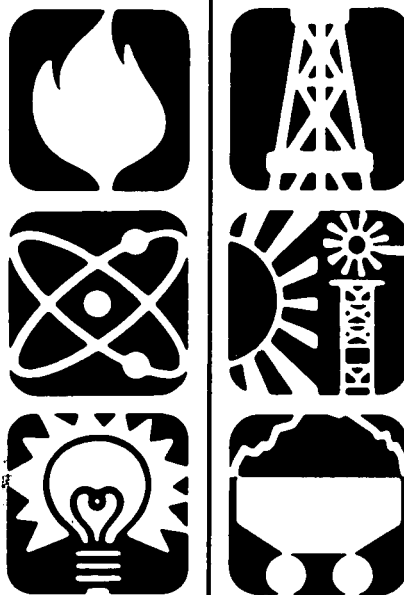


DOE/EIA-0035(85/04)

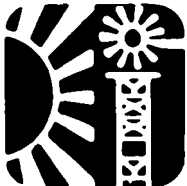
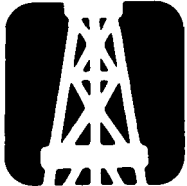
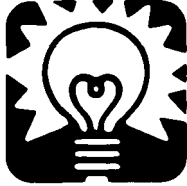
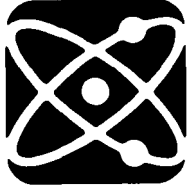
# Monthly Energy Review

Energy Information Administration  
Washington, D.C.

April 1985



Published:  
July 1985



## **Monthly Energy Review**

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

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

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

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

### **Subscriptions**

This publication is available on an annual subscription basis from the Superintendent of Documents, U.S. Government Printing Office (GPO). Prices and ordering information for this and other Energy Information Administration (EIA) publications may be obtained from the GPO or the EIA's National Energy Information Center. Addresses and telephone numbers appear below. An order form is included in the back of this publication for your convenience.

National Energy Information Center, EI-20  
**Energy Information Administration**  
Room 1F-048, Forrestal Building  
Washington, D.C. 20585  
(202) 252-8800

Superintendent of Documents  
U.S. Government Printing Office  
Washington, D.C. 20402  
(202) 783-3238

### **Information**

Questions on energy statistics may be directed to the National Energy Information Center at the address and phone number shown above.

Released for printing: July 26, 1985

# Monthly Energy Review

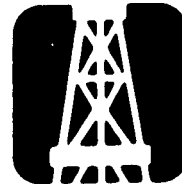
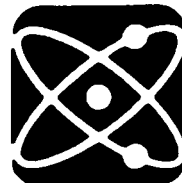
April 1985

Published:  
July 1985

This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or necessarily reflecting any policy position of the Department of Energy or any other organization.

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

DOE/EIA-0035(85/04)  
Distribution Category UC-98





## Contacts

The *Monthly Energy Review* is prepared in the Statistics Branch of the Office of Energy Markets and End Use, Energy Information Administration, under the direction of Katherine E. Seiferlein (202) 252-5692.

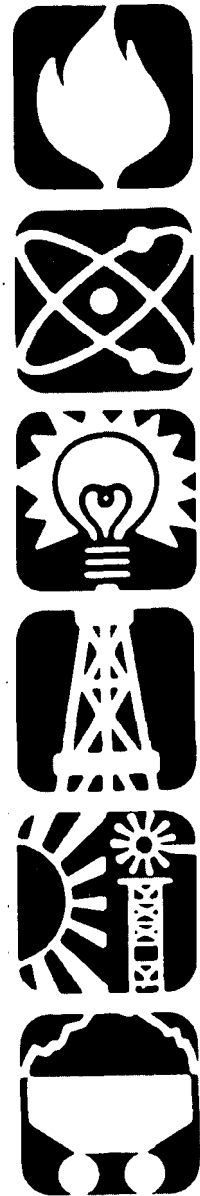
Questions and comments concerning the contents of the *Monthly Energy Review* may be referred to Julia F. Hutchins (202) 252-5138 or the following subject specialists:

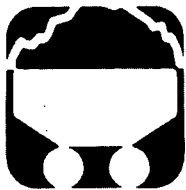
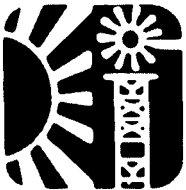
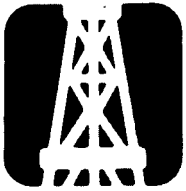
<b>Special Features</b> .....	Barbara T. Fichman (202) 252-5737
<b>Part 1. Energy Summary</b> .....	Roberta Searles (202) 252-5736
<b>Part 2. Consumption</b> .....	Roberta Searles (202) 252-5736
<b>Part 3. Petroleum</b> .....	Christine D. Gray (202) 252-8995
<b>Part 4. Natural Gas</b> .....	Gordon W. Koelling (202) 252-6305
<b>Part 5. Oil and Gas Resource Development</b> .....	Lawrence R. Mangen (202) 252-4804
<b>Part 6. Coal</b> .....	Judith L. Wood (202) 252-5228
<b>Part 7. Electric Utilities</b> Generation, Consumption, and Stocks.....	Vicki Moorhead (202) 252-6521
Sales.....	Charlene Harris-Russell (202) 252-2028
<b>Part 8. Nuclear</b> .....	Thomas S. Murphy (202) 252-9866
<b>Part 9. Price</b> Petroleum Heating Oil.....	Annie P. Whatley (202) 252-6612
All Other Petroleum.....	Bruce H. Bawks (202) 252-9795
Natural Gas Electric Utilities.....	Kenneth M. McClevey (202) 252-5310
All Other Natural Gas.....	Gordon W. Koelling (202) 252-6305
Electricity Fuel Costs to Steam Plants.....	Kenneth M. McClevey (202) 252-5310
Prices for Privately Owned Utilities.....	Charlene Harris-Russell (202) 252-2028
<b>Part 10. International</b> Petroleum.....	Patricia A. Smith (202) 252-6925
Nuclear Electricity Generation.....	Thomas S. Murphy (202) 252-9866

Additional information on all energy statistics available from the Energy Information Administration may be obtained from the National Energy Information Center (202) 252-8800.

# Contents

	Page
<b>Highlights: State Energy Data Report, Consumption Estimates, 1960-1983</b> .....	i
<b>Part 1. Energy Summary</b> .....	1
Overview.....	2
Production of Energy by Source.....	4
Consumption of Energy by Source.....	6
Net Imports of Energy by Source.....	8
Merchandise Trade Value.....	10
Cooling Degree-Days.....	12
Energy Indicators.....	14
<b>Part 2. Consumption</b> .....	19
Consumption of Energy by End-Use Sector.....	20
Consumption of Energy by the Residential and Commercial Sector.....	22
Consumption of Energy by the Industrial Sector.....	24
Consumption of Energy by the Transportation Sector.....	26
Energy Input at Electric Utilities.....	28
<b>Part 3. Petroleum</b> .....	35
Crude Oil and Petroleum Products Overview.....	36
Crude Oil Supply and Disposition.....	40
Crude Oil and Petroleum Product Imports.....	42
Finished Motor Gasoline Supply and Disposition.....	44
Distillate Fuel Oil Supply and Disposition.....	46
Residual Fuel Oil Supply and Disposition.....	48
Liquefied Petroleum Gases Supply and Disposition.....	50
Other Petroleum Products Supply and Disposition.....	52
<b>Part 4. Natural Gas</b> .....	55
Production Summary, Supply and Disposition.....	56
Natural Gas Consumption.....	58
Underground Natural Gas Storage.....	59
<b>Part 5. Oil and Gas Resource Development</b> .....	63
Seismic Crews and Rotary Rigs.....	64
Exploratory and Development Wells and Footage Drilled.....	65
<b>Part 6. Coal</b> .....	69
Overview.....	70
Consumption and Stocks by End-Use Sector.....	72
<b>Part 7. Electric Utilities</b> .....	75
Electricity Generation and Sales.....	76
Primary Energy Consumed to Produce Electricity.....	78
Coal and Petroleum Stocks.....	80
Petroleum Consumption and Stocks by Prime Mover Type.....	82
<b>Part 8. Nuclear</b> .....	83
Nuclear Power Plant Operations.....	84
Status of Nuclear Reactor Units.....	86
<b>Part 9. Price</b> .....	89
Crude Oil Price Summary.....	90
Crude Oil Imports.....	92
U.S. City Average Retail Motor Gasoline.....	94
Residual Fuel Oil.....	95
Additional Petroleum Products.....	96
No. 2 Distillate to Residences by State.....	98
Natural Gas.....	100
Electricity.....	101
<b>Part 10. International</b> .....	105
Crude Oil Production.....	106
Petroleum Consumption.....	108
Petroleum Stocks.....	110
Nuclear Electricity Generation.....	112
<b>Conversion Factors</b> .....	115
<b>Glossary</b> .....	123





## Articles

Feature articles on energy-related subjects are occasionally included in this publication. The following articles have appeared in issues since the beginning of 1981. A list of the articles included prior to 1981 may be found in any issue published from 1981 through 1983.

Changes in 1981 Petroleum Data Series .....	May	1981
Information Services of the Energy Information 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
Impacts of Financial Constraints on the Electric Utility Industry.....	October	1982
The Effect of Weather on Energy Use .....	April	1983
Trends in U.S. Energy Since 1973 .....	May	1983
Data Series on Petroleum Use at Electric Utilities .....	July	1983
Residential Energy Consumption, 1978 Through 1981 .....	September	1983
Exploring for Oil and Gas.....	November	1983
The Influence of Federal Actions on Petroleum Exploration .....	December[2]	1983
Aggregate Statistics: Accurate or Misleading? .....	December[3]	1983
Estimating Well Completions .....	March	1985

## Highlights

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

<i>U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1981 Annual Report .....</i>	September	1982
<i>Energy Company Development Patterns in the Postembargo Era, Volume One.....</i>	November	1982
<i>Residential Energy Consumption Survey: Consumption and Expenditures.....</i>	January	1983
<i>Residential Energy Consumption Survey: Housing Characteristics.....</i>	February	1983
<i>Energy Price and Expenditure Data Report, 1970-1980.....</i>	July	1983
<i>Railroad Deregulation: Impact on Coal.....</i>	August	1983
<i>Port Deepening and User Fees: Impact on U.S. Coal Exports.....</i>	August	1983
<i>U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1982 Annual Report .....</i>	September	1983
<i>Annual Energy Review 1983.....</i>	February	1984
<i>State Energy Data Report, Consumption Estimates, 1960-1982.....</i>	March	1984
<i>Annual Energy Outlook 1983.....</i>	March	1984
<i>State Energy Price and Expenditure Report, 1970-1981.....</i>	May	1984
<i>Solar Collector Manufacturing Activity 1983.....</i>	June	1984
<i>Estimates of U.S. Wood Energy Consumption, 1980-1983.....</i>	September	1984
<i>International Energy Annual 1983.....</i>	September	1984
<i>Energy Conservation Indicators 1983 Annual Report.....</i>	November	1984
<i>Annual Energy Outlook 1984.....</i>	December	1984
<i>Annual Energy Review 1984.....</i>	January	1985
<i>Performance Profiles of Major Energy Producers 1983.....</i>	February	1985
<i>State Energy Price and Expenditure Report 1970-1982.....</i>	March	1985

# Highlights of the

## State Energy Data Report, Consumption Estimates, 1960-1983

### Introduction

Energy consumption in each State varies over time in response to changes in factors such as energy prices and levels of economic activity. Differences among States<sup>1</sup> arise from differences in such factors as population, climate, and the amount and type of industry. The *State Energy Data Report* presents estimates of annual energy consumption for each State for 1960 through 1983. Readers familiar with the consumption data series in Part 2 of the *Monthly Energy Review* will find that the State estimates are presented in greater detail. For example, State estimates are disaggregated by type of petroleum product consumed.

### Per Capita Consumption

Prior to the 1973-1974 oil embargo, U.S. per capita energy consumption rose at an average annual rate of 2.9 percent (Table 1). After 1973, per capita energy use fluctuated until 1979, then declined to 301 million Btu in 1983. Most States followed a similar pattern. For the 14-year period preceding the embargo, every State recorded a positive growth rate in energy use per capita. In the post-embargo period, all but four States (Alaska, Oklahoma, and North and South Dakota) recorded a negative growth rate.

<sup>1</sup>"States" includes the District of Columbia.

### State Data

The *State Energy Data Report* includes both collected and estimated State-level consumption data. EIA collects data for natural gas consumption and for energy consumed at electric utilities, and those data are used directly, with only minor adjustments for end-use sector consistency. Where EIA does not collect State consumption data, especially for the numerous petroleum products, the report uses collected data on State sales or deliveries and adjusts the data to equal collected national-level data on product supplied.

**Table 1. Per Capita Energy Consumption Growth Rates, Pre- and Post-Embargo**

State	Growth Rates (Percent)		1983 Use (Million Btu)
	1960-73	1973-83	
Alaska	6.2	4.1	875
Wyoming	5.1	-0.7	728
Louisiana	4.7	-0.8	723
Texas	3.0	-2.2	510
Indiana	2.9	-1.5	399
Oklahoma	3.7	0.6	395
Kansas	3.2	-1.1	379
Montana	2.7	-2.3	364
Washington	3.3	-1.2	357
North Dakota	1.9	0.5	351
West Virginia	2.9	-2.9	341
Idaho	3.5	-2.5	339
Tennessee	3.0	-1.1	339
Alabama	3.9	-2.1	336
Kentucky	2.5	-0.7	334
New Mexico	1.8	-2.7	328
Ohio	1.9	-1.7	328
Nevada	2.3	-2.3	327
Iowa	3.4	-0.6	327
Arkansas	4.7	-1.8	325
Nebraska	3.6	-0.9	320
Mississippi	6.0	-1.3	307
Delaware	2.2	-2.7	307
Maine	4.1	-1.8	303
Oregon	3.2	-1.9	302
<b>United States</b>	<b>2.9</b>	<b>-1.5</b>	<b>301</b>
Utah	1.5	-2.8	300
South Carolina	3.8	-0.6	297
Illinois	2.8	-1.9	292
Georgia	5.0	-0.6	291
Minnesota	3.4	-1.3	289
South Dakota	2.6	0.1	283
Missouri	3.0	-0.7	280
New Jersey	2.3	-0.3	279
Pennsylvania	2.0	-2.7	274
Colorado	2.4	-2.0	269
Wisconsin	2.6	-1.1	268
Virginia	2.8	-0.8	267
North Carolina	4.1	-0.8	264
District of Columbia	4.2	-0.4	263
Michigan	2.8	-2.6	258
Maryland	2.2	-1.6	256
Arizona	3.1	-2.3	254
California	2.3	-1.9	229
Florida	3.5	-1.1	226
Hawaii	4.4	-1.8	226
Connecticut	1.6	-1.5	216
Massachusetts	2.5	-2.9	208
Vermont	3.9	-2.5	204
New Hampshire	3.5	-3.2	194
New York	2.5	-2.7	188
Rhode Island	0.7	-2.8	185

Note: Growth rates are average annual growth rates from 1960 through 1973 and from 1973 through 1983.

Source: EIA, *State Energy Data Report, Consumption Estimates, 1960-1983* (May 1985).

Alaska's per capita use of energy in 1983 was the highest of any State. Alaska recorded the highest growth rates both before and after the embargo. In contrast, the pre-embargo average annual increase in Rhode Island was only 0.7 percent. After the embargo, Rhode Island's decline in energy consumption was one of the greatest, and energy use fell at an average annual rate of 2.8 percent.

### Consumption by Source

Not surprisingly, the most populous States generally consumed the most energy. In 1983, five of the six States with the highest populations were also the top five energy consumers. Of these, all but Ohio consumed more petroleum than any other fuel (Figure 1). In Texas, petroleum accounted for 45 percent of all energy consumed, and natural gas and coal accounted for virtually all of the remainder. In contrast, California consumed very little coal, and relied on nuclear and hydroelectric power and geothermal energy for 24 percent of total State energy consumption.

### Consumption by Sector

Industrial use of energy in Texas was over three times that of California (Figure 2). In Ohio and Illinois,

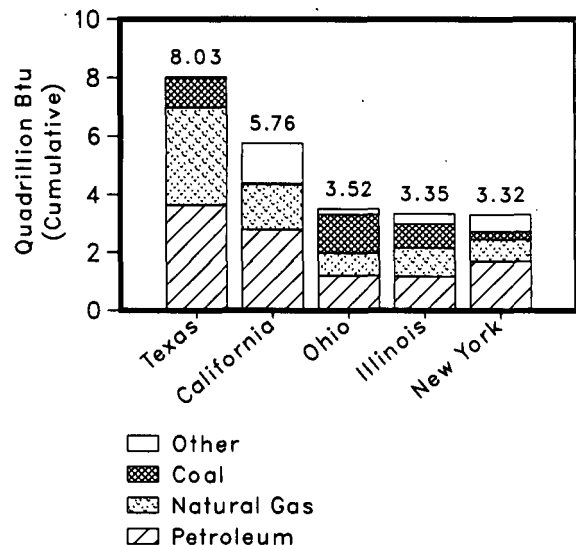
industrial sector use of energy accounted for a larger share than any other sector. Transportation use of energy was closely correlated with highway travel.<sup>2</sup> California, ranked first in terms of highway travel, was the only State among the top five energy consumers where the transportation sector consumed more energy than any other sector. In four of the top five States, commercial sector consumption was lower than any other sector. New York was the only State in which residential energy use accounted for the largest amount of the State total.

### The Report

The *State Energy Data Report, Consumption Estimates, 1960-1983* was published in May 1985 by EIA. The 688-page report includes documentation that describes all data sources and how consumption estimates were made. A public use computer tape of the State estimates and the data used to calculate them can be obtained from the National Technical Information Center, U.S. Department of Commerce (order number PB 85-218642) for \$140.00. The report itself may be obtained by using the order form in the back of this publication.

<sup>2</sup>State rankings by vehicle-miles of highway travel were obtained from a pre-publication copy of EIA's *State Energy Overview*, DOE/EIA-0354(83).

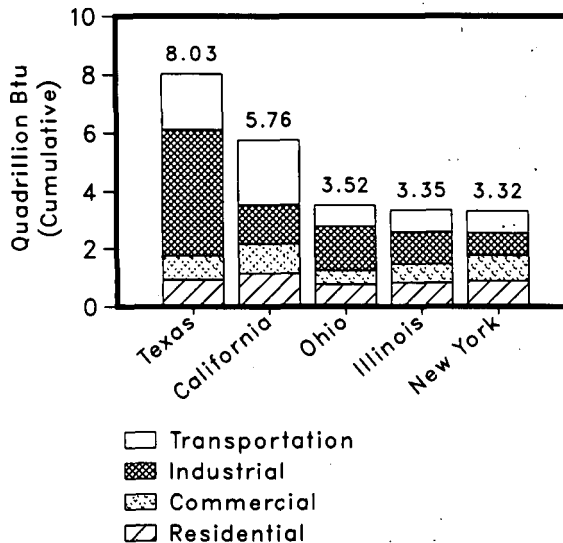
**Figure 1. Consumption of Energy by Source in Top Five States,\* 1983**



\*States that consumed the most energy in 1983.

Source: EIA, *State Energy Data Report, Consumption Estimates, 1960-1983* (May 1985).

**Figure 2. Consumption of Energy by Sector in Top Five States,\* 1983**



\*States that consumed the most energy in 1983.

Source: EIA, *State Energy Data Report, Consumption Estimates, 1960-1983* (May 1985).



## Energy Summary

### Production

Energy production during April 1985 totaled 5.4 quadrillion Btu, a 0.3-percent increase compared with the level of production during April 1984. Coal production was up 4.5 percent. Natural gas production decreased 1.0 percent and petroleum production was down 0.3 percent compared with production in the previous April. Production of all other forms of energy combined decreased 5.6 percent compared with production 1 year earlier.

### Consumption

Energy consumption during April 1985 totaled 5.8 quadrillion Btu, 1.2 percent below the

level of consumption during April 1984. Natural gas consumption decreased 5.3 percent and petroleum consumption was down 1.4 percent. Coal consumption increased 5.7 percent. Consumption of all other forms of energy combined decreased 4.8 percent compared with consumption during April 1984.

### Net Imports

Net imports of energy during April 1985 totaled 0.7 quadrillion Btu, 2.0 percent below the level of net imports during April 1984. Net imports of petroleum decreased 4.9 percent, while net imports of natural gas increased 6.1 percent. Net exports of coal were down 9.0 percent compared with the level in April 1984.

## Energy Summary (Quadrillion (10<sup>15</sup>) Btu)

	April			Cumulative January through April				
	1985	1984	Percent Change <sup>1</sup>	1985	1985 Daily Rate	1984	1984 Daily Rate	Percent Change <sup>1</sup>
<b>Total Production</b>	<b>5.409</b>	<b>5.390</b>	<b>+0.3</b>	<b>21.832</b>	<b>0.182</b>	<b>22.097</b>	<b>0.183</b>	<b>-0.4</b>
Petroleum <sup>2</sup>	1.729	1.734	-0.3	6.969	0.058	6.958	0.058	+1.0
Natural Gas (Dry)	1.455	1.469	-1.0	5.968	0.050	6.102	0.050	-1.4
Coal	1.664	1.592	+4.5	6.389	0.053	6.547	0.054	-1.6
Other <sup>3</sup>	0.561	0.595	-5.6	2.505	0.021	2.490	0.021	+1.5
<b>Total Consumption</b>	<b>5.835</b>	<b>5.906</b>	<b>-1.2</b>	<b>25.968</b>	<b>0.216</b>	<b>26.078</b>	<b>0.216</b>	<b>+0.4</b>
Petroleum <sup>4</sup>	2.490	2.526	-1.4	10.185	0.085	10.456	0.086	-1.8
Natural Gas <sup>5</sup>	1.398	1.476	-5.3	7.325	0.061	7.390	0.061	-0.1
Coal	1.353	1.279	+5.7	5.818	0.048	5.618	0.046	+4.4
Other <sup>6</sup>	0.595	0.624	-4.8	2.640	0.022	2.613	0.022	+1.9
<b>Net Imports</b>	<b>0.698</b>	<b>0.712</b>	<b>-2.0</b>	<b>2.441</b>	<b>0.020</b>	<b>3.145</b>	<b>0.026</b>	<b>-21.7</b>
Petroleum <sup>7</sup>	0.774	0.814	-4.9	2.614	0.022	3.322	0.027	-20.7
Natural Gas	0.072	0.068	+6.1	0.357	0.003	0.292	0.002	+23.1
Coal <sup>8</sup>	(0.182)	(0.200)	(-9.0)	(0.664)	(0.006)	(0.593)	(0.005)	(+12.9)
Other <sup>9</sup>	0.033	0.030	+12.1	0.135	0.001	0.124	0.001	+9.9

<sup>1</sup> Based on daily rates prior to rounding.

<sup>2</sup> Includes crude oil, lease condensate, and natural gas plant liquids.

<sup>3</sup> Other is hydroelectric and nuclear electric power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

<sup>4</sup> Includes refined petroleum products and natural gas plant liquids.

<sup>5</sup> Includes supplemental gaseous fuels.

<sup>6</sup> Other is hydroelectric and nuclear electric power; electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems; and net imports of electricity and coal coke.

<sup>7</sup> Includes crude oil, lease condensate, refined petroleum products, unfinished oils, natural gasoline, plant condensate, and imports of crude oil for the Strategic Petroleum Reserve.

<sup>8</sup> Parentheses indicate exports are greater than imports.

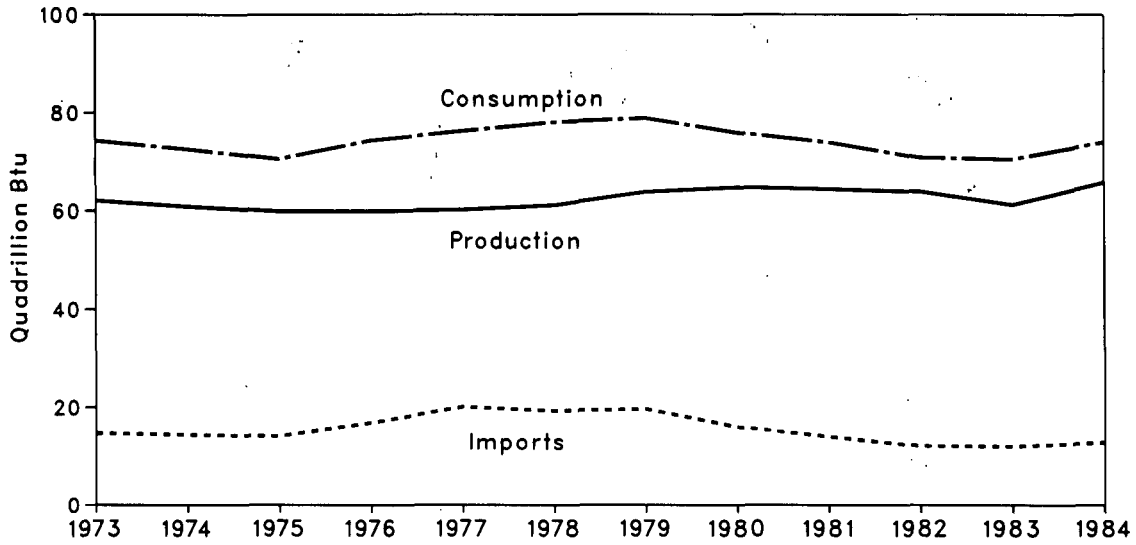
<sup>9</sup> Other is net imports of electricity and coal coke.

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

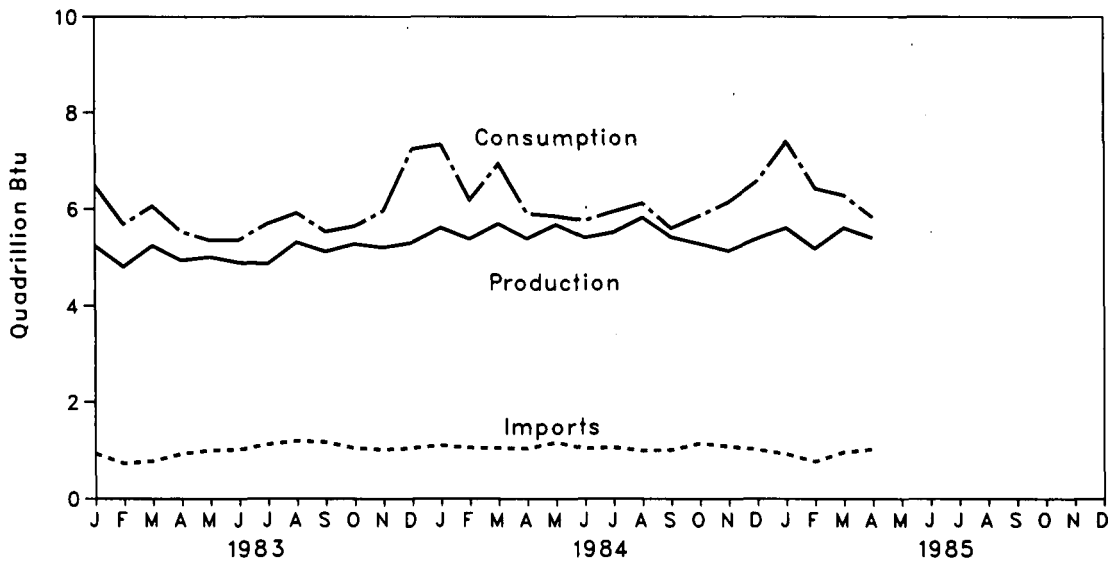
# Energy Summary

## Overview

### Yearly



### Monthly



# Energy Summary

## Overview<sup>1</sup>

		Production <sup>2</sup>	Consumption <sup>2</sup>	Imports <sup>2</sup>	Exports	Net Imports
Quadrillion (10 <sup>15</sup> ) Btu						
1973	Total	62.067	74.288	14.730	2.051	12.680
1974	Total	60.841	72.548	14.412	2.223	12.190
1975	Total	59.865	70.551	14.111	2.359	11.752
1976	Total	59.896	74.366	16.837	2.189	14.648
1977	Total	60.222	76.292	20.090	2.072	18.018
1978	Total	61.106	78.091	19.254	1.931	17.323
1979	Total	63.810	78.900	19.616	2.871	16.745
1980	Total	64.764	75.955	15.971	3.724	12.247
1981	Total	64.424	73.989	13.974	4.329	9.644
1982	Total	63.892	70.842	12.093	4.636	7.457
1983	January	5.237	6.483	0.942	0.301	0.641
	February	4.803	5.685	0.732	0.264	0.468
	March	5.233	6.058	0.783	0.319	0.464
	April	4.933	5.533	0.931	0.314	0.617
	May	5.006	5.355	1.005	0.348	0.657
	June	4.889	5.364	1.018	0.334	0.684
	July	4.866	5.700	1.124	0.273	0.851
	August	5.312	5.922	1.199	0.348	0.852
	September	5.120	5.538	1.172	0.323	0.849
	October	5.280	5.648	1.051	0.325	0.726
	November	5.208	5.966	1.019	0.280	0.739
	December	5.308	7.246	1.047	0.290	0.758
	<b>Total</b>	<b>61.196</b>	<b>70.497</b>	<b>12.024</b>	<b>3.719</b>	<b>8.306</b>
1984	January	R5.619	R7.341	R1.105	R0.247	R0.858
	February	R5.388	R6.194	R1.059	R0.220	R0.839
	March	R5.700	R6.637	R1.053	R0.316	R0.737
	April	R5.390	R5.906	R1.039	0.328	R0.712
	May	R5.679	R5.858	R1.167	R0.366	R0.801
	June	R5.414	R5.768	R1.043	R0.367	R0.675
	July	R5.524	R5.955	R1.067	0.328	R0.739
	August	R5.832	R6.129	R1.001	0.361	R0.640
	September	R5.428	R5.611	R1.013	0.357	R0.657
	October	R5.289	R5.873	R1.148	R0.297	0.851
	November	R5.142	R6.153	R1.092	R0.272	R0.820
	December	R5.400	R6.590	R1.021	R0.363	R0.659
	<b>Total</b>	<b>R65.806</b>	<b>R74.016</b>	<b>R12.809</b>	<b>R3.822</b>	<b>R8.987</b>
1985	January	R5.618	R7.402	0.929	0.307	0.622
	February	R5.187	R6.437	R0.772	0.307	R0.465
	March	R5.619	R6.294	0.968	0.311	0.657
	April	5.409	5.835	1.029	0.332	0.698
	<b>Year to Date</b>	<b>21.832</b>	<b>25.968</b>	<b>3.699</b>	<b>1.257</b>	<b>2.441</b>

<sup>1</sup>For definitions, see Notes on the last page of this section.

<sup>2</sup>The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation, and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces in Europe; and adjustments to account for discrepancies between reporting systems.  
R=Revised data.

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

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

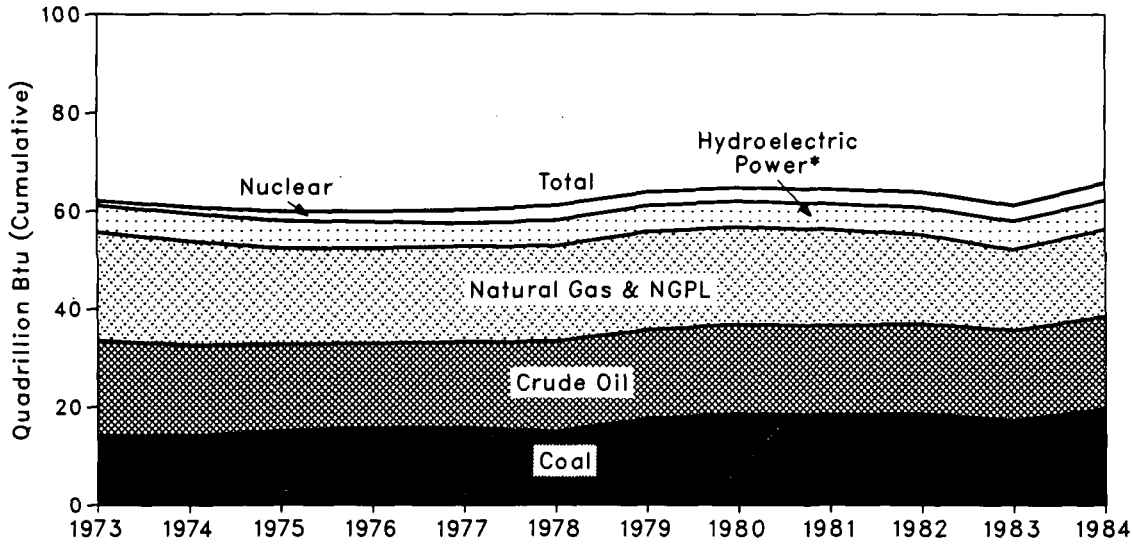
• Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric utilities.

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

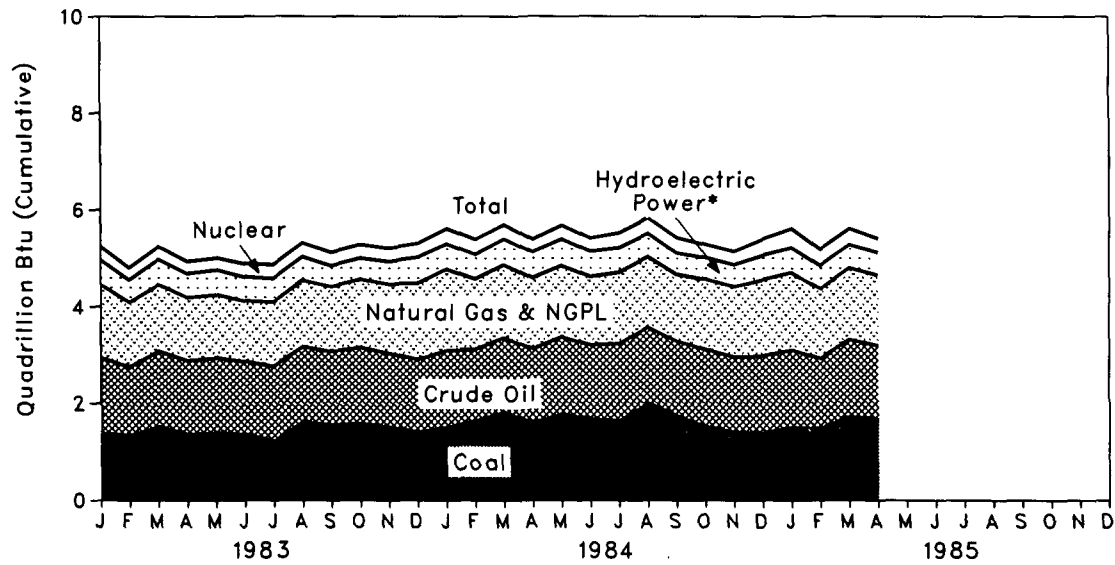
# Energy Summary

## Production of Energy by Source

Yearly



Monthly



\*Includes other.

# Energy Summary

## Production of Energy by Source

		Coal	Crude Oil <sup>1</sup>	NGPL <sup>2</sup>	Natural Gas (Dry)	Hydro-electric Power <sup>3</sup>	Nuclear Electric Power	Other <sup>4</sup>	Total	Year to Date
Quadrillion (10 <sup>15</sup> ) Btu										
<b>1973</b>	<b>Total</b>	<b>14.000</b>	<b>19.493</b>	<b>2.569</b>	<b>22.187</b>	<b>2.861</b>	<b>0.910</b>	<b>0.046</b>	<b>62.067</b>	
<b>1974</b>	<b>Total</b>	<b>14.080</b>	<b>18.575</b>	<b>2.471</b>	<b>21.210</b>	<b>3.177</b>	<b>1.272</b>	<b>0.056</b>	<b>60.841</b>	
<b>1975</b>	<b>Total</b>	<b>14.995</b>	<b>17.729</b>	<b>2.374</b>	<b>19.640</b>	<b>3.155</b>	<b>1.900</b>	<b>0.072</b>	<b>59.865</b>	
<b>1976</b>	<b>Total</b>	<b>15.659</b>	<b>17.262</b>	<b>2.327</b>	<b>19.480</b>	<b>2.976</b>	<b>2.111</b>	<b>0.081</b>	<b>59.896</b>	
<b>1977</b>	<b>Total</b>	<b>15.758</b>	<b>17.454</b>	<b>2.327</b>	<b>19.565</b>	<b>2.333</b>	<b>2.702</b>	<b>0.082</b>	<b>60.222</b>	
<b>1978</b>	<b>Total</b>	<b>14.912</b>	<b>18.434</b>	<b>2.245</b>	<b>19.485</b>	<b>2.937</b>	<b>3.024</b>	<b>0.068</b>	<b>61.106</b>	
<b>1979</b>	<b>Total</b>	<b>17.549</b>	<b>18.104</b>	<b>2.286</b>	<b>20.076</b>	<b>2.931</b>	<b>2.776</b>	<b>0.089</b>	<b>63.810</b>	
<b>1980</b>	<b>Total</b>	<b>18.600</b>	<b>18.249</b>	<b>2.254</b>	<b>19.907</b>	<b>2.900</b>	<b>2.739</b>	<b>0.114</b>	<b>64.764</b>	
<b>1981</b>	<b>Total</b>	<b>18.379</b>	<b>18.146</b>	<b>2.307</b>	<b>19.699</b>	<b>2.758</b>	<b>3.008</b>	<b>0.127</b>	<b>64.424</b>	
<b>1982</b>	<b>Total</b>	<b>18.641</b>	<b>18.309</b>	<b>2.191</b>	<b>18.255</b>	<b>3.256</b>	<b>3.131</b>	<b>0.108</b>	<b>63.892</b>	
<b>1983</b>	January	1.384	1.564	0.188	1.509	0.308	0.273	0.011	5.237	5.237
	February	1.338	1.422	0.169	1.329	0.295	0.242	0.008	4.803	10.040
	March	1.520	1.564	0.183	1.376	0.319	0.261	0.009	5.233	15.274
	April	1.364	1.527	0.173	1.300	0.316	0.244	0.009	4.933	20.207
	May	1.394	1.552	0.178	1.305	0.329	0.240	0.007	5.006	25.213
	June	1.363	1.508	0.175	1.245	0.324	0.263	0.009	4.889	30.102
	July	1.218	1.553	0.183	1.325	0.297	0.279	0.012	4.866	34.968
	August	1.617	1.561	0.186	1.375	0.272	0.286	0.015	5.312	40.280
	September	1.551	1.528	0.184	1.340	0.229	0.273	0.014	5.120	45.400
	October	1.583	1.577	0.191	1.415	0.219	0.281	0.015	5.280	50.680
	November	1.515	1.526	0.189	1.432	0.260	0.273	0.013	5.208	55.888
	December	1.405	1.510	0.184	1.577	0.333	0.287	0.011	5.308	61.196
	<b>Total</b>	<b>17.252</b>	<b>18.392</b>	<b>2.184</b>	<b>16.530</b>	<b>3.502</b>	<b>3.203</b>	<b>0.133</b>	<b>61.196</b>	
<b>1984</b>	January	1.508	R1.594	R0.193	1.679	0.314	0.320	0.011	R5.619	R5.619
	February	1.636	R1.493	R0.188	1.455	0.294	0.310	0.013	R5.388	R11.007
	March	1.811	R1.559	R0.196	1.499	0.321	0.298	0.015	R5.700	R16.707
	April	1.592	R1.542	0.192	1.469	0.316	0.264	0.014	R5.390	R22.097
	May	1.775	R1.610	0.198	1.464	0.336	0.282	0.014	R5.679	R27.776
	June	1.672	R1.540	0.192	1.417	0.304	0.276	0.013	R5.414	R33.190
	July	1.644	R1.598	R0.201	1.470	0.290	0.308	0.013	R5.524	R38.714
	August	1.995	R1.584	R0.201	1.450	0.265	0.322	0.016	R5.832	R44.546
	September	1.735	R1.565	R0.197	1.378	0.221	0.318	0.015	R5.428	R49.974
	October	1.525	R1.601	0.202	R1.454	0.220	0.270	0.016	R5.289	R55.264
	November	1.410	R1.562	R0.199	R1.452	0.235	0.268	0.016	R5.142	R60.406
	December	1.393	R1.600	0.202	R1.578	0.272	0.337	0.018	R5.400	R65.806
	<b>Total</b>	<b>19.696</b>	<b>R18.848</b>	<b>R2.362</b>	<b>R17.765</b>	<b>3.387</b>	<b>3.573</b>	<b>0.174</b>	<b>R65.806</b>	
<b>1985</b>	January	R1.510	1.605	0.202	R1.598	0.290	0.395	0.018	R5.618	R5.618
	February	R1.490	1.450	0.181	R1.442	0.273	0.336	0.016	R5.187	R10.805
	March	R1.726	1.605	0.198	R1.473	0.260	0.339	0.018	R5.619	R16.424
	April	1.664	1.539	0.190	1.455	0.258	0.289	0.015	5.409	21.832
	<b>Year to Date</b>	<b>6.389</b>	<b>6.199</b>	<b>0.771</b>	<b>5.968</b>	<b>1.081</b>	<b>1.358</b>	<b>0.067</b>	<b>21.832</b>	

<sup>1</sup>Includes lease condensate.

<sup>2</sup>Natural gas plant liquids.

<sup>3</sup>Includes industrial and utility production of hydroelectric power.

<sup>4</sup>Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

R=Revised data.

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

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

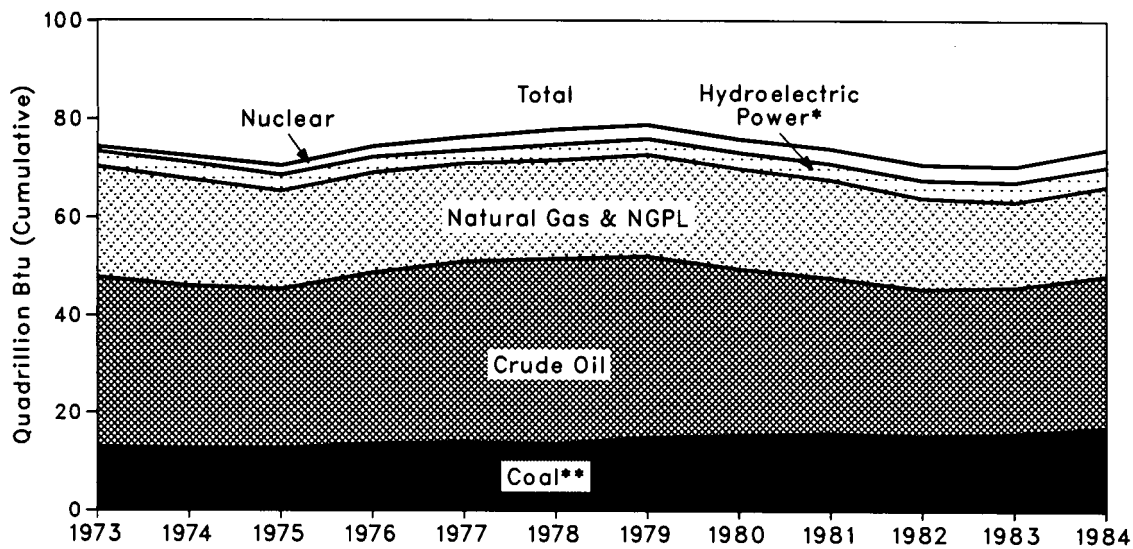
• Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric utilities.

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

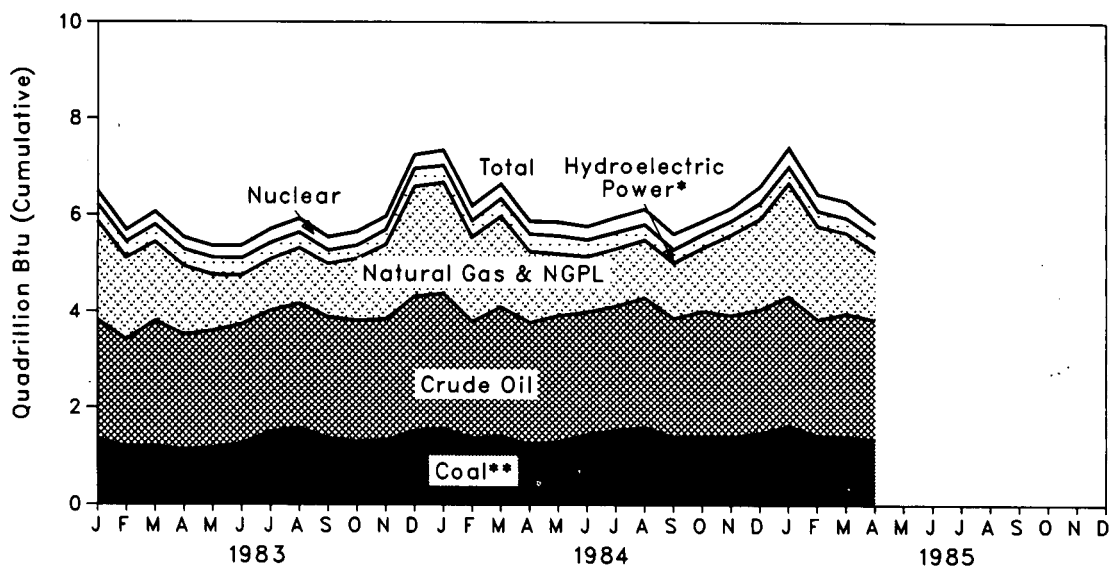
# Energy Summary

## Consumption of Energy by Source

### Yearly



### Monthly



\*Includes other.

\*\*Includes net imports of coal coke.

# Energy Summary

## Consumption of Energy by Source

		Coal	Natural Gas <sup>1</sup>	Petroleum	Hydro-electric Power <sup>2</sup>	Nuclear Electric Power	Net Imports of Coal Coke <sup>3</sup>	Other <sup>4</sup>	Total	Year to Date
Quadrillion (10 <sup>15</sup> ) Btu										
1973	Total	12.978	22.512	34.840	3.010	0.910	(0.008)	0.046	74.288	
1974	Total	12.668	21.732	33.455	3.309	1.272	0.056	0.056	72.548	
1975	Total	12.668	19.948	32.731	3.219	1.900	0.014	0.072	70.551	
1976	Total	13.589	20.345	35.175	3.066	2.111	0.000	0.081	74.366	
1977	Total	13.925	19.931	37.122	2.515	2.702	0.015	0.082	76.292	
1978	Total	13.767	20.000	37.965	3.141	3.024	0.125	0.068	78.091	
1979	Total	15.042	20.666	37.123	3.141	2.776	0.063	0.089	78.900	
1980	Total	15.426	20.391	34.202	3.118	2.739	(0.035)	0.114	75.955	
1981	Total	15.908	19.926	31.931	3.105	3.008	(0.016)	0.127	73.989	
1982	Total	15.324	18.507	30.232	3.561	3.131	(0.022)	0.108	70.842	
1983	January	1.360	2.036	2.467	0.337	0.273	(0.001)	0.011	6.483	6.483
	February	1.180	1.693	2.239	0.323	0.242	(0.001)	0.008	5.685	12.168
	March	1.196	1.640	2.604	0.348	0.261	(0.001)	0.009	6.058	18.226
	April	1.140	1.416	2.383	0.344	0.244	(0.002)	0.009	5.533	23.759
	May	1.173	1.153	2.431	0.352	0.240	(0.002)	0.007	5.355	29.113
	June	1.257	1.004	2.480	0.351	0.263	(0.001)	0.009	5.364	34.478
	July	1.500	1.066	2.517	0.328	0.279	(0.002)	0.012	5.700	40.178
	August	1.574	1.146	2.594	0.307	0.286	(0.001)	0.015	5.922	46.100
	September	1.367	1.104	2.515	0.266	0.273	(0.001)	0.014	5.538	51.638
	October	1.305	1.285	2.507	0.256	0.281	(0.001)	0.015	5.648	57.285
	November	1.326	1.550	2.514	0.292	0.273	(0.001)	0.013	5.966	63.252
	December	1.523	2.259	2.803	0.366	0.287	(0.003)	0.011	7.246	70.497
	<b>Total</b>	<b>15.900</b>	<b>17.352</b>	<b>30.054</b>	<b>3.871</b>	<b>3.203</b>	<b>(0.016)</b>	<b>0.133</b>	<b>70.497</b>	
1984	January	1.561	R2.288	R2.817	0.344	0.320	0.001	0.011	R7.341	R7.341
	February	1.367	R1.755	R2.421	0.325	0.310	0.002	0.013	R6.194	R13.535
	March	1.411	R1.871	R2.691	0.351	0.298	(0.001)	0.015	R6.637	R20.172
	April	1.279	R1.476	R2.526	0.346	0.264	0.000	0.014	R5.906	R26.078
	May	1.306	R1.277	R2.619	0.361	0.282	(0.001)	0.014	R5.858	R31.936
	June	1.448	R1.151	R2.549	0.334	0.276	(0.002)	0.013	R5.768	R37.704
	July	1.528	R1.184	2.599	0.324	0.308	(0.001)	0.013	R5.955	R43.659
	August	1.596	R1.193	R2.702	0.302	0.322	(0.002)	0.016	R6.129	R49.788
	September	1.392	R1.153	R2.474	0.261	0.318	0.000	0.015	R5.611	R55.399
	October	1.403	R1.308	R2.619	0.260	0.270	(0.003)	0.016	R5.873	R61.272
	November	1.402	R1.664	R2.536	0.269	0.268	(0.003)	0.016	R6.153	R67.425
	December	1.479	R1.872	R2.578	0.307	0.337	(0.001)	0.018	R6.590	R74.016
	<b>Total</b>	<b>17.172</b>	<b>R18.192</b>	<b>R31.132</b>	<b>3.784</b>	<b>3.573</b>	<b>(0.011)</b>	<b>0.174</b>	<b>R74.016</b>	
1985	January	R1.627	R2.332	R2.707	0.323	0.395	0.000	0.018	R7.402	R7.402
	February	R1.430	R1.928	R2.420	0.306	0.336	0.001	0.016	R6.437	R13.839
	March	R1.408	R1.667	R2.569	0.293	0.339	0.000	0.018	R6.294	R20.133
	April	1.353	1.398	2.490	0.290	0.289	0.001	0.015	5.835	25.968
	<b>Year to Date</b>	<b>5.818</b>	<b>7.325</b>	<b>10.185</b>	<b>1.213</b>	<b>1.358</b>	<b>0.003</b>	<b>0.067</b>	<b>25.968</b>	

<sup>1</sup>Includes supplemental gaseous fuels.

<sup>2</sup>Includes industrial and utility production and net imports of electricity.

<sup>3</sup>Parentheses indicate exports are greater than imports.

<sup>4</sup>Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

R = Revised data.

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

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

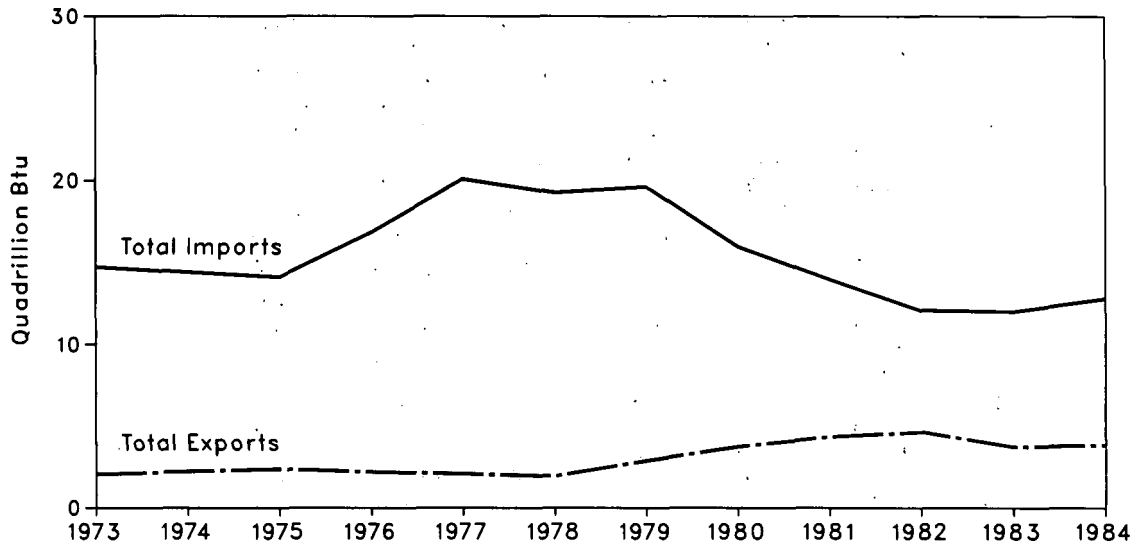
• Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric utilities.

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

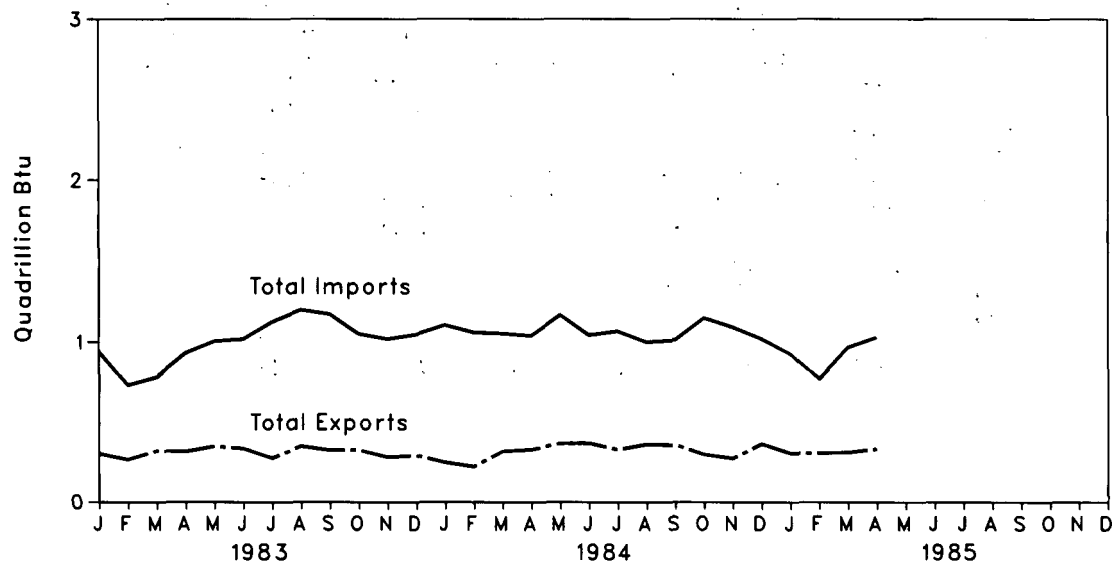
# Energy Summary

## Energy Imports and Exports

Yearly



Monthly





# Energy Summary

## Net Imports<sup>1</sup> of Energy by Source

		Coal	Crude Oil <sup>2</sup>	Refined Petroleum Products <sup>3</sup>	Natural Gas	Electricity	Coal Coke	Total	Year to Date
Quadrillion (10 <sup>15</sup> ) Btu									
<b>1973</b>	<b>Total</b>	<b>(1.422)</b>	<b>6.883</b>	<b>6.097</b>	<b>0.981</b>	<b>0.148</b>	<b>(0.008)</b>	<b>12.680</b>	
<b>1974</b>	<b>Total</b>	<b>(1.568)</b>	<b>7.389</b>	<b>5.273</b>	<b>0.907</b>	<b>0.133</b>	<b>0.056</b>	<b>12.190</b>	
<b>1975</b>	<b>Total</b>	<b>(1.738)</b>	<b>8.708</b>	<b>3.800</b>	<b>0.904</b>	<b>0.064</b>	<b>0.014</b>	<b>11.752</b>	
<b>1976</b>	<b>Total</b>	<b>(1.567)</b>	<b>11.221</b>	<b>3.982</b>	<b>0.922</b>	<b>0.089</b>	<b>0.000</b>	<b>14.648</b>	
<b>1977</b>	<b>Total</b>	<b>(1.401)</b>	<b>13.921</b>	<b>4.321</b>	<b>0.981</b>	<b>0.182</b>	<b>0.015</b>	<b>18.018</b>	
<b>1978</b>	<b>Total</b>	<b>(1.004)</b>	<b>13.125</b>	<b>3.932</b>	<b>0.941</b>	<b>0.204</b>	<b>0.125</b>	<b>17.323</b>	
<b>1979</b>	<b>Total</b>	<b>(1.702)</b>	<b>13.328</b>	<b>3.603</b>	<b>1.243</b>	<b>0.211</b>	<b>0.063</b>	<b>16.745</b>	
<b>1980</b>	<b>Total</b>	<b>(2.391)</b>	<b>10.586</b>	<b>2.912</b>	<b>0.957</b>	<b>0.217</b>	<b>(0.035)</b>	<b>12.247</b>	
<b>1981</b>	<b>Total</b>	<b>(2.918)</b>	<b>8.854</b>	<b>2.522</b>	<b>0.855</b>	<b>0.347</b>	<b>(0.016)</b>	<b>9.644</b>	
<b>1982</b>	<b>Total</b>	<b>(2.768)</b>	<b>6.917</b>	<b>2.128</b>	<b>0.896</b>	<b>0.306</b>	<b>(0.022)</b>	<b>7.457</b>	
<b>1983</b>	January	(0.116)	0.514	0.105	0.110	0.028	(0.001)	0.641	0.641
	February	(0.113)	0.327	0.134	0.092	0.029	(0.001)	0.468	1.108
	March	(0.162)	0.382	0.134	0.083	0.028	(0.001)	0.464	1.572
	April	(0.157)	0.530	0.148	0.071	0.028	(0.002)	0.617	2.190
	May	(0.180)	0.556	0.202	0.057	0.023	(0.002)	0.657	2.847
	June	(0.188)	0.600	0.188	0.057	0.028	(0.001)	0.684	3.531
	July	(0.159)	0.673	0.252	0.054	0.032	(0.002)	0.851	4.382
	August	(0.217)	0.732	0.252	0.051	0.034	(0.001)	0.852	5.233
	September	(0.195)	0.705	0.239	0.065	0.037	(0.001)	0.849	6.082
	October	(0.209)	0.597	0.241	0.061	0.037	(0.001)	0.726	6.809
	November	(0.153)	0.551	0.233	0.077	0.032	(0.001)	0.739	7.548
	December	(0.162)	0.563	0.222	0.105	0.032	(0.003)	0.758	8.306
	<b>Total</b>	<b>(2.013)</b>	<b>6.731</b>	<b>2.351</b>	<b>0.883</b>	<b>0.369</b>	<b>(0.016)</b>	<b>8.306</b>	
<b>1984</b>	January	(0.132)	R0.524	R0.340	R0.094	E0.031	0.001	R0.858	R0.858
	February	(0.109)	0.467	R0.382	R0.066	E0.031	0.002	R0.839	R1.697
	March	(0.152)	R0.584	R0.211	R0.065	E0.031	(0.001)	R0.737	R2.434
	April	(0.200)	0.567	R0.247	R0.068	E0.030	0.000	R0.712	R3.145
	May	(0.216)	R0.672	R0.258	R0.063	E0.025	(0.001)	R0.801	R3.947
	June	(0.206)	R0.581	R0.216	R0.057	E0.030	(0.002)	R0.675	R4.622
	July	(0.215)	0.639	R0.231	R0.051	E0.034	(0.001)	R0.739	R5.361
	August	(0.214)	R0.552	0.216	R0.050	E0.037	(0.002)	R0.640	R6.001
	September	(0.228)	R0.556	R0.236	R0.053	E0.040	0.000	R0.657	R6.658
	October	(0.173)	0.652	R0.272	R0.064	E0.039	(0.003)	0.851	R7.508
	November	(0.109)	R0.591	R0.225	0.081	E0.035	(0.003)	R0.820	R8.328
	December	(0.169)	R0.533	R0.169	R0.091	E0.035	(0.001)	R0.659	R8.987
	<b>Total</b>	<b>(2.122)</b>	<b>R6.918</b>	<b>R3.003</b>	<b>R0.803</b>	<b>E0.397</b>	<b>(0.011)</b>	<b>R8.987</b>	
<b>1985</b>	January	(0.151)	0.462	0.176	0.101	E0.033	0.000	0.622	0.622
	February	(0.157)	0.311	0.180	R0.096	E0.033	0.001	R0.465	R1.087
	March	(0.174)	0.473	0.238	0.087	E0.033	0.000	0.657	R1.744
	April	(0.182)	0.553	0.221	0.072	E0.033	0.001	0.698	2.441
	<b>Year to Date</b>	<b>(0.664)</b>	<b>1.798</b>	<b>0.815</b>	<b>0.357</b>	<b>E0.132</b>	<b>0.003</b>	<b>2.441</b>	

<sup>1</sup>Net imports equals imports minus exports. Parentheses indicate exports are greater than imports.

