Fichman

DOE/EIA-0035(81/06)

Monthly Energy Review

June 1981

U.S. Department of Energy
Energy Information Administration

The *Monthly Energy Review* is prepared by the Office of Energy Data Operations, Energy Information Administration, U.S. Department of Energy, under the direct supervision of Sam O. Wood, Jr.

Editor: Nancy Masterson
Associate Editors: Diane D. Perritt, Maria F. McGuinness, Barbara Beeker
Editorial Review: Office of Energy Information Services Staff

Executive Summary: Nancy Masterson, Roberta Searles, Dianne R. Dunn
Consumption: Nancy Masterson, Roberta Searles, Dianne R. Dunn
Petroleum: Henry Clarius, Leonard L. Fanelli
Natural Gas: Gordon W. Koelling
Resource Development: Daniel C. Adkins
Coal: Leonard Westerstrom
Electric Utilities: Vicki Moorhead, Tom F. Woods
Nuclear: Hal Steinberg
Price: Tom F. Woods, Annie P. Whatley, Charles Riner, Dean Fennell, Gordon W. Koelling, Kenneth M. McClevey
International: Wayne Dameron, Hal Steinberg

The cooperation of other government agencies and private establishments which provide data appearing in this publication is gratefully acknowledged.

This periodical is available on a subscription basis. Use the order form in the back of this issue and send to:

U.S. Government Printing Office
Superintendent of Documents
Washington, D.C. 20402

For addresses within the United States the cost is $23.00 per year (12 issues), or $33.00 1st class mail. For addresses outside the United States, the cost is $28.75 per year, or $41.25 if sent via 1st class carrier. Single copies are available at $2.50 each in the United States, and $3.15 each to foreign subscribers.

Correspondence regarding editorial matters should be addressed to:

Editor, Monthly Energy Review
Energy Information Administration Clearinghouse
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585

Feature articles appearing in previous issues:

Energy Consumption — March 1975
Nuclear Power — April 1975
The Price of Crude Oil — June 1975
U.S. Coal Resources and Reserves — July 1975
Propane, A National Energy Resource — September 1975
Short-Term Energy Supply and Demand Forecasting at FEA — October 1975
Curtailments of Natural Gas Service — January 1976
Home Heating Conservation Alternatives and the Solar Collector Industry — March 1976
Trends in United States Petroleum Imports — September 1976
Crude Oil Entitlements Program — January 1977
Motor Gasoline Supply and Demand — July 1977
Short-Term Petroleum Supply and Demand — May 1978
The Energy Requirements of U.S. Agriculture — July 1979
Three Mile Island — Possible Regulatory Responses and Their Impacts on the Nation's Short-Term Electric Utility Fuel Outlook — October 1979
Reduction in Natural Gas Requirements Due to Fuel Switching—December 1979
The Solar Collector Industry and Solar Energy—February 1980
Trends in the Installation of Energy Using Equipment in New Residential Buildings—March 1980
The Energy Information Administration's Oil and Gas Reserves Program— The First Year's Report — June 1980
Energy From Urban Waste — August 1980
Natural Gas Liquids: Revisions to 1979 Data — October 1980
EIA Weekly Petroleum Data: Data Collection and Methods of Estimation — November 1980
The Department of Energy Disclosure Policy for Individually Identifiable Information Maintained by the Energy Information Administration— December 1980
Changes in 1981 Petroleum Data Series—May 1981

Released for printing: June 22, 1981

Contents

Part 1 — Executive Summary 1
Energy Summary 2
Production of Energy by Type 4
Consumption of Energy by Type 6
Net Imports of Energy by Type 8
Cooling Degree-Days 10
Energy Indicators 12

Part 2 — Energy Consumption 17
Consumption of Energy by End-Use Sector 18
Consumption of Energy by the Residential & Commercial Sector 20
Consumption of Energy by the Industrial Sector 21
Consumption of Energy by the Transportation Sector 22
Consumption of Energy by the Electric Utilities 23

Part 3 — Petroleum 27
Crude Oil 28
Total Refined Petroleum Products 30
Total Petroleum Imports 32
Motor Gasoline 34
Jet Fuel 36
Distillate Fuel Oil 38
Residual Fuel Oil 40
Natural Gas Plant Liquids 42
Petroleum Primary Supply Balance 44

Part 4 — Natural Gas 47

Part 5 — Oil and Gas Resource Development 51

Part 6 — Coal 55

Part 7 — Electric Utilities 61

Part 8 — Nuclear 69

Part 9 — Price 73
Petroleum Price Summary 74
Crude Oil 76
Motor Gasoline 80
Aviation Fuels 81
Heating Oil 82
Residual Fuel Oil 84
Natural Gas 85
Electricity 86

Part 10 — International 87
Crude Oil Production 88
Petroleum Consumption 90
Nuclear Electricity Generation 92

Definitions 94

Explanatory Notes 99

Conversion Factors

For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C. 20402

OVERVIEW

Production

Energy production during the first 3 months of 1981 totaled 16.3 quadrillion Btu, a 0.5 percent decrease compared to production during the same period of 1980. This amounted to a 0.6 percent increase when measured as a daily rate (a measure which removes the influence of leap year). Decreases in production occurred for petroleum and natural gas. Petroleum production was down 1.3 percent and natural gas 3.4 percent (all measured as daily rates). Coal production increased by 6.7 percent. All other forms of energy production combined were up by 2.7 percent.

Consumption

During the first 3 months of 1981, energy consumption totaled 20.2 quadrillion Btu, a 5.5 percent decrease compared to consumption during the same period of 1980, or 4.5 percent lower when average daily rates are compared. Decreases in the daily consumption rates of petroleum (7.9 percent) and natural gas (6.6 percent) contributed to the overall decline in energy consumption during this period. The average daily rate of coal consumption was up 4.4 percent over the level during the first 3 months of 1980.

Imports

Net imports of energy during the first 3 months of 1981 totaled 2.7 quadrillion Btu, 29.7 percent below the first 3 months of 1980 level. This decrease amounted to 28.9 percent when measured as a daily rate. By energy source, the decreases in net imports were electricity and coal coke combined, 6.4 percent; petroleum, 20.4 percent; and natural gas, 29.7 percent (daily rates). Net exports of coal during the first 3 months of 1981 were 62.4 percent higher than the level during the same period of 1980.

ENERGY SUMMARY (Quadrillion (10^{15}) Btu)

	March			Cumulative January through March				
	1981	1980	Percent Change	1981	1981 Daily Rate	1980	1980 Daily Rate	Percent Change*
Total Production	**5.673**	**5.620**	**+0.9**	**16.337**	**0.182**	**16.415**	**0.180**	**+0.6**
Petroleum[1]	1.733	1.759	−1.5	5.046	0.056	5.168	0.057	−1.3
Natural Gas	1.715	1.791	−4.2	5.011	0.056	5.245	0.058	−3.4
Coal	1.759	1.589	+10.7	4.849	0.054	4.593	0.050	+6.7
Other[2]	0.466	0.481	−3.1	1.431	0.016	1.409	0.015	+2.7
Total Consumption	**6.426**	**6.906**	**−7.0**	**20.170**	**0.224**	**21.347**	**0.235**	**−4.5**
Petroleum[3]	2.652	2.961	−10.4	8.320	0.092	9.136	0.100	−7.9
Natural Gas	1.955	2.143	−8.8	6.197	0.069	6.708	0.074	−6.6
Coal	1.338	1.307	+2.4	4.173	0.046	4.042	0.044	+4.4
Other[4]	0.481	0.495	−2.9	1.479	0.016	1.461	0.016	+2.4
Net Imports	**0.785**	**1.222**	**−35.7**	**2.747**	**0.031**	**3.906**	**0.043**	**−28.9**
Petroleum[5]	0.958	1.250	−23.3	3.059	0.034	3.887	0.043	−20.4
Natural Gas	0.072	0.107	−33.0	0.235	0.003	0.337	0.004	−29.7
Coal	(0.260)	(0.150)	(+73.8)	(0.596)	(0.007)	(0.371)	(0.004)	(+62.4)
Other[6]	0.015	0.015	+5.7	0.048	0.001	0.052	0.001	−6.4

Totals may not equal sum of components due to independent rounding.
Parentheses indicate exports are greater than imports.
* Based on daily rates in order to remove the influence of leap year.
[1] Includes crude oil, lease condensate, and natural gas plant liquids.
[2] Includes hydroelectric, nuclear, and geothermal power and electricity produced from wood and waste
[3] Includes refined petroleum products and natural gas plant liquids.
[4] Includes hydroelectric, nuclear, and geothermal power, electricity produced from wood and waste, and net imports of electricity and coal coke.
[5] Includes crude oil, lease condensate, refined petroleum products, unfinished oils, natural gasoline, plant condensate, and imports of crude oil for the Strategic Petroleum Reserve.
[6] Includes net imports of electricity and coal coke.

Executive Summary

Energy Summary

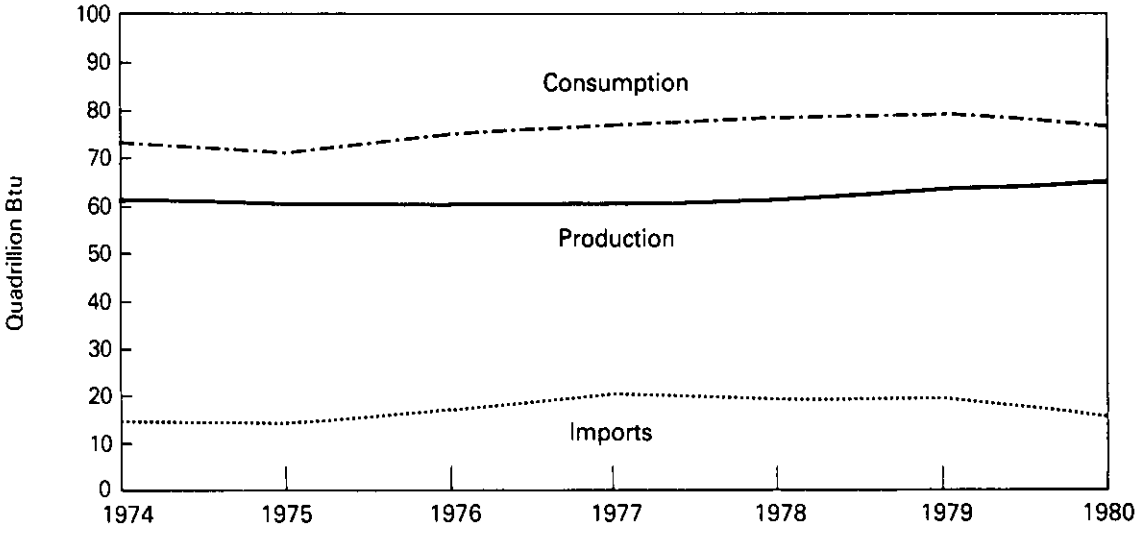
		Energy Production[1]	Energy Consumption[2]	Energy Imports[3]	Energy Exports[4]
		Quadrillion (10^{15}) Btu			
1973	**TOTAL**	**62.433**	**74.609**	**14.732**	**2.073**
1974	**TOTAL**	**61.229**	**72.759**	**14.417**	**2.241**
1975	**TOTAL**	**60.059**	**70.707**	**14.113**	**2.389**
1976	**TOTAL**	**60.091**	**74.510**	**16.838**	**2.213**
1977	**TOTAL**	**60.293**	**76.332**	**20.092**	**2.097**
1978	**TOTAL**	**61.204**	**78.150**	**19.262**	**1.952**
1979	January	5.325	7.934	1.783	0.177
	February	4.930	7.263	1.528	0.162
	March	5.510	6.993	1.722	0.245
	April	5.257	6.143	1.517	0.238
	May	5.466	6.194	1.602	0.254
	June	5.306	5.983	1.595	0.255
	July	5.008	6.117	1.684	0.270
	August	5.498	6.330	1.689	0.263
	September	5.173	5.896	1.536	0.223
	October	5.641	6.390	1.707	0.287
	November	5.413	6.535	1.564	0.265
	December	5.380	7.189	1.695	0.262
	TOTAL	**63.907**	**78.968**	**19.622**	**2.900**
1980	January	5.569	7.423	1.653	0.226
	February	5.227	7.018	1.462	0.206
	March	5.620	6.906	1.488	0.266
	April	5.412	6.021	1.334	0.298
	May	5.518	5.831	1.277	0.349
	June	5.346	5.709	1.289	0.367
	July	5.183	5.957	1.177	0.331
	August	5.327	5.847	1.188	0.321
	September	5.322	5.798	1.158	0.334
	October	5.519	6.168	1.235	0.374
	November	5.214	6.288	1.224	0.347
	December	5.620	7.235	1.354	0.342
	TOTAL	**64.876**	**76.201**	**15.840**	**3.762**
1981	January	5.468	7.398	1.323	0.263
	February	R5.196	R6.346	1.181	0.279
	March	5.673	6.426	1.158	0.373
	TOTAL (Year-to-date)	**16.337**	**20.170**	**3.662**	**0.915**

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]See Explanatory Note 1.
[2]See Explanatory Note 2.
[3]See Explanatory Note 3.
[4]See Explanatory Note 4.
R = Revised data.
Note: The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces in Europe; and adjustments to account for discrepancies between reporting systems.
Source: •Energy Information Administration calculations based on data appearing elsewhere in this publication.

