35.43	34.07	26.78	30.32	
	November	30.98	33.49	36.21	34.33	27.99	30.16	
	December	30.72	33.51	35.95	34.33	27.26	30.90	
	AVERAGE	31.77	34.33	37.05	35.24	28.86	32.50	
1982	January	30.87	33.39	35.54	33.95	27.07	29.83	
	February	29.76	32.71	35.48	33.40	26.29	30.02	
	March	28.31	31.08	34.07	31.81	25.73	29.50	
	April	27.65	30.27	32.82	30.83	25.46	28.21	
	May	27.67	30.37	32.78	31.02	26.52	28.93	
	June	28.11	30.79	33.79	31.74	26.62	29.59	
	July	28.33	30.92	33.44	31.74	25.97	29.33	
	August	28.18	30.85	32.95	31.45	26.34	28.44	
	September	27.99	30.76	33.03	31.40	26.49	28.43	
	October	28.74	R31.38	R33.28	R31.98	R27.52	29.28	
	November†	28.70	31.53	33.26	32.11	28.43	30.05	
	December	NA	NA .	NA	NA	20.43 NA	NA	
	AVERAGE	NA	NA	NA	NA	NA	NA	

.82

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

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

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

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

See additional footnotes on the following page.

Price Petroleum Price Summary (continued)

		No. 2 Die: Avera	-	No. 2 Heati Ave		Gasoline Price Average All Types ^e	Propane Price Average ⁷	Butane Price Average ⁷
		Wholesale ⁴	Retail ⁴	Wholesale	Retail	Retail	Wholesale ⁴	Wholesale ⁴
٠					Cents per gallo	on		
1976	AVERAGE	31.9	34.7	32.6	40.6	NA	20.6	21.9
1977	AVERAGE	36.1	39.3	36.9	46.0	NA	25.0	25.4
1978	AVERAGE	37.1	40.2	38.7	49.4	65.2	24.0	23.0
1979	AVERAGE	58.2	62.4	53.0	65.6	88.2	29.5	45.8
1980	January	76.0	82.2	75.2	90.8	111.0	41.8	73.3
1300	February	78.3	85.0	79.0	95.3	118.6	42.7	70.1
	March	79.8	87.8	80.4	97.1	123.0	41.0	66.8
	April	80.4	88.0	81.0	97.4	124.2	41.2	63.1
	May	80.5	87.8	81.4	97.2	124.4	41.7	63.7
	June	81.7	88.6	82.5	97.9	124.6	41.2	58.2
	July	81.9	87.6	83.0	97.9	124.7	40.8	53.8
	August	81.6	86.9	82.9	97.9	124.3	40.6	53.1
	September	80.3	86.6	83.0	98.1	123.1	41.4	51.2
	October	81.5	85.9	83.7	98.7	122.3	43.2	54.3
	November	83.6	88.9	86.1	101.1	122.2	45.1	65.5
	December	87.5	92.4	91.3	106.5	123.1	46.5	72.7
	AVERAGE	81.2	87.3	82.2	97.8	122.1	42.4	62.9
			400.0	00.0	114.4	126.9	46.5	66.1
1981		92.5	100.9	98.6		135.3	48.2	63.0
	February	99.5	106.1	106.0	123.4	138.8	48.3	62.1
	March	101.7	108.8	106.3	125.5 123.9	138.1	49.3 49.3	60.1
•	April	101.3	107.7	105.2	. —	137.0	48.6	56.8
	May	100.8	106.8	104.0	122.7	136.2	46.0	52.7
	June	99.5	106.6	103.0	120.9	135.3	46.0	56.5
	July	98.8	103.8	102.7	121.0	134.8	40.0 47.2	60.6
	August	97.8	105.9	102.2	119.4	135.8	47.2 47.7	64.6
	September	97.6	104.8	101.6	119.7		47.7 47.3	64.7
	October	97.4	105.3	101.1	118.8	135.3	47.5 47.5	61.6
	November	98.3	105.2	102.3	120.8	135.1	47.5 45.5	55.4
	December	98.3	105.1	102.6	122.0	134.8		
	AVERAGE	98.5	106.2	102.6	120.5	135.3	47.2	60.4
1982	January	98.0	105.3	101.5	122.0	134.1	43.1	51.8
	February	94.8	103.2	98.3	120.7	131.8	38.3	48.9
	March	90.2	98.0	91.3	115.3	126.8	35.7	49.6
	April	86.6	96.1	90.0	113.2	121.0	34.9	56.1
	May	89.1	97.6	95.1	114.3	122.4	35.4	65.6
	June	93.5	102.2	98.5	116.2	129.6	36.9	67.9
	July	93.4	101.1	98.6	115.8	131.8	39.7	69.7
	August	92.3	99.3	96.7	115.9	131.0	43.8	72.2
	September	92.4	99.8	97.7	115.2	129.5	49.5	77.4
	October	95.7	R102.1	R102.0	R119.6	128.0	R51.0	R75.7
	November	†97.4	†104.2	†101.9	†121.9	126.8	†53.2	†76.2
	December	NA	NA NA	NA	NA	124.4	NA	NA
	AVERAGE	NA	NA	NA	NA	128.1	NA	NA

Footnotes continued.

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

*Beginning with September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. In the average for all types category, gasohol is now included and unleaded premium is weighted more heavily. See Note 5 on the last two pages of this section for additional information on motor gasoline prices.

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

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

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

Price FOB Cost of Crude Oil Imports from Selected Countries¹

		Algeria	indonesia	Iran	Libya	Mexico	Nigeria	Saudi Arabia	United Arab Emirates	United Kingdom	Venezuela
		•				Dollars	s per barrel				
1976	AVERAGE	13.05	12.76	11.61	12.55	NA	13.08	11.69	11.94	NA	11.32
1977	AVERAGE	14.36	13.57	12.67	13.90	13.42	14.44	12.37	12.83	NA	12.68
1978	AVERAGE	14.10	13.64	12.65	13.75	13.24	14.04	12.70	13.24	13.82	12.45
1979	AVERAGE	20.65	19.35	23.71	22.43	20.29	21.80	17.63	19.58	21.20	17.37
1980	January	33.67	29.67	29.28	35.72	29.43	31.57	26.25			
	February	34.03	31.11	- NA	35.72	29.43 31.77	33.39		29.85	30.77	25.34
	March	36.74	31.54	(²)	35.88	30.56	35.59	26.62 26.85	30.95	32.66	24.82
	April	36.93	32.22	(²)	35.30	30.24	36:11		29.34	34.34	24.03
	May	37.10	32.40	(²)	36.13	30.24	36.50	27.78	30.38	34.15	23.85
	June	37.10 37.61	32.90	(²)	36.83	30.76	36.99	28.50	32.67	34.10	24.82
	July	38.40	33.19	(²)	37.26	31.84	36.99 37.17	28.95 28.47	33.34	36.28	25.56
	August	37.53	33.01	(²)	37.20	31.84	36.69		NA	36.26	24.34
	September	37.21	33.13	() (²)	36.94	31.21	36.38	29.74	NA	34.83	25.30
	October	37.60	32.31	(²)	37.15	31.27		30.34	NA	35.18	24.21
	November	37.05	32.94	(²)	36.90	31.59	36.82 36.87	30.19	NA	35.66	22.71
	December	37.37	33.21	(²)	37.58	32.33	36.79	31.43 32.01	NA	35.47	26.83
	AVERAGE								NA	35.00	26.66
	AVERAGE	36.57	32.37	(²)	36.41	31.11	35.82	28.53	NA	34.58	24.78
1981	January	39.37	36.54	(²)	40.52	35.88	40.11	32.39	NA	38.34	32.87
	February	40.13	36.13	(²)	40.73	36.57	40.03	32.60	NA	39.41	. 30.36
	March	40.30	36.40	(²)	40.25	35.60	39.85	32.73	NA	39.50	31.24
	April	39.70	36.38	(2)	40.04	33.81	39.92	32.41	NA	38.85	29.93
	May	39.57	36.09	(²)	38.91	34.45	39.11	32.13	NA	37.16	28.39
	June	39.20	36.95	(²)	39.85	30.30	38.44	32.42	NA	35.84	30.50
	July	38.06	35.47	(²)	38.70	32.72	39.25	32.07	NA	34.89	29.25
	August	39.34	35.61	(²)	39.45	31.23	39.55	31.95	NA	34.38	27.08
	September	39.60	35.82	(²)	36.74	30.37	36.04	32.09	NA	34.44	28.14
	October	36.90	35.08	(²)	36.36	30.83	35.45	33.56	NA	34.87	27.27
	November	36.55	35.53	(²)	37.15	31.80	36.41	33.49	NA	35.97	28.39
	December	37.35	36.08	(²)	36.78	31.29	36.49	33.70	NA	36.46	28.02
	AVERAGE	39.09	35.93	(2)	39.44	33.13	38.53	32.48	NA	36.08	28.86
1982	January	36.96	35.53	(²)	35.69	29.67	36.23	33.40	NA	36.20	29.07
	February	35.56	35.59	(2)	34.64	30.92	35.92	33.50	ŃΑ	34.00	28.94
	March	31.50	35.74	(²)	34.21	27.86	34.94	33.77	NA	30.78	22.89
	April	30.54	35.69	(2)	(²)	26.96	33.80	33.49	NA	32.49	21.89
	May	33.32	34.82	31.11	(²)	28.53	35.22	32.97	NA	32.43	22.31
	June	34.72	35.95	NA	(²)	28.18	35.18	33.80	NA	33.67	22.25
	July	34.35	35.22	31.44	(²)	28.32	35.15	33.26	NA	33.66	23.50
	August	33.03	35.63	31.17	(²)	27.67	35.13	32.63	NA	33.17	20.71
	September	_ 34.20	35.24	NA	(²)	27.95	34.70	32.98	NA	33.30	23.58
	October	R34.26	35.25	NA	(2)	R27.82	R35.05	R33.54	NA	R33.93	R22.93
	November†	, 34.14	34.99	29.80	(²)	27.92	35.01	33.61	NA	34.14	23.41
							,				

¹The Free on Board (FOB) cost excludes all costs related to insurance and transportation. See Note 3 on the last two pages of this section.
²No crude oil was imported.

Note: Prices shown through December 1980 are for the month of reporting; prices since then are for the month of loading.
†Preliminary data. R = Revised data. NA = Not available.

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

Price Landed Cost of Crude Oil Imports from Selected Countries¹

		Algeria	Canada	Indonesia	Iran	Libya	Mexico	Nigerla	Saudi Arabla	United Arab Emirates	United Kingdom	Venezuela
							Dollars pe	r barrel				
1975	AVERAGE	12.72	12.72	13.79	12.21	12.35	NA	12.62	12.30	12.87	NA	11.65
1976	AVERAGE	13.81	13.57	13.82	12.82	13.58	NA	13.80	13.04	13.30	NA	11.80
1977	AVERAGE	15.20	14.21	14.63	13.80	14.87	13.75	15.25	13.61	14.04	NA	13.13 .
1978	AVERAGE	14.91	14.50	14.64	13.88	14.72	13.54	14.86	13.92	14.39	NA	12.83
1979	AVERAGE	21.90	20.43	20.69	25.02	23.68	20.86	22.96	19.15	21.90	22.16	18.18
1980	January	35.32	27.73	31.03	30.37	37.10	30.18	33.03	27.85	32.35	32.14	26.25
	February	35.28	28.60	32.95	NA	36.98	32.38	35.25	28.15	32.71	34.07	25.91
	March	38.54	30.75	33.04	(²)	37.18	31.17	36.93	28.26	30.96	35.73	24.97
	April	38.52	30.31	33.81	(2)	36.57	30.77	37.41	29.14	32.29	35.34	25.10
	May	38.54	31.16	33.73	(2)	37.36	31.22	37.53	30.30	34.06	35.82	25.93
	June	38.71	31.26	34.51	(²)	38.09	31.43	38.15	30.16	34.96	37.41	26.42
	July	39.60	31.31	34.81	. (²)	38.39	32.60	38.23	30.04	NA	37.25	25.47
	August	38.60	31.44	34.81	(²)	38.38	32.62	37.77	31.24	NA	36.20	26.37
	September	38.28	30.97	34.64	(²)	38.30	31.93	37.60	31.86	NA	36.35	25.47
	October	38.77	29.22	33.65	(²)	38.53	31.96	37.75	31.73	NA	36.82	23.92
	November	38.41	28.81	34.55	(2)	38.22	32.42	37.97	32.86	NA	36.62	27.75
	December	38.63	32.72	34.64	(²)	39.04	33.76	38.11	33.40	NA	36.31	27.66
	AVERAGE	37.90	30.47	33.92	(²)	37.72	31.80	37.05	30.02	NA	35.88	25.86
1981	January	41.25	34.26	38.08	, (²)	41.81	36.81	41.55	34.06	NA	39.90	33.80
1301	February	41.90	33.73	37.86	`(²)	42.19	37.23	41.46	34.38	NA	· 40.69	31.20
	March	41.62	33.88	38.11	(²)	41.60	36.42	40.98	34,42	NA	40.72	32.09
		40.96	33.74	37.95	(²)	41.58	34.42	41.04	34.16	NA	40.02	30.97
	April	40.81	32.70	37.72	(²)	40.46	34.83	40.10	33.73	NA	38.31	29.39
	May	40.31	32.67	38.73	(²)	41.44	31.03	39.60	34.29	NA	37.04	31.46
	June		31.19	37.20	(²)	40.27	33.18	40.05	33.72	NA	35.87	29.22
	July	39.59 40.65	30.44	37.20	(²)	40.30	31.77	40.85	33.23	NA	35.40	28.11
	August		30.83	37.52	(²)	37.73	30.84	37.20	33.66	NA	35.26	29.12
	September	41.62	30.63	36.39	(2)	38.15	31.34	36.64	34.88	NA	36.00	28.27
	October	37.52			(2)	38.50	32.42	37.59	34.91	NA	36.87	29.27
	November	37.43	31.04	36.84	(2)	38.89	31.85	37.52	35.37	NA	37.44	29.00
	December	38.14	31.37	37.31	(2)						37.24	29.87
	AVERAGE	40.49	32.16	37.57	(²)	40.92	33.78	39.70	34.19	NA		
1982	January '	38.19	31.05	36.88	(²)	36.91	30.21	37.37	34.44	NA	36.78	29.82
	February	37.09	28.80	36.81	· (2)	35.28	31.47	37.06	34.51	NA	35.04	30.09
	March	32.25	26.71	37.17	(²)	34.80	28.69	35.81	34.92	NA	31.35	23.92
	April	31.66	24.86	36.87	(2)	(2)	27.58	34.82	34.80	NA	33.19	23.09
	May	34.24	24.90	36.50	32.01	(²)	29.18	36.06	34.28	NA	33.22	23.44
	June	35.41	24.63	37.35	NA	(²)	28.76	36.15	35.20	NA	34.41	23.43
	July	35.26	26.62	37.04	32.08	(²)	28.95	36.19	35.04	NA	34.67	24.61
	August	33.87	26.40	36.81	31.84	(²)	28.19	36.16	34.28	NA	33.88	21.90
	September	34.88	26.52	36.65	NA	(²)	28.50	35.56	34.45	NA	34.01	24.53
	October	R35.41	R26.91	36.83	R33.28	(²)	R28.22	R35.98	35.21	NA	R34.56	R23.90
	Novembert	35.56	26.83	36.49	32.66	(2)	28.46	36.03	35.45	NA	34.70	24.34
	1404ettinet i	55.50	20.00	55.70	52.55	()	_55					