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

<sup>3</sup>Includes refined petroleum products, unfinished oils, natural gasoline, and plant condensate.

E=Estimated value. R=Revised data.

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

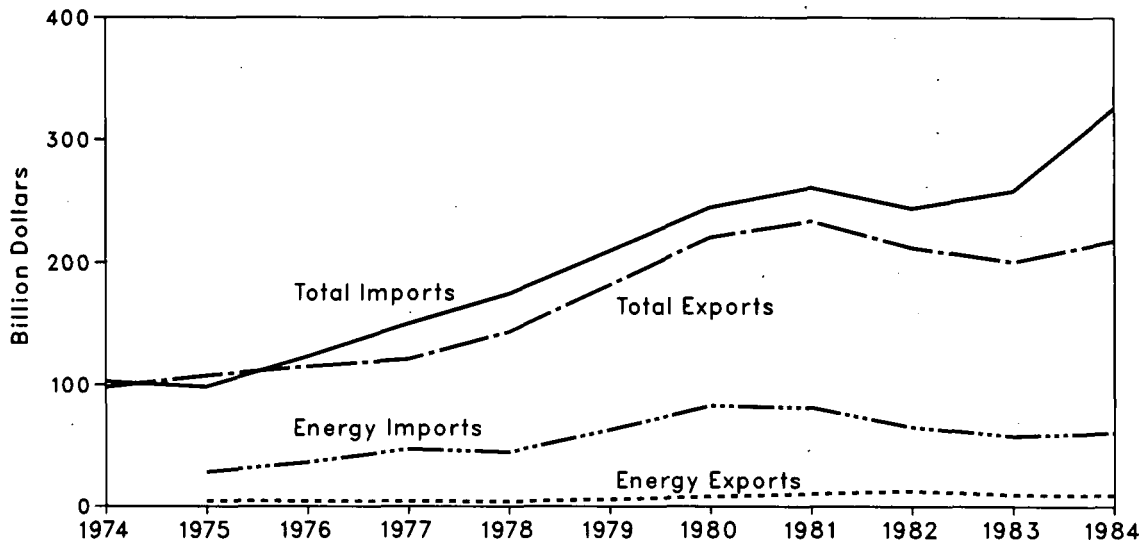
• Totals may not equal sum of components due to independent rounding.

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

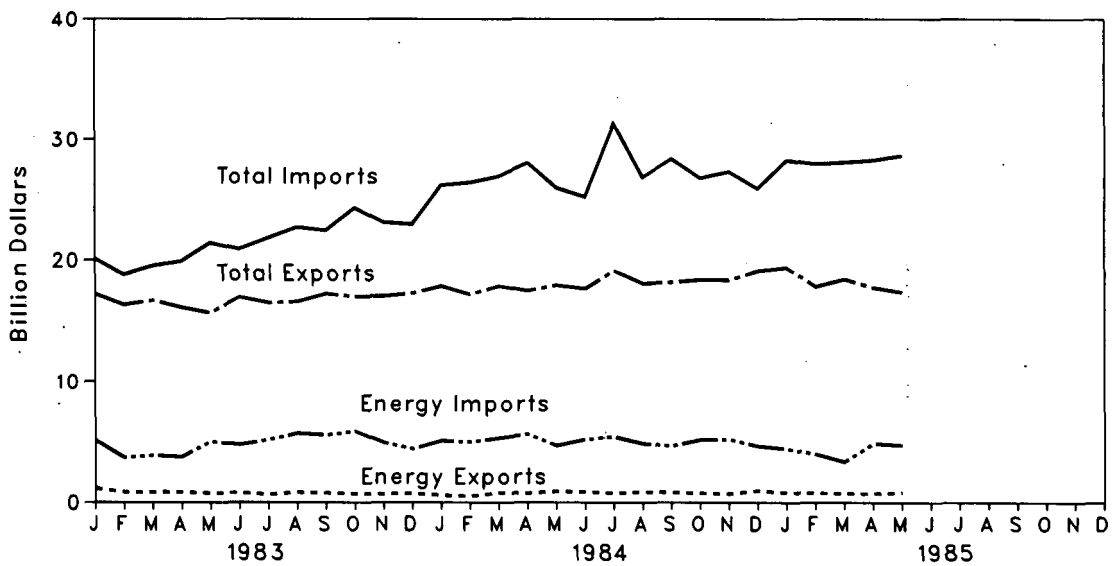
# Energy Summary

## Merchandise Trade Value

Yearly



Monthly



# Energy Summary

## Merchandise Trade Value

	Exports			Imports			Trade Balance			
	Energy	All Other	Total	Energy	All Other	Total	Energy	All Other	Total	
Million dollars										
<b>1974</b>	<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>98,092</b>	<b>NA</b>	<b>NA</b>	<b>102,559</b>	<b>NA</b>	<b>NA</b>	<b>-4,467</b>
<b>1975</b>	<b>Total</b>	<b>4,470</b>	<b>103,182</b>	<b>107,652</b>	<b>28,325</b>	<b>70,178</b>	<b>98,503</b>	<b>-23,855</b>	<b>+33,004</b>	<b>+9,149</b>
<b>1976</b>	<b>Total</b>	<b>4,226</b>	<b>110,997</b>	<b>115,223</b>	<b>36,384</b>	<b>87,093</b>	<b>123,477</b>	<b>-32,158</b>	<b>+23,904</b>	<b>-8,254</b>
<b>1977</b>	<b>Total</b>	<b>4,184</b>	<b>117,048</b>	<b>121,232</b>	<b>47,153</b>	<b>103,237</b>	<b>150,390</b>	<b>-42,969</b>	<b>+13,811</b>	<b>-29,158</b>
<b>1978</b>	<b>Total</b>	<b>3,882</b>	<b>139,799</b>	<b>143,681</b>	<b>44,763</b>	<b>129,994</b>	<b>174,757</b>	<b>-40,881</b>	<b>+9,805</b>	<b>-31,076</b>
<b>1979</b>	<b>Total</b>	<b>5,675</b>	<b>176,185</b>	<b>181,860</b>	<b>63,077</b>	<b>146,381</b>	<b>209,458</b>	<b>-57,402</b>	<b>+29,803</b>	<b>-27,599</b>
<b>1980</b>	<b>Total</b>	<b>7,982</b>	<b>212,644</b>	<b>220,626</b>	<b>82,924</b>	<b>161,947</b>	<b>244,871</b>	<b>-74,942</b>	<b>+50,698</b>	<b>-24,244</b>
<b>1981</b>	<b>Total</b>	<b>10,279</b>	<b>223,398</b>	<b>233,677</b>	<b>81,360</b>	<b>179,622</b>	<b>260,982</b>	<b>-71,081</b>	<b>+43,776</b>	<b>-27,305</b>
<b>1982</b>	<b>Total</b>	<b>12,729</b>	<b>199,464</b>	<b>212,193</b>	<b>65,409</b>	<b>178,543</b>	<b>243,952</b>	<b>-52,680</b>	<b>+20,921</b>	<b>-31,759</b>
<b>1983</b>	January	1,142	16,090	17,232	5,142	14,985	20,127	-4,000	+1,105	-2,895
	February	833	15,479	16,312	3,704	15,100	18,804	-2,871	+378	-2,493
	March	822	15,868	16,690	3,865	15,663	19,528	-3,043	+206	-2,837
	April	850	15,245	16,095	3,763	16,151	19,914	-2,913	-906	-3,819
	May	750	14,905	15,655	5,033	16,413	21,446	-4,283	-1,508	-5,791
	June	791	16,168	16,959	4,767	16,149	20,916	-3,976	+19	-3,957
	July	644	15,842	16,486	5,164	16,664	21,828	-4,520	-821	-5,341
	August	824	15,758	16,582	5,703	17,011	22,714	-4,879	-1,253	-6,132
	September	778	16,479	17,257	5,571	16,880	22,451	-4,793	-402	-5,195
	October	699	16,334	17,033	5,872	18,461	24,333	-5,173	-2,127	-7,300
	November	689	16,374	17,063	4,951	18,164	23,115	-4,262	-1,790	-6,052
	December	739	16,559	17,298	4,417	18,559	22,976	-3,678	-2,000	-5,678
	<b>Total</b>	<b>9,500</b>	<b>190,986</b>	<b>200,486</b>	<b>57,952</b>	<b>200,096</b>	<b>258,048</b>	<b>-48,452</b>	<b>-9,110</b>	<b>-57,562</b>
<b>1984</b>	January	582	17,307	17,889	5,089	21,116	26,205	-4,507	-3,809	-8,316
	February	502	16,706	17,208	5,006	21,414	26,420	-4,504	-4,708	-9,212
	March	790	17,116	17,906	5,323	21,625	26,948	-4,533	-4,510	-9,043
	April	759	16,761	17,520	5,629	22,445	28,074	-4,870	-5,683	-10,553
	May	901	17,077	17,978	4,696	21,316	26,012	-3,795	-4,239	-8,034
	June	872	16,833	17,705	5,206	20,070	25,276	-4,334	-3,237	-7,571
	July	765	18,389	19,154	5,434	25,900	31,334	-4,669	-7,511	-12,180
	August	878	17,245	18,123	4,886	21,980	26,866	-4,008	-4,735	-8,743
	September	820	17,390	18,210	4,663	23,746	28,409	-3,843	-6,357	-10,200
	October	757	17,654	18,411	5,168	21,615	26,783	-4,411	-3,961	-8,372
	November	712	17,683	18,395	5,207	22,124	27,331	-4,495	-4,442	-8,937
	December	973	18,169	19,142	4,672	21,261	25,933	-3,699	-3,092	-6,791
	<b>Total</b>	<b>9,311</b>	<b>208,554</b>	<b>217,865</b>	<b>60,980</b>	<b>264,746</b>	<b>325,726</b>	<b>-51,669</b>	<b>-56,192</b>	<b>-107,861</b>
<b>1985</b>	January	804	18,597	19,401	4,434	23,863	28,297	-3,630	-5,266	-8,896
	February	786	17,067	17,853	3,989	23,996	27,985	-3,203	-6,928	-10,131
	March	754	17,692	18,446	3,351	24,778	28,129	-2,597	-7,086	-9,683
	April	738	17,041	17,779	4,876	23,419	28,295	-4,138	-6,378	-10,516
	May	837	16,577	17,414	4,748	23,937	28,685	-3,911	-7,360	-11,271
	<b>Year to Date</b>	<b>3,919</b>	<b>86,975</b>	<b>90,894</b>	<b>21,398</b>	<b>119,993</b>	<b>141,391</b>	<b>-17,479</b>	<b>-33,018</b>	<b>-50,497</b>

NA=Not available.

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

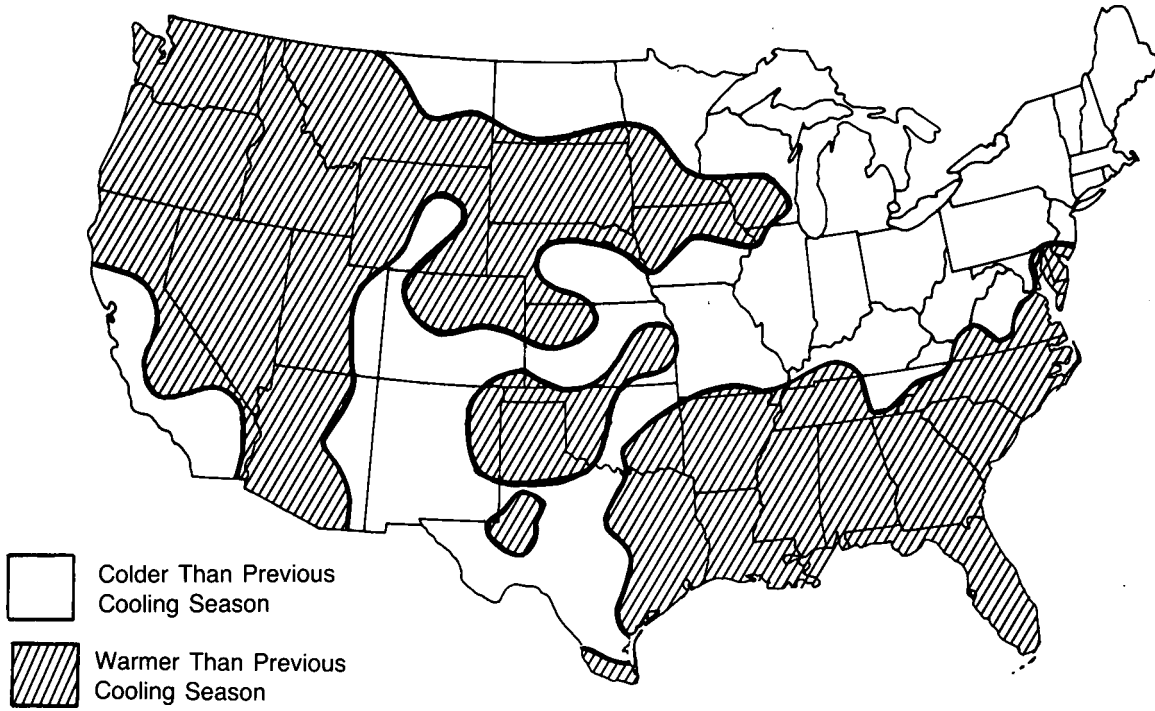
• The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory (which is comprised of the 50 States, the District of Columbia, and Puerto Rico) and the Virgin Islands.

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

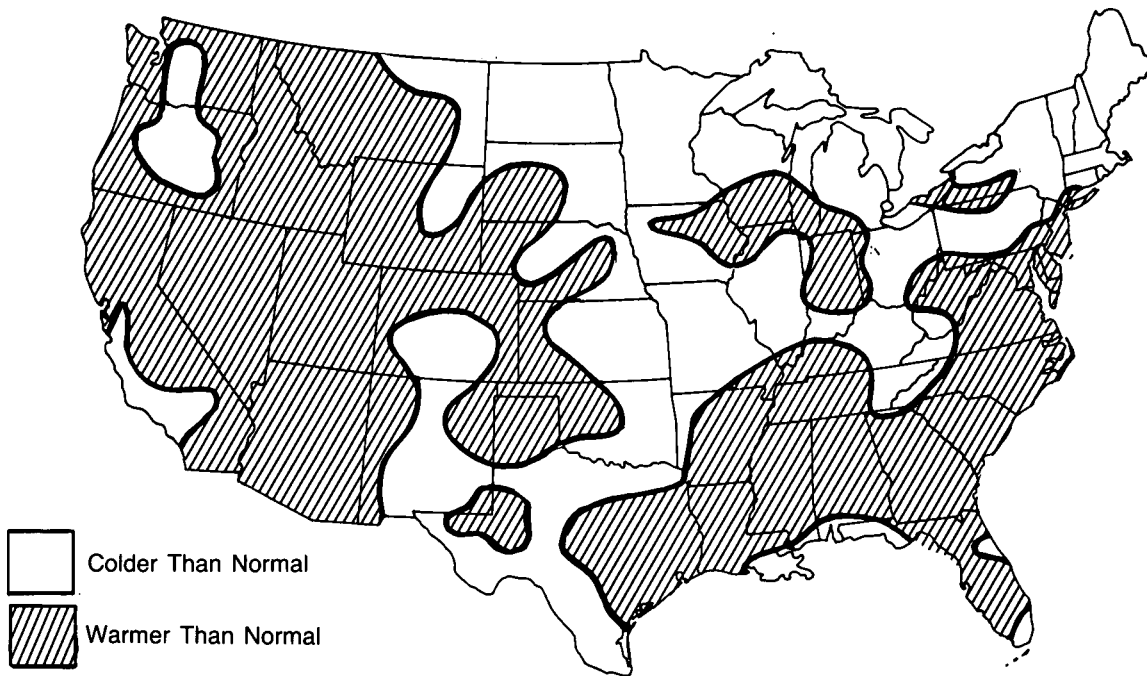
# Energy Summary

Cooling Degree-Days Accumulated from January 1, 1985 through June 29, 1985

## Departure from Previous Cooling Season



## Departure from Normal



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

# Energy Summary

## Population-Weighted Cooling Degree-Days<sup>1</sup>

Census Divisions	June 1 through June 30					Cumulative January 1 through June 30				
	Normal <sup>2</sup>	1984	1985	Percent Change		Normal <sup>2</sup>	1984	1985	Percent Change	
				Normal to 1985	1984 to 1985				Normal to 1985	1984 to 1985
<b>New England</b> CT, ME, MA, NH, RI, VT	71	115	30	-57.7	-73.9	71	120	43	( <sup>3</sup> )	( <sup>3</sup> )
<b>Middle Atlantic</b> NJ, NY, PA	138	166	68	-50.7	-59.0	157	177	118	-24.8	-33.3
<b>Eastern North Central</b> IL, IN, MI, OH, WI	163	196	89	-45.4	-54.6	206	213	172	-16.5	-19.2
<b>Western North Central</b> IA, KS, MN, MO, NE, ND, SD	197	207	127	-35.5	-38.6	301	239	218	-27.6	-8.8
<b>South Atlantic</b> DE, FL, GA, MD and DC, NC, SC, VA, WV	305	329	315	3.3	-4.3	634	613	691	9.0	12.7
<b>Eastern South Central</b> AL, KY, MS, TN	309	339	295	-4.5	-13.0	511	463	506	-1.0	9.3
<b>Western South Central</b> AR, LA, OK, TX	443	446	417	-5.9	-6.5	844	819	862	2.1	5.3
<b>Mountain</b> AZ, CO, ID, MT, NV, NM, UT, WY	191	182	225	17.8	23.6	279	332	370	32.6	11.4
<b>Pacific Coast</b> CA, OR, WA	79	66	117	48.1	77.3	82	110	137	( <sup>3</sup> )	( <sup>3</sup> )
<b>U.S. Average<sup>4</sup></b>	<b>209</b>	<b>227</b>	<b>181</b>	<b>-13.4</b>	<b>-20.3</b>	<b>342</b>	<b>342</b>	<b>345</b>	<b>0.9</b>	<b>0.9</b>

<sup>1</sup> See Note 6 on the last page of this section for explanation of degree-days.

<sup>2</sup> Normal is based on calculations of data from 1951 through 1980.

<sup>3</sup> Percent change not meaningful.

<sup>4</sup> Excludes Alaska and Hawaii.

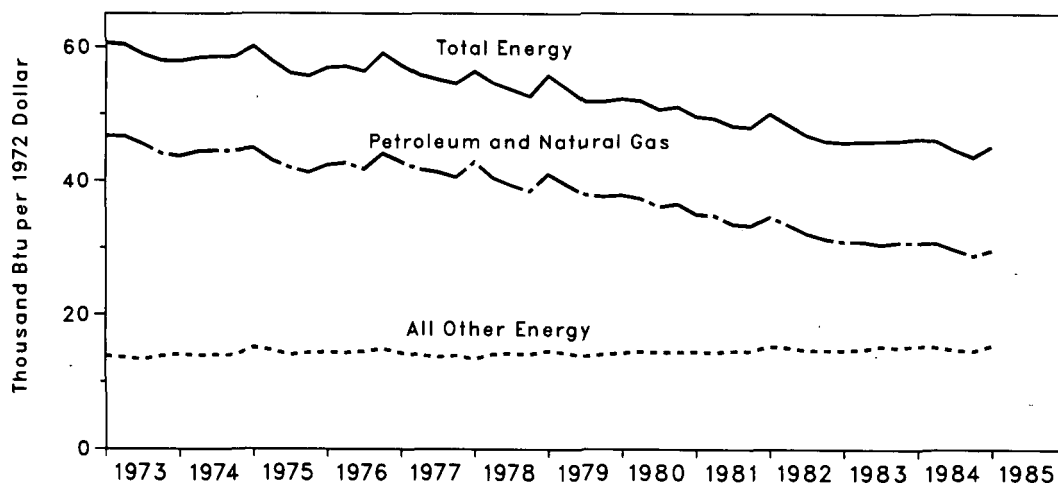
Source: • See Note 6 on the last page of this section.

# Energy Summary

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

	Annual Rate of Energy Consumption	Gross National Product (GNP)	Energy Consumption per Dollar of GNP (Seasonally Adjusted)				
			Quadrillion Btu	Trillion 1972 dollars	Total Energy	Petroleum and Natural Gas	All Other Energy
					Thousand Btu per 1972 dollar		
<b>1973</b>	<b>Year</b>	<b>74.288</b>	<b>1.254</b>	<b>59.2</b>	<b>45.7</b>	<b>13.5</b>	
<b>1974</b>	<b>Year</b>	<b>72.548</b>	<b>1.246</b>	<b>58.2</b>	<b>44.3</b>	<b>13.9</b>	
<b>1975</b>	<b>Year</b>	<b>70.551</b>	<b>1.232</b>	<b>57.3</b>	<b>42.8</b>	<b>14.5</b>	
<b>1976</b>	<b>Year</b>	<b>74.366</b>	<b>1.298</b>	<b>57.3</b>	<b>42.8</b>	<b>14.5</b>	
<b>1977</b>	<b>Year</b>	<b>76.292</b>	<b>1.370</b>	<b>55.7</b>	<b>41.6</b>	<b>14.1</b>	
<b>1978</b>	<b>Year</b>	<b>78.091</b>	<b>1.439</b>	<b>54.3</b>	<b>40.3</b>	<b>14.0</b>	
<b>1979</b>	<b>Year</b>	<b>78.900</b>	<b>1.479</b>	<b>53.3</b>	<b>39.1</b>	<b>14.2</b>	
<b>1980</b>	<b>Year</b>	<b>75.955</b>	<b>1.475</b>	<b>51.5</b>	<b>37.0</b>	<b>14.5</b>	
<b>1981</b>	<b>Year</b>	<b>73.989</b>	<b>1.512</b>	<b>48.9</b>	<b>34.3</b>	<b>14.6</b>	
<b>1982</b>	<b>Year</b>	<b>70.842</b>	<b>1.480</b>	<b>47.9</b>	<b>32.9</b>	<b>15.0</b>	
<b>1983</b>	1st Quarter <sup>1</sup>	68.231	1.491	45.8	31.0	14.8	
	2nd Quarter <sup>1</sup>	70.000	1.525	45.9	31.0	14.9	
	3rd Quarter <sup>1</sup>	71.250	1.550	46.0	30.6	15.4	
	4th Quarter <sup>1</sup>	72.453	1.573	46.1	30.9	15.2	
	<b>Year</b>	<b>70.497</b>	<b>1.535</b>	<b>45.9</b>	<b>30.9</b>	<b>15.0</b>	
<b>1984</b>	1st Quarter <sup>1</sup>	R74.725	1.611	R46.4	R30.9	R15.5	
	2nd Quarter <sup>1</sup>	R75.476	1.639	R46.1	R30.8	15.3	
	3rd Quarter <sup>1</sup>	R73.498	1.645	R44.7	R29.8	14.9	
	4th Quarter <sup>1</sup>	R72.388	1.662	R43.6	R28.9	R14.7	
	<b>Year</b>	<b>R74.016</b>	<b>1.639</b>	<b>R45.2</b>	<b>R30.1</b>	<b>15.1</b>	
<b>1985</b>	1st Quarter <sup>1</sup>	R75.251	R1.664	R45.2	29.7	R15.5	

Quarterly Energy Consumption per Dollar of Gross National Product<sup>1</sup>  
(Seasonally Adjusted)



<sup>1</sup>Quarterly data are seasonally adjusted and shown at annual rates.

R=Revised data.

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

• Yearly data may not equal average of quarters due to seasonality adjustments and independent rounding.

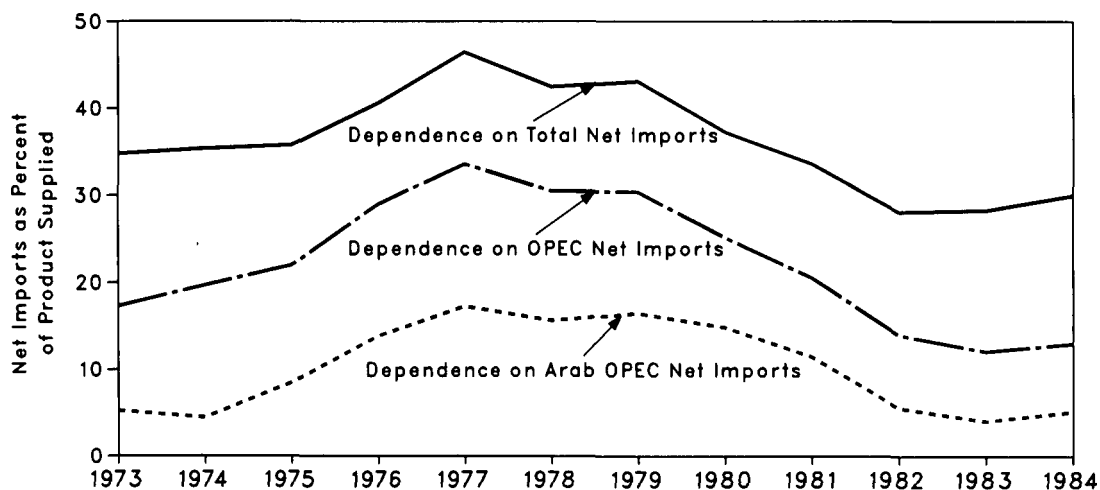
Sources: • See the last page of this section.

# Energy Summary

## Energy Indicator—U.S. Dependence on Petroleum Net Imports<sup>1</sup>

		Net Imports <sup>2</sup>			Net Imports as Percent of U.S. Petroleum Products Supplied			
		From Arab OPEC <sup>3</sup> Countries	From All OPEC <sup>4</sup> Countries	From All Countries	Petroleum Products Supplied	From Arab OPEC <sup>3</sup> Countries	From All OPEC <sup>4</sup> Countries	From All Countries
Annual Rate		Thousand barrels per day				Percent		
1973	Average	914	2,991	6,025	17,308	5.3	17.3	34.8
1974	Average	752	3,277	5,892	16,653	4.5	19.7	35.4
1975	Average	1,382	3,599	5,846	16,322	8.5	22.0	35.8
1976	Average	2,423	5,063	7,090	17,461	13.9	29.0	40.6
1977	Average	3,184	6,190	8,565	18,431	17.3	33.6	46.5
1978	Average	2,962	5,747	8,002	18,847	15.7	30.5	42.5
1979	Average	3,054	5,633	7,985	18,513	16.5	30.4	43.1
1980	Average	2,549	4,293	6,365	17,056	14.9	25.2	37.3
1981	Average	1,844	3,315	5,401	16,058	11.5	20.6	33.6
1982	Average	852	2,136	4,298	15,296	5.6	14.0	28.1
1983	1st Quarter	351	1,174	3,079	15,026	2.3	7.8	20.5
	2nd Quarter	444	1,708	4,237	14,825	3.0	11.5	28.6
	3rd Quarter	860	2,501	5,370	15,333	5.6	16.3	35.0
	4th Quarter	857	1,972	4,536	15,732	5.4	12.5	28.8
	Average	630	1,843	4,312	15,231	4.1	12.1	28.3
1984	1st Quarter	R769	R1,878	R4,802	R16,110	R4.8	R11.7	R29.8
	2nd Quarter	R907	R2,278	R4,853	R15,632	R5.8	R14.6	R31.0
	3rd Quarter	R877	R2,080	R4,590	R15,625	5.6	R13.3	R29.4
	4th Quarter	R715	R1,912	R4,618	R15,538	4.6	R12.3	R29.7
	Average	R817	R2,037	R4,715	R15,726	R5.2	R13.0	R30.0
1985	1st Quarter	327	1,364	3,564	15,807	2.1	8.6	22.5

### U.S. Dependence on Petroleum Net Imports



<sup>1</sup>Beginning in October 1977, Strategic Petroleum Reserves are included.

<sup>2</sup>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.

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

<sup>4</sup>Includes Arab OPEC countries plus Ecuador, Gabon, Indonesia, Iran, Nigeria, and Venezuela.

R=Revised data.

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

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

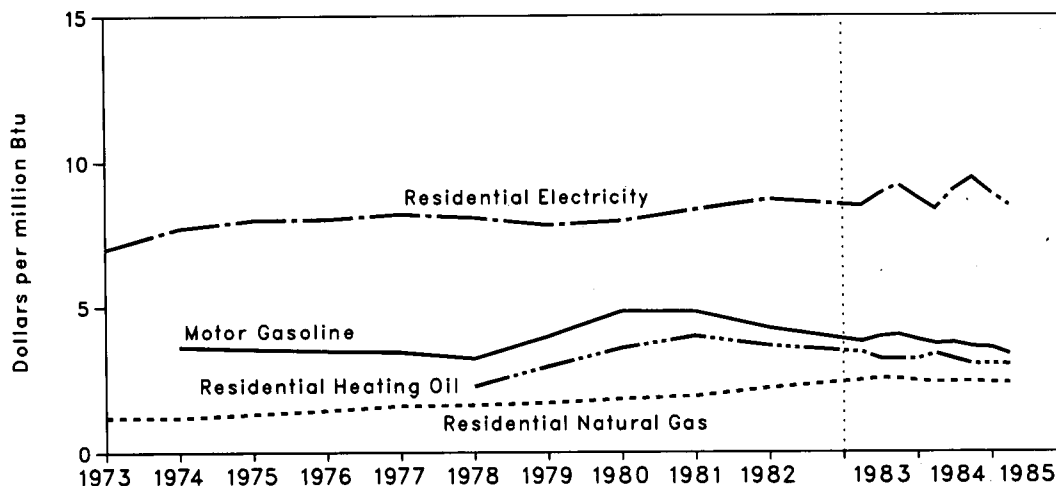
Sources: • See the last page of this section.

# Energy Summary

## Energy Indicator—Cost of Fuels to End Users in Constant (1972) Dollars<sup>1</sup>

		Leaded Regular Motor Gasoline		Residential Heating Oil		Residential Natural Gas		Residential Electricity	
		cent/gal	\$/MMBtu	cent/gal	\$/MMBtu	cent/Mcf	\$/MMBtu	cent/kWh	\$/MMBtu
1973	Average	NA	NA	NA	NA	121.4	1.19	2.39	7.00
1974	Average	45.1	3.61	NA	NA	121.3	1.18	2.63	7.71
1975	Average	44.1	3.53	NA	NA	132.9	1.30	2.73	8.00
1976	Average	43.4	3.47	NA	NA	145.5	1.43	2.74	8.03
1977	Average	42.9	3.43	NA	NA	162.2	1.59	2.80	8.21
1978	Average	40.1	3.21	31.4	2.26	164.2	1.62	2.76	8.09
1979	Average	49.4	3.95	40.6	2.93	171.8	1.69	2.67	7.83
1980	Average	60.5	4.84	49.4	3.56	186.8	1.82	2.72	7.97
1981	Average	60.4	4.83	54.9	3.96	197.3	1.92	2.85	8.35
1982	Average	53.0	4.24	50.3	3.63	224.1	2.19	2.97	8.70
1983	1st Quarter	47.1	3.77	47.3	3.41	252.6	2.45	2.89	8.47
	2nd Quarter	49.3	3.94	44.2	3.19	260.0	2.52	3.03	8.88
	3rd Quarter	50.0	4.00	43.9	3.17	258.1	2.50	3.14	9.20
	4th Quarter	47.9	3.83	43.9	3.17	250.9	2.43	2.99	8.76
	Average	48.6	3.89	45.3	3.27	254.5	2.47	3.01	8.82
1984	1st Quarter	46.1	3.69	46.4	3.35	245.0	2.38	2.85	8.35
	2nd Quarter	46.5	3.72	43.9	3.17	247.2	2.40	3.08	9.03
	3rd Quarter	44.9	3.59	41.6	3.00	248.5	2.41	3.22	9.44
	4th Quarter	44.5	3.56	41.7	3.01	244.3	2.37	3.04	8.91
	Average	45.5	3.64	43.9	3.17	244.1	2.37	3.04	8.91
1985	1st Quarter	41.7	3.33	41.5	2.99	243.2	2.36	2.89	8.47

## Average Cost of Fuels to End Users in Constant (1972) Dollars<sup>1</sup>



<sup>1</sup>Fuel costs shown on this page are calculated using the Urban Consumer Price Index developed by the Bureau of Labor Statistics. See the Conversion Factors section of this report.

NA = Not available.

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

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

Sources: • See the last page of this section.

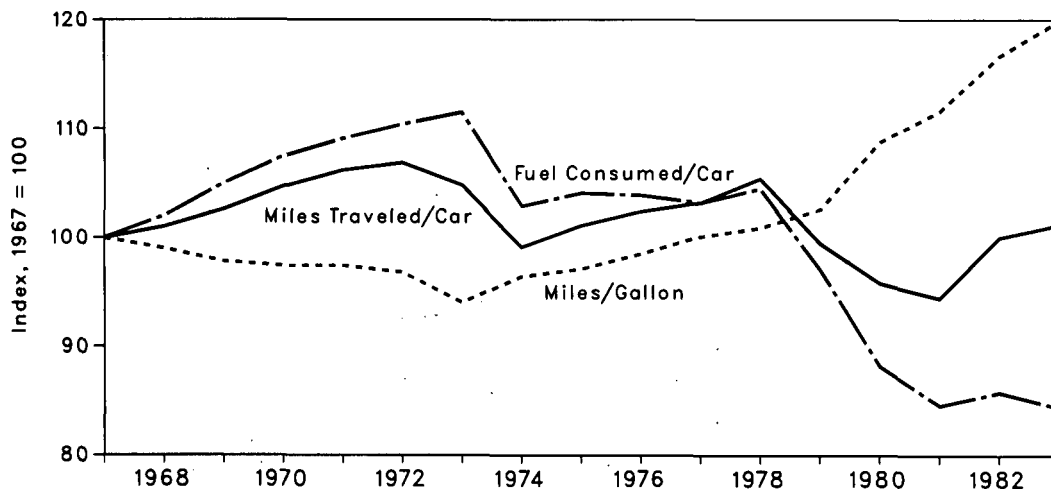


# Energy Summary

## Energy Indicator—U.S. Passenger Car Efficiency

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

U.S. Passenger Car Efficiency Index



†Preliminary data.

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

Sources: • See the last page of this section.

# Notes and Sources for the Energy Summary Section

## Notes

**1. Energy Production:** Production of energy includes production of coal, crude oil and lease condensate, natural gas plant liquids, natural gas (dry), electric utility and industrial production of hydroelectric power, electricity generated from nuclear power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. The volumetric data are converted to approximate heat contents (Btu values) of these energy sources using the conversion factors provided in the Conversion Factors section of this publication.

**2. Energy Consumption:** Consumption of energy includes consumption of coal, natural gas (including supplemental gaseous fuels), refined petroleum products supplied, electric utility and industrial production of hydroelectric power, net imports of electricity produced from hydroelectric power, net imports of coal coke, electricity generated from nuclear power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication.

**3. Energy Imports:** Energy imports include imports of coal, crude oil (including crude oil imported for the Strategic Petroleum Reserve), refined petroleum products, natural gas, electricity produced from hydroelectric power, and coal coke. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication. For further information on electricity, see the note and sources for imports and exports of electricity in Note 7 of the Notes and Sources for the Consumption Section.

**4. Energy Exports:** Energy exports include coal, crude oil, refined petroleum products, natural gas, electricity produced from hydroelectric power, and coal coke. Approximate heat contents (Btu values) are derived using the conversion factors provided in the Conversion Factors section of this publication. For more information on electricity, see the note and sources for imports and exports of electricity in Note 7 of the Notes and Sources for the Consumption Section.

**5. Merchandise Trade Value:** The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory (which includes the 50 United States, the District of Columbia, and Puerto Rico) and the Virgin Islands. The statistics exclude imports into Guam, American Samoa, and other U.S. possessions, as well as shipments between the United States and Puerto Rico and the Virgin Islands, between the United States and other U.S. possessions, and between any of these outlying areas. From January 1981 forward, import data presented are on a customs value basis. All other values are on a free alongside ship (f.a.s.) basis. Monthly data are adjusted for seasonal and working-day variation, if present and identifiable; annual data are unadjusted, and annual totals may not equal sum of monthly totals. Statistics include nonmonetary gold. Statistics exclude Department of Defense Military Program Grant-Aid shipments. "All Other" and "Total" columns include foreign exports (i.e., reexports). The "Energy" columns include mineral fuels, lubricants, and related material. "Imports" represent general imports (i.e., entries for immediate consumption, entries into customs bonded warehouses, and entries for the Strategic Petroleum Reserve). "Trade Balance" is exports minus imports; a positive balance indicates a surplus trade value and a negative balance indicates a deficit trade value. The "All Other" columns are calculated by subtracting "Energy" from "Total."

**6. Degree-Days:** Degree-days are relative measurements of outdoor air temperature. Cooling degree-days are defined as deviations of the mean daily temperature at a sampling station above a base temperature equal to 65 °F by convention. Heating degree-days are deviations of the mean daily

temperature below 65° F. For example, if a weather station recorded a mean daily temperature of 78 °F, cooling degree-days for that station would be 13 (and heating degree-days, 0). A weather station recording a mean daily temperature of 40 °F would report 25 heating degree-days (and 0 cooling degree-days).

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

## Sources

**Merchandise Trade Value:** • 1974 through 1980: U.S. Department of Commerce, Bureau of the Census, "Highlights of U.S. Export and Import Trade," FT990 (January 1982), Appendix for total imports and exports. Energy imports and exports from U.S. Department of Commerce, Bureau of the Census, "Summary of U.S. Export and Import Merchandise Trade," December issues, plus Bureau of the Census reports EA691 "Exports from the Virgin Islands to Foreign Countries," and IA245V "U.S. Imports for Consumption and General Imports into the Virgin Islands."

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

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

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

• Exports—1973 through 1976: Bureau of Mines, *Mineral Industry Surveys*; 1977 through 1982: Energy Information Administration (EIA), *Energy Data Reports*, "Petroleum Statement, Annual"; 1983 forward: EIA, *Petroleum Statement, Monthly*.

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

• Leaded Regular Motor Gasoline—Bureau of Labor Statistics (BLS).

• Residential Heating Oil—EIA, 1983 forward: EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA Form-782B, "Resellers/Retailers' Monthly Petroleum Product Sales Report." Prices prior to 1983 are EIA estimates using data from FEA Form P112-M1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" and EIA Form 9-A, "No. 2 Distillate Price Monitoring Report." See Note 8 in the Notes and Sources for the Price Section for additional information.

• Residential Natural Gas—Annual data 1973 through 1982 from EIA, *Natural Gas Annual*, based on Form EIA-176, "Supply and Distribution of Natural Gas," and predecessors. Annual 1983 and quarterly data are EIA estimates based on the BLS Urban Consumer Price Index for natural gas and are adjusted to conform with final reported annual data. See Note 6 in the Notes and Sources for the Price Section for estimation procedures.

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

• Deflator (The Urban Consumer Price Index)—BLS.

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

## Consumption

Total U.S. energy consumption in April 1985 was 5.8 quadrillion Btu, 1.2 percent below the April 1984 level. Petroleum products accounted for 42.7 percent of the energy consumed in April 1985, while natural gas accounted for 24.0 percent and coal accounted for 23.2 percent.

The transportation sector used 64.7 percent of the petroleum products consumed in April 1985 and the industrial sector used 24.9 percent. Of natural gas consumed, the residential and commercial sector used 45.2 percent; the industrial sector, 34.7 percent; and electric utilities, 17.2 percent. Most of the coal used (79.7 percent) was consumed by electric utilities. The residential and commercial sector used 61.3 percent of total electricity sales, while the industrial sector used 38.7 percent.

Residential and commercial sector consumption was 2.1 quadrillion Btu in April 1985, down 4.0 percent from the level in April 1984. This sector consumed 35.2 percent of the April 1985 total, down from its 36.3-percent share in April 1984.

Industrial sector consumption was 2.1 quadrillion Btu in April 1985, slightly below the April 1984 level. The industrial sector accounted for 36.5 percent of the April 1985 total consumption, up from the industrial sector's 36.1-percent share in April 1984.

Transportation sector consumption of energy was 1.7 quadrillion Btu in April 1985, up 1.0 percent from the April 1984 level. This sector consumed 28.3 percent of the April 1985 total, up from the sector's 27.7-percent share in April 1984.

The electric utilities consumption of energy was an estimated 2.0 quadrillion Btu in April 1985, 2.0 percent higher than in April 1984. Coal contributed 54.6 percent of the energy consumed by electric utilities in April 1985, while nuclear electric power contributed 14.6 percent; hydroelectric power, 14.5 percent; natural gas, 12.1 percent; petroleum products, 3.3 percent; and geothermal, wood, waste, wind, photovoltaic, and solar thermal energy, 0.8 percent.

## Consumption Summary for April 1985 (Quadrillion (10<sup>15</sup>) Btu)

Energy Source	Sector				Total
	Residential and Commercial	Industrial	Transportation	Electric Utilities	
Coal	0.020	0.258	0.000	1.079	1.353
Natural Gas <sup>1</sup>	0.632	0.485	0.040	0.240	1.398
Petroleum Products	0.194	0.621	1.610	0.066	2.490
Hydroelectric Power	0.000	0.003	0.000	0.287	0.290
Nuclear Electric Power	0.000	0.000	0.000	0.289	0.289
Net Imports of Coal Coke	0.000	0.001	0.000	0.000	0.001
Other <sup>2</sup>	0.000	0.000	0.000	0.015	0.015
<b>Primary Consumption</b>	<b>0.846</b>	<b>1.368</b>	<b>1.650</b>	<b>1.976</b>	<b>5.835</b>
Electricity	0.371	0.234	0.001	(0.605)	
Net Energy Consumption	1.216	1.602	1.651		4.465
Electrical System Energy Losses	0.840	0.529	0.002	(1.371)	1.371
<b>Total Energy Consumption</b>	<b>2.056</b>	<b>2.131</b>	<b>1.653</b>		<b>5.835</b>

<sup>1</sup> Includes supplemental gaseous fuels.

<sup>2</sup> Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

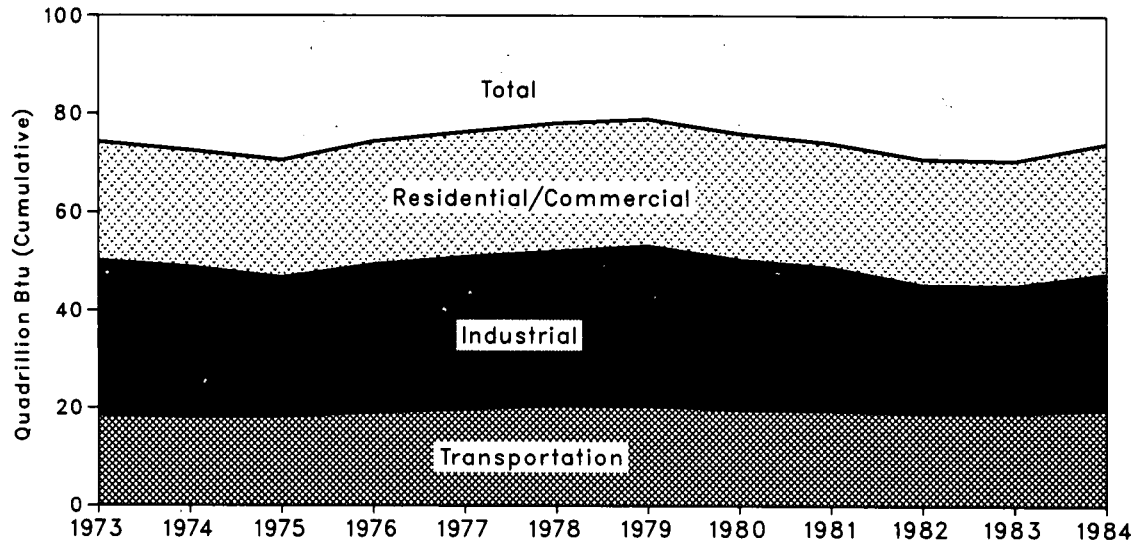
Notes: • Totals may not equal sum of components due to independent rounding and the use of preliminary conversion factors.

• Additional notes and sources are provided on the last four pages of this section.

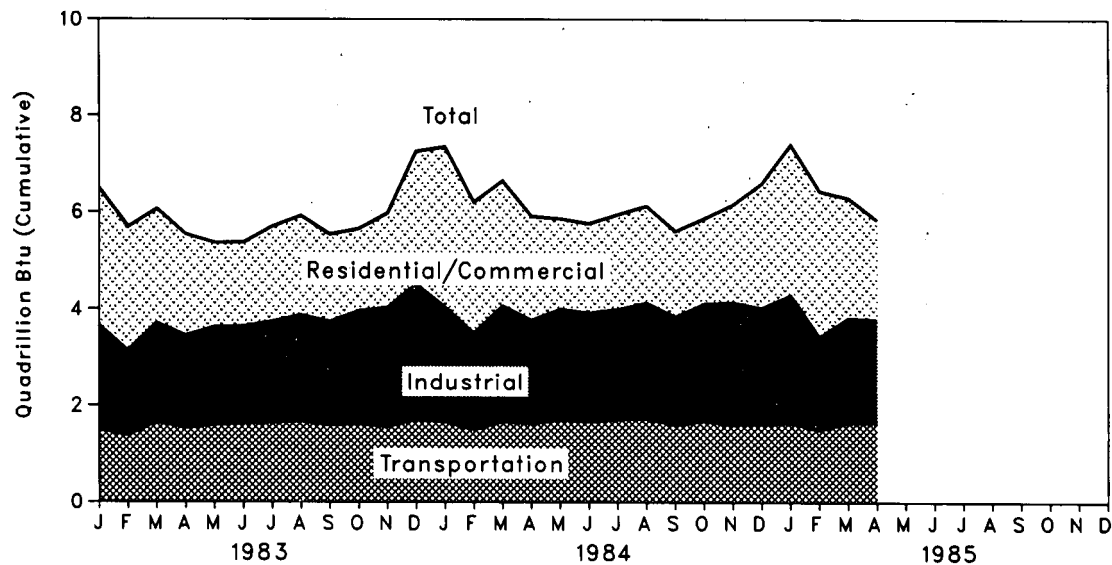
# Consumption

## Consumption of Energy by End-Use Sector

### Yearly



### Monthly



# Consumption

## Consumption of Energy by End-Use Sector

		Residential and Commercial	Industrial	Transportation	Total
Quadrillion (10 <sup>15</sup> ) Btu					
1973	Total	24.147	31.538	18.596	74.288
1974	Total	23.729	30.699	18.113	72.548
1975	Total	23.902	28.409	18.240	70.551
1976	Total	25.020	30.245	19.093	74.366
1977	Total	25.386	31.090	19.808	76.292
1978	Total	26.085	31.415	20.589	78.091
1979	Total	25.809	32.625	20.464	78.900
1980	Total	25.656	30.606	19.693	75.955
1981	Total	25.244	29.252	19.495	73.989
1982	Total	25.632	26.140	19.066	70.842
1983	January	R2.820	R2.156	1.506	6.483
	February	R2.556	R1.751	1.379	5.685
	March	R2.351	R2.046	1.660	6.058
	April	R2.088	R1.907	1.541	5.533
	May	R1.733	R2.021	1.603	5.355
	June	R1.723	R2.000	1.639	5.364
	July	R1.957	R2.091	1.648	5.700
	August	R2.048	R2.193	1.676	5.922
	September	R1.798	R2.141	1.598	5.538
	October	R1.692	R2.342	1.616	5.648
	November	R1.944	R2.459	1.566	5.966
	December	R2.731	R2.801	1.714	7.246
	<b>Total</b>	<b>R25.441</b>	<b>R25.908</b>	<b>19.146</b>	<b>70.497</b>
1984	January	R3.309	R2.365	R1.666	R7.341
	February	R2.697	R1.998	R1.500	R6.194
	March	R2.573	R2.391	R1.673	R6.637
	April	R2.141	R2.134	R1.637	R5.906
	May	R1.869	R2.276	R1.717	R5.858
	June	R1.844	R2.247	R1.673	R5.768
	July	R1.958	R2.270	R1.723	R5.955
	August	R1.996	R2.390	R1.738	R6.129
	September	R1.768	R2.234	R1.609	R5.611
	October	R1.766	R2.418	R1.687	R5.873
	November	R2.017	R2.515	1.619	R6.153
	December	R2.568	R2.392	R1.629	R6.590
	<b>Total</b>	<b>R26.507</b>	<b>R27.630</b>	<b>R19.870</b>	<b>R74.016</b>
1985	January	R3.111	R2.634	1.652	R7.402
	February	R3.001	R1.922	1.511	R6.437
	March	R2.476	R2.160	R1.656	R6.294
	April	2.056	2.131	1.653	5.835
	<b>Year to Date</b>	<b>10.644</b>	<b>8.848</b>	<b>6.472</b>	<b>25.968</b>

R = Revised data.

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

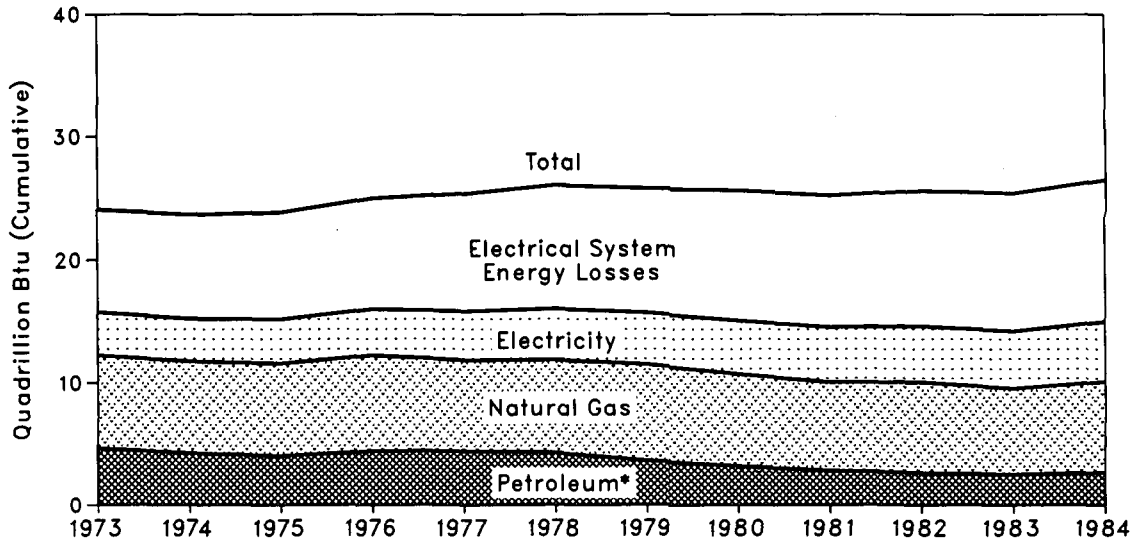
• Totals may not equal sum of components due to independent rounding and the use of preliminary conversion factors after 1981.

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

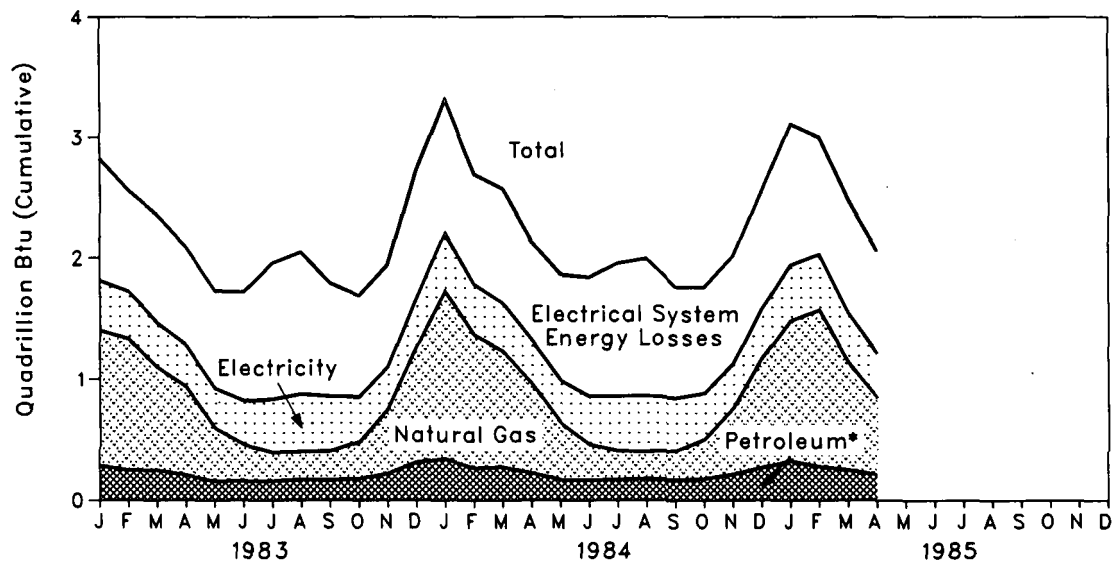
# Consumption

## Consumption of Energy by the Residential and Commercial Sector

Yearly



Monthly



\*Includes coal.

# Consumption

## Consumption of Energy by the Residential and Commercial Sector

		Coal	Natural Gas <sup>1</sup>	Petroleum	Electricity	Electrical System Energy Losses	Total	Year to Date
		Quadrillion (10 <sup>15</sup> ) Btu						
<b>1973</b>	<b>Total</b>	<b>0.259</b>	<b>7.626</b>	<b>4.391</b>	<b>3.495</b>	<b>8.377</b>	<b>24.147</b>	
<b>1974</b>	<b>Total</b>	<b>0.260</b>	<b>7.518</b>	<b>3.996</b>	<b>3.475</b>	<b>8.480</b>	<b>23.729</b>	
<b>1975</b>	<b>Total</b>	<b>0.212</b>	<b>7.581</b>	<b>3.805</b>	<b>3.604</b>	<b>8.700</b>	<b>23.902</b>	
<b>1976</b>	<b>Total</b>	<b>0.206</b>	<b>7.866</b>	<b>4.181</b>	<b>3.747</b>	<b>9.021</b>	<b>25.020</b>	
<b>1977</b>	<b>Total</b>	<b>0.207</b>	<b>7.461</b>	<b>4.206</b>	<b>3.955</b>	<b>9.556</b>	<b>25.386</b>	
<b>1978</b>	<b>Total</b>	<b>0.215</b>	<b>7.624</b>	<b>4.070</b>	<b>4.116</b>	<b>10.061</b>	<b>26.085</b>	
<b>1979</b>	<b>Total</b>	<b>0.188</b>	<b>7.891</b>	<b>3.448</b>	<b>4.184</b>	<b>10.100</b>	<b>25.809</b>	
<b>1980</b>	<b>Total</b>	<b>0.147</b>	<b>7.539</b>	<b>3.035</b>	<b>4.355</b>	<b>10.580</b>	<b>25.656</b>	
<b>1981</b>	<b>Total</b>	<b>0.171</b>	<b>7.242</b>	<b>2.634</b>	<b>4.497</b>	<b>10.700</b>	<b>25.244</b>	
<b>1982</b>	<b>Total</b>	<b>0.189</b>	<b>7.433</b>	<b>2.449</b>	<b>4.566</b>	<b>10.993</b>	<b>25.632</b>	
<b>1983</b>	January	0.021	R1.118	0.266	0.413	1.003	R2.820	R2.820
	February	0.018	R1.087	0.231	0.390	0.831	R2.556	R5.376
	March	0.013	R0.852	0.236	0.365	0.885	R2.351	R7.727
	April	0.018	R0.727	0.190	0.351	0.801	R2.088	R9.815
	May	0.011	R0.441	0.144	0.327	0.810	R1.733	R11.548
	June	0.009	R0.300	0.152	0.359	0.903	R1.723	R13.271
	July	0.014	R0.241	0.144	0.435	1.123	R1.957	R15.228
	August	0.013	R0.233	0.159	0.472	1.171	R2.048	R17.276
	September	0.018	R0.240	0.150	0.450	0.940	R1.798	R19.074
	October	0.019	R0.307	0.159	0.366	0.841	R1.692	R20.766
	November	0.020	R0.531	0.202	0.350	0.841	R1.944	R22.709
	December	0.025	R0.949	0.290	0.402	1.065	R2.731	R25.441
	<b>Total</b>	<b>0.197</b>	<b>R7.025</b>	<b>2.322</b>	<b>4.681</b>	<b>11.215</b>	<b>R25.441</b>	
<b>1984</b>	January	0.024	R1.384	R0.320	0.476	1.105	R3.309	R3.309
	February	0.021	R1.104	0.247	0.418	0.905	R2.697	R6.006
	March	0.015	R0.961	0.261	0.394	0.942	R2.573	R8.579
	April	0.022	R0.742	R0.207	0.360	0.810	R2.141	R10.720
	May	0.013	R0.470	R0.159	0.355	0.873	R1.869	R12.589
	June	0.010	R0.294	R0.159	0.395	0.986	R1.844	R14.434
	July	0.016	R0.237	R0.158	0.449	1.098	R1.958	R16.392
	August	0.015	R0.227	R0.164	0.456	1.134	R1.996	R18.388
	September	0.020	R0.240	R0.152	0.433	0.923	R1.768	R20.156
	October	0.016	R0.327	R0.165	0.377	0.880	R1.766	R21.922
	November	0.017	R0.542	0.200	0.372	0.886	R2.017	R23.939
	December	0.022	R0.903	0.250	0.410	0.983	R2.568	R26.507
	<b>Total</b>	<b>0.213</b>	<b>R7.431</b>	<b>R2.443</b>	<b>4.895</b>	<b>11.524</b>	<b>R26.507</b>	
<b>1985</b>	January	R0.019	R1.157	0.309	0.457	1.169	R3.111	R3.111
	February	R0.017	R1.293	0.263	0.458	0.971	R3.001	R6.112
	March	R0.012	R0.893	0.242	R0.400	R0.929	R2.476	R8.588
	April	0.020	0.632	0.194	0.371	0.840	2.056	10.644
	<b>Year to Date</b>	<b>0.068</b>	<b>3.975</b>	<b>1.008</b>	<b>1.685</b>	<b>3.908</b>	<b>10.644</b>	

<sup>1</sup>Includes supplemental gaseous fuels.