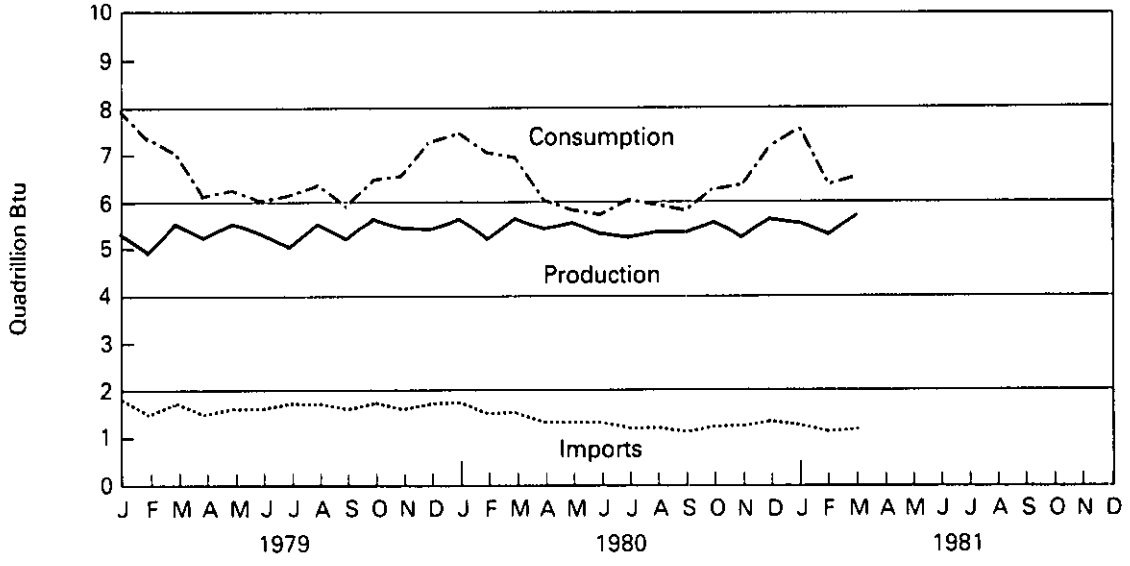
Executive Summary

Energy Summary

Yearly



Monthly



Executive Summary

Production of Energy by Type

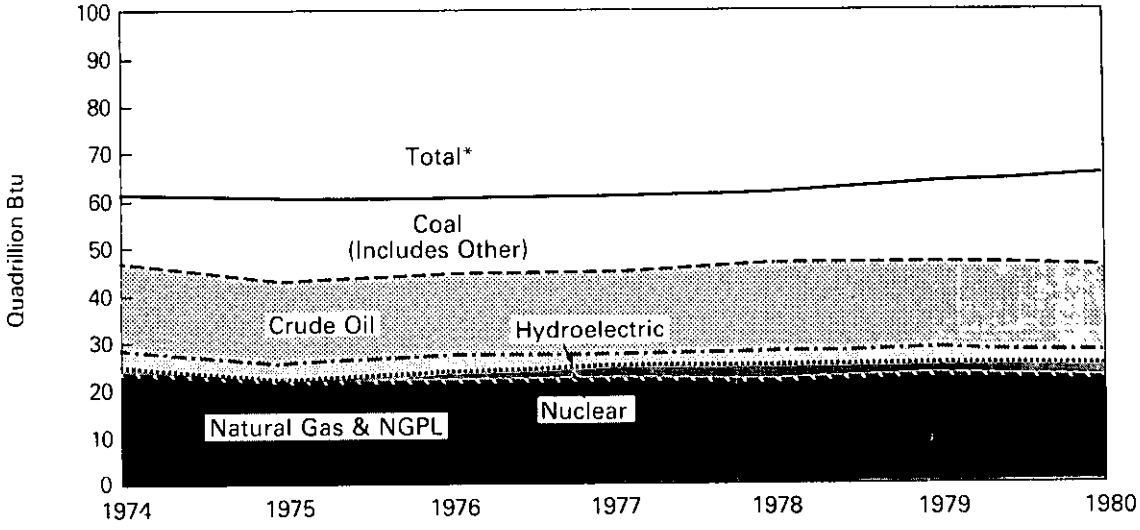
		Coal[1]	Crude Oil[2]	NGPL[3]	Natural Gas (Dry)	Hydro-electric Power[4]	Nuclear Electric Power	Other[5]	Total Energy Produced	Yearly Cumulative Energy Produced
					Quadrillion (10^{15}) Btu					
1973	**TOTAL**	**14.366**	**19.493**	**2.569**	**22.187**	**2.861**	**0.910**	**0.046**	**62.433**	
1974	**TOTAL**	**14.468**	**18.575**	**2.471**	**21.210**	**3.177**	**1.272**	**0.056**	**61.229**	
1975	**TOTAL**	**15.189**	**17.729**	**2.374**	**19.640**	**3.155**	**1.900**	**0.072**	**60.059**	
1976	**TOTAL**	**15.853**	**17.262**	**2.327**	**19.480**	**2.976**	**2.111**	**0.081**	**60.091**	
1977	**TOTAL**	**15.829**	**17.454**	**2.327**	**19.565**	**2.333**	**2.702**	**0.082**	**60.293**	
1978	**TOTAL**	**15.037**	**18.434**	**2.245**	**19.485**	**2.958**	**2.977**	**0.068**	**61.204**	
1979	January	1.306	1.524	0.188	1.738	0.264	0.299	0.007	5.325	5.325
	February	1.238	1.385	0.173	1.624	0.225	0.279	0.006	4.930	10.255
	March	1.509	1.546	0.190	1.721	0.274	0.262	0.008	5.510	15.765
	April	1.445	1.488	0.191	1.659	0.268	0.198	0.007	5.257	21.021
	May	1.570	1.546	0.192	1.683	0.306	0.162	0.007	5.466	26.487
	June	1.597	1.467	0.186	1.611	0.264	0.173	0.007	5.306	31.793
	July	1.211	1.504	0.192	1.630	0.240	0.224	0.007	5.008	36.802
	August	1.618	1.537	0.193	1.656	0.224	0.261	0.008	5.498	42.299
	September	1.459	1.483	0.186	1.603	0.200	0.235	0.007	5.173	47.473
	October	1.775	1.550	0.197	1.672	0.213	0.225	0.008	5.641	53.114
	November	1.548	1.524	0.199	1.691	0.236	0.207	0.008	5.413	58.527
	December	1.373	1.549	0.199	1.788	0.240	0.222	0.009	5.380	63.907
	TOTAL	**17.651**	**18.104**	**2.286**	**20.076**	**2.954**	**2.748**	**0.089**	**63.907**	
1980	January	1.543	1.555	0.202	1.782	0.267	0.213	0.008	5.569	5.569
	February	1.461	1.463	0.189	1.672	0.226	0.208	0.008	5.227	10.795
	March	1.589	1.566	0.192	1.791	0.257	0.216	0.008	5.620	16.415
	April	1.590	1.512	0.193	1.635	0.272	0.202	0.008	5.412	21.827
	May	1.602	1.553	0.191	1.659	0.305	0.198	0.010	5.518	27.345
	June	1.624	1.487	0.185	1.552	0.292	0.197	0.009	5.346	32.691
	July	1.384	1.538	0.186	1.582	0.258	0.226	0.010	5.183	37.875
	August	1.597	1.514	0.186	1.542	0.216	0.262	0.011	5.327	43.201
	September	1.637	1.500	0.179	1.547	0.195	0.254	0.010	5.322	48.523
	October	1.722	1.535	0.184	1.615	0.189	0.264	0.011	5.519	54.042
	November	1.490	1.479	0.186	1.619	0.203	0.226	0.011	5.214	59.256
	December	1.638	1.548	0.191	1.759	0.235	0.238	0.011	5.620	64.876
	TOTAL	**18.877**	**18.250**	**2.263**	**19.754**	**2.913**	**2.704**	**0.114**	**64.876**	
1981	January	1.501	1.537	0.196	1.735	0.236	0.252	0.011	5.468	5.468
	February	1.589	1.398	0.182	R1.561	0.223	0.233	0.010	R5.196	R10.665
	March	1.759	1.542	0.191	1.715	0.218	0.237	0.011	5.673	16.337
	TOTAL (Year-to-date)	**4.849**	**4.478**	**0.568**	**5.011**	**0.677**	**0.721**	**0.033**	**16.337**	

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Includes bituminous coal, lignite, and anthracite.
[2]Includes lease condensate.
[3]Natural gas plant liquids.
[4]Includes industrial and utility production of hydropower.
[5]Includes geothermal power and electricity produced from wood and waste.
R=Revised data.
Source: •Energy Information Administration calculations based on data reported elsewhere in this publication.

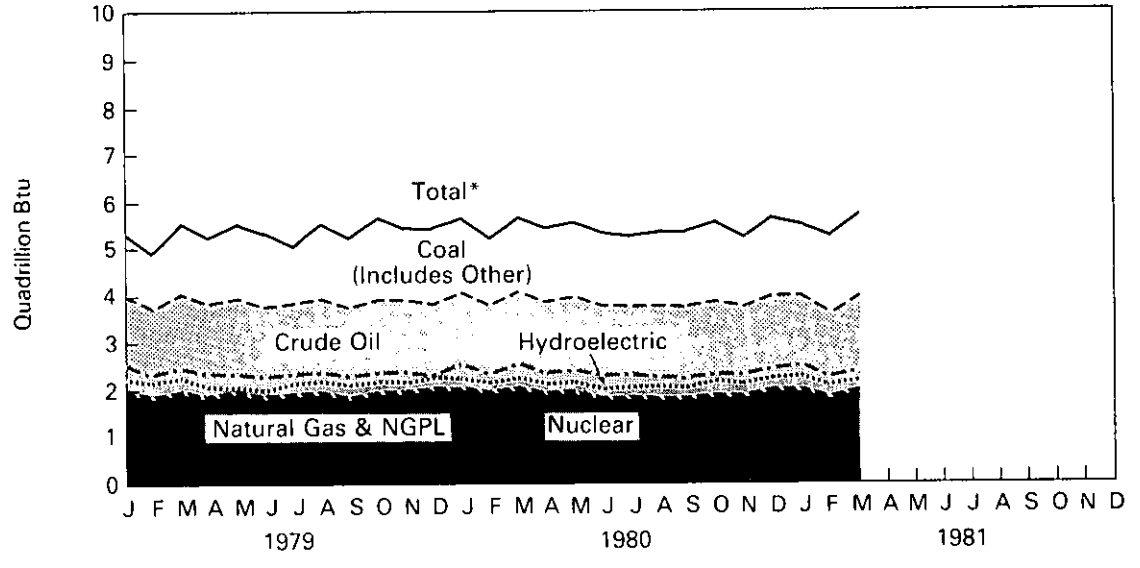
Executive Summary

Production of Energy by Type

Yearly



Monthly



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

Executive Summary

Consumption of Energy by Type

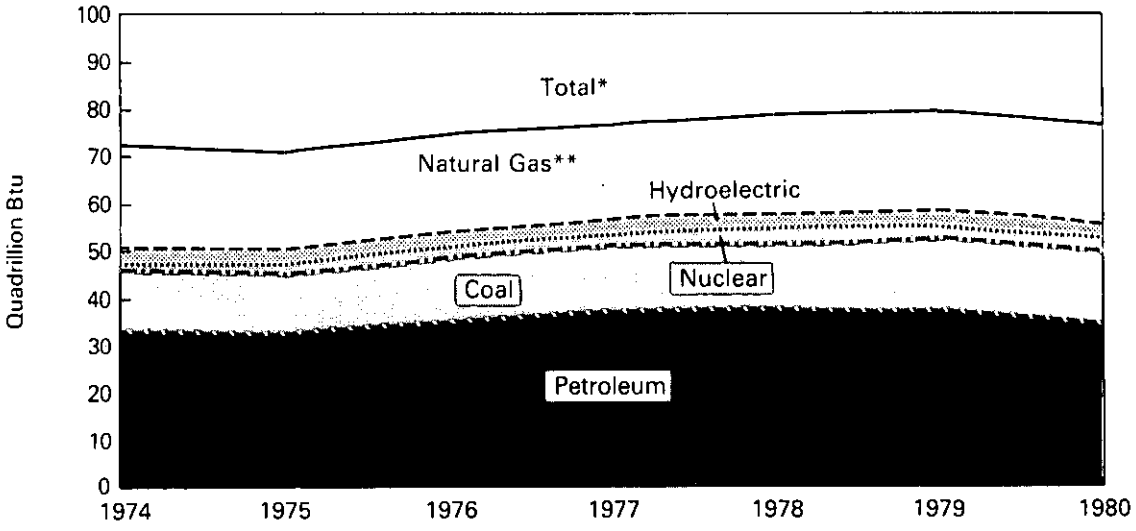
		Coal[1]	Natural Gas (Dry)	Petroleum	Hydroelectric Power[2]	Nuclear Electric Power	Net Imports of Coal Coke[3]	Other[4]	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Quadrillion (10^{15}) Btu					
1973	**TOTAL**	**13.300**	**22.512**	**34.840**	**3.010**	**0.910**	**(0.008)**	**0.046**	**74.609**	
1974	**TOTAL**	**12.876**	**21.732**	**33.455**	**3.309**	**1.272**	**0.059**	**0.056**	**72.759**	
1975	**TOTAL**	**12.823**	**19.948**	**32.731**	**3.219**	**1.900**	**0.014**	**0.072**	**70.707**	
1976	**TOTAL**	**13.733**	**20.345**	**35.175**	**3.066**	**2.111**	**0.000**	**0.081**	**74.510**	
1977	**TOTAL**	**13.965**	**19.931**	**37.122**	**2.515**	**2.702**	**0.015**	**0.082**	**76.332**	
1978	**TOTAL**	**13.846**	**20.000**	**37.965**	**3.164**	**2.977**	**0.131**	**0.068**	**78.150**	
1979	January	1.359	2.477	3.506	0.282	0.299	0.004	0.007	7.934	7.934
	February	1.209	2.250	3.275	0.241	0.279	0.003	0.006	7.263	15.197
	March	1.218	1.921	3.291	0.292	0.262	0.002	0.008	6.993	22.190
	April	1.146	1.627	2.873	0.285	0.198	0.005	0.007	6.143	28.332
	May	1.200	1.459	3.032	0.324	0.162	0.011	0.007	6.194	34.527
	June	1.244	1.336	2.931	0.281	0.173	0.010	0.007	5.983	40.509
	July	1.341	1.358	2.920	0.258	0.224	0.008	0.007	6.117	46.626
	August	1.349	1.370	3.091	0.242	0.261	0.009	0.008	6.330	52.956
	September	1.204	1.357	2.868	0.218	0.235	0.008	0.007	5.896	58.853
	October	1.237	1.590	3.096	0.231	0.225	0.004	0.008	6.390	65.243
	November	1.243	1.805	3.018	0.254	0.207	0.000	0.008	6.535	71.779
	December	1.360	2.116	3.223	0.258	0.222	0.002	0.009	7.189	78.968
	TOTAL	**15.109**	**20.666**	**37.123**	**3.166**	**2.748**	**0.066**	**0.089**	**78.968**	
1980	January	1.410	2.327	3.177	0.285	0.213	0.003	0.008	7.423	7.423
	February	1.325	2.238	2.998	0.242	0.208	(0.001)	0.008	7.018	14.441
	March	1.307	2.143	2.961	0.275	0.216	(0.003)	0.008	6.906	21.347
	April	1.169	1.601	2.756	0.289	0.202	(0.005)	0.008	6.021	27.368
	May	1.173	1.383	2.749	0.323	0.198	(0.006)	0.010	5.831	33.199
	June	1.245	1.279	2.672	0.309	0.197	(0.004)	0.009	5.709	38.908
	July	1.401	1.328	2.719	0.276	0.226	(0.004)	0.010	5.957	44.865
	August	1.393	1.272	2.679	0.234	0.262	(0.003)	0.011	5.847	50.712
	September	1.272	1.326	2.727	0.213	0.254	(0.004)	0.010	5.798	56.510
	October	1.238	1.574	2.880	0.207	0.264	(0.006)	0.011	6.168	62.678
	November	1.261	1.820	2.752	0.220	0.226	(0.002)	0.011	6.288	68.966
	December	1.407	2.201	3.126	0.253	0.238	(0.001)	0.011	7.235	76.201
	TOTAL	**15.603**	**20.495**	**34.196**	**3.125**	**2.704**	**(0.037)**	**0.114**	**76.201**	
1981	January	1.490	2.303	3.088	0.254	0.252	0.000	0.011	7.398	7.398
	February	1.346	R1.939	2.580	0.239	0.233	(0.001)	0.010	R6.346	R13.744
	March	1.338	1.955	2.652	0.236	0.237	(0.003)	0.011	6.426	20.170
	TOTAL (Year-to-date)	**4.173**	**6.197**	**8.320**	**0.729**	**0.721**	**(0.004)**	**0.033**	**20.170**	

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Includes bituminous coal, lignite, and anthracite.
[2]Includes industrial and utility production, and net imports of electricity.
[3]Parentheses indicate exports are greater than imports.
[4]Includes geothermal power and electricity produced from wood and waste.
R=Revised data.
Source: •Energy Information Administration calculations based on data reported elsewhere in this publication.