¹See Note 4 on the last two pages of this section.

²No crude oil was imported.

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

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

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

Price

U.S. City Average Retail Prices for Motor Gasoline¹

	•	• .			Average
		Leaded Regular	Unleaded Regular	Leaded Premium	for All Types
			Cents per gailo	n, including tax	
1974	AVERAGE	53.2	NA	56.9	NA
1975	AVERAGE	56.7	NA .	60.9	NA
1976	AVERAGE	59.0	61.4	63.6	, NA
1977 .	AVERAGE	62.2	65.6 .	67.4	NA
1978	AVERAGE	62.6	67.0	69.4	65.2
1979	AVERAGE	85.7	90.3	92.2	88.2
1980	January	108.6	113.1	114.9	111.0
	February	115.9	120.7	123.3	118.6
•.	March	120.2	125.2	127.7	123.0
	April	121.2	126.4	129.2	124.2
	May .	121.5	126.6	129.5	124.4
•	June	121.7	126.9	130.0	124.6
	July	121.6	127.1	130.7	124.7
	August	121.0	126.7	131.0	124.3
	September	119.7	125.7	130.4	123.1
	October	118.8	125.0	130.1	122.3
	November	118.8	125.0	129.9	122.2
	December	119.7	125.8	131.0	123.1
	AVERAGE	119.1	124.5	128.1	122.1
1981	January	123.8	129.8	133.8	126.9
	February	132.1	138.2	141.0	135.3
	March	135.2	141.7	144.9	138.8
	April	134.4	141.2	145.1	138.1
	May	133.3	140.0	144.7	137.0
	June	132.4	139.1	144.6	136.2
	July	131.5	138.2	144.6	135.3
	August	131.0	137.6	. 144,4	134.8
	September ²	130.5	137.6	145.6	135.8
	October	129.9	137.1	145.7	135.3
	November	129.7	136.9	146.2	135.1
	December	129.3	136.5	146.0	134.8
	AVERAGE	131.1	137.8	143.9	135.3
1982	January	128.5	135.8	145.6	134.1
,	February	126.0	133.4	143.8	131.8
	March	120.6	128.4	140.7	126.8
	April	114.8 .	122.5	136.8	121.0
	May	116.6	123.7	137.9	122.4
	June ·	124.2	130.9	140.8	129.6
	July	126.3	133.1	145.0	131.8
	August	125.4	132.3	145.8	131.0
	September	123.6	130.8	. 144.1	129.5
	October	121.9	129.5	141.3	128.0
	November	. 120.7	128.3	141.2	126.8
	December	118.1	126.0	137.1	124.4
	AVERAGE	122.2	129.6	141.7	128.1

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

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

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

NA=Not available.

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

Price

Aviation Fuel

		Aviation Gasoline		Naphtha-Type ¹	Kerosene-Type	
	•	Wholesale ²	Retail ²	Retail ²	Wholesale ²	Retall ²
			Cent	s per gallon, excludi	ng tax	
1976	AVERAGE	42.4	43.1	31.5	32.5	31.2
1977	AVERAGE	46.7	47.7	35.0	36.7	35.8
1978	AVERAGE	51.0	52.1	37.5	38.9	38.9
1979	AVERAGE	• 68.5	69.5	52.3	66.5	55.1
1980	January February	90.6 98.5	90.0 97.8	76.0 80.1	83.4 86.2	77.0 83.0
	March	102.9	107.0 109.6	84.1 83.2	86.4 88.4	86.3 87.4
	April May	104.8 106.2	109.7	89.1	89.0	87.6
	June	107.7	111.4	90.0	86.1	88.6
	July	109.3	113.4	91.4	88.3	89.7
	August	110.2	112.9	90.6	86.2	90.7
*	September	110.8	113.4	92.9	86.4	88.8
	October	110.9	113.0	91.2	87.6	88.7
	November	112.4	113.0	92.5	89.9	91.0 91.6
	December	115.1	117.2	96.0	91.4	
	AVERAGE	107.2	109.4	88.2	87.5	87.4
1981	January	118.9	121.6	99.2	97.1	95.7
	February	121.3	128.1	102.7	103.6	101.6
	March	127.2	131.1	106.9	104.8	106.3
	April	117.5	131.3	109.0	103.8	106.4
	May	120.7	133.5	109.1	104.4	106.2
	June	116.5	132.1	107.6	102.3	104.8
	July	120.1	133.4	106.3	100.5	103.8
	August	120.0	132.5	105.7	101.4	103.3
	September	121.0	133.5	105.6	103.0	103.3 101.1
	October	117.2	134.5	104.8	99.9 101.9	101.1
	November	114.4	133.2	104.5	101.9	102.0
	December	116.8	131.9	103.8		
	AVERAGE	118.8	131.5	105.7	102.0	103.1
1982	January	122.4	133.2	101.7	101.3	101.6
	February	122.0	134.0	101.3	100.0	101.0
	March	117.0	134.8	98.4	97.6	99.6
	April	113.4	132.7	96.0	93.0	96.8
	May	109.6	132.7	94.1	91.7	95.5
	June	114.7	132.5	98.4	94.1	95.3 05.3
	July	120.4	134.4	98.7	94.3	95.3 05.4
	August	117.7	132.6	97.3	95.0	95.4 95.1
	September	115.7	130.0	98.2	95.5 R98.4	95.1 95.8
	October	116.6	131.5	98.5	98.1	95.6 96.4
	November†	118.4	130.7	96.4	30. I	30.4

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

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

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

[†]Preliminary data. R=Revised data.

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

Price

National Average Heating Oil Prices¹

·		Refiners' Average Selling Price to Resellers and Retailers	Average Purchase Price Paid by Distributors for Heating Oil ²	Average Distributor Margin on Residential Heating Oil ²	Average Selling Price to Residential Customers ²
			Cents per gallo	n	
1976	AVERAGE	31.4	32.6	NA	40.6
1977	AVERAGE	35.7	36.9	· O NA	46.0
1978	AVERAGE	37.2	38.7	11.0	49.4
1979	AVERAGE	55.9	53.0	12.8	65.6
1980	January	75.0	75.2	16.2	90.8
	February	77.8	79.0	16.7	95.3
	March	78.8	80.4	17.1	97.1
	April	78.8	81.0	17.0	97.4
	May	79.3	81.4	.16.3	
	June	80.2	82.5		97.2
	July	79.2		15.8	97.9
			83.0	15.3	97.9
	August	79.3	82.9	15.2	97.9
	September	79.3	83.0	15.4	98.1
	October	80.7	83.7	15.3	98.7
	November	84.0	86.1	13.8	101.1
	December	88.6	91.3	14.1	106.5
	AVERAGE	80.0	82.2	15.8	97.8
1981	January	94.9	98.6	15.1	114.4
	February	. 102.5	106.0	16.1	123.4
	March	102.8	106.3	17.6	
	April	100.9	105.2		125.5
	May	100.5		17.7	123.9
	June		104.0	17.6	122.7
		99.3	103.0	16.9	120.9
	July	98.5	102.7	17.1	121.0
	August	98.2	102.2	16.2	119.4
	September	97.8	101.6	17.2	119.7
	October	98.0	101.1	16.6	118.8
	November	100.0	102.3	17.6	120.8
	December	100.6	102.6	18.3	122.0
	AVERAGE	99.3	102.6	16.8	120.5
1982	January	99.1	101.5	19.3	122.0
	February	94.7	98.3	21.3	120.7
	March	87.4	91.3	22.6	. —
	April	86.0	90.0		115.3
	Mav	91.2		22.0	113.2
	June	91.2 95.4	95.1	18.4	114.3
		- · ·	98.5	16.9 .	116.2
	July	93.8	98.6	16.3	115.8
	August	92.5	96.7	18.2	115.9
	September	93.3	97.7	16.3	115.2
	October	R98.8	R102.0	R16.7	R119.6
	November†	99.6	101.9	18.9	121.9

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

¹See Note 6 on the last two pages of this section.

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

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

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

Price

Residential Heating Oil Prices by Region

Standard Federal Region¹

Cents per gallon 5 7 1 2 3 4 6 8 9 10 1979 55.1 54.5 53.3 51.5 (2)49.6 50.4 47.6 50.8 January 51.6 53.7 52.9 February 57.7 57.3 55.5 53.2 (2)51.3 51.4 49.4 54.3 50.8 March 57.5 56.3 55.3 55.3 60.6 59.8 (2)54.7 April 62.8 61.9 60.0 57.3 58.8 (2)58.2 58.4 53.8 57.8 (²) May 65.9 64.8 63 4 61.2 62.8 62.0 627 56.2 60.8 June 70.5 69.7 68.4 66.2 68.5 (2) 68.9 67.8 62.2 66.4 (2)75.9 73.9 72.9 70.9 73 2 72.0 68.4 72.3 July 72.5 August 80.1 78.6 77.7 74.8 78.5 (2) 76.4 77,1 71.7 77.2 September 83.3 80.0 79.4 81.5 (2)79.5 80.1 76.8 814 R1 4 October 84.1 82.5 81.7 79.1 82.6 (2)80.2 81.3 81.2 82.6 November 85.1 83.7 82.4 80.5 83.9 (2) 82.2 84.0 80.4 82.3 (2) December 87.2 85.7 85.1 82.9 86.1 85.3 86.3 82.6 84.6 1980 January 91.8 91.0 90.2 88.6 90.4 (2) 90.0 90.2 89.6 91.0 February (2)96.7 95.3 94.7 93.0 93.5 93.6 93.5 95.8 95.7 96.5 97.6 March 98.7 97.2 94.8 94.3 (2)95.1 95.9 93.9 96.6 (2) April 99.2 97.3 94.1 94.5 95.3 99.5 94.7 99.0 May 94.2 95.8 97.7 98.7 96.4 (2) 95.2 95.5 98.6 97.3 (2) (2) June 99.8 97.9 96.8 95.1 95.8 95.3 98.4 96.0 99.8 100.3 96.6 July 98.1 94.2 96.2 93.1 97.0 96.7 100.2 August 100.2 97.9 96.8 94.8 95.7 (2) 95.4 92.1 99.7 100.4 September 100.5 98.2 97.0 95.7 (2)93.7 100.6 94.7 93.0 97 2 October 101.1 98.8 97.4 95.6 95.9 (2) 94.7 94.1 98.6 100.4 November 102.5 103.0 99.9 101.5 98.8 (2)95.2 98.5 103.1 101.0 December 108.5 108.2 105.3 106.6 103.4 (2)99.6 101.8 (2)105.6 1981 January 116.2 117.1 113.2 114.0 110.4 $(^{2})$ 106.3 108.6 107.5 (2)February 125.8 126.6 123.0 124.4 117.8 $(^2)$ 114.2 113.1 113.7 (2)March 127.6 128.4 125.0 125.3 119.3 (2)115.4 119.3 111.5 116.5 April 126.8 126.6 122.7 124.8 118.3 (2) 114.7 118.4 117.5 (2) May 125.5 125.6 122 1 118.8 117.3 114.1 (2)114.5 115.1 115.6 June 124.1 123.6 121.1 115.9 116.5 (2) 116.0 112.5 (2)117.1 123.3 122.9 116.0 July 120.6 120.2 (2)115.9 116.2 (2)118.3 August 122.7 122.2 117.9 117.4 115.1 (2) 112.1 116.9 (2)117.7 September 117.8 122.7 121.4 118.5 120.5 116.2 (2) 111.6 116.8 $(^2)$ October 122.5 122.0 115.3 117.6 116.3 (2)112.0 115.8 (2)118.2 November 123.3 123.2 119.5 118.2 116.7 (2) 115.8 (2)114.1 118.8 December 124.8 124.7 120.7 119.0 117.4 (2)112.4 117.1 (2)120.0 1982 125.3 January 124.7 120.6 (2)118.7 117.1 112.7 116.1 (2)119.7 February 123.2 123.7 119.3 114.9 115.3 116.0 (2)110.9 (2)119.5 (²) (²) March 117.4 119.0 112.3 112.9 111.0 (2) 106.4 109.7 118.1 April 113.9 (2)116.6 112.2 109.4 108.7 100.8 106.3 116.0 May 115.9 117.1 113.2 111.7 110.8 (2)108.7 108.4 (2)116.6 (2) (2) June 117.5 118.5 115.2 113.5 (2)114.4 111.8 112.3 116.0 July 1177 1185 113 4 115.2 113.6 (2)111.7 (2)115.9 August 118.6 118.8 113.9 112.4 111.9 (2) (2) (2) (2)116.3 September (2)119.4 119.3 (2)115.0 112.4 (2) 114.2 (2) 116.2

R122.4

124.8

118.5

120.1

R117.3

118.9

R114.8

115.9

(2)

(2)

R110.5

112.1

R113.1

114.8

(2)

(2)

R117.4

119.1

October

Novembert

R122.3

124.3

Standard Federal Regions are defined in Note 7 on the last two pages of this section.