R=Revised data.

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

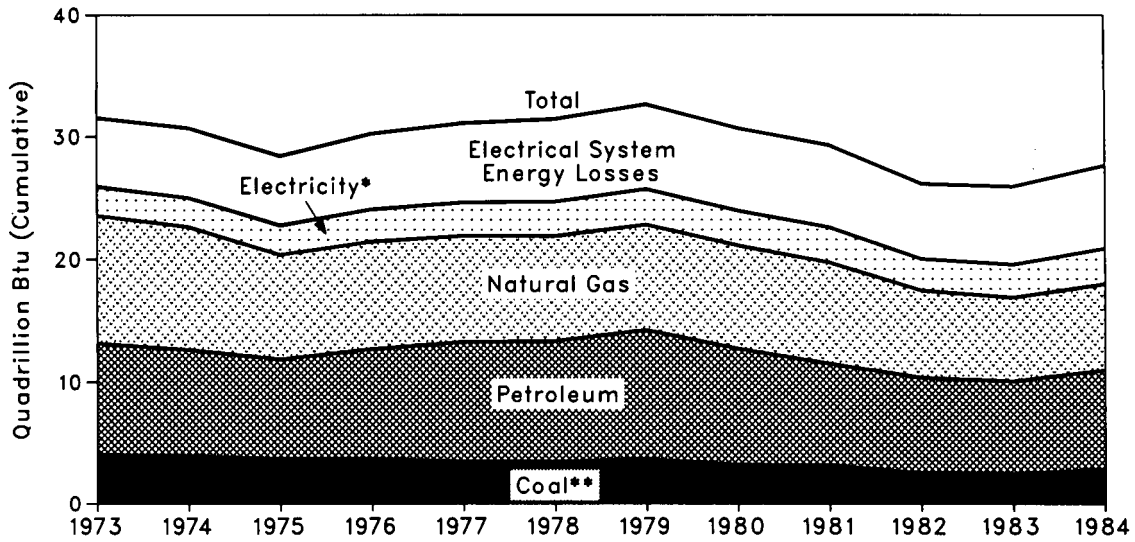
• Totals may not equal sum of components due to independent rounding.

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

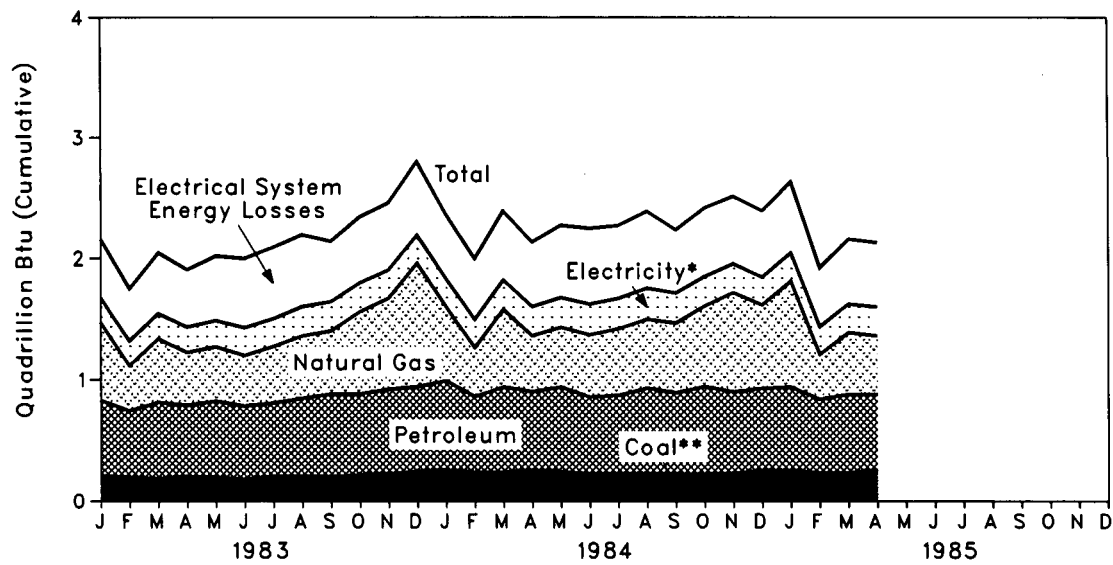
# Consumption

## Consumption of Energy by the Industrial Sector

Yearly



Monthly



\*Includes hydroelectric power.  
 \*\*Includes net imports of coal coke.



# Consumption

## Consumption of Energy by the Industrial Sector

		Coal	Natural Gas <sup>1</sup>	Petroleum	Hydro-electric Power	Net Imports of Coal Coke	Electricity	Electrical System Energy Losses	Total	Year to Date
Quadrillion (10 <sup>15</sup> ) Btu										
<b>1973</b>	<b>Total</b>	<b>4.059</b>	<b>10.388</b>	<b>9.113</b>	<b>0.035</b>	<b>(0.008)</b>	<b>2.341</b>	<b>5.611</b>	<b>31.538</b>	
<b>1974</b>	<b>Total</b>	<b>3.872</b>	<b>10.003</b>	<b>8.698</b>	<b>0.033</b>	<b>0.056</b>	<b>2.337</b>	<b>5.700</b>	<b>30.699</b>	
<b>1975</b>	<b>Total</b>	<b>3.669</b>	<b>8.532</b>	<b>8.151</b>	<b>0.032</b>	<b>0.014</b>	<b>2.346</b>	<b>5.665</b>	<b>28.409</b>	
<b>1976</b>	<b>Total</b>	<b>3.663</b>	<b>8.761</b>	<b>9.018</b>	<b>0.033</b>	<b>0.000</b>	<b>2.573</b>	<b>6.198</b>	<b>30.245</b>	
<b>1977</b>	<b>Total</b>	<b>3.456</b>	<b>8.636</b>	<b>9.786</b>	<b>0.033</b>	<b>0.015</b>	<b>2.682</b>	<b>6.484</b>	<b>31.090</b>	
<b>1978</b>	<b>Total</b>	<b>3.315</b>	<b>8.539</b>	<b>9.890</b>	<b>0.032</b>	<b>0.125</b>	<b>2.761</b>	<b>6.755</b>	<b>31.415</b>	
<b>1979</b>	<b>Total</b>	<b>3.594</b>	<b>8.549</b>	<b>10.576</b>	<b>0.034</b>	<b>0.063</b>	<b>2.873</b>	<b>6.936</b>	<b>32.625</b>	
<b>1980</b>	<b>Total</b>	<b>3.156</b>	<b>8.394</b>	<b>9.524</b>	<b>0.033</b>	<b>(0.035)</b>	<b>2.781</b>	<b>6.752</b>	<b>30.606</b>	
<b>1981</b>	<b>Total</b>	<b>3.158</b>	<b>8.257</b>	<b>8.295</b>	<b>0.033</b>	<b>(0.016)</b>	<b>2.817</b>	<b>6.707</b>	<b>29.252</b>	
<b>1982</b>	<b>Total</b>	<b>2.552</b>	<b>7.116</b>	<b>7.798</b>	<b>0.033</b>	<b>(0.022)</b>	<b>2.542</b>	<b>6.121</b>	<b>26.140</b>	
<b>1983</b>	January	0.211	R0.645	0.620	0.003	(0.001)	0.198	0.480	R2.156	R2.156
	February	0.196	R0.374	0.548	0.003	(0.001)	0.201	0.430	R1.751	R3.907
	March	0.187	R0.527	0.626	0.003	(0.001)	0.206	0.498	R2.046	R5.953
	April	0.205	R0.438	0.586	0.003	(0.002)	0.207	0.471	R1.907	R7.860
	May	0.198	R0.452	0.625	0.003	(0.002)	0.214	0.529	R2.021	R9.881
	June	0.182	R0.420	0.601	0.003	(0.001)	0.226	0.568	R2.000	R11.881
	July	0.206	R0.470	0.602	0.003	(0.002)	0.227	0.585	R2.091	R13.972
	August	0.209	R0.518	0.638	0.002	(0.001)	0.238	0.590	R2.193	R16.165
	September	0.203	R0.524	0.679	0.002	(0.001)	0.238	0.496	R2.141	R18.306
	October	0.217	R0.681	0.666	0.002	(0.001)	0.235	0.541	R2.342	R20.648
	November	0.227	R0.752	0.695	0.002	(0.001)	0.230	0.553	R2.459	R23.107
	December	0.249	R1.019	0.696	0.002	(0.003)	0.229	0.607	R2.801	R25.908
	<b>Total</b>	<b>2.490</b>	<b>R6.821</b>	<b>7.583</b>	<b>0.033</b>	<b>(0.016)</b>	<b>2.648</b>	<b>6.349</b>	<b>R25.908</b>	
<b>1984</b>	January	0.258	R0.615	R0.732	0.003	0.001	0.228	0.528	R2.365	R2.365
	February	0.238	R0.406	R0.621	0.003	0.002	0.230	0.498	R1.998	R4.363
	March	0.240	R0.643	R0.701	0.003	(0.001)	0.238	0.568	R2.391	R6.754
	April	0.255	R0.464	R0.647	0.003	0.000	0.236	0.530	R2.134	R8.889
	May	0.246	R0.497	R0.693	0.003	(0.001)	0.241	0.594	R2.276	R11.164
	June	0.226	R0.517	R0.632	0.003	(0.002)	0.249	0.622	R2.247	R13.411
	July	0.228	R0.553	R0.643	0.003	(0.001)	0.245	0.599	R2.270	R15.681
	August	0.231	R0.570	R0.701	0.002	(0.002)	0.254	0.633	R2.390	R18.071
	September	0.224	R0.579	R0.667	0.002	0.000	0.243	0.519	R2.234	R20.304
	October	0.223	R0.665	R0.723	0.002	(0.003)	0.242	0.565	R2.418	R22.722
	November	0.233	R0.821	R0.669	0.002	(0.003)	0.234	0.558	R2.515	R25.238
	December	0.257	R0.691	R0.671	0.002	(0.001)	0.227	0.546	R2.392	R27.630
	<b>Total</b>	<b>2.860</b>	<b>R7.022</b>	<b>R8.100</b>	<b>0.033</b>	<b>(0.011)</b>	<b>2.868</b>	<b>6.759</b>	<b>R27.630</b>	
<b>1985</b>	January	R0.254	R0.875	R0.685	0.003	0.000	0.229	0.587	R2.634	R2.634
	February	R0.234	R0.372	R0.603	0.003	0.001	0.227	0.482	R1.922	R4.557
	March	R0.235	R0.513	R0.645	0.003	0.000	R0.230	R0.534	R2.160	R6.717
	April	0.258	0.485	0.621	0.003	0.001	0.234	0.529	2.131	8.848
	<b>Year to Date</b>	<b>0.981</b>	<b>2.246</b>	<b>2.555</b>	<b>0.012</b>	<b>0.003</b>	<b>0.920</b>	<b>2.132</b>	<b>8.848</b>	

<sup>1</sup>Includes supplemental gaseous fuels.

R=Revised data.

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

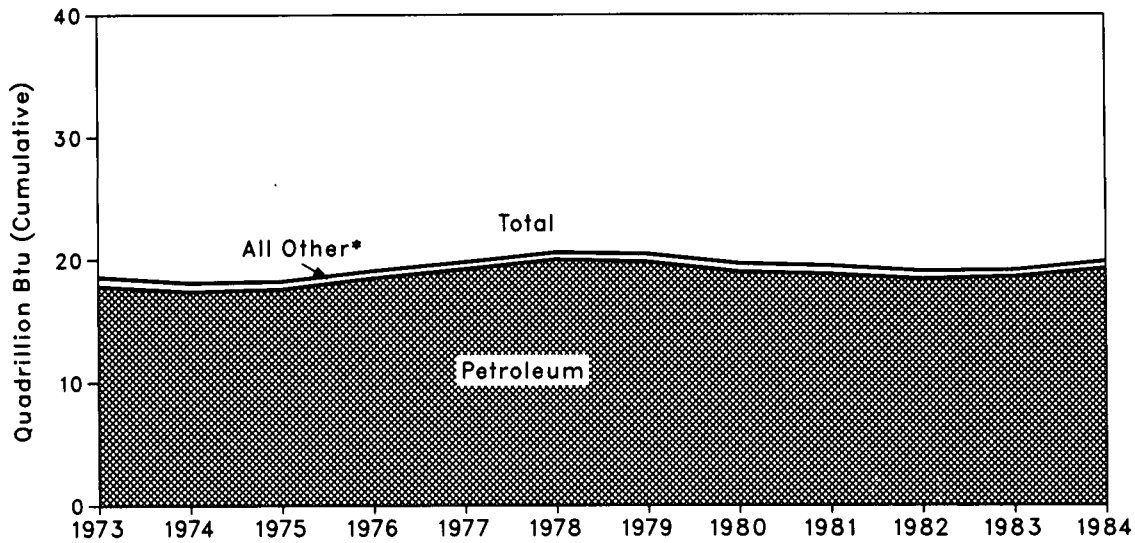
• Totals may not equal sum of components due to independent rounding.

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

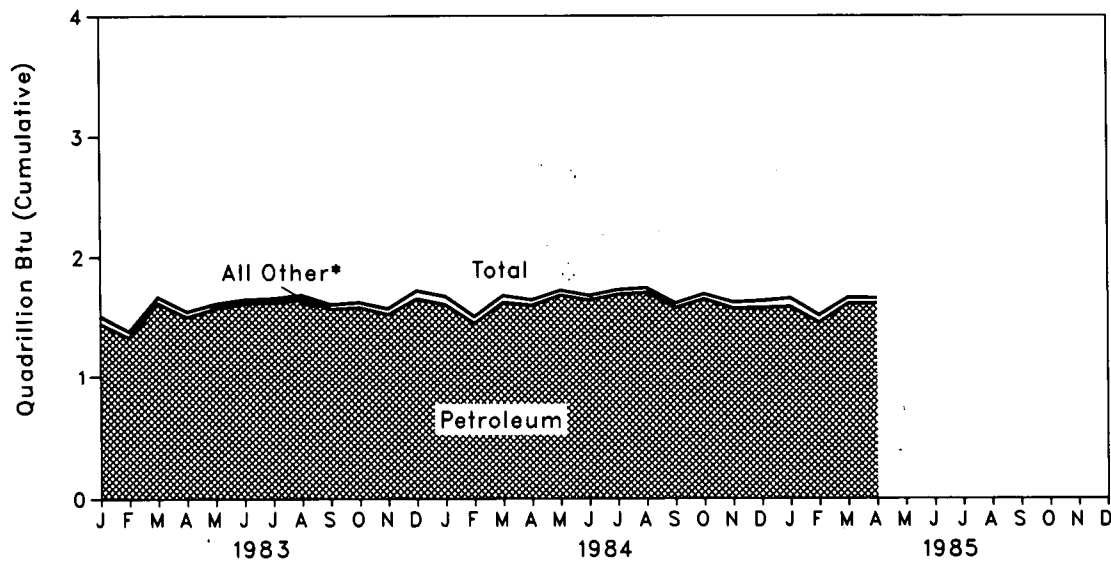
# Consumption

## Consumption of Energy by the Transportation Sector

### Yearly



### Monthly



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

# Consumption

## Consumption of Energy by the Transportation Sector

		Coal	Natural Gas <sup>1</sup>	Petroleum	Electricity	Electrical System Energy Losses	Total	Year to Date
		Quadrillion (10 <sup>15</sup> ) Btu						
<b>1973</b>	<b>Total</b>	<b>0.003</b>	<b>0.743</b>	<b>17.821</b>	<b>0.009</b>	<b>0.020</b>	<b>18.596</b>	
<b>1974</b>	<b>Total</b>	<b>0.002</b>	<b>0.685</b>	<b>17.396</b>	<b>0.009</b>	<b>0.022</b>	<b>18.113</b>	
<b>1975</b>	<b>Total</b>	<b>0.001</b>	<b>0.595</b>	<b>17.610</b>	<b>0.010</b>	<b>0.025</b>	<b>18.240</b>	
<b>1976</b>	<b>Total</b>	( <sup>2</sup> )	<b>0.559</b>	<b>18.499</b>	<b>0.010</b>	<b>0.025</b>	<b>19.093</b>	
<b>1977</b>	<b>Total</b>	( <sup>2</sup> )	<b>0.543</b>	<b>19.230</b>	<b>0.010</b>	<b>0.025</b>	<b>19.808</b>	
<b>1978</b>	<b>Total</b>	( <sup>2</sup> )	<b>0.539</b>	<b>20.019</b>	<b>0.009</b>	<b>0.022</b>	<b>20.589</b>	
<b>1979</b>	<b>Total</b>	( <sup>2</sup> )	<b>0.612</b>	<b>19.817</b>	<b>0.010</b>	<b>0.025</b>	<b>20.464</b>	
<b>1980</b>	<b>Total</b>	( <sup>2</sup> )	<b>0.648</b>	<b>19.009</b>	<b>0.011</b>	<b>0.026</b>	<b>19.693</b>	
<b>1981</b>	<b>Total</b>	( <sup>2</sup> )	<b>0.657</b>	<b>18.800</b>	<b>0.011</b>	<b>0.026</b>	<b>19.495</b>	
<b>1982</b>	<b>Total</b>	( <sup>2</sup> )	<b>0.613</b>	<b>18.417</b>	<b>0.011</b>	<b>0.026</b>	<b>19.066</b>	
<b>1983</b>	January	( <sup>2</sup> )	0.059	1.444	0.001	0.002	1.506	1.506
	February	( <sup>2</sup> )	0.049	1.327	0.001	0.002	1.379	2.885
	March	( <sup>2</sup> )	0.047	1.609	0.001	0.002	1.660	4.545
	April	( <sup>2</sup> )	0.041	1.497	0.001	0.002	1.541	6.086
	May	( <sup>2</sup> )	0.034	1.566	0.001	0.002	1.603	7.688
	June	( <sup>2</sup> )	0.029	1.607	0.001	0.002	1.639	9.327
	July	( <sup>2</sup> )	0.031	1.614	0.001	0.002	1.648	10.975
	August	( <sup>2</sup> )	0.033	1.640	0.001	0.002	1.676	12.651
	September	( <sup>2</sup> )	0.032	1.563	0.001	0.002	1.598	14.249
	October	( <sup>2</sup> )	0.037	1.576	0.001	0.002	1.616	15.866
	November	( <sup>2</sup> )	0.045	1.517	0.001	0.002	1.566	17.431
	December	( <sup>2</sup> )	0.066	1.645	0.001	0.002	1.714	19.146
	<b>Total</b>	( <sup>2</sup> )	<b>0.504</b>	<b>18.605</b>	<b>0.011</b>	<b>0.026</b>	<b>19.146</b>	
<b>1984</b>	January	( <sup>2</sup> )	R0.067	R1.596	0.001	0.002	R1.666	R1.666
	February	( <sup>2</sup> )	R0.052	R1.445	0.001	0.002	R1.500	R3.166
	March	( <sup>2</sup> )	R0.055	R1.615	0.001	0.002	R1.673	R4.839
	April	( <sup>2</sup> )	R0.043	R1.591	0.001	0.002	R1.637	R6.475
	May	( <sup>2</sup> )	0.037	R1.677	0.001	0.002	R1.717	R8.192
	June	( <sup>2</sup> )	0.033	R1.637	0.001	0.002	R1.673	R9.866
	July	( <sup>2</sup> )	0.034	R1.686	0.001	0.002	R1.723	R11.589
	August	( <sup>2</sup> )	R0.035	R1.700	0.001	0.002	R1.738	R13.327
	September	( <sup>2</sup> )	R0.034	R1.572	0.001	0.002	R1.609	R14.935
	October	( <sup>2</sup> )	0.038	R1.646	0.001	0.002	R1.687	R16.622
	November	( <sup>2</sup> )	0.048	R1.568	0.001	0.002	1.619	R18.241
	December	( <sup>2</sup> )	R0.055	R1.571	0.001	0.002	R1.629	R19.870
	<b>Total</b>	( <sup>2</sup> )	<b>R0.531</b>	<b>R19.303</b>	<b>0.011</b>	<b>0.026</b>	<b>R19.870</b>	
<b>1985</b>	January	( <sup>2</sup> )	0.068	1.581	0.001	0.002	1.652	1.652
	February	( <sup>2</sup> )	0.056	1.452	0.001	0.002	1.511	3.163
	March	( <sup>2</sup> )	R0.048	1.605	0.001	0.002	R1.656	R4.819
	April	( <sup>2</sup> )	0.040	1.610	0.001	0.002	1.653	6.472
	<b>Year to Date</b>	( <sup>2</sup> )	<b>0.212</b>	<b>6.247</b>	<b>0.004</b>	<b>0.009</b>	<b>6.472</b>	

<sup>1</sup>Includes supplemental gaseous fuels.

<sup>2</sup>Since 1976, the amount of coal consumed by the transportation sector has been negligible.

R = Revised data.

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

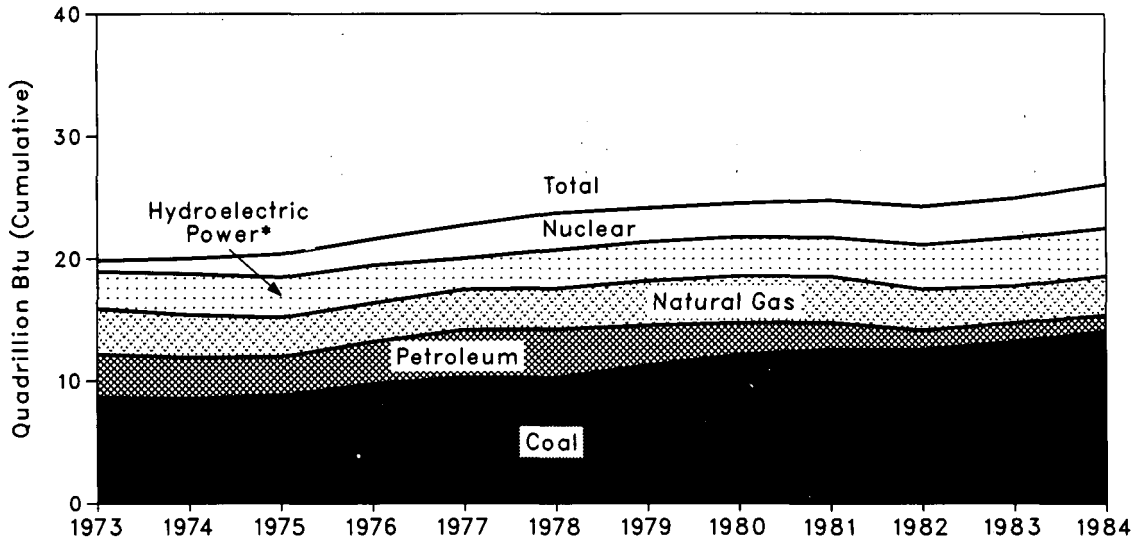
• Totals may not equal sum of components due to independent rounding.

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

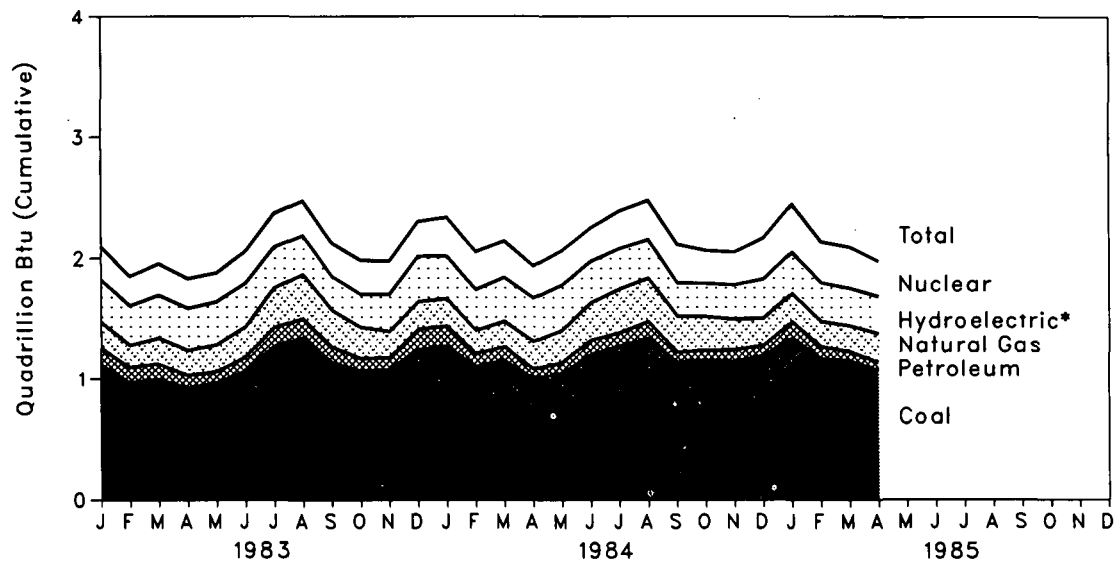
# Consumption

## Energy Input at Electric Utilities

Yearly



Monthly



\*Includes other.

# Consumption

## Energy Input at Electric Utilitles

		Coal	Natural Gas <sup>1</sup>	Petro-leum <sup>2</sup>	Hydro-electric Power <sup>3</sup>	Nuclear Electric Power	Other <sup>4</sup>	Total	Year to Date
		Quadrillion (10 <sup>15</sup> ) Btu							
<b>1973</b>	<b>Total</b>	<b>8.658</b>	<b>3.748</b>	<b>3.515</b>	<b>2.975</b>	<b>0.910</b>	<b>0.046</b>	<b>19.852</b>	
<b>1974</b>	<b>Total</b>	<b>8.534</b>	<b>3.519</b>	<b>3.365</b>	<b>3.276</b>	<b>1.272</b>	<b>0.056</b>	<b>20.022</b>	
<b>1975</b>	<b>Total</b>	<b>8.786</b>	<b>3.240</b>	<b>3.166</b>	<b>3.187</b>	<b>1.900</b>	<b>0.072</b>	<b>20.350</b>	
<b>1976</b>	<b>Total</b>	<b>9.720</b>	<b>3.152</b>	<b>3.477</b>	<b>3.032</b>	<b>2.111</b>	<b>0.081</b>	<b>21.574</b>	
<b>1977</b>	<b>Total</b>	<b>10.262</b>	<b>3.284</b>	<b>3.901</b>	<b>2.482</b>	<b>2.702</b>	<b>0.082</b>	<b>22.713</b>	
<b>1978</b>	<b>Total</b>	<b>10.238</b>	<b>3.297</b>	<b>3.987</b>	<b>3.110</b>	<b>3.024</b>	<b>0.068</b>	<b>23.724</b>	
<b>1979</b>	<b>Total</b>	<b>11.260</b>	<b>3.613</b>	<b>3.283</b>	<b>3.107</b>	<b>2.776</b>	<b>0.089</b>	<b>24.128</b>	
<b>1980</b>	<b>Total</b>	<b>12.123</b>	<b>3.810</b>	<b>2.634</b>	<b>3.085</b>	<b>2.739</b>	<b>0.114</b>	<b>24.505</b>	
<b>1981</b>	<b>Total</b>	<b>12.583</b>	<b>3.768</b>	<b>2.202</b>	<b>3.072</b>	<b>3.008</b>	<b>0.127</b>	<b>24.760</b>	
<b>1982</b>	<b>Total</b>	<b>12.582</b>	<b>3.342</b>	<b>1.568</b>	<b>3.528</b>	<b>3.131</b>	<b>0.108</b>	<b>24.259</b>	
<b>1983</b>	January	1.128	0.215	0.137	0.334	0.273	0.011	2.097	2.097
	February	0.967	0.182	0.134	0.321	0.242	0.008	1.855	3.952
	March	0.996	0.214	0.133	0.345	0.261	0.009	1.958	5.909
	April	0.921	0.209	0.110	0.341	0.244	0.009	1.833	7.743
	May	0.965	0.225	0.097	0.349	0.240	0.007	1.883	9.626
	June	1.064	0.255	0.119	0.348	0.263	0.009	2.059	11.685
	July	1.276	0.324	0.156	0.325	0.279	0.012	2.373	14.058
	August	1.348	0.363	0.158	0.304	0.286	0.015	2.474	16.531
	September	1.146	0.307	0.123	0.264	0.273	0.014	2.127	18.658
	October	1.071	0.259	0.106	0.253	0.281	0.015	1.986	20.644
	November	1.082	0.221	0.099	0.290	0.273	0.013	1.977	22.621
	December	1.249	0.225	0.171	0.363	0.287	0.011	2.307	24.929
	<b>Total</b>	<b>13.213</b>	<b>2.998</b>	<b>1.544</b>	<b>3.838</b>	<b>3.203</b>	<b>0.133</b>	<b>24.929</b>	
<b>1984</b>	January	1.278	0.221	0.169	0.341	0.320	0.011	2.340	2.340
	February	1.109	0.193	0.108	0.322	0.310	0.013	2.055	4.395
	March	1.157	0.212	0.115	0.348	0.298	0.015	2.146	6.540
	April	1.009	0.227	0.081	0.343	0.264	0.014	1.938	8.478
	May	1.050	0.272	0.090	0.357	0.282	0.014	2.066	10.544
	June	1.208	0.306	0.121	0.330	0.276	0.013	2.255	12.799
	July	1.280	0.359	0.111	0.321	0.308	0.013	2.394	15.193
	August	1.345	0.360	0.137	0.299	0.322	0.016	2.480	17.673
	September	1.146	0.299	0.083	0.259	0.318	0.015	2.120	19.793
	October	1.161	0.278	0.084	0.258	0.270	0.016	2.068	21.861
	November	1.150	0.252	0.100	0.267	0.268	0.016	2.053	23.914
	December	1.200	0.224	0.086	0.305	0.337	0.018	2.169	26.083
	<b>Total</b>	<b>14.094</b>	<b>3.205</b>	<b>1.286</b>	<b>3.751</b>	<b>3.573</b>	<b>0.174</b>	<b>26.083</b>	
<b>1985</b>	January	1.350	0.232	0.132	0.320	0.395	0.018	2.446	2.446
	February	1.177	0.207	0.101	0.304	0.336	0.016	2.140	4.586
	March	1.160	0.212	0.077	0.290	0.339	0.018	2.096	6.682
	April	1.079	0.240	0.066	0.287	0.289	0.015	1.976	8.658
	<b>Year to Date</b>	<b>4.765</b>	<b>0.891</b>	<b>0.376</b>	<b>1.201</b>	<b>1.358</b>	<b>0.067</b>	<b>8.658</b>	

<sup>1</sup>Includes supplemental gaseous fuels.

<sup>2</sup>Includes petroleum products reported as "oil consumed in steam plants" through 1979 and "heavy oil" from 1980 forward, which are assumed to be residual fuel oil; petroleum products reported as "oil consumed in gas turbine and internal combustion engine plants" through 1979 and "light oil" from 1980 forward, which are assumed to be distillate fuel oil and kerosene; and petroleum coke.

<sup>3</sup>Includes net imports of electricity.

<sup>4</sup>Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

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

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

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

## Notes and Sources for the Consumption Section

**1. Total Energy Consumed:** Total energy consumed includes coal, natural gas (including supplemental gaseous fuels), refined petroleum products supplied, electric utility and industrial generation of hydroelectric power, net imports of electricity generated from hydroelectric power, electricity generated from nuclear power, and electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems. Data do not include geothermal, wood, waste, wind, photovoltaic, or solar thermal energy sources except that consumed by electric utilities.

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

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

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

**4. Coal:** Coal is anthracite, bituminous coal, (including sub-bituminous coal), and lignite.

*Sources:*

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

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

*Sources:*

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

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

*Sources for petroleum products supplied by individual products are:*

- 1973 through 1975: DOI, BOM, *Mineral Industry Surveys*, "Petroleum Statement, Annual."
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual."
- 1981 through 1983: EIA, *Petroleum Supply Annual*.
- 1984 forward: EIA, *Petroleum Supply Monthly*.

Specific petroleum products' end-use allocation procedures follow:

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

— **Electric Utility Sector, All Periods.**

Monthly and annual consumption in 1973 through 1979 is assumed to be the amount of oil (minus small amounts of kerosene and kerosene-type jet fuel deliveries) reported as consumed in internal combustion and gas turbine engine plants. From January 1980, electric utility consumption of distillate fuel is assumed to be the petroleum products reported as "light oil" (minus small amounts of kerosene deliveries through 1982) consumed at utilities.

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

— **Non-Electric Utility Sectors, Annual Estimates Through 1983.**

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

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

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

## Notes and Sources for the Consumption Section (continued)

### 6. Petroleum (continued):

#### • Distillate Fuel (continued)

##### — *Non-Electric Utility Sectors, Annual Estimates Through 1983 (cont'd).*

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

##### — *Non-Electric Utility Sectors, Monthly Estimates Through 1983.*

- Residential and commercial sector monthly consumption is estimated by allocating the annual sector estimates to months in proportion to each month's share of the year's sales of No. 2 heating oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation from 1973 through 1980 and the American Petroleum Institute since January 1981.
- The transportation sector highway use portion is allocated into the months in proportion to each month's share of the year's total sales for highway use as reported by the Federal Highway Administration's Table MF-25, "Private and Commercial Highway Use of Special Fuels by Months." The remaining transportation use of distillate fuel (i.e., for railroads, vessel bunkering, and military use) is evenly distributed over the months, adjusted for the number of days per month.
- Industrial sector monthly estimates are made by subtracting the residential and commercial, transportation, and electric utility sector estimates from each month's total distillate fuel supplied.

##### — *Non-Electric Utility Sectors, 1984 Forward.*

Each month's non-electric utility consumption subtotal is disaggregated into the major end-use sectors in proportion to the shares each sector held of the non-electric utility subtotal in the same month in 1983.

- **Jet Fuel**—Through 1982, small amounts of kerosene-type jet fuel were consumed by the electric utility sector. Kerosene-type jet fuel deliveries to electric utilities as reported on the FERC-423 (formerly FPC-423) were used as estimates of this consumption. All remaining jet fuel (kerosene-type and naphtha-type) is consumed by the transportation sector.
- **Kerosene**—Total product supplied monthly is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" ("Deliveries") reports (based primarily on data collected by Form EIA-821, previously Form EIA-172) as follows:
  - Residential sector deliveries are directly from the "Deliveries" reports for 1979 through 1983. Deliveries for 1983 are used as estimates for 1984 forward. Prior to 1979, each year's deliveries category called "heating" is split into residential,

commercial, and industrial in proportion to the 1979 shares;

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

#### • Liquefied Petroleum Gases (LPG)

- 1973 through 1982: the annual shares of LPG's total consumption that are estimated to be consumed by each end-use sector are applied to each month's total LPG consumption to create monthly end-use consumption estimates. The annual end-use shares are calculated in the following manner:
  - Sales of LPG to the residential and commercial sector are converted from thousand gallons per year to thousand barrels per year and are assumed to be the annual consumption of LPG by the sector;
  - The quantity of LPG sold each year that is consumed in internal combustion engines is allocated between the transportation and industrial sectors according to a 5-year moving average of the percentage of carburetors sold to each end-use category. The proportions range from 31 percent transportation and 69 percent industrial in 1973 to 52 percent transportation and 48 percent industrial in 1982.
  - LPG consumed annually by the industrial sector is estimated as the difference between LPG's total supplied and the estimated consumption by the sum of the residential and commercial sector and the transportation sector. The industrial sector includes LPG used by chemical plants as raw materials or solvents and for use in the production of synthetic rubber; refinery fuel use; use as synthetic natural gas feedstock and use in secondary recovery projects; all farm use; LPG sold to gas utility companies for distribution through the mains; and a portion of the use of LPG as an internal combustion engine fuel.

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

- 1983 forward: Because the collection of data under Form EIA-174 was discontinued after data year 1982, the 1982 annual end-use shares based on the 1982 sales data are applied for all succeeding periods to estimate LPG end-use consumption.

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

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

## Notes and Sources for the Consumption Section (continued)

### 6. Petroleum (continued):

- **Motor Gasoline**—Total product supplied monthly is allocated to the major end-use sectors in proportion to aggregations of annual sales categories formed from the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Tables MF-21, MF-24, and MF-25, as follows:

- Commercial sales are the sum of sales for public non-highway use, miscellaneous use, and unclassified use;
- Industrial sales are the sum of sales for agriculture, construction, and industrial and commercial use as classified in the *Highway Statistics*; and
- Transportation sales are the sum of sales for highway use (minus the sales of special fuels, which are primarily diesel fuel and are accounted for in the transportation sector of distillate fuel) and sales for marine use.

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

#### • Residual Fuel

##### — *Electric Utility Sector, All Periods.*

Monthly and annual consumption 1973 through 1979 is assumed to be the amount of oil reported as consumed in steam-electric power plants. From January 1980, electric utility consumption of residual fuel is assumed to be the petroleum products reported as "heavy oil" consumed at utilities.

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

##### — *Non-Electric Utility Sectors, Annual Estimates Through 1983.*

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

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

##### — *Non-Electric Utility Sectors, Monthly Estimates Through 1983.*

- Commercial sector monthly consumption is estimated by allocating the annual commercial sector estimates to months in proportion to each month's share of the year's sales of No. 2 heating oil as reported in the "Monthly Report of Heating Oil Sales" by the Ethyl Corporation for 1973 through 1980 and the American Petroleum Institute since January 1981.

- Transportation sector monthly estimates are made by evenly distributing the annual sector estimate over the months, adjusted for the number of days per month.

- Industrial sector monthly estimates are made by subtracting the commercial, transportation, and electric utility sector estimates from each month's total residual fuel supplied.

##### — *Non-Electric Utility Sectors, 1984 Forward.*

Each month's non-electric utility consumption subtotal is disaggregated into the major end-use sectors in proportion to the shares each sector held of the non-electric utility subtotal in the same month in 1983.

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

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

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

#### *Sources for electric utilities sector:*

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

#### *Sources for industrial sector:*

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

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

#### *Note for imports and exports of electricity:*

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

#### *Sources for imports and exports of electricity:*

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

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



## Notes and Sources for the Consumption Section (continued)

### 8. Nuclear Electric Power:

#### Sources:

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

**9. Net Imports of Coal Coke:** Net imports means imports minus exports, and the parentheses indicate that exports are greater than imports.

#### Sources:

- 1973 through 1975: DOI, BOM, *Minerals Yearbook*, "Coke and Coal Chemicals," chapter.
- 1976 through 1980: EIA, *Energy Data Report*, "Coke and Coal Chemicals," annual.
- 1981: EIA, *Energy Data Report*, "Coke Plant Report," quarterly.
- 1982 forward: EIA, *Quarterly Coal Report*.

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

Sources: same as Note 8 above, for Nuclear Electric Power.

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

#### Sources of sales data:

- 1973 through 1976: FPC, Form 5, "Monthly Statement of Electric Operating Revenue and Income."
- 1977 through February 1980: EIA, FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income."
- March 1980 through December 1982: EIA, FERC Form 5, "Electric Utility Company Monthly Statement."
- January 1983 forward: EIA, EIA Form 826, "Electric Utility Company Monthly Statement."

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

## Petroleum\*

Domestic crude oil production during June 1985 was estimated to be 9.0 million barrels per day, virtually the same as in the previous month, but 1.3 percent higher than the rate in June 1984. Crude oil production during the first 6 months of 1985 was estimated to be 8.9 million barrels per day, 0.9 percent more than the first-half 1984 production average.

Total petroleum imports averaged 4.8 million barrels per day in June 1985, 15.5 percent less than the May 1985 rate and 11.9 percent less than the June 1984 rate. Total petroleum imports during the first half of 1985 averaged 4.8 million barrels per day, 13.2 percent less than the average imports during the first half of 1984.

In June 1985, 15.4 million barrels per day of petroleum products were supplied for domestic use, 0.6 percent below the level in May 1985 and 2.2 percent below the level of the previous June. Motor gasoline accounted for 45.8 percent of the total; distillate fuel oil, 17.6 percent; and residual fuel oil, 5.6 percent.

During the first 6 months of 1985, 15.6 million barrels per day of petroleum products were supplied, 1.7 percent less than the average of 15.9 million barrels per day during the first 6 months of 1984. Motor gasoline was 43.3 percent of the total products supplied during the first half of 1985, while distillate fuel oil was 19.1 percent, and residual fuel oil was 7.8 percent, of the total.

Motor gasoline supplied during June 1985 averaged 7.0 million barrels per day, slightly

above the rate in May 1985 but 0.9 percent below the rate of the previous June. During the first half of 1985, an average of 6.8 million barrels per day of motor gasoline were supplied, 2.0 percent more than during the first half of 1984. Stocks of motor gasoline totaled 217 million barrels at the end of June 1985, the same level as in the previous month, but 29 million barrels below the level 1 year earlier.

In June 1985, 2.7 million barrels of distillate fuel oil were supplied per day, 4.2 percent higher than the May 1985 rate and 4.5 percent higher than the June 1984 rate. An average of 3.0 million barrels per day of distillate fuel oil were supplied during the first half of 1985, 0.3 percent less than during the first half of 1984. Distillate fuel oil ending stocks for June 1985 were 109 million barrels, 4 million barrels higher than the stocks level of the previous month but 4 million barrels lower than June 1984 ending stocks level.

Residual fuel oil supplied in June 1985 averaged 0.9 million barrels per day, 31.4 percent lower than in May 1985 and 35.9 percent lower than the June 1984 rate. The first half of 1985 average of residual fuel oil supplied was 1.2 million barrels per day, 20.4 percent less than the first-half 1984 average. Residual fuel oil stocks measured 41 million barrels at the end of June 1985, 1 million barrels less than the stocks level of the previous month and 6 million barrels less than the ending stocks level in June 1984.

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

# Petroleum

## Crude Oil<sup>1</sup> and Petroleum Products Overview

	Field Production			Stock Withdrawal <sup>2</sup>		Petroleum Products Supplied	Ending Stocks <sup>3</sup>	
	Total Domestic <sup>4</sup>	Crude Oil	Natural Gas Plant Production	Crude Oil <sup>5</sup>	Petroleum Products		Crude Oil <sup>6</sup> and Petroleum Products	
							Million barrels	
							Thousand barrels per day	
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	<sup>7</sup> 1,074
1975	Average	10,045	8,375	1,633	<sup>8</sup> -17	<sup>8</sup> -145	16,322	1,133
1976	Average	9,774	8,132	1,603	-39	96	17,461	1,112
1977	Average	9,913	8,245	1,618	-170	-378	18,431	1,312
1978	Average	10,328	8,707	1,567	-78	172	18,847	1,278
1979	Average	10,179	8,552	1,584	-148	-25	18,513	1,341
1980	Average	10,214	8,597	1,573	-98	-42	17,056	<sup>7</sup> 1,392
1981	Average	10,230	8,572	1,609	<sup>8</sup> -290	<sup>8</sup> 130	16,058	1,484
1982	Average	10,252	8,649	1,550	-136	283	15,296	<sup>7</sup> 1,430
1983	January	10,331	8,697	1,580	<sup>8</sup> -499	<sup>8</sup> 772	14,722	1,452
	February	10,388	8,758	1,575	-320	1,113	14,792	1,430
	March	10,279	8,700	1,541	83	1,810	15,541	1,372
	April	10,322	8,776	1,506	-402	308	14,692	1,374
	May	10,190	8,631	1,493	-15	-602	14,505	1,394
	June	10,261	8,667	1,523	-122	-276	15,289	1,405
	July	10,228	8,636	1,539	233	-909	15,019	1,426
	August	10,284	8,679	1,562	-796	-271	15,480	1,460
	September	10,447	8,784	1,602	-239	-621	15,506	1,485
	October	10,434	8,771	1,604	-274	-442	14,962	1,508
	November	10,461	8,770	1,641	114	-182	15,500	1,510
	December	9,983	8,397	1,544	-329	2,133	16,726	1,454
		<b>Average</b>	<b>10,299</b>	<b>8,688</b>	<b>1,559</b>	<b>-214</b>	<b>234</b>	<b>15,231</b>
1984	January	R10,477	R8,868	R1,572	R-328	R1,115	R16,801	R1,429
	February	R10,565	R8,874	R1,635	R197	R-1,374	R15,437	R1,463
	March	R10,319	R8,672	R1,599	R-25	R641	R16,050	1,444
	April	R10,531	R8,862	R1,619	R-476	R-106	R15,568	R1,462
	May	R10,623	R8,955	R1,614	R-677	R-434	R15,620	R1,496
	June	R10,507	R8,852	R1,613	R-104	R-109	R15,709	R1,503
	July	R10,587	R8,885	R1,634	R-169	R-169	R15,498	R1,513
	August	R10,478	R8,809	R1,637	250	R252	R16,116	R1,498
	September	R10,692	R8,993	R1,660	R260	R-769	R15,247	R1,513
	October	R10,608	R8,906	R1,649	R-759	R-246	R15,616	R1,544
	November	R10,689	R8,979	R1,678	R-236	R-177	R15,627	1,556
	December	R10,578	R8,897	1,649	R-290	R293	R15,375	R1,556
		<b>Average</b>	<b>R10,554</b>	<b>R8,879</b>	<b>R1,630</b>	<b>R-199</b>	<b>R-81</b>	<b>R15,726</b>
1985	January	10,612	8,929	1,642	18	1,443	16,142	1,510
	February	10,598	8,928	1,629	281	1,232	15,975	1,467
	March	10,588	8,927	1,615	-165	426	15,321	1,459
	April	10,481	8,842	1,600	-534	46	15,345	1,474
	May	10,619	8,969	1,607	R-696	R-386	R15,460	R1,508
	June†	NA	8,965	NA	186	-294	15,368	1,504
	<b>Average</b>	<b>NA</b>	<b>8,927</b>	<b>NA</b>	<b>-159</b>	<b>404</b>	<b>15,598</b>	

<sup>1</sup>Includes lease condensate.

<sup>2</sup>A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>3</sup>Stocks are totals as of end of period.

<sup>4</sup>Includes crude oil, natural gas plant production, other hydrocarbons, and alcohol.

<sup>5</sup>Includes stocks located in the Strategic Petroleum Reserve.

<sup>6</sup>Includes crude oil for storage in the Strategic Petroleum Reserve.

<sup>7</sup>Net imports equals imports minus exports.

<sup>8</sup>In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stocks withdrawal calculations. See Note 5 on the last page of this section.

Footnotes continued on following page.

# Petroleum

## Crude Oil<sup>1</sup> and Petroleum Products Overview (continued)

		Imports			Exports			Net Imports <sup>7</sup>
		Total	Crude Oil <sup>6</sup>	Petroleum Products	Total	Crude Oil	Petroleum Products	
Thousand barrels per day								
1973	Average	6,256	3,244	3,012	231	2	229	6,025
1974	Average	6,112	3,477	2,635	221	3	218	5,892
1975	Average	6,056	4,105	1,951	209	6	204	5,846
1976	Average	7,313	5,287	2,026	223	8	215	7,090
1977	Average	8,807	6,615	2,193	243	50	193	8,565
1978	Average	8,363	6,356	2,008	362	158	204	8,002
1979	Average	8,456	6,519	1,937	471	235	236	7,985
1980	Average	6,909	5,263	1,646	544	287	258	6,365
1981	Average	5,996	4,396	1,599	595	228	367	5,401
1982	Average	5,113	3,488	1,625	815	236	579	4,298
1983	January	4,438	2,964	1,474	973	117	856	3,464
	February	3,726	2,267	1,459	865	262	603	2,861
	March	3,690	2,290	1,400	801	174	627	2,889
	April	4,727	3,118	1,609	809	88	721	3,918
	May	5,089	3,360	1,729	848	280	568	4,241
	June	5,326	3,577	1,749	774	144	630	4,552
	July	5,741	3,871	1,870	571	145	426	5,170
	August	6,159	4,227	1,933	663	172	491	5,496
	September	6,129	4,210	1,919	684	177	507	5,445
	October	5,258	3,446	1,812	576	140	436	4,682
	November	5,210	3,337	1,873	679	186	494	4,531
	December	5,033	3,213	1,820	639	95	544	4,394
	Average	5,051	3,329	1,722	739	164	575	4,312
1984	January	R5,430	R3,055	R2,375	575	153	422	R4,855
	February	R5,693	R2,950	R2,743	582	185	397	R5,111
	March	R5,301	R3,470	R1,832	840	236	605	R4,461
	April	R5,372	3,417	R1,955	655	172	483	R4,717
	May	R5,979	R3,942	R2,036	766	219	548	R5,212
	June	R5,482	R3,546	R1,936	864	222	642	R4,618
	July	R5,407	3,646	R1,761	536	108	429	R4,871
	August	R5,044	R3,248	R1,796	732	190	542	R4,312
	September	R5,252	R3,342	R1,909	664	162	502	R4,588
	October	R5,779	3,751	R2,028	599	141	458	R5,179
	November	R5,587	R3,583	R2,004	854	202	652	R4,733
	December	R4,933	R3,136	R1,796	986	185	801	R3,947
	Average	R5,437	R3,426	R2,011	R722	R181	R541	R4,715
1985	January	4,376	2,700	1,676	792	144	647	3,584
	February	3,921	2,126	1,795	857	221	636	3,064
	March	4,689	2,808	1,881	694	189	505	3,996
	April	5,252	3,401	1,851	764	236	528	4,488
	May	R5,718	R3,724	R1,994	705	250	455	5,012
	June†	4,829	3,287	1,542	NA	NA	NA	NA
	Average	4,809	3,019	1,791	NA	NA	NA	NA

Footnotes continued.

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

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

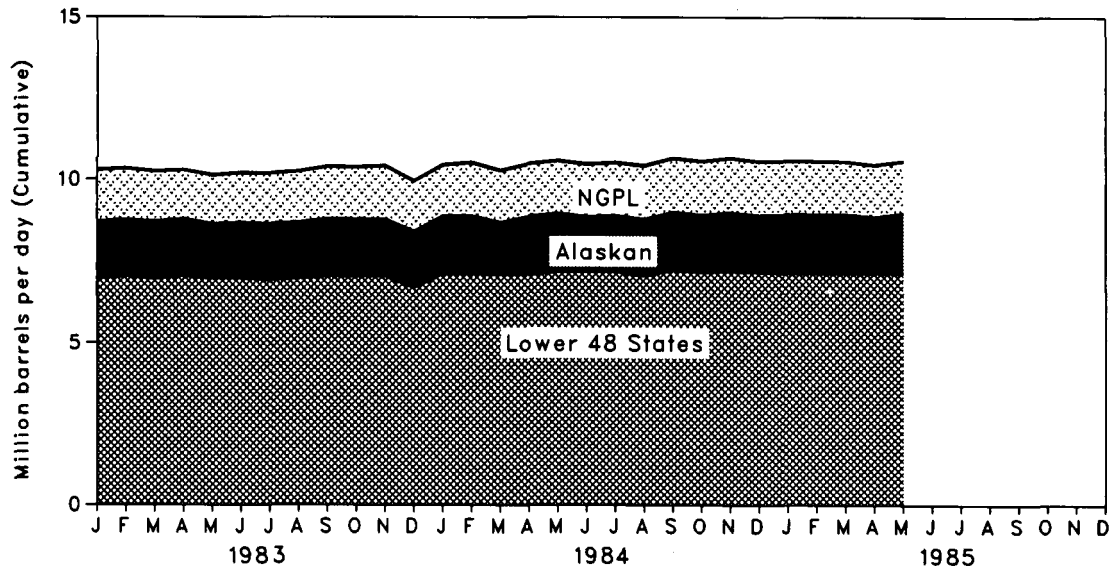
• Totals may not equal sum of components due to independent rounding.

Sources: • See the last page of this section.

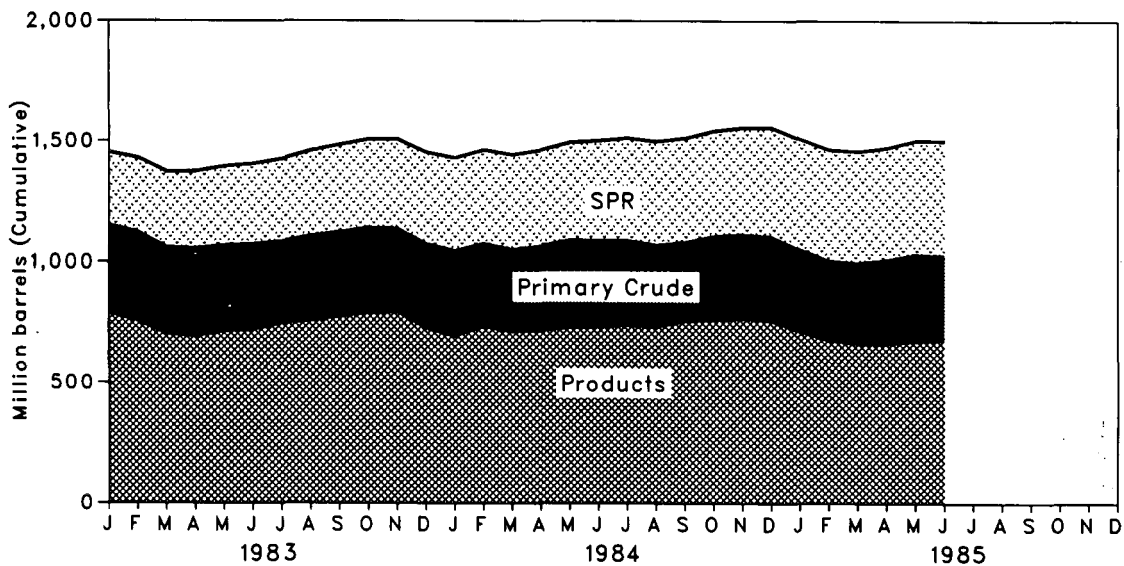
# Petroleum

## Overview

### Production of Crude Oil and Natural Gas Plant Liquids



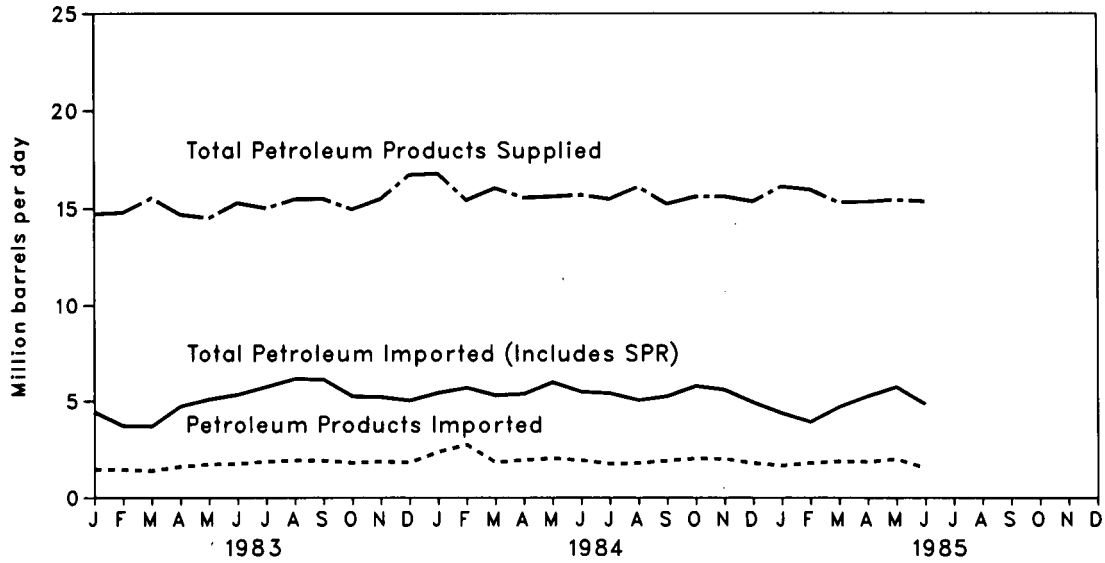
### Ending Stocks



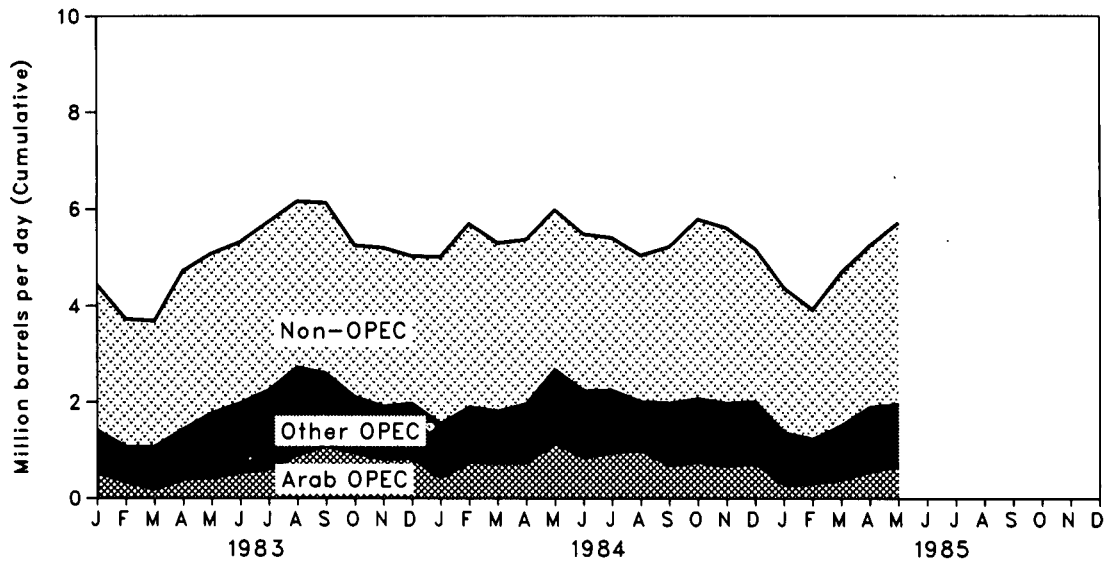
# Petroleum

## Overview

### Products Supplied and Imports



### Petroleum Imports by Source



# Petroleum

## Crude Oil<sup>1</sup> Supply and Disposition

		Supply							Unaccounted for Crude Oil
		Field Production		Imports			Stock Withdrawal <sup>3</sup>		
		Total Domestic	Alaskan	Total	SPR <sup>4</sup>	Other	SPR <sup>4</sup>	Other	
Thousand barrels per day									
1973	Average	9,208	198	3,244		3,244		11	3
1974	Average	8,774	193	3,477		3,477		-62	-25
1975	Average	8,375	191	4,105		4,105		-17	17
1976	Average	8,132	173	5,287		5,287		-39	77
1977	Average	8,245	464	6,615	21	6,594	-20	-150	-6
1978	Average	8,707	1,229	6,356	162	6,195	-163	84	-57
1979	Average	8,552	1,401	6,519	67	6,452	-67	-81	-11
1980	Average	8,597	1,617	5,263	44	5,219	-45	-52	34
1981	Average	8,572	1,609	4,396	256	4,141	-336	46	83
1982	Average	8,649	1,696	3,488	165	3,323	-174	38	71
1983	January	8,697	1,732	2,964	219	2,746	-219	6-280	170
	February	8,758	1,717	2,267	197	2,070	-197	-123	262
	March	8,700	1,732	2,290	201	2,089	-184	267	31
	April	8,776	1,721	3,118	205	2,913	-197	-205	98
	May	8,631	1,662	3,360	289	3,071	-293	278	169
	June	8,667	1,687	3,577	190	3,387	-188	66	370
	July	8,636	1,715	3,871	274	3,597	-264	497	-167
	August	8,679	1,697	4,227	350	3,876	-358	-438	281
	September	8,784	1,738	4,210	309	3,901	-307	68	-30
	October	8,771	1,733	3,446	202	3,244	-201	-73	44
	November	8,770	1,720	3,337	171	3,166	-135	250	34
	December	8,397	1,711	3,213	193	3,020	-252	-78	117
	Average	8,688	1,714	3,329	234	3,096	-234	20	114
1984	January	R8,868	R1,752	R3,055	200	R2,855	-173	R-155	R211
	February	R8,874	R1,749	R2,950	85	R2,866	-96	R293	R386
	March	R8,672	R1,570	R3,470	148	R3,322	-147	R122	R110
	April	R8,862	R1,770	3,417	170	R3,248	-170	R-307	R325
	May	R8,955	R1,764	R3,942	246	R3,696	-245	R-432	R309
	June	R8,852	R1,659	R3,546	309	R3,237	-309	R205	R246
	July	R8,885	R1,695	3,646	329	3,317	-328	R159	R-164
	August	R8,809	R1,722	R3,248	180	R3,068	-179	429	R293
	September	R8,993	R1,761	R3,342	53	R3,289	-53	R314	R-94
	October	R8,906	R1,732	3,751	187	R3,565	R-186	R-573	R291
	November	R8,979	R1,781	R3,583	219	R3,364	R-207	R-29	R47
	December	R8,897	R1,720	R3,136	229	R2,907	-241	R-50	R262
	Average	R8,879	R1,722	R3,426	197	R3,229	-195	R-4	R185
1985	January	8,929	1,788	2,700	223	2,478	-223	241	23
	February	8,928	1,787	2,126	98	2,028	-97	378	346
	March	8,927	1,786	2,808	48	2,760	-48	-117	92
	April	8,842	1,699	3,401	108	3,293	-111	-423	411
	May	8,969	1,827	R3,724	R222	R3,501	R-225	R-471	457
	June†	8,965	1,828	3,287	164	3,123	-164	350	NA
	Average	8,927	1,786	3,019	145	2,874	-145	-13	NA

<sup>1</sup>Includes lease condensate.