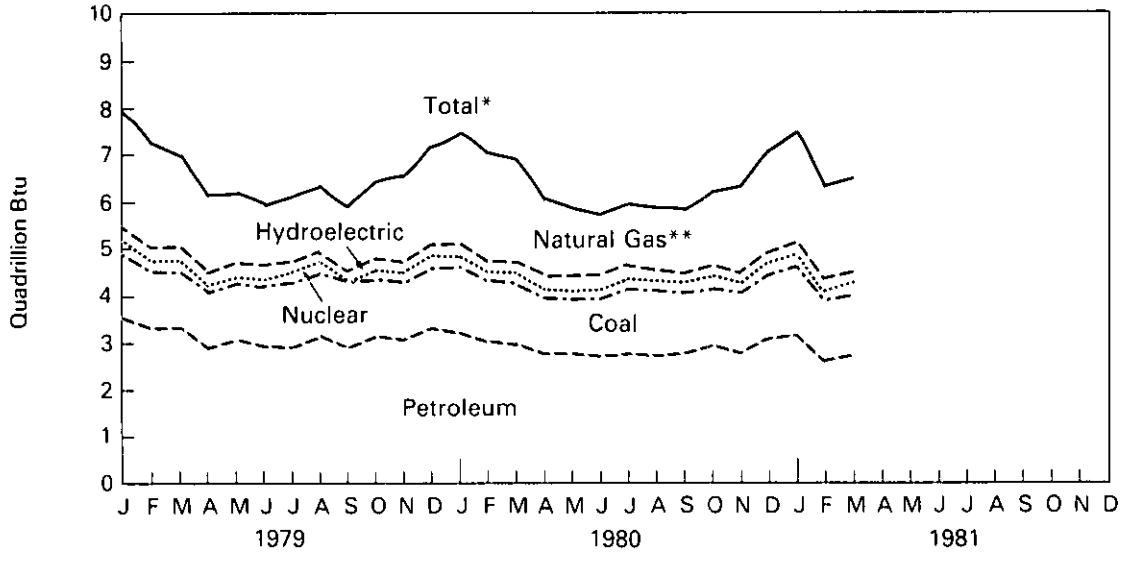
Executive Summary

Consumption of Energy by Type

Yearly



Monthly



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

Executive Summary

Net Imports of Energy by Type[1]

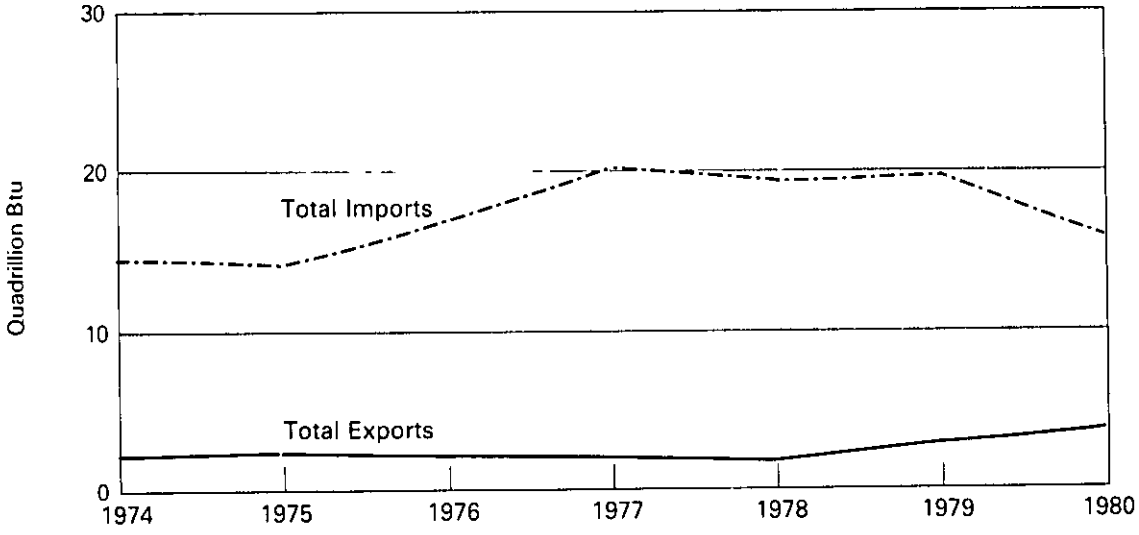
		Coal[2]	Crude Oil[3]	Refined Petroleum Products[4]	Natural Gas (Dry)	Electricity[5]	Coal Coke	Net Imports	Yearly Cumulative Net Imports of Energy
		Quadrillion (10^{15}) Btu							
1973	**TOTAL**	**(1.442)**	**6.883**	**6.097**	**0.981**	**0.148**	**(0.008)**	**12.659**	
1974	**TOTAL**	**(1.585)**	**7.389**	**5.273**	**0.907**	**0.133**	**0.059**	**12.175**	
1975	**TOTAL**	**(1.766)**	**8.708**	**3.800**	**0.904**	**0.064**	**0.014**	**11.725**	
1976	**TOTAL**	**(1.590)**	**11.221**	**3.982**	**0.922**	**0.089**	**0.000**	**14.625**	
1977	**TOTAL**	**(1.424)**	**13.921**	**4.321**	**0.981**	**0.182**	**0.015**	**17.995**	
1978	**TOTAL**	**(1.024)**	**13.125**	**3.932**	**0.941**	**0.206**	**0.131**	**17.310**	
1979	January	(0.093)	1.215	0.361	0.100	0.018	0.004	1.606	1.606
	February	(0.067)	1.014	0.304	0.096	0.016	0.003	1.366	2.972
	March	(0.122)	1.082	0.386	0.112	0.018	0.002	1.478	4.449
	April	(0.138)	1.037	0.252	0.105	0.017	0.005	1.279	5.728
	May	(0.165)	1.097	0.283	0.103	0.018	0.011	1.347	7.075
	June	(0.156)	1.118	0.252	0.100	0.017	0.010	1.340	8.416
	July	(0.168)	1.145	0.308	0.102	0.018	0.008	1.414	9.829
	August	(0.160)	1.182	0.281	0.097	0.018	0.009	1.426	11.255
	September	(0.134)	1.090	0.236	0.097	0.017	0.008	1.314	12.569
	October	(0.197)	1.209	0.279	0.108	0.018	0.004	1.420	13.990
	November	(0.163)	1.040	0.290	0.115	0.017	0.000	1.299	15.289
	December	(0.166)	1.099	0.370	0.110	0.018	0.002	1.433	16.722
	TOTAL	**(1.730)**	**13.328**	**3.603**	**1.243**	**0.212**	**0.066**	**16.722**	
1980	January	(0.117)	1.089	0.316	0.118	0.018	0.003	1.428	1.428
	February	(0.104)	0.948	0.284	0.112	0.017	(0.001)	1.256	2.683
	March	(0.150)	0.984	0.266	0.107	0.018	(0.003)	1.222	3.906
	April	(0.202)	0.931	0.207	0.088	0.017	(0.005)	1.036	4.941
	May	(0.227)	0.858	0.218	0.067	0.018	(0.006)	0.928	5.870
	June	(0.237)	0.892	0.196	0.059	0.017	(0.004)	0.922	6.792
	July	(0.221)	0.794	0.199	0.060	0.018	(0.004)	0.845	7.637
	August	(0.246)	0.837	0.205	0.057	0.018	(0.003)	0.868	8.505
	September	(0.226)	0.765	0.216	0.056	0.017	(0.004)	0.824	9.329
	October	(0.251)	0.791	0.236	0.073	0.018	(0.006)	0.860	10.189
	November	(0.242)	0.763	0.256	0.085	0.017	(0.002)	0.876	11.066
	December	(0.220)	0.847	0.276	0.092	0.018	(0.001)	1.012	12.077
	TOTAL	**(2.444)**	**10.498**	**2.873**	**0.975**	**0.212**	**(0.037)**	**12.077**	
1981	January	(0.155)	0.821	0.292	0.084	0.018	0.000	1.060	1.060
	February	(0.180)	0.750	0.237	0.079	0.016	(0.001)	0.901	1.961
	March	(0.260)	0.769	0.189	0.072	0.018	(0.003)	0.785	2.747
	TOTAL (Year-to-date)	**(0.596)**	**2.341**	**0.719**	**0.235**	**0.052**	**(0.004)**	**2.747**	

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Net imports = imports minus exports. Parentheses indicate exports are greater than imports.
[2]Includes bituminous coal, lignite, and anthracite.
[3]Includes crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.
[4]Includes refined petroleum products, unfinished oils, natural gasoline, and plant condensate.
[5]Only yearly totals are available for electricity imports and exports of data. Figures shown are estimates derived by dividing the yearly net import total by the number of days in the year and multiplying by the number of days in the month. Annual data for 1979 are used in estimating 1980 and 1981 data until actual annual data become available for those years.
R = Revised data.
Source: •Energy Information Administration calculations based on data reported elsewhere in this publication.

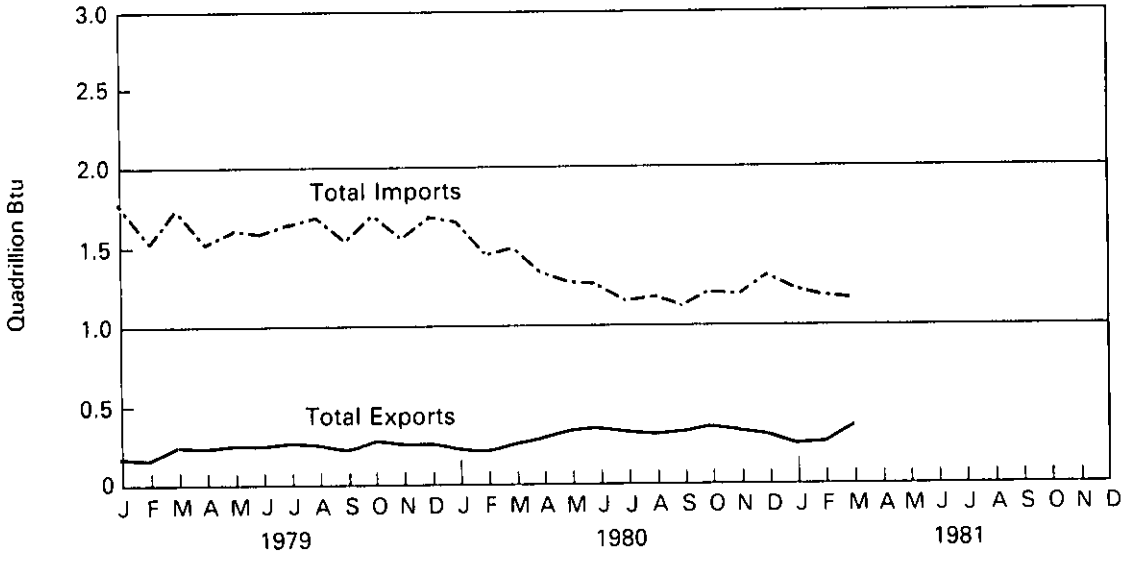
Executive Summary

Energy Imports and Exports

Yearly



Monthly



Executive Summary

Cooling Degree-Days[1]

Petroleum Administration For Defense (PAD) Districts	Cumulative January 1 through May 31				
	1981	1980[2]		Normal (1941–70)[2]	
PAD District I	158	170	(−7.3)	162	(−2.5)
New England Conn., Maine, Mass., N.H., R.I., Vt.	50	19	(166.9)	16	(214.4)
Middle Atlantic Del., Md., N.J., N.Y., Pa.	59	67	(−12.1)	47	(25.4)
Lower Atlantic Fla., Ga., N.C., S.C., Va., W. Va.	354	392	(−9.7)	399	(−11.2)
PAD District II Ill., Ind., Iowa, Kans., Ky., Mich., Minn., Mo., Nebr., N. Dak., Ohio, Okla., S. Dak., Tenn., Wisc.	61	81	(−25.5)	78	(−22.2)
Pad District III Ala., Ark., La., Miss., N. Mex., Tex.	426	385	(10.5)	428	(−0.6)
PAD District IV Colo., Idaho, Mont., Utah, Wyo.	17	18	(−5.5)	15	(10.9)
PAD District V Ariz., Calif., Nev., Oreg., Wash.	137	69	(96.8)	85	(60.6)
U.S. AVERAGE[3]	**152**	**149**	**(1.7)**	**152**	**(−0.1)**

[1]See Explanatory Note 6 for explanation of degree-days.
[2]Percentage change in parentheses.
[3]Excludes Alaska and Hawaii.

Executive Summary

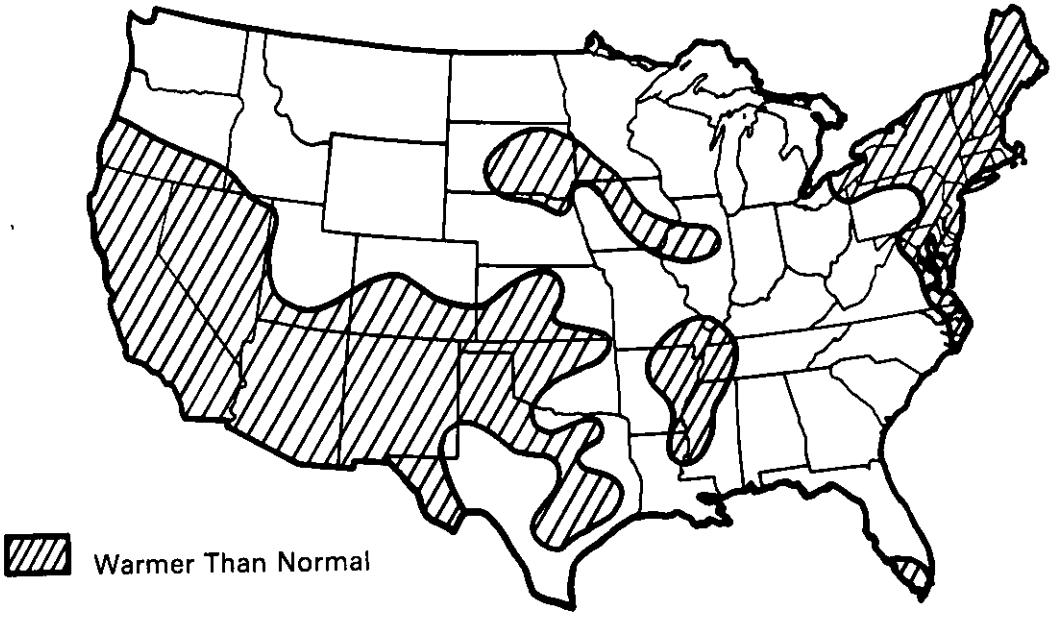
Cooling Degree-Days

Cooling Degree-Days Accumulated from January 1 through May 31

Departure from Last Year

Warmer Than Last Year

Departure from Normal



Warmer Than Normal

Source: • Department of Commerce — NOAA.