²Not available for publication.

[†]Preliminary data. R=Revised data.

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

Price Average No. 6 Residual Fuel Oil Prices

			to 0.3 nt sulfur		to 1.0 It sulfur	Greater percent		Ave	Average	
		Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail	
				D	ollars per bar	rel, excluding tax	es			
1976	AVERAGE	12.20	12.54	10.83	11.79	9.98	10.43	10.72	11.49	
1977	AVERAGE	13.45	14.36	12.09	13.45	11.31	12.27	11.96	13.23	
1978	AVERAGE	12.77	14.47	11.95	12.78	10.73	11.70	11.51	12.75	
1979	AVERAGE	19.87	21.21	18.33	19.33	15.89	16.44	17.66	18.67	
1980	January	29.11	30.35	26.15	28.12	21.56	21.98	24.41	26.21	
	February	27.07	30.32	25.82	28.15	20.21	22.22	23.34	26.48	
	March	26.88	30.20	23.73	27.29	17.81	20.34	21.11	25.33	
	April	25.16	28.69	20.38	24.78	16.41	18.36	19.09	22.87	
	May	25.48	31.73	22.72	25.77	17.72	18.04	20.22	23.75	
	June	23.14	31.37	22.35	25.44	17.72	19.27	20.44	24.09	
	July	24.89	28.51	23.44	25.55	19.20	20.58	21.28	23.86	
	August	23.20	30.93	24.98	26.11	20.42	21.45	22.25	25.00	
	September	24.27	33.12	23.46	26.31	20.62	21.71	22.47	25.31	
	October	25.72	31.88	25.86	27.99	22.30	23.29	24.06	26.68	
	November	29.52	33.70	29.40	30.89	27.08	27.50	28.12	30.10	
	December	31.69	35.76	31.29	32.61	28.39	30.03	29.76	32.33	
	AVERAGE	26.41	31.13	24.91	27.59	20.77	22.11	23.14	26.09	
1981	January	34.27	37.23	32.12	33.96	29.12	31.35	31.14	33.65	
	February	38.04	41.60	34.96	37.32	28.96	32.02	31.81	36.04	
	March	37.78	41.19	34.47	38.01	29.55	31.95	31.78	36.11	
	April	35.66	41.71	33.10	35.94	28.35	30.56	30.56	34.70	
	May	33.61	41.09	32.53	35.94	28.77	30.64	30.41	34.11	
	June	28.01	38.30	26.71	32.38	25.33	27.16	25.95	31.03	
	July	29.56	39.02	27.38	31.93	25.62	25.96	26.52	30.57	
	August	30.48	36.57	27.77	32.04	26.03	26.20	27.01	30.52	
	September	29.91	39.17	27.46	32.08	24.80	26.26	26.20	30.33	
	October	30.26	39.90	28.64	31.88	24.96	26.18	26.78	30.32	
	November	31.71	39.48	29.63	31.02	26.09	26.45	27.99	30.16	
	December	31.40	37.65	28.29	32.19	25.39	26.53	27.26	30.90	
	AVERAGE	32.97	39.31	30.56	33.69	27.07	28.57	28.86	32.50	
1982	January	33.03	37.56	28.90	31.13	24.60	25.94	27.07	29.83	
	February	31.67	38.41	29.30	30.95	23.60	24.70	26.29	30.02	
	March	30.95	38.96	27.60	30.57	23.45	24.21	25.73	29.50	
	April	30.11	36.77	27.08	30.00	23.57	24.40	25.46	28.21	
	May	30.38	37.97	27.89	30.05	25.15	25.94	26.52	28.93	
	June	27.98	38.93	28.26	30.89	25.35	26.56	26.62	29.59	
	July	30.05	37.46	27.39	29.84	24.19	26.49	25.97	29.33	
	August	28.86	31.82	27.50	30.37	25.40	26.02	26.34	28.44	
	September	30.22	32.41	27.73	30.45	25.21	25.93	26.49	28.43	
	October	31.98	33.51	R29.51	32.24	R25.72	26.59	R27.52	29.28	
	November†	32.28	34.14	29.36	32.24	26.30	26.96	28.43	30.05	
	•					-			30.00	

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

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

†Preliminary data. R = Revised data.

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

Price

Natural Gas

			Delivered	
		Average Wellhead	to Electric	Average Residential
	•	Value	Plants ¹	Heating
		[Pollars per thousand cubic feet	
1973	AVERAGE	0.22	0.35	1.08
1974	AVERAGE	0.30	0.49	1.25
1975	AVERAGE	0.45	0.77	1.54
1976	AVERAGE	0.58	1.06	1.85
1977	AVERAGE	0.79	1.33	2.26
1978	AVERAGE	0.91	1.48	2.63
1979	AVERAGE	1.18	1.80	3.23
1980	January	1.37	2.00	3.58
	February	1.42	2.10	3.61
	March	1.46	2.13	3.71
	April	1.51	2.09	3.71
	May	1.56	2.17	3.97
	•	1.57	2.15	3.98
	June		2.36	4.14
	July	1.64		
	August	1.64	2.45	4.16
	September	1.69	2.45	4.20
	October	1.71	2.52	4.24
	November	1.76	2.37	3.99
	December	1.74	2.31	4.07
	AVERAGE	1.59	2.28	3.95
1981	January	1.77	2.51	4.10
	February	1.81	2.67	4.13
	March	1.86	2,71	4.21
	April	1.93	2.81	4.25
	May	1.95	2.92	4.61
	June	1.95	2.95	4.61
	July	2.01	2.97	4.64
	August	2.02	2.99	4.70
		2.02	2.95	4.90
	September		3.07	4.91
	October	2.11		
	November	2.15	3.07	4.88
	December	2.16	2.97	4.75
	AVERAGE	1.98	2.91	4.56
1982	January	R2.21	3.07	4.86
	February	R2.23	3.18	4.87
	March	R2.31	3.25	5.06
	April	R2.35	3.32	5.18
	May	R2.41	3.42	5.63
	June	R2.44	3.57	5.62
	July	2.45	3.69	5.60
	August	2.49	3.67	5.56
	September	R2.52	3.67	5.82
	October	2.55	3.68	6.11
	Octobel	2.33	3.00	0.11

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

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

R=Revised data.

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

Electricity

Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants **Average Retail Electricity Prices** for Privately Owned Utilities¹

		Coal	Residual Oil²	Natural Gas³	Ali Fossil Fuels²	Residential	Commercial	Industrial	Other	Total ⁴
			Cents per	million Btu			Cents pe	r kilowatt-hou	r	
1973	AVERAGE	40.5	78.8	33.8	47.5	2.54	2.41	1.25	2.10	1.96
1974	AVERAGE	71.0	191.0	48.1	90.9	3.10	3.04	1.69	2.75	2.49
1975	AVERAGE	81.4	201.4	75.4	103.0	3.51	3.45	2.07	3.08	2.92
1976	AVERAGE	84.8	195.9	103.4	110.4	3.73	3.69	2.21	3.27	3.09
1977	AVERAGE	94.7	220.4	130.0	127.7	4.05	4.09	2.50	3.51	3.42
1978	AVERAGE	111.6	212.3	143.8	139.3	4.31	4.36	2.79	3.62	3.69
1979	AVERAGE	122.4	299.7	175.4	162.1	4.64	4.68	3.05	3.96	3.99
1980	January February	128.7 129.9	423.5 429.7	194.8 205.1	187.3 190.0	4.69 4.74	4.90 4.97	3.32 3.32	4.19 4.63	4.21 4.25
		. —								
	March	130.1	409.8	207.9	184.2	4.92	5.17	3.45	4.69	4.40
	April	133.8	398.5	204.0	177.2	5.14	5.28	3.49	4.71	4.48
	May	133.4	403.5	212.0	180.4	5.41	5.44	3.59	4.97	4.63
	June	135.1	392.7	209.3	178.8	5.60	5.61	3.79	4.58	4.85
	July	137.4	394.5	228.2	199.0	5.66	5.65	3.93	4.93	5.03
	August	137.9	404.9	237.2	195.2	5.72	5.64	3.94	4.81	5.07
	September	138.9	411.3	238.7	193.1	5.69	5.73	3.89	4.95	5.03
	October	138.1	452.2	245.7	192.7	5.68	5.84	3.84	4.88	4.95
	November	139.3	496.0	231.3	200.0	5.60	5.70	3.85	5.06	4.89
	December	137.8	521.9	226.3	206.6	5.49	5.69	3.88	4.82	4.90
	AVERAGE	135.1	427.9	221.4	190.4	5.36	5.48	3.69	4.76	4.73
1981	January	142.7	540.2	245.9	219.2	5.43	5.72	3.94	4.92	4.96
	February	146.3	572.9	260.5	218.2	5.52	5.83	3.95	5.01	4.99
	March	148.3	583.9	264.0	215.0	5.76	6.01	4.04	5.33	5.12
	April	146.9	568.3	273.5	241.9	5.99	6.14	4.07	5.20	5.20
	May	146.7	552.8	282.7	250.6	6.26	6.29	4.16	5.47	5.36
	June	152.7	506.1	286.3	234.6	6.49	6.48	4.36	5.37	5.59
	July	156.5	496.3	288.6	227.5	6.58	6.47	4.48	5.61	5.76
	August	157.0	494.4	291.1	220.2	6.62	6.49	4.49	5.52	5.78
	September	157.2	501.0	286.5	212.3	6.63	6.48	4.49	5.65	5.74
	October	160.2	511.9	300.7	217.7	6.57	6.52	4.40	5.31	5.64
	November	159.1	521.0	300.0	215.1	6.42	6.48	4.46	5.43	5.61
	December	156.7	505.0	291.4	215.5	6.32	6.46	4.56	5.43 54.60	5.65
	AVERAGE	153.2	529.4	282.5	222.5	6.20	6.29	4.29	5.28	5.46
1982	January	160.8	484.6	301.0	226.5	6.22	6.49	4.66	5.44	5.74
	February	164.1	487.6	310.4	222.2	6.35	6.68	4.70	5.84	5.84
	March	165.6	470.9	315.8	219.8	6.58	6.79	4.83	6.39	5.97
	April	164.6	478.0	323.5	214.3	6.72	6.82	4.84	5.77	5.99
	May	165.0	486.0	331.6	215.7	6.94	6.86	4.95	5.91	6.09
	June	167.0	479.6	345.8	224.7	7.08	6.94	4.92	6.01	6.18
	July	164.4	468.8	356.2	237.6	7.18	6.98	5.12	6.13	6.38
	August	164.7	458.8	355.7	227.6	7.22	6.91	5.14	6.09	6.40
	September	165.9	464.4	358.5	226.9	7.18	6.97	5.25	6.07	6.41
	October	164.7	479.3	360.4	219.9	7.10	7.09	5.25	5.81	6.33
	Novembert	NA	NA	NA	NA	6.94	7.0 9 7.04	4.88	5.69	6.14
	.1010111001	13/2	14/7	170	170	0.54	7.04	4.00	5.08	0.14

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

¹The 1973 through 1979 data are for Classes A and B privately owned electric utilities only. The 1980 and forward data are for selected Class A utilities whose electric operating revenues were \$100 million or more during the previous year.

²See Note 8 on the last two pages of this section.

³Includes small quantities of coke oven gas, refinery gas, and blast furnace gas.

⁴Average price for total sales to ultimate consumers.

⁵Includes a major adjustment by one utility.

†Preliminary data. NA=Not available.

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

Notes and Sources for the Price Section

Notes

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

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

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

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 ER

averages derived from EHA Form 49 exclude oil purchased for SFA, whereas the composite averages derived from EHA Form 49 include SPR. None of the prices derived from EIA Form 14 include either unfinished oils or SPR.