<sup>2</sup>Stocks are totals as of end of period.

<sup>3</sup>A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>4</sup>Strategic Petroleum Reserve.

<sup>5</sup>Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.

<sup>6</sup>Stocks of Alaskan crude oil in transit were included beginning in January 1981. Stock withdrawals are calculated using new basis stock levels. See Notes 5 and 6 on the last page of this section.

Footnotes continued on following page.

# Petroleum

## Crude Oil<sup>1</sup> Supply and Disposition (continued)

		Supply		Disposition			Ending Stocks <sup>2</sup>		
		Crude Used Directly <sup>a</sup>	Crude Losses	Refinery Inputs	Exports	Product Supplied <sup>a</sup>	Total	SPR <sup>a</sup>	Other Primary
		Thousand barrels per day					Million barrels		
1973	Average	-19	13	12,431	2	NA	242		242
1974	Average	-15	13	12,133	3	NA	265		265
1975	Average	-17	13	12,442	6	NA	271		271
1976	Average	-18	15	13,416	8	NA	285		285
1977	Average	-14	16	14,602	50	NA	348	7	340
1978	Average	-14	16	14,739	158	NA	376	67	309
1979	Average	-13	16	14,648	235	NA	430	91	339
1980	Average	-13	15	13,481	287	NA	466	108	358
1981	Average	-58	5	12,470	228	NA	594	230	363
1982	Average	-59	3	11,774	236	NA	644	294	350
1983	January	NA	2	11,143	117	71	660	301	360
	February	NA	3	10,633	262	71	669	306	363
	March	NA	2	10,859	174	70	667	312	355
	April	NA	2	11,433	88	68	679	318	361
	May	NA	1	11,800	280	63	679	327	353
	June	NA	(s)	12,284	144	64	683	332	351
	July	NA	2	12,360	145	65	676	341	335
	August	NA	1	12,152	172	64	700	352	349
	September	NA	1	12,482	177	66	708	361	347
	October	NA	1	11,782	140	63	716	367	349
	November	NA	2	12,004	186	64	713	371	341
	December	NA	1	11,234	95	67	723	379	344
		Average	NA	2	11,685	164	66		
1984	January	NA	1	R11,587	153	64	733	384	R349
	February	NA	1	R12,157	185	65	727	387	340
	March	NA	2	R11,926	236	62	728	392	336
	April	NA	R1	R11,891	172	64	R742	397	R346
	May	NA	2	R12,247	219	62	R763	404	359
	June	NA	2	R12,255	222	61	R767	414	353
	July	NA	R2	R12,028	108	60	772	424	348
	August	NA	1	R12,346	190	63	764	429	335
	September	NA	R3	R12,271	162	66	756	431	325
	October	NA	R1	R11,978	141	69	R780	R437	343
	November	NA	R(s)	R12,108	202	62	R787	443	R344
	December	NA	(s)	R11,755	185	64	R796	451	R345
		Average	NA	R2	R12,044	181	64		
1985	January	NA	1	11,456	144	69	793	457	336
	February	NA	1	11,393	221	66	786	460	325
	March	NA	1	11,404	189	69	791	462	329
	April	NA	(s)	11,817	236	67	807	465	342
	May	NA	1	R12,141	250	62	R828	R472	R356
	June†	NA	NA	12,323	NA	NA	820	476	343
		Average	NA	NA	11,758	NA	NA		

Footnotes continued.

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

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

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

Sources: • See the last page of this section.



# Petroleum

## Crude Oil and Petroleum Product Imports

### Imports from OPEC Sources<sup>1</sup>

		Algeria	Libya	Saudi Arabia	United Arab Emirates	Indonesia	Iran	Nigeria	Venezuela	Other OPEC <sup>2</sup>	Total OPEC	Total Arab OPEC <sup>3</sup>
Thousand barrels per day												
1973	Average	136	164	486	71	213	223	459	1,135	106	2,993	915
1974	Average	190	4	461	74	300	469	713	979	88	3,280	752
1975	Average	282	232	715	117	390	280	762	702	122	3,601	1,383
1976	Average	432	453	1,230	254	539	298	1,025	700	134	5,066	2,424
1977	Average	559	723	1,380	335	541	535	1,143	690	287	6,193	3,185
1978	Average	649	654	1,144	385	573	555	919	645	226	5,751	2,963
1979	Average	636	658	1,356	281	420	304	1,080	690	212	5,637	3,056
1980	Average	488	554	1,261	172	348	9	857	481	130	4,300	2,551
1981	Average	311	319	1,129	81	366	0	620	406	90	3,323	1,848
1982	Average	170	26	552	92	248	35	514	412	97	2,146	854
1983	January	207	0	282	47	255	43	186	337	54	1,412	537
	February	115	0	214	9	217	0	92	393	28	1,068	338
	March	63	0	103	0	138	0	121	440	201	1,066	183
	April	227	0	162	(s)	210	0	186	523	125	1,432	389
	May	286	0	122	12	405	37	385	455	69	1,771	420
	June	300	0	188	40	466	38	467	335	138	1,973	528
	July	283	0	182	64	464	112	525	434	187	2,251	606
	August	378	0	448	52	433	213	464	511	230	2,728	903
	September	423	0	587	21	501	86	324	432	221	2,595	1,084
	October	261	0	638	16	368	12	307	337	169	2,108	938
	November	184	0	545	56	302	21	215	452	135	1,910	807
	December	144	0	569	45	294	9	329	415	163	1,969	826
		Average	240	0	337	30	338	48	302	422	144	1,862
1984	January	242	0	R477	114	R289	0	243	R549	51	R1,965	R842
	February	R369	R7	324	33	267	0	244	R478	174	R1,896	R751
	March	R285	0	R310	112	R283	67	R269	R358	127	R1,811	R723
	April	280	0	320	95	R226	0	288	R593	158	R1,962	R735
	May	R471	0	329	240	R479	0	289	R627	242	R2,677	R1,146
	June	R302	0	411	46	415	0	243	R640	R171	R2,227	R838
	July	332	0	429	112	384	0	204	R539	242	R2,241	946
	August	404	0	438	82	281	0	114	R475	216	R2,009	993
	September	R359	0	159	113	333	17	160	R715	147	R2,002	R688
	October	333	0	287	114	R421	0	208	R585	115	R2,062	754
	November	R298	0	183	124	R424	24	163	R564	173	R1,954	R668
	December	R204	0	R224	211	314	12	R166	R459	174	R1,765	R723
		Average	R323	1	R325	117	R343	10	R216	R548	R166	R2,049
1985	January	95	0	106	60	274	0	262	481	89	1,367	289
	February	174	0	108	0	232	0	131	524	64	1,233	307
	March	252	0	85	52	283	0	180	575	84	1,512	390
	April	286	8	186	70	313	0	280	669	86	1,899	561
	May	281	0	49	128	211	0	381	549	354	1,953	669
		Average	218	2	106	63	263	0	249	559	137	1,598

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

<sup>2</sup>Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.

<sup>3</sup>Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

Footnotes continued on following page.

# Petroleum

## Crude Oil and Petroleum Product Imports (continued)

		Imports from Non-OPEC Sources <sup>1</sup>										Total Imports
		Bahamas	Canada	Mexico	Nether-lands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico	Virgin Islands	Other Non-OPEC	Total Non-OPEC	
		Thousand barrels per day										
1973	Average	174	1,325	16	585	255	15	99	329	465	3,263	6,256
1974	Average	164	1,070	8	511	251	8	90	391	340	2,832	6,112
1975	Average	152	846	71	332	242	14	90	406	300	2,454	6,056
1976	Average	118	599	87	275	274	31	88	422	353	2,247	7,313
1977	Average	171	517	179	211	289	126	105	466	550	2,614	8,807
1978	Average	160	467	318	229	253	180	94	429	484	2,613	8,363
1979	Average	147	538	439	231	190	202	92	431	548	2,819	8,456
1980	Average	78	455	533	225	176	176	88	388	491	2,609	6,909
1981	Average	74	447	522	197	133	375	62	327	534	2,672	5,996
1982	Average	65	482	685	175	112	456	50	316	627	2,968	5,113
1983	January	68	534	849	228	73	314	40	299	621	3,026	4,438
	February	92	586	722	183	81	193	50	192	558	2,658	3,726
	March	86	488	775	187	78	240	43	162	565	2,624	3,690
	April	174	454	981	216	85	421	20	183	759	3,295	4,727
	May	135	518	944	153	108	484	42	235	699	3,318	5,089
	June	137	586	830	173	120	440	48	262	757	3,353	5,326
	July	69	634	849	198	107	369	37	364	864	3,490	5,741
	August	144	542	906	197	90	461	40	313	738	3,431	6,159
	September	148	533	849	261	82	475	33	307	845	3,534	6,129
	October	171	532	771	172	106	414	48	357	580	3,151	5,258
	November	148	556	726	144	110	334	55	427	801	3,300	5,210
	December	127	604	710	153	113	429	22	278	628	3,063	5,033
		Average	125	547	826	189	96	382	40	282	701	3,189
1984	January	R159	R635	R710	R279	54	382	53	390	R804	R3,465	R5,430
	February	R156	620	R748	R289	77	R344	58	418	R1,087	R3,797	R5,693
	March	R90	R694	R716	169	93	R434	34	R248	R1,013	R3,490	R5,301
	April	R95	R705	R869	207	91	282	37	257	R869	R3,410	R5,372
	May	31	R722	R676	192	57	R429	38	336	R819	R3,302	R5,979
	June	R52	R506	R754	234	104	R345	53	268	R939	R3,255	R5,482
	July	14	R577	R740	99	120	362	27	292	R934	R3,166	R5,407
	August	57	R547	R640	R206	98	388	34	236	R829	R3,035	R5,044
	September	R98	R550	R780	133	103	490	38	R250	R808	R3,249	R5,252
	October	R151	R682	827	112	122	486	37	321	R979	R3,717	R5,779
	November	88	R640	R841	R181	115	544	44	283	R897	R3,633	R5,587
	December	75	R675	R686	R161	98	337	46	235	R855	R3,168	R4,933
		Average	R88	R630	R748	R188	94	R402	42	294	R902	R3,388
1985	January	90	610	765	125	113	345	32	235	695	3,009	4,376
	February	37	730	649	39	119	150	50	213	702	2,688	3,921
	March	32	900	921	52	137	141	29	235	730	3,177	4,689
	April	0	880	950	18	107	214	42	205	937	3,353	5,252
	May	66	796	959	22	126	419	37	252	1,088	3,765	5,718
		Average	45	784	852	52	121	256	37	229	832	3,208

Footnotes continued.

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

R=Revised data. (s)=Less than 500 barrels per day.

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

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

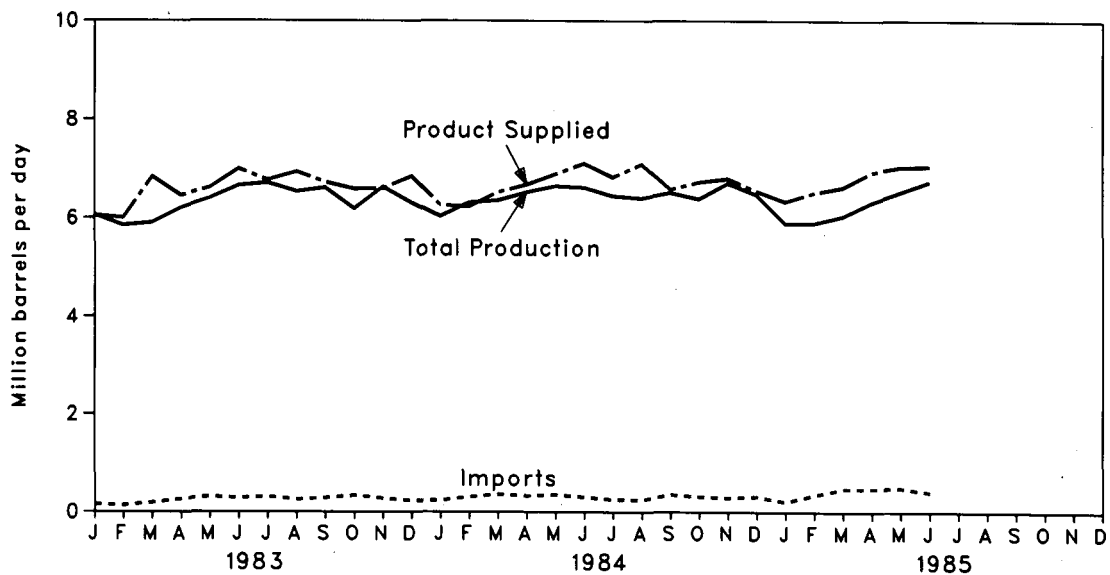
• Beginning in October 1977, Strategic Petroleum Reserve imports are included.

Sources: • See the last page of this section.

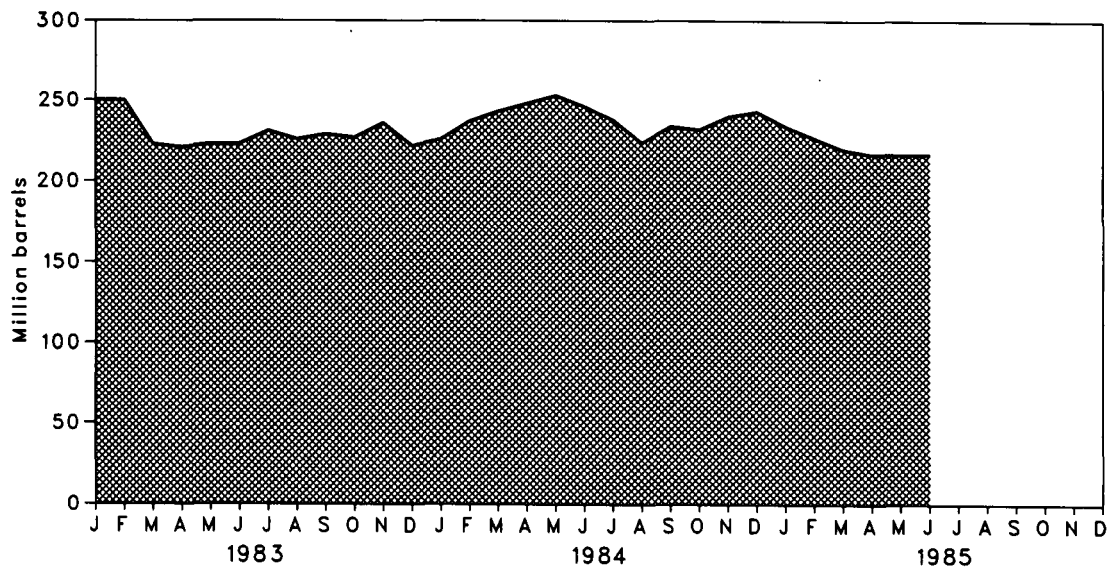
# Petroleum

## Finished Motor Gasoline Supply and Disposition

### Products Supplied, Total Production, and Imports



### Ending Stocks



# Petroleum

## Finished Motor Gasoline Supply and Disposition

		Supply			Disposition			Ending Stocks <sup>1</sup>		
		Total Production	Imports <sup>2</sup>	Stock Withdrawal <sup>2,3</sup>	Exports	Product Supplied		Total Motor Gasoline <sup>5</sup>	Finished Motor Gasoline	
						Total	Unleaded <sup>4</sup>	Unleaded Percent of Total		
		Thousand barrels per day						Million barrels		
1973	Average	6,535	134	9	4	6,674			209	
1974	Average	6,360	204	-24	2	6,537			*218	
1975	Average	6,520	184	*-28	2	6,675			235	
1976	Average	6,841	131	10	3	6,978			231	
1977	Average	7,033	217	-72	2	7,177	1,976	27.5	258	
1978	Average	7,169	190	54	1	7,412	2,521	34.0	238	
1979	Average	6,852	181	2	(s)	7,034	2,798	39.8	237	
1980	Average	6,506	140	-66	1	6,579	3,067	46.6	*261	
1981	Average <sup>7</sup>	6,405	157	*28	2	6,588	3,264	49.5	253	
1982	Average	6,338	197	25	20	6,539	3,409	52.1	*235	
1983	January	6,065	153	*-167	(s)	6,051	3,364	55.6	250	207
	February	5,848	128	24	(s)	6,000	3,264	54.4	250	207
	March	5,906	186	768	23	6,836	3,622	53.0	223	183
	April	6,201	255	-3	1	6,452	3,492	54.1	221	183
	May	6,397	305	-83	1	6,617	3,558	53.8	223	185
	June	6,655	277	84	22	6,994	3,792	54.2	223	183
	July	6,707	302	-225	18	6,765	3,746	55.4	231	190
	August	6,537	250	161	13	6,936	3,836	55.3	226	185
	September	6,611	279	-149	14	6,727	3,691	54.9	229	189
	October	6,188	330	72	2	6,588	3,711	56.3	227	187
	November	6,634	269	-298	2	6,603	3,692	55.9	236	196
	December	6,308	224	339	25	6,846	3,966	57.9	222	186
	Average	6,340	247	45	10	6,622	3,647	55.1		
1984	January	R6,036	R231	-1	1	R6,265	R3,605	57.5	R226	186
	February	R6,317	R299	R-383	2	R6,231	3,585	57.5	237	197
	March	R6,359	R355	R-176	9	R6,528	R3,750	R57.4	243	R202
	April	R6,525	R319	R-167	(s)	R6,676	R3,857	R57.8	248	207
	May	6,650	R346	R-105	(s)	R6,890	R4,004	58.1	253	R210
	June	R6,619	R296	R209	17	R7,107	R4,214	R59.3	R246	204
	July	R6,450	247	R142	9	R6,830	R4,057	R59.4	R238	200
	August	R6,405	R242	R447	1	R7,093	R4,283	R60.4	R224	R186
	September	R6,516	R349	R-275	2	R6,588	R3,973	R60.3	R234	194
	October	R6,388	R308	R34	1	R6,729	R4,093	R60.8	R232	193
	November	R6,709	286	R-183	11	R6,800	R4,245	R62.4	240	R199
	December	R6,478	308	R-215	16	R6,555	R4,168	63.6	243	205
	Average	R6,453	R299	R-54	6	R6,693	3,987	R59.6		
1985	January	5,889	204	245	2	6,336	4,026	63.5	234	198
	February	5,900	347	277	2	6,521	4,048	62.1	227	190
	March	6,041	473	118	3	6,629	4,189	63.2	220	186
	April	6,322	475	145	11	6,931	4,377	63.1	217	182
	May	R6,533	R487	R25	8	R7,036	R4,422	62.8	R217	R181
	June†	6,741	402	-93	NA	7,045	NA	NA	217	184
	Average	6,240	398	118	NA	6,751	NA	NA		

<sup>1</sup>Stocks are totals as of end of period.

<sup>2</sup>Beginning in 1981, excludes blending components.

<sup>3</sup>A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>4</sup>Includes gasohol.

<sup>5</sup>Includes motor gasoline blending components.

<sup>6</sup>In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.

<sup>7</sup>Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.

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

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

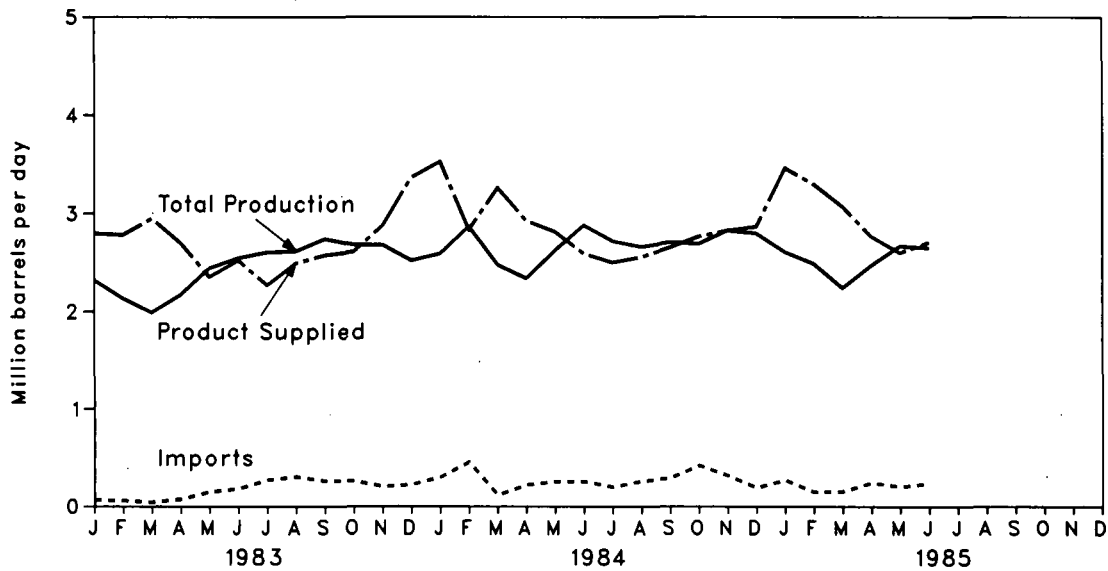
• Totals may not equal sum of components due to independent rounding.

Sources: • See the last page of this section.

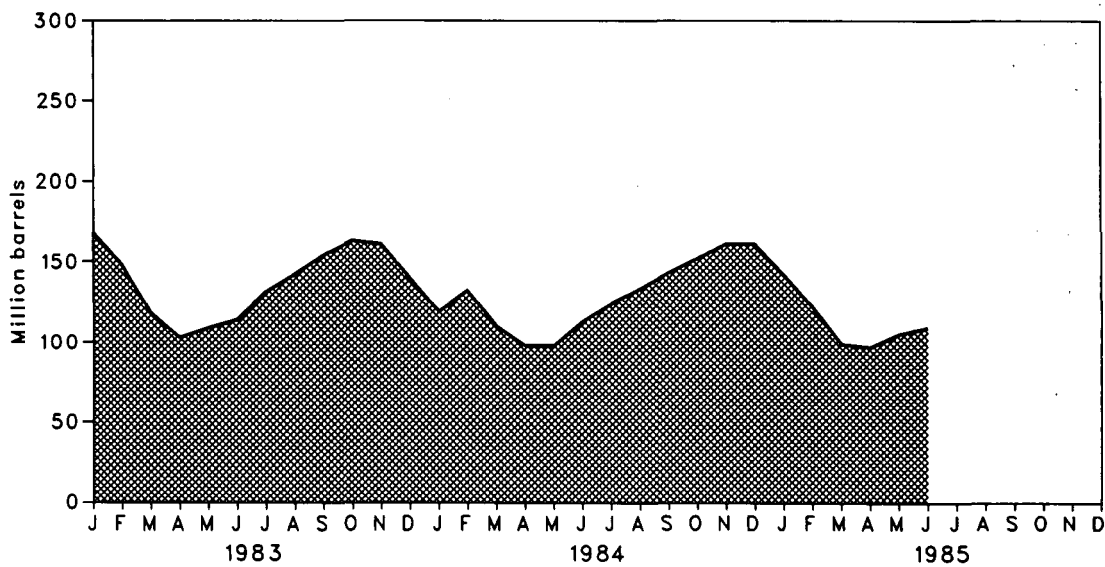
# Petroleum

## Distillate Fuel Oil Supply and Disposition

### Product Supplied, Total Production, and Imports



### Ending Stocks



# Petroleum

## Distillate Fuel Oil Supply and Disposition

		Supply				Disposition		Ending Stocks <sup>1</sup>
		Total Production	Imports	Stock Withdrawal <sup>2</sup>	Crude Used Directly <sup>3</sup>	Exports	Product Supplied <sup>4</sup>	
		Thousand barrels per day						Million barrels
1973	Average	2,822	392	-115	2	9	3,092	196
1974	Average	2,669	289	-9	2	2	2,948	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	Average	2,662	142	64	1	3	2,866	205
1981	Average <sup>5</sup>	2,613	173	38	10	5	2,829	192
1982	Average	2,606	93	35	10	74	2,671	179
1983	January	2,321	68	580	NA	173	2,797	168
	February	2,135	59	691	NA	105	2,780	148
	March	1,993	42	971	NA	59	2,947	118
	April	2,171	73	500	NA	47	2,697	103
	May	2,444	147	-186	NA	50	2,354	109
	June	2,546	179	-161	NA	40	2,524	114
	July	2,604	267	-546	NA	55	2,270	131
	August	2,615	301	-379	NA	43	2,495	142
	September	2,739	259	-386	NA	37	2,575	154
	October	2,681	260	-276	NA	55	2,611	163
	November	2,680	203	45	NA	54	2,874	161
	December	2,522	221	676	NA	54	3,365	140
	Average	2,456	174	124	NA	64	2,690	
1984	January	R2,591	R299	676	NA	40	R3,525	119
	February	R2,867	R454	R-446	NA	41	R2,834	132
	March	R2,479	115	R731	NA	66	R3,259	110
	April	R2,342	220	R396	NA	32	R2,926	98
	May	R2,624	R253	R-15	NA	48	R2,814	98
	June	R2,880	R256	-490	NA	53	R2,593	113
	July	R2,719	R199	R-373	NA	40	R2,504	R124
	August	R2,661	R259	R-287	NA	74	R2,559	R133
	September	R2,707	R291	R-321	NA	22	R2,654	143
	October	R2,691	R421	R-300	NA	47	R2,765	152
	November	R2,826	R316	R-291	NA	24	R2,827	161
	December	R2,798	190	R-3	NA	120	R2,865	161
	Average	R2,681	R272	-57	NA	51	R2,845	
1985	January	2,608	271	624	NA	41	3,462	142
	February	2,491	148	724	NA	64	3,299	122
	March	2,244	153	715	NA	44	3,069	99
	April	2,474	244	75	NA	27	2,767	97
	May	R2,670	R203	R-243	NA	31	2,600	105
	June†	2,650	237	-140	NA	NA	2,709	109
	Average	2,523	210	289	NA	NA	2,982	

<sup>1</sup>Stocks are totals as of end of period.

<sup>2</sup>A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>3</sup>Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Note 4 on the last page of this section.

<sup>4</sup>In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.

<sup>5</sup>Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.

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

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

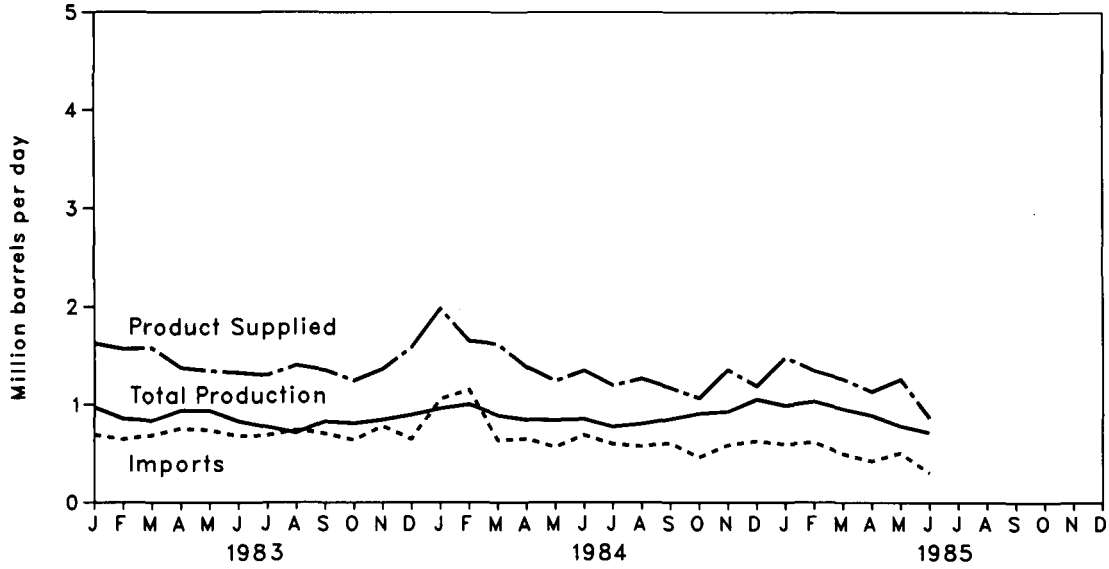
• Totals may not equal sum of components due to independent rounding.

Sources: • See the last page of this section.

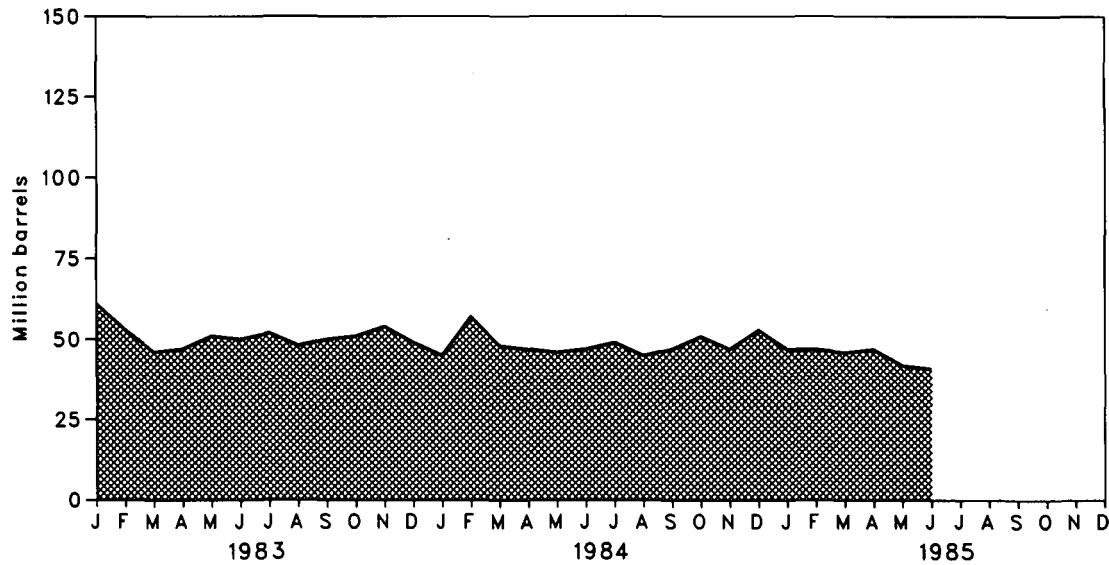
# Petroleum

## Residual Fuel Oil Supply and Disposition

### Product Supplied, Total Production, and Imports



### Ending Stocks



# Petroleum

## Residual Fuel Oil Supply and Disposition

		Supply				Disposition		Ending Stocks <sup>1</sup>
		Total Production	Imports	Stock Withdrawal <sup>2</sup>	Crude Used Directly <sup>3</sup>	Exports	Product Supplied <sup>3</sup>	
		Thousand barrels per day						Million barrels
<b>1973</b>	<b>Average</b>	<b>971</b>	<b>1,853</b>	<b>5</b>	<b>17</b>	<b>23</b>	<b>2,822</b>	<b>53</b>
<b>1974</b>	<b>Average</b>	<b>1,070</b>	<b>1,587</b>	<b>-17</b>	<b>13</b>	<b>14</b>	<b>2,639</b>	<b>60</b>
<b>1975</b>	<b>Average</b>	<b>1,235</b>	<b>1,223</b>	<b>2</b>	<b>15</b>	<b>15</b>	<b>2,462</b>	<b>74</b>
<b>1976</b>	<b>Average</b>	<b>1,377</b>	<b>1,413</b>	<b>5</b>	<b>17</b>	<b>12</b>	<b>2,801</b>	<b>72</b>
<b>1977</b>	<b>Average</b>	<b>1,754</b>	<b>1,359</b>	<b>-48</b>	<b>13</b>	<b>6</b>	<b>3,071</b>	<b>90</b>
<b>1978</b>	<b>Average</b>	<b>1,667</b>	<b>1,355</b>	<b>-1</b>	<b>13</b>	<b>13</b>	<b>3,023</b>	<b>90</b>
<b>1979</b>	<b>Average</b>	<b>1,687</b>	<b>1,151</b>	<b>-15</b>	<b>12</b>	<b>9</b>	<b>2,826</b>	<b>96</b>
<b>1980</b>	<b>Average</b>	<b>1,580</b>	<b>939</b>	<b>10</b>	<b>12</b>	<b>33</b>	<b>2,508</b>	<b>92</b>
<b>1981</b>	<b>Average<sup>4</sup></b>	<b>1,321</b>	<b>800</b>	<b>37</b>	<b>48</b>	<b>118</b>	<b>2,088</b>	<b>78</b>
<b>1982</b>	<b>Average</b>	<b>1,070</b>	<b>776</b>	<b>32</b>	<b>48</b>	<b>209</b>	<b>1,716</b>	<b>66</b>
<b>1983</b>	January	972	691	258	NA	294	1,626	61
	February	857	647	257	NA	191	1,570	53
	March	835	686	227	NA	169	1,579	46
	April	941	753	-10	NA	310	1,374	47
	May	936	738	-141	NA	190	1,342	51
	June	828	677	36	NA	218	1,323	50
	July	769	684	-64	NA	90	1,299	52
	August	710	739	115	NA	165	1,400	48
	September	826	706	-47	NA	134	1,351	50
	October	807	638	-50	NA	153	1,243	51
	November	845	780	-97	NA	167	1,362	54
	December	897	649	182	NA	141	1,587	49
	<b>Average</b>	<b>852</b>	<b>699</b>	<b>55</b>	<b>NA</b>	<b>185</b>	<b>1,421</b>	
<b>1984</b>	January	R961	R1,059	R110	NA	151	R1,979	45
	February	1,003	R1,151	R-416	NA	87	R1,651	R57
	March	R889	R636	R298	NA	204	R1,619	48
	April	R847	R651	R15	NA	130	R1,384	47
	May	R840	R565	R32	NA	200	R1,237	46
	June	R849	R685	R-15	NA	176	R1,344	47
	July	R770	R597	R-76	NA	99	R1,192	49
	August	R800	572	R149	NA	260	R1,261	45
	September	R850	R606	R-74	NA	214	R1,168	47
	October	R907	461	R-127	NA	174	R1,066	51
	November	R928	R585	R125	NA	286	R1,352	47
	December	R1,053	627	-193	NA	299	R1,189	53
	<b>Average</b>	<b>R891</b>	<b>R681</b>	<b>R-12</b>	<b>NA</b>	<b>190</b>	<b>R1,369</b>	
<b>1985</b>	January	991	594	208	NA	312	1,481	47
	February	1,031	614	-7	NA	295	1,343	47
	March	954	496	22	NA	216	1,256	46
	April	888	422	-11	NA	167	1,133	47
	May	R780	R505	R156	NA	185	R1,255	42
	June†	713	300	48	NA	NA	861	41
	<b>Average</b>	<b>892</b>	<b>488</b>	<b>71</b>	<b>NA</b>	<b>NA</b>	<b>1,222</b>	

<sup>1</sup>Stocks are totals as of end of period.

<sup>2</sup>A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>3</sup>Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Note 4 on the last page of this section.

<sup>4</sup>In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.

<sup>5</sup>Beginning in January 1981, survey forms were modified. See Note 2 on the last page of this section.

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

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

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

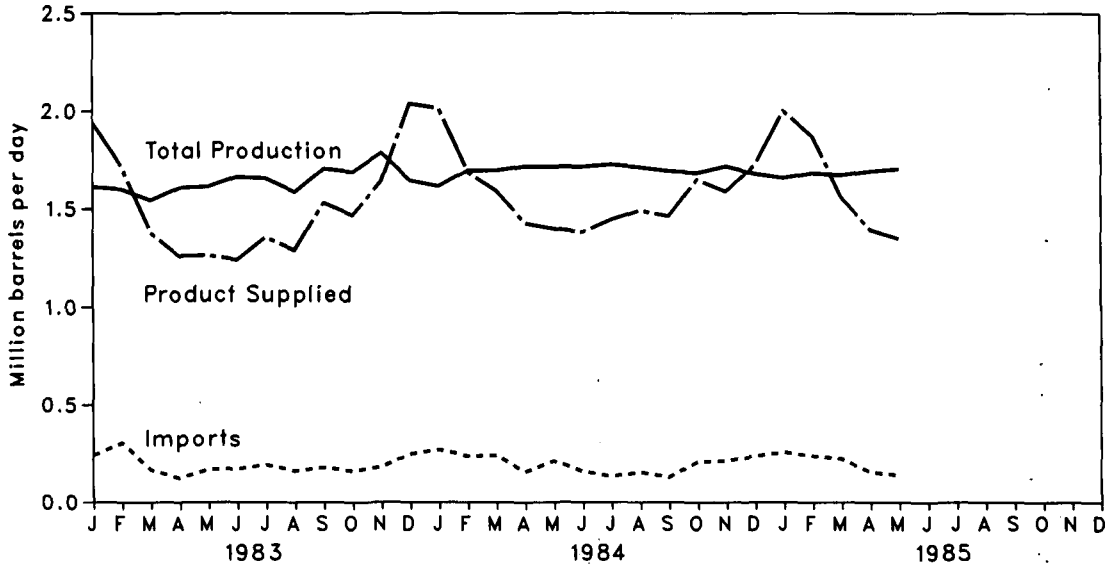
Sources: • See the last page of this section.



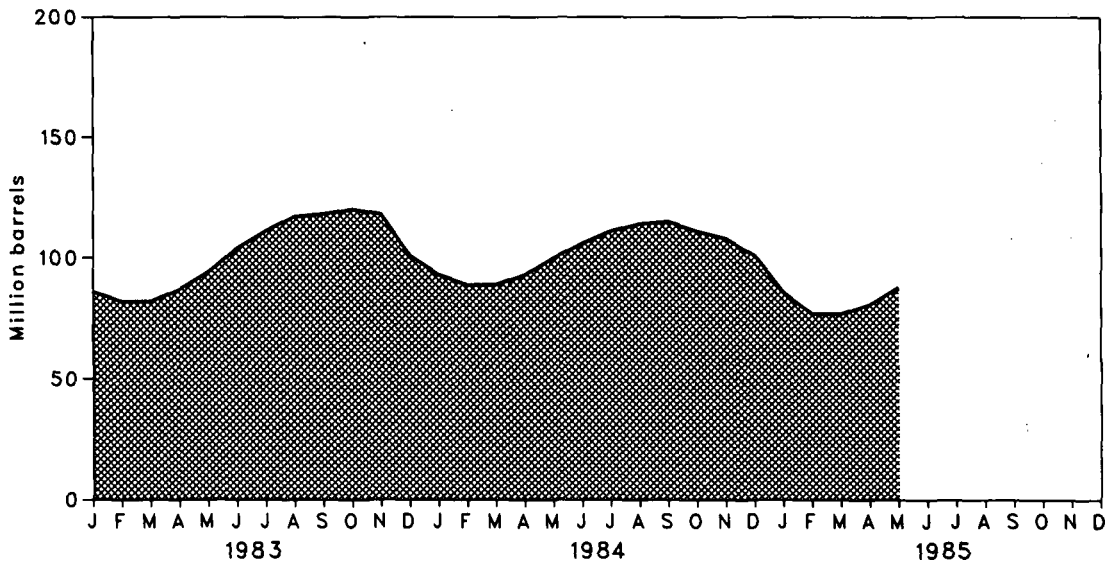
# Petroleum

## Liquefied Petroleum Gases Supply and Disposition

### Product Supplied, Total Production, and Imports



### Ending Stocks



# Petroleum

## Liquefied Petroleum Gases<sup>1</sup> Supply and Disposition

		Supply			Disposition			Ending Stocks <sup>2</sup>
		Total Production	Imports	Stock Withdrawal <sup>3</sup>	Refinery Inputs	Exports	Product Supplied	
		Thousand barrels per day						Million barrels
1973	Average	1,600	132	-35	220	27	1,449	99
1974	Average	1,565	123	-38	220	25	1,406	113
1975	Average	1,527	112	-35	246	26	1,333	125
1976	Average	1,535	130	24	260	25	1,404	116
1977	Average	1,566	161	-55	233	18	1,422	136
1978	Average	1,537	123	12	239	20	1,413	132
1979	Average	1,556	217	70	236	15	1,592	111
1980	Average	1,535	216	-27	233	21	1,469	120
1981	Average	1,571	244	-18	289	42	1,466	135
1982	Average	1,528	226	111	300	65	1,499	94
1983	January	1,611	240	520	313	118	1,939	86
	February	1,600	305	128	244	76	1,713	82
	March	1,543	166	-9	197	127	1,377	82
	April	1,607	124	-156	198	116	1,260	87
	May	1,613	167	-225	207	84	1,263	94
	June	1,664	172	-334	203	59	1,241	104
	July	1,656	191	-221	217	55	1,354	111
	August	1,586	160	-199	229	29	1,289	117
	September	1,705	178	-30	236	86	1,531	118
	October	1,688	160	-81	268	32	1,467	120
	November	1,785	180	70	362	33	1,640	118
	December	1,645	247	575	363	66	2,038	101
	Average	1,642	190	4	253	73	1,509	
1984	January	R1,615	269	R494	R340	23	R2,015	93
	February	R1,696	237	R122	R324	41	R1,690	89
	March	R1,696	241	12	R288	68	R1,593	89
	April	R1,716	155	R-139	253	54	R1,426	R93
	May	R1,714	211	R-240	244	42	R1,399	R100
	June	1,714	158	R-201	237	53	R1,380	106
	July	R1,725	132	R-139	232	43	R1,444	111
	August	R1,711	154	R-100	241	34	R1,490	R114
	September	R1,693	128	R-50	283	26	R1,462	115
	October	R1,684	207	R138	322	56	R1,650	111
	November	R1,716	212	R89	376	52	R1,588	108
	December	R1,679	237	R239	R349	82	R1,724	101
	Average	R1,697	195	19	291	48	R1,572	
1985	January	1,658	255	466	309	70	2,001	86
	February	1,682	237	338	313	72	1,872	77
	March	1,672	223	-13	270	52	1,560	77
	April	1,691	156	-115	260	78	1,394	81
	May	1,703	138	-217	235	40	1,349	88
	Average	1,681	201	88	277	62	1,632	

<sup>1</sup>Includes ethane, propane, normal butane, and isobutane.

<sup>2</sup>Stocks are totals as of end of period.

<sup>3</sup>A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>4</sup>In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations.

See Note 5 on the last page of this section.

R=Revised data.

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

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

Sources: • See the last page of this section.

# Petroleum

## Other Petroleum Products<sup>1</sup> Supply and Disposition

		Supply			Disposition			Ending Stocks <sup>2</sup>	
		Total Production	Imports	Stock Withdrawal <sup>3</sup>	Refinery Inputs	Exports	Product Supplied		
		Thousand barrels per day							Million barrels
1973	Average	3,693	502	-9	750	166	3,270	208	
1974	Average	3,558	432	-28	665	174	3,123	218	
1975	Average	3,424	277	-2	537	160	3,002	219	
1976	Average	3,643	206	-5	524	175	3,145	220	
1977	Average	3,912	205	-27	514	165	3,410	230	
1978	Average	4,046	166	14	492	167	3,568	225	
1979	Average	4,153	195	-37	352	209	3,749	238	
1980	Average	3,956	210	-23	311	198	3,634	247	
1981	Average	3,739	226	46	723	199	3,088	282	
1982	Average	3,453	334	80	787	211	2,869	253	
1983	January	3,194	322	419	588	271	2,239	271	
	February	3,229	321	12	673	232	2,658	270	
	March	3,381	319	-147	572	249	2,732	275	
	April	3,299	404	-24	592	247	2,840	276	
	May	3,405	374	35	705	242	2,866	275	
	June	3,610	444	96	717	292	3,144	272	
	July	3,636	425	148	735	209	3,265	267	
	August	3,695	482	30	668	242	3,297	266	
	September	3,792	497	-6	788	236	3,255	266	
	October	3,578	424	-107	711	195	2,990	270	
	November	3,568	441	95	912	238	2,957	267	
	December	3,123	479	361	883	257	2,823	256	
	Average	3,460	411	6	712	242	2,923		
1984	January	R3,376	R517	R-163	R570	207	R2,953	253	
	February	R3,595	R602	R-250	R754	225	R2,966	261	
	March	R3,512	R485	R-227	R527	258	R2,988	268	
	April	3,584	R610	R-211	R623	268	R3,092	274	
	May	3,683	R662	R-105	R764	257	R3,218	277	
	June	R3,869	R541	R391	R1,232	343	R3,223	265	
	July	R3,864	R587	R277	R1,022	238	R3,467	257	
	August	R3,848	R569	R41	R637	172	R3,650	256	
	September	R3,759	R536	R-50	R699	238	R3,308	R257	
	October	R3,585	632	R10	R709	180	3,336	257	
	November	R3,532	R606	R81	R945	R279	R2,997	R254	
	December	R3,379	R434	464	R1,016	284	R2,977	240	
	Average	R3,632	R565	R23	R791	R245	R3,183		
1985	January	3,258	352	-102	494	223	2,792	243	
	February	3,385	449	-99	658	204	2,874	246	
	March	3,436	536	-415	627	190	2,739	259	
	April	3,570	553	-49	776	245	3,054	260	
	May	3,677	661	-106	883	191	3,158	264	
	Average	3,466	511	-156	688	211	2,924		

<sup>1</sup>Includes pentanes plus, other hydrocarbons and alcohol, unfinished oil, gasoline blending components, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases.

<sup>2</sup>Stocks are totals as of end of period.

<sup>3</sup>A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>4</sup>In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations. See Note 5 on the last page of this section.

R=Revised data.

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

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

Sources: • See the last page of this section.

## Notes and Sources for the Petroleum Section

### Notes

1. During 1981 the listing (frame) of operators of all facilities required to complete each monthly survey was updated. The refinery frame was found to be complete and accurate, although the frames for bulk terminals, pipelines, and crude oil stocks facilities were found to be outdated. A variety of sources (published directories, listings, and exploratory surveys) were researched for potential new respondents. As a result of this research, a significant number of respondents were added to the frames. The increase in the respondents for the frames affects the stocks of crude oil and petroleum products. For further details, see the Energy Information Administration (EIA), *Petroleum Supply Monthly*.

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

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

4. **Distillate and Residual Fuel Oils:** The requirement to report crude oil burned on leases and pipelines as either distillate or residual fuel oil has been eliminated. Prior to January 1981, the refinery input of unfinished oils number typically exceeded the number for available supply of unfinished oils. This was assumed to be due to the redesignation of distillate and residual fuel oils received as such, but used as an unfinished oil input by the receiving refinery. This imbalance between supply and disposition of unfinished oils would then be subtracted from the production of distillate and residual fuel oils. Two-thirds of this difference was subtracted from distillate and one-third from residual. Beginning in January 1981, the EIA modified its survey forms to account for redesignated product and discontinued the above-mentioned adjustment. For further details, see the EIA, *Petroleum Supply Monthly*.

5. **New Stock Basis:** In January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and

pipeline surveys affecting subsequent stocks reported and stock withdrawal calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been:

- Crude Oil: 1982—645 (Total) and 351 (Other Primary).
- Crude Oil and Petroleum Products: 1974—1,121; 1980—1,420; and 1982—1,462.
- Motor Gasoline: 1974—225; 1980—263; 1982—244 (Total) and 203 (Finished).
- Distillate Fuel Oil: 1974—224; 1980—205; and 1982—186.
- Residual Fuel Oil: 1974—75; 1980—91; and 1982—68.
- Liquefied Petroleum Gases: 1974—113; 1980—128; and 1982—103.
- Other Petroleum Products: 1974—220; 1980—249; and 1982—259.
- Stock withdrawal calculations beginning in 1975, 1981, and 1983, were made using new basis stock levels.

In January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream, which was formerly included in "Other Petroleum Products Supply and Disposition" table, is now reported on a component basis (ethane, propane, normal butane, isobutane and pentanes plus). Most of these stocks will now appear in the "Liquefied Petroleum Gases Supply and Disposition" table. This change will affect stocks reported and stock withdrawals in each table. Under new basis, end-of-year 1983 stocks, in million barrels would have been:

- Liquefied Petroleum Gases: 1983—108.
- Other Petroleum Products: 1983—248.

6. Stocks of Alaskan crude oil in transit were included for the first time in January 1981. The major impact of this change is on the reporting of stock withdrawal calculations. Using the expanded coverage (new basis), 1980 end-of-year stocks, in million barrels, would have been 488 (Total) and 380 (Other Primary).

### Sources

- 1973 through 1976: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual."
- 1977 through 1980: Energy Information Administration (EIA), *Energy Data Reports*, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual" and unleaded gasoline data from *Monthly Petroleum Statistics Report*.
- January 1981 through December 1984: EIA, *Petroleum Supply Annual*.
- January 1985 through May 1985: Detailed statistics in appropriate issues of the *Petroleum Supply Monthly* (except domestic crude oil production).
- June 1985: Estimates based on EIA weekly data (except domestic crude oil production).
- January 1985 through June 1985: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey.

## Natural Gas

Total dry natural gas production in the United States during May 1985 was an estimated 1.4 trillion cubic feet, only slightly higher than the production in May 1984.

Consumption of natural and supplemental gas in May 1985 was an estimated 1.2 trillion cubic feet, 2.2 percent lower than the consumption in May 1984.

Deliveries to industrial consumers, the principal end users of natural gas, during April 1985 (latest data available) were an estimated 385 billion cubic feet, 6.1 percent higher than in April 1984.

Imports of natural gas in May 1985 were an estimated 73 billion cubic feet, 10.6 percent higher than in the previous May. Receipts of foreign gas during May 1985 included Algerian liquefied natural gas (LNG) equivalent to approximately 2 billion cubic feet.

Stocks of working gas\* in underground natural gas storage reservoirs at the end of May 1985 totaled 2,131 billion cubic feet. This was 15.6 percent above stocks available a year earlier. Net injections into storage during May 1985 were 274 billion cubic feet, 20.7 percent higher than during the previous May.

---

\*Gas available for withdrawal.

# Natural Gas

## Production Summary

		Gross Wet Gas Withdrawals <sup>1</sup>	Used for Repressuring <sup>2</sup>	Nonhydro- carbon Gas Removed <sup>3</sup>	Vented and Flared	Marketed Production (Wet) <sup>4</sup>	Extraction Loss <sup>5</sup>	Total Dry Gas Production <sup>6</sup>
Billion cubic feet								
1973	Total	24,067	1,171	NA	248	<sup>6</sup> 22,648	917	<sup>6</sup> 21,731
1974	Total	22,850	1,080	NA	169	<sup>6</sup> 21,601	887	<sup>6</sup> 20,713
1975	Total	21,104	861	NA	134	<sup>6</sup> 20,109	872	<sup>6</sup> 19,236
1976	Total	20,944	859	NA	132	<sup>6</sup> 19,952	854	<sup>6</sup> 19,098
1977	Total	21,097	935	NA	137	<sup>6</sup> 20,025	863	<sup>6</sup> 19,163
1978	Total	21,309	1,181	NA	153	<sup>6</sup> 19,974	852	<sup>6</sup> 19,122
1979	Total	21,883	1,245	NA	167	<sup>6</sup> 20,471	808	<sup>6</sup> 19,663
1980	Total	21,870	1,365	199	125	20,180	777	19,403
1981	Total	21,587	1,312	222	98	19,956	775	19,181
1982	Total	20,210	1,388	208	93	18,520	762	17,758
1983	January	1,688	125	20	7	1,536	72	1,464
	February	1,488	111	17	7	1,353	64	1,289
	March	1,552	125	18	8	1,401	66	1,335
	April	1,470	123	16	8	1,323	62	1,261
	May	1,467	114	17	9	1,328	62	1,266
	June	1,415	121	19	7	1,268	60	1,208
	July	1,502	128	18	8	1,348	63	1,285
	August	1,555	127	20	8	1,400	66	1,334
	September	1,514	123	19	8	1,364	64	1,300
	October	1,591	125	18	8	1,440	68	1,372
	November	1,602	117	19	9	1,457	68	1,389
	December	1,753	119	21	8	1,605	75	1,530
	<b>Total</b>	<b>18,597</b>	<b>1,458</b>	<b>222</b>	<b>95</b>	<b>16,822</b>	<b>790</b>	<b>16,033</b>
1984	January	1,858	119	22	7	1,709	80	1,629
	February	1,621	115	19	6	1,481	70	1,411
	March	1,666	112	21	7	1,526	72	1,454
	April	1,642	120	19	7	1,495	70	1,425
	May	1,644	127	20	7	1,490	70	1,420
	June	1,593	124	20	8	1,442	68	1,374
	July	1,649	126	19	8	1,496	70	1,426
	August	1,628	127	19	8	1,475	69	1,406
	September	1,547	121	15	7	1,403	66	1,337
	October	1,634	128	18	7	R1,480	70	R1,410
	November	R1,626	124	16	8	R1,477	69	R1,408
	December	R1,764	131	21	7	R1,606	75	R1,531
	<b>Total</b>	<b>R19,872</b>	<b>1,474</b>	<b>229</b>	<b>87</b>	<b>R18,082</b>	<b>849</b>	<b>R17,231</b>
1985	January	R1,777	R124	20	R7	R1,626	R76	R1,550
	February	R1,614	R122	18	R6	R1,468	69	R1,399
	March	R1,661	R137	19	R6	R1,500	R71	R1,429
	April	<i>R1,628</i>	<i>R123</i>	<i>R18</i>	<i>R6</i>	<i>R1,481</i>	<i>R70</i>	<i>R1,411</i>
	May	<i>1,652</i>	<i>125</i>	<i>19</i>	<i>6</i>	<i>1,502</i>	<i>71</i>	<i>1,431</i>
	<b>Year to Date</b>	<b>8,332</b>	<b>631</b>	<b>94</b>	<b>31</b>	<b>7,577</b>	<b>357</b>	<b>7,220</b>

<sup>1</sup>Gas withdrawn from gas and oil wells.

<sup>2</sup>Gas returned to formations for repressuring, pressure maintenance, and cycling.

<sup>3</sup>For definitions and further explanations, see Notes on the last two pages of this section.

<sup>4</sup>Equal to gross withdrawals minus volumes used for repressuring, volumes of nonhydrocarbon gases removed, and volumes vented and flared. See Note 2 on the last two pages of this section for further explanation.

<sup>5</sup>Equal to marketed production (wet) minus extraction loss.

<sup>6</sup>May include unknown quantities of nonhydrocarbon gases.

R = Revised data. NA = Not available.

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

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

• Italics denote estimated data. Data for 1973 through 1983 are final. All other data are preliminary unless otherwise indicated.

Sources: • See the last page of this section.