Executive Summary

Energy Indicators—

		Energy Consumption per GNP Dollar				U.S. Dependence on Petroleum Imports[3]			
				Gross National Product (Annual rate)		Direct Imports			
		Energy Consumption per GNP Dollar[1]	Yearly Rate of Energy Consumption	Current Dollars	1972 Dollars[2]	From Arab/OPEC Countries	From OPEC Countries	Total All Countries	Domestic Petroleum Products Supplied
ANNUAL RATE			Quadrillion Btu	Trillion dollars		Million barrels per day			
1973	**AVERAGE**	**59.4**	**74.609**	**1.326**	**1.255**	**0.92**	**2.99**	**6.26**	**17.31**
1974	**AVERAGE**	**58.3**	**72.759**	**1.434**	**1.248**	**0.75**	**3.28**	**6.11**	**16.65**
1975	**AVERAGE**	**57.3**	**70.707**	**1.549**	**1.234**	**1.38**	**3.60**	**6.06**	**16.32**
1976	**AVERAGE**	**57.3**	**74.510**	**1.718**	**1.300**	**2.42**	**5.07**	**7.31**	**17.46**
1977	**AVERAGE**	**55.6**	**76.332**	**1.918**	**1.372**	**3.19**	**6.19**	**8.81**	**18.43**
1978	**AVERAGE**	**54.4**	**78.150**	**2.156**	**1.437**	**2.96**	**5.75**	**8.36**	**18.85**
1979	1st Qtr	60.8	89.993	2.341	1.480	3.26	5.88	8.84	20.37
	2nd Qtr	49.9	73.477	2.375	1.473	3.17	5.45	8.10	17.68
	3rd Qtr	48.9	72.778	2.444	1.488	2.99	5.74	8.39	17.57
	4th Qtr	53.5	79.804	2.496	1.491	2.81	5.48	8.49	18.47
	AVERAGE	**53.2**	**78.968**	**2.414**	**1.483**	**3.06**	**5.64**	**8.46**	**18.51**
1980	1st Qtr	57.2	R85.857	2.572	1.502	3.00	4.97	7.90	18.27
	2nd Qtr	48.3	70.630	2.565	1.463	2.59	4.28	6.81	16.36
	3rd Qtr	47.6	R70.025	2.637	1.472	2.26	3.74	6.11	16.07
	4th Qtr	52.7	R78.336	R2.731	1.486	R2.33	R4.03	R6.52	R17.33
	AVERAGE	**51.5**	**R76.201**	**R2.626**	**R1.481**	**R2.54**	**R4.25**	**R6.83**	**R17.01**
1981	1st Qtr	54.2	81.801	2.827	1.509	2.04	3.78	6.40	16.83

Geographic coverage: the 50 United States and District of Columbia.
[1]Thousand Btu per 1972 constant dollar.
[2]Current dollars converted to 1972 constant dollars by the formula:

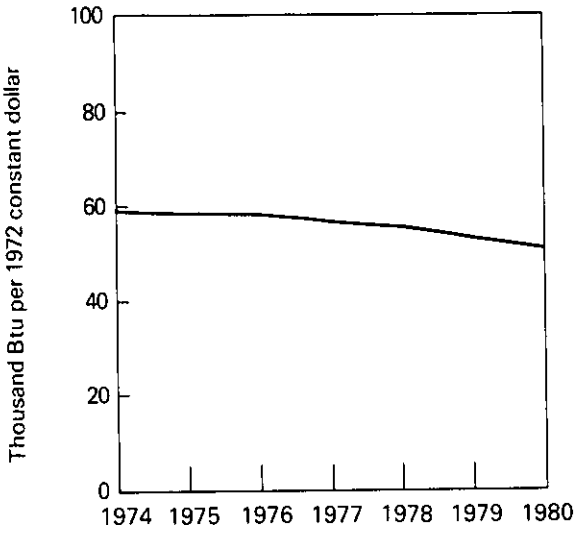
$$\text{Constant 1972 dollars} = \frac{\text{Current dollars in year N}}{\text{Gross National Product implicit price deflator in year N}} \times 100$$

The Gross National Product deflators (1972 = 100) were determined by the Department of Commerce, Bureau of Economic Analysis. GNP rates are from the Business Conditions Digest published by the Bureau of Economic Analysis.
[3]Beginning in October 1977 Strategic Petroleum Reserve imports are included.
R = Revised.
Note: This page is updated every quarter, during the months of March, June, September, and December. In other months, data appearing elsewhere in this publication are more current.

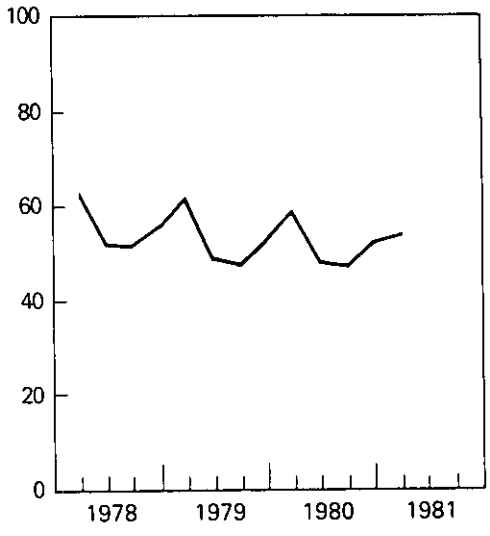
Executive Summary

Energy Consumption per GNP Dollar

Yearly

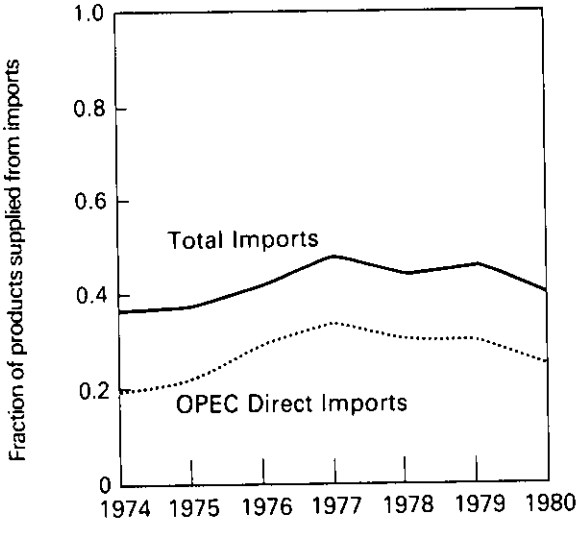


Quarterly

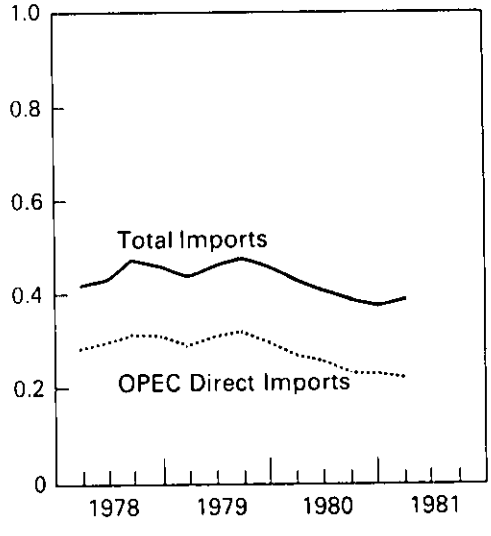


U.S. Dependence on Petroleum Imports

Yearly



Quarterly

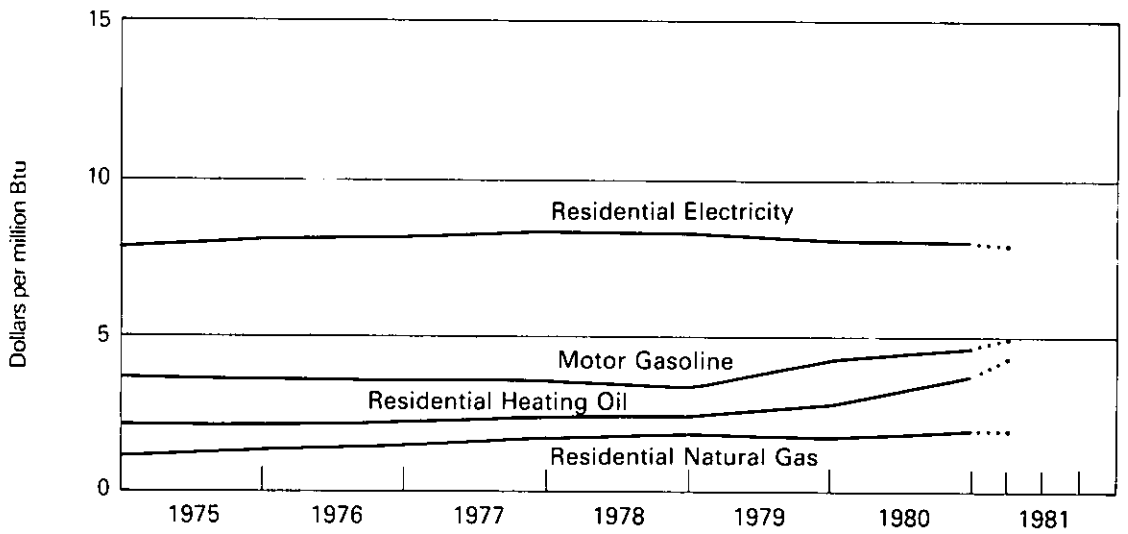


Executive Summary

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

		Leaded Regular Motor Gasoline		Residential Heating Oil		Residential Natural Gas		Residential Electricity	
		cent/gal	$/MMBtu	cent/gal	$/MMBtu	cent/Mcf	$/MMBtu	cent/kWh	$/MMBtu
1973	**AVERAGE**	**NA**	**NA**	**NA**	**NA**	**121.2**	**1.19**	**2.39**	**7.00**
1974	**AVERAGE**	**45.1**	**3.61**	**29.4**	**2.12**	**121.4**	**1.19**	**2.63**	**7.71**
1975	**AVERAGE**	**44.1**	**3.53**	**29.3**	**2.11**	**132.8**	**1.30**	**2.73**	**8.00**
1976	**AVERAGE**	**43.4**	**3.47**	**29.8**	**2.15**	**145.4**	**1.43**	**2.74**	**8.03**
1977	**AVERAGE**	**42.9**	**3.43**	**31.8**	**2.29**	**162.2**	**1.59**	**2.80**	**8.21**
1978	**AVERAGE**	**40.1**	**3.21**	**31.7**	**2.29**	**164.4**	**1.62**	**2.76**	**8.09**
1979	**AVERAGE**	**49.4**	**3.95**	**37.8**	**2.73**	**171.5**	**1.68**	**2.67**	**7.83**
1980	1st Qtr	60.9	4.87	49.8	3.59	190.9	1.88	2.53	7.42
	2nd Qtr	62.1	4.97	49.8	3.59	197.2	1.94	2.75	8.06
	3rd Qtr	60.6	4.85	49.2	3.55	207.6	2.04	2.86	8.38
	4th Qtr	58.2	4.65	R50.7	R3.66	198.9	1.95	2.73	8.00
	AVERAGE	**60.5**	**4.84**	**R49.7**	**3.58**	**198.8**	**1.95**	**2.72**	**7.97**
1981	1st Qtr	62.1	4.97	57.0	4.11	196.0	1.93	2.65	7.77

Average Cost of Fuels to End Users (1972 constant dollars)



Geographic coverage: the 50 United States and District of Columbia.
NA = Not available. R = Revised.
Note: This page is updated every quarter, during the months of March, June, September, and December. In other months, data appearing elsewhere in this publication are more current.
Sources: • Motor Gasoline—Bureau of Labor Statistics.

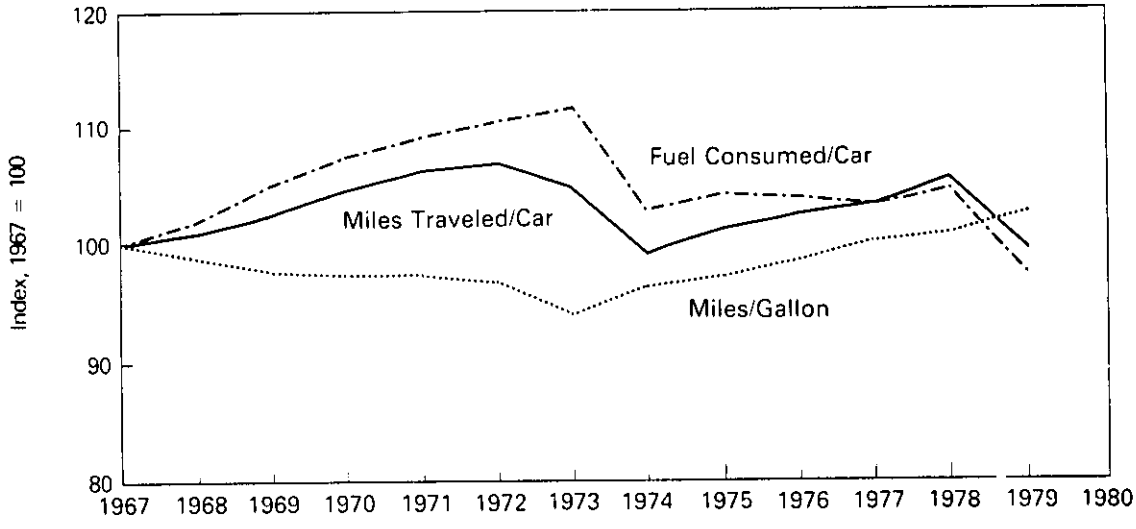
- Heating Oil—1974 and 1975, Form CLC-92, "No. 2 Heating Oil Monthly Price Adjustment Report," and 1976 forward, FEA Form P112-M-1, and EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report."
- Natural Gas—1973 through 1979 annual numbers, Bureau of Mines and Energy Information Administration Form 1340-A, "Supply and Disposition of Natural Gas to Non-Producing Distributors;" and Form 1341-A, "Supply and Disposition of Natural Gas to Producers and Pipelines;" 1980 and 1981 quarterly numbers and 1980 annual numbers, Bureau of Labor Statistics.
- Electricity—1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: FERC Form 5, " Electric Utility Company Monthly Statement."
- Deflator—The Consumer Price Index.