3. FOB literally means "Free on Board." It denotes a transaction whereby the seller makes the product available with an agreement on a given port at a given price; it is the responsibility of the buyer to arrange for the transportation and insurance.

4. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to March 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in March 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.

5. The motor gasoline prices are calculated monthly by the Bureau of Labor Statistics in conjunction with the construction of the Consumer Price Index (CPI). For the period 1974 through 1978, prices were collected in 56 urban areas. For the period 1978 forward, prices were collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing 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).

6. The survey and method used to derive data for March 1976 forward differ from those used for prior months. Data for January

1974 through February 1976 are derived from a survey of distributors, and prices and margins are computed as unweighted averages. The average distributor purchase price and average dealer margin for March 1976 forward are for distributors only, whereas the average selling price includes both refiners and distributors. Data for March 1976 forward are computed as sales weighted averages

7. Standard Federal Regions are defined as follows:

Region 1 — Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island;
Region 2 — New York, New Jersey, Puerto Rico, Virgin Islands;
Region 3 — Pennsylvania, Maryland, West Virginia, Virginia, the District of Columbia, Delaware;
Region 4 — Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone; -Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio;

-Texas, New Mexico, Oklahoma, Arkansas, Louisiana;

Region 7 -

-Kansas, Missouri, Iowa, Nebraska; -Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado; -California, Nevada, Arizona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guam; Region 9 -

Region 10 — Washington, Oregon, Idaho, Alaska.

8. Residual fuel oil prices include fuel oils No. 4, No. 5, and No. 6, and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (No. 2 fuel oil, kerosene, and jet fuel) prices.

Sources

Petroleum and Petroleum Products: • Actual domestic average wellhead prices—Economic Regulatory Administration (ERA), January 1976: FEA Form 90, "Crude Petroleum Production Monthly Report"; February 1976 forward: ERA Form 182, "Domestic Crude Oil First Purchase Report.'

Refiner acquisition costs—Energy Information Administration (EIA), January 1976: FEO Form 96, "Monthly Cost Allocation Report"; February 1976 through June 1978: FEA Form P110-M-1, "Refiners' Monthly Cost Allocation Report"; July 1978 through December 1980: ERA Form 49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report"; January 1981 forward: EIA Form 14, "Refiners' Monthly Cost Report."
No. 6 residual oil prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."
No. 2 diesel prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

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

Notes and Sources for the Price Section (continued)

Petroleum and Petroleum Products (continued):

• No. 2 heating oil (residential heating oil) prices-EIA, 1976 through October 1980: FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" and EIA Form 9A, "No. 2 Distillate Price Monitoring Report"; November 1980 forward: EIA Form 9A, "No. 2 Distillate Price Monitoring Report."

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

 Motor gasoline prices—Bureau of Labor Statistics.

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

 Crude oil imports costs—Environmental Protection, Safety and Emergency Preparedness, 1975 through January 1979: FEA Form F701-M-0, "Transfer Pricing Report"; February 1979 forward: ERA Form 51, "Transfer Pricing Report."

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

 Natural Gas: Annual data for wellhead values are from the appropriate agencies of the individual producing States and the U.S. Minerals Management Service; monthly data are estimated primarily on the basis of values reported by State agencies in New Mexico, Oklahoma, and Texas, which together provide data for almost 50 percent of total U.S. marketed production excluding penhydrocarbon gases removed. Monthly data for 1980 and 1981 have been adjusted to conform with final reported. excluding nonhydrocarbon gases removed. Monthly data for 1980 and 1981 have been adjusted to conform with final reported annual data.
- Electric plant data—Energy Information Administration (EIA), FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Average residential heating prices—Bureau of Labor Statistics.
Electricity: Cost of fossil fuels—EIA, FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."
Retail prices—EIA, January 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: FERC Form 5, "Electric Utility Company Monthly Statement."

Crude Oil Production

World crude oil production during October 1982 was 54.3 million barrels per day, up 1.2 million barrels per day (2.3 percent) from the September 1982 level.

Organization of Petroleum Exporting Countries (OPEC) output during October 1982 averaged 19.7 million barrels per day, up 1.2 million barrels per day from the previous month's average. Libya, Nigeria, and Saudi Arabia each increased production by 0.3 million barrels per day during October. Production by Arab members of OPEC averaged 11.7 million barrels per day, 0.6 million barrels per day higher than the September 1982 level.

Among non-OPEC nations, October 1982 crude oil production for major producers did not change significantly from the September 1982 levels.

Petroleum Consumption

Preliminary petroleum consumption data for October 1982 were available for France, Italy, and the United States. In comparison to October 1981, consumption in each country declined. U.S. consumption in October 1982 was 1.0 million barrels per day lower than in October 1981.

Petroleum Stocks

Preliminary data on petroleum stocks for October 1982 were available for Canada, Italy, Japan, the United Kingdom, the United States, and West Germany. Petroleum stocks in each country were lower than in October 1981. Petroleum stocks for all Organization for Economic Cooperation and Development members stood at 3,288 million barrels at the end of June 1982 (latest data available), a decrease of 269 million barrels (7.6 percent) from stocks held at the end of June 1981. The United States held 1,362 million barrels (41.4 percent) of the June 1982 stocks.

Nuclear Electricity Production

In November 1982, the 19 non-Communist nations with significant nuclear power capacity generated 65.3 billion gross kilowatthours of nuclear-based electricity. On a perday basis, this generation was up 3.4 percent from the October 1982 output and up 8.7 percent compared to generation during November 1981.

On October 1, 1982, Doel-3, a 936-gross megawatt (MWe) pressurized water reactor operated by the Societes Reunies d'Energie du Bassin de l'Escaut in Belgium, began commercial operation. On November 1, 1982. Ontario Hydro was authorized by the Canadian Atomic Energy Control Board to increase the capacity rating of each of its four Bruce units from 800 to 826 gross MWe. In Sweden, the capacity Oskarshamn-2 was increased from 590 to 615 gross MWe. The Swedish utility Oskarshamnsverkets Kraftgrupp attributed this increase to a new technique for increasing the unit's thermal output without adversely affecting fuel elements toward the center of the core.

The addition of Doel-3 and San Onofre-3 (see page 75) increased the number of operational, non-Communist power reactors to 233 units with a collective generating capacity of 159.0 million gross kilowatts (GWe). The 79 U.S. units accounted for 66.6 GWe (42 percent) of this capacity.

Electricite de France (EdF) was authorized by the French Research and Industry Ministry to begin startup and power testing at its Chinon-B1 station. Chinon-B1 is the 23rd unit in EdF's 900-gross MWe series, planned to include 34 operating units by 1987.

Correction: The January issue of the *Monthly Energy Review* erroneously stated that Kuosheng-2 in Taiwan began commercial operation in October. As of November 1982, the unit was still in power testing.







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	January February	1,150 1,150	3,400 3,400	2,140 2,335	2,100 2,100	495 460	9,785 9,780	1,740 1,740	20,810 20,965	1,565 1,550	2,295 2,500
	March	1,150	3,400	2,090	2,000	500	9,790	1,695	20,625	1,575	2,350
	April	1,000	3,300	1,570	1,750	500	9,765	1,705	19,590	1,580	2,200
	May	1,000	3,300	1,525	1,750	480	9,775	1,765	19,595	1,550	1,700
	June	1,000	3,300	1,575	1,700	440	9,775	1,750	19,540	1,545	1,500
	July	1,000	3,100	1,365	1,680	460	9,765	1,710	19,080	1,565	1,700
	August	1,000	3,100	1,465	1,690	465	9,765	1,665	19,150	1,565	1,600
	September	1,000	3,000	1,290	1,680	460	9,740	1,670	18,840	1,565	1,400
	October	1,000	150	1,385	1,665	440	10,255	1,675	16,540	1,585	600
	November December	1,000 1,000	350 450	1,505 1,779	1,680 1,680	475 483	10,265 10,260	1,695 1,706	16,930 17,360	1,630 1,617	800 1,360
	AVERAGE	1,000	2,514	1,656	1,787	472	9,900	1,709	19,050	1,577	1,662
1981	January	950	600	1,765	1,600	505	10,265	1,620	17,305	1,630	1,600
	February	950	700	1,565	1,650	480	10,265	1,605	17,215	1,620	1,700
	March	950	1,000	1,560	1,600	505	10,110	1,610	17,335	1,635	1,700
	April	900	1,000	995	1,600	515	10,195	1,570	16,775	1,630	1,600
	May		1,000	990	1,400	435	10,140	1,550	16,415	1,600	1,500
	June July	800 725	1,000 1,100	1,080 1,200	1,200 750	340 380	10,180	1,435 1,415	16,035 15,740	1,600 1,600	1,600 1,400
	August	600	1,100	830	700	295	10,170 10,330	1,415	15,740	1,600	1,400
	September	. 550	1,100	. 855	700	365	9,155	1,465	14,190	1,600	1,100
	October	700	1,100	985	700	360	9,685	1,480	15,010	1,600	920
	November	750	1,100	890	900	340	8,640	1,365	13,985	1,600	930
	December	. 800	1,100	895	1,000	340	8,645	1,430	14,210	1,580	1,200
	AVERAGE	805	1,000	1,125	1,140	405	9,815	1,474	15,764	1,605	1,380
1982	January	800	1,500	805	1,000	405	8,655	1,450	14,615	1,490	1,100
	February	700	1,500	840	600	375	8,440	1,375	13,830	1,450	1,200
	March	600	1,500	745	600	300	7,145	1,365	12,255	1,400	1,800
	April . May	600 620	900 · 750	680 720	700 800	230 320	6,630 5,870	1,215 1,125	10,955	1,245	1,800
	June	650	750	720 840	1,000	410	5,670 6,670	1,125	10,205 11,530	1,240 1,305	2,500 2,500
	July	650	800	870	1,300	275	6,170	1,160	11,225	1,305	•
	August	700	800	920	1,300	340	5,920	1,155	11,135	1,240	2,200
	September	800	800	885	1,400	285	5,685	R1,155	R11,010	1,300	2,700
	October	800	800	860	1,700	380	5,960	1,155	11,655	1,370	2,700

Additional footnotes on following page.

U.S. geographic coverage: the 50 United 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.

Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In October 1982, total production in this region amounted to approximately 318,000 barrels per day.

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

and the United Arab Emirates.

Crude Oil Production for Major Petroleum Producing Countries (continued)

		Nigeria	Vene- zuela	Total OPEC ³	Canada	Mexico	United Kingdom	United States	China	USSR	Other	World
						Thousand	l barrels pe	r day				
1973	AVERAGE	2,054	3,366	30,989	1,800	465	2	9,208	1,090	8,465	3,655	55,674
1974	AVERAGE	2,255	2,976	30,729	1,684	571	2	8,774	1,315	9,000	3,777	55,852
1975	AVERAGE	1,783	2,346	27,155	1,439	705	12	8,375	1,490	9,625	4,079	52,880
1976	AVERAGE	2,067	2,294	30,738	1,295	831	245	8,132	1,670	10,143	4,258	57,312
1977	AVERAGE	2,085	2,238	31,278	1,320	981	768	8,245	1,874	10,682	4,537	59,685
1978	AVERAGE	1,897	2,166	29,805	1,313	1,209	1,082	8,707	2,082	11,185	4,674	60,057
1979	AVERAGE	2,302	2,356	30,928	1,496	1,461	1,568	8,552	2,122	11,460	4,948	62,535
1980	January	2,155	2,280	29,535	1,515	1,720	1,600	8,675	2,111	11,615	5,060	61,831
	February	2,160	2,200	29,805	1,475	1,725	1,660	8,705	2,127	11,590	5,043	62,130
	March	2,155	1,995	29,100	1,475	1,830	1,670	8,698	2,119 2.121	11,615	5,020 5,245	61,527
	April	2,100	2,045	27,965	1,390 1,470	1,885 1,910	1,510 1,600	8,685 8.635	2,121	11,680 11,750	4,903	60,481 60,046
	May June	2,200 2,110	2,150 2,050	27,645 27,175	1,535	1,905	1,625	8,554	2,132	11,660	5,117	59,703
	July	2,110	2,030	27,173	1,520	2,015	1,585	8,547	2,124	11,825	4,865	59,511
	August	2,050	2,170	27,030	1,440	2,000	1,535	8,414	2,143	11,875	5.065	59,482
	September	1,600	2,190	25,955	1,420	2.125	1,540	8,619	2,110	11,950	4,963	58,682
	October	1,879	2,225	23,255	1,311	2,182	1,572	8,532	2.076	11,875	5,231	56,034
•	November	2,062	2,230	24,065	1,467	1,901	1,731	8,495	2,088	11,930	5,101	56,778
	December	2,026	2,330	25,050	1,300	2,027	1,795	8,606	2,083	11,850	5,307	58,018
	AVERAGE	2,055	2,168	26,890	1,435	1,936	1,622	8,597	2,114	11,773	5,171	59,538
1981	January	1,900	2,220	25,025	1,390	2,220	1,765	8,540	2,024	11,900	5,111	57,975
	February	1,960	2,195	25,075	1,390	2,120	1,820	8,604	2,025	11,900	5,161	58,095
	March	1,875	2,240	25,190	1,280	2,365	1,885	8,613	2,025	11,900	5,152	58,410
	April	1,625	2,200	24,215	1,330	2,540	1,750	8,557	2,011	11,900	5,122	57,425
	May	1,295	2,200	23,380	1,250	2,545	1,770	8,501	2,025	11,900	5,264	56,635
	June	1,350	1,990	22,945	1,235	2,300	1,765	8,629	2,025	11,900	5,066	55,865
	July	770	1,760	21,620	1,270	2,095	1,750	8,500	2,010	11,900	5,215	54,360
	August	710	1,960	21,050	1,235	2,260	1,760	8,583	2,020	11,900	4,962	53,770
	September	1,065	2,080	20,385	1,265	2,480	1,830	8,604	1,990	11,900	5,166	53,620
	October	1,250	1,970	21,200	1,120	2,490	1,845	8,563	2,020	11,900	5,247	54,385
	November	1,590	2,230	20,575	1,280	2,090	1,840	8,586	2,020	11,900	5,109	53,400
	December AVERAGE	1,820 1,433	· 2,260 2,102	21,230 22,624	1,380 1,285	1,980 2,313	1,870 1,811	8,585 8,572	2,020 2,012	11,900 11,909	5,135 5,262	54,100 55,788
1982		•	•	21,285	•	•			•	•	5,488	54,800
1902	January February	1,765 1,395	1,985 1,730	19,950	1,218 1,275	2,315 2,550	1,905 1,955	8,669 8,690	2,020 2,020	11,900 11,900	5,466 5,560	53,900
	March	945	1,730	18,615	1,275	2,550	2,000	8,597	2,020	11,900	5,341	52,200
	April	890	1,490	16,725	928	2,780	2,110	8,652	2,025	11,900	5,480	50,600
	May	1,310	1,480	17,075	1,114	2,715	2,085	8.660	2,025	11,900	5,526	51,100
	June	1,645	1,500	18,845	1,330	2,790	2,140	8,681	2,025	11,900	5,489	53,200
	July	1,280	1,800	18,450	1,235	2,790	2,120	8,649	2,025	12,000	5,506	52,775
	August	1,105	2,000	18,045	1,300	2,795	2,125	8,701	2,025	12,000	5,549	52,540
	September	1,170	R1,990	R18,515	1,300	2,830	2,175	8,733	2,025	12,000	5,497	R53,075
	October	1,480	2,160	19,715	1,300	2,900	2,225	8,676	2,025	12,000	5,459	54,300