# Natural Gas

## Supply and Disposition of Natural Gas

	Supply				Disposition					
	Total Dry Gas Production	Withdrawals from Storage <sup>1</sup>	Supplemental Gaseous Fuels <sup>2</sup>	Imports <sup>2</sup>	Total Supply/Disposition <sup>3</sup>	Additions to Storage <sup>1</sup>	Exports <sup>2</sup>	Consumption <sup>2</sup>	Un-accounted for <sup>5</sup>	
Billion cubic feet										
<b>1973 Total</b>	<b>*21,731</b>	<b>1,533</b>	<b>NA</b>	<b>1,033</b>	<b>24,297</b>	<b>1,974</b>	<b>77</b>	<b>22,049</b>	<b>196</b>	
<b>1974 Total</b>	<b>*20,713</b>	<b>1,701</b>	<b>NA</b>	<b>959</b>	<b>23,373</b>	<b>1,784</b>	<b>77</b>	<b>21,223</b>	<b>289</b>	
<b>1975 Total</b>	<b>*19,236</b>	<b>1,760</b>	<b>NA</b>	<b>953</b>	<b>21,949</b>	<b>2,104</b>	<b>73</b>	<b>19,538</b>	<b>235</b>	
<b>1976 Total</b>	<b>*19,098</b>	<b>1,921</b>	<b>NA</b>	<b>964</b>	<b>21,983</b>	<b>1,756</b>	<b>65</b>	<b>19,946</b>	<b>216</b>	
<b>1977 Total</b>	<b>*19,163</b>	<b>1,750</b>	<b>NA</b>	<b>1,011</b>	<b>21,924</b>	<b>2,307</b>	<b>56</b>	<b>19,521</b>	<b>41</b>	
<b>1978 Total</b>	<b>*19,122</b>	<b>2,158</b>	<b>NA</b>	<b>966</b>	<b>22,245</b>	<b>2,278</b>	<b>53</b>	<b>19,627</b>	<b>287</b>	
<b>1979 Total</b>	<b>*19,663</b>	<b>2,047</b>	<b>NA</b>	<b>1,253</b>	<b>22,964</b>	<b>2,295</b>	<b>56</b>	<b>20,241</b>	<b>372</b>	
<b>1980 Total</b>	<b>19,403</b>	<b>1,972</b>	<b>155</b>	<b>985</b>	<b>22,515</b>	<b>1,949</b>	<b>49</b>	<b>19,877</b>	<b>640</b>	
<b>1981 Total</b>	<b>19,181</b>	<b>1,930</b>	<b>176</b>	<b>904</b>	<b>22,191</b>	<b>2,228</b>	<b>59</b>	<b>19,404</b>	<b>501</b>	
<b>1982 Total</b>	<b>17,758</b>	<b>2,164</b>	<b>145</b>	<b>933</b>	<b>21,000</b>	<b>2,472</b>	<b>52</b>	<b>18,001</b>	<b>475</b>	
<b>1983</b>	January	1,464	474	15	112	2,065	26	5	1,975	59
	February	1,289	341	13	95	1,738	39	5	1,642	52
	March	1,335	280	12	86	1,713	63	5	1,591	54
	April	1,261	171	11	74	1,517	88	5	1,373	51
	May	1,266	43	9	61	1,379	205	5	1,118	51
	June	1,208	23	8	59	1,298	273	3	974	48
	July	1,285	26	8	58	1,377	287	5	1,034	51
	August	1,334	37	9	56	1,436	265	6	1,112	53
	September	1,300	28	9	67	1,404	277	4	1,071	52
	October	1,372	42	10	64	1,488	183	4	1,246	55
	November	1,389	169	12	80	1,650	86	5	1,503	56
	December	1,530	634	17	107	2,288	31	5	2,191	61
	<b>Total</b>	<b>16,033</b>	<b>2,270</b>	<b>132</b>	<b>920</b>	<b>19,354</b>	<b>1,822</b>	<b>55</b>	<b>16,835</b>	<b>*642</b>
<b>1984</b>	January	1,629	563	17	R97	R2,306	54	R5	R2,219	R28
	February	1,411	300	13	R69	R1,793	62	R5	R1,702	R24
	March	1,454	359	14	69	1,896	50	R6	R1,815	R25
	April	1,425	99	11	R71	R1,606	145	5	R1,432	R24
	May	1,420	30	10	R66	R1,526	258	R5	R1,239	R24
	June	1,374	26	9	R59	R1,468	325	R3	R1,116	R24
	July	1,426	28	9	R55	R1,518	341	5	R1,148	R24
	August	1,406	30	9	R54	R1,499	313	5	R1,157	R24
	September	1,337	30	9	R57	R1,433	287	5	R1,118	R23
	October	R1,410	55	10	R67	R1,542	244	R5	R1,269	R24
	November	R1,408	221	12	R84	1,725	82	R5	R1,614	R24
	December	R1,531	R302	14	94	R1,941	R94	R5	R1,816	R26
	<b>Total</b>	<b>R17,231</b>	<b>R2,042</b>	<b>137</b>	<b>R843</b>	<b>R20,253</b>	<b>R2,255</b>	<b>55</b>	<b>R17,645</b>	<b>R294</b>
<b>1985</b>	January	R1,550	R658	17	104	R2,329	R35	5	R2,262	R27
	February	R1,399	R438	14	R98	R1,949	R49	4	R1,872	R24
	March	R1,429	R208	R12	R89	R1,738	R93	4	R1,617	R24
	April	<i>R1,411</i>	R99	R14	R75	R1,596	R211	5	R1,356	R24
	May	<i>1,431</i>	18	12	73	1,534	293	5	1,212	24
	<b>Year to Date</b>	<b>7,220</b>	<b>1,421</b>	<b>66</b>	<b>439</b>	<b>9,146</b>	<b>683</b>	<b>23</b>	<b>8,317</b>	<b>123</b>

<sup>1</sup>Monthly and annual data for 1980 through 1983 include underground storage and liquefied natural gas storage. All other data include underground storage only. Computation procedures are discussed in Note 8 on the last two pages of this section.

<sup>2</sup>For definitions and further explanations, see Notes on the last two pages of this section.

<sup>3</sup>Data for 1978 through 1982 do not include intransit receipts and deliveries.

<sup>4</sup>May include unknown quantities of nonhydrocarbon gases.

<sup>5</sup>See Note 7 on the last two pages of this section.

R=Revised data. NA=Not available.

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

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

• Italics denote estimated data. Data for 1973 through 1983 are final. All other data are preliminary unless otherwise indicated.

Sources: • See the last page of this section.

# Natural Gas

## Natural Gas<sup>1</sup> Consumption

		Delivered to Consumers							Total Consumption
		Lease and Plant Fuel	Pipeline Fuel	Residential	Commercial <sup>2</sup>	Industrial	Electric Utilities	Total	
Billion cubic feet									
<b>1973</b>	<b>Total</b>	<b>1,496</b>	<b>728</b>	<b>4,879</b>	<b>2,597</b>	<b>8,689</b>	<b>3,660</b>	<b>19,825</b>	<b>22,049</b>
<b>1974</b>	<b>Total</b>	<b>1,477</b>	<b>669</b>	<b>4,786</b>	<b>2,556</b>	<b>8,292</b>	<b>3,443</b>	<b>19,077</b>	<b>21,223</b>
<b>1975</b>	<b>Total</b>	<b>1,396</b>	<b>583</b>	<b>4,924</b>	<b>2,508</b>	<b>6,968</b>	<b>3,158</b>	<b>17,558</b>	<b>19,538</b>
<b>1976</b>	<b>Total</b>	<b>1,634</b>	<b>548</b>	<b>5,051</b>	<b>2,668</b>	<b>6,964</b>	<b>3,081</b>	<b>17,764</b>	<b>19,946</b>
<b>1977</b>	<b>Total</b>	<b>1,659</b>	<b>533</b>	<b>4,821</b>	<b>2,501</b>	<b>6,815</b>	<b>3,191</b>	<b>17,329</b>	<b>19,521</b>
<b>1978</b>	<b>Total</b>	<b>1,648</b>	<b>530</b>	<b>4,903</b>	<b>2,601</b>	<b>6,757</b>	<b>3,188</b>	<b>17,449</b>	<b>19,627</b>
<b>1979</b>	<b>Total</b>	<b>1,499</b>	<b>601</b>	<b>4,965</b>	<b>2,786</b>	<b>6,899</b>	<b>3,491</b>	<b>18,141</b>	<b>20,241</b>
<b>1980</b>	<b>Total</b>	<b>1,026</b>	<b>635</b>	<b>4,752</b>	<b>2,611</b>	<b>7,172</b>	<b>3,682</b>	<b>18,216</b>	<b>19,877</b>
<b>1981</b>	<b>Total</b>	<b>928</b>	<b>642</b>	<b>4,546</b>	<b>2,520</b>	<b>7,128</b>	<b>3,640</b>	<b>17,834</b>	<b>19,404</b>
<b>1982</b>	<b>Total</b>	<b>1,109</b>	<b>596</b>	<b>4,633</b>	<b>2,606</b>	<b>5,831</b>	<b>3,226</b>	<b>16,295</b>	<b>18,001</b>
<b>1983</b>	January	89	57	R718	R366	R537	208	1,829	1,975
	February	79	48	R694	R360	R284	177	1,515	1,642
	March	81	46	R541	R285	R430	208	1,464	1,591
	April	77	40	R464	R241	R348	203	1,256	1,373
	May	77	33	R277	R151	R362	218	1,008	1,118
	June	74	28	R181	R110	R333	248	872	974
	July	78	30	R134	R100	R378	314	926	1,034
	August	81	32	R123	R103	R421	352	999	1,112
	September	79	31	R128	R105	R429	299	961	1,071
	October	84	36	R179	R119	R577	251	1,126	1,246
	November	85	44	R330	R185	R645	214	1,374	1,503
	December	93	64	R612	R308	R896	218	2,034	2,191
	<b>Total</b>	<b>978</b>	<b>490</b>	<b>4,381</b>	<b>2,433</b>	<b>5,643</b>	<b>2,911</b>	<b>15,367</b>	<b>16,835</b>
<b>1984</b>	January	99	R65	R902	R440	R498	215	R2,055	R2,219
	February	86	R50	R714	R357	R308	187	R1,566	R1,702
	March	89	R53	R618	R314	R535	206	R1,673	R1,815
	April	87	R42	R474	R246	R363	220	R1,303	R1,432
	May	87	36	R293	R163	R395	R265	R1,116	R1,239
	June	84	32	R174	R111	R417	R298	R1,000	R1,116
	July	87	33	R131	R99	R449	349	R1,028	R1,148
	August	86	R34	R120	R100	R467	350	R1,037	R1,157
	September	82	R33	R129	R104	R479	291	R1,003	R1,118
	October	86	37	R186	R131	R559	270	R1,146	R1,269
	November	86	47	R329	R197	R710	245	R1,481	R1,614
	December	R93	R53	R577	R299	R577	217	R1,670	R1,816
	<b>Total</b>	<b>R1,052</b>	<b>R515</b>	<b>R4,647</b>	<b>R2,559</b>	<b>R5,757</b>	<b>R3,111</b>	<b>R16,078</b>	<b>R17,645</b>
<b>1985</b>	January	R94	66	R748	R374	R755	225	R2,102	R2,262
	February	85	54	R843	R411	R278	201	R1,733	R1,872
	March	R87	R47	R573	R293	R411	206	R1,483	R1,617
	April	86	39	405	208	385	233	1,231	1,356
	<b>Year to Date</b>	<b>352</b>	<b>206</b>	<b>2,569</b>	<b>1,286</b>	<b>1,827</b>	<b>865</b>	<b>6,547</b>	<b>7,105</b>

Revisions to the monthly residential and commercial consumption series since January 1983 reflect data now being collected on Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers." Since the monthly total consumption series for 1983 did not change, the monthly industrial series was adjusted so that the sums of the sectors would equal the totals.

<sup>1</sup>Includes supplemental gaseous fuels.

<sup>2</sup>Includes deliveries to local, State, and Federal agencies engaged in nonmanufacturing activities.

R = Revised data.

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

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

• Data for 1973 through December 1983 are final. All other data are preliminary unless otherwise indicated.

Sources: • See the last page of this section.



# Natural Gas

## Underground Natural Gas Storage—All Operators

		Natural Gas In Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
		Base Gas	Working Gas	Total <sup>1</sup>	Volume	Percent	Injections	Withdrawals	Net <sup>2</sup>
Volumes in billion cubic feet									
<b>1973</b>	<b>Total</b>	<b>2,864</b>	<b>2,034</b>	<b>4,898</b>	<b>305</b>	<b>17.6</b>	<b>1,974</b>	<b>1,533</b>	<b>441</b>
<b>1974</b>	<b>Total</b>	<b>2,912</b>	<b>2,050</b>	<b>4,962</b>	<b>16</b>	<b>0.8</b>	<b>1,784</b>	<b>1,701</b>	<b>83</b>
<b>1975</b>	<b>Total</b>	<b>3,162</b>	<b>2,212</b>	<b>5,374</b>	<b>162</b>	<b>7.9</b>	<b>2,104</b>	<b>1,760</b>	<b>344</b>
<b>1976</b>	<b>Total</b>	<b>3,323</b>	<b>1,926</b>	<b>5,250</b>	<b>-286</b>	<b>-12.9</b>	<b>1,756</b>	<b>1,921</b>	<b>-165</b>
<b>1977</b>	<b>Total</b>	<b>3,391</b>	<b>2,475</b>	<b>5,866</b>	<b>549</b>	<b>28.5</b>	<b>2,307</b>	<b>1,750</b>	<b>557</b>
<b>1978</b>	<b>Total</b>	<b>3,473</b>	<b>2,547</b>	<b>6,020</b>	<b>72</b>	<b>2.9</b>	<b>2,278</b>	<b>2,158</b>	<b>120</b>
<b>1979</b>	<b>Total</b>	<b>3,553</b>	<b>2,753</b>	<b>6,306</b>	<b>207</b>	<b>8.1</b>	<b>2,295</b>	<b>2,047</b>	<b>248</b>
<b>1980</b>	<b>Total</b>	<b>3,642</b>	<b>2,655</b>	<b>6,297</b>	<b>-99</b>	<b>-3.6</b>	<b>1,896</b>	<b>1,910</b>	<b>-14</b>
<b>1981</b>	<b>Total</b>	<b>3,752</b>	<b>2,817</b>	<b>6,569</b>	<b>162</b>	<b>6.1</b>	<b>2,180</b>	<b>1,887</b>	<b>293</b>
<b>1982</b>	<b>Total</b>	<b>3,808</b>	<b>3,071</b>	<b>6,879</b>	<b>255</b>	<b>9.0</b>	<b>2,399</b>	<b>2,094</b>	<b>306</b>
<b>1983</b>	January	3,813	2,644	6,457	462	21.2	24	449	-424
	February	3,811	2,356	6,167	569	31.9	36	325	-289
	March	3,812	2,148	5,959	544	33.9	59	266	-207
	April	3,818	2,074	5,893	398	23.8	82	160	-78
	May	3,818	2,222	6,041	188	9.3	191	40	151
	June	3,819	2,454	6,272	85	3.6	255	22	234
	July	3,826	2,696	6,522	-8	-0.3	268	25	243
	August	3,823	2,908	6,732	-89	-3.0	247	35	212
	September	3,823	3,141	6,964	-110	-3.4	258	26	232
	October	3,825	3,270	7,095	-94	-2.8	171	40	131
	November	3,841	3,175	7,015	-134	-4.1	80	158	-78
	December	3,847	2,595	6,442	-476	-15.5	29	597	-567
	<b>Total</b>						<b>1,700</b>	<b>2,142</b>	<b>-442</b>
<b>1984</b>	January	3,847	2,091	5,937	-553	-20.9	54	563	-509
	February	3,828	1,876	5,704	-480	-20.4	62	300	-238
	March	3,824	1,572	5,396	-575	-26.8	50	359	-308
	April	3,822	1,620	5,442	-454	-21.9	145	99	46
	May	3,827	1,843	5,670	-379	-17.1	258	30	227
	June	3,828	2,141	5,969	-313	-12.7	325	26	299
	July	3,829	2,456	6,285	-240	-8.9	341	28	313
	August	3,829	2,739	6,568	-169	-5.8	313	30	283
	September	3,829	2,996	6,825	-144	-4.6	287	30	257
	October	3,837	3,177	7,014	-92	-2.8	244	55	189
	November	R3,901	R3,017	R6,918	R-158	R-5.0	82	221	-139
	December	R3,831	R2,878	R6,710	R283	R10.9	R94	R302	R-208
	<b>Total</b>						<b>R2,255</b>	<b>R2,042</b>	<b>R214</b>
<b>1985</b>	January	R3,842	R2,245	R6,087	R154	R7.4	R35	R658	R-623
	February	3,842	R1,856	R5,698	R-20	R-1.1	R49	R438	-389
	March	3,836	1,746	5,582	174	11.0	R93	R208	-116
	April	3,831	1,862	5,693	242	14.9	R211	R99	112
	May	3,837	2,131	5,968	288	15.6	293	18	274

<sup>1</sup>Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1978—6,890; 1979—6,929; 1980—7,434; 1981—7,805; 1982—7,915; 1983—7,985; and 1984—8,043. Current total capacity is 8,069.

<sup>2</sup>Positive numbers indicate injections are greater than withdrawals. Negative numbers indicate withdrawals are greater than injections. Net injections or withdrawals may not equal the difference between applicable ending stocks. See Note 8 on the last two pages of this section. R = Revised data.

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

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

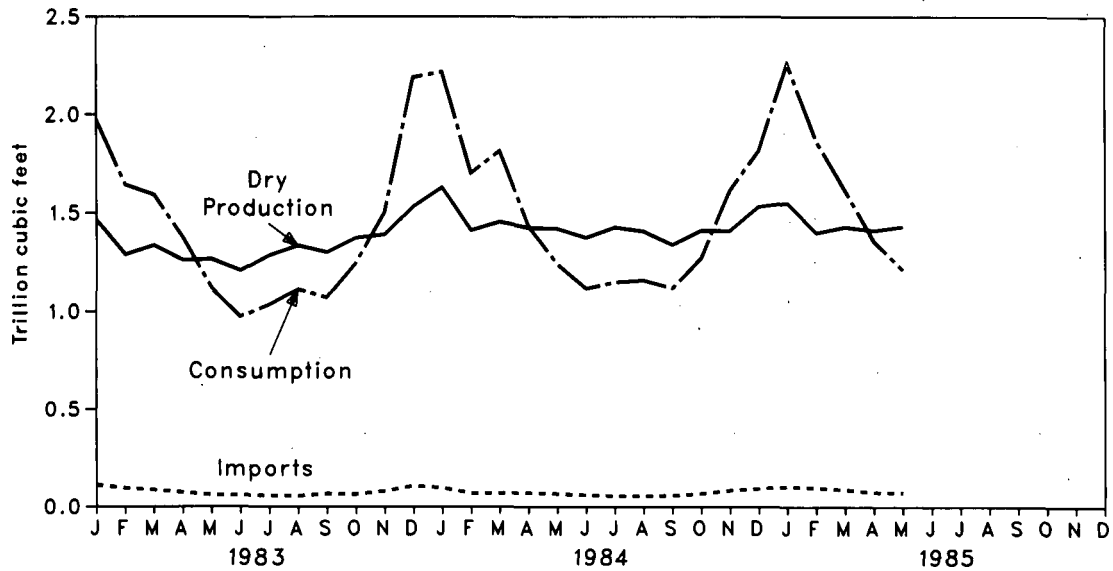
• Data for 1978 through 1983 are final. All other data are preliminary unless otherwise indicated.

Sources: • See the last page of this section.

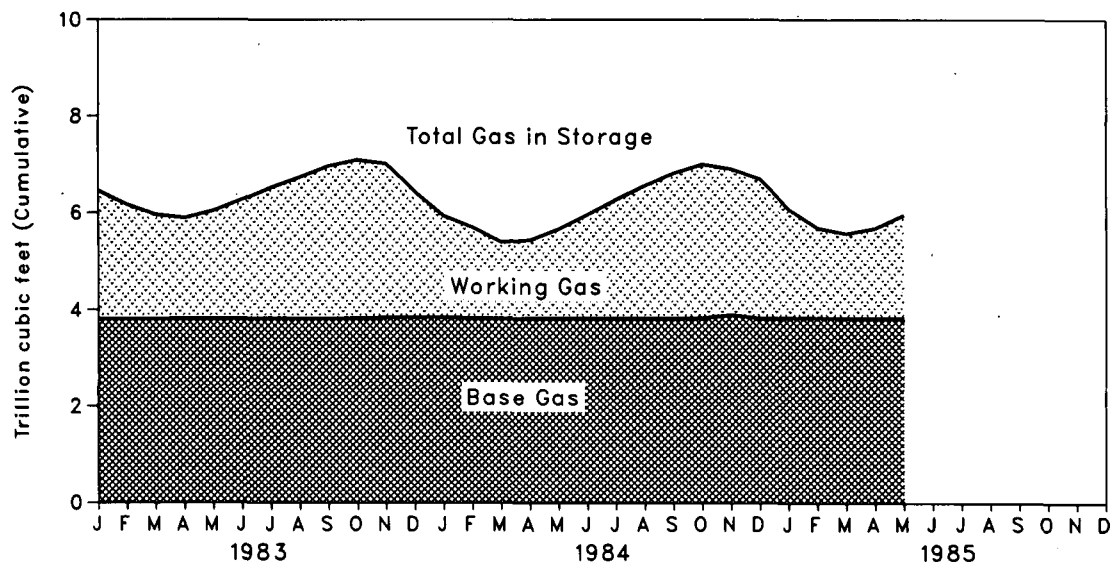
# Natural Gas

## Overview

### Consumption, Dry Production, and Imports



### Gas in Storage at End of Period



# Notes and Sources for the Natural Gas Section

## Notes

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**7. Unaccounted for:** The "Unaccounted for" category represents quantities lost; the net result of flow data metered at varying temperature and pressure conditions and converted to a standard temperature and pressure base; metering inaccuracies; differences between billing cycle and calendar period time frames; the effect of variations in company accounting and billing practices; and imbalances from EIA's merger of data reporting systems which vary in scope, format, definitions, and type of respondents. The increase of 167 billion cubic feet (Bcf) in the "Unaccounted for" category in 1983, as compared to 1982 figures, reflects unusually large differences resulting from the use of the annual billing cycle (nominally December 15, 1982, through December 15, 1983) for consumption data in conjunction with calendar year supply data. Record cold temperatures during the last half of December 1983 resulted in a reported 333-Bcf increase in net withdrawals from underground storage for peak shaving as compared with the same period in 1982, but the effect of this cold weather was only partially reflected in 1983 consumption data. For underground storage data, see Table F2 in the June 1984 *Natural Gas Monthly*, which was published in August 1984.

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

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

The final monthly and annual storage and withdrawal data for 1980 through 1983 include both underground and liquefied natural gas (LNG) storage. Underground storage data are taken from the FPC-8/EIA-191 survey in the following manner. Annual data on LNG additions and withdrawals are taken from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying it to annual LNG data.

## Notes and Sources for the Natural Gas Section (continued)

### Sources

**Production:** 1973 through 1983: Energy Information Administration (EIA), *Natural Gas Annual 1983*; January 1984 forward: State reports to the Interstate Oil Compact Commission, data from the U.S. Minerals Management Service, and EIA estimates for States that do not report monthly data on a regular or timely basis.

**Extraction Loss, Consumption, and Unaccounted For:** 1973 through 1983: EIA, *Natural Gas Annual 1983*; January 1984 forward: EIA computations.

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

**Supplemental Gaseous Fuels:** 1980 through 1983: EIA, *Natural Gas Annual 1983*; January 1984 forward: EIA computations.

**Imports and Exports:** 1973 through 1983: Form FPC-14, "Imports and Exports of Natural Gas"; January 1984 forward: EIA computations.

**End-Use Consumption:** • All data except electric utility—1973 through 1982 EIA, *Natural Gas Annual, 1983*; January 1983 forward: Form EIA-857, 'Monthly Report of Natural Gas Purchases and Deliveries to Consumers,' and EIA computations.

• Electric utility data—EIA, Form 759, "Monthly Power Plant Report" (formerly Form FPC-4).

**Underground Storage:** 1973 and 1974: American Gas Association, *Gas Facts*; 1975 through 1979: EIA, Form FPC-8 and Form EIA-191, and the *Natural Gas Annual*; 1980 forward: EIA, Form FPC-8, Form EIA-191, and Form 176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

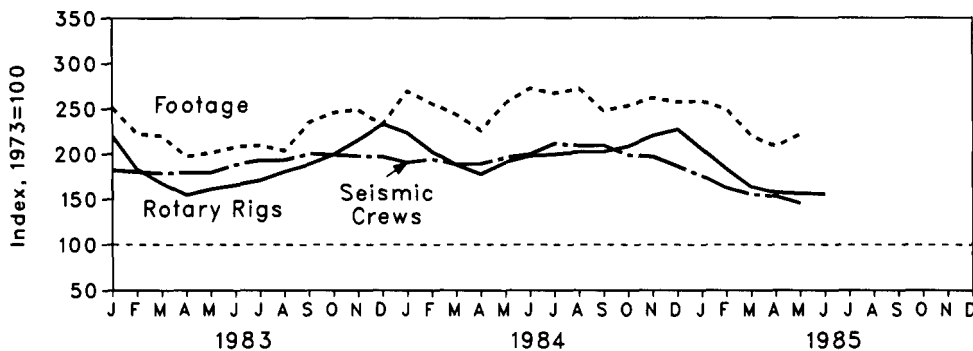
## Oil and Gas Resource Development

The 364 crews engaged in seismic exploration in May 1985 were 25.7 percent fewer than the seismic crews working in May 1984. The 41 marine vessels were 10.9 percent fewer and the 323 land crews were 27.3 percent fewer than those working in May 1984.

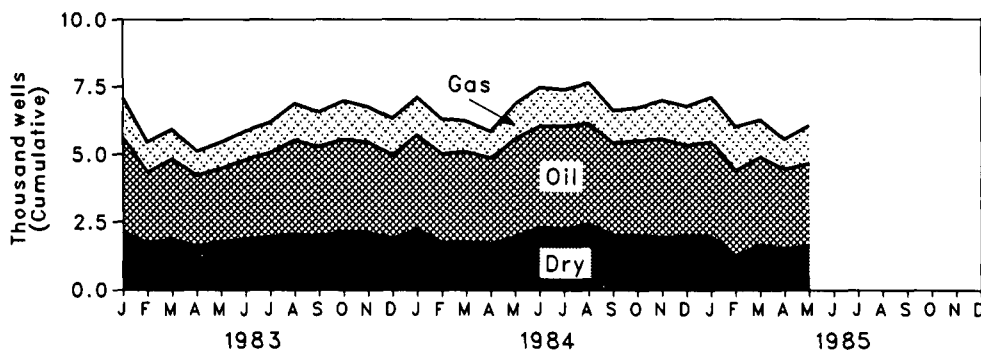
The June 1985 rotary rig count of 1,858 was 21.4 percent less than the June 1984 count of 2,363. The 203 rigs operating offshore during June 1985 were 2 rigs fewer than those working in June 1984.

Total well completions during May 1985 were an estimated 6,060, a decrease of 11.8 percent from the 6,870 wells estimated in May 1984. Oil well completions in May 1985 were an estimated 3,030, a 15.6-percent decrease from the comparable 1984 figure of 3,590 wells. Gas well completions were 1,390 in May 1985, an increase of 6.9 percent from the May 1984 figure of 1,300. Total footage drilled in May 1985 was 26.3 million feet, a decrease of 13.2 percent from the May 1984 figure of 30.3 million feet.

Seismic Crews and Rotary Rigs in Operation, and Footage Drilled



Exploratory and Development Well Completions



# Oil and Gas Resource Development

## Seismic Crews and Rotary Rigs

		Crews Engaged in Seismic Exploration			Rotary Rigs in Operation <sup>1</sup>		
		Offshore	Onshore	Total	Offshore	Onshore	Total
		Monthly average			Monthly average		
1973	Average	23	227	250	84	1,110	1,194
1974	Average	31	274	305	94	1,378	1,472
1975	Average	30	254	284	106	1,554	1,660
1976	Average	25	237	262	129	1,529	1,658
1977	Average	27	281	308	167	1,834	2,001
1978	Average	25	327	352	185	2,074	2,259
1979	Average	30	370	400	207	1,970	2,177
1980	Average	37	493	530	231	2,678	2,909
1981	Average	44	637	681	256	3,714	3,970
1982	Average	57	531	588	243	2,862	3,105
1983	January	49	407	456	218	2,404	2,622
	February	47	404	451	216	1,976	2,192
	March	45	402	447	210	1,793	2,003
	April	39	410	449	213	1,633	1,846
	May	39	410	449	209	1,717	1,926
	June	43	428	471	202	1,777	1,979
	July	46	437	483	178	1,861	2,039
	August	49	435	484	181	1,975	2,156
	September	57	444	501	175	2,077	2,252
	October	50	448	498	177	2,205	2,382
	November	49	446	495	159	2,413	2,572
	December	48	445	493	210	2,570	2,780
		<b>Average</b>	<b>47</b>	<b>426</b>	<b>473</b>	<b>196</b>	<b>2,033</b>
1984	January	50	427	477	216	2,450	2,666
	February	53	433	486	202	2,221	2,423
	March	47	424	471	198	2,047	2,245
	April	50	423	473	203	1,917	2,120
	May	46	444	490	202	2,075	2,277
	June	45	455	500	205	2,158	2,363
	July	47	482	529	206	2,180	2,386
	August	53	470	523	216	2,201	2,417
	September	52	472	524	214	2,206	2,420
	October	48	449	497	223	2,269	2,492
	November	49	444	493	232	2,397	2,629
	December	52	414	466	242	2,471	2,713
		<b>Average</b>	<b>49</b>	<b>445</b>	<b>494</b>	<b>213</b>	<b>2,215</b>
1985	January	46	393	439	242	2,210	2,452
	February	46	360	406	233	1,955	2,188
	March	48	340	388	223	1,732	1,955
	April	47	336	383	210	1,667	1,877
	May	41	323	364	200	1,665	1,865
	June	NA	NA	NA	203	1,653	1,858
		<b>Average<sup>2</sup></b>	<b>46</b>	<b>350</b>	<b>396</b>	<b>218</b>	<b>1,814</b>

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

<sup>2</sup>Average of available data.

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

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

Sources: • Crews Engaged: Society of Exploration Geophysicists, "Monthly Seismic Crew Count" and annual reports published in their bulletins, *Geophysics* and *Leading Edge*. • Rotary Rigs: Hughes Tool Company, "Rotary Rigs Running—by State."

# Oil and Gas Resource Development

## Exploratory and Development Wells and Footage Drilled

		Exploratory and Development Well Completions <sup>1</sup>				Total Footage <sup>1</sup>
		Oil	Gas	Dry	Total	Total Footage <sup>1</sup>
		Thousand wells				Million feet
<b>1973</b>	<b>Total</b>	<b>10.25</b>	<b>6.97</b>	<b>10.46</b>	<b>27.68</b>	<b>139.42</b>
<b>1974</b>	<b>Total</b>	<b>13.67</b>	<b>7.17</b>	<b>12.22</b>	<b>33.05</b>	<b>153.85</b>
<b>1975</b>	<b>Total</b>	<b>16.98</b>	<b>8.17</b>	<b>13.75</b>	<b>38.90</b>	<b>181.16</b>
<b>1976</b>	<b>Total</b>	<b>17.69</b>	<b>9.42</b>	<b>13.85</b>	<b>40.95</b>	<b>187.37</b>
<b>1977</b>	<b>Total</b>	<b>18.72</b>	<b>12.13</b>	<b>15.06</b>	<b>45.91</b>	<b>216.14</b>
<b>1978</b>	<b>Total</b>	<b>19.07</b>	<b>14.42</b>	<b>16.63</b>	<b>50.12</b>	<b>238.70</b>
<b>1979</b>	<b>Total</b>	<b>20.73</b>	<b>15.22</b>	<b>16.09</b>	<b>52.05</b>	<b>244.36</b>
<b>1980</b>	<b>Total</b>	<b>32.28</b>	<b>17.25</b>	<b>20.32</b>	<b>69.86</b>	<b>312.72</b>
<b>1981</b>	<b>Total</b>	<b>42.99</b>	<b>20.03</b>	<b>27.24</b>	<b>90.26</b>	<b>409.82</b>
<b>1982</b>	<b>Total</b>	<b>39.01</b>	<b>18.79</b>	<b>26.38</b>	<b>84.19</b>	<b>378.27</b>
<b>1983</b>	January	3.48	1.45	2.14	7.07	29.78
	February	2.60	1.11	1.74	5.44	23.77
	March	2.95	1.09	1.88	5.92	26.04
	April	2.62	0.89	1.60	5.12	22.60
	May	2.70	0.96	R1.78	R5.43	R23.86
	June	2.93	1.05	1.88	5.87	23.83
	July	3.11	1.11	1.95	6.17	24.81
	August	3.46	1.35	2.06	6.86	27.16
	September	3.30	1.28	1.98	6.56	26.88
	October	3.38	1.43	2.16	6.96	29.09
	November	3.33	1.30	2.12	6.75	28.57
	December	3.06	1.36	1.90	6.32	27.49
	<b>Total</b>	<b>36.94</b>	<b>14.37</b>	<b>R23.19</b>	<b>R74.47</b>	<b>R313.88</b>
<b>1984</b>	January	3.47	1.39	2.24	7.11	31.90
	February	3.25	1.29	1.77	6.31	28.33
	March	3.33	1.13	1.76	6.22	28.86
	April	3.15	0.97	1.72	5.84	25.89
	May	R3.59	R1.30	1.97	R6.87	R30.29
	June	3.72	1.44	2.30	7.45	31.23
	July	3.78	1.34	2.26	7.39	31.63
	August	3.71	1.50	2.42	7.63	32.22
	September	3.40	1.19	2.03	6.62	28.40
	October	3.49	1.22	2.01	6.72	30.00
	November	R3.62	R1.42	R1.94	R6.97	R30.01
	December	3.33	1.44	2.00	6.77	30.47
	<b>Total</b>	<b>R41.84</b>	<b>R15.63</b>	<b>R24.42</b>	<b>R81.90</b>	<b>R359.23</b>
<b>1985</b>	January	3.48	R1.65	1.98	R7.11	30.60
	February	3.11	R1.61	1.29	R6.01	R26.68
	March	3.23	R1.37	1.67	R6.27	26.05
	April	2.91	1.10	1.54	5.55	23.92
	May	3.03	1.39	1.64	6.06	26.29
	<b>Year to Date</b>	<b>15.76</b>	<b>5.92</b>	<b>8.12</b>	<b>29.80</b>	<b>131.14</b>

Statistics shown on this page were developed using a computer model that estimates well completions and associated footage. See the explanation of changes on the last two pages of this section.

<sup>1</sup>Data exclude service wells and stratigraphic and core tests.

R=Revised data.

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

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

• Due to the method of estimation, data shown on this page are frequently revised. See the last two pages of this section for further explanation.

Source: • Energy Information Administration computations based on well reports submitted to the American Petroleum Institute. See the last two pages of this section for further explanation.

## Explanation of Changes in the Oil and Gas Resource Development Section

The data series on rotary rigs in operation is now shown in onshore and offshore categories. The annual line-miles of seismic exploration data series have been discontinued in the *Monthly Energy Review* because there are no monthly data available. However, those data are published in the *Annual Energy Review*.

Beginning in the March 1985 *Monthly Energy Review* (MER), the Energy Information Administration (EIA) revised the exploratory and development wells drilled data series. In order to present a consistent series, historical as well as current statistics have been adjusted.

In previous issues, the MER published statistics based on data on well completions reported to the American Petroleum Institute during a given month, as opposed to data on wells actually completed during the month. Because of the time lag from date of well completion to date of reporting, data on well completions reported are not as accurate an indicator of drilling activity as are data on well completions. For example, during 1982 well completions reported continued to rise even though the number of wells actually completed fell. Starting in the March 1985 issue of the MER, published figures have been EIA estimates of the number of wells actually completed in a given month and are shown in thousands, rounded to two decimal places. The associated footage drilled is shown in millions, also rounded to two decimal places.

The EIA estimates are calculated using an adjustment process model that imputes total well counts and footage by type and class based on partial counts of well completions available from the reported data. That is, based on statistical analysis of the incomplete reported data, the model imputes the missing portions to determine values for total well completions and footage. Estimates for a given month

are first published in the MER for that month, that is, estimates for June 1984 are first published in the June 1984 MER. Revisions to the estimates are scheduled for the 6th, 12th, and 24th months following initial publication, as newly reported data refine the accuracy of the estimate. Unscheduled revisions to the published data will also be made when the latest estimate differs by more than 15 percent during the first 5 months, more than 10 percent during the next 6 months, more than 5 percent during the following 6 months, or more than 2 percent thereafter through 5 years. After 5 years, the actual reported data will be published.

The three well types considered in the model are oil, gas, and dry. By convention, wells with both oil and gas zones are categorized as oil. Well classes in the model are either development or exploratory; wells in any other class have been deleted. Exploratory well categories considered are new field wildcat, new pool wildcat, deeper pool test, shallower pool test, or extension (American Association of Petroleum Geologists well classification codes 1 through 5).

Analysis of the reported data for completion years 1970 through 1982 showed that the average cumulative coverage within 36 months was 99.2 percent, that is, almost all wells were reported within 3 years after completion. The analysis further showed that 65.6 percent were reported within 3 months, 83.1 percent within 6 months, and 92.9 percent within 1 year after completion. Over that time period, however, the reporting process slowed. For instance, in 1971, 75 percent of the completions were reported by the end of the following month. By 1981, only 33 percent of the completions were reported within that time.

Additional information may be obtained from "Estimating Well Completions," the feature article published in the March 1985 *Monthly Energy Review*.



## Explanation of Changes in the Oil and Gas Resource Development Section (Continued)

		Previous Series					New Series				
		Exploratory and Development Wells Drilled <sup>1</sup>				Total Footage Thousand feet	Exploratory and Development Well Completions <sup>2</sup>				Total Footage Million feet
		Oil	Gas	Dry	Total		Oil	Gas	Dry	Total	
		Number of wells				Thousand wells					
1973	Total	9,902	6,385	10,305	26,592	136,391	10.25	6.97	10.46	27.68	139.42
1974	Total	12,784	7,240	11,674	31,698	150,551	13.67	7.17	12.22	33.05	153.85
1975	Total	16,408	7,580	13,247	37,235	174,434	16.98	8.17	13.75	38.90	181.16
1976	Total	17,059	9,085	13,621	39,765	181,780	17.68	9.42	13.85	40.95	187.37
1977	Total	18,912	11,378	14,692	44,982	210,848	18.72	12.13	15.06	45.91	216.14
1978	Total	17,775	13,064	16,218	47,057	227,110	19.07	14.42	16.63	50.12	238.70
1979	Total	19,383	14,681	15,752	49,816	238,659	20.73	15.22	16.09	52.05	244.36
1980	Total	27,026	15,730	18,089	60,845	284,461	32.28	17.25	20.32	69.86	312.72
1981	Total	37,671	17,894	22,973	78,538	361,407	42.99	20.03	27.24	90.26	409.82
1982	Total	40,301	18,952	26,542	85,795	395,993	39.01	18.79	26.38	84.19	378.27
1983	January	2,376	891	1,640	4,907	20,922	3.48	1.45	2.14	7.07	29.78
	February	2,885	1,184	2,211	6,280	27,659	2.60	1.11	1.74	5.44	23.77
	March	3,433	1,607	2,630	7,670	34,210	2.95	1.09	1.88	5.92	26.04
	April	3,031	1,403	1,979	6,413	27,423	2.62	0.89	1.60	5.12	22.60
	May	3,187	1,747	1,830	6,764	28,564	2.70	0.96	R1.78	R5.43	R23.86
	June	3,523	1,242	2,113	6,878	28,154	2.93	1.05	1.88	5.87	23.83
	July	2,689	1,127	1,639	5,455	22,970	3.11	1.11	1.95	6.17	24.81
	August	2,641	1,080	1,535	5,256	22,634	3.46	1.35	2.06	6.86	27.16
	September	3,736	1,282	2,016	7,034	30,374	3.30	1.28	1.98	6.56	26.88
	October	2,976	1,221	1,702	5,899	24,965	3.38	1.43	2.16	6.96	29.09
	November	3,240	1,145	1,990	6,375	26,833	3.33	1.30	2.12	6.75	28.57
	December	3,490	1,699	2,209	7,398	31,051	3.06	1.36	1.90	6.32	27.49
	<b>Total</b>	<b>37,207</b>	<b>15,628</b>	<b>23,494</b>	<b>76,329</b>	<b>325,760</b>	<b>36.94</b>	<b>14.37</b>	<b>R23.19</b>	<b>R74.47</b>	<b>R313.88</b>
1984	January	R3,253	R1,058	R2,004	R6,315	R27,915	3.47	1.39	2.24	7.11	31.90
	February	3,212	1,425	2,123	6,760	27,623	3.25	1.29	1.77	6.31	28.33
	March	4,092	1,373	2,941	8,406	34,156	3.33	1.13	1.76	6.22	28.86
	April	2,821	1,162	1,690	5,673	26,234	3.15	0.97	1.72	5.84	25.89
	May	3,137	1,155	1,637	5,929	26,417	R3.59	R1.30	1.97	R6.87	R30.29
	June	3,723	1,362	2,298	7,383	32,174	3.72	1.44	2.30	7.45	31.23
	July	2,629	1,138	1,831	5,598	25,454	3.78	1.34	2.26	7.39	31.63
	August	3,968	1,421	2,121	7,510	31,612	3.71	1.50	2.42	7.63	32.22
	September	3,946	1,332	2,900	8,178	32,867	3.40	1.19	2.03	6.62	28.40
	October	3,434	1,238	2,058	6,730	28,065	3.49	1.22	2.01	6.72	30.00
	November	3,131	1,071	1,695	5,897	24,287	R3.62	R1.42	R1.94	R6.97	R30.01
	December	3,718	1,955	1,924	7,597	31,431	3.33	1.44	2.00	6.77	30.47
	<b>Total</b>	<b>41,064</b>	<b>15,692</b>	<b>25,223</b>	<b>81,979</b>	<b>348,235</b>	<b>R41.84</b>	<b>R15.63</b>	<b>R24.42</b>	<b>R81.90</b>	<b>R359.23</b>
1985	January	2,440	1,054	1,479	4,973	22,319	3.48	R1.65	1.98	R7.11	30.60
	February	3,128	1,150	1,867	6,145	27,250	3.11	R1.61	1.29	R6.01	R26.68
	March	3,965	1,422	2,921	8,308	37,424	3.23	R1.37	1.67	R6.27	26.05
	April	3,341	1,615	1,980	7,026	33,142	2.91	1.10	1.54	5.55	23.92
	May	3,921	1,767	1,131	6,819	28,571	3.03	1.39	1.64	6.06	26.29

<sup>1</sup>Data exclude service wells and stratigraphic and core tests.

<sup>2</sup>Prior to 1984, weekly data are aggregated into months within quarters using the following number of weeks in the 12 months—(4,4,5), (4,4,5), (4,4,5), and (4,4,5). In 1984, weekly data are aggregated into months differently to more closely represent the actual number of weeks in the calendar months—(5,4,5), (4,4,5), (4,5,4), and (4,4,5). Totals reflect subsequent data revisions and therefore may not agree with cumulative monthly data.

<sup>3</sup>Totals may not equal the sum of components due to independent rounding.

R=Revised data.

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

Sources: • Previous Series: 1973 through 1984—American Petroleum Institute, "Monthly Drilling Report" and "Quarterly Review of Drilling Statistics for the United States"; 1985—Energy Information Administration aggregation of American Petroleum Institute data using their pre-1985 methodology.

• New Series: Energy Information Administration computations based on well reports submitted to the American Petroleum Institute.

## Coal

Coal production in May 1985 was 77.3 million short tons, 3.6 percent less than the 80.2 million short tons produced in May 1984.

Electric utility coal consumption in April 1985 totaled 50.9 million short tons, 6.9 percent more than consumption in April 1984.

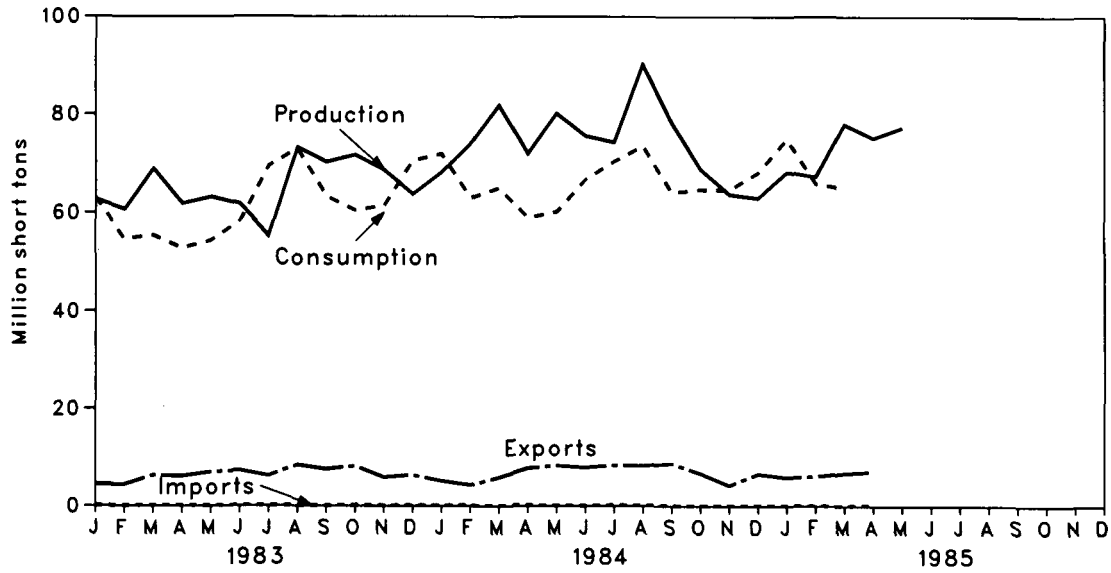
Electric utility coal stocks of 171.7 million short tons at the end of April 1985 were 6.1 million short tons (3.7 percent) above the level 1 year earlier.

Imports of coal in April 1985 totaled 203,000 short tons, 55,000 short tons more than the amount imported in April 1984. Exports of coal in April 1985 totaled 7.1 million short tons, 8.1 percent less than the amount exported during April 1984. Coal exports in April 1985 were principally to Europe (46.5 percent), Canada (17.6 percent), and Japan (17.4 percent).

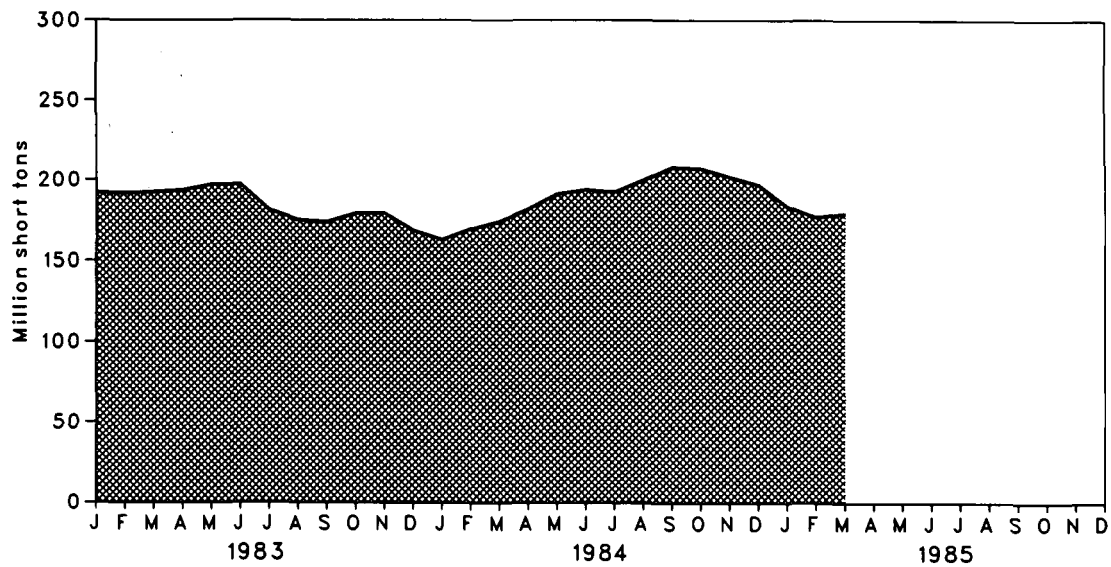
# Coal

## Overview

### Production, Consumption, Imports, and Exports



### Stocks at End of Period



# Coal

## Overview

		Production	Consumption	Imports	Exports <sup>1</sup>	Stocks <sup>2</sup>
Thousand short tons						
<b>1973</b>	<b>Total</b>	<b>598,568</b>	<b>562,584</b>	<b>127</b>	<b>53,587</b>	<b>104,335</b>
<b>1974</b>	<b>Total</b>	<b>610,023</b>	<b>558,402</b>	<b>2,080</b>	<b>60,661</b>	<b>96,323</b>
<b>1975</b>	<b>Total</b>	<b>654,641</b>	<b>562,641</b>	<b>940</b>	<b>66,309</b>	<b>128,050</b>
<b>1976</b>	<b>Total</b>	<b>684,913</b>	<b>603,790</b>	<b>1,203</b>	<b>60,021</b>	<b>134,438</b>
<b>1977</b>	<b>Total</b>	<b>697,205</b>	<b>625,291</b>	<b>1,647</b>	<b>54,312</b>	<b>157,098</b>
<b>1978</b>	<b>Total</b>	<b>670,164</b>	<b>625,225</b>	<b>2,953</b>	<b>40,714</b>	<b>145,551</b>
<b>1979</b>	<b>Total</b>	<b>781,134</b>	<b>680,524</b>	<b>2,059</b>	<b>66,042</b>	<b>181,646</b>
<b>1980</b>	<b>Total</b>	<b>829,700</b>	<b>702,729</b>	<b>1,194</b>	<b>91,742</b>	<b>204,028</b>
<b>1981</b>	<b>Total</b>	<b>823,775</b>	<b>732,627</b>	<b>1,043</b>	<b>112,541</b>	<b>185,274</b>
<b>1982</b>	<b>Total</b>	<b>838,112</b>	<b>706,911</b>	<b>742</b>	<b>106,277</b>	<b>195,254</b>
<b>1983</b>	January	62,731	63,019	78	4,471	191,902
	February	60,654	54,692	71	4,382	191,574
	March	68,896	55,434	120	6,291	192,315
	April	61,837	52,816	144	6,115	193,402
	May	63,210	54,327	102	6,952	196,982
	June	61,797	58,237	133	7,279	197,033
	July	55,213	69,478	87	6,140	181,222
	August	73,291	72,947	115	8,380	175,067
	September	70,312	63,317	97	7,525	173,743
	October	71,754	60,454	190	8,131	179,166
	November	68,684	61,411	32	5,838	179,281
	December	63,713	70,541	102	6,269	168,654
	<b>Total</b>	<b>782,091</b>	<b>736,672</b>	<b>1,271</b>	<b>77,772</b>	
<b>1984</b>	January†	68,154	71,919	81	5,062	162,943
	February†	73,933	62,994	140	4,251	169,617
	March†	81,864	65,028	55	5,813	174,283
	April†	71,939	58,946	148	7,688	181,900
	May†	80,204	60,164	72	8,221	191,280
	June†	75,586	66,707	49	7,828	194,065
	July†	74,299	70,422	193	8,318	192,657
	August†	90,163	73,558	147	8,235	200,143
	September†	78,394	64,133	95	8,710	208,019
	October†	68,933	64,664	104	6,641	R207,186
	November†	63,729	64,613	68	4,190	R202,075
	December†	62,946	68,147	134	6,526	R197,210
	<b>Total†</b>	<b>890,143</b>	<b>791,296</b>	<b>1,286</b>	<b>81,483</b>	
<b>1985</b>	January†	R68,259	74,978	126	5,817	183,530
	February†	R67,319	65,881	101	6,030	177,004
	March†	R77,989	64,892	103	6,696	179,363
	April†	75,195	NA	203	7,065	NA
	May†	77,340	NA	NA	NA	NA

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

<sup>2</sup>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, and stocks held by coal producers and distributors.

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

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

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

• See Note on the last page of this section for methodology used to calculate production, consumption, and stocks.

Sources: • See the last page of this section.

# Coal

## Consumption by End-Use Sector

		Industrial				
		Electric Utilities	Coke Plants	Other Industrial <sup>1</sup> Including Transportation	Residential and Commercial	Total
		Thousand short tons				
1973	Total	389,212	94,101	68,154	11,117	562,584
1974	Total	391,811	90,191	64,983	11,417	558,402
1975	Total	405,962	83,598	63,670	9,410	562,641
1976	Total	448,371	84,704	61,799	8,916	603,790
1977	Total	477,126	77,739	61,472	8,954	625,291
1978	Total	481,235	71,394	63,085	9,511	625,225
1979	Total	527,051	77,368	67,717	8,388	680,524
1980	Total	569,274	66,657	60,347	6,451	702,729
1981	Total	596,797	61,014	67,395	7,421	732,627
1982	Total	593,666	40,908	64,097	8,240	706,911
1983	January	53,351	2,813	5,970	884	63,019
	February	45,772	2,742	5,405	773	54,692
	March	47,110	2,567	5,206	551	55,434
	April	43,589	3,206	5,254	767	52,816
	May	45,691	3,151	5,023	463	54,327
	June	50,338	2,734	4,798	367	58,237
	July	60,390	3,269	5,220	599	69,478
	August	63,767	3,252	5,362	566	72,947
	September	54,212	3,196	5,156	752	63,317
	October	50,689	3,307	5,659	799	60,454
	November	51,185	3,335	6,046	845	61,411
	December	59,117	3,461	6,880	1,082	70,541
	<b>Total</b>	<b>625,211</b>	<b>37,033</b>	<b>65,980</b>	<b>8,448</b>	<b>736,672</b>
1984	January	60,225	3,791	6,858	1,045	71,919
	February	52,257	3,592	6,230	915	62,994
	March	54,534	3,843	5,999	652	65,028
	April	47,565	4,180	6,273	928	58,946
	May	49,507	4,100	5,997	560	60,164
	June	56,971	3,564	5,729	443	66,707
	July	60,359	3,639	5,730	694	70,422
	August	63,396	3,620	5,886	656	73,558
	September	54,045	3,557	5,659	872	64,133
	October	54,753	3,317	5,902	692	64,664
	November	54,229	3,346	6,305	733	64,613
	December	56,560	3,473	7,176	938	68,147
	<b>Total</b>	<b>664,399</b>	<b>44,022</b>	<b>73,745</b>	<b>9,130</b>	<b>791,296</b>
1985	January†	63,629	3,463	7,063	823	74,978
	February†	55,463	3,282	6,416	720	65,881
	March†	54,690	3,511	6,178	513	64,892
	April†	50,854	NA	NA	NA	NA

<sup>1</sup>See Note on the last page of this section.

†Preliminary data. NA=Not available.

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

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

Sources: • See the last page of this section.

# Coal

## Stocks by End-Use Sector at End of Period

		Electric Utilities	Industrial		Total <sup>1</sup>
			Coke Plants	Other Industrial	
Thousand short tons					
<b>1973</b>	<b>Year</b>	<b>86,967</b>	<b>6,998</b>	<b>10,370</b>	<b>104,335</b>
<b>1974</b>	<b>Year</b>	<b>83,509</b>	<b>6,209</b>	<b>6,605</b>	<b>96,323</b>
<b>1975</b>	<b>Year</b>	<b>110,724</b>	<b>8,797</b>	<b>8,529</b>	<b>128,050</b>
<b>1976</b>	<b>Year</b>	<b>117,436</b>	<b>9,902</b>	<b>7,100</b>	<b>134,438</b>
<b>1977</b>	<b>Year</b>	<b>133,219</b>	<b>12,816</b>	<b>11,063</b>	<b>157,098</b>
<b>1978</b>	<b>Year</b>	<b>128,225</b>	<b>8,278</b>	<b>9,048</b>	<b>145,551</b>
<b>1979</b>	<b>Year</b>	<b>159,714</b>	<b>10,155</b>	<b>11,777</b>	<b>181,646</b>
<b>1980</b>	<b>Year</b>	<b>183,010</b>	<b>9,067</b>	<b>11,951</b>	<b>204,028</b>
<b>1981</b>	<b>Year</b>	<b>168,893</b>	<b>6,475</b>	<b>9,906</b>	<b>185,274</b>
<b>1982</b>	<b>Year</b>	<b>181,132</b>	<b>4,642</b>	<b>9,479</b>	<b>195,254</b>
<b>1983</b>	January	178,604	4,338	8,960	191,902
	February	179,101	4,034	8,439	191,574
	March	180,671	3,728	7,916	192,315
	April	181,371	4,089	7,942	193,402
	May	184,567	4,450	7,965	196,982
	June	184,236	4,812	7,985	197,033
	July	168,566	4,489	8,167	181,222
	August	162,557	4,165	8,345	175,067
	September	161,384	3,842	8,518	173,743
	October	166,574	4,010	8,582	179,166
	November	166,457	4,178	8,645	179,281
	December	155,598	4,346	8,710	168,654
<b>1984</b>	January	149,403	4,947	8,593	162,943
	February	155,593	5,548	8,476	169,617
	March	159,775	6,149	8,359	174,283
	April	165,592	7,171	9,137	181,900
	May	173,171	8,194	9,915	191,280
	June	174,155	9,217	10,693	194,065
	July	171,095	9,658	11,904	192,657
	August	176,928	10,099	13,116	200,143
	September	183,151	10,541	14,327	208,019
	October	184,779	9,083	R13,324	R207,186
	November	182,130	7,625	R12,320	R202,075
	December	179,727	6,166	R11,317	R197,210
<b>1985</b>	January†	167,524	5,583	10,423	183,530
	February†	162,476	4,999	9,529	177,004
	March†	166,313	4,415	8,635	179,363
	April†	171,651	NA	NA	NA

<sup>1</sup>Total excludes stocks at retail dealers that are consumed by the residential and commercial sector, and stocks held by producers and distributors.

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

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

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

Sources: • See the last page of this section.

# Notes and Sources for the Coal Section

## Notes

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

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

**2. Consumption:** Both monthly and quarterly consumption for electric utility plants are taken directly from reported data. Prior to 1980, monthly consumption at coke plants was also taken directly from reported data. Since that time, it has been estimated by proportioning reported quarterly data using the ratios of monthly to quarterly consumption in 1979, the last year in which monthly data were reported. Quarterly consumption is taken directly from reported data.

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

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

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

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

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

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

## Sources

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

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

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

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

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

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

**Imports and Exports:** Bureau of the Census, U.S. Department of Commerce, Monthly Reports IM-145 (Imports) and EM-522 (Exports).

## Electric Utilities

During April 1985, electric utilities generated 184.7 billion kilowatt-hours of electricity, 2.0 percent above the April 1984 generation level. Coal-fired generation totaled 104.7 billion kilowatt-hours, 7.3 percent above the April 1984 level. Nuclear generation totaled 26.5 billion kilowatt-hours, 9.2 percent above the April 1984 level. Hydroelectric generation was 24.4 billion kilowatt-hours in April 1985, 18.7 percent below the April 1984 level. Natural gas-fired generation was 22.4 billion kilowatt-hours, 5.7 percent above the level 1 year earlier. Petroleum-fired generation totaled 6.0 billion kilowatt-hours, 19.3 percent below the April 1984 level.

Sales of electricity to all ultimate consumers in the United States in April 1985 were 177.3 billion kilowatt-hours, 1.4 percent above April 1984 sales. Sales to residential consumers during April 1985 were 56.0 billion kilowatt-hours, 0.6 percent below the level of sales during the same month in 1984. Commercial sales were 45.8 billion kilowatt-hours, 6.4 percent more than the amount sold to commer-

cial consumers in April 1984. Sales to industrial consumers totaled 68.4 billion kilowatt-hours in April 1985, 0.9 percent less than the 1984 figure. In April 1985, other sales totaled 7.0 billion kilowatt-hours, 11.2 percent above the April 1984 level.

Electric utility petroleum consumption (excluding petroleum coke) during April 1985 was 10.5 million barrels, 18.2 percent below the April 1984 level. Coal consumption during April 1985 was 50.9 million short tons, 6.9 percent above the April 1984 rate. During April 1985, electric utilities consumed 233.2 billion cubic feet of natural gas, 6.0 percent above the April 1984 consumption level.