Executive Summary

Energy Indicator — U.S. Passenger Car Efficiency

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

U.S. Passenger Car Efficiency Index



Geographic coverage: the 50 United States and District of Columbia.
Source: • U.S. Department of Transportation, Federal Highway Administration, Federal Highway Statistics Division, "Highway Statistics", Table VM-1.

Energy Consumption

Total U.S. energy consumption in March 1981 rose to 6.4 quadrillion Btu, 7.0 percent below March 1980 and a 1.3 percent increase from the February 1981 consumption level.

The Residential and Commercial Sector consumption was 2.5 quadrillion Btu in March 1981, 9.4 percent lower than February 1981 and 7.5 percent lower than the amount consumed during March 1980. The Residential and Commercial Sector consumed 38.3 percent of the total consumption for March 1981, down from the sector's 38.5 percent share in March 1980.

The Industrial Sector consumption was 2.4 quadrillion Btu in March 1981, up 10.8 percent from February 1981 and down 7.6 percent from the consumption level in March 1980. The Industrial Sector consumed 38.0 percent of the March 1981 total, as compared to the 38.3 percent share in March 1980.

The Transportation Sector consumption was 1.5 quadrillion Btu in March 1981, up 6.7 percent from February 1981 and down 4.8 percent from the consumption level in March 1980. This sector consumed 23.7 percent of the March 1981 total, as compared to the 23.1 percent share in March 1980.

The Electric Utilities consumption was an estimated 2.0 quadrillion Btu of energy in March 1981, 2.0 percent higher than in the previous month, and 2.0 percent lower than the energy consumed in March 1980. Coal contributed 51.3 percent of the energy consumed by Electric Utilities in March 1981, while natural gas contributed 14.0 percent, nuclear power 11.8 percent, hydroelectric power 11.6 percent, petroleum 10.7 percent, and geothermal, wood and waste 0.5 percent.

Consumption

Energy Consumption Summary for March 1981
Quadrillion (10^{15}) Btu

Primary Energy Source	Sector: Residential and Commercial	Industrial	Transportation	Electric Utilities	TOTAL
Coal	0.018	0.289	0.000	1.031	1.338
Natural Gas (dry)	0.928	0.687	0.058	0.282	1.955
Petroleum	0.320	0.657	1.459	0.216	2.652
Hydroelectric	0.000	0.003	0.000	0.233	0.236
Nuclear	0.000	0.000	0.000	0.237	0.237
Net Coke Imports	0.000	(0.003)	0.000	0.000	(0.003)
Other	0.000	0.000	0.000	0.011	0.011
TOTAL PRIMARY ENERGY	**1.266**	**1.633**	**1.517**	**2.010**	**6.426**
Electricity Sales	0.344	0.234	0.001	(0.579)	
Net Energy Consumption	1.611	1.867	1.517		4.995
Electrical Energy Losses	0.850	0.578	0.002	(1.430)	1.430
TOTAL ENERGY CONSUMED	**2.461**	**2.445**	**1.520**		**6.426**

Totals may not equal sum of components due to independent rounding.
Notes and sources for this table and all other tables in this section are provided on the last page of this section.

Consumption

Consumption of Energy by End-Use Sector[1]

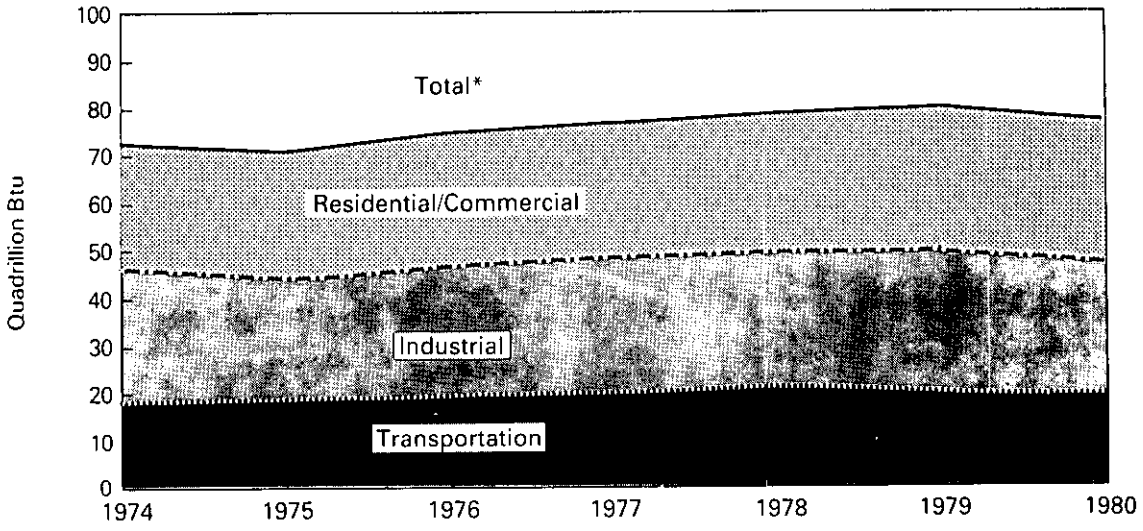
		Residential and Commercial	Industrial	Transportation	Total Energy Consumed
		Quadrillion (10^{15}) Btu			
1973	**TOTAL**	**26.613**	**29.474**	**18.519**	**74.609**
1974	**TOTAL**	**25.974**	**28.755**	**18.026**	**72.759**
1975	**TOTAL**	**26.014**	**26.512**	**18.177**	**70.707**
1976	**TOTAL**	**27.213**	**28.230**	**19.063**	**74.510**
1977	**TOTAL**	**27.569**	**29.024**	**19.735**	**76.332**
1978	**TOTAL**	**28.159**	**29.373**	**20.612**	**78.150**
1979	January	3.212	2.930	1.791	7.934
	February	3.064	2.495	1.703	7.263
	March	2.678	2.542	1.772	6.993
	April	2.150	2.395	1.598	6.143
	May	1.934	2.589	1.672	6.194
	June	1.866	2.509	1.608	5.983
	July	1.953	2.560	1.604	6.117
	August	2.043	2.598	1.689	6.330
	September	1.848	2.489	1.559	5.896
	October	1.949	2.777	1.663	6.390
	November	2.138	2.796	1.601	6.535
	December	2.627	2.872	1.690	7.189
	TOTAL	**27.462**	**31.551**	**19.950**	**78.968**
1980	January	2.887	2.902	1.633	7.423
	February	2.845	2.604	1.569	7.018
	March	2.661	2.647	1.597	6.906
	April	2.124	2.348	1.548	6.021
	May	1.880	2.409	1.542	5.831
	June	1.906	2.317	1.486	5.709
	July	2.109	2.302	1.546	5.957
	August	2.096	2.238	1.513	5.847
	September	1.959	2.355	1.483	5.798
	October	1.952	2.636	1.580	6.168
	November	R2.127	R2.689	1.471	6.288
	December	R2.736	R2.837	1.661	7.235
	TOTAL	**R27.283**	**R30.284**	**18.628**	**76.201**
1981	January	R3.151	R2.590	1.656	7.398
	February	R2.715	R2.206	1.425	R6.346
	March	2.461	2.445	1.520	6.426
	TOTAL (Year-to-date)	**8.327**	**7.241**	**4.601**	**20.170**

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]See Explanatory Note 5 for definitions of the Residential and Commercial, Industrial, and Transportation Sectors. The methodology used for sector calculations is provided in the Notes and Sources on the last page of this section.
R = Revised data.
Source: •See Notes and Sources on the last page of this section.

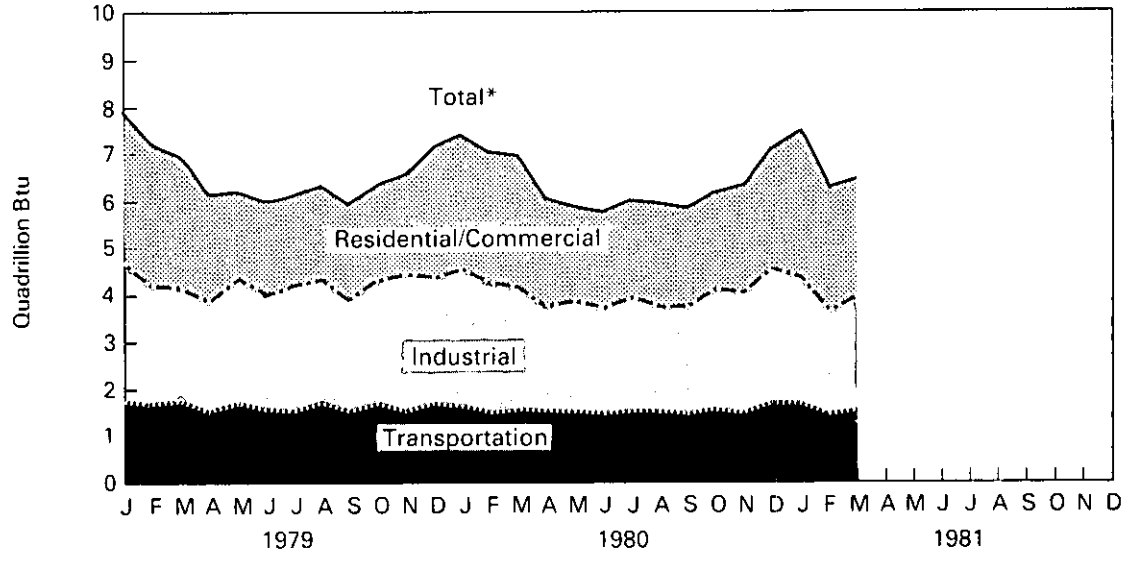
Consumption

Consumption of Energy by End-Use Sector

Yearly



Monthly



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

Consumption

Consumption of Energy by the Residential and Commercial Sector[1]

		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses[2]	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Quadrillion (10^{15}) Btu			
1973	**TOTAL**	**0.291**	**7.626**	**6.741**	**3.495**	**8.460**	**26.613**	
1974	**TOTAL**	**0.293**	**7.518**	**6.141**	**3.475**	**8.548**	**25.974**	
1975	**TOTAL**	**0.239**	**7.581**	**5.792**	**3.588**	**8.814**	**26.014**	
1976	**TOTAL**	**0.227**	**7.866**	**6.302**	**3.729**	**9.089**	**27.213**	
1977	**TOTAL**	**0.225**	**7.461**	**6.245**	**3.936**	**9.702**	**27.569**	
1978	**TOTAL**	**0.250**	**7.624**	**6.268**	**4.100**	**9.918**	**28.159**	
1979	January	0.032	1.308	0.490	0.398	0.985	3.212	3.212
	February	0.020	1.347	0.455	0.388	0.855	3.064	6.276
	March	0.015	1.027	0.411	0.352	0.873	2.678	8.955
	April	0.013	0.737	0.356	0.312	0.731	2.150	11.104
	May	0.012	0.466	0.401	0.299	0.756	1.934	13.038
	June	0.013	0.326	0.400	0.323	0.804	1.866	14.904
	July	0.012	0.263	0.402	0.365	0.911	1.953	16.857
	August	0.011	0.246	0.438	0.393	0.956	2.043	18.900
	September	0.014	0.252	0.398	0.370	0.815	1.848	20.748
	October	0.020	0.367	0.443	0.321	0.798	1.949	22.697
	November	0.023	0.613	0.406	0.315	0.781	2.138	24.836
	December	0.025	0.940	0.428	0.348	0.885	2.627	27.462
	TOTAL	**0.210**	**7.891**	**5.027**	**4.184**	**10.150**	**27.462**	
1980	January	0.022	1.113	0.410	0.381	0.960	2.887	2.887
	February	0.019	1.191	0.384	0.375	0.875	2.845	5.732
	March	0.014	1.053	0.359	0.358	R0.876	2.661	R8.393
	April	0.014	0.716	0.312	0.319	0.763	2.124	10.518
	May	0.009	0.450	0.331	0.298	0.793	1.880	12.398
	June	0.007	0.329	0.343	0.334	0.893	1.906	14.304
	July	0.010	0.259	0.355	0.410	1.075	2.109	16.412
	August	0.009	0.240	0.350	0.439	1.059	2.096	R18.508
	September	0.011	0.252	0.370	0.410	0.915	1.959	20.467
	October	0.015	0.370	0.396	0.343	0.829	1.952	22.419
	November	0.016	0.639	0.347	0.322	R0.803	R2.127	R24.547
	December	0.021	1.025	0.406	0.364	R0.920	R2.736	R27.283
	TOTAL	**0.166**	**7.637**	**4.365**	**4.354**	**R10.762**	**R27.283**	
1981	January	0.030	1.291	0.420	0.413	R0.998	R3.151	R3.151
	February	0.022	1.139	0.330	0.379	R0.846	R2.715	R5.866
	March	0.018	0.928	0.320	0.344	0.850	2.461	8.327
	TOTAL (Year-to-date)	**0.070**	**3.358**	**1.070**	**1.135**	**2.694**	**8.327**	

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]The Residential and Commercial Sector consists of housing units, non-manufacturing business establishments (e.g., wholesale and retail businesses), health and educational institutions, and government office buildings. Notes on the methodology used for sector calculations are provided in the Notes and Sources on the last page of this section.
[2]Proportion of total electrical energy losses incurred in the generation and transmission of electricity plus plant use and unaccounted for that are attributed to this sector.
R=Revised data.
Source: • See Notes and Sources on the last page of this section.