Footnotes continued.

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

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

R = Revised data.

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

Petroleum Consumption for Major Non-Communist Industrialized Countries¹

		Canada	France ²	Italy	Japan	United Kingdom	United States	West Germany	Other IEA ³	Total IEA ⁴
		•			Thou	sand barrels p	oer day			•
1973	AVERAGE	1,597	2,219	1,525	5,000	1,958	17,308	2,693	4,069	34,150
1974	AVERAGE	1,630	2,094	1,521	4,872	1,829	16,653	2,408	4,047	32,960
1975	AVERAGE	1,595	1,925	1,468	4,568	1,633	16,322	2,319	3,905	31,810
1976	AVERAGE	1,647	2,075	1,503	4,786	1,601	17,461	2,507	4,265	33,770
1977	AVERAGE	1,661	1,973	1,476	5,015	1,655	18,431	2,478	4,214	34,930
1978	AVERAGE	1,701	2,077	1,551	5,115	1,683	18,847	2,596	4,387	35,880
1979	AVERAGE	1,766	2,107	1,607	5,173	1,690	18,513	2,664	4,487	35,900
1980	January February	1,820 1,930	2,465 2,444	1,778	5,255	1,769	18,851	2,690	4,337	36,500
	March	1,720	•	1,864	5,722	1,621	18,817	2,410	4,736	37,100
		1,600	1,982	1,657	5,433	1,585	17,377	2,430	4,398	34,600
	April May		2,110	1,541	4,626	1,472	16,784	2,680	4,197	32,900
	June	1,590 1,660	1,853	1,448	4,376	1,348	16,238	2,230	3,870	31,100
	July	•	1,848 1,450	1,511	4,224	1,286	16,187	2,220	4,012	31,100
	•	1,680		1,537	4,250	1,217	16,008	2,420	3,988	31,100
	August	1,650	1,220	1,310	3,910	1,120	15,753	2,150	3,807	29,700
	September October	1,710	1,740	1,650	4,120	1,270	16,598	2,540	4,112	32,000
		1,770	2,050	1,670	4,250	1,430	16,995	2,230	3,855	32,200
	November	1,720	2,040	1,530	4,550	1,440	16,702	2,110	3,948	32,000
	December	1,940	2,410	1,740	5,350	1,480	18,410	2,190	4,390	35,500
	AVERAGE	1,730	1,965	1,602	4,680	1,420	17,056	2,360	4,152	33,000
1981	January	1,760	2,310	1,880	4,980	1,400	18,430	2,230	4,420	35,100
	February	1,770	2,170	2,195	5,350	1,460	16,989	2,510	4,126	34,400
	March	1,550	1,790	1,895	5,020	1,430	15,907	2,100	3,598	31,500
	April	1,600	1,500	1,785	4,140	1,290	15,350	1,810	3,925	29,900
	Мау	1,490	1,670	1,410	3,600	1,190	15,353	1,880	3,977	28,900
	June	1,635	1,600	1,510	3,915	1,210	16,095	2,155	3,880	30,400
	July	1,620	1,450	1,580	4,160	1,170	15,682	2,150	4,138	30,500
	August	1,630	1,160	1,360	4,100	1,125	15,263	2,111	3,711	29,300
	September	1,595	1,425	1,715	4,060	1,285	15,655	2,085	3,905	30,300
	October	1,585	1,655	1,600	4,085	1,390	15,822	2,305	4,013	30,800
	November	1,595	2,010	1,650	4,610	1,470	15,593	2,030	4,052	31,000
	December	1,635	2,215	1,930	5,425	1,380	16,596	2,100	3,934	33,000
	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	15,890	1,935	3,800	31,000
	February	1,715	1,815	1,795	5,275	1,465	15,941	2,230	4,179	32,600
	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	16,048	2,125	3,962	30,400
	May	1,325	1,580	1,510	3,515	1,210	14,845	1,770	3.625	27,800
	June	1,430	1,505	1,520	3,780	1,280	14,931	2,115	3,704	28,900
	July	1,390	1,455	1,475	3,995	1,235	14,771	1,955	3,679	28,500
	August	1,500	1,295	1,410	3,705	1,170	14,838	2,105	3,672	28,400
	September	1,420	1,510	1,630	3,890	1,290	14,921	1,970	3,779	28,900
	October	NA	1,605	1,555	NA.	·NA	14,820	NA	NA NA	20,900 NA
			•	•			,		. ** 1	14/1

Note: Data for 1980 through 1982 are preliminary. Sources: • See the last page of this section.

10Y.

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

¹These data represent inland consumption, i.e., sales of petroleum products excluding refinery fuel, refinery losses, and ocean bunkers except for the United States, where it represents domestic products supplied.

²Not a member of the International Energy Agency (IEA).

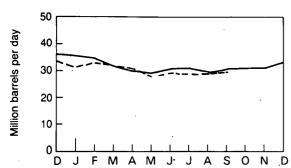
³Other is a calculated total derived from the difference between total IEA consumption and the IEA nations represented above.

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

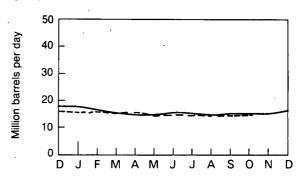
NA = Not available.

Petroleum Consumption

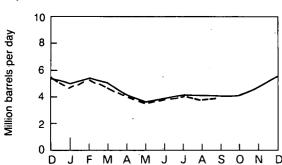
Total IEA



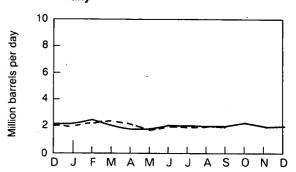
United States



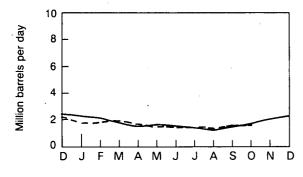
Japan*



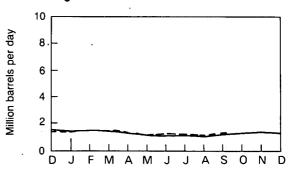
West Germany



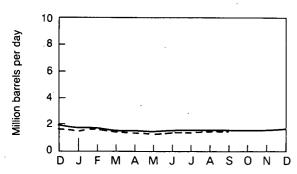
France**



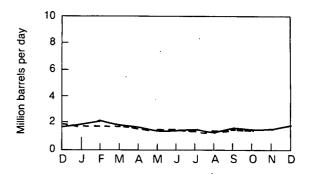
United Kingdom



Canada



Italy***





^{*}Excludes liquefied petroleum gases and condensates.

^{**}Not a member of IEA.

^{***}Principal products only.

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

						•				
		Canada	France	Italy	Japan	United Kingdom	United States	West Germany	Other OECD ²	Total OECD ³
			•			Million barrel	s			
1973		149	203	NA	303	156	1,008	NA	NA	NA
1974	•	164	240	169	370	191	1,074	215	NA	. NA
1975		167	239	143	375	164	1,133	190	NA	NA
1976		156	231	142	394	165	1,112	214	NA	NA
1977		170	241	162	399	147	1,312	236	485	3,152
1978		148	214	153	422	147	1,278	239	487	3,089
1979		. 156	231	163	457	163	1,341	273	574	3,358
1980	January	156	228	164	445	164	1,351	282	NA	NA
	February	153	225	153	419	162	1,343	305	NA	NA
	March	156	233	152	· 427	163	1,348	299	557	3,335
	April	161	220	155	442	160	1,367	287	NA	NA
	May	168	233	164	463	167	1,387	300	NA	NA
	June	171	239	s 165	471	174	1,411	313	584	3,527
	July	178	247	176	494	172	1,425	308	NA	NA
	August	184	266	186	508	176	1,449	315	NA	NA
	September	183	264	192	508	173	1,447	306	632	3,705
	October	178	271	186	497	169	1,447	307	NA	3,705 NA
		178	260	179	488	170				
	November	172	254				1,432	313	NA	NA 0.570
	December	171	254	173	481	169	1,392	323	610	3,573
1981	January	169	234	155	479	168	1,388	319	NA	NA
	February	162	235	184	457	170	1,389	312	NA	NA
	March	165	227	158	452	164	1,401	317	581	3,465
	April	174	235	169	484	165	1,415	322	NA	NA
	May	176	229	173	496	162	1,438	321	NA	NA
	June	179	225	171	484	158	1,430	312	598	3,557
	July	179	228	177	476	153	1,439	305	NA	NA
	August	184	233	189	483	151	1,457	308	NA	NA
	September	181	241	187	493	151	1,476	307	591	3,627
	October	172	238	188	500	149	1,485	303	NA	NA
	November	163	230	178	483	147	1,501	300	NA	NA
	December	164	222	167	466	145	1,484	297	575	3,520
1982	January	163	222	165	464	NA	1,461	280	NA	NA .
	February	156	215	162	460	NA	1,431	280	NA	NA
	March	149	207	158	480	133	1,401	279	524	3,331
	April	148	201	154	483	NA	1,350	312	NA	NA
	May	147	193	154	484	NA	1,349	310	NA	NA
•	June	131	200	156	466	141	1,362	288	544	3,288
	July	130	205	160	460	134	1,394	286	NA	NA NA
	August	137	NA	179	470	139	1,407	311	NA	NA
	September	140	NA	180	462	133	1,415	300	NA	NA .
	October	135	NA	177	471	135	1,434	299	NA NA	NA
							.,		. •, •	, ,,,

NA = Not available.

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

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

'Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined products.

Petroleum stocks include all non-military 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.

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

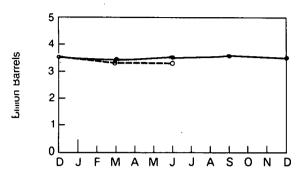
The members of OECD are listed in Note 2 on the last page of this section.

NA = Not available.

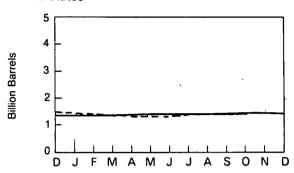
Sources: . See the last page of this section.