On April 30, 1985, utility stocks of anthracite, bituminous coal, and lignite totaled 171.7 million short tons. Stockpiles were 3.7 percent above the level of April 30, 1984. Petroleum stocks (excluding petroleum coke) on April 30, 1985, totaled 78.2 million barrels, 10.7 percent below the level on the same date in 1984.



# Electric Utilities

## Net Electricity Generation by Primary Energy Source

		Coal	Petroleum <sup>1</sup>	Natural Gas <sup>2</sup>	Nuclear Electric Power	Hydro-electric Power	Other <sup>3</sup>	Total
Million kilowatthours								
<b>1973</b>	<b>Total</b>	<b>847,651</b>	<b>314,343</b>	<b>340,858</b>	<b>83,479</b>	<b>272,083</b>	<b>2,294</b>	<b>1,860,710</b>
<b>1974</b>	<b>Total</b>	<b>828,433</b>	<b>300,931</b>	<b>320,065</b>	<b>113,976</b>	<b>301,032</b>	<b>2,703</b>	<b>1,867,140</b>
<b>1975</b>	<b>Total</b>	<b>852,786</b>	<b>289,095</b>	<b>299,778</b>	<b>172,505</b>	<b>300,047</b>	<b>3,437</b>	<b>1,917,649</b>
<b>1976</b>	<b>Total</b>	<b>944,391</b>	<b>319,988</b>	<b>294,624</b>	<b>191,104</b>	<b>283,707</b>	<b>3,883</b>	<b>2,037,696</b>
<b>1977</b>	<b>Total</b>	<b>985,219</b>	<b>358,179</b>	<b>305,505</b>	<b>250,883</b>	<b>220,475</b>	<b>4,063</b>	<b>2,124,323</b>
<b>1978</b>	<b>Total</b>	<b>975,742</b>	<b>365,060</b>	<b>305,391</b>	<b>276,403</b>	<b>280,419</b>	<b>3,315</b>	<b>2,206,331</b>
<b>1979</b>	<b>Total</b>	<b>1,075,037</b>	<b>303,525</b>	<b>329,485</b>	<b>255,155</b>	<b>279,783</b>	<b>4,387</b>	<b>2,247,372</b>
<b>1980</b>	<b>Total</b>	<b>1,161,562</b>	<b>245,994</b>	<b>346,240</b>	<b>251,116</b>	<b>276,021</b>	<b>5,506</b>	<b>2,286,439</b>
<b>1981</b>	<b>Total</b>	<b>1,203,203</b>	<b>206,421</b>	<b>345,777</b>	<b>272,674</b>	<b>260,684</b>	<b>6,054</b>	<b>2,294,812</b>
<b>1982</b>	<b>Total</b>	<b>1,192,004</b>	<b>146,797</b>	<b>305,260</b>	<b>282,773</b>	<b>309,213</b>	<b>5,164</b>	<b>2,241,211</b>
<b>1983</b>	January	108,164	12,880	19,721	25,073	29,235	506	195,579
	February	92,692	12,586	16,659	22,198	27,950	395	172,479
	March	95,598	12,556	19,686	23,890	30,302	455	182,488
	April	88,114	10,337	19,174	22,335	29,989	424	170,372
	May	91,296	9,050	20,445	22,051	31,194	356	174,392
	June	101,512	11,139	23,091	24,152	30,692	462	191,048
	July	121,560	14,710	29,615	25,602	28,113	565	220,165
	August	129,313	14,731	33,147	26,201	25,828	738	229,957
	September	108,868	11,299	28,040	25,007	21,712	678	195,604
	October	101,951	9,941	23,783	25,797	20,747	712	182,931
	November	103,225	9,229	20,169	25,010	24,678	637	182,949
	December	117,131	16,041	20,567	26,361	31,691	528	212,319
	<b>Total</b>	<b>1,259,424</b>	<b>144,499</b>	<b>274,098</b>	<b>293,677</b>	<b>332,130</b>	<b>6,456</b>	<b>2,310,285</b>
<b>1984</b>	January	120,850	15,939	20,245	29,313	29,737	547	216,632
	February	104,706	10,053	17,827	28,436	27,900	643	189,564
	March	111,158	10,806	19,645	27,345	30,435	719	200,107
	April	97,542	7,450	21,197	24,231	29,970	695	181,084
	May	100,139	8,422	25,304	25,867	31,814	673	192,217
	June	115,426	11,152	28,345	25,299	28,773	654	209,648
	July	121,094	10,397	33,327	28,284	27,495	648	221,245
	August	127,744	12,836	33,292	29,493	25,137	794	229,296
	September	108,862	7,713	27,839	29,146	20,911	728	195,198
	October	110,801	7,874	25,783	24,774	20,887	819	190,936
	November	109,759	9,232	23,728	24,575	22,259	827	190,380
	December	113,601	7,935	20,863	30,872	25,834	892	199,996
	<b>Total</b>	<b>1,341,681</b>	<b>119,808</b>	<b>297,394</b>	<b>327,634</b>	<b>321,150</b>	<b>8,638</b>	<b>2,416,304</b>
<b>1985</b>	January	129,066	12,076	22,001	36,186	27,498	906	227,733
	February	111,994	9,264	19,370	30,809	25,880	803	198,121
	March	111,223	7,116	19,813	31,041	24,583	930	194,707
	April	104,706	6,015	22,409	26,458	24,370	783	184,740

<sup>1</sup>Includes fuel oil No. 2, No. 4, No. 5, No. 6, crude oil, kerosene, and petroleum coke.

<sup>2</sup>Includes supplemental gaseous fuels.

<sup>3</sup>Other is electricity produced from geothermal, wood, waste, wind, photovoltaic, and solar thermal energy sources connected to electric utility distribution systems.

<sup>4</sup>Notes: • Geographic coverage is the 50 States and the District of Columbia.

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

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

# Electric Utilities

## Electricity Sales<sup>1</sup>

		Residential	Commercial	Industrial	Other <sup>2</sup>	Total
Million kilowatthours						
<b>1973</b>	<b>Total</b>	<b>579,231</b>	<b>388,266</b>	<b>686,085</b>	<b>59,328</b>	<b>1,712,910</b>
<b>1974</b>	<b>Total</b>	<b>578,184</b>	<b>384,826</b>	<b>684,875</b>	<b>58,039</b>	<b>1,705,924</b>
<b>1975</b>	<b>Total</b>	<b>588,140</b>	<b>403,049</b>	<b>687,680</b>	<b>68,222</b>	<b>1,747,091</b>
<b>1976</b>	<b>Total</b>	<b>606,452</b>	<b>425,094</b>	<b>754,069</b>	<b>69,631</b>	<b>1,855,246</b>
<b>1977</b>	<b>Total</b>	<b>645,239</b>	<b>446,514</b>	<b>786,037</b>	<b>70,571</b>	<b>1,948,361</b>
<b>1978</b>	<b>Total</b>	<b>674,466</b>	<b>461,163</b>	<b>809,078</b>	<b>73,215</b>	<b>2,017,922</b>
<b>1979</b>	<b>Total</b>	<b>682,819</b>	<b>473,307</b>	<b>841,903</b>	<b>73,070</b>	<b>2,071,099</b>
<b>1980</b>	<b>Total</b>	<b>717,495</b>	<b>488,156</b>	<b>815,067</b>	<b>73,732</b>	<b>2,094,449</b>
<b>1981</b>	<b>Total</b>	<b>722,265</b>	<b>514,338</b>	<b>825,742</b>	<b>84,756</b>	<b>2,147,101</b>
<b>1982</b>	<b>Total</b>	<b>729,519</b>	<b>526,397</b>	<b>744,949</b>	<b>85,575</b>	<b>2,086,440</b>
<b>1983</b>	January	69,967	44,019	57,938	7,252	179,176
	February	65,039	42,475	59,032	6,919	173,465
	March	58,912	41,518	60,261	6,893	167,584
	April	56,284	40,679	60,548	6,296	163,807
	May	49,669	40,305	62,729	6,216	158,919
	June	54,138	45,086	66,152	6,228	171,604
	July	69,965	51,013	66,424	6,752	194,153
	August	78,374	53,245	69,611	6,885	208,115
	September	73,197	52,147	69,618	6,960	201,922
	October	55,374	45,517	68,924	6,492	176,307
	November	53,704	42,666	67,544	6,560	170,474
	December	66,326	45,119	67,217	6,765	185,428
	<b>Total</b>	<b>750,948</b>	<b>543,788</b>	<b>775,999</b>	<b>80,219</b>	<b>2,150,955</b>
<b>1984</b>	January	83,295	49,243	66,709	7,289	206,537
	February	69,818	46,293	67,445	6,690	190,246
	March	63,656	45,252	69,684	6,902	185,475
	April	56,373	43,052	69,048	6,339	174,813
	May	53,519	44,150	70,774	6,559	175,003
	June	59,955	49,454	73,037	6,714	189,160
	July	71,020	53,922	71,843	7,006	203,791
	August	73,138	53,603	74,534	7,089	208,364
	September	67,456	52,854	71,275	6,780	198,365
	October	55,965	48,061	70,945	6,732	181,702
	November	56,543	45,937	68,688	6,840	178,008
	December	66,915	46,481	66,606	6,908	186,910
	<b>Total</b>	<b>777,654</b>	<b>578,281</b>	<b>840,588</b>	<b>81,849</b>	<b>2,278,372</b>
<b>1985</b>	January	77,242	49,634	67,220	7,270	201,365
	February	78,011	49,406	66,582	7,046	201,045
	March	R63,981	R46,629	R67,437	R6,875	R184,922
	April†	56,025	45,826	68,445	7,049	177,345

<sup>1</sup>Electricity sales to all ultimate consumers.

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

†Initial estimates. R=Revised data.

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

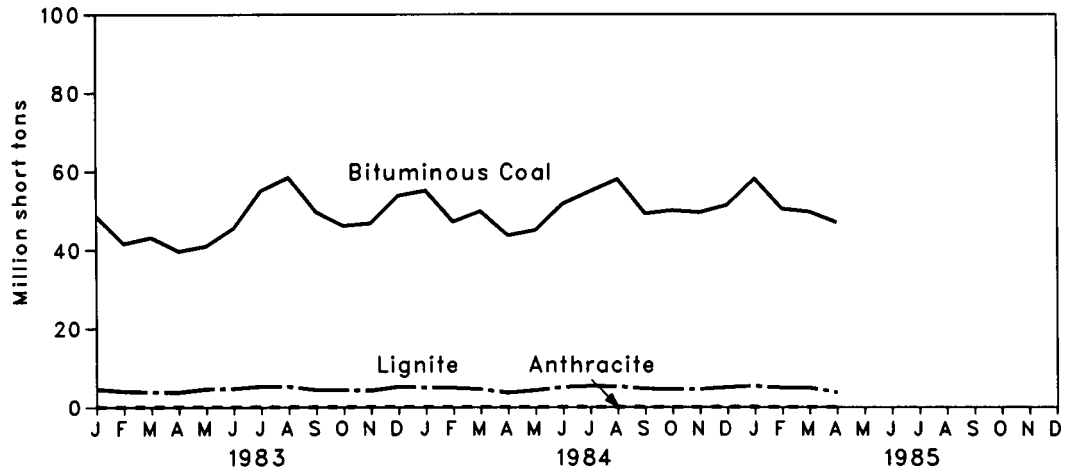
• Totals may not equal sum of components due to independent rounding.

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

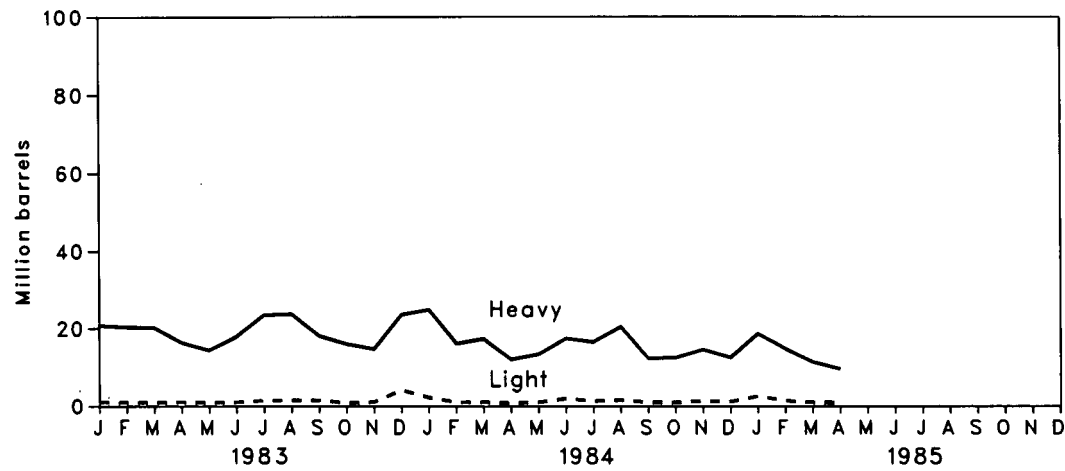
# Electric Utilities

## Primary Energy Consumed to Produce Electricity

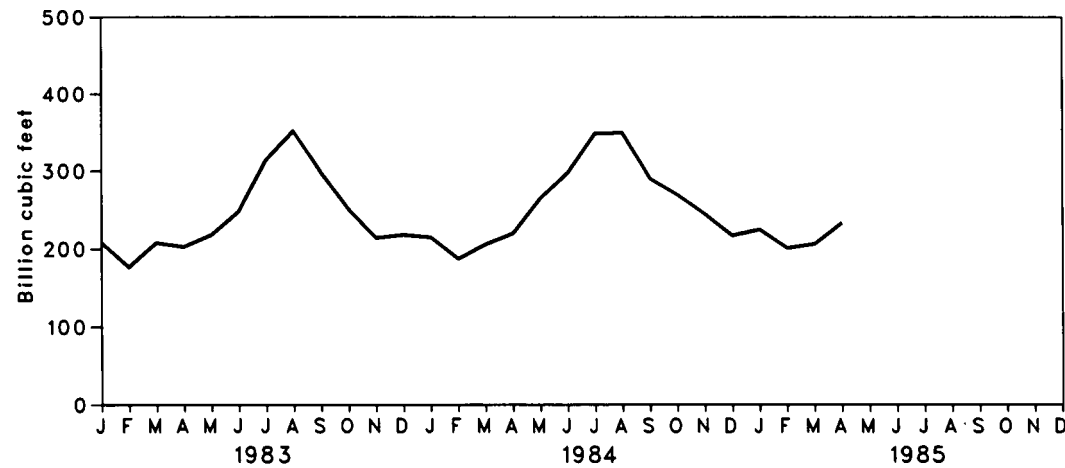
### Coal Consumption



### Petroleum Consumption



### Natural Gas Consumption



# Electric Utilities

## Primary Energy Consumed to Produce Electricity

		Coal				Petroleum				Natural Gas <sup>1</sup>	
		Anthracite	Bituminous Coal	Lignite	Total	Heavy <sup>2</sup>	Light <sup>3</sup>	Total Liquids	Petroleum Coke		
		Thousand short tons				Thousand barrels				Thousand short tons	Million cubic feet
<b>1973</b>	<b>Total</b>	<b>1,443</b>	<b>376,975</b>	<b>10,794</b>	<b>389,212</b>	( <sup>4</sup> )	( <sup>4</sup> )	<b>560,248</b>	<b>507</b>	<b>3,660,172</b>	
<b>1974</b>	<b>Total</b>	<b>1,498</b>	<b>378,643</b>	<b>11,670</b>	<b>391,811</b>	( <sup>4</sup> )	( <sup>4</sup> )	<b>536,274</b>	<b>625</b>	<b>3,443,428</b>	
<b>1975</b>	<b>Total</b>	<b>1,480</b>	<b>388,523</b>	<b>15,960</b>	<b>405,962</b>	( <sup>4</sup> )	( <sup>4</sup> )	<b>506,128</b>	<b>70</b>	<b>3,157,669</b>	
<b>1976</b>	<b>Total</b>	<b>1,350</b>	<b>425,205</b>	<b>21,817</b>	<b>448,371</b>	( <sup>4</sup> )	( <sup>4</sup> )	<b>555,920</b>	<b>68</b>	<b>3,080,868</b>	
<b>1977</b>	<b>Total</b>	<b>1,425</b>	<b>451,051</b>	<b>24,650</b>	<b>477,126</b>	( <sup>4</sup> )	( <sup>4</sup> )	<b>623,705</b>	<b>98</b>	<b>3,191,200</b>	
<b>1978</b>	<b>Total</b>	<b>1,064</b>	<b>448,763</b>	<b>31,407</b>	<b>481,235</b>	( <sup>4</sup> )	( <sup>4</sup> )	<b>635,839</b>	<b>398</b>	<b>3,188,363</b>	
<b>1979</b>	<b>Total</b>	<b>1,046</b>	<b>488,129</b>	<b>37,876</b>	<b>527,051</b>	( <sup>4</sup> )	( <sup>4</sup> )	<b>523,297</b>	<b>268</b>	<b>3,490,523</b>	
<b>1980</b>	<b>Total</b>	<b>951</b>	<b>526,680</b>	<b>41,642</b>	<b>569,274</b>	<b>391,163</b>	<b>29,051</b>	<b>420,214</b>	<b>179</b>	<b>3,681,595</b>	
<b>1981</b>	<b>Total</b>	<b>1,221</b>	<b>550,784</b>	<b>44,792</b>	<b>596,797</b>	<b>329,798</b>	<b>21,313</b>	<b>351,111</b>	<b>139</b>	<b>3,640,154</b>	
<b>1982</b>	<b>Total</b>	<b>1,075</b>	<b>543,346</b>	<b>49,245</b>	<b>593,666</b>	<b>234,434</b>	<b>15,337</b>	<b>249,771</b>	<b>149</b>	<b>3,225,518</b>	
<b>1983</b>	January	73	48,695	4,583	53,351	20,728	1,110	21,838	17	208,341	
	February	73	41,668	4,032	45,772	20,305	984	21,289	19	176,965	
	March	75	43,165	3,870	47,110	20,174	945	21,119	16	208,013	
	April	92	39,716	3,781	43,589	16,374	1,054	17,429	24	202,917	
	May	104	41,002	4,585	45,691	14,360	937	15,297	30	218,184	
	June	88	45,560	4,690	50,338	17,892	1,020	18,912	23	247,825	
	July	89	55,082	5,219	60,390	23,383	1,433	24,815	25	314,357	
	August	92	58,475	5,200	63,767	23,622	1,543	25,165	24	352,031	
	September	86	49,745	4,381	54,212	18,021	1,507	19,529	25	298,517	
	October	91	46,263	4,335	50,689	15,993	870	16,863	22	251,151	
	November	86	46,883	4,216	51,185	14,690	1,075	15,766	17	214,275	
	December	88	53,854	5,176	59,117	23,440	4,034	27,474	21	218,191	
	<b>Total</b>	<b>1,036</b>	<b>570,108</b>	<b>54,067</b>	<b>625,211</b>	<b>228,984</b>	<b>16,512</b>	<b>245,497</b>	<b>261</b>	<b>2,910,767</b>	
<b>1984</b>	January	98	55,142	4,985	60,225	24,745	2,176	26,921	24	215,027	
	February	75	47,279	4,904	52,257	16,091	1,018	17,108	21	187,259	
	March	69	49,921	4,543	54,534	17,274	1,016	18,290	18	206,171	
	April	83	43,779	3,703	47,565	11,971	831	12,802	22	220,005	
	May	99	45,115	4,294	49,507	13,327	1,010	14,337	23	264,522	
	June	102	51,757	5,112	56,971	17,363	1,927	19,289	23	297,560	
	July	100	54,928	5,331	60,359	16,453	1,259	17,712	22	348,848	
	August	97	58,026	5,273	63,396	20,337	1,522	21,859	20	349,878	
	September	81	49,288	4,675	54,045	12,235	996	13,231	21	290,595	
	October	83	50,091	4,578	54,753	12,450	965	13,415	19	269,629	
	November	91	49,595	4,543	54,229	14,543	1,326	15,870	17	244,637	
	December	93	51,418	5,050	56,560	12,499	1,146	13,645	20	217,210	
	<b>Total</b>	<b>1,070</b>	<b>606,339</b>	<b>56,990</b>	<b>664,399</b>	<b>189,289</b>	<b>15,190</b>	<b>204,479</b>	<b>252</b>	<b>3,112,342</b>	
<b>1985</b>	January	88	58,139	5,402	63,629	18,574	2,478	21,052	18	224,873	
	February	70	50,453	4,940	55,463	14,729	1,315	16,044	17	201,160	
	March	78	49,699	4,913	54,690	11,323	970	12,294	16	206,247	
	April	92	47,024	3,738	50,854	9,561	905	10,466	16	233,201	

<sup>1</sup>Includes supplemental gaseous fuels.

<sup>2</sup>Heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils.

<sup>3</sup>Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.

<sup>4</sup>Prior to 1980, petroleum consumption data were not disaggregated by type of fuel. Disaggregation by prime mover type is provided in the last table of this section.

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

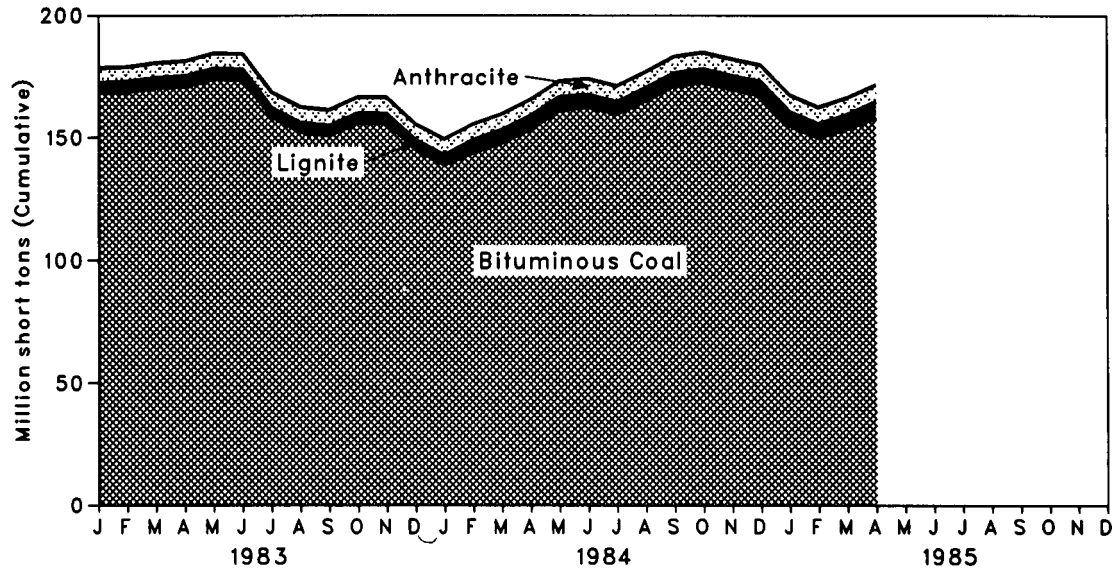
• Totals may not equal sum of components due to independent rounding.

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

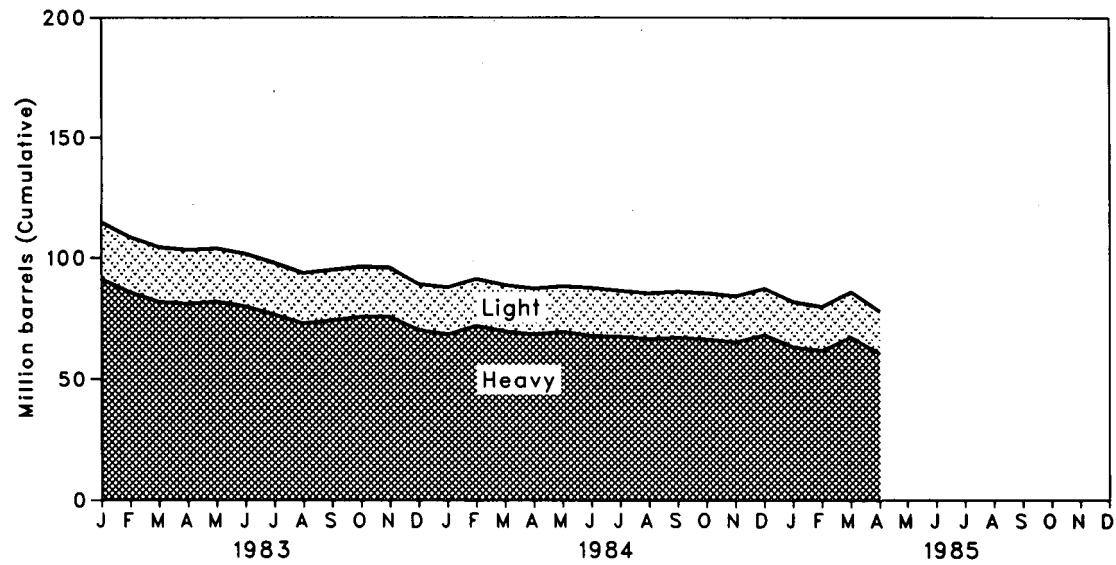
# Electric Utilities

## Coal and Petroleum Stocks at End of Period

### Coal Stocks



### Petroleum Stocks



# Electric Utilities

## Coal and Petroleum Stocks at End of Period

		Coal				Petroleum			
		Anthracite	Bituminous Coal	Lignite	Total	Heavy <sup>1</sup>	Light <sup>2</sup>	Total Liquids	Petroleum Coke
		Thousand short tons				Thousand barrels			
1973	Year	1,066	84,941	961	86,967	( <sup>3</sup> )	( <sup>3</sup> )	89,216	312
1974	Year	930	81,712	867	83,509	( <sup>3</sup> )	( <sup>3</sup> )	112,917	35
1975	Year	982	107,927	1,815	110,724	( <sup>3</sup> )	( <sup>3</sup> )	125,257	31
1976	Year	1,000	114,130	2,306	117,436	( <sup>3</sup> )	( <sup>3</sup> )	121,696	32
1977	Year	2,321	128,210	2,688	133,219	( <sup>3</sup> )	( <sup>3</sup> )	144,031	44
1978	Year	2,178	123,020	3,027	128,225	( <sup>3</sup> )	( <sup>3</sup> )	118,788	198
1979	Year	3,274	152,981	3,459	159,714	( <sup>3</sup> )	( <sup>3</sup> )	131,422	183
1980	Year	4,741	174,154	4,115	183,010	105,351	30,023	135,374	52
1981	Year	5,537	158,258	5,098	168,893	102,042	26,094	128,136	42
1982	Year	6,080	170,480	4,573	181,132	95,515	23,369	118,884	41
1983	January	6,107	168,287	4,210	178,604	91,523	23,183	114,706	54
	February	6,104	168,635	4,362	179,101	85,847	22,665	108,512	53
	March	6,143	170,327	4,201	180,671	81,957	22,387	104,344	54
	April	6,120	170,815	4,436	181,371	81,243	21,967	103,211	47
	May	6,145	173,969	4,453	184,567	82,091	21,758	103,849	44
	June	6,230	173,483	4,524	184,236	80,197	21,471	101,667	52
	July	6,299	158,701	3,566	168,566	76,881	21,101	97,982	50
	August	6,380	152,140	4,038	162,557	73,266	20,763	94,029	45
	September	6,435	150,778	4,171	161,384	74,560	20,696	95,256	47
	October	6,506	156,012	4,056	166,574	75,949	20,568	96,517	53
	November	6,531	155,931	3,995	166,457	75,930	20,271	96,201	63
	December	6,507	145,250	3,841	155,598	70,573	18,801	89,375	55
1984	January	6,500	139,026	3,877	149,403	68,679	19,369	88,048	43
	February	6,510	143,731	5,352	155,593	72,339	19,227	91,566	41
	March	6,519	147,756	5,500	159,775	69,984	19,058	89,042	45
	April	6,515	153,300	5,777	165,592	68,771	18,849	87,620	47
	May	6,532	161,067	5,573	173,171	69,890	18,695	88,584	51
	June	6,541	162,426	5,188	174,155	68,098	19,807	87,906	51
	July	6,530	159,683	4,883	171,095	67,856	18,840	86,696	50
	August	6,583	164,987	5,358	176,928	66,836	18,795	85,632	47
	September	6,628	170,987	5,536	183,151	67,370	18,921	86,291	49
	October	6,674	172,553	5,552	184,779	66,717	18,965	85,682	49
	November	6,715	169,788	5,627	182,130	65,548	18,875	84,423	43
	December	6,710	167,118	5,899	179,727	68,503	19,116	87,619	50
1985	January	6,719	154,999	5,806	167,524	63,546	18,511	82,057	57
	February	6,736	150,023	5,717	162,476	62,072	18,073	80,145	50
	March	6,782	153,697	5,834	166,313	62,558	18,652	81,209	43
	April	6,836	158,174	6,641	171,651	60,889	17,356	78,245	31

<sup>1</sup>Heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils.

<sup>2</sup>Light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.

<sup>3</sup>Prior to 1980, petroleum stock data were not disaggregated by type of fuel. Disaggregation by prime mover type is provided in the last table of this section.

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

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

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

# Electric Utilities

## Petroleum Consumption and Stocks by Prime Mover Type

		Petroleum Consumption			Petroleum Stocks at End of Period		
		Steam Plants	GT/IC <sup>1</sup>	Total Liquids	Steam Plants	GT/IC <sup>1</sup>	Total Liquids
Thousand barrels							
1973	Total	513,190	47,058	560,248	79,121	10,095	89,216
1974	Total	483,146	53,128	536,274	97,718	15,199	112,917
1975	Total	467,221	38,907	506,128	108,825	16,432	125,257
1976	Total	514,077	41,843	555,920	106,993	14,703	121,696
1977	Total	574,869	48,837	623,705	124,750	19,281	144,031
1978	Total	588,319	47,520	635,839	102,402	16,386	118,788
1979	Total	492,606	30,691	523,297	111,121	20,301	131,422
1980	Total	401,863	18,351	420,214	117,227	18,147	135,374
1981	Total	339,680	11,431	351,111	112,380	15,756	128,136
1982	Total	243,537	6,234	249,771	105,287	13,597	118,884
1983	January	21,373	465	21,838	101,394	13,312	114,706
	February	20,885	404	21,289	95,459	13,053	108,512
	March	20,728	392	21,119	91,394	12,750	104,344
	April	16,997	432	17,429	90,667	12,544	103,211
	May	14,968	330	15,297	91,360	12,489	103,849
	June	18,437	475	18,912	89,283	12,384	101,667
	July	23,927	888	24,815	85,891	12,091	97,982
	August	24,166	999	25,165	82,307	11,722	94,029
	September	18,532	996	19,529	83,511	11,745	95,256
	October	16,518	345	16,863	84,873	11,644	96,517
	November	15,336	430	15,766	84,804	11,397	96,201
	December	25,978	1,496	27,474	78,285	11,090	89,375
		<b>Total</b>	<b>237,845</b>	<b>7,652</b>	<b>245,497</b>		
1984	January	25,838	1,082	26,921	76,756	11,292	88,048
	February	16,662	447	17,108	80,404	11,163	91,566
	March	17,881	410	18,290	78,014	11,028	89,042
	April	12,495	306	12,802	76,721	10,899	87,620
	May	13,896	441	14,337	77,699	10,886	88,584
	June	17,997	1,293	19,289	76,126	11,780	87,906
	July	17,085	627	17,712	75,788	10,908	86,696
	August	20,957	902	21,859	74,832	10,799	85,632
	September	12,795	436	13,231	75,588	10,703	86,291
	October	13,019	396	13,415	74,906	10,775	85,682
	November	15,177	692	15,870	73,833	10,590	84,423
	December	13,247	398	13,645	76,836	10,784	87,619
		<b>Total</b>	<b>197,050</b>	<b>7,429</b>	<b>204,479</b>		
1985	January	19,842	1,210	21,052	71,522	10,535	82,057
	February	15,576	467	16,044	70,051	10,094	80,145
	March	11,957	337	12,294	70,364	10,845	81,209
	April	10,127	338	10,466	68,641	9,604	78,245

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

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

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

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

## Nuclear

In April 1985, U.S. nuclear power plants generated a total of 26.5 billion net kilowatthours of electricity at an average capacity factor of 50.4 percent. This generation represents an increase of 9.2 percent compared with April 1984 generation. Nuclear power supplied 14.3 percent of the electricity distributed in April 1985, compared with 13.4 percent in April of the previous year.

On April 26, Pacific Gas and Electric Company's Diablo Canyon-2, a 1,106-net-megawatt-electric pressurized-water reactor, received a license from the Nuclear Regulatory Commission to start low-power testing before power ascension.

There were 89 operable U.S. nuclear power reactors as of April 30, 1985, with a collective net generating capacity of 72.9 million kilowatts. Of the 89 operable reactors, 6 units were in power ascension (Byron-1, Callaway-1, Catawba-1, Diablo Canyon-1, Grand Gulf-1,

and Waterford-3), and 31 units generated no electricity or operated substantially below capacity in April (Arkansas Nuclear-2, Arnold, Browns Ferry-1, Browns Ferry-2, Browns Ferry-3, Brunswick-1, Calvert Cliffs-1, Cook-1, Cooper, Crystal River-3, Farley-1, Fitzpatrick, Fort St. Vrain, Hatch-2, LaCrosse, LaSalle-2, McGuire-1, McGuire-2, Millstone-2, Oconee-2, Peach Bottom-2, Point Beach-1, Quad Cities-2, Rancho Seco, Salem-2, San Onofre-2, Susquehanna-1, Surrey-2, Three Mile Island-1, Turkey Point-3, and Zion-1). Five units had licenses from the Nuclear Regulatory Commission authorizing fuel-loading and low-power testing (Fermi-2, Diablo Canyon-2, Limerick-1, Palo Verde-1, and Wolf Creek), and one unit (Shoreham) was authorized to load fuel and conduct cold criticality testing.

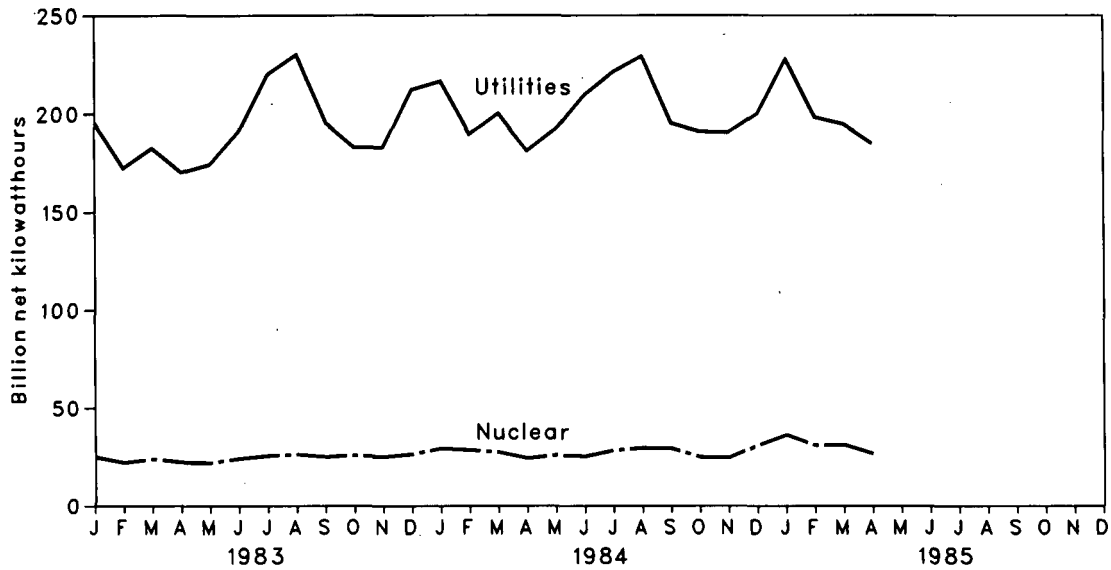
As of April 30, 1985, there were 132 domestic nuclear power plants in all stages of planning, construction, or operation, with an aggregate design capacity of 123 million net kilowatts.



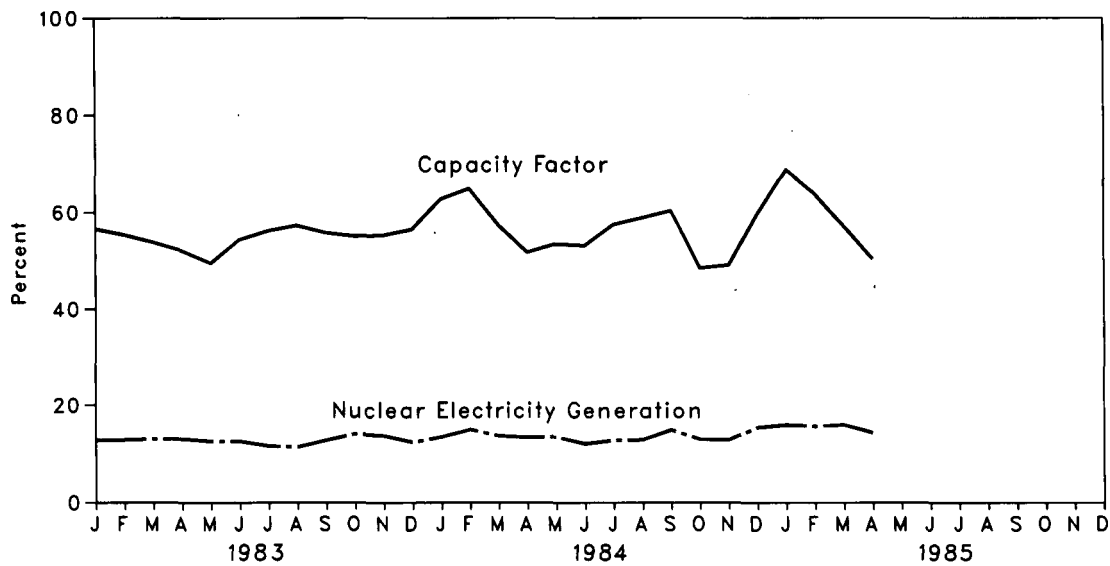
# Nuclear

## Nuclear Power Plant Operations

### Electricity Generated by Utilities and by Nuclear Power Plants



### Nuclear Portion of Electricity Generation and Capacity Factor



# Nuclear

## Nuclear Power Plant Operations

		Operable Reactors <sup>1 2</sup>	Nuclear-Based Electricity Generation  Million net kilowatthours	Nuclear Portion of Domestic Electricity Generation  Percent	Maximum Dependable Capacity of Operable Reactors <sup>3</sup>	Capacity Factor <sup>4</sup>  Percent
1973	Year	39	83,479	4.5	22.900	52.9
1974	Year	48	113,976	6.1	31.710	48.3
1975	Year	54	172,505	9.0	33.312	59.7
1976	Year	60	191,104	9.4	43.277	57.8
1977	Year	65	250,883	11.8	46.046	64.1
1978	Year	70	276,403	12.5	49.629	65.7
1979	Year	68	255,155	11.4	49.326	58.7
1980	Year	70	251,116	11.0	51.059	57.1
1981	Year	74	272,674	11.9	55.534	58.4
1982	Year	77	282,773	12.6	59.552	57.2
1983	January	77	25,073	12.8	59.532	56.6
	February	77	22,198	12.9	59.632	55.4
	March	77	23,890	13.1	59.632	53.9
	April	77	22,335	13.1	59.658	52.1
	May	78	22,051	12.6	59.883	49.5
	June	79	24,152	12.6	61.686	54.4
	July	79	25,602	11.6	61.230	56.2
	August	79	26,201	11.4	61.440	57.3
	September	80	25,007	12.8	62.227	55.8
	October	80	25,797	14.1	62.876	55.1
	November	80	25,010	13.7	62.809	55.3
	December	80	26,361	12.4	62.809	56.5
	Year	80	293,677	12.7	62.809	54.8
1984	January	80	29,313	13.5	62.772	62.8
	February	80	28,436	15.0	62.942	64.9
	March	81	27,345	13.7	64.036	57.4
	April	82	24,231	13.4	65.049	51.8
	May	82	25,867	13.5	64.986	53.5
	June	83	25,299	12.1	66.091	53.2
	July	83	28,284	12.8	66.091	57.5
	August	84	29,493	12.9	67.341	58.9
	September	84	29,146	14.9	67.066	60.4
	October	85	24,774	13.0	68.497	48.5
	November	86	24,575	12.9	69.534	49.1
	December	86	30,872	15.4	69.522	59.7
	Year	86	327,634	13.6	69.522	56.5
1985	January	87	36,186	15.9	70.667	68.8
	February	88	30,809	15.6	71.841	63.8
	March	89	31,041	15.9	72.931	57.2
	April	89	26,458	14.3	†72.911	†50.4

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

<sup>2</sup>See Note 1 on the last page of this section for the definition.

<sup>3</sup>When possible, net maximum dependable capacity (MDC) is used. When a reactor has not operated long enough to permit determination of a net MDC, the net design electrical rating (DER) is used. The capacities for some units have been reduced to reflect the imposition of a "power limit" by the Nuclear Regulatory Commission or by the operating utility. For the definitions of net MDC and net DER, see Note 3 on the last page of this section.

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

†Preliminary data.

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

Sources: • See the last page of this section.

# Nuclear

## Status of Nuclear Reactor Units<sup>1</sup>

	Licensed for Operation		Construction Permits		On Order	Announced	Total	Total Design Capacity <sup>4</sup>	
	Operable <sup>2</sup>	In Startup <sup>3</sup>	Granted	Pending					
								Million net kilowatts	
1973	Year	39	3	51	58	48	20	219	212
1974	Year	48	5	58	80	28	16	235	234
1975	Year	54	2	69	73	19	19	236	236
1976	Year	60	1	72	66	16	19	234	236
1977	Year	65	1	80	52	13	9	220	220
1978	Year	70	0	90	32	9	4	205	204
1979	Year	68	0	91	21	3	0	183	179
1980	Year	70	2	82	12	3	0	169	163
1981	Year	74	0	75	11	3	0	163	157
1982	Year	77	2	R60	R3	2	0	R144	R135
1983	January	77	2	60	3	2	0	144	135
	February	77	2	60	3	2	0	144	135
	March	77	3	59	3	2	0	144	135
	April	77	4	57	3	2	0	143	134
	May	78	3	57	3	2	0	143	134
	June	79	2	57	3	2	0	143	134
	July	79	2	57	3	2	0	143	134
	August	79	2	57	3	2	0	143	134
	September	80	1	57	3	2	0	143	134
	October	80	1	56	2	2	0	141	133
	November	80	1	56	0	2	0	139	131
	December	80	3	53	0	2	0	138	129
1984	January	80	3	51	0	2	0	136	128
	February	80	3	51	0	2	0	136	128
	March	81	3	50	0	2	0	136	128
	April	82	3	49	0	2	0	136	128
	May	82	3	49	0	2	0	136	128
	June	83	3	48	0	2	0	136	128
	July	83	3	48	0	2	0	136	128
	August	84	2	44	0	2	0	132	123
	September	84	2	44	0	2	0	132	123
	October	85	3	42	0	2	0	132	123
	November	86	2	42	0	2	0	132	123
	December	86	6	38	0	2	0	132	123
1985	January	87	5	38	0	2	0	132	123
	February	88	4	38	0	2	0	132	123
	March	89	5	36	0	2	0	132	123
	April	89	6	35	0	2	0	132	123

<sup>1</sup>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.

<sup>2</sup>See Note 1 on the last page of this section for the definition.

<sup>3</sup>See Note 2 on the last page of this section for the definition.

<sup>4</sup>Net design electrical rating (DER) is used because many of the units have not had the operational experience needed to determine a net maximum dependable capacity (MDC). See Note 3 on the last page of this section. R=Revised data.

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

Sources: • See the last page of this section.

# Notes and Sources for the Nuclear Section

## Notes

**1. Operable Reactors:** Units that have received Operating Licenses, completed low-power testing, and are authorized to operate at full power (i.e., in receipt of a Full Power Amendment) by the Nuclear Regulatory Commission (NRC), plus the Hanford-N reactor operated by the Department of Energy (DOE). The Hanford-N reactor, with a net capacity of 860 megawatts electric (MWe), is included, although it is not licensed by the NRC, because electricity produced from its output steam is distributed commercially. Similarly, the Shippingport reactor (net capacity of 60 MWe) operated by DOE, was included prior to retirement from service on October 1, 1982, except for the interval from March 1974 through August 1977 when it was excluded because of a major core modification outage. The DOE-operated Experimental Breeder Reactor-2 (EBR-2) is not included because the electricity it generates is not distributed commercially. Five units, each of which has been inoperative for at least 4 years prior to January 1, 1984, are deleted from entries subsequent to their removal from service: Peach Bottom-1 (net capacity of 40 MWe) and Indian Point-1 (net capacity of 265 MWe), both out of service since November 1974; Humboldt Bay (net capacity of 65 MWe), down since August 1976 for major seismic modifications and subsequently officially retired; Dresden-1 (net capacity of 200 MWe), out of service since January 1979 for major modifications and officially retired in August 1984; and Three Mile Island-2 (net capacity of 906 MWe), whose core was severely damaged by a loss-of-coolant accident in March 1979. A sister unit, Three Mile Island-1 (net capacity of 819 MWe), continues to be listed as "Operable" because it could, in theory, return to service once the restraining order imposed by the NRC is lifted.

**2. In Startup:** Units that have received Operating Licenses authorizing fuel loading and low-power testing but have not received a Full Power Amendment from the NRC. Without the amendment, these units cannot distribute electricity commercially.

**3. Capacity:** Nuclear power plants may have more than one type of net capacity rating including:

(a) Net Maximum Dependable Capacity (MDC)—The gross electrical output measured at the output terminals of the turbine generator(s) during the most restrictive seasonal conditions (usually summer) less the station service load. The typical station service load for a nuclear plant is about 5

percent of its gross generation.

(b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of the unit, specified by the utility and used for plant design.

**4. Monthly Capacity Factors:** The monthly capacity factors are computed as the actual monthly generation divided by the maximum possible generation for that month. The maximum possible generation is the number of hours in the month multiplied by the net monthly maximum dependable capacity. This fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are averages of the monthly values for that year.

## Sources

**Reactors Licensed for Operation:** Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors."

**Electricity Generation:** • 1973 through September 1977—Federal Power Commission, Form 4, "Monthly Power Plant Report."

• October 1977 through 1981—Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report."

• 1982 forward—Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

**Maximum Dependable Capacity:** Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors."

**Capacity Factor:** Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels.

**Reactor Construction and Planning Data:** • 1973 through June 1982—Compiled from various sources, primarily the Department of Energy, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones," Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors," and from the Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels.

• July 1982 forward—Nuclear Regulatory Commission Report NUREG-0871, "Summary Information Report," Nuclear Regulatory Commission Report NUREG-0020, "Licensed Operating Reactors," and various trade journals.

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

## Price

### Crude Oil

The average price of domestic crude oil purchased at the wellhead was \$24.15 per barrel in April 1985. This was 1.1 percent above the previous month's level but 6.9 percent below the level in April 1984.

During April 1985, the composite refiner acquisition cost of crude oil was \$27.04 per barrel, 1.0 percent above the previous month's average of \$26.77. The cost of imported crude oil increased \$0.38 per barrel from the March 1985 level to \$27.61 per barrel in April. This was 5.2 percent below the April 1984 average. The cost of domestic crude oil in April 1985 was \$26.79, \$0.18 more than the March 1985 average.

### Motor Gasoline

The national city average retail price of leaded regular gasoline at all types of stations was \$1.14 per gallon in May 1985, 2.2 percent higher than the price in April 1985. The price of unleaded regular gasoline was \$1.23 per gallon in May, 2.2 percent higher than the price in the previous month. The price of unleaded premium gasoline averaged \$1.36 per gallon in May, 1.5 percent higher than during April 1985.

### Residual Fuel Oil

The average price, excluding taxes, of residual fuel oil sold to end users (utilities, industry, and other ultimate consumers) in April 1985 was \$0.64 per gallon, 4.5 percent below the previous month's price and 7.1 percent below the April 1984 average. The average price, excluding taxes, of residual fuel oil sold to other-than-ultimate consumers for resale in April 1985 was \$0.60 per gallon, 3.5 percent below the March 1985 average and 9.1 percent below the April 1984 average.

### Aviation Fuel

The average price, excluding taxes, of aviation gasoline sold to end users in April 1985 was \$1.21 per gallon, 0.2 percent below the price in the previous month and 2.6 percent below the price in April 1984. The average

price, excluding taxes, of kerosene-type jet fuel sold to end users in April 1985 was \$0.80 per gallon, down 0.4 percent from the previous month's price and down 5.9 percent from the price 1 year earlier.

### No. 2 Distillate Fuel Oil

The national average price of heating oil sold to residential customers in April 1985 was \$1.04 per gallon. This was 1.1 percent below the price in March 1985 and 5.5 percent below the April 1984 price. The average price for resale was \$0.79 per gallon in April 1985, 4.2 percent below the price in April 1984.

### Natural Gas

In March 1985, the average wellhead price of marketed natural gas production was \$2.62 per thousand cubic feet, \$0.02 (0.8 percent) lower than in February 1985 but \$0.01 above the March 1984 price. The average price of natural gas delivered to electric utility plants was \$3.79 per thousand cubic feet in March 1985, \$0.07 (1.9 percent) higher than the February 1985 price and \$0.27 (7.7 percent) above the March 1984 price. The average price of natural gas used by residential consumers in April 1985 was \$6.14 per thousand cubic feet, \$0.02 lower than in March 1985 but \$0.14 (2.3 percent) more than the April 1984 price.

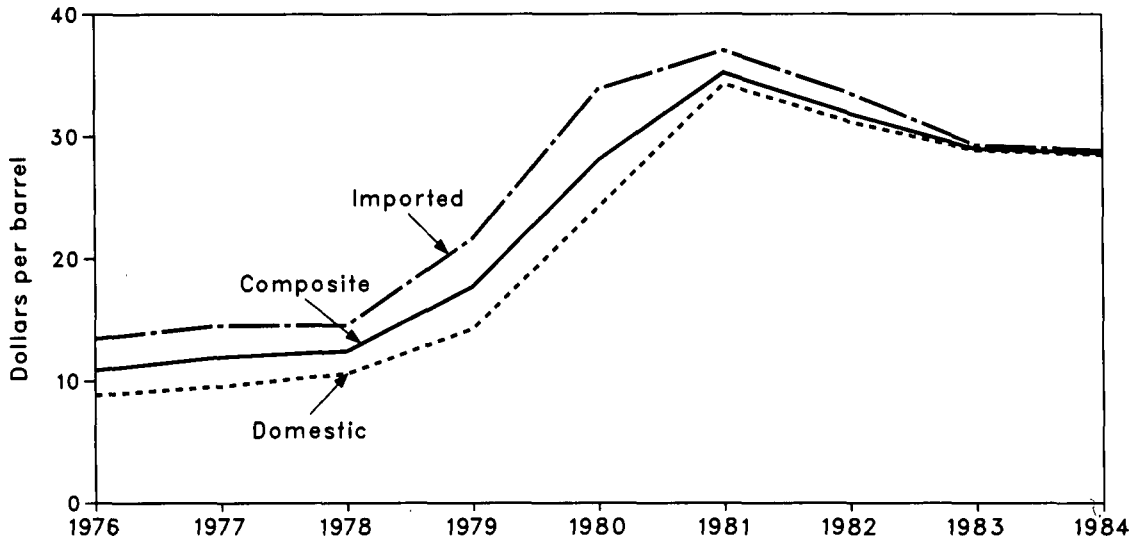
### Electricity

The average retail price of electricity sold by selected privately owned utilities to residential consumers in April 1985 was 7.73 cents per kilowatthour an increase of 3.3 percent from the March 1985 price and 5.5 percent above the April 1984 price. The average price of electricity sold to commercial consumers was 7.44 cents per kilowatthour in April 1985, a 1.1-percent increase from the previous month's price and up 2.6 percent from the April 1984 price. The average electricity price to industrial users during April 1985 was 5.09 cents per kilowatthour, a decrease of 0.8 percent from the previous month's price but 4.3 percent more than during April 1984.

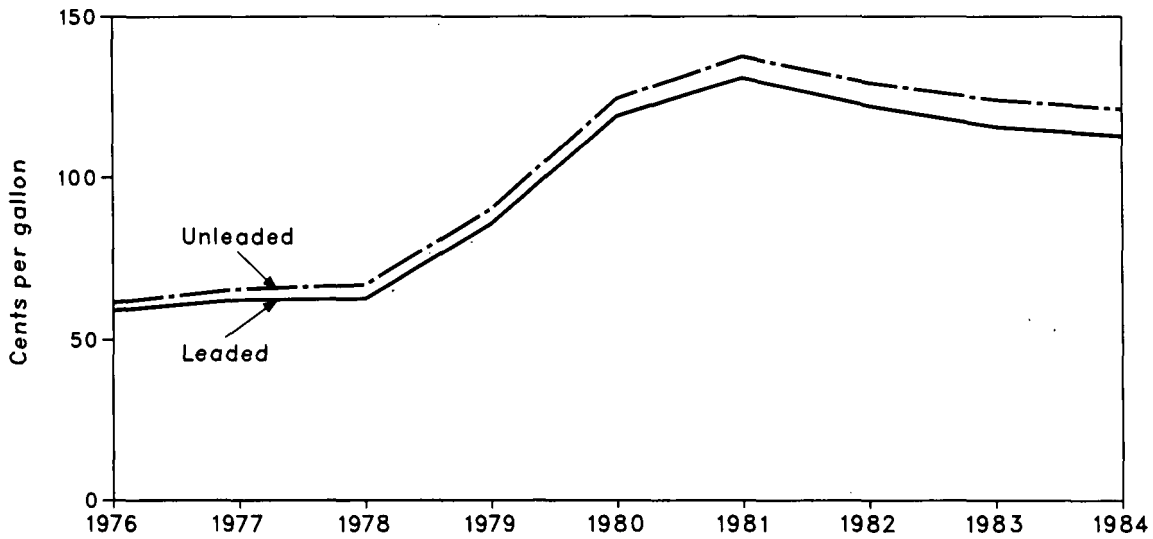
# Price

## Selected Petroleum Series

### Refiner Acquisition Cost of Crude Oil



### Regular Motor Gasoline Prices (Including Tax)



# Price

## Crude Oil Price Summary

		Actual Domestic Average Wellhead Price <sup>1</sup>	Average FOB Cost of Crude Oil Imports <sup>2</sup>	Average Landed Cost of Crude Oil Imports <sup>3</sup>	Refiner Acquisition Cost of Crude Oil <sup>4</sup>		
					Domestic	Imported	Composite
Dollars per barrel							
1976	Average	8.19	12.17	13.34	8.84	13.48	10.89
1977	Average	8.57	13.24	14.31	9.55	14.53	11.96
1978	Average	9.00	13.30	14.38	10.61	14.57	12.46
1979	Average	12.64	20.19	21.65	14.27	21.67	17.72
1980	Average	21.59	32.27	33.95	24.23	33.89	28.07
1981	Average	31.77	35.10	36.52	34.33	37.05	35.24
1982	Average	28.52	32.11	33.18	31.22	33.55	31.87
1983	January	27.22	29.47	30.62	30.55	31.40	30.73
	February	26.41	27.79	29.08	29.16	30.76	29.49
	March	26.08	26.88	27.84	28.69	28.43	28.64
	April	25.85	27.18	28.24	28.45	27.95	28.33
	May	26.08	27.36	28.55	28.68	28.53	28.64
	June	25.98	27.71	29.00	28.67	29.23	28.85
	July	25.86	27.84	28.99	28.74	28.76	28.75
	August	26.03	27.89	29.22	28.58	29.50	28.88
	September	26.08	27.88	29.24	28.69	29.54	28.97
	October	26.04	27.84	29.08	28.88	29.67	29.14
	November	26.09	27.75	28.93	28.76	29.09	28.85
	December	25.88	27.50	28.58	28.62	29.30	28.83
	Average	26.19	27.73	28.93	28.87	29.30	28.99
1984	January	25.93	27.56	28.49	28.62	28.80	28.67
	February	26.06	27.78	28.89	28.76	28.91	28.81
	March	26.05	27.70	28.69	28.75	28.95	28.81
	April	25.93	27.84	28.91	28.63	29.11	28.77
	May	26.00	27.87	28.94	28.65	29.26	28.83
	June	26.09	27.78	28.89	28.58	29.19	28.77
	July	26.11	27.19	28.32	28.70	29.00	28.79
	August	26.02	27.29	28.20	28.59	28.92	28.69
	September	25.97	27.14	28.14	28.56	28.70	28.60
	October	25.92	27.15	28.18	28.46	28.79	28.56
	November	25.44	26.91	27.88	28.10	28.74	28.30
	December	25.05	26.69	27.69	27.95	28.02	27.97
	Average	25.88	27.44	28.46	28.53	28.88	28.63
1985	January	24.28	26.10	26.95	26.89	27.51	27.02
	February	23.63	R25.90	R26.82	26.39	27.05	26.53
	March	R23.88	R†26.36	R†27.15	26.61	27.23	26.77
	April	†24.15	†26.60	†27.44	26.79	27.61	27.04

<sup>1</sup>See Note 1 in the Notes and Sources for this section.

<sup>2</sup>See Note 2 in the Notes and Sources for this section.

<sup>3</sup>See Note 3 in the Notes and Sources for this section.

<sup>4</sup>See Note 4 in the Notes and Sources for this section.

†Preliminary data. R=Revised data.