Consumption

Consumption of Energy by the Industrial Sector[1]

		Coal	Natural Gas (Dry)	Petro-leum	Hydro-electric	Net Coke Imports[2]	Electricity Sales	Electrical Energy Losses[3]	Total Energy Con-sumed	Yearly Cumulative Energy Consumed
						Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**4.350**	**10.397**	**6.683**	**0.035**	**(0.008)**	**2.341**	**5.676**	**29.474**	
1974	**TOTAL**	**4.057**	**10.012**	**6.506**	**0.033**	**0.059**	**2.337**	**5.751**	**28.755**	
1975	**TOTAL**	**3.801**	**8.531**	**6.160**	**0.032**	**0.014**	**2.304**	**5.669**	**26.512**	
1976	**TOTAL**	**3.792**	**8.768**	**6.951**	**0.033**	**0.000**	**2.525**	**6.162**	**28.230**	
1977	**TOTAL**	**3.494**	**8.642**	**7.692**	**0.033**	**0.015**	**2.635**	**6.513**	**29.024**	
1978	**TOTAL**	**3.462**	**8.540**	**7.840**	**0.032**	**0.131**	**2.732**	**6.637**	**29.373**	
1979	January	0.319	0.860	0.935	0.003	0.004	0.233	0.576	2.930	2.930
	February	0.298	0.602	0.850	0.003	0.003	0.231	0.509	2.495	5.425
	March	0.303	0.567	0.838	0.003	0.002	0.238	0.590	2.542	7.967
	April	0.292	0.573	0.723	0.003	0.005	0.239	0.560	2.395	10.362
	May	0.293	0.664	0.751	0.004	0.011	0.245	0.621	2.589	12.950
	June	0.285	0.641	0.714	0.003	0.010	0.245	0.611	2.509	15.459
	July	0.322	0.674	0.708	0.003	0.008	0.242	0.604	2.560	18.019
	August	0.301	0.694	0.748	0.003	0.009	0.246	0.598	2.598	20.617
	September	0.289	0.714	0.699	0.002	0.008	0.242	0.534	2.489	23.106
	October	0.300	0.841	0.780	0.002	0.004	0.244	0.605	2.777	25.883
	November	0.304	0.869	0.792	0.003	0.000	0.238	0.591	2.796	28.679
	December	0.334	0.856	0.863	0.003	0.002	0.230	0.584	2.872	31.551
	TOTAL	**3.641**	**8.554**	**9.401**	**0.034**	**0.066**	**2.873**	**6.983**	**31.551**	
1980	January	0.316	0.858	0.911	0.003	0.003	0.230	0.580	2.902	2.902
	February	0.295	0.708	0.819	0.003	(0.001)	0.234	0.546	2.604	5.506
	March	0.301	0.733	0.802	0.003	(0.003)	0.236	0.576	2.647	R8.154
	April	0.281	0.573	0.709	0.003	(0.005)	0.232	0.556	2.348	10.502
	May	0.275	0.602	0.695	0.003	(0.006)	0.229	0.610	2.409	R12.911
	June	0.259	0.564	0.658	0.003	(0.004)	0.228	0.608	2.317	15.227
	July	0.268	0.595	0.629	0.003	(0.004)	0.224	0.587	2.302	17.529
	August	0.252	0.574	0.627	0.002	(0.003)	0.230	0.555	2.238	19.767
	September	0.240	0.666	0.685	0.002	(0.004)	0.237	0.529	2.355	22.122
	October	0.258	0.846	0.727	0.002	(0.006)	0.237	0.573	2.636	24.758
	November	0.271	R0.863	0.749	0.002	(0.002)	0.231	R0.576	R2.689	R27.447
	December	0.305	R0.861	0.845	0.002	(0.001)	0.234	R0.590	R2.837	R30.284
	TOTAL	**3.320**	**R8.443**	**8.857**	**0.033**	**(0.037)**	**2.781**	**R6.886**	**R30.284**	
1981	January	0.308	R0.707	0.790	0.003	0.000	0.229	R0.554	R2.590	R2.590
	February	R0.303	R0.510	0.647	0.003	(0.001)	0.230	R0.514	R2.206	R4.796
	March	0.289	0.687	0.657	0.003	(0.003)	0.234	0.578	2.445	7.241
	TOTAL (Year-to-date)	**0.900**	**1.904**	**2.094**	**0.009**	**(0.004)**	**0.693**	**1.645**	**7.241**	

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]The Industrial Sector is made up of construction, manufacturing, agriculture, and mining establishments. Notes on the methodology used for sector calculations are provided in the Notes and Sources on the last page of this section.
[2]Net Imports=imports minus exports. Parentheses indicate exports are greater than imports.
[3]Proportion of total electrical energy losses incurred in the generation and transmission of electricity plus plant use and unaccounted for that are attributed to this sector.
R=Revised data.
Source: •See Notes and Sources on the last page of this section.

Consumption

Consumption of Energy by the Transportation Sector[1]

		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses[2]	Total Energy Consumed	Yearly Cumulative Energy Consumed
				Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**0.003**	**0.743**	**17.745**	**0.009**	**0.020**	**18.519**	
1974	**TOTAL**	**0.002**	**0.685**	**17.309**	**0.009**	**0.021**	**18.026**	
1975	**TOTAL**	**0.001**	**0.595**	**17.547**	**0.010**	**0.024**	**18.177**	
1976	**TOTAL**	**(3)**	**0.559**	**18.469**	**0.010**	**0.025**	**19.063**	
1977	**TOTAL**	**(3)**	**0.543**	**19.157**	**0.010**	**0.024**	**19.735**	
1978	**TOTAL**	**(3)**	**0.539**	**20.044**	**0.009**	**0.020**	**20.612**	
1979	January	(3)	0.073	1.715	0.001	0.002	1.791	1.791
	February	(3)	0.067	1.634	0.001	0.002	1.703	3.494
	March	(3)	0.057	1.712	0.001	0.002	1.772	5.267
	April	(3)	0.048	1.547	0.001	0.002	1.598	6.864
	May	(3)	0.043	1.626	0.001	0.002	1.672	8.536
	June	(3)	0.040	1.566	0.001	0.002	1.608	10.144
	July	(3)	0.040	1.561	0.001	0.002	1.604	11.748
	August	(3)	0.041	1.645	0.001	0.002	1.689	13.437
	September	(3)	0.040	1.516	0.001	0.002	1.559	14.996
	October	(3)	0.047	1.613	0.001	0.002	1.663	16.659
	November	(3)	0.053	1.544	0.001	0.002	1.601	18.260
	December	(3)	0.063	1.624	0.001	0.002	1.690	19.950
	TOTAL	**(3)**	**0.612**	**19.303**	**0.010**	**0.024**	**19.950**	
1980	January	(3)	0.069	1.561	0.001	0.002	1.633	1.633
	February	(3)	0.066	1.500	0.001	0.002	1.569	3.202
	March	(3)	0.063	1.531	0.001	0.002	1.597	4.799
	April	(3)	0.047	1.498	0.001	0.002	1.548	6.347
	May	(3)	0.041	1.498	0.001	0.002	1.542	7.889
	June	(3)	0.038	1.445	0.001	0.002	1.486	9.375
	July	(3)	0.039	1.503	0.001	0.002	1.546	10.921
	August	(3)	0.038	1.472	0.001	0.002	1.513	12.434
	September	(3)	0.039	1.441	0.001	0.002	1.483	13.917
	October	(3)	0.047	1.530	0.001	0.002	1.580	15.497
	November	(3)	0.054	1.414	0.001	0.002	1.471	16.967
	December	(3)	0.065	1.593	0.001	0.002	1.661	18.628
	TOTAL	**(3)**	**0.606**	**17.987**	**0.011**	**0.025**	**18.628**	
1981	January	(3)	0.068	1.585	0.001	0.002	1.656	1.656
	February	(3)	R0.057	R1.365	0.001	0.002	1.425	R3.081
	March	(3)	0.058	1.459	0.001	0.002	1.520	4.601
	TOTAL (Year-to-date)	**(3)**	**0.183**	**4.408**	**0.003**	**0.006**	**4.601**	

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]The Transportation Sector consists of both private and public passenger and freight transportation, as well as government transportation, including military operations. Notes on the methodology used for sector calculations are provided in the Notes and Sources on the last page of this section.
[2]Proportion of total electrical energy losses incurred in the generation and transmission of electricity plus plant use and unaccounted for that are attributed to this sector.
[3]Since 1976 the amount of coal consumed by the Transportation Sector has been negligible.
R = Revised data.
Source: •See Notes and Sources on the last page of this section.

Consumption

Consumption of Energy by the Electric Utilities

		Coal[1]	Natural Gas (Dry)	Petroleum[2]	Hydroelectric power[3]	Nuclear Electric Power	Other[4]	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**8.655**	**3.746**	**3.671**	**2.975**	**0.910**	**0.046**	**20.004**	
1974	**TOTAL**	**8.524**	**3.518**	**3.499**	**3.276**	**1.272**	**0.056**	**20.144**	
1975	**TOTAL**	**8.783**	**3.241**	**3.231**	**3.187**	**1.900**	**0.072**	**20.414**	
1976	**TOTAL**	**9.714**	**3.153**	**3.454**	**3.032**	**2.111**	**0.081**	**21.544**	
1977	**TOTAL**	**10.245**	**3.285**	**4.028**	**2.482**	**2.702**	**0.082**	**22.825**	
1978	**TOTAL**	**10.134**	**3.297**	**3.813**	**3.132**	**2.977**	**0.068**	**23.421**	
1979	January	1.009	0.236	0.367	0.279	0.299	0.007	2.196	2.196
	February	0.892	0.235	0.336	0.238	0.279	0.006	1.985	4.181
	March	0.900	0.270	0.329	0.289	0.262	0.008	2.057	6.239
	April	0.840	0.270	0.247	0.282	0.198	0.007	1.844	8.083
	May	0.894	0.286	0.255	0.320	0.162	0.007	1.924	10.006
	June	0.946	0.331	0.253	0.278	0.173	0.007	1.987	11.994
	July	1.007	0.382	0.249	0.256	0.224	0.007	2.125	14.119
	August	1.037	0.390	0.259	0.240	0.261	0.008	2.195	16.314
	September	0.901	0.350	0.255	0.215	0.235	0.007	1.964	18.278
	October	0.917	0.334	0.259	0.228	0.225	0.008	1.972	20.250
	November	0.916	0.270	0.276	0.251	0.207	0.008	1.928	22.178
	December	1.000	0.257	0.307	0.255	0.222	0.009	2.051	24.229
	TOTAL	**11.258**	**3.610**	**3.392**	**3.132**	**2.748**	**0.089**	**24.229**	
1980	January	1.073	0.286	0.295	0.282	0.213	0.008	2.156	2.156
	February	1.010	0.272	0.295	0.240	0.208	0.008	2.033	4.189
	March	0.992	0.293	0.269	0.272	0.216	0.008	2.050	6.239
	April	0.874	0.265	0.237	0.286	0.202	0.008	1.873	8.112
	May	0.890	0.291	0.225	0.319	0.198	0.010	1.933	10.045
	June	0.979	0.349	0.226	0.306	0.197	0.009	2.066	12.112
	July	1.124	0.435	0.230	0.273	0.226	0.010	2.299	14.410
	August	1.133	0.420	0.229	0.231	0.262	0.011	2.286	16.696
	September	1.021	R0.370	0.231	0.210	0.254	0.010	R2.096	18.791
	October	0.966	0.312	0.228	0.204	0.264	0.011	1.985	R20.777
	November	0.975	R0.265	0.241	0.218	0.226	0.011	R1.935	R22.712
	December	1.081	R0.250	0.282	0.251	0.238	0.011	R2.112	R24.824
	TOTAL	**12.117**	**R3.808**	**2.988**	**3.092**	**2.704**	**0.114**	**R24.824**	
1981	January	1.152	R0.237	0.294	0.251	0.252	0.011	R2.197	R2.197
	February	R1.021	R0.232	0.239	0.237	0.233	0.010	R1.971	R4.168
	March	1.031	0.282	0.216	0.233	0.237	0.011	2.010	6.178
	TOTAL (Year-to-date)	**3.204**	**0.751**	**0.748**	**0.721**	**0.721**	**0.033**	**6.178**	

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Includes bituminous coal, lignite, and anthracite.
[2]Based on deliveries to utilities.
[3]Includes net imports of electricity.
[4]Includes geothermal power and electricity produced from wood and waste.
R=Revised data.
Source: •See Notes and Sources on the last page of this section.

Notes and Sources for the Consumption Section

1. See Explanatory Note 5 in the Explanatory Notes Section located at the end of this publication for definitions of the Residential and Commercial, Industrial, Transportation, and Electric Utilities Sectors.
2. **Coal**: Coal is anthracite, bituminous coal, and lignite.
   Sources:
   - Anthracite—1973 through 1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*, "Coal—Pennsylvania Anthracite, Annual." 1977 forward: U.S. Department of Energy (DOE), Energy Information Administration, (EIA) *Energy Data Reports*, "Weekly Coal Report."
   - Bituminous coal and lignite—1973 through 1975, U.S. DOI, BOM, *Minerals Yearbook*, "Bituminous Coal and Lignite, Annual," Federal Power Commission (FPC), Form 4, "Monthly Power Plant Report." 1976 forward: DOE, EIA, *Energy Data Reports*, "Weekly Coal Report."
   - Electric Utility consumption of coal sources: same as Note 6 below.
3. **Natural Gas**: Total natural gas consumption is estimated monthly based on a supply/disposition balance calculation. Residential and Commercial Sector monthly consumption is estimated by allocating the EIA annual Residential and Commercial Sector consumption to the months in proportion to the American Gas Association (AGA) monthly sales to the Residential and Commercial Sectors. For incomplete years, the AGA monthly sales data are used temporarily. Monthly Transportation Sector consumption (which is natural gas for pipeline use) for complete years is estimated by allocating the EIA annual Transportation total to the months based on each month's total natural gas consumption as a share of the annual total natural gas consumption. For incomplete years, each month's Transportation total is estimated by applying the percentage of total natural gas accounted for by the Transportation Sector in the same month a year ago to the current month's total natural gas consumption. The Electric Utility consumption of natural gas is available monthly from Form 4, "Monthly Power Plant Report." Each month's Industrial Sector consumption is estimated by subtracting the Residential and Commercial, Transportation, and Electric Utilities Sectors consumption from the total natural gas consumption.
   Sources:
   - 1973 through 1975: DOI, BOM, *Minerals Yearbook*, "Natural Gas" chapter.
   - 1976 forward: DOE, *Energy Data Reports*, "Natural Gas Monthly Production and Consumption."
   - Electric Utilities consumption: 1973 through 1976, FPC, Form 4, "Monthly Power Plant Report." 1977 forward: DOE, EIA, FPC, Form 4, "Monthly Power Plant Report."
   - American Gas Association, "Monthly Gas Utility Statistical Report."
4. **Petroleum**: Petroleum consumption by end-use is the sum of all individual petroleum products consumed in each end-use. First, total consumption by product is determined. Petroleum consumption in this section of the *Monthly Energy Review* uses the series called "products supplied" in the Petroleum Section.
   Sources for petroleum products supplied by individual products are:
   - 1973 through 1975: DOI, BOM, *Mineral Industry Surveys*, "Petroleum Statement, Annual."
   - 1976 through 1979: DOE, EIA, *Energy Data Reports*, "Petroleum Statement, Annual."
   - 1980 forward: DOE, EIA, *Energy Data Reports*, "Petroleum Statement, Monthly," DOE, EIA, "Monthly Petroleum Statistics Report," and DOE, EIA, estimates for current months where above sources are not yet available.