Petroleum Stocks

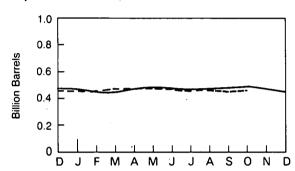
Total OECD



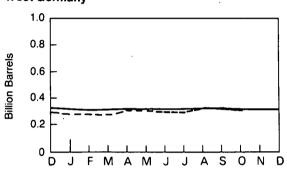
United States



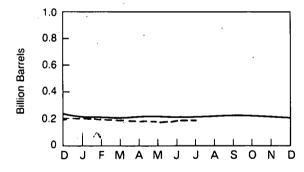
Japan



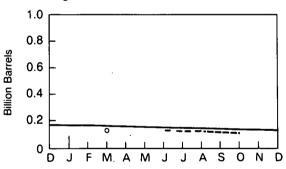
West Germany



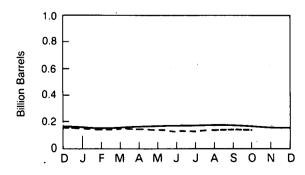
France



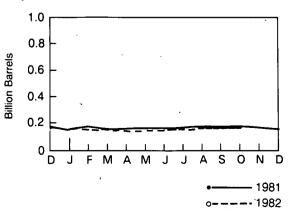
United Kingdom



Canada



Italy



International Nuclear Electricity Generation by Non-Communist Countries¹

1974 TOTAL 1.0 0.1 0 15.4 0 14.7 2.5 3.4 18.1 3.3 0.0 1975 TOTAL 2.5 6.8 0 13.2 0 18.3 2.5 3.8 22.2 3.3 0.1 1976 TOTAL 2.6 10.0 0 18.0 0 15.8 3.2 3.8 36.8 3.9 0.1 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 0.1 1979 TOTAL 2.7 11.4 0 38.4 6.7 39.9 3.2 2.6 62.0 3.5 (s 1980 January 0.3 1.2 0 3.6 0.8 5.5 0.2 0.2 8.0 0.4 (c 1980 January 0.1 1.0 0 3.5 0.8 5.3 0.1 0.4 7.4 0.4 (c 1980 January 0.1 1.0 0 3.5 0.8 5.3 0.1 0.4 7.4 0.4 (c 1980 January 0.1 1.0 0 3.7 0.8 5.1 0.2 0.5 8.0 0.4 (c 1980 June 0.2 0.7 0 2.5 0.3 4.2 0.3 0.3 0.4 5.6 0.3 (d 1980 June 0.2 0.7 0 2.5 0.3 4.2 0.3 0.3 0.4 5.6 0.3 (d 1980 June 0.2 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (d 1980 June 0.2 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (d 1980 June 0.2 1.3 0 3.6 0.4 4.8 0.2 0.1 7.8 0.4 (s 1980 June 0.3 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (d 1980 June 0.3 1.1 0 3.1 0 4.4 5.0 3.0 0.1 8.6 0.4 (s 1980 June 0.3 1.1 0 3.1 0 3.1 0 4.4 5.0 3.0 0.1 8.6 0.4 (s 1980 June 0.3 1.1 0 3.1 0 3.4 4.5 0.3 0.1 7.0 0.4 (s 1980 June 0.3 1.1 0 3.1 0 3.4 0.5 5.8 0.3 0.1 0.4 0.4 (s 1980 June 0.3 1.1 0 3.1 0 3.4 0.5 5.8 0.3 0.1 0.5 0.3 (s 1980 June 0.3 1.2 0 3.5 5.1 0.2 0 6.0 0.3 (s 1980 June 0.3 1.1 0 3.1 0 3.4 0.6 5.8 0.3 0 5.4 0.3 (s 1980 June 0.3 1.1 0 3.1 0 3.4 0.6 5.8 0.3 0 5.4 0.3 (s 1980 June 0.3 1.2 0 3.5 5.1 0.2 0 6.0 0.3 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.3 0.3 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.3 0.3 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.3 0.3 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.3 0.3 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.3 0.3 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.0 0.3 0.3 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.3 0.3 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.3 0.3 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.3 0.3 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.3 0.3 0.1 7.0 0.4 (s 1980 June 0.2 1.2 0 3.5 5.1 0.2 0 6.3 0.3 0.1 7.0 0.4 (s 1980 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 0.4 (s 1980 June 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 7.8 0.3 0.4 (s 1980 June 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 7.0 0.4 (s 1980 June 0.2 1.2 0 3.6 0.			Argen- tina	Belgium	Brazil	Canada	Finland	France	India	Italy	Japan	Nether- lands	Paki- stan
1974 TOTAL 1.0 0.1 0 15.4 0 14.7 2.5 3.4 18.1 3.3 0.0 1975 TOTAL 2.5 6.8 0 13.2 0 18.3 2.5 3.8 22.2 3.3 0.1 1976 TOTAL 2.6 10.0 0 18.0 0 15.8 3.2 3.8 36.8 3.9 0.1 1977 TOTAL 1.6 11.9 0 26.8 2.7 17.9 2.8 3.4 28.1 3.7 0.1 1978 TOTAL 2.9 12.5 0 32.9 3.3 30.5 2.3 4.4 53.2 4.1 0.1 1979 TOTAL 2.7 11.4 0 38.4 6.7 39.9 3.2 2.6 62.0 3.5 (s 1980 January 0.3 1.2 0 3.6 0.8 5.5 0.2 0.2 8.0 0.4 (c 1980 January 0.1 1.0 0 3.5 0.8 5.3 0.1 0.4 7.4 0.4 (c 1980 January 0.1 1.0 0 3.5 0.8 5.3 0.1 0.4 7.4 0.4 (c 1980 January 0.1 1.0 0 3.7 0.8 5.1 0.2 0.5 8.0 0.4 (c 1980 July 0.2 0.7 0 2.5 0.3 4.2 0.3 0.3 0.4 5.6 0.3 0.4 5.6 0.3 July 0.2 0.7 0 2.5 0.3 4.2 0.3 0.3 6.0 0.3 (c 1980 July 0.2 1.3 0 3.6 0.4 4.8 0.2 0.1 6.7 0.3 (c 1980 July 0.2 1.3 0 3.6 0.4 4.8 0.2 0.1 7.8 0.4 (s 2980 July 0.3 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (s 2980 July 0.3 1.1 0 3.1 0 3.1 0 4.4 5.0 0.3 0.1 8.6 0.4 (s 2980 July 0.3 1.1 0 3.1 0 3.1 0 4.4 5.0 0.3 0.1 8.6 0.4 (s 2980 July 0.3 1.1 0 3.1 0 3.4 4.5 0.3 0.1 7.0 0.4 (s 2980 July 0.3 1.1 0 3.1 0 3.1 0 4.5 0.3 0.1 7.0 0.4 (s 2980 July 0.3 1.1 0 3.1 0 3.4 4.5 0.3 0.1 7.0 0.4 (s 2980 July 0.3 1.1 0 3.1 0 3.4 4.5 0.3 0.1 7.0 0.4 (s 2980 July 0.3 1.3 0 3.6 0.4 4.5 0.3 0.1 7.0 0.4 (s 2980 July 0.3 1.3 0 3.5 0.4 0.5 8.0 0.5 5.5 0.2 0.5 8.0 0.4 (s 2980 July 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (s 2980 July 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (s 2980 July 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (s 2980 July 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (s 2980 July 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (s 2980 July 0.3 1.3 0 4.0 4.7 0 61.2 2.9 2.2 82.8 4.2 0.1 1981 January 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (s 2980 July 0.3 1.3 0 4.0 4.4 8.0 0.2 0.1 7.8 0.3 (s 2980 July 0.3 1.3 0 4.0 4.4 1.4 7.7 0.2 0.1 8.5 0.4 (s 2980 July 0.3 1.3 0 4.0 4.4 1.4 8.8 0.3 0.1 7.6 8.3 0.4 (s 2980 July 0.3 1.3 0 4.0 8.8 4.3 0.3 0.1 7.8 0.3 0.4 (s 2980 July 0.3 1.3 0 4.0 8.8 4.3 0.3 0.3 0.1 6.7 0.4 (s 2980 July 0.3 1.3 0 4.0 8.8 4.4 1.0 8.8 0.3 0.1 7.8 0.3 0.4 (s 2980 July 0.3 1.3 0 4.0 4.1 1.2 11.0 0.3 0.4 6.1 0.3 (s 2980 July 0.3 1.3 0 4.0 4.1 1.4 7.7 0.2 0.1							Billion gro	ss kilowat	t-hours				
1975 TOTAL	1973	TOTAL	0	0	0	18.3	0	11.6	1.9	3.1	9.4	1.1	0.5
1976 TOTAL 2.6 10.0 0 18.0 0 15.8 3.2 3.8 36.8 3.9 0.0	1974	TOTAL	1.0	0.1	0	15.4	0	14.7	2.5	3.4	18.1	3.3	0.6
1977 TOTAL 1.6 11.9 0 26.8 2.7 17.9 2.8 3.4 28.1 3.7 0.1 1978 TOTAL 2.9 12.5 0 32.9 3.3 30.5 2.3 4.4 53.2 4.1 0.3 1979 TOTAL 2.7 11.4 0 38.4 6.7 39.9 3.2 2.6 62.0 3.5 (s 1980 January 0.3 1.2 0 3.6 0.8 5.5 0.2 0.2 8.0 0.4 (c February 0.1 1.0 0 3.5 0.8 5.3 0.1 0.4 7.4 0.4 (c) March 0 1.0 0 3.7 0.8 5.1 0.2 0.5 8.0 0.4 April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (c) May 0.2 0.7 0 2.5 0.3 4.2 0.3 0.3 6.0 0.3 (c) June 0.2 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (c) July 0.2 1.3 0 3.6 0.4 4.8 0.2 0.1 6.7 0.3 (c) August 0.3 1.3 0 3.9 0.4 3.2 0.3 0.1 8.6 0.4 (s) September 0.3 1.1 0 3.1 0.4 4.5 0.3 0.1 7.0 0.4 (s) October 0.3 0.9 0 3.3 0.5 5.1 0.2 0 6.0 0.3 (s) December 0.3 1.1 0 3.4 0.6 5.8 0.3 0 5.4 0.3 (s) December 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (s) TOTAL 2.3 12.5 0 40.4 7.0 61.2 2.9 2.2 82.8 4.2 0.1 1981 January 0.3 1.3 0 3.6 0.7 8.8 0.3 0.3 0.1 7.8 0.4 (s) May 0.2 1.2 0 3.5 1.2 8.5 0.2 0 2 8.2 0.1 (s) March 0.3 0.6 0 3.9 1.4 8.8 0.3 0.1 7.1 (s) (s) March 0.3 0.6 0 3.9 1.4 8.8 0.3 0.1 7.1 (s) (s) March 0.3 0.6 0 3.9 1.4 8.8 0.3 0.1 7.1 (s) (s) March 0.3 0.6 0 3.9 1.4 8.8 0.3 0.1 7.1 (s) (s) March 0.3 0.6 0 3.9 1.4 8.8 0.3 0.1 7.1 (s) (s) May 0.2 1.2 0 3.5 1.5 8.3 0.3 0.6 7.9 0.4 (s) June 0.2 1.0 0 3.5 0.9 8.6 0.2 0.3 7.1 (s) (s) May 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.3 0.1 7.8 0.3 (d) May 0.2 1.2 0 3.6 0.7 8.3 0.3 0.6 7.9 0.4 (s) June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.3 0.1 6.7 0.4 (s) June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.3 0.1 6.7 0.4 (s) June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.3 0.1 6.7 0.4 (s) June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.3 0.1 6.7 0.4 (s) June 0.2 1.2 0 3.6 0.7 8.3 0.3 0.3 0.6 7.9 0.4 (s) August 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.3 0.1 6.7 0.4 (s) December 0.3 1.3 0 4.0 1.4 7.7 0.2 0.1 8.5 0.4 (s) August 0.2 1.2 0 3.4 1.0 0.8 8.4 0.3 0.3 0.3 8.3 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.3 0.6 7.9 0.4 (s) December 0.2 1.3 0.3 0.3 0.4 1.4 8.1 0.2 0.1 5.6 0.4 (s) December 0.2 1.3 0.3 0.4 1.1 1.2 11.0 0.3 0.4 6.1 0.3 (s) February 0.2 1.3 0 4.1 1.5 11.0 0.3 0.4 6.1 0.3 (s) February 0.2 1.3 0 4.1 1.5 11.0 0.2 0.7 7.7 0.1 (s	1975	TOTAL	2.5	6.8	0	13.2	0	18.3	2.5	3.8	22.2	3.3	0.5
1978 TOTAL 2.9 12.5 0 32.9 3.3 30.5 2.3 4.4 53.2 4.1 0.3 1979 TOTAL 2.7 11.4 0 38.4 6.7 39.9 3.2 2.6 62.0 3.5 (s 1980 January 0.3 1.2 0 3.6 0.8 5.5 0.2 0.2 8.0 0.4 (c February 0.1 1.0 0 3.5 0.8 5.3 0.1 0.4 7.4 0.4 (c April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (c April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (c April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (c April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (c April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (c April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (c April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (c April 0.2 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (c July 0.2 1.3 0 3.6 0.4 4.8 0.2 0.1 7.8 0.4 (s August 0.3 1.3 0 3.9 0.4 3.2 0.3 0.1 7.6 0.4 (s September 0.3 1.1 0 3.1 0 4.4 5.0 3.0 1.7 7.0 0.4 (s October 0.3 0.9 0 3.3 0.5 5.1 0.2 0 6.0 0.3 (c December 0.3 1.1 0 3.4 0.6 5.8 0.3 0 5.4 0.3 (c December 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (s TOTAL 2.3 12.5 0 40.4 7.0 61.2 2.9 2.2 82.8 4.2 0.3 1981 January 0.2 1.2 0 3.5 0.9 8.6 0.2 0.3 7.1 (s) (s February 0.2 1.0 0 3.5 0.9 8.6 0.2 0.3 7.1 (s) (s April 0.2 0.7 0 3.3 1.5 8.3 0.3 0.1 7.8 0.3 (c) April 0.2 0.7 0 3.3 1.5 8.3 0.3 0.1 7.8 0.3 (c) April 0.2 0.7 0 3.3 1.5 8.3 0.3 0.1 7.8 0.3 (c) April 0.2 0.7 0 3.3 1.5 8.3 0.3 0.1 7.8 0.3 (c) April 0.2 0.7 0 3.3 1.5 8.5 0.2 0.1 6.7 0.4 (s) August 0.3 1.3 0 4.0 0.8 8.4 0.3 0.3 0.1 7.8 0.3 (c) April 0.2 0.7 0 3.3 1.5 8.5 0.2 0.1 6.7 0.4 (s) July 0.3 1.3 0 4.0 0.8 8.4 0.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (s) August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.3 0.4 6.1 0.3 (s) February 0.2 1.3 0 3.1 1	1976	TOTAL	2.6	10.0	0	18.0	0	15.8	3.2	3.8	36.8	3.9	0.5
1979 TOTAL 2.7 11.4 0 38.4 6.7 39.9 3.2 2.6 62.0 3.5 (s 1980 January 0.3 1.2 0 3.6 0.8 5.5 0.2 0.2 8.0 0.4 0.4 0.4 March 0 1.0 0 3.5 0.8 5.3 0.1 0.4 7.4 0.4 0.4 March 0 1.0 0 3.7 0.8 5.1 0.2 0.5 8.0 0.4 0.4 0.4 March 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 0.4 0.5 May 0.2 0.7 0 2.5 0.3 4.2 0.3 0.3 6.0 0.3 0.4 5.6 0.3 0.4 June 0.2 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 0.3 0.4 0.4 0.8 May 0.2 1.3 0 3.6 0.4 4.8 0.2 0.1 6.7 0.3 0.4 0.5 September 0.3 1.1 0 3.1 0 4.1 0.2 0.3 0.1 8.6 0.4 (s 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	1977	TOTAL	1.6	11.9	0	26.8	2.7	17.9	2.8	3.4	28.1	3.7	0.3
1980 January 0.3 1.2 0 3.6 0.8 5.5 0.2 0.2 8.0 0.4 (9 February 0.1 1.0 0 3.5 0.8 5.3 0.1 0.4 7.4 0.4 (9 March 0 1.0 0 3.7 0.8 5.1 0.2 0.5 8.0 0.4 (9 April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (9 May 0.2 0.7 0 2.5 0.3 4.2 0.3 0.3 6.0 0.3 (9 June 0.2 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (9 June 0.2 1.3 0 3.6 0.4 4.8 0.2 0.1 6.7 0.3 (9 June 0.3 1.3 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (9 June 0.3 1.3 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (9 June 0.3 1.3 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (9 June 0.3 1.3 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (9 June 0.3 1.3 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (9 June 0.3 1.3 0 3.1 0 4.1 0.2 0.3 0.1 7.0 0.4 (9 June 0.3 1.3 0 3.1 0 4.1 0.2 0.3 0.1 7.0 0.4 (9 June 0.3 1.1 0 3.1 0 4.4 4.5 0.3 0.1 7.0 0.4 (9 June 0.3 1.1 0 3.1 0 4 4.5 0.3 0.1 7.0 0.4 (9 June 0.3 1.1 0 3.4 0.6 5.8 0.3 0 5.1 0.2 0 6.0 0.3 (9 June 0.3 1.1 0 3.4 0.6 5.8 0.3 0 5.4 0.3 (9 June 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (9 June 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (9 June 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (9 June 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (9 June 0.3 1.2 0 3.5 0.9 8.6 0.2 0.3 7.1 (9) (9 June 0.2 1.0 0 3.5 0.9 8.6 0.2 0.3 7.1 (9) (9 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (9 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (9 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (9 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (9 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (9 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (9 June 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (9 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (9 June 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (9 June 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (9 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (9 June 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (9 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (9 June 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 0.4 (9 June 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (9 June 0.2 1.2 0 3.4 1.0 0.8 8.4 0.3 0.3 0.1 6.7 0.4 (9 June 0.2 1.2 0 3.4 1.0 0.8 8.4 0.3 0.3 0.1 6.7 0.4 (9 June 0.2 1.2 0 3.4 1.0 0.8 0.4 0.4 0.4 (9 June 0.2 1.2 0 3.4 1.4 8.1 0.2 0.1 6.4 0.4 (9 June 0.2 1.2 0 3.4 1.4 1.2 11.0 0.3 0.4 6.1 0.3 (9 Ju	1978	TOTAL	2.9	12.5	0	32.9	3.3	30.5	2.3	4.4	53.2	4.1	0.2
February 0.1 1.0 0 3.5 0.8 5.3 0.1 0.4 7.4 0.4 (March 0 1.0 0 3.7 0.8 5.1 0.2 0.5 8.0 0.4 (April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (May 0.2 0.7 0 2.5 0.3 4.2 0.3 0.3 6.0 0.3 (May 0.2 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (May 0.2 1.1 0 3.1 0 4.1 0.2 0.1 7.8 0.4 (S. August 0.3 1.3 0 3.6 0.4 4.8 0.2 0.1 7.8 0.4 (S. August 0.3 1.3 0 3.6 0.4 4.5 0.3 0.1 8.6 0.4 (S. September 0.3 1.1 0 3.1 0.4 4.5 0.3 0.1 8.6 0.4 (S. September 0.3 1.1 0 3.1 0.4 4.5 0.3 0.1 8.6 0.4 (S. September 0.3 1.1 0 3.1 0.4 4.5 0.3 0.1 7.0 0.4 (S. October 0.3 0.9 0 3.3 0.5 5.1 0.2 0 6.0 0.3 (S. November 0.3 1.1 0 3.4 0.6 5.8 0.3 0 5.4 0.3 (S. December 0.3 1.2 0 3.5 1.2 8.5 0.2 0 6.0 0.3 (S. TOTAL 2.3 12.5 0 40.4 7.0 61.2 2.9 2.2 82.8 4.2 0.1 (S. February 0.2 1.0 0 3.5 1.2 8.5 0.2 0 6.3 0.3 (S. April 0.2 0.7 0 3.3 1.5 8.3 0.3 0.6 7.9 0.4 (S. April 0.2 0.7 0 3.3 1.5 8.3 0.3 0.6 7.9 0.4 (S. April 0.2 0.7 0 3.3 1.3 0 4.0 8.8 0.3 0.1 7.8 0.3 (S. April 0.2 0.7 0 3.3 1.3 0 4.0 8.8 0.3 0.1 6.7 9 0.4 (S. August 0.3 0.3 0.6 0 3.9 1.4 8.8 0.3 0.1 7.8 0.3 (S. April 0.2 0.7 0 3.3 1.5 8.3 0.3 0.6 7.9 0.4 (S. August 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (S. August 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (S. August 0.2 1.2 0 3.6 0.7 8.3 0.3 0.1 6.7 9 0.4 (S. August 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (S. August 0.2 1.2 0 3.4 1.0 8.9 0.4 0.3 8.0 0.4 (S. August 0.2 1.2 0 4.0 1.4 7.7 0.2 0.1 8.5 0.4 (S. September 0.3 0.9 0 3.3 1.5 8.5 0.2 0.1 6.4 0.4 (S. September 0.3 0.9 0 3.3 1.5 8.5 0.2 0.1 5.6 0.4 (S. November 0.2 1.3 0 4.1 1.2 11.0 0.3 0.4 6.1 0.3 (S. September 0.2 1.3 0 4.1 1.2 11.0 0.3 0.4 6.1 0.3 (S. September 0.2 1.3 0 4.1 1.2 11.0 0.3 0.4 6.1 0.3 (S. September 0.2 1.3 0 4.1 1.2 11.0 0.3 0.4 6.1 1.3 0.4 (S. September 0.2 1.3 0 4.1 1.2 11.0 0.3 0.4 6.1 1.3 0.4 (S. September 0.2 1.3 0 4.1 1.2 11.0 0.3 0.4 6.1 1.3 0.4 (S. September 0.2 1.3 0 4.1 1.5 11.0 0.2 0.6 8.1 0.4 (S. September 0.2 1.3 0 4.1 1.5 11.0 0.2 0.6 8.1 0.4 (S. September 0.2 1.3 0 4.1 1.5 11.0 0.2 0.6 8.1 0.4 (S. September 0.2 1.3 0 4.1 1.5 11.0 0.2 0.6 8.1 0.4 (S. September 0.2 1.3 0 4.1 1.5 1	1979	TOTAL	2.7	11.4	0	38.4	6.7	39.9	3.2	2.6	62.0	3.5	· (s)
March 0 1.0 0 3.7 0.8 5.1 0.2 0.5 8.0 0.4 (0 April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 (0 May 0.2 0.7 0 2.5 0.3 4.2 0.3 0.3 6.0 0.3 (0 June 0.2 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 (0 August 0.3 1.3 0 3.9 0.4 4.8 0.2 0.1 7.0 0.4 (s September 0.3 1.1 0 3.1 0.4 4.5 0.3 0.1 7.0 0.4 (s December 0.3 1.1 0 3.4 0.6 5.8 0.3 0.1 7.0 0.4 (s December 0.3 1.2 0 3.5 1.2 8.5	1980				-								0
April 0.1 0.5 0 3.2 0.8 5.0 0.3 0.4 5.6 0.3 0.4 May 0.2 0.7 0 2.5 0.3 4.2 0.3 0.3 0.3 6.0 0.3 0.3 0.4 June 0.2 1.1 0 3.1 0 4.1 0.2 0.1 6.7 0.3 0.3 0.3 June 0.2 1.3 0 3.6 0.4 4.8 0.2 0.1 6.7 0.3 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.4 0.4 0.3 0.3 0.4 0.4 0.3 0.3 0.4 0.4 0.3 0.3 0.1 0.4 0.4 0.4 0.3 0.3 0.1 0.4 0.4 0.3 0.3 0.1 0.4 0.4 0.3 0.3 0.1 0.4 0.4 0.3 0.3 0.1 0.4 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.4 0.3 0.3 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3		•			_								0
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Totals may not equal sum of components due to independent rounding.