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

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

# Price

## FOB Cost of Crude Oil Imports from Selected Countries<sup>1</sup>

		Algeria	Indonesia	Iran	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela
		Dollars per barrel							
<b>1976</b>	<b>Average</b>	13.05	12.76	11.61	NA	13.08	11.69	NA	11.32
<b>1977</b>	<b>Average</b>	14.36	13.57	12.67	13.42	14.44	12.37	NA	12.68
<b>1978</b>	<b>Average</b>	14.10	13.64	12.65	13.24	14.04	12.70	13.82	12.45
<b>1979</b>	<b>Average</b>	20.65	19.35	23.71	20.29	21.80	17.63	21.20	17.37
<b>1980</b>	<b>Average</b>	36.57	32.37	( <sup>2</sup> )	31.11	35.82	28.53	34.58	24.78
<b>1981</b>	<b>Average</b>	39.09	35.93	( <sup>2</sup> )	33.13	38.53	32.48	36.08	28.86
<b>1982</b>	<b>Average</b>	34.23	35.27	30.93	28.07	35.13	33.50	33.46	23.77
<b>1983</b>	January	W	34.71	W	26.90	W	W	32.77	21.58
	February	W	33.74	W	25.69	W	W	30.95	21.82
	March	31.07	29.69	W	24.53	29.52	30.03	29.16	20.04
	April	29.37	29.57	W	24.18	29.63	W	30.07	20.05
	May	29.54	29.31	W	24.60	29.72	W	29.61	19.88
	June	29.80	29.59	W	24.13	29.57	W	28.92	20.80
	July	30.15	29.73	28.41	24.92	29.81	27.91	30.00	19.89
	August	30.32	29.60	28.19	25.15	29.92	27.83	29.88	21.56
	September	30.33	29.77	28.03	25.10	29.59	27.73	30.33	21.81
	October	29.98	29.81	28.29	25.72	30.23	28.24	29.73	23.58
	November	29.75	30.34	W	25.76	29.99	28.22	29.42	23.17
	December	W	29.77	28.30	26.20	29.60	27.18	29.05	24.17
	<b>Average</b>	<b>30.06</b>	<b>29.93</b>	<b>28.25</b>	<b>25.19</b>	<b>29.78</b>	<b>28.03</b>	<b>29.84</b>	<b>21.48</b>
<b>1984</b>	January	27.60	29.89	W	26.22	29.80	27.76	29.29	24.21
	February	28.56	29.09	W	26.04	29.98	26.72	29.70	23.55
	March	28.69	W	NA	26.30	29.89	28.39	29.95	23.86
	April	28.90	29.50	W	26.07	29.93	28.17	29.85	23.93
	May	28.98	29.44	W	26.36	29.67	27.43	29.93	24.07
	June	28.52	29.35	NA	26.58	29.34	W	29.67	24.23
	July	27.43	29.21	W	26.62	29.22	W	28.91	24.37
	August	26.97	W	W	26.71	29.02	W	28.13	23.91
	September	26.90	28.83	NA	26.34	29.24	27.99	27.99	24.57
	October	27.42	28.93	NA	26.44	28.40	W	28.50	24.43
	November	26.50	28.68	NA	26.53	28.32	NA	27.61	24.24
	December	25.13	28.03	NA	26.43	28.11	NA	27.85	24.32
	<b>Average</b>	<b>28.04</b>	<b>29.10</b>	<b>26.93</b>	<b>26.37</b>	<b>29.39</b>	<b>27.60</b>	<b>28.90</b>	<b>24.16</b>
<b>1985</b>	January	25.47	27.43	NA	26.10	27.22	W	W	24.02
	February	W	27.62	NA	26.00	27.41	W	W	24.36
	March†	R26.61	27.01	W	R26.31	28.20	NA	W	R24.93
	April†	27.44	27.50	W	26.33	27.96	NA	28.19	24.49

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

<sup>2</sup>No crude oil was imported.

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

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

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



# Price

## Landed Cost of Crude Oil Imports from Selected Countries<sup>1</sup>

		Algeria	Canada	Indonesia	Iran	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela
Dollars per barrel										
<b>1975</b>	<b>Average</b>	<b>12.72</b>	<b>12.72</b>	<b>13.79</b>	<b>12.21</b>	<b>NA</b>	<b>12.62</b>	<b>12.30</b>	<b>NA</b>	<b>11.65</b>
<b>1976</b>	<b>Average</b>	<b>13.81</b>	<b>13.57</b>	<b>13.82</b>	<b>12.82</b>	<b>NA</b>	<b>13.80</b>	<b>13.04</b>	<b>NA</b>	<b>11.80</b>
<b>1977</b>	<b>Average</b>	<b>15.20</b>	<b>14.21</b>	<b>14.63</b>	<b>13.80</b>	<b>13.75</b>	<b>15.25</b>	<b>13.61</b>	<b>NA</b>	<b>13.13</b>
<b>1978</b>	<b>Average</b>	<b>14.91</b>	<b>14.50</b>	<b>14.64</b>	<b>13.88</b>	<b>13.54</b>	<b>14.86</b>	<b>13.92</b>	<b>NA</b>	<b>12.83</b>
<b>1979</b>	<b>Average</b>	<b>21.90</b>	<b>20.43</b>	<b>20.69</b>	<b>25.02</b>	<b>20.86</b>	<b>22.96</b>	<b>19.15</b>	<b>22.16</b>	<b>18.18</b>
<b>1980</b>	<b>Average</b>	<b>37.90</b>	<b>30.47</b>	<b>33.92</b>	<b>(<sup>2</sup>)</b>	<b>31.80</b>	<b>37.05</b>	<b>30.02</b>	<b>35.88</b>	<b>25.86</b>
<b>1981</b>	<b>Average</b>	<b>40.49</b>	<b>32.16</b>	<b>37.57</b>	<b>(<sup>2</sup>)</b>	<b>33.78</b>	<b>39.70</b>	<b>34.19</b>	<b>37.24</b>	<b>29.87</b>
<b>1982</b>	<b>Average</b>	<b>35.28</b>	<b>26.92</b>	<b>36.75</b>	<b>32.40</b>	<b>28.64</b>	<b>36.17</b>	<b>35.00</b>	<b>34.28</b>	<b>24.82</b>
<b>1983</b>	January	33.20	27.62	36.12	W	27.50	W	W	33.48	23.20
	February	32.17	26.19	35.07	W	26.15	32.24	W	33.33	23.36
	March	31.24	24.78	31.17	W	25.06	30.49	31.63	29.92	21.48
	April	30.55	24.35	31.14	W	24.65	30.63	W	30.84	21.45
	May	30.48	24.32	30.82	W	25.17	30.75	W	30.60	21.24
	June	30.88	24.88	31.40	29.10	24.81	30.56	W	30.02	22.07
	July	31.36	25.45	31.46	30.06	25.34	30.91	29.53	30.86	21.30
	August	31.85	25.45	31.65	29.57	25.80	31.21	29.39	30.83	22.82
	September	31.78	25.71	31.27	29.31	25.66	30.70	29.53	31.39	23.12
	October	30.97	26.01	31.14	29.73	26.44	31.16	29.98	30.79	24.75
	November	30.96	25.83	31.30	W	26.29	31.02	29.88	30.33	24.68
	December	30.23	26.69	31.12	28.57	26.88	30.57	28.83	30.00	24.91
	<b>Average</b>	<b>31.26</b>	<b>25.63</b>	<b>31.57</b>	<b>29.81</b>	<b>25.78</b>	<b>30.84</b>	<b>29.76</b>	<b>30.87</b>	<b>22.94</b>
<b>1984</b>	January	29.19	26.44	31.22	W	26.85	30.62	29.67	30.09	25.28
	February	29.73	26.40	30.91	W	26.73	31.29	28.38	30.77	25.21
	March	30.31	26.01	30.81	NA	26.92	30.93	30.20	30.98	24.75
	April	29.81	26.10	31.02	W	26.68	31.08	29.95	30.73	24.86
	May	29.96	27.12	30.80	W	26.92	30.96	28.95	30.75	24.93
	June	29.62	26.00	31.21	NA	27.24	31.05	29.90	30.43	25.29
	July	28.63	27.16	30.26	W	26.98	30.07	W	29.54	25.24
	August	28.16	26.95	30.59	W	26.99	29.99	W	28.93	24.95
	September	27.94	27.03	30.05	W	26.66	30.60	29.75	28.81	25.29
	October	28.42	26.82	30.11	W	26.80	29.47	28.57	29.27	25.49
	November	28.12	26.33	30.03	W	26.78	29.45	NA	28.39	25.35
	December	27.07	26.50	30.12	NA	26.86	29.32	NA	28.55	25.24
	<b>Average</b>	<b>29.08</b>	<b>26.59</b>	<b>30.64</b>	<b>28.67</b>	<b>26.87</b>	<b>30.50</b>	<b>29.50</b>	<b>29.60</b>	<b>25.15</b>
<b>1985</b>	January	26.28	24.99	29.26	NA	26.46	28.70	W	W	25.18
	February	26.06	R24.00	28.73	NA	26.37	28.55	W	W	25.37
	March†	R27.17	25.13	R28.40	W	R26.60	R29.42	NA	W	R25.72
	April†	28.25	26.15	29.00	W	26.57	28.98	W	28.77	25.47

<sup>1</sup>See Note 3 in the Notes and Sources for this section.

<sup>2</sup>No crude oil was imported.

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

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

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

# Price

## U.S. City Average Retail Prices for Motor Gasoline<sup>1</sup>

		Leaded Regular	Unleaded Regular	Unleaded Premium	Average for All Types <sup>2</sup>
Cents per gallon, including tax					
1974	<b>Average</b>	53.2	NA	NA	NA
1975	<b>Average</b>	56.7	NA	NA	NA
1976	<b>Average</b>	59.0	61.4	NA	NA
1977	<b>Average</b>	62.2	65.6	NA	NA
1978	<b>Average</b>	62.6	67.0	NA	65.2
1979	<b>Average</b>	85.7	90.3	NA	88.2
1980	<b>Average</b>	119.1	124.5	NA	122.1
1981	<b>Average<sup>3</sup></b>	131.1	137.8	147.0	135.3
1982	<b>Average</b>	122.2	129.6	141.5	128.1
1983	January	114.6	122.8	137.6	121.3
	February	109.9	118.7	133.8	117.0
	March	106.4	115.1	130.8	113.5
	April	113.1	121.5	136.0	119.8
	May	117.7	125.9	139.7	124.3
	June	119.7	127.7	141.1	126.1
	July	120.7	128.8	142.1	127.2
	August	120.3	128.5	141.9	126.9
	September	118.9	127.4	141.0	125.7
	October	117.2	125.5	139.5	123.9
	November	115.6	124.1	138.4	122.4
	December	114.6	123.1	137.6	121.5
		<b>Average</b>	<b>115.7</b>	<b>124.1</b>	<b>138.3</b>
1984	January	113.1	121.6	136.9	120.0
	February	112.5	120.9	136.1	119.3
	March	112.5	121.0	136.2	119.4
	April	114.5	122.7	137.5	121.1
	May	115.4	123.6	138.0	122.1
	June	114.7	122.9	137.7	121.4
	July	112.9	121.2	137.0	119.7
	August	111.6	119.6	135.5	118.4
	September	112.0	120.3	136.0	118.9
	October	112.7	120.9	136.5	119.5
	November	112.4	120.7	136.4	119.3
	December	110.9	119.3	135.4	117.9
		<b>Average</b>	<b>112.9</b>	<b>121.2</b>	<b>136.6</b>
1985	January	106.0	114.8	130.4	114.5
	February	104.1	113.1	129.0	112.8
	March	107.1	115.9	131.0	115.5
	April	111.9	120.5	134.0	119.9
	May	114.4	123.1	136.0	122.3

<sup>1</sup>See Note 5 in the Notes and Sources for this section.

<sup>2</sup>Also includes types of gasoline not shown separately.

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

NA=Not available.

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

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

# Price

## Refiner and Gas Plant Operator Sales Prices of Residual Fuel Oil<sup>1</sup>

		Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 percent		Average	
		Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users
Cents per gallon, excluding tax							
<b>1978</b>	<b>Average</b>	<b>29.3</b>	<b>31.4</b>	<b>24.5</b>	<b>27.5</b>	<b>26.3</b>	<b>29.8</b>
<b>1979</b>	<b>Average</b>	<b>45.0</b>	<b>46.8</b>	<b>36.6</b>	<b>38.9</b>	<b>39.9</b>	<b>43.6</b>
<b>1980</b>	<b>Average</b>	<b>60.8</b>	<b>67.5</b>	<b>47.9</b>	<b>52.3</b>	<b>52.8</b>	<b>60.7</b>
<b>1981</b>	<b>Average</b>	<b>74.8</b>	<b>82.9</b>	<b>62.2</b>	<b>67.3</b>	<b>66.3</b>	<b>75.6</b>
<b>1982</b>	<b>Average</b>	<b>69.5</b>	<b>74.7</b>	<b>57.2</b>	<b>61.1</b>	<b>61.2</b>	<b>67.6</b>
<b>1983</b>	January	65.0	70.5	57.0	60.1	60.3	64.2
	February	63.0	66.0	55.7	58.5	58.5	62.0
	March	60.0	66.2	55.9	57.0	57.7	60.9
	April	60.1	64.3	56.5	58.7	57.7	61.0
	May	62.6	66.9	57.8	59.7	59.2	63.2
	June	63.2	69.2	58.5	60.1	60.2	64.7
	July	65.2	70.4	60.5	61.4	62.2	65.9
	August	66.7	71.6	62.0	63.2	63.8	67.7
	September	67.0	72.6	63.3	65.3	64.6	69.0
	October	68.8	72.1	62.6	64.9	64.7	68.7
	November	66.5	70.7	62.2	64.4	63.6	67.4
	December	67.3	72.0	60.2	63.1	62.3	67.2
	<b>Average</b>	<b>64.3</b>	<b>69.5</b>	<b>59.1</b>	<b>61.1</b>	<b>60.9</b>	<b>65.1</b>
<b>1984</b>	January	71.0	73.6	62.3	64.6	64.8	69.0
	February	71.4	75.1	65.7	65.8	67.5	70.4
	March	70.5	73.1	61.9	64.7	64.5	68.5
	April	69.2	73.1	64.7	66.5	66.2	69.1
	May	68.3	72.7	65.0	67.4	66.0	69.5
	June	69.8	73.2	66.1	68.9	67.2	71.0
	July	66.8	71.5	64.0	66.7	65.0	69.0
	August	65.6	69.5	62.7	65.0	63.6	67.1
	September	65.9	70.0	63.8	64.9	64.5	67.5
	October	66.8	70.8	64.3	65.8	65.1	67.8
	November	66.8	70.4	63.6	65.8	64.6	67.9
	December	67.5	70.5	63.3	65.6	64.6	67.7
	<b>Average</b>	<b>68.5</b>	<b>72.0</b>	<b>63.9</b>	<b>65.9</b>	<b>65.4</b>	<b>68.7</b>
<b>1985</b>	January	67.6	71.1	63.3	66.5	64.7	68.4
	February	67.6	71.2	63.4	66.3	65.0	68.7
	March	66.2	R70.1	R60.8	65.0	R62.4	R67.2
	April†	63.0	67.7	58.7	61.9	60.2	64.2

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

†Preliminary data. R=Revised data.

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

•Prices prior to January 1983 are Energy Information Administration estimates. See Note 8 in the Notes and Sources for this section for additional information.

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

# Price

## Refiner and Gas Plant Operator Sales Prices of Petroleum Products for Resale<sup>1</sup>

		Finished Motor Gasoline <sup>2</sup>	Finished Aviation Gasoline	Kerosene-Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
Cents per gallon, excluding tax								
<b>1978</b>	<b>Average</b>	<b>43.4</b>	<b>53.7</b>	<b>38.6</b>	<b>40.4</b>	<b>36.9</b>	<b>36.5</b>	<b>23.7</b>
<b>1979</b>	<b>Average</b>	<b>63.7</b>	<b>72.1</b>	<b>66.0</b>	<b>62.4</b>	<b>56.9</b>	<b>57.4</b>	<b>29.1</b>
<b>1980</b>	<b>Average</b>	<b>94.1</b>	<b>112.8</b>	<b>86.8</b>	<b>86.4</b>	<b>80.3</b>	<b>80.1</b>	<b>41.5</b>
<b>1981</b>	<b>Average</b>	<b>106.4</b>	<b>125.0</b>	<b>101.2</b>	<b>106.6</b>	<b>97.6</b>	<b>97.2</b>	<b>46.6</b>
<b>1982</b>	<b>Average</b>	<b>97.3</b>	<b>122.8</b>	<b>95.3</b>	<b>101.8</b>	<b>91.4</b>	<b>91.4</b>	<b>42.7</b>
<b>1983</b>	January	88.5	124.8	91.8	94.2	85.7	85.5	47.0
	February	85.4	123.7	89.9	90.0	80.1	80.7	46.7
	March	82.9	121.2	84.5	83.1	76.0	75.2	47.4
	April	86.5	120.0	82.9	84.2	78.9	76.8	50.0
	May	90.4	120.2	84.3	87.7	80.9	80.2	50.5
	June	91.5	115.0	84.1	84.6	80.9	80.3	50.9
	July	92.3	115.2	84.8	85.2	81.7	80.8	50.7
	August	91.5	114.7	85.4	86.7	83.4	81.7	49.8
	September	90.2	113.7	86.3	91.9	85.1	83.5	50.1
	October	88.1	118.9	86.4	90.8	83.5	83.0	49.9
	November	86.6	118.7	84.4	90.4	82.6	82.0	47.3
	December	83.8	118.8	83.6	88.6	80.7	80.1	45.4
	<b>Average</b>	<b>88.2</b>	<b>117.8</b>	<b>85.4</b>	<b>89.2</b>	<b>81.5</b>	<b>80.8</b>	<b>48.4</b>
<b>1984</b>	January	83.2	116.7	86.4	95.9	87.5	82.6	47.7
	February	83.8	116.5	86.5	100.4	89.2	84.5	47.4
	March	84.7	117.1	84.6	91.5	81.3	81.0	45.3
	April	86.9	116.8	84.2	90.7	82.8	80.8	44.6
	May	86.6	117.1	84.3	90.9	83.2	81.9	44.4
	June	84.5	116.8	84.2	88.1	82.4	81.9	44.1
	July	81.7	117.2	82.8	87.6	79.4	79.3	42.3
	August	81.1	116.7	81.0	86.0	77.8	77.7	43.2
	September	82.8	116.8	81.7	88.8	80.0	78.4	44.8
	October	83.6	116.4	82.9	88.9	80.8	80.0	46.1
	November	81.9	114.8	81.4	88.0	79.4	79.0	45.6
	December	78.0	114.0	80.1	86.4	77.1	77.0	43.0
	<b>Average</b>	<b>83.2</b>	<b>116.5</b>	<b>83.0</b>	<b>91.6</b>	<b>82.1</b>	<b>80.3</b>	<b>45.0</b>
<b>1985</b>	January	75.2	114.5	79.5	85.8	75.7	74.9	40.0
	February	76.3	114.0	79.3	86.5	75.2	74.1	39.4
	March	81.0	113.6	78.6	85.7	76.4	75.6	R38.0
	April†	85.8	112.6	79.3	84.7	79.3	79.2	37.9

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

<sup>2</sup>See Note 5 in the Notes and Sources for this section.

†Preliminary data. R = Revised data.

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

• Prices prior to January 1983 are Energy Information Administration estimates. See Note 8 in the Notes and Sources for this section for additional information.

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

# Price

## Refiner and Gas Plant Operator Sales Prices of Petroleum Products to End Users<sup>1</sup>

		Finished Motor Gasoline <sup>2</sup>	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
Cents per gallon, excluding tax								
<b>1978</b>	<b>Average</b>	<b>48.4</b>	<b>51.6</b>	<b>38.7</b>	<b>42.1</b>	<b>40.0</b>	<b>37.7</b>	<b>33.5</b>
<b>1979</b>	<b>Average</b>	<b>71.3</b>	<b>68.9</b>	<b>54.7</b>	<b>58.5</b>	<b>51.6</b>	<b>58.5</b>	<b>35.7</b>
<b>1980</b>	<b>Average</b>	<b>103.5</b>	<b>108.4</b>	<b>86.8</b>	<b>90.2</b>	<b>78.8</b>	<b>81.8</b>	<b>48.2</b>
<b>1981</b>	<b>Average</b>	<b>114.7</b>	<b>130.3</b>	<b>102.4</b>	<b>112.3</b>	<b>91.4</b>	<b>99.5</b>	<b>56.5</b>
<b>1982</b>	<b>Average</b>	<b>106.0</b>	<b>131.2</b>	<b>96.3</b>	<b>108.9</b>	<b>90.5</b>	<b>94.2</b>	<b>59.2</b>
<b>1983</b>	January	97.1	129.2	94.5	104.5	100.9	89.2	72.7
	February	92.5	127.2	92.6	101.4	97.0	84.0	71.7
	March	89.8	126.6	90.6	97.1	93.0	78.0	68.1
	April	94.7	125.2	88.8	93.4	89.1	78.8	68.6
	May	96.6	125.4	87.8	93.8	89.5	81.8	72.2
	June	97.8	125.6	86.3	90.0	87.3	81.5	67.3
	July	98.8	125.1	85.6	89.0	85.1	82.0	66.4
	August	98.4	125.9	85.5	90.8	86.1	83.0	68.9
	September	96.9	124.2	86.1	92.7	88.0	84.8	74.9
	October	95.4	124.7	86.0	98.9	89.0	84.2	69.6
	November	93.9	124.5	85.8	100.0	90.1	83.5	72.8
	December	92.4	124.4	85.5	96.6	92.1	82.2	76.4
	<b>Average</b>	<b>95.4</b>	<b>125.5</b>	<b>87.8</b>	<b>96.1</b>	<b>91.6</b>	<b>82.6</b>	<b>70.9</b>
<b>1984</b>	January	90.6	123.9	85.8	106.8	97.7	84.4	76.8
	February	90.2	123.7	86.5	117.9	104.6	87.4	76.3
	March	90.7	123.8	85.6	111.3	94.7	83.2	76.4
	April	92.9	124.4	85.1	105.8	91.9	82.4	76.5
	May	93.4	123.9	85.2	102.4	90.9	83.2	70.4
	June	92.5	124.6	84.5	94.3	86.9	84.0	70.6
	July	90.4	124.3	84.1	90.6	84.3	81.3	69.6
	August	89.2	123.2	83.4	92.8	82.8	79.7	71.9
	September	89.7	123.7	83.1	99.2	84.3	80.2	73.4
	October	90.5	123.3	83.2	102.7	87.3	81.6	74.1
	November	89.9	119.3	82.4	106.1	87.7	80.7	73.8
	December	88.0	121.9	82.2	101.4	88.1	79.4	70.0
	<b>Average</b>	<b>90.7</b>	<b>123.4</b>	<b>84.2</b>	<b>103.6</b>	<b>91.6</b>	<b>82.3</b>	<b>73.7</b>
<b>1985</b>	January	84.6	121.7	81.4	106.0	87.0	77.6	78.8
	February	83.6	121.1	80.9	103.7	86.1	76.7	76.1
	March	R87.1	121.4	80.4	R103.1	R86.0	77.0	74.6
	April†	92.4	121.2	80.1	101.0	85.6	79.9	75.9

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

<sup>2</sup>See Note 5 in the Notes and Sources for this section.

†Preliminary data. R=Revised data.

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

•Prices prior to January 1983 are Energy Information Administration estimates. See Note 8 in the Notes and Sources for this section for additional information.

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

# Price

## Sales Prices of No. 2 Distillate to Residences for Selected States<sup>1</sup>

		CT	ME	MA	NH	RI	VT	DE	DC	MD	NJ	NY	PA	VA
		Cents per gallon, excluding tax												
<b>1978</b>	<b>Average</b>	50.1	48.6	48.8	50.3	50.7	50.8	47.8	50.7	49.2	49.6	50.1	48.8	49.1
<b>1979</b>	<b>Average</b>	72.0	68.8	70.9	72.5	72.8	72.5	68.2	74.2	70.1	71.0	71.2	69.8	70.4
<b>1980</b>	<b>Average</b>	98.0	96.3	97.8	100.4	101.1	101.5	95.4	102.6	97.9	97.9	98.2	96.4	98.5
<b>1981</b>	<b>Average</b>	121.7	120.4	121.3	123.7	123.8	125.4	117.3	127.4	121.4	121.5	123.2	118.1	120.5
<b>1982</b>	<b>Average</b>	118.3	115.5	117.6	117.4	120.1	120.1	111.3	124.5	117.1	117.4	120.5	113.7	117.7
<b>1983</b>	January	119.5	109.0	116.3	111.6	116.2	121.5	110.5	122.8	115.4	115.7	120.6	113.7	116.0
	February	115.8	103.7	113.2	105.5	112.2	116.9	108.2	119.7	112.6	110.4	117.6	109.6	112.0
	March	108.3	97.4	105.4	100.8	106.8	109.6	103.9	115.3	108.2	104.6	110.2	104.0	106.9
	April	104.5	99.5	104.4	100.9	108.8	110.6	103.0	113.1	107.9	104.4	106.9	101.8	106.7
	May	105.9	101.6	107.0	102.6	109.6	111.2	104.6	112.9	108.6	105.5	108.2	103.3	107.2
	June	104.3	102.6	105.9	101.2	112.0	112.8	107.3	114.7	108.3	104.6	110.5	102.2	106.8
	July	104.2	102.6	105.3	104.3	109.1	112.3	107.8	112.8	107.2	104.5	109.9	101.3	107.4
	August	103.8	105.6	105.4	103.5	107.9	111.7	102.5	113.3	107.0	105.5	110.0	101.6	107.7
	September	103.8	103.8	106.2	104.0	108.1	111.0	103.5	113.9	108.1	106.1	110.5	102.8	108.1
	October	104.3	102.9	105.6	103.1	108.0	109.4	103.5	113.4	108.7	105.4	110.3	103.3	104.8
	November	104.1	101.8	106.1	101.5	108.7	109.8	103.7	113.5	108.8	104.6	110.2	103.7	104.9
	December	105.6	102.2	108.1	103.7	109.4	110.0	105.5	114.7	109.2	106.7	110.9	104.6	105.2
		<b>Average</b>	<b>109.1</b>	<b>102.8</b>	<b>109.1</b>	<b>104.1</b>	<b>110.5</b>	<b>112.9</b>	<b>106.0</b>	<b>117.0</b>	<b>110.3</b>	<b>107.9</b>	<b>112.1</b>	<b>105.8</b>
<b>1984</b>	January	115.7	110.2	114.4	114.0	113.7	116.6	114.8	122.0	115.6	114.1	118.3	112.9	111.4
	February	121.7	112.6	119.7	117.8	117.5	118.9	118.4	128.6	121.9	119.5	124.3	117.4	117.5
	March	114.5	103.3	113.1	108.8	111.7	115.1	111.1	122.6	116.2	113.5	117.0	110.9	112.6
	April	113.4	103.3	112.4	107.7	110.7	113.3	109.9	119.9	115.6	110.6	116.0	107.8	110.8
	May	112.5	102.7	112.5	108.8	111.4	112.2	109.0	119.5	113.0	109.1	114.5	105.8	111.1
	June	110.6	103.7	110.5	104.5	110.8	112.8	107.2	116.3	109.9	107.1	115.0	103.3	108.7
	July	107.4	102.5	107.3	101.9	109.3	108.6	103.7	116.5	109.0	104.9	112.8	99.7	107.2
	August	104.7	98.0	105.5	98.6	106.0	108.0	103.7	109.8	105.2	103.6	110.2	99.6	105.2
	September	105.4	99.1	106.0	101.0	105.9	106.9	102.1	109.9	106.7	104.3	109.3	100.9	105.9
	October	106.2	101.9	106.9	102.2	107.4	108.0	103.5	111.8	107.5	105.7	111.9	101.5	106.7
	November	107.2	100.6	107.2	102.7	106.5	107.5	103.3	111.9	108.2	105.2	111.7	102.9	107.1
	December	106.4	97.9	107.0	103.1	107.1	106.4	102.8	112.9	107.1	104.9	111.3	103.2	107.7
		<b>Average</b>	<b>112.1</b>	<b>103.9</b>	<b>111.6</b>	<b>108.4</b>	<b>111.4</b>	<b>111.9</b>	<b>109.6</b>	<b>118.7</b>	<b>113.5</b>	<b>111.0</b>	<b>115.5</b>	<b>107.9</b>
<b>1985</b>	January	106.9	97.9	107.2	101.3	108.1	106.9	103.8	112.1	107.5	105.0	111.3	102.9	106.2
	February	107.2	98.5	107.1	102.7	106.9	107.3	104.0	117.1	108.6	105.7	112.0	103.2	106.8
	March	106.8	R100.6	107.3	R103.3	106.2	107.9	104.6	115.9	108.3	105.1	111.3	102.1	R105.8
	April†	105.9	101.8	106.8	102.0	106.9	106.5	105.1	113.7	109.7	102.1	NA	100.9	105.4

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

# Price

## Sales Prices of No. 2 Distillate to Residences for Selected States<sup>1</sup> (continued)

		WV	IL	IN	MI	MN	OH	WI	ID	AK	OR	WA	U.S. Average
		Cents per gallon, excluding tax											
<b>1978</b>	<b>Average</b>	<b>46.2</b>	<b>46.5</b>	<b>48.5</b>	<b>47.9</b>	<b>47.8</b>	<b>47.4</b>	<b>44.7</b>	<b>43.6</b>	<b>53.2</b>	<b>45.8</b>	<b>48.6</b>	<b>49.0</b>
<b>1979</b>	<b>Average</b>	<b>65.1</b>	<b>68.8</b>	<b>72.7</b>	<b>70.9</b>	<b>72.4</b>	<b>68.6</b>	<b>67.3</b>	<b>62.1</b>	<b>68.2</b>	<b>68.0</b>	<b>69.7</b>	<b>70.4</b>
<b>1980</b>	<b>Average</b>	<b>92.2</b>	<b>95.8</b>	<b>99.6</b>	<b>97.8</b>	<b>99.9</b>	<b>91.9</b>	<b>91.5</b>	<b>91.6</b>	<b>97.8</b>	<b>97.3</b>	<b>100.8</b>	<b>97.4</b>
<b>1981</b>	<b>Average</b>	<b>115.0</b>	<b>114.9</b>	<b>118.5</b>	<b>118.3</b>	<b>118.4</b>	<b>113.2</b>	<b>109.1</b>	<b>110.4</b>	<b>118.0</b>	<b>111.4</b>	<b>116.5</b>	<b>119.4</b>
<b>1982</b>	<b>Average</b>	<b>109.3</b>	<b>110.9</b>	<b>114.3</b>	<b>113.9</b>	<b>115.1</b>	<b>110.2</b>	<b>107.8</b>	<b>110.4</b>	<b>117.4</b>	<b>111.6</b>	<b>117.6</b>	<b>116.0</b>
<b>1983</b>	January	105.6	103.8	105.7	110.6	107.8	107.9	108.5	109.1	114.6	113.6	117.7	115.0
	February	104.7	99.5	102.8	108.5	101.6	104.4	104.5	104.8	NA	107.8	114.3	111.6
	March	99.2	96.6	95.7	103.7	96.5	98.2	96.8	99.6	110.7	101.4	109.0	105.1
	April	97.5	97.7	96.8	102.5	100.5	95.8	97.1	99.0	106.6	99.1	106.0	103.5
	May	96.1	100.3	98.2	102.7	101.9	96.5	98.7	99.2	106.0	99.0	105.5	104.8
	June	97.3	100.2	98.2	110.7	102.4	96.1	98.7	98.7	105.0	99.4	105.4	106.0
	July	94.9	99.6	99.4	105.3	102.6	97.3	99.0	99.3	105.8	97.8	105.2	105.0
	August	96.1	100.7	98.9	102.2	104.4	95.2	99.2	98.1	105.1	98.7	104.0	104.9
	September	100.7	102.5	101.4	103.9	103.7	101.2	100.7	98.9	106.2	100.5	105.6	105.7
	October	100.6	101.0	101.5	105.8	104.8	100.2	101.8	99.5	106.1	101.4	106.3	106.0
	November	100.5	100.8	100.7	105.4	104.4	101.0	100.4	99.5	105.5	102.1	106.4	106.0
	December	101.5	99.6	101.1	106.8	104.2	102.1	100.5	100.3	105.5	101.8	106.1	106.7
		<b>Average</b>	<b>101.0</b>	<b>100.4</b>	<b>100.7</b>	<b>106.4</b>	<b>103.1</b>	<b>101.3</b>	<b>101.2</b>	<b>101.8</b>	<b>108.8</b>	<b>103.6</b>	<b>109.0</b>
<b>1984</b>	January	108.5	104.7	106.0	107.3	106.6	104.6	101.5	100.1	104.1	100.5	103.6	112.0
	February	109.9	105.9	107.3	108.0	102.8	105.7	102.8	101.3	106.5	100.9	103.8	116.9
	March	104.9	102.3	100.6	105.6	105.1	101.7	101.7	97.2	107.3	100.9	104.6	111.3
	April	101.6	100.3	103.4	104.8	103.9	101.9	101.4	96.2	107.3	100.6	105.0	109.8
	May	98.9	102.3	102.4	105.2	105.3	103.1	101.0	98.1	107.2	99.5	104.2	108.4
	June	99.5	101.6	105.9	103.3	104.2	101.7	100.5	93.8	107.8	98.2	103.3	107.2
	July	96.2	99.4	101.4	102.6	105.1	101.8	100.5	93.1	107.2	97.1	100.4	104.8
	August	96.6	98.9	100.3	101.8	104.5	99.5	100.0	97.4	107.3	94.9	99.7	103.3
	September	96.9	98.6	100.7	103.2	103.5	100.1	98.8	98.4	105.0	95.9	100.4	103.6
	October	98.3	97.1	100.9	103.0	103.0	101.2	100.7	99.4	107.8	96.5	100.9	104.9
	November	99.6	95.8	102.3	103.5	103.1	100.8	101.0	97.9	107.8	97.6	101.3	105.3
	December	99.2	94.4	100.9	103.2	102.8	99.3	99.0	98.8	107.5	97.4	100.5	104.8
		<b>Average</b>	<b>102.1</b>	<b>100.1</b>	<b>103.1</b>	<b>105.0</b>	<b>104.1</b>	<b>102.1</b>	<b>101.0</b>	<b>98.5</b>	<b>106.9</b>	<b>99.3</b>	<b>102.6</b>
<b>1985</b>	January	98.6	95.2	98.6	102.1	99.5	98.3	97.3	96.8	108.6	96.1	100.6	104.9
	February	98.3	94.4	97.8	101.0	99.8	98.7	96.1	96.9	107.6	96.6	99.8	105.3
	March	98.1	94.5	R96.3	R101.3	101.0	97.9	96.4	96.6	112.8	95.7	100.3	105.0
	April†	99.9	96.8	98.7	98.2	101.5	97.4	96.8	96.1	NA	95.4	99.2	103.8

Footnotes continued.

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

Note: • Prices prior to January 1983 are Energy Information Administration estimates. See Note 8 in the Notes and Sources for this section for additional information.

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

# Price

## National Average Natural Gas Prices

		Wellhead Price	Imports by Major Interstate Pipeline Companies	Purchased from Producers by Major Interstate Pipeline Companies	Industrial Sales by Major Interstate Pipeline Companies <sup>1</sup>	Purchased by Electric Plants <sup>1, 2</sup>	Residential Price <sup>1, 3</sup>
Dollars per thousand cubic feet							
1973	Average	0.22	NA	NA	NA	0.35	1.29
1974	Average	0.30	NA	NA	NA	0.49	1.43
1975	Average	0.45	NA	NA	NA	0.77	1.71
1976	Average	0.58	NA	NA	NA	1.06	1.98
1977	Average	0.79	NA	NA	NA	1.33	2.35
1978	Average	0.91	2.21	0.83	1.54	1.48	2.56
1979	Average	1.18	2.60	1.22	2.01	1.80	2.98
1980	Average	1.59	4.42	1.63	2.53	2.28	3.68
1981	Average	1.98	4.84	2.15	3.11	2.91	4.29
1982	Average	2.46	4.94	2.72	3.73	3.49	5.17
1983	January	2.66	5.03	3.06	4.38	3.57	5.86
	February	2.66	5.09	3.15	4.41	3.41	5.87
	March	2.58	5.01	3.01	4.24	3.45	6.00
	April	2.53	4.58	2.90	4.44	3.35	6.06
	May	2.53	4.40	2.98	4.24	3.55	6.22
	June	2.59	4.41	2.95	4.22	3.58	6.20
	July	2.52	4.31	2.96	4.28	3.72	6.21
	August	2.58	3.93	2.90	4.23	3.75	6.18
	September	2.67	4.02	2.87	4.08	3.70	6.19
	October	2.58	4.03	2.86	4.22	R3.62	6.10
	November	2.60	4.26	2.84	4.26	R3.54	6.04
	December	2.61	4.33	2.73	4.12	3.49	6.06
		<b>Average</b>	<b>2.59</b>	<b>4.51</b>	<b>2.93</b>	<b>4.26</b>	<b>3.58</b>
1984	January	2.65	4.40	2.80	4.25	R3.55	5.98
	February	2.70	4.37	2.82	3.97	R3.61	6.01
	March	R2.61	4.40	2.80	4.18	R3.52	5.98
	April	2.59	4.23	2.95	4.11	R3.57	6.00
	May	2.61	4.15	2.86	4.17	R3.75	6.19
	June	R2.64	4.25	2.89	4.06	R3.76	6.13
	July	R2.62	4.15	2.95	4.04	R3.89	6.17
	August	R2.63	4.12	2.95	4.07	R3.80	6.20
	September	R2.56	4.34	2.84	4.10	R3.83	6.26
	October	R2.57	4.19	2.96	4.06	R3.75	6.25
	November	R2.56	3.43	3.13	4.26	R3.72	6.12
	December	R2.51	3.34	2.95	4.22	R3.69	6.09
		<b>Average</b>	<b>R2.60</b>	<b>4.08</b>	<b>2.91</b>	<b>4.13</b>	<b>R3.72</b>
1985	January	R2.65	3.21	2.89	4.19	3.77	6.19
	February	R2.64	3.08	2.87	4.15	R3.72	6.12
	March	2.62	3.29	2.90	4.01	3.79	6.16
	April	NA	NA	NA	NA	NA	6.14

A new series for residential natural gas prices is being developed to replace the series shown here. The new series is based on monthly data now being collected on Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and is shown in the *Natural Gas Monthly*, DOE/EIA-0130. Monthly prices in the new series differ from the old series shown here, but annual prices through 1983 are the same in both series. Annual prices for 1984 will also be the same when finalized.

<sup>1</sup>Includes supplemental gaseous fuels.

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

<sup>3</sup>Monthly residential prices are Energy Information Administration calculations. See Note 6 in the Notes and Sources for this section for estimation procedures.

<sup>4</sup>The increase from the previous month was primarily the result of the expiration of large, long-term, low-priced intrastate contracts in Texas.

R=Revised data. NA=Not available.

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

• Data for 1973 through December 1983 are final. All other data are preliminary unless otherwise indicated.

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



# Price

## Electricity

### Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants<sup>2</sup>

### Average Retail Electricity Prices<sup>1</sup> for Selected Privately Owned Utilities<sup>3</sup>

		Coal	Heavy Oil <sup>4</sup>	Natural Gas <sup>5</sup>	All Fossil Fuels <sup>4</sup>	Residential	Commercial	Industrial	Other	Total <sup>6</sup>
		Cents per million Btu				Cents per kilowatt-hour				
1973	Average	40.5	78.5	33.8	47.6	2.54	2.41	1.25	2.10	1.96
1974	Average	70.9	189.0	48.2	91.4	3.10	3.04	1.69	2.75	2.49
1975	Average	81.4	200.5	75.2	104.4	3.51	3.45	2.07	3.08	2.92
1976	Average	84.8	195.2	103.4	111.9	3.73	3.69	2.21	3.27	3.09
1977	Average	94.7	219.8	129.1	129.7	4.05	4.09	2.50	3.51	3.42
1978	Average	111.6	212.5	142.2	141.1	4.31	4.36	2.79	3.62	3.69
1979	Average	122.4	298.8	174.9	163.9	4.64	4.68	3.05	3.96	3.99
1980	Average	135.1	426.7	219.9	192.8	5.36	5.48	3.69	4.76	4.73
1981	Average	153.2	533.4	280.5	225.6	6.20	6.29	4.29	5.28	5.46
1982	Average	164.7	483.2	337.6	224.9	6.86	6.86	4.95	5.92	6.13
1983	January	<sup>2</sup> 166.8	<sup>2</sup> 448.9	<sup>2</sup> 347.1	<sup>2</sup> 216.7	6.65	6.78	5.03	5.91	6.13
	February	167.8	441.4	331.9	213.9	6.73	6.86	4.96	5.97	6.12
	March	168.1	426.0	336.1	215.5	6.93	6.93	5.07	6.16	6.23
	April	168.5	431.6	326.1	215.8	6.91	6.86	4.92	6.15	6.12
	May	165.0	446.6	344.3	216.6	7.20	7.04	4.89	6.60	6.21
	June	167.3	453.6	347.2	220.9	7.41	7.13	4.96	6.62	6.35
	July	165.3	467.0	361.1	237.4	7.50	7.13	5.11	6.24	6.53
	August	164.3	470.4	363.2	230.1	7.52	7.06	5.01	6.37	6.51
	September	163.9	482.8	358.1	226.4	7.55	7.15	5.00	6.58	6.52
	October	164.6	479.6	350.1	219.8	7.50	7.19	5.01	6.66	6.41
	November	163.6	472.2	340.5	212.2	7.25	7.13	4.83	6.63	6.23
	December	162.2	468.7	338.7	219.2	6.97	6.91	4.81	6.40	6.14
	Average	165.6	457.8	347.4	220.6	7.18	7.01	4.97	6.36	6.29
1984	January	161.6	488.9	343.7	221.0	6.77	6.81	4.86	6.33	6.14
	February	164.9	496.3	347.5	217.4	6.97	7.01	4.86	6.51	6.19
	March	163.4	484.0	339.8	208.4	7.18	7.14	4.88	6.68	6.27
	April	165.7	494.1	344.4	210.6	7.33	7.25	4.88	6.73	6.30
	May	168.6	486.9	360.4	220.3	7.59	7.30	4.92	6.85	6.40
	June	169.1	488.3	360.9	223.2	7.90	7.48	5.09	6.78	6.65
	July	168.2	474.6	373.1	231.3	8.00	7.51	5.21	6.97	6.83
	August	167.2	459.6	365.6	223.5	8.06	7.51	5.15	6.75	6.82
	September	167.4	472.5	368.0	217.5	8.06	7.64	5.25	7.05	6.88
	October	168.7	474.1	361.4	218.8	7.95	7.63	5.13	6.86	6.71
	November	166.6	470.6	357.2	216.8	7.62	7.43	5.06	6.99	6.54
	December	165.0	480.4	355.4	218.7	7.34	7.30	5.07	6.70	6.48
	Average	166.4	481.2	358.3	219.2	7.56	7.33	5.03	6.76	6.52
1985	January	164.0	472.7	364.2	218.8	7.28	7.25	5.12	6.80	6.52
	February	167.3	482.4	358.1	218.4	7.19	7.21	5.12	6.77	6.47
	March	167.5	458.9	365.1	210.2	7.48	7.36	5.13	7.01	6.55
	April†	NA	NA	NA	NA	7.73	7.44	5.09	6.95	6.58

<sup>1</sup>Prices are calculated by dividing revenues by sales. Revenues may not correspond to sales for a particular month because of utility billing and accounting procedures. This could result in uncharacteristic increases or decreases in the monthly prices.

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

<sup>3</sup>Data through 1979 cover privately owned electric utilities in Classes A and B. Data for 1980 forward cover selected privately owned electric utilities in Class A whose electric operating revenues were \$100 million or more during the previous year.

<sup>4</sup>See Note 7 in the Notes and Sources for this section.

<sup>5</sup>Includes supplemental gaseous fuels.

<sup>6</sup>Average price for total sales to ultimate consumers.

†Initial estimates. NA=Not available.

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

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

## Notes and Sources for the Price Section

### Notes

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

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

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

4. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on EIA Form 14, the "Refiners' Monthly Cost Report." These prices were previously published from data collected on ERA Form 49, the "Domestic Crude Oil Entitlements Program Refiners Monthly Report." The ERA Form 49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for EIA Form 14 in accordance with conventions used for ERA Form 49. Also, the respondents for the two forms are essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken in comparing the data collected on the two forms.

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

Crude oil costs and volumes reported on ERA Form 49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported on the FEA Form P110-M-1 included unfinished oils but excluded SPR. Imported averages derived from ERA Form 49 exclude oil purchased for SPR, whereas the composite averages derived from ERA Form 49 include SPR. None of the prices derived from EIA Form 14 include either unfinished oils or SPR.

5. Several different series of motor gasoline prices are published in this section. U.S. City Average Retail Prices for Motor Gasoline are calculated monthly by the Bureau of Labor Statistics during the development of the Consumer Price Index (CPI). These prices include all Federal, State, and local taxes paid at the time of sale. For the period 1974 through 1978, prices were collected in 56 urban areas. For the period 1978 forward, prices were collected from a new sample of service stations in 85 urban areas selected to

represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-serve).

Refiner and Gas Plant Operator Sales Prices of Finished Motor Gasoline for Resale and to End-Users are determined by the Energy Information Administration in a monthly survey of refiners and gas plant operators (Form EIA-782A). The prices do not include any Federal, State, or local taxes paid at the time of sale. Estimates of prices prior to January 1983 are based on FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices," and also exclude all Federal, State, or local taxes paid at the time of sale. Sales for Resale are those made to purchasers who are other-than-ultimate consumers. Sales to End-Users are sales made directly to the consumer of the product, including bulk consumers such as agriculture, industry, and utilities, as well as residential and commercial consumers.

6. The monthly national average price of residential natural gas is based on data from the Bureau of Labor Statistics Consumer Price Index for All Urban Consumers (CPI-U) for natural gas (piped) and on data from Form EIA-176. Initial monthly estimates are obtained by multiplying the annual average price of residential natural gas collected on Form EIA-176 by the ratio of monthly values of the natural gas CPI-U for consecutive months. When a subsequent year's annual average price becomes available, the initial monthly estimates are adjusted to this annual average.

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

8. Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. Every attempt was made to continue the most important price series. However, prices published through December 1982 and those published since January 1983 do not necessarily form continuous data series due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous annual data series have been generated for 1978-1980, and monthly series for 1981 and 1982, by estimating the prices that would have been published had the EIA-782 survey and system been in operation at that time. This form of estimation was performed after detailed adjustment for product and sales type matching, and for discontinuity due to other factors. An important difference between the previous and present prices is the distinction between wholesale and resale, and between retail and end-user. The resale category continues to include sales among resellers. However, bulk sales to utility, industrial, and commercial accounts previously included in the wholesale category are now counted as made to end users. The end user category continues to include retail sales through company owned and operated outlets but also includes the bulk utility, industrial, and commercial sales. Additional information may be found in "Estimated Historic Time Series for the EIA-782," a feature article reprinted from the December 1983 [3] *Petroleum Marketing Monthly* published by the Energy Information Administration.

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

## Notes and Sources for the Price Section (continued)

### Sources

**Petroleum and Petroleum Products:** • Actual domestic average wellhead prices—Economic Regulatory Administration (ERA), January 1976: FEA Form 90, "Crude Petroleum Production Monthly Report"; February 1976 through September 1979: FEA Form P124, "Domestic Crude Oil Purchaser's (Monthly) Report"; October 1979 through December 1982: ERA Form 182, "Domestic Crude Oil First Purchase Report."; January 1983 forward: EIA Form 182, "Domestic Crude Oil First Purchase Report."

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

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

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

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

previous page for additional information on the estimated data.

• All other petroleum products—January 1983 forward, EIA Form-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report." Prices prior to January 1983 are EIA estimates using data from FEA Form 302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices." See Note 8 on the previous page for additional information on the estimated data.

**Natural Gas:** • Average wellhead price—annual data from EIA, *Natural Gas Annual*, 1973 through 1982. Monthly data are estimated primarily on the basis of values reported by State agencies in Mississippi, New Mexico, Oklahoma, and Texas. These States together account for almost 50 percent of total U.S. marketed production. Monthly data are adjusted to conform with final reported annual data.

• Imports, Purchased from Producers, and Industrial Sales by Major Interstate Pipeline Companies—FERC Form 11, "Interstate Pipeline Company Purchases, and Industrial Sales".

• Electric plant data—EIA, FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

• Residential Price—Annual data from EIA, *Natural Gas Annual*, 1973 through 1982. Monthly data are EIA estimates based on the Bureau of Labor Statistics Urban Consumer Price Index (CPI-U) for natural gas and are adjusted to conform with final reported annual data. See Note 6 on the previous page for estimation procedures.

**Electricity:** • Cost of fossil fuels—EIA, FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

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

## International

### Crude Oil Production

World crude oil production during April 1985 was 53.4 million barrels per day, down 0.6 million from the level in the previous month.

Organization of Petroleum Exporting Countries (OPEC) production during April 1985 averaged 16.2 million barrels per day, down 0.5 million from the level during the previous month. Production by the Arab members of OPEC during the month averaged 8.9 million barrels per day, down 0.5 million from the March 1985 level. During the same period, production decreased in Saudi Arabia by 365,000 barrels per day, in Kuwait by 115,000, in Qatar by 55,000, and in Algeria by 40,000 barrels per day. Production levels remained the same as during the previous month in Libya and the United Arab Emirates, while production increased in Iraq by 100,000 barrels per day. Among non-Arab OPEC countries during the month, production increased in Iran by 100,000 barrels per day. Production decreased in Nigeria and Indonesia by 100,000 and 60,000 barrels per day, respectively, while production in Venezuela remained the same as during the previous month.

Of the non-OPEC nations during April 1985, production increased in the United Kingdom and Mexico by 35,000 and 15,000 barrels per day, respectively. Production in the United States decreased by 85,000 barrels per day, while production in Canada remained the same as during the previous month.

### Petroleum Consumption

Preliminary petroleum consumption data for April 1985 were available for France, Italy, and the United States. Consumption in France and Italy decreased by 110,000 and 40,000 barrels per day, respectively, compared with levels 1 year earlier, while consumption in the United States decreased by 223,000 barrels per day compared with the April 1984 level.

### Petroleum Stocks

Preliminary data for April 1985 indicate that petroleum stock levels were lower compared with April 1984 levels in three of the five countries reporting. Petroleum stocks were down in Italy by 5.3 percent, in the United Kingdom by 4.1 percent, and in West Germany by 3.1 percent. Japan and the United States reported increases in petroleum stocks of 2.7 percent and 0.8 percent, respectively.

Petroleum stocks for all Organization for Economic Cooperation and Development members were 3,345 million barrels on December 31, 1984 (latest data available), an increase of 87 million barrels (2.7 percent) compared with stocks held on December 31, 1983.

### Nuclear Electricity Production

In April 1985, the 20 non-Communist nations with significant nuclear power capacity generated 93.2 gross terawatt-hours (billion kilowatt-hours) of nuclear-based electricity. This generation represents an increase of 17.7 percent compared with April 1984 generation. The United States accounted for 26.3 gross terawatt-hours (28.2 percent) of total generation in April 1985.

In West Germany, Philippsburg-2, a 1,350-gross-megawatt-electric pressurized-water reactor, went into commercial operation on April 18. Philippsburg-2, obtained criticality in December 1984 by achieving a sustained chain reaction. In Belgium, Doel-4, a 980-gross-megawatt-electric pressurized-water reactor, was connected to the Belgian electrical grid on April 28, as a step toward commercial operation.

With the additions of Philippsburg-2 and Doel-4, there were 283 operable reactors in the non-Communist countries as of April 30, 1985, with a collective gross generating capacity of 208.9 gigawatts (million kilowatts). In April 1985, the 89 operable U.S. units accounted for 77.7 gross gigawatts (37.2 percent) of the total non-Communist capacity.

# International

## Crude Oil Production for Major Petroleum Producing Countries

		Algeria	Iraq	Kuwait <sup>1</sup>	Libya	Qatar	Saudi Arabia <sup>1</sup>	United Arab Emirates	Arab Members of OPEC <sup>2</sup>	Indonesia	Iran
Thousand barrels per day											
1973	Average	1,097	2,018	3,020	2,175	570	7,596	1,533	18,009	1,339	5,861
1974	Average	1,009	1,971	2,546	1,521	518	8,480	1,679	17,724	1,375	6,022
1975	Average	983	2,262	2,084	1,480	438	7,075	1,664	15,986	1,307	5,350
1976	Average	1,075	2,415	2,145	1,933	497	8,577	1,936	18,578	1,504	5,883
1977	Average	1,152	2,348	1,969	2,063	445	9,245	1,999	19,221	1,686	5,663
1978	Average	1,161	2,563	2,131	1,983	487	8,301	1,831	18,457	1,635	5,242
1979	Average	1,154	3,477	2,500	2,092	508	9,532	1,831	21,094	1,591	3,168
1980	Average	1,012	2,514	1,656	1,787	472	9,900	1,709	19,050	1,577	1,662
1981	Average	805	1,000	1,125	1,140	405	9,815	1,474	15,764	1,605	1,380
1982	Average	710	1,012	823	1,150	330	6,483	1,250	11,758	1,339	2,214
1983	January	700	850	780	1,100	255	4,950	1,060	9,695	1,225	2,700
	February	600	850	895	900	200	3,510	1,060	8,015	1,015	2,400
	March	600	900	965	900	170	3,910	1,035	8,480	1,180	2,200
	April	700	950	880	1,000	260	3,930	1,145	8,865	1,400	2,000
	May	600	1,000	1,030	1,100	275	4,725	1,175	9,905	1,400	2,300
	June	700	1,000	920	1,100	300	4,620	1,180	9,820	1,400	2,500
	July	700	1,050	1,086	1,100	300	5,536	1,175	10,947	1,490	2,800
	August	700	1,100	1,181	1,100	265	5,931	1,185	11,462	1,490	2,500
	September	700	1,050	1,376	1,150	310	6,026	1,185	11,797	1,470	2,700
	October	700	1,100	1,305	1,150	320	6,005	1,165	11,745	1,520	2,400
	November	700	1,150	1,265	1,150	460	5,915	1,195	11,835	1,560	2,300
	December	700	1,050	1,075	1,150	420	5,825	1,195	11,415	1,440	2,300
		Average	675	1,005	1,064	1,076	295	5,086	1,147	10,348	1,385
1984	January	650	1,100	1,080	1,100	445	5,130	1,200	10,705	1,470	2,200
	February	600	1,000	1,240	1,100	315	5,040	1,200	10,495	1,575	2,300
	March	600	1,200	1,293	1,100	440	4,843	1,205	10,681	1,560	2,400
	April	600	1,200	1,250	1,200	400	5,150	1,205	11,005	1,570	2,200
	May	650	1,200	1,200	1,200	400	5,000	1,200	10,850	1,470	1,700
	June	700	1,200	1,200	1,250	500	5,450	1,225	11,525	1,520	2,200
	July	650	1,200	1,110	1,100	430	5,010	1,090	10,590	1,390	2,400
	August	650	1,300	1,220	1,000	400	4,520	990	10,080	1,410	1,800
	September	650	1,300	1,183	1,000	480	4,133	1,110	9,856	1,400	1,900
	October	650	1,200	1,129	1,000	380	4,129	1,060	9,548	1,430	2,100
	November	650	1,300	990	1,000	280	3,990	1,060	9,270	1,350	2,400
	December	600	1,300	990	1,000	260	3,590	1,210	8,950	1,450	2,500
		Average	638	1,209	1,157	1,087	394	4,663	1,146	10,294	1,466
1985	January	600	1,300	1,110	1,000	270	3,510	1,100	8,890	1,310	1,900
	February	650	1,300	1,125	1,000	290	4,025	1,160	9,550	1,330	2,100
	March	690	1,250	1,085	1,000	315	3,835	R1,215	R9,390	1,300	R2,200
	April	650	1,350	970	1,000	260	3,470	1,215	8,915	1,240	2,300
		Average	647	1,300	1,072	1,000	284	3,704	1,172	9,179	1,295

<sup>1</sup>Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In April 1985, total production in this region amounted to approximately 340,000 barrels per day.

<sup>2</sup>Arab members of the Organization of Petroleum Exporting Countries (OPEC) include Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.

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

Footnotes continued on following page.

# International

## Crude Oil Production for Major Petroleum Producing Countries (continued)

		Nigeria	Vene- zuela	Total OPEC <sup>a</sup>	Canada	Mexico	United Kingdom	United States	China	USSR	Other <sup>b</sup>	World
Thousand barrels per day												
1973	Average	2,054	3,366	30,989	1,800	465	2	9,208	1,090	8,465	3,655	55,674
1974	Average	2,255	2,976	30,729	1,684	571	2	8,774	1,315	9,000	3,777	55,852
1975	Average	1,783	2,346	27,155	1,439	705	12	8,375	1,490	9,625	4,079	52,880
1976	Average	2,067	2,294	30,738	1,295	831	245	8,132	1,670	10,143	4,258	57,312
1977	Average	2,085	2,238	31,298	1,320	981	768	8,245	1,874	10,682	4,517	59,685
1978	Average	1,897	2,166	29,805	1,313	1,209	1,082	8,707	2,082	11,185	4,674	60,057
1979	Average	2,302	2,356	30,928	1,496	1,461	1,568	8,552	2,122	11,460	4,948	62,535
1980	Average	2,055	2,168	26,891	1,435	1,936	1,622	8,597	2,114	11,773	5,170	59,538
1981	Average	1,433	2,102	22,646	1,285	2,313	1,811	8,572	2,012	11,909	5,352	55,900
1982	Average	1,295	1,895	18,868	1,372	2,748	2,065	8,649	2,045	12,080	5,631	53,458
1983	January	880	2,060	16,952	1,288	2,980	2,135	8,697	2,085	12,410	5,913	52,460
	February	675	1,758	14,250	1,425	2,295	2,315	8,758	2,110	12,410	6,014	49,577
	March	905	2,055	15,192	1,461	2,415	2,265	8,700	2,110	12,410	5,949	50,502
	April	1,150	1,694	15,506	1,320	2,670	2,170	8,776	2,120	12,000	6,110	50,672
	May	1,625	1,664	17,266	1,383	2,795	2,235	8,631	2,120	11,900	6,095	52,425
	June	1,535	1,669	17,326	1,577	2,775	2,045	8,667	2,120	11,900	6,195	52,605
	July	1,710	1,674	19,033	1,551	2,685	2,280	8,636	2,120	11,900	6,187	54,392
	August	1,300	1,709	18,878	1,488	2,775	2,290	8,679	2,130	11,900	6,092	54,232
	September	1,220	1,704	19,278	1,504	2,735	2,385	8,784	2,130	11,900	6,157	54,873
	October	1,290	1,718	19,075	1,456	2,660	2,355	8,771	2,130	11,900	6,266	54,613
	November	1,245	1,748	19,075	1,483	2,730	2,490	8,770	2,130	11,900	6,386	54,964
	December	1,310	1,753	18,620	1,467	2,690	2,530	8,397	2,130	11,900	6,421	54,155
	Average	1,241	1,768	17,562	1,450	2,686	2,291	8,688	2,120	12,034	6,150	52,981
1984	January	1,365	1,840	17,980	1,365	2,670	2,525	R8,868	2,200	11,900	6,656	R54,164
	February	1,565	1,815	18,140	1,445	2,755	2,600	R8,874	2,200	11,900	6,642	R54,556
	March	1,560	1,815	18,416	1,475	2,710	2,480	R8,672	2,200	11,750	6,576	R54,279
	April	1,300	1,815	18,300	1,430	2,770	2,475	R8,862	2,225	11,750	6,662	R54,474
	May	1,300	1,840	17,570	1,415	2,800	2,439	R8,955	2,225	11,900	6,737	R54,041
	June	1,400	1,805	18,870	1,470	2,820	2,350	R8,852	2,225	11,900	6,847	R55,334
	July	1,200	1,860	17,860	1,515	2,845	2,470	R8,885	2,305	11,870	6,851	R54,601
	August	1,150	1,820	16,670	1,435	2,680	2,300	R8,809	2,305	11,870	6,859	R52,928
	September	1,400	1,850	16,826	1,330	2,705	2,435	R8,993	2,335	11,790	6,970	R53,384
	October	1,600	1,800	16,893	1,450	2,675	2,615	R8,906	2,335	11,790	7,131	R53,795
	November	1,600	1,725	16,760	1,460	2,745	2,605	R8,979	2,335	11,750	7,183	R53,817
	December	1,600	1,770	16,685	1,445	2,830	2,645	R8,897	2,335	11,750	7,224	R53,811
	Average	1,419	1,813	17,577	1,436	2,750	2,495	R8,879	2,269	11,827	6,862	R54,094
1985	January	1,400	1,670	15,580	1,450	2,635	2,780	8,929	2,390	11,700	7,214	52,678
	February	1,690	1,680	16,770	1,450	2,685	2,650	8,928	2,390	11,700	7,253	53,826
	March	1,700	R1,670	R16,690	1,500	2,810	2,600	8,927	2,390	R11,700	7,324	R53,941
	April	1,600	1,670	16,155	1,500	2,825	2,635	8,842	2,390	11,700	7,324	53,371
	Average	1,595	1,672	16,288	1,475	2,739	2,667	8,906	2,390	11,700	7,279	53,445

Footnotes continued.