   Each product's total is allocated to end-use sectors as follows:
   - Aviation gasoline—All to the Transportation Sector.
   - Asphalt and road oil—All to the Commercial Sector for use by government in road maintenance.
   - Distillate fuel—Allocated to the major end-use sectors in proportion to the sales of distillate fuel sold to each sector as reported for 1973 through 1975 in the DOI, BOM, *Mineral Industry Surveys*, "Fuel Oil Sales, Annual," and for 1976 through 1979 in the DOE, EIA, *Energy Data Reports*, "Fuel Oil Sales, Annual." In summary, the sectors' proportions are created from sales groupings as follows:
     —Residential and Commercial is sales for heating;
     —Industrial is sales for industrial use, oil company use, and for miscellaneous use except for that part of the miscellaneous use which is diesel used on the highway and is part of the Transportation Sector;
     —Transportation is sales for vessel bunkering, military, railroads, and diesel used on the highway (from the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, since 1979); and
     —Electric Utility is the sales to the electric utilities (except since 1979 when it is deliveries to the electric utilities from the FPC Form 423).
     The 1979 shares are used as estimates for succeeding periods until sales after 1979 are developed.
   - Jet fuel—small amounts in 1975 through 1977 are used in industrial and small amounts in all months are consumed by the electric utilities. All remaining jet fuel is allocated to the Transportation Sector.
   - Kerosene—Allocated to the major end-use sectors in proportion to the sales of kerosene sold to the Residential and Commercial Sector and the Industrial Sector as reported for 1973 through 1975 in the DOI, BOM, *Mineral Industry Surveys*, "Fuel Oil Sales, Annual," and for 1976 through 1979 in the DOE, EIA, *Energy Data Reports*, "Fuel Oil Sales, Annual":
     —Residential and Commercial is sales for heating in the "Fuel Oil Sales, Annual."
     —Industrial is sales for "All Other Uses" in the "Fuel Oil Sales, Annual."
     The 1979 shares are used as estimates for succeeding periods until sales after 1979 are developed.
   - Liquefied petroleum gases (LPG)—Allocated to the major end-use sectors in proportion to the sales of LPG sold to each sector as reported for 1973 through 1975 in the DOI, BOM, *Mineral Industry Surveys*, "Fuel Oil Sales, Annual," and for 1976 through 1979 in the DOE, EIA, *Energy Data Reports*, "Fuel Oil Sales, Annual." In summary, the sectors' proportions are created from sales groupings as follows:
     —Residential and Commercial is sales for residential and commercial use;
     —Industrial is sales for industrial use, for miscellaneous uses, to utility gas companies, to chemical plants, and 84 percent of LPG sold for use as internal combustion engine fuel use; and
     —Transportation is the remaining 16 percent of LPG sold for use as internal combustion fuel use.
     The 1979 shares are used as estimates for the succeeding periods until sales after 1979 are developed.
   - Lubricants—Allocated to the Industrial Sector and Transportation Sector for all months according to proportions of sales to those sectors from U.S. Department of Commerce, Bureau of the Census, *Current Industrial Reports*, "Sales of Lubricating and Industrial Oils and Greases." The 1973 shares are applied to 1973 and 1974; the 1975 shares are applied to 1975 and 1976; and the 1977 shares are applied from 1977 forward.
   - Motor gasoline—the DOE motor gasoline consumption data are allocated to end-use according to shares derived from the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Tables MF-21, MF-24 and MF-25. In summary, the sectors' proportions are created from sales groupings as follows:
     —Residential and Commercial is sales for construction use, for miscellaneous use, for public non-highway use, and for unclassified use;
     —Industrial is sales for agriculture and industrial and commercial use as classified in the *Highway Statistics*; and
     —Transportation is sales for highway use (minus the sales of special fuels which is primarily diesel fuel and is accounted for in the Transportation Sector of distillate fuel) and sales for marine use.
   - Petroleum coke consumed by the Electric Utilities—FPC, Form 4, "Monthly Power Plant Report." All other petroleum coke is allocated to the Industrial Sector.
   - Residual fuel—Allocated to the major end-use sectors in proportion to the sales of residual fuel sold to each sector as reported for 1973 through 1975 in the DOI, BOM, *Mineral Industry Surveys*, "Fuel Oil Sales, Annual," and for 1976 through 1979 in the DOE, EIA, *Energy Data Reports*, "Fuel Oil Sales, Annual." In summary, the sectors' proportions are created from sales groupings as follows:
     —No allocation for Residential Sector;
     —Sales for heating is assigned to the Commercial Sector;
     —Industrial Sector sales is the sum of sales for industrial use, oil company use, and miscellaneous uses;
     —Transportation Sector sales is the sum of sales for vessel bunkering, military, and railroads; and
     —Electric Utility is the sales to the electric utilities (except since 1979 when it is deliveries to the electric utilities from the FPC Form 423).
     The 1979 shares are used as estimates for succeeding periods until sales after 1979 are developed.
   - All other products are allocated to the Industrial Sector.

Notes and Sources for the Consumption Section (continued)

5. **Hydroelectric**: Includes electricity generated by hydropower at electric utilities, small amounts in the Industrial Sector, and net imports of electricity, which are assumed to be generated by hydropower and are included in the hydroelectricity in the Electric Utility Sector.

Sources for Electric Utility Sector:

- 1973 through 1976, FPC, Form 4, "Monthly Power Plant Report."
- 1977 forward: DOE, EIA, FPC, Form 4, "Monthly Power Plant Report."

Sources for Industrial Sector:

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

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

Sources for Imports and Exports of Electricity: Annual Data from DOE, Economic Regulatory Administration, "Report on Electric Energy Exchanges with Canada and Mexico." Monthly estimates are derived from annual data by dividing by the number of days in the year and multiplying by the number of days in the month. 1979 estimates are used for succeeding periods until later estimates are developed.

6. **Nuclear**: *Sources:* • 1973 through 1976: FPC, Form 4, "Monthly Power Plant Report."
• 1977 forward: DOE, EIA, FPC, Form 4, "Monthly Power Plant Report."

7. **Net Coke Imports**: Net coke imports is coke made from coal.

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

8. **Other Energy**: "Other" is electricity produced from geothermal power and from wood and waste. *Sources:* same as Note 6 above, for Nuclear.

9. **Electricity Sales**: The total energy consumed by electric utilities to generate and transmit electricity to the end-users, including all losses, is allocated to the major end-users in proprotion to the sales of electricity to the end-use sectors. "Other" sales, largely for use in government buildings, is allocated to the Residential and Commercial Sector, and about 4.2 percent of "Other" is for railroad usage and is counted in the Transportation Sector.

Source of sales data: 1973 through February 1980: FPC, Form 5, "Monthly Statement of Electric Operating Revenue and Income."
March 1980 forward: FERC Form 5, "Electric Utility Company Monthly Statement."

10. **Electrical Energy Losses**: In generating electricity with nuclear or fossil fuels, approximately 65 percent of the energy is lost in the form of heat. Transmission and distribution losses consume about an additional 3 percent of the energy inputs of the utility industry. In order to fully account for all energy consumed both directly and indirectly (i.e., utilities energy disposition), the electricity losses are allocated to the final end-use sectors in proportion to their direct kilowatt-hour usage, i.e., sales.

Crude Oil and Refined Petroleum Products*

Domestic crude oil production during April 1981 averaged 8.5 million barrels per day. This production rate was 2.6 percent below the rate in April 1980 and 1.3 percent lower than in March 1981.

Total petroleum imports averaged 5.1 million barrels per day in April 1981, 26.6 percent less than the April 1980 rate and 10.8 percent lower than in March 1981.

In April 1981, 16.0 million barrels per day of petroleum products were supplied for domestic use. Motor gasoline accounted for 42.5 percent of the total, distillate fuel oil 16.5 percent, and residual fuel oil 13.2 percent.

Motor gasoline supplied during April 1981 averaged 6.8 million barrels per day, 0.1 percent higher than the amount supplied in April 1980 and 8.9 percent higher than in March 1981.

In April 1981, 2.6 million barrels of distillate fuel oil were supplied per day, 0.1 percent higher than the amount supplied in April a year ago and 9.0 percent lower than in March 1981. Distillate fuel oil stocks were 162.9 million barrels at the end of April 1981, 8.0 percent below the stock level 1 year ago and 0.6 percent lower than the previous month's level.

Residual fuel oil supplied in April 1981 averaged 2.1 million barrels per day, 13.5 percent lower than in April 1980. Residual fuel oil stocks measured 69.5 million barrels at the end of April 1981, 18.4 percent below the level a year ago and 7.4 percent lower than the previous month's level.

*Estimates for the most recent month are based on EIA weekly data (except crude production) and will be revised to conform with data from the EIA Petroleum Reporting System as available. For the most recent months, crude production is an EIA estimate. The above import data excludes imports into the Strategic Petroleum Reserve.

Petroleum

Crude Oil

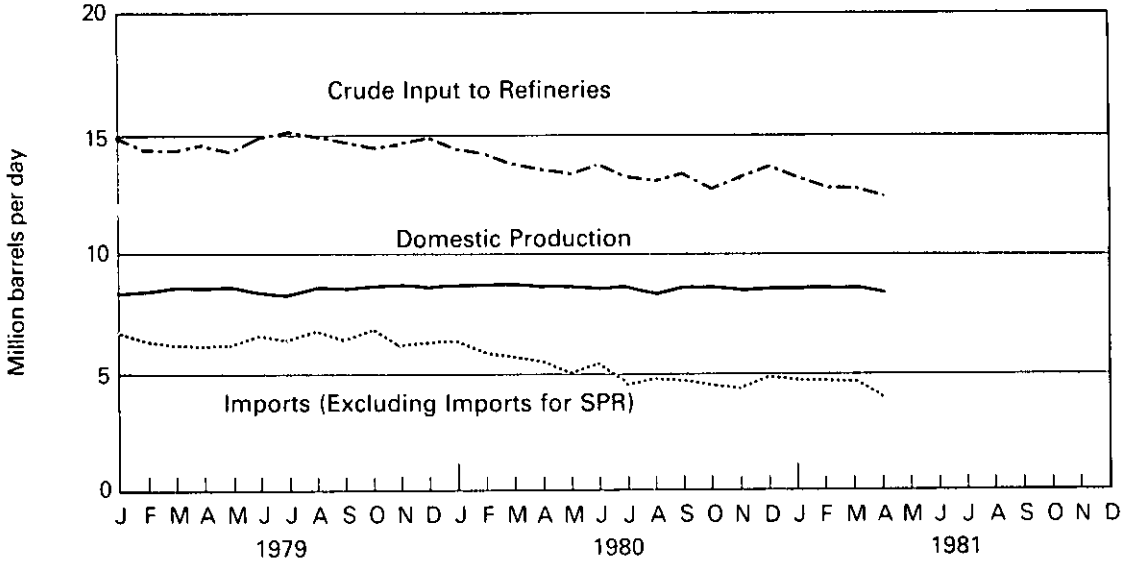
		Crude Input to Refineries	Total Domestic Production[1,2]	Alaskan Production	Crude Oil Imports[3]	Strategic Petroleum Reserve (SPR) Imports	Crude Oil Exports	Primary Crude Oil Stocks[1,3,4]	Strategic Petroleum Reserve (SPR) Stocks
		Thousand barrels per day						Thousand barrels	
1973	**AVERAGE**	**12,431**	**9,208**	**198**	**3,244**		**2**	**‡242,478**	
1974	**AVERAGE**	**12,133**	**8,774**	**193**	**3,477**		**3**	**‡265,020**	
1975	**AVERAGE**	**12,442**	**8,375**	**191**	**4,105**		**6**	**‡271,354**	
1976	**AVERAGE**	**13,416**	**8,132**	**173**	**5,287**		**8**	**‡285,471**	
1977	**AVERAGE**	**14,602**	**8,245**	**464**	**6,594**	**20**	**50**	**‡339,857**	**‡7,540**
1978	**AVERAGE**	**14,739**	**8,707**	**1,229**	**6,195**	**162**	**158**	**‡309,421**	**‡66,860**
1979	January	14,840	8,475	1,351	6,721	204	177	302,059	73,142
	February	14,314	8,525	1,266	6,344	179	288	302,374	78,166
	March	14,260	8,601	1,355	6,252	122	370	316,690	82,501
	April	14,571	8,553	1,346	6,145	66	260	319,075	83,867
	May	14,450	8,601	1,349	6,163	97	171	316,322	86,880
	June	14,806	8,432	1,246	6,582	65	235	325,860	88,567
	July	15,098	8,364	1,405	6,561	41	244	312,946	90,101
	August	14,967	8,548	1,433	6,774	35	245	320,965	91,189
	September	14,594	8,523	1,436	6,426	0	175	323,939	91,189
	October	14,423	8,621	1,480	6,890	0	179	344,854	[5]91,191
	November	14,537	8,761	1,613	6,228	0	264	347,415	91,191
	December	14,877	8,615	1,519	6,318	0	215	339,074	91,191
	AVERAGE	**14,648**	**8,552**	**1,401**	**6,452**	**67**	**235**		
1980	January	14,298	8,648	1,634	6,359	0	311	353,611	91,191
	February	14,189	8,696	1,630	5,936	0	310	361,648	91,191
	March	13,709	8,712	1,647	5,785	0	323	361,742	91,191
	April	13,484	8,688	1,649	5,555	0	216	379,352	91,191
	May	13,326	8,640	1,628	5,071	0	308	383,902	91,191
	June	13,705	8,547	1,626	5,480	0	365	382,035	91,191
	July	13,251	8,555	1,612	4,645	0	238	379,280	91,191
	August	13,011	8,422	1,612	4,723	0	78	387,605	91,191
	September	13,312	8,619	1,610	4,653	54	322	375,989	92,824
	October	12,777	8,536	1,588	4,570	131	309	378,488	96,645
	November	13,119	8,499	1,561	4,524	142	289	372,811	102,320
	December	13,648	8,609	1,602	4,848	198	343	357,702	107,800
	AVERAGE	**13,483**	**8,597**	**1,617**	**5,177**	**44**	**284**		
1981	January†	13,234	8,550	1,611	4,790	106	339	374,825	112,490
	February†	12,851	8,611	1,628	4,731	80	198	385,098	116,057
	March†	R12,399	8,576	1,628	R4,341	140	210	R396,008	120,860
	April†	*12,450*	*8,466*	*1,614*	*3,980*	NA	NA	*398,515*	NA
	AVERAGE	**12,733**	**8,550**	**1,620**	**4,458**	**NA**	**NA**		

Geographic coverage: the 50 United States and District of Columbia.
[1]Includes lease condensate.
[2]Includes Alaskan production.
[3]Excludes SPR. Strategic Petroleum Reserve storage began in October 1977.
[4]Beginning in January 1981, Alaskan crude oil in transit to the United States are included in Primary Crude Oil Stocks.
[5]Indicates an adjustment in reported barrels in storage.
Estimated data in italics. These are likely to be revised.
‡Total as of December 31.
†Preliminary data. R=Revised data. NA=Not available.
Sources: •See Sources on the last page of this section.