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.

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

Sources: • See the last page of this section.

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

		South Korea	Spain	Sweden	Switzer- land	Talwan	United Kingdom²	West Germany	Non- Communist World Excluding U.S.	United States	Total Non- Communist World
						Billion gr	oss kilowati	t-hours			
1973	TOTAL	0	6.5	2.1	6.2	0	28.0	11.9	100.7	88.0	188.7
1974	TOTAL	0	7.2	1.6	7.0	0	34.0	12.0	121.1	104.5	225.6
1975	TOTAL	0	7.5	12.0	7.7	0	30.5	21.7	152.7	181.8	334.5
1976	TOTAL	0	7.6	16.0	7.9	0	36.8	24.5	187.3	201.7	389.1
1977	TOTAL	0.1	6.5	19.9	8.1	0.1	38.1	35.8	207.8	263.3	471.0
1978	TOTAL	2.3	7.6	23.8	8.3	2.7	36.7	35.9	263.6	292.7	556.3
1979	TOTAL	3.2	6.7	21.0	11.8	6.3	38.5	42.2	300.1	270.6	570.7
1980	January	0.1	0.7	2.5	1.5	0.9	3.7	4.7	34.2	21.1	55.3
	February	(s)	0.3	2.4	1.2	0.7	3.4	4.2	31.3	21.0	52.2
	March	0.4	0.4	2.3	1.3	8.0	4.2	3.4	32.4	21.0	53.4
	April	0.4	0.4	1.9	1.4	0.7	2.7	3.6	27.3	19.8	47.1
	Мау	0.4	0.4	1.6	1.4	0.4	2.6	3.5	25.1	19.6	44.7
	June	0.1	0.3	1.6	0.6	0.5	2.8	2.9	24.7	19.4	44.1
	July	0.4	0.3	1.3	0.6	8.0	2.0	3.0	27.2	22.4	49.6
	August	0.3	0.4	1.3	0.7	0.8	2.6	2.7	27.2	25.7	52.9
	September	0.4	0.4	2.1	1.3	0.8	3.1	3.2	28.4	24.8	53.2
	October	0.4	0.4	2.7	1.4	0.8	2.7	3.1	28.2	25.7	53.9
	November	0.4	0.5	3.4	1.4	0.6	3.2	4.1	30.8	22.0	52.8
	December	0.3	0.7	3.6	1.5	0.5	4.2	5.3	37.5	23.1	60.7
	TOTAL	3.5	5.2	26.7	14.3	8.2	37.2	43.7	354.4	265.5	619.9
1981	January	0.3	0.8	3.5	1.5	8.0	3.8	5.0	39.7	25.7	65.4
	February	0	0.6	3.6	1.4	0.7	3.4	4.6	36.2	22.6	58.8
	March	0	0.7	3.7	1.5	0.8	4.2	4.9	39.1	23.1	62.2
	April	0	0.6	3.3	1.4	0.8	2.8	4.4	36.5	21.7	58.2
	May	0.2	8.0	2.8	1.4	0.8	2.5	4.3	36.6	20.9	57.4
	June	0.4	0.8	2.8	0.7	0.8	3.3	4.1	34.5	22.6	57.1
	July	0.4	1.1	1.4	0.6	0.8	2.5	5.2	36.1	24.8	61.0
	August	0.4	1.0	2.6	1.0	0.8	2.5	3.9	36.0	28.3	64.2
	September	0.3	0.6	3.0	1.3	8.0	3.1	3.3	33.9	25.7	59.6
	October	0.3	1.2	3.3	1.5	1.2	2.7	4.0	34.7	21.6	56.3
	November	0.3	0.6	3.6	1.4	1.0	3.1	4.3	36.0	24.0	60.1
	December	0.4	0.7	4.1	1.5	1.1	4.9	5.4	43.1	27.5	70.6
	TOTAL	2.9	9.4	37.7	15.2	10.7	38.9	53.4	442.4	288.5	730.9
1982	January	0.4	1.0	4.0	1.5	0.8	3.4	5.9	44.5	27.1	71.6
	February	0.4	0.9	3.3	1.3	1.0	3.5	5.4	40.0	21.3	61.3
	March	0.4	0.5	3.8	1.5	1.0	4.1	5.3	43.2	24.0	67.1
	April	0.2	0.4	3.8	1.4	0.8	3.3	5.3	42.5	22.8	65.3
	May	0	0.5	2.5	1.2	8.0	2.6	5.6	39.0	22.8	61.8
	June	(s)	0.7	1.9	0.6	1.0	3.3	4.2	35.6	25.3	60.9
	July	0.3	0.6	1.2	0.9	1.2	3.3	4.5	37.6	26.8	64.4
	August	0.4	0.7	2.0	1.0	1.2	3.7	4.5	37.7	26.4	64.1
	September	0.4	0.7	3.7	1.2	1.3	4.2	5.4	38.6	26.7	65.3
	October	0.4	1.0	4.2	1.5	1.4	3.7	5.2	R39.8	25.4	R65.3
	November	0.4	0.9	4.0	1.4	1.1	3.8	5.8	41.0	24.2	65.3

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

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

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

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

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

Sources: • See the last page of this section.