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

R = Revised data.

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

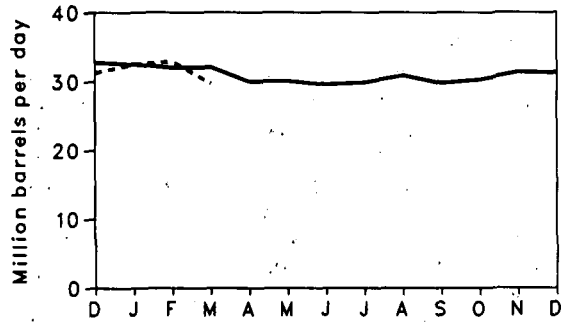
• Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.

Sources: • See the last page of this section.

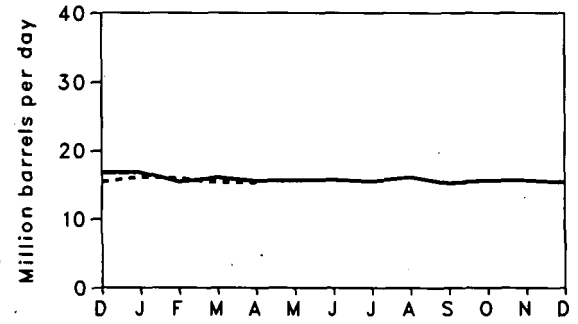
# International

## Petroleum Consumption for Major Non-Communist Industrialized Countries

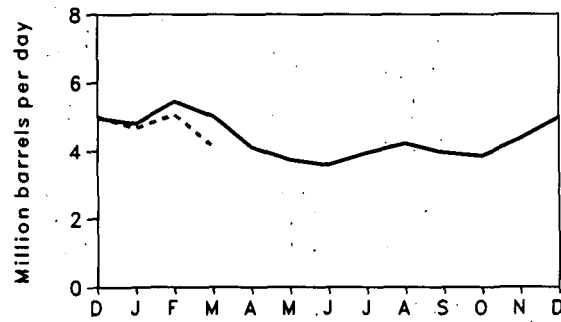
Total IEA



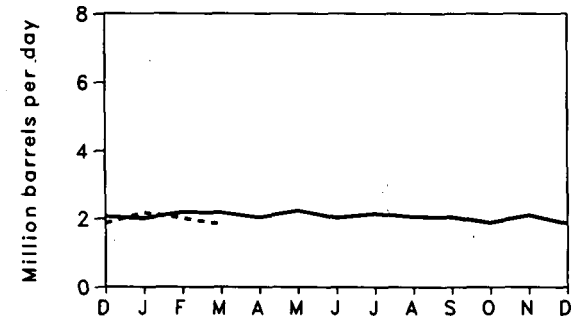
United States



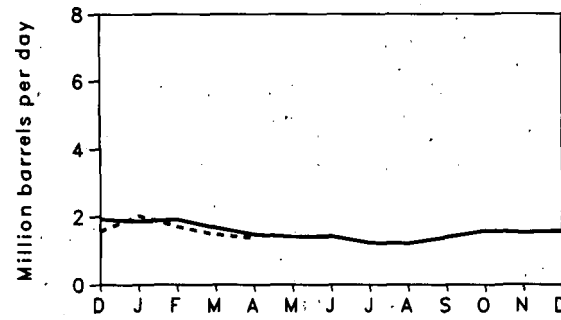
Japan



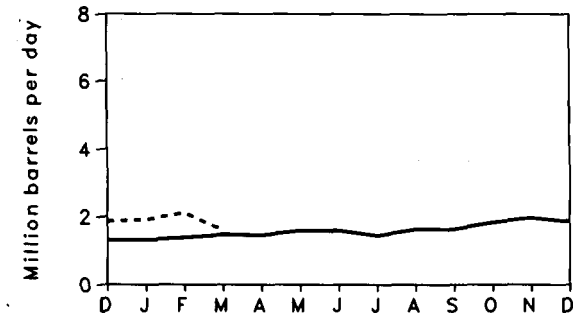
West Germany



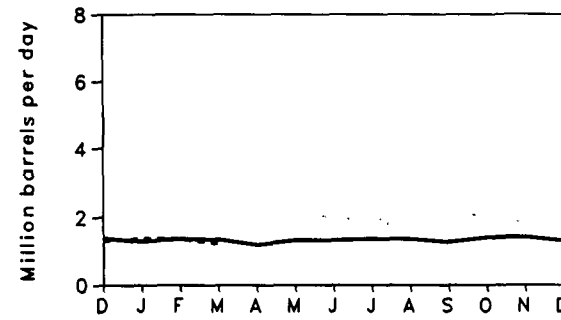
France



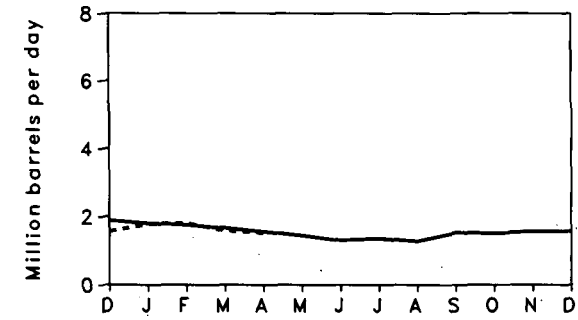
United Kingdom



Canada



Italy



— 1984      - - - - 1985

# International

## Petroleum Consumption for Major Non-Communist Industrialized Countries<sup>1</sup>

		Canada	France <sup>2</sup>	Italy <sup>3</sup>	Japan <sup>4</sup>	United Kingdom	United States	West Germany	Other IEA <sup>5</sup>	Total IEA <sup>6</sup>
Thousand barrels per day										
1973	Average	1,597	2,219	1,525	5,000	1,958	17,308	2,693	4,069	34,150
1974	Average	1,630	2,094	1,521	4,872	1,829	16,653	2,408	4,047	32,960
1975	Average	1,595	1,925	1,468	4,568	1,633	16,322	2,319	3,905	31,810
1976	Average	1,647	2,075	1,503	4,786	1,601	17,461	2,507	4,265	33,770
1977	Average	1,661	1,973	1,476	5,015	1,655	18,431	2,478	4,214	34,930
1978	Average	1,701	2,077	1,551	5,115	1,683	18,847	2,596	4,387	35,880
1979	Average	1,766	2,107	1,607	5,173	1,690	18,513	2,664	4,487	35,900
1980	Average	1,730	1,965	1,602	4,680	1,420	17,056	2,360	4,152	33,000
1981	Average	1,615	1,745	1,705	4,445	1,325	16,058	2,120	4,032	31,300
1982	Average	1,450	1,645	1,614	4,196	1,337	15,296	2,045	3,962	29,900
1983	January	1,260	1,685	1,675	4,410	1,260	14,722	1,875	3,998	29,200
	February	1,430	1,985	1,865	4,950	1,415	14,792	2,060	4,288	30,800
	March	1,305	1,685	1,605	4,625	1,430	15,541	2,180	4,314	31,000
	April	1,190	1,785	1,415	3,850	1,300	14,692	1,940	3,913	28,300
	May	1,320	1,500	1,470	3,460	1,230	14,505	2,010	3,805	27,800
	June	1,360	1,405	1,475	4,040	1,255	15,289	2,060	4,121	29,600
	July	1,265	1,210	1,365	3,745	1,160	15,019	1,785	3,861	28,200
	August	1,440	1,350	1,315	3,990	1,220	15,480	1,920	4,035	29,400
	September	1,380	1,415	1,590	4,040	1,300	15,506	2,040	4,144	30,000
	October	1,360	1,495	1,625	3,900	1,280	14,962	2,090	4,083	29,300
	November	1,460	1,800	1,840	4,290	1,340	15,500	2,055	4,215	30,700
	December	1,400	1,930	1,880	4,960	1,300	16,726	2,050	4,484	32,800
	Average	1,345	1,600	1,590	4,185	1,290	15,231	2,005	4,054	29,700
1984	January	1,300	1,860	1,800	4,800	1,310	R16,801	2,000	R4,489	R32,500
	February	1,370	1,915	1,750	5,450	1,380	R15,437	2,180	R4,433	R32,000
	March	1,350	1,680	1,660	5,020	1,470	R16,050	2,170	R4,380	32,100
	April	1,200	1,475	1,550	4,110	1,450	R15,568	2,030	R4,092	30,000
	May	1,329	1,410	1,435	3,740	1,590	R15,620	2,230	R4,156	R30,100
	June	1,330	1,420	1,295	3,590	1,585	R15,709	2,020	R4,071	29,600
	July	1,370	1,225	1,350	3,950	1,440	R15,498	2,140	R4,152	29,900
	August	1,365	1,210	1,270	4,230	1,630	R16,116	2,050	R4,239	30,900
	September	1,280	1,400	1,525	3,960	1,635	R15,247	2,040	R4,113	R29,800
	October	1,415	1,590	1,500	3,860	1,830	R15,616	1,880	R4,199	30,300
	November	1,420	1,530	1,560	4,375	1,965	R15,627	2,095	R4,358	R31,400
	December	1,320	1,580	1,560	4,995	1,855	R15,375	1,855	R4,340	R31,300
	Average	1,338	1,523	1,520	4,338	1,595	R15,726	2,057	R4,226	30,800
1985	January	R1,390	2,025	1,765	R4,670	1,905	16,142	2,165	R4,463	R32,500
	February	R1,370	R1,710	R1,810	R5,060	2,110	15,975	R2,005	R4,570	R32,900
	March	1,235	R1,480	R1,575	4,130	1,600	15,321	1,840	4,099	29,800
	April	NA	1,365	1,510	NA	NA	15,345	NA	NA	NA
	Average <sup>7</sup>	1,330	1,646	1,663	4,605	1,864	15,692	2,003	4,371	31,528

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

<sup>2</sup>Not a member of the International Energy Agency (IEA).

<sup>3</sup>Principal products only prior to 1981.

<sup>4</sup>Excludes liquefied petroleum gases and condensate.

<sup>5</sup>Other is a calculated total derived from the difference between total IEA consumption and the IEA nations represented above.

<sup>6</sup>The 21 signatory nations of the IEA are listed in Note 1 on the last page of this section.

<sup>7</sup>Average of available data.

R=Revised data. NA=Not available.

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

• Data for 1983 through 1985 are preliminary.

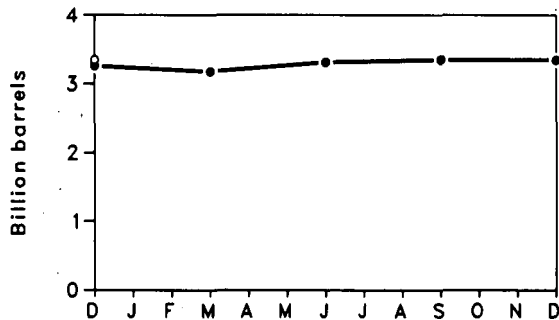
Sources: • See the last page of this section.



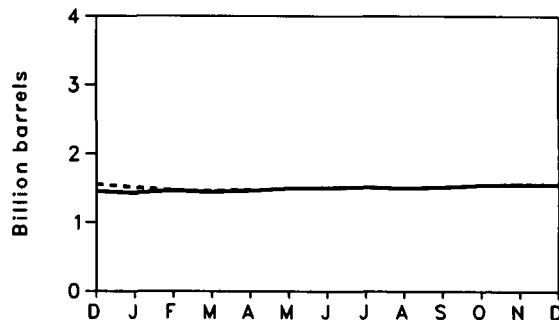
# International

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

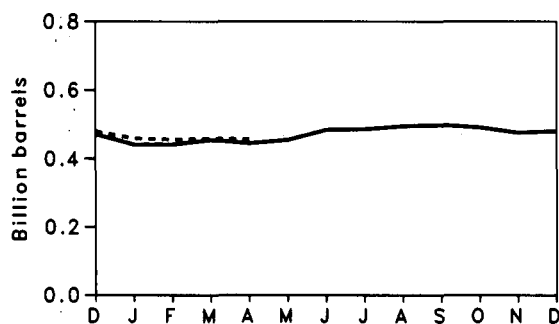
Total OECD



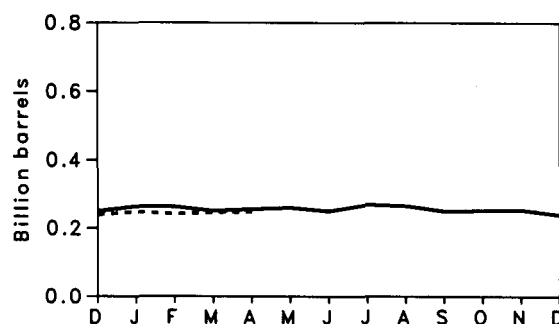
United States



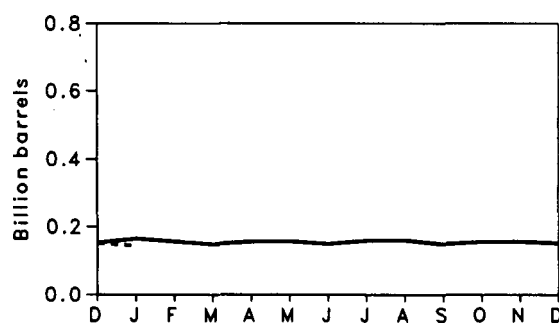
Japan



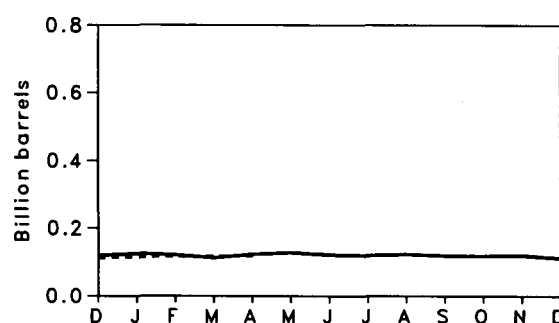
West Germany



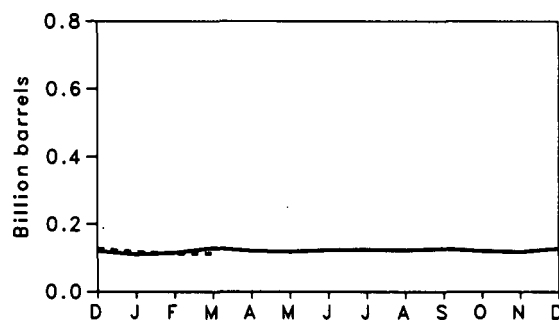
France



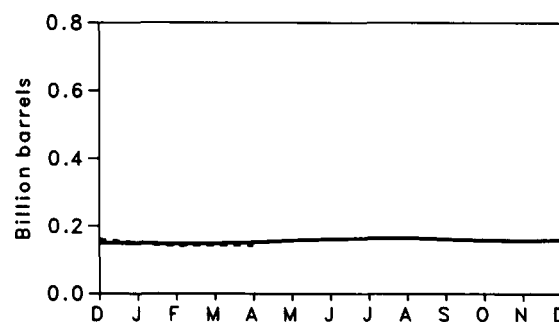
United Kingdom



Canada



Italy



●—● 1984    ○---○ 1985

# International

## Petroleum Stocks for Major Non-Communist Industrialized Countries at End of Period<sup>1</sup>

		Canada	France	Italy	Japan	United Kingdom	United States	West Germany	Other OECD <sup>2</sup>	Total OECD <sup>2</sup>
		Million barrels								
1973	Year	149	203	NA	303	156	1,008	NA	NA	NA
1974	Year	164	240	169	370	161	1,074	215	NA	NA
1975	Year	167	239	143	375	164	1,133	190	NA	NA
1976	Year	156	231	142	394	165	1,112	214	NA	NA
1977	Year	167	239	161	409	148	1,312	225	524	3,185
1978	Year	144	201	154	413	157	1,278	238	512	3,097
1979	Year	150	226	163	460	169	1,341	272	594	3,375
1980	Year	164	243	170	495	168	1,392	319	636	3,587
1981	Year	161	214	167	482	143	1,484	297	583	3,531
1982	Year	136	193	179	468	125	1,430	272	557	3,360
1983	January	136	206	170	473	125	1,452	274	NA	NA
	February	133	187	163	450	121	1,430	274	NA	NA
	March	135	162	155	456	120	1,372	262	539	3,201
	April	123	158	151	422	120	1,374	255	NA	NA
	May	125	164	152	437	123	1,394	274	NA	NA
	June	113	158	159	460	116	1,405	261	531	3,203
	July	110	174	151	436	119	1,426	270	NA	NA
	August	110	183	161	433	121	1,460	274	NA	NA
	September	125	165	160	452	125	1,485	263	549	3,324
	October	111	170	157	441	129	1,508	267	NA	NA
	November	105	162	150	440	124	1,510	267	NA	NA
	December	120	153	149	471	119	1,454	250	542	3,258
1984	January	109	165	149	441	125	R1,429	264	NA	NA
	February	114	157	146	441	121	R1,463	263	NA	NA
	March	128	149	148	454	112	1,444	251	489	3,174
	April	120	156	151	444	123	R1,462	256	NA	NA
	May	117	157	157	454	128	R1,496	260	NA	NA
	June	122	150	161	484	122	R1,503	250	R519	R3,310
	July	123	159	163	486	120	R1,513	269	NA	NA
	August	122	160	165	495	123	R1,498	265	NA	NA
	September	R126	149	161	498	119	R1,513	250	R532	R3,348
	October	120	155	158	491	118	R1,544	252	NA	NA
	November	117	156	157	476	120	1,556	254	NA	NA
	December	R127	R152	R159	R480	R112	R1,556	R240	519	3,345
1985	January	117	145	149	459	115	1,510	248	NA	NA
	February	112	NA	142	456	117	1,467	242	NA	NA
	March	112	NA	144	458	117	1,459	246	NA	NA
	April	NA	NA	143	456	118	1,474	248	NA	NA

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

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

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

R = Revised data. NA = Not available.

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

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

• In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported. Using the new basis, the end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,420 in 1980, and 1,462 in 1982.

Sources: • See the last page of this section.

# International

## Nuclear Electricity Generation by Non-Communist Countries<sup>1</sup>

		Argen- tina	Belgium	Brazil	Canada	Finland	France	India	Italy	Japan	Nether- lands	Paki- stan
Billion gross kilowatthours.												
<b>1973</b>	<b>Total</b>	0	0	0	18.3	0	11.6	1.9	3.1	9.4	1.1	0.5
<b>1974</b>	<b>Total</b>	1.0	0.1	0	15.4	0	14.7	2.5	3.4	18.1	3.3	0.6
<b>1975</b>	<b>Total</b>	2.5	6.8	0	13.2	0	18.3	2.5	3.8	22.2	3.3	0.5
<b>1976</b>	<b>Total</b>	2.6	10.0	0	18.0	0	15.8	3.2	3.8	36.7	3.9	0.5
<b>1977</b>	<b>Total</b>	1.6	11.9	0	26.8	2.7	17.9	2.8	3.4	28.1	3.7	0.3
<b>1978</b>	<b>Total</b>	2.9	12.5	0	32.9	3.3	30.5	2.3	4.4	53.2	4.1	0.2
<b>1979</b>	<b>Total</b>	2.7	11.4	0	38.4	6.7	39.9	3.2	2.6	62.0	3.5	(s)
<b>1980</b>	<b>Total</b>	2.3	12.5	0	40.4	7.0	61.2	2.9	2.2	82.8	4.2	0.1
<b>1981</b>	<b>Total</b>	2.8	12.8	0	43.3	14.5	105.2	3.1	2.7	86.0	3.7	0.2
<b>1982</b>	<b>Total</b>	1.9	15.6	0.1	42.6	16.5	108.9	2.2	6.8	104.5	3.9	0.1
<b>1983</b>	January	0.2	1.9	0	4.3	1.7	13.8	0.2	0.2	8.0	0.4	(s)
	February	0.2	1.4	0	4.5	1.5	10.9	0.1	0.1	6.8	(s)	(s)
	March	0.2	0.7	(s)	4.6	1.6	11.3	0.2	0.1	7.9	(s)	(s)
	April	0.2	1.6	(s)	4.3	1.5	10.5	0.2	0.1	8.4	0.2	(s)
	May	0.2	2.5	0	3.9	1.2	9.6	0.3	0.7	9.2	0.3	(s)
	June	R0.3	2.5	0	4.4	1.0	9.3	0.3	0.7	9.1	0.4	(s)
	July	0.3	2.5	0	4.8	1.3	11.0	0.2	0.7	9.6	0.4	0
	August	R0.3	2.4	0	3.8	1.6	12.1	0.3	0.5	10.5	0.4	(s)
	September	R0.5	2.2	0	4.4	1.5	12.4	0.3	0.6	10.1	0.4	(s)
	October	R0.3	2.2	0	4.7	1.4	13.0	0.3	0.6	R10.3	0.4	(s)
	November	R0.4	2.0	(s)	4.3	1.5	13.4	0.2	0.7	R9.1	0.4	(s)
	December	R0.4	2.1	0.1	5.0	1.7	16.8	0.3	0.7	R10.1	0.4	(s)
	<b>Total</b>	<b>3.4</b>	<b>24.1</b>	<b>0.2</b>	<b>R53.0</b>	<b>17.4</b>	<b>144.2</b>	<b>2.9</b>	<b>5.8</b>	<b>109.1</b>	<b>3.6</b>	<b>0.2</b>
<b>1984</b>	January	R0.7	2.7	(s)	5.0	1.7	18.0	0.3	0.4	10.1	0.3	(s)
	February	R0.4	2.3	0.2	4.6	1.6	17.1	0.4	0.6	9.2	0.4	0
	March	R0.6	1.9	0.1	5.1	1.7	17.8	0.3	0.7	8.8	0.2	0
	April	R0.5	2.4	(s)	4.3	1.6	15.4	0.4	0.3	8.9	0.2	(s)
	May	R0.5	2.0	0.1	3.6	1.2	14.2	0.5	0.3	10.5	0.4	(s)
	June	R0.4	2.6	0.0	3.7	1.3	13.1	0.4	0.3	9.9	0.4	(s)
	July	R0.4	2.4	0.0	4.4	1.4	13.1	0.5	0.3	10.6	0.2	(s)
	August	R0.3	1.9	(s)	4.7	1.4	13.2	0.4	0.8	11.0	0.3	(s)
	September	R0.4	1.9	0.3	3.9	1.5	14.7	0.2	0.8	11.4	0.4	(s)
	October	0.1	2.5	0.5	4.5	1.8	16.0	0.4	0.8	11.6	0.4	(s)
	November	0	2.6	0.4	4.7	1.7	17.8	0.3	0.8	11.8	0.4	(s)
	December	0.1	2.6	0.4	5.1	1.7	20.9	0.2	0.8	12.5	0.4	(s)
	<b>Total</b>	<b>4.5</b>	<b>27.7</b>	<b>2.0</b>	<b>54.0</b>	<b>18.5</b>	<b>191.2</b>	<b>4.1</b>	<b>6.9</b>	<b>126.5</b>	<b>3.7</b>	<b>0.3</b>
<b>1985</b>	January	0.2	2.5	0.4	5.7	1.7	21.9	0.2	0.8	11.9	0.4	(s)
	February	0.4	1.7	0.3	5.0	1.6	19.2	0.2	0.7	10.1	0.3	(s)
	March	0.5	2.0	0.3	5.9	1.8	20.6	0.4	0.8	11.3	0.2	0.0
	April	0.4	2.2	0.1	4.3	1.6	17.7	0.6	0.7	10.7	(s)	0.0
	<b>Year to Date</b>	<b>1.5</b>	<b>8.4</b>	<b>1.1</b>	<b>20.9</b>	<b>6.7</b>	<b>79.4</b>	<b>1.5</b>	<b>3.0</b>	<b>44.0</b>	<b>0.9</b>	<b>0.1</b>

<sup>1</sup>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.

<sup>2</sup>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 kilowatthours.

Footnotes continued on following page.

# International

## Nuclear Electricity Generation by Non-Communist Countries<sup>1</sup> (continued)

		South Africa	South Korea	Spain	Sweden	Switzer- land	Taiwan	United Kingdom <sup>2</sup>	West Germany	Non- Communist World Excluding U.S.	United States	Total Non- Communist World
Billion gross kilowatthours												
<b>1973</b>	<b>Total</b>	0	0	6.5	2.1	6.2	0	28.0	11.9	100.7	88.0	188.7
<b>1974</b>	<b>Total</b>	0	0	7.2	1.6	7.0	0	34.0	12.0	121.1	104.5	225.6
<b>1975</b>	<b>Total</b>	0	0	7.5	12.0	7.7	0	30.5	21.7	152.7	181.7	334.4
<b>1976</b>	<b>Total</b>	0	0	7.6	16.0	7.9	0	36.8	24.5	187.3	201.8	389.1
<b>1977</b>	<b>Total</b>	0	0.1	6.5	19.9	8.1	0.1	38.1	35.8	207.8	263.3	471.0
<b>1978</b>	<b>Total</b>	0	2.3	7.6	23.8	8.3	2.7	36.7	35.9	263.6	292.7	556.3
<b>1979</b>	<b>Total</b>	0	3.2	6.7	21.0	11.8	6.3	38.5	42.2	300.1	270.6	570.7
<b>1980</b>	<b>Total</b>	0	3.5	5.2	26.7	14.3	8.2	37.2	43.7	354.4	265.4	619.8
<b>1981</b>	<b>Total</b>	0	2.9	9.4	37.7	15.2	10.7	38.9	53.4	442.4	288.5	730.9
<b>1982</b>	<b>Total</b>	0	3.8	8.8	38.8	15.0	13.1	44.1	63.4	489.9	298.6	788.5
<b>1983</b>	January	0	0.5	1.0	4.2	1.5	1.5	4.3	6.5	50.0	27.4	77.4
	February	0	0.4	0.9	3.7	1.4	0.8	4.3	5.6	42.7	23.8	R66.6
	March	0	0.6	0.9	4.1	1.5	1.8	4.9	6.0	46.7	25.0	71.7
	April	0	0.4	0.8	3.3	1.5	1.7	4.3	4.0	43.1	23.4	66.5
	May	0	0.2	0.4	2.4	1.2	2.0	3.4	2.9	40.6	23.9	64.5
	June	0	0.7	0.6	2.4	0.5	2.0	3.9	4.2	42.4	25.7	R67.8
	July	0	0.7	0.6	1.6	1.2	1.6	R3.4	5.1	44.9	27.3	72.2
	August	0	1.1	1.0	2.7	1.0	1.4	3.7	4.6	47.3	27.9	R75.4
	September	0	1.1	1.0	3.0	1.4	1.2	4.4	6.0	50.2	26.4	R76.7
	October	0	0.8	1.1	3.6	1.5	1.6	3.7	7.6	53.0	27.6	R80.8
	November	0	1.2	1.1	4.5	1.4	1.6	3.9	7.1	52.8	26.6	79.3
	December	0	1.3	1.4	5.0	1.5	1.7	5.5	6.2	59.8	28.6	R88.6
	<b>Total</b>	0	9.0	10.7	R40.4	15.5	18.9	50.0	65.8	R573.9	313.6	R887.5
<b>1984</b>	January	0	1.3	1.5	5.3	1.5	1.7	4.4	6.9	R61.8	30.8	R92.6
	February	0	1.2	1.5	5.0	1.4	1.8	4.6	7.4	R59.7	29.4	R89.1
	March	0	1.0	1.4	5.4	1.5	2.0	4.8	7.1	R60.6	28.6	R89.2
	April	0.1	0.9	1.3	4.5	1.5	1.8	4.2	6.4	R54.5	24.7	R79.2
	May	0.1	0.8	1.9	3.3	1.3	1.4	4.3	7.2	R53.6	27.3	R80.9
	June	0.3	0.7	2.2	2.8	0.6	1.8	4.7	7.1	R52.3	26.4	R78.7
	July	0.5	0.7	2.5	2.4	1.3	2.4	3.7	6.2	R53.2	29.3	R82.6
	August	0.7	0.9	2.3	3.5	1.0	2.4	3.6	6.3	R54.7	31.8	R86.5
	September	0.7	0.9	2.6	4.2	1.4	2.6	4.9	8.2	R61.0	30.3	R91.2
	October	0.7	1.3	1.8	5.0	1.5	2.0	4.1	8.6	63.6	26.8	90.4
	November	0.4	1.3	1.9	4.5	1.5	1.8	4.4	9.8	66.1	25.5	91.5
	December	0.5	0.9	2.2	5.4	1.9	2.3	6.3	10.4	74.7	31.3	105.9
	<b>Total</b>	4.0	11.8	23.0	51.3	16.3	24.6	54.1	92.4	716.9	342.3	1,059.2
<b>1985</b>	January	0.3	1.0	2.2	5.4	2.2	2.4	5.7	R10.8	R75.8	37.0	R112.8
	February	0.0	1.1	1.9	5.0	2.0	2.1	5.6	R10.1	R67.6	31.3	R98.9
	March	0.0	1.4	2.8	5.6	2.2	2.5	6.6	R11.7	R76.6	31.0	R107.6
	April	0.0	1.2	2.4	4.5	2.2	2.7	5.1	10.6	66.9	26.3	93.2
	<b>Year to Date</b>	0.3	4.7	9.3	20.5	8.6	9.6	23.0	43.2	286.8	125.7	412.5

Footnotes continued.

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

• The sum of the months may not equal the annual total because the annual total may reflect revisions which are not included in the monthly data. Also, the sum of the months may not equal the annual total due to independent rounding.

Sources: • See the last page of this section.

## Notes and Sources for the International Section

### Notes

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

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

### Sources

**Crude Oil Production:** • 1973-1983 annual data (except the United States): Energy Information Administration (EIA), *1983 International Energy Annual*.

• 1973-1985 U.S. annual and monthly data: EIA, *Petroleum Supply Monthly*.

• 1983-1985 monthly data (except U.S. and World): Central Intelligence Agency, "International Energy Statistical Review," and other industry sources.

• 1983-1985 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).

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

• International Energy Agency totals for latest months are EIA estimates.

**Petroleum Stocks:** • U.S. data: EIA, *Petroleum Supply Monthly*.

• Other OECD data: OECD, *Quarterly Oil Statistics*; Comite Professionnel du Petrole, *Bulletin Mensuel*.

• Total OECD data: Sum of data for all OECD member countries using above sources.

**Nuclear Electricity Generation and Capacities:**

• *Nucleonics Week*.

## Conversion Factors

### Units of Measure

#### Weight

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

#### Conversion Factors for Crude Oil (Average Gravity)

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

#### Conversion Factors for Uranium

1 short ton (U <sub>3</sub> O <sub>8</sub> )	contains	0.769 metric tons of uranium
1 short ton (UF <sub>6</sub> )	contains	0.613 metric tons of uranium
1 metric ton (UF <sub>6</sub> )	contains	0.676 metric tons of uranium

### Price Indexes, 1972=100.0

	Gross National Product Implicit Price Deflator	Consumer Price Index, All Urban Consumers, All Items
1972	100.00	100.0
1973	105.75	106.2
1974	115.08	117.9
1975	125.79	128.7
1976	132.34	136.1
1977	140.05	144.9
1978	150.42	155.9
1979	163.42	173.5
1980	178.42	197.0
1981	195.60	217.4
1982	207.38	230.7
1983	215.34	238.1
1984†	223.43	248.3

†=Preliminary data.

Sources: • Gross National Product Implicit Price Deflator—U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*.

• Consumer Price Index, All Urban Consumers, All Items—1967=100.0 from U.S. Department of Labor, Bureau of Labor Statistics. Rebased to 1972=100.0 by Energy Information Administration.

### Approximate Heat Content of Refined Petroleum Products

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

<sup>1</sup> 60 percent butane and 40 percent propane.

<sup>2</sup> 70 percent ethane and 20 percent propane.

## Conversion Factors (continued)

### Approximate Heat Content of Fuels, 1973-1978

	Units	1973	1974	1975	1976	1977	1978
<b>Coal</b>							
Production	Million Btu/short ton	23.389	23.081	22.907	22.862	22.602	22.252
Consumption	Million Btu/short ton	23.071	22.685	22.510	22.499	22.268	22.022
Non-electric utility users	Million Btu/short ton	24.919	24.823	24.777	24.890	24.721	24.512
Electric utilities	Million Btu/short ton	22.246	21.781	21.642	21.679	21.508	21.275
Imports	Million Btu/short ton	25.00	25.00	25.00	25.00	25.00	25.00
Exports	Million Btu/short ton	26.60	26.70	26.56	26.60	26.55	26.48
<b>Anthracite</b>							
Production	Million Btu/short ton	23.17	22.56	22.39	22.77	23.18	23.52
Consumption	Million Btu/short ton	22.71	21.95	21.74	22.15	22.69	22.97
Non-electric utility users	Million Btu/short ton	24.34	23.75	23.65	23.84	24.99	25.17
Electric utilities	Million Btu/short ton	17.92	17.20	17.06	17.53	17.24	17.10
Imports and exports	Million Btu/short ton	25.40	25.40	25.40	25.40	25.40	25.40
<b>Bituminous coal and lignite</b>							
Production	Million Btu/short ton	23.391	23.087	22.911	22.863	22.597	22.242
Consumption	Million Btu/short ton	23.073	22.694	22.522	22.509	22.266	22.014
Residential and commercial	Million Btu/short ton	22.887	22.523	22.258	22.819	22.594	22.078
Coke plants	Million Btu/short ton	26.800	26.800	26.800	26.800	26.800	26.800
Other industrial & transportation	Million Btu/short ton	22.585	22.420	22.439	22.528	22.290	22.175
Electric utilities	Million Btu/short ton	22.262	21.799	21.659	21.692	21.521	21.284
Imports	Million Btu/short ton	25.000	25.000	25.000	25.000	25.000	25.000
Exports	Million Btu/short ton	26.612	26.716	26.573	26.613	26.561	26.501
Coal coke, imports and exports	Million Btu/short ton	24.80	24.80	24.80	24.80	24.80	24.80
<b>Crude oil<sup>1</sup></b>							
Production	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800
Imports	Million Btu/barrel	5.817	5.827	5.821	5.808	5.810	5.802
Exports	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800
<b>Crude oil and petroleum products</b>							
Imports	Million Btu/barrel	5.897	5.884	5.858	5.856	5.834	5.839
Exports	Million Btu/barrel	5.752	5.774	5.748	5.745	5.797	5.808
<b>Petroleum products<sup>2</sup></b>							
Consumption	Million Btu/barrel	5.515	5.504	5.494	5.504	5.518	5.519
Residential and commercial	Million Btu/barrel	5.387	5.377	5.358	5.383	5.389	5.382
Industrial	Million Btu/barrel	5.565	5.537	5.527	5.535	5.552	5.546
Transportation	Million Btu/barrel	5.397	5.394	5.392	5.396	5.402	5.407
Electric utilities	Million Btu/barrel	6.245	6.238	6.250	6.251	6.249	6.251
Imports	Million Btu/barrel	5.983	5.959	5.935	5.980	5.908	5.955
Exports	Million Btu/barrel	5.752	5.773	5.747	5.743	5.796	5.814
LPG consumption average <sup>3</sup>	Million Btu/barrel	3.746	3.730	3.715	3.711	3.677	3.669
<b>Natural gas plant liquids</b>							
Production	Million Btu/barrel	4.049	4.011	3.984	3.964	3.941	3.925
<b>Natural gas</b>							
Production, dry	Btu/cubic foot	1,021	1,024	1,021	1,020	1,021	1,019
Production, wet	Btu/cubic foot	1,093	1,097	1,095	1,093	1,093	1,088
Consumption	Btu/cubic foot	1,021	1,024	1,021	1,020	1,021	1,019
Non-electric utility users	Btu/cubic foot	1,020	1,024	1,020	1,019	1,019	1,016
Electric utilities	Btu/cubic foot	1,024	1,022	1,026	1,023	1,029	1,034
Imports	Btu/cubic foot	1,026	1,027	1,026	1,025	1,026	1,030
Exports	Btu/cubic foot	1,023	1,016	1,014	1,013	1,013	1,013

### Approximate Heat Rates for Electricity

Fossil fuel steam-electric power plant generation <sup>4</sup> ...	Btu/kilowatthour	10,389	10,442	10,406	10,373	10,435	10,361
Nuclear power plant generation	Btu/kilowatthour	10,903	11,161	11,013	11,047	10,769	10,941
Geothermal energy power plant generation	Btu/kilowatthour	21,674	21,674	21,611	21,611	21,611	21,611
Electricity consumption	Btu/kilowatthour	3,412	3,412	3,412	3,412	3,412	3,412

<sup>1</sup> Includes lease condensate.

<sup>2</sup> Weighted averages of the products included in each category are calculated using heat content values shown on the first page of this section.

<sup>3</sup> LPG consumption average is the annual weighted average of the LPG product supplied components: ethane, propane, butane, butane-propane mixture, ethane-propane mixture, and isobutane. It is obtained by using heat content values shown on the first page of this section.

<sup>4</sup> This is used as the thermal conversion factor for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

Sources: • See "Thermal Conversion Factor Source Documentation" on the following pages.

## Conversion Factors (continued)

### Approximate Heat Content of Fuels, 1979-1985

	Units	1979	1980	1981	1982	1983	1984-1985†
<b>Coal</b>							
Production .....	Million Btu/short ton	22.466	22.418	22.312	22.242	22.059	22.127
Consumption .....	Million Btu/short ton	22.103	21.946	21.712	21.669	21.574	21.694
Non-electric utility users .....	Million Btu/short ton	24.640	24.751	24.506	24.211	24.110	24.230
Electric utilities .....	Million Btu/short ton	21.364	21.295	21.085	21.194	21.133	21.213
Imports .....	Million Btu/short ton	25.00	25.00	25.00	25.00	25.00	25.00
Exports .....	Million Btu/short ton	26.55	26.38	26.16	26.22	26.29	26.44
<b>Anthracite</b>							
Production .....	Million Btu/short ton	23.59	23.35	23.69	23.69	23.24	23.24
Consumption .....	Million Btu/short ton	22.70	22.16	22.10	23.00	22.41	22.54
Non-electric utility users .....	Million Btu/short ton	25.20	23.74	25.12	25.37	25.59	25.41
Electric utilities .....	Million Btu/short ton	17.45	17.65	18.17	18.16	16.52	17.28
Imports and exports .....	Million Btu/short ton	25.40	25.40	25.40	25.40	25.40	25.40
<b>Bituminous coal and lignite</b>							
Production .....	Million Btu/short ton	22.459	22.411	22.302	22.234	22.053	22.122
Consumption .....	Million Btu/short ton	22.100	21.950	21.712	21.671	21.581	21.698
Residential and commercial .....	Million Btu/short ton	21.884	22.488	22.191	22.373	22.934	22.902
Coke plants .....	Million Btu/short ton	26.800	26.800	26.800	26.800	26.800	26.800
Other industrial & transportation .....	Million Btu/short ton	22.436	22.690	22.572	22.694	22.679	22.763
Electric utilities .....	Million Btu/short ton	21.372	21.301	21.091	21.200	21.141	21.219
Imports .....	Million Btu/short ton	25.000	25.000	25.000	25.000	25.000	25.000
Exports .....	Million Btu/short ton	26.570	26.404	26.176	26.231	26.300	26.445
Coal coke, imports and exports .....	Million Btu/short ton	24.80	24.80	24.80	24.80	24.80	24.80
<b>Crude oil<sup>1</sup></b>							
Production .....	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800
Imports .....	Million Btu/barrel	5.810	5.812	5.818	5.826	5.825	5.823
Exports .....	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800
<b>Crude oil and petroleum products</b>							
Imports .....	Million Btu/barrel	5.810	5.796	5.775	5.775	5.774	5.763
Exports .....	Million Btu/barrel	5.832	5.820	5.821	5.820	5.800	5.853
<b>Petroleum products<sup>2</sup></b>							
Consumption .....	Million Btu/barrel	5.494	5.479	5.448	5.415	5.406	R5.409
Residential and commercial .....	Million Btu/barrel	5.471	5.468	5.409	5.392	5.363	R5.267
Industrial .....	Million Btu/barrel	5.416	5.376	5.310	5.262	5.279	R5.305
Transportation .....	Million Btu/barrel	5.430	5.440	5.434	5.423	5.416	R5.424
Electric utilities .....	Million Btu/barrel	6.258	6.254	6.258	6.258	6.255	6.251
Imports .....	Million Btu/barrel	5.811	5.748	5.659	5.664	5.677	5.659
Exports .....	Million Btu/barrel	5.864	5.841	5.837	5.829	5.800	5.871
LPG consumption average <sup>3</sup> .....	Million Btu/barrel	3.680	3.674	3.643	3.615	3.614	3.599
<b>Natural gas plant liquids</b>							
Production .....	Million Btu/barrel	3.955	3.914	3.930	3.872	3.839	3.960
<b>Natural gas</b>							
Production, dry .....	Btu/cubic foot	1,021	1,026	1,027	1,028	1,031	1,031
Production, wet .....	Btu/cubic foot	1,092	1,098	1,103	1,107	1,115	1,115
Consumption .....	Btu/cubic foot	1,021	1,026	1,027	1,028	1,031	1,031
Non-electric utility users .....	Btu/cubic foot	1,018	1,024	1,025	1,026	1,031	1,031
Electric utilities .....	Btu/cubic foot	1,035	1,035	1,035	1,036	1,030	1,030
Imports .....	Btu/cubic foot	1,037	1,022	1,014	1,018	1,024	1,024
Exports .....	Btu/cubic foot	1,013	1,013	1,011	1,011	1,010	1,010

### Approximate Heat Rates for Electricity

Fossil fuel steam-electric power plant generation <sup>4</sup> ...	Btu/kilowatthour	10,353	10,388	10,453	10,423	10,445†	10,445
Nuclear power plant generation .....	Btu/kilowatthour	10,879	10,908	11,030	11,073	10,905†	10,905
Geothermal energy power plant generation .....	Btu/kilowatthour	21,545	21,639	21,639	21,629†	21,290†	21,303
Electricity consumption .....	Btu/kilowatthour	3,412	3,412	3,412	3,412	3,412	3,412

<sup>1</sup> Includes lease condensate.

<sup>2</sup> Weighted averages of the products included in each category are calculated using heat content values shown on the first page of this section.

<sup>3</sup> LPG consumption average is the annual weighted average of the LPG product supplied components: ethane, propane, butane, butane-propane mixture, ethane-propane mixture, and isobutane. It is obtained by using heat content values shown on the first page of this section.

<sup>4</sup> This is used as the thermal conversion factor for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

† = Preliminary data. R = Revised data.

Sources: • See "Thermal Conversion Factor Source Documentation" on the following pages.



# Thermal Conversion Factor Source Documentation

## Approximate Heat Content of Refined Petroleum Products

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Thermal Conversion Factor Source Documentation (continued)

**Petroleum Coke.** • 1973 forward: EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum *Bureau of Mines Standard Average Heating Value of Various Fuels, adopted January 3, 1950*. The Bureau of Mines calculated this factor by dividing the 30,120,000 Btu per short ton as given in the referenced Bureau of Mines internal memorandum by 5.0 barrels per short ton as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

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

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

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

**Road Oil.** • 1973 forward: EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel which was assumed to be equal to that of

asphalt (see "Asphalt") and was first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970*.

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

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

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

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

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

## Approximate Heat Content of Fuels

### Coal and Coal Coke

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

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

**Anthracite, Consumption by Non-Electric Utility Users.** • 1973 forward: Calculated annually by EIA by subtracting the total heat content of anthracite

received at electric utilities from the total heat content of all anthracite consumed and dividing the resulting amount by the quantity of anthracite consumed by non-electric utility users.

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

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

**Bituminous Coal and Lignite, Consumption.** • 1973 forward: Calculated annually by EIA by dividing the sum of the heat content of bituminous coal

## Thermal Conversion Factor Source Documentation (continued)

and lignite consumed by electric utilities, coal coke plants, other industrial plants, the residential and commercial sector, and the transportation sector by the sum of their respective tonnages.

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

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

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

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

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

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

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

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

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

**Coal, Consumption by Non-Electric Utility Users.** • 1973 forward: Calculated by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite consumed by non-electric utility users by the sum of their respective tonnages.

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

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

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

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

## Thermal Conversion Factor Source Documentation (continued)

### Natural Gas

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

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

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

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

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

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

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

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

### Petroleum

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

**Crude Oil, Imports.** • 1973 forward: Calculated annually by EIA by weighting the thermal conversion factor of each type of crude oil imported by the quantity imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products*, 1933.

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

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

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

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

**Petroleum Products, Consumption by Electric Utilities.** • 1973-1983: Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed at electric utilities, weighted by the quantity of each petroleum product

## Thermal Conversion Factor Source Documentation (continued)

consumed at electric utilities. The quantity of petroleum consumed is estimated in the State Energy Data System as documented in the *State Energy Data Report*. • 1984 forward: Estimated by EIA.

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

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

mented in the *State Energy Data Report*. • 1984 forward: Estimated by EIA.

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

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

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

## Approximate Heat Rates for Electricity

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

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

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

means for producing electricity. The heat content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatthour. • 1973 forward: Assumed by EIA to be the fossil fuel steam-electric power plant factor.

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

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

**Wind Energy (Consumed by Electric Utilities).** • 1983 forward: Assumed by EIA to be the fossil fuel steam-electric power plant factor.

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

## Glossary

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

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

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

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

**Butane.** A normally gaseous, colorless, paraffinic hydrocarbon (C<sub>4</sub>H<sub>10</sub>) extracted from natural gas and refinery gas streams. Included are isobutane, a branch-chain configuration of (CH<sub>3</sub>)<sub>2</sub>CH with a boiling point of 10.9 °F and normal butane, a straight-chain configuration of C<sub>4</sub>H<sub>10</sub> with a boiling point of 31.1 °F. Butane is used primarily for blending into motor gasoline, for residential and commercial heating, and for industrial uses, especially the manufacture of chemicals and synthetic rubber.

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

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

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

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

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

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

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

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

## Glossary (continued)

multiplied by the corresponding population weight for each region and these products are then summed to arrive at the national population-weighted degree-day figure.

**Distillate Fuel Oil.** Light fuel oils distilled during the refining process. Included are products known as No. 1, No. 2, and No. 4 fuel oils; and No. 1, No. 2, and No. 4 diesel fuels that conform to either ASTM Specification D396 or D975. These products are used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation.

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

**Ethane.** A normally gaseous, colorless, paraffinic, straight-chain hydrocarbon ( $C_2H_6$ ) with a boiling point of  $-127.48$  °F extracted from natural gas and refinery gas streams. Ethane is used primarily as petrochemical feedstock for production of chemicals and plastic materials.

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

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

**Isobutane.** See "Butane."

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

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

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

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

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

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

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

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

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

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

**Natural Gas.** A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the

## Glossary (continued)

gaseous phase or in solution with crude oil in natural reservoirs.

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

**Normal Butane.** See "Butane."

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

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

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

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

**Petroleum Stocks, Primary.** Stocks of crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can

receive petroleum products by tanker, barge, or pipeline. Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve, is included. Excluded are stocks of foreign origin that are held in bonded warehouse storage.

**Propane.** A normally gaseous, colorless, paraffinic, straight-chain hydrocarbon (C<sub>3</sub>H<sub>8</sub>) with a boiling point of -43.67 °F. It is extracted from natural gas and refinery gas streams. Propane is used primarily for residential and commercial heating and cooling, and also as a fuel for transportation and industrial uses, including petrochemical feedstocks.

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

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

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

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

**Startup Test Phase of Nuclear Power Plants.** A nuclear power plant 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 power plant in the rate base calculation.

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



## Glossary (continued)

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

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

**Unaccounted for Crude Oil.** Represents the arithmetic difference between the indicated demand for

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

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

**Order Form**

**State Energy Data Report, Consumption Estimates,  
1960-1983**

Published: May 1985  
Energy Information Administration  
DOE/EIA-0214(83)  
Price per copy: \$22

State Energy Data Report Supplement, Consumption Estimates,  
1960-1983, DOE/EIA-0214(83)S, is available for \$3.75 per copy.

Name: \_\_\_\_\_  
Business Affiliation: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City, State, Zip Code: \_\_\_\_\_  
Phone Number (area code first): \_\_\_\_\_

\* \* \* \* Please include payment with this order form. \* \* \* \*

Number of copies of DOE/EIA-0214(83) \_\_\_\_\_ × \$22.00 = \$\_\_\_\_\_  
Number of copies of DOE/EIA-0214(83)S \_\_\_\_\_ × \$ 3.75 = \$\_\_\_\_\_  
Total due = \$\_\_\_\_\_

- Check payable to Superintendent of Documents.
- Money order payable to Superintendent of Documents.
- Charge to my Deposit Account No. \_\_\_\_\_

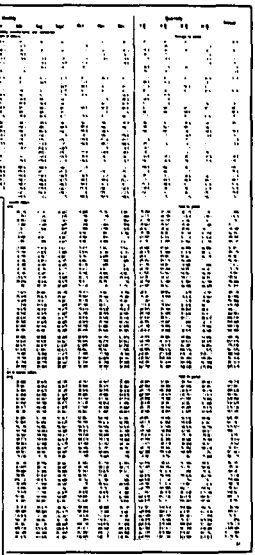
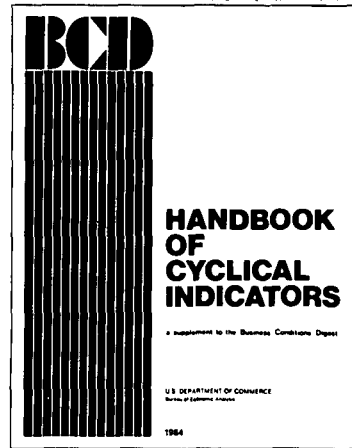
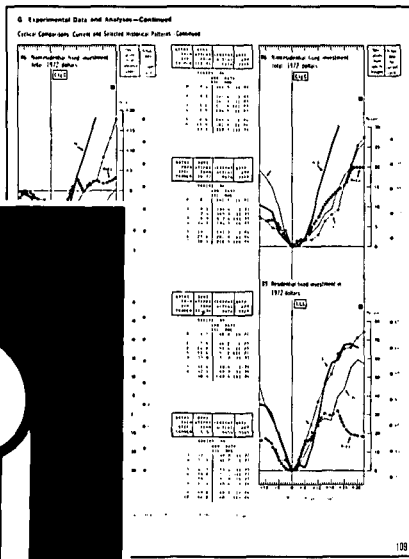
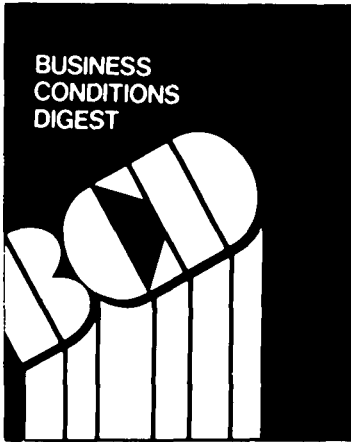
Order No. \_\_\_\_\_

- Charge to  VISA or  Mastercard  
No. \_\_\_\_\_  
Expiration Date (Month/Year) \_\_\_\_\_

**Mail order form to:** National Energy Information Center, EI-20  
Energy Information Administration  
Room 1F-048, Forrestal Building  
Washington, D.C. 20585

*Please allow 2 weeks for delivery.*

**Order Form**



**BUSINESS CONDITIONS DIGEST (BCD)**

... a monthly report that helps you analyze the current economy and future trends.

BCD has "a plethora of charts that ... provide more information and perspective per minute of reading time than anything else you can find," according to Edgar R. Fiedler, former president of the National Association of Business Economists. (*Across the Board*, February 1984.)

BCD contains:

- **Charts** providing a 25-year perspective for about 300 economic time series that cover all major aspects of the economy. Expansions and contractions in the U.S. economy are clearly marked so that the leading, coincident, and lagging characteristics of the series are easy to observe.
- **Tables** listing current data for all 300 series.
- **Appendixes** providing historical data, cyclical turning points, cyclical comparisons, and seasonal adjustment factors.

**HANDBOOK OF CYCLICAL INDICATORS**

... a statistical and technical supplement that helps you make maximum use of the monthly *Business Conditions Digest*.

The **HANDBOOK** contains:

- **Descriptions** of all **BCD** series, providing definitions, methods of compilation, coverage, and sources.
- **Historical data** for 1947-82 for all **BCD** series.
- **Composite index methodology** explaining the construction of the indexes in step-by-step detail.
- **Reference materials** including—
  - Scores for cyclical indicators
  - Average leads or lags for cyclical indicators
  - Measures of variability
  - Business cycle turning dates
  - Bibliography
  - Addresses of data sources.

**Order Form**

Mail To: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402

Enclosed is \$ \_\_\_\_\_  check,  money order, or charge to my Deposit Account No. \_\_\_\_\_

**MasterCard and VISA accepted.**



Order No. \_\_\_\_\_

- Business Conditions Digest** ... Annual subscription: \$44.00 domestic, \$55.00 foreign. Single copy: \$4.00 domestic, \$5.00 foreign.
- Handbook of Cyclical Indicators** ... \$5.50

Company or Personal Name \_\_\_\_\_

Additional address/attention line \_\_\_\_\_

Street address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

(or Country) \_\_\_\_\_

**Credit Card Orders Only**  
 Total charges \$ \_\_\_\_\_  
 Fill in the boxes below.

Credit Card No. \_\_\_\_\_

Expiration Date Month/Year \_\_\_\_\_

Customer's Telephone No.'s \_\_\_\_\_

Area Code Home Area Code Office

Charge orders may be telephoned to the GPO order desk at (202)783-3238 from 8:00 a.m. to 4:00 p.m. eastern time, Monday-Friday (except holidays).

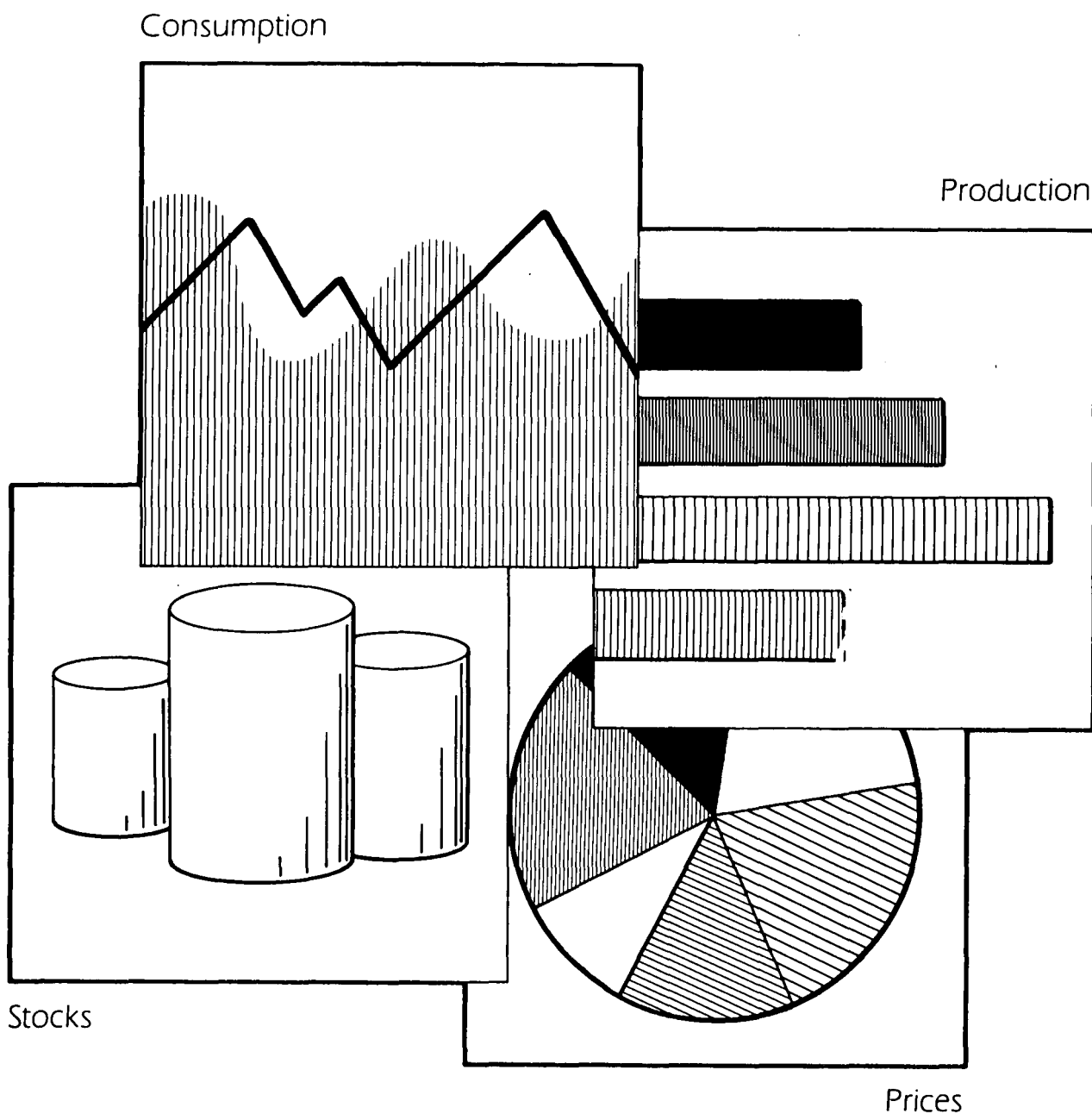
**For Office Use Only**

Quantity	Charges
_____	Publications _____
_____	Subscriptions _____
_____	Special Shipping Charges _____
_____	International Handling _____
_____	Special Charges _____
_____	OPNR _____
_____	UPNS _____
_____	Balance Due _____
_____	Discount _____
_____	Refund _____

PLEASE PRINT OR TYPE

# Looking for Energy Information?

The Energy Information Administration has Data and Projections on:



**Contact:**

Energy Information Administration  
National Energy Information Center  
Forrestal Building, 1F-048  
1000 Independence Avenue, S.W.  
Washington, D.C. 20585  
(202) 252-8800

**Energy Information Administration  
Forrestal Building  
Washington, D.C. 20585**

FIRST-CLASS MAIL  
POSTAGE & FEES PAID  
U.S. DEPT. OF ENERGY  
PERMIT NO. G 20

**OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300**

**FIRST CLASS MAIL**