Notes and Sources for the International Section

Notes

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

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

Sources

Crude Oil Production: • 1973-1981 annual data: Energy Information Administration, 1981 International Energy Annual.
U.S. annual and monthly data: Energy Information Administration, Petroleum Supply Monthly.
• 1980-1982 monthly data (except U.S. and World): Central Intelligence Agency, "International Energy Statistical Review," and other industry sources.

1980-1982 monthly data for World: Sum of data for all countries using above sources.
 Petroleum Consumption: • Central Intelligence Agency, "International Energy Statistical Review" (except the United States).
 United States data: Energy Information Administration, Petroleum Supply Monthly.

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

Definitions

Anthracite

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

Bituminous Coal

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

Coke (Coal)

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

Crude Oil

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

Crude Oil Refinery Input

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

Crude Oil Stocks

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

Distillate Fuel Oil

A light fuel oil distilled off during the refining process. Included are products known as No. 1 and No. 2 heating oils, diesel fuels, and No. 4 fuel oil, which conform to either ASTM Specification D396 or D975. These products are used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel), and electric power generation.

Electricity Production

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

Ethane

A normally gaseous, colorless hydrocarbon $\{C_2H_6\}$ product at natural gas processing plants and refineries. It is used primarily as petrochemical feedstock for eventual production of chemicals and plastic materials.

Exports

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

Full-Serve Station

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

Imports

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

Landed Cost of Imported Crude Oil

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

Lease Condensate

A natural gas liquid recovered from gas-well gas in lease separators and field facilities. It consists primarily of pentanes and heavier hydrocarbons. Generally, it is blended with crude oil for refining.

Lignite

A brownish-black coal of low rank with high inherent moisture and volatile matter. It is also referred to as brown coal. It conforms to ASTM Specification D388 for lignite and is used almost exclusively for electric power generation.

Liquefied Petroleum Gases

Propane, propylene, butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas plant liquids. Formerly called "Liquefied Gases."

Line Miles of Seismic Exploration

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

Maximum Dependable Capacity, Net

Represents the dependable main-unit net capacity of domestic nuclear powerplant reactors and generally varies

throughout the year because the unit efficiency varies with seasonal cooling water temperature variations. Usually maximum dependable capacity is the highest net dependable output of the turbine generator during the most restrictive seasonal conditions (usually summer).

Motor Gasoline

See Motor Gasoline, Finished and Motor Gasoline, Total.

Motor Gasoline, Average Retail Selling Price

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

Motor Gasoline, Finished

Beginning in January 1981, "Motor Gasoline" was redefined as "Finished Motor Gasoline" which is a complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives that have been blended to form a fuel suitable for use in spark ignition engines. Included are premium and regular grade, both leaded and unleaded, gasohol, and all other refinery products listed in ASTM Specification D439. Excludes any blendstock until blending has been completed and the blendstock is incorporated in the finished gasoline and no longer separately identified. Also excludes any alcohol to be used in the blending of gasohol.

Motor Gasoline, Premium Grade

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

Motor Gasoline, Regular Grade

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

Motor Gasoline, Total

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

Natural Gas

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

Natural Gas Plant Liquids

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

Petroleum

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

Petroleum Coke

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

Petroleum Products

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

Propane

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

Refined Petroleum Product Supplied

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

Refiner Acquisition Cost

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

Residual Fuel Oil

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

electric power, space heating, vessel bunkering, and various industrial purposes.

Rotary Rig

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

Self-Serve Station

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

Startup Test Phase of Nuclear Powerplant

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

Stocks (Refined Petroleum Product)

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

those held by jobbers, dealers, independent marketers, and consumers, are excluded.

Strategic Petroleum Reserve

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

Synthetic Natural Gas (SNG)

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

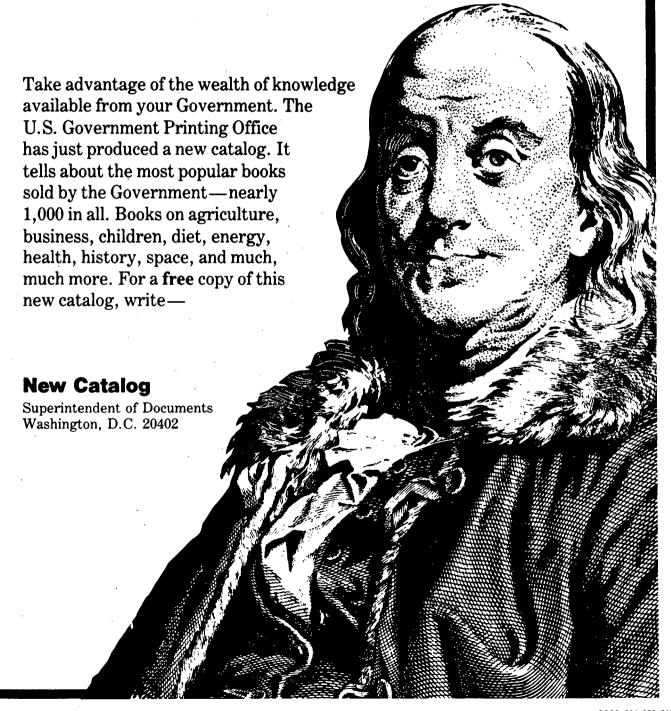
Unaccounted for Crude Oil

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

Wells, Exploratory and Development

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

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Conversion Factors

Approximate Heat Content of Various Fuels		1973	1974	1975	1976	1977	1978	1979	. 1980	1981-82‡
Anthracite							00 500	00.500	00.050	22.250
Production	Thousand Btu/short ton	23,170	22,560	23,390	22,770	23,180	23,520	23,590	23,350	23,350
Imports and exports	. Thousand Btu/short ton	25,400	25,400	25,400	25,400	25,400	25,400	25,400	25,400	25,400
Consumption, average		22,710	21,950	21,740	22,150	22,690	22,970	22,700	22,160	22,160
Electric utility consumption		17,920	17,200	17,060	17,530	17,240	17,100	17,450	17,650	17,650
Non-utility consumption		24,340	23,750	23,650	23,840	24,990	25,170	25,200	23,740	23,740
Bituminous coal and lignite										00.450
Production	Thousand Btu/short ton	24,010	23,730	23,200	23,150	22,700	22,430	22,590	23,150	23,150
Imports		25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
Exports		27,000	27,000	27,000	27,000	27,000	27,000	27,000	26,180	26,180
Consumption, average		23,650	23,070	22,800	22,750	22,330	22,140	22,200	22,000	22,000
Electric utility consumption		22,260	21,800	21,660	21,690	21,480	21,280	21,380	21,300	21,300
Non-utility consumption		26,840	26,120	25,810	25,870	25,130	25,070	25,060	25,060	25,060
Coal coke		26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000
Crude petroleum ¹										
Production	Thousand Btu/barrel	5,800	5,800	5,800	5,800	5,800	5,800	5,800	5,800	5,800
Imports		5,817	5,827	5,821	5,808	5,810	5,802	5,810	5,812	5,812
Exports	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5,800	5,800	5,800	5,800	5,800	5,800	5,800	5,800	5,800
Crude petroleum and products	1110000110 510 50110									
Imports, average	Thousand Btu/barrel	5.897	5.884	5.858	5,856	5,834	5,839	5,810	5,796	5,796
Exports, average		5,752	5.774	5.748	5,745	5,797	5,808	5,832	5,820	5,820
Petroleum products	, , , , , , , , , , , , , , , , , ,	-,	-•	•	•					
Consumption, average	Thousand Btu/barrel	5,515	5.504	5,494	5,504	5,518	5,519	5,494	5,479	5,479
Residential and Commercial		5,381	5,371	5,354	5,383	5,384	5,386	5,281	5,270	5,230
Industrial		5,559	5,531	5,522	5,534	5,546	5,553	5,485	5,443	5,512
Transportation		5,398	5,396	5,395	5,400	5,404	5,412	5,429	5,441	5,429
Electric Utility		6,223	6.215	6,229	6,235	6,231	6,227	6,243	6,249	6,244
Imports		5,983	5.959	5,935	5,980	5,908	5,955	5,811	5,748	5,748
Exports		5,752	5,773	5,747	5,743	5,796	5,814	5,864	5,841	5,841
LPG consumption average ²		3,746	3,730	3,715	3,711	3,677	3,669	3,680	3,674	3,674
Natural gas plant liquid	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-•	-							
production	Thousand Btu/barrel	4.049	4.011	3,984	3,964	3,941	3,925	3,955	3,914	3,914
Natural gas, dry	////	.,.								
Production and consumption	Btu/cubic foot	1.021	1.024	1,021	1,020	1,021	1,019	1,021	1,026	1,026
Electric utility consumption		1,024	1,022	1,026	1,023	1,029	1,034	1,034	1,034	1,034
Non-utility consumption		1,020	1,024	1.020	1,019	1,019	1,016	1,018	1,024	1,024
Imports		1,026	1.027	1,026	1,025	1,026	1,030	1,037	1,022	1,022
Exports		1,023	1,016	1,014	1,013	1,013	1,013	1,013	1,013	1,013
Natural gas, wet	Dia Gabie 1001	.,	.,		•	· ·				
production	Btu/cubic foot	1,093	1,097	1,095	1.093	1.093	1,088	1,092	1,099	1,099
Hydropower ³		10,389	10,442	10,406	10,373	10,435	10,361	10,353	10,353	10,353
Nuclear power ^a		10,903	11,161	11,013	11,047	10,769	10,941	10,640	10,640	10,640
Geothermal power ^a		21,674	21,674	21,611	21,611	21,611	21,611	21,553	21,629	21,629
Electricity consumption		3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412
Electricity consumption	Diar NTTII	0,-12	٠, ٠.٠	٠, ـ	-,	-,	-,		•	

Approximate	Heat	Content	οf	Refined

Approximate Heat Content of Hefined Petroleum Products	Thousand Btu/barrel
Asphalt	6,636
Aviation Gasoline	5,048
Butane	4,326
Butane-propane mixture*	4,130
Distillate fuel oil	5,825
Ethane	3,082
Ethane-propane mixtures	3,308
Isobutane	3,974
Jet fuel-kerosene type	5,670
Jet fuelnaphtha type	5,355
Kerosene	5,670
Lubricants	6,065
Motor gasoline	5,253
Natural gasoline	4,620
Petrochemical feedstocks	
Naphtha 400°	5,248
Other Oils over 400°	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

Units of Measure

Weight

1 metric ton	contains	1,000 kilograms or 2,204.62 pounds
1 long ton	contains	2.240 pounds
1 short ton	contains	2,000 pounds

Conversion Factors for Crude Oil (Average Gravity)

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

Conversion Factors for Uranium

1 short ton (U₃O₅)	contains	0.769 metric tons of uranium
1 short ton (UF₅)	contains	0.613 metric tons of uranium
1 metric ton (UF₅)	contains	0.676 metric tons of uranium

¹ Includes lease condensate.

^{*} LPG consumption average is the annual weighted average of the LPG product supplied components: ethane, ethylene, propane, propylene, butane, butylene, butane-propane mixture, ethane-propane mixture, and isobutane.

mixture, and isobutane.

There is no generally accepted practice for measuring hydropower thermal conversion rates. The hydropower factors on this page are the prevailing rate factors at fossil fuel steam electric powerplants. By using the heat rate factor, it is possible to evaluate fossil fuel requirements for replacing hydropower production during periods of drought. Furthermore, it allows for better comparisons with certain other countries such as Norway where hydropower is the principal means for producing electricity. Similarly, the nuclear power and geothermal power conversion factors represent the thermal conversion equivalent of the uranium and geothermal steam consumed at powerplants. The heat content of a kilowath-hour of electricity produced, regardless of the generation process, is 3,412 Bitu per kilowatt-hour, it is not possible to determine the hydroelectric powerplants in the United States is 86 percent while average generation efficiency is 97 percent and average turbine efficiency is 98 percent while average generation efficiency is 97 percent and average turbine efficiency is 98

percent.
4 60 percent butane and 40 percent propane.

 ⁷⁰ percent ethane and 30 percent propane.
 ‡ Preliminary data.

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