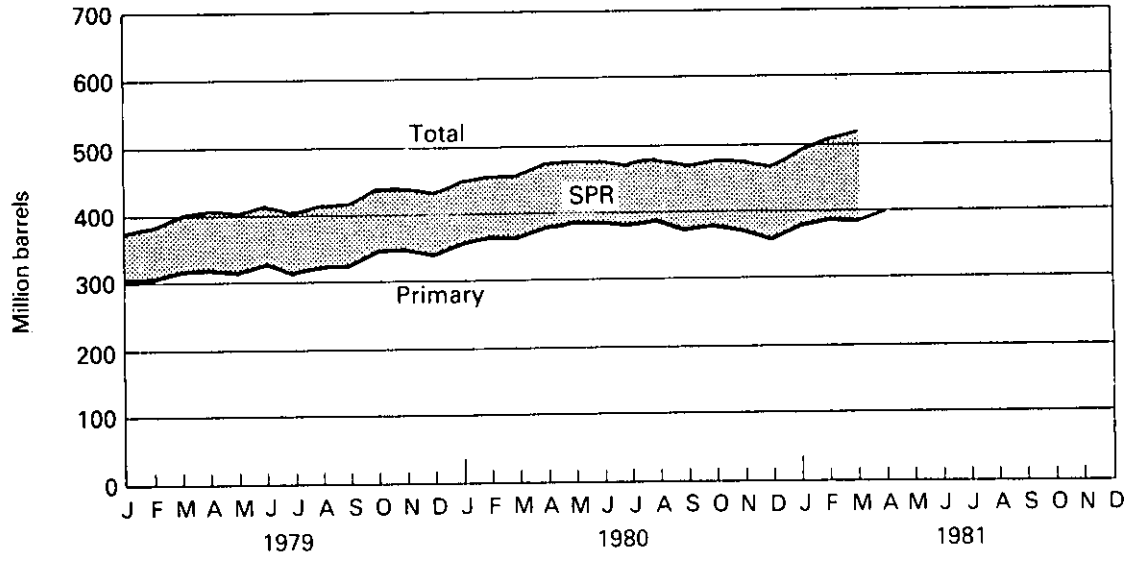
Petroleum

Crude Oil

Production, Refinery Input and Imports



Stocks



Petroleum

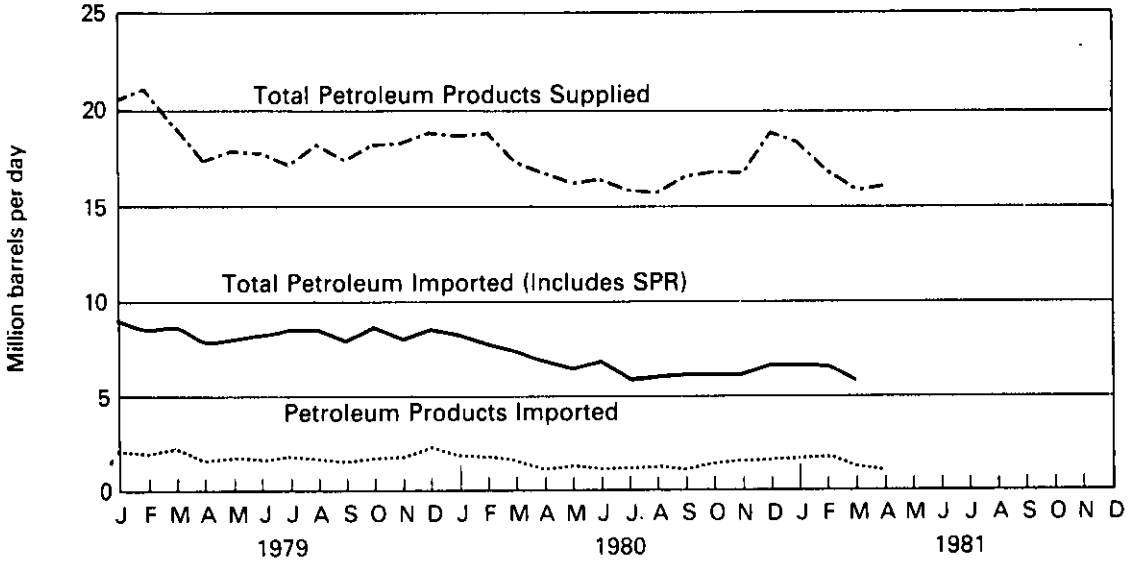
		Total Petroleum Products[1]			Total Crude Oil and Petroleum Products Trade				
		Products Supplied[1]	Product Imports[2]	Product Exports	Total Imports (Excluding SPR)	SPR Imports[3]	Total Imports (Including SPR)[3]	Total Exports	Net Imports
		Thousand barrels per day			Thousand barrels per day				
1973	**AVERAGE**	**17,308**	**3,012**	**229**	**6,256**			**231**	**6,025**
1974	**AVERAGE**	**16,653**	**2,635**	**218**	**6,112**			**221**	**5,892**
1975	**AVERAGE**	**16,322**	**1,951**	**204**	**6,056**			**209**	**5,846**
1976	**AVERAGE**	**17,461**	**2,026**	**215**	**7,313**			**223**	**7,090**
1977	**AVERAGE**	**18,431**	**2,193**	**193**	**8,787**	**20**	**8,807**	**243**	**8,565**
1978	**AVERAGE**	**18,847**	**2,008**	**204**	**8,202**	**162**	**8,363**	**362**	**8,002**
1979	January	20,586	2,223	215	8,944	204	9,148	392	8,756
	February	21,288	2,069	198	8,413	179	8,591	486	8,105
	March	19,322	2,386	241	8,638	122	8,760	611	8,150
	April	17,434	1,682	234	7,828	66	7,893	493	7,400
	May	17,801	1,830	257	7,993	97	8,091	429	7,662
	June	17,786	1,680	233	8,262	65	8,327	468	7,859
	July	17,144	1,956	242	8,517	41	8,559	486	8,072
	August	18,149	1,781	221	8,555	35	8,590	466	8,124
	September	17,400	1,597	239	8,023	0	8,023	414	7,609
	October	18,176	1,798	246	8,688	0	8,688	425	8,263
	November	18,313	1,913	246	8,141	0	8,141	510	7,631
	December	18,922	2,310	256	8,628	0	8,628	471	8,157
	AVERAGE	**18,513**	**1,937**	**236**	**8,389**	**67**	**8,456**	**471**	**7,985**
1980	January	18,656	1,983	228	8,342	0	8,342	539	7,803
	February	18,815	1,911	227	7,847	0	7,847	536	7,311
	March	17,385	1,724	243	7,509	0	7,509	566	6,943
	April	16,724	1,430	241	6,985	0	6,985	457	6,528
	May	16,143	1,478	266	6,549	0	6,549	573	5,975
	June	16,214	1,413	288	6,893	0	6,893	654	6,239
	July	15,962	1,401	292	6,046	0	6,046	530	5,516
	August	15,727	1,379	241	6,102	0	6,102	319	5,784
	September	16,548	1,475	235	6,129	54	6,183	557	5,626
	October	16,911	1,603	288	6,173	131	6,303	598	5,706
	November	16,694	1,729	260	6,252	142	6,395	549	5,846
	December	18,354	1,812	279	6,660	198	6,858	622	6,236
	AVERAGE	**17,006**	**1,611**	**258**	**6,787**	**44**	**6,831**	**542**	**6,290**
1981	January†	18,132	1,827	202	6,617	106	6,723	540	6,183
	February†	16,773	1,814	354	6,540	89	6,620	552	6,068
	March†	R15,569	R1,404	351	R5,746	140	5,885	561	5,324
	April†	*15,994*	*1,148*	NA	*5,128*	NA	NA	NA	NA
	AVERAGE	**16,618**	**1,545**	**NA**	**6,002**	**NA**	**NA**	**NA**	**NA**

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]See Definitions.
[2]Includes plant condensate, natural gasoline and unfinished oils.
[3]Strategic Petroleum Reserve storage began in October 1977.
Estimated data in italics. These are likely to be revised.
†Preliminary data. R = Revised data. NA = Not available.
Sources: •See Sources on the last page of this section.

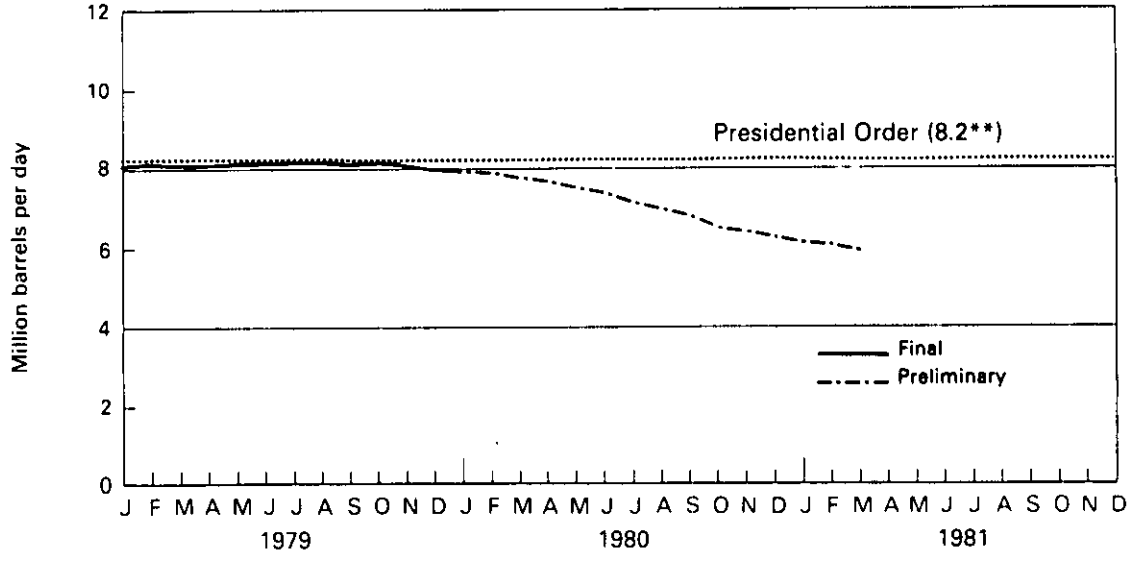
Petroleum

Products Supplied and Imports

Products Supplied and Imports



Net Imports* of Crude Oil and Refined Products
(Average for the Latest 12 Months)



* Includes SPR.
** In his January 1980 State of the Union address, President Carter announced his revised net import ceiling of 8.2 million barrels per day for 1980. The figure was previously 8.5 million barrels per day.

Petroleum

Petroleum Imports from OPEC Sources

	Algeria	Indonesia	Iran	Libya	Nigeria	Saudi Arabia	United Arab Emirates	Venezuela	Other OPEC[1]	Total OPEC	Arab Members of OPEC[2]
						Thousand barrels per day					
1973											
AVERAGE	**136**	**213**	**223**	**164**	**459**	**486**	**71**	**1,135**	**106**	**2,993**	**915**
1974											
AVERAGE	**190**	**300**	**469**	**4**	**713**	**461**	**74**	**979**	**88**	**3,280**	**752**
1975											
AVERAGE	**282**	**390**	**280**	**232**	**762**	**715**	**117**	**702**	**122**	**3,601**	**1,383**
1976											
AVERAGE	**432**	**539**	**298**	**453**	**1,025**	**1,230**	**254**	**700**	**134**	**5,066**	**2,424**
1977											
AVERAGE	**559**	**541**	**535**	**723**	**1,143**	**1,380**	**335**	**690**	**287**	**6,193**	**3,185**
1978											
AVERAGE	**649**	**573**	**555**	**654**	**919**	**1,144**	**385**	**645**	**226**	**5,751**	**2,963**
1979											
January	669	503	187	754	1,159	1,563	341	661	229	6,066	3,425
February	746	521	86	614	984	1,628	310	749	171	5,810	3,404
March	579	419	22	598	1,403	1,310	298	851	272	5,754	2,950
April	687	376	52	771	989	1,484	285	619	130	5,392	3,311
May	755	343	197	651	1,118	1,273	292	671	147	5,447	3,024
June	587	391	318	765	932	1,258	282	609	364	5,507	3,185
July	591	427	425	666	1,000	1,443	272	674	183	5,682	3,083
August	669	499	516	657	1,183	1,332	247	731	261	6,097	3,052
September	510	359	373	621	1,103	1,281	270	726	200	5,443	2,843
October	615	452	496	762	988	1,271	234	617	304	5,738	3,086
November	621	351	549	476	1,007	1,163	307	693	146	5,312	2,589
December	603	403	414	559	1,080	1,279	242	680	130	5,390	2,743
AVERAGE	**636**	**420**	**304**	**658**	**1,080**	**1,356**	**281**	**690**	**212**	**5,637**	**3,056**
1980											
January	484	433	80	617	1,054	1,562	202	583	179	5,195	3,001
February	639	317	9	603	1,013	1,399	304	543	140	4,967	3,016
March	472	405	0	654	924	1,390	370	352	175	4,742	2,979
April	556	374	0	683	722	1,294	150	339	228	4,346	2,866
May	441	360	0	468	955	1,149	172	405	132	4,083	2,314
June	497	331	0	561	998	1,327	178	409	105	4,408	2,598
July	537	308	0	492	721	1,179	158	411	55	3,861	2,378
August	432	289	0	431	770	1,136	142	397	98	3,695	2,205
September	375	299	0	505	735	1,112	107	425	111	3,670	2,185
October	463	348	0	476	716	1,043	182	482	52	3,762	2,178
November	493	348	0	500	599	1,201	105	595	78	3,920	2,339
December	417	280	0	641	958	1,300	83	610	101	4,391	2,460
AVERAGE	**483**	**341**	**8**	**552**	**847**	**1,257**	**179**	**463**	**121**	**4,251**	**2,541**
1981											
January†	324	407	0	485	908	1,285	93	550	27	4,079	2,187
February†	381	396	0	462	867	1,116	93	460	96	3,871	2,057
March†	352	324	0	464	771	1,027	47	353	54	3,393	1,890
AVERAGE	**351**	**375**	**0**	**471**	**848**	**1,144**	**77**	**454**	**58**	**3,778**	**2,044**

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

Petroleum

Petroleum Imports from Non-OPEC Sources

	Bahamas	Canada	Mexico	Netherlands Antilles	Puerto Rico	Trinidad and Tobago	Virgin Islands	Other[1]	Total
				Thousand barrels per day					
1973									
AVERAGE	**174**	**1,325**	**16**	**585**	**99**	**255**	**329**	**480**	**3,263**
1974									
AVERAGE	**164**	**1,070**	**8**	**511**	**90**	**251**	**391**	**347**	**2,832**
1975									
AVERAGE	**152**	**846**	**71**	**332**	**90**	**242**	**406**	**314**	**2,454**
1976									
AVERAGE	**118**	**599**	**87**	**275**	**88**	**274**	**422**	**382**	**2,247**
1977									
AVERAGE	**171**	**517**	**179**	**211**	**105**	**289**	**466**	**676**	**2,614**
1978									
AVERAGE	**160**	**467**	**318**	**229**	**94**	**253**	**429**	**663**	**2,613**
1979									
January	159	565	595	238	109	151	477	787	3,082
February	106	561	415	255	68	191	421	764	2,782
March	94	616	397	314	64	215	562	746	3,007
April	129	578	302	179	65	156	475	619	2,502
May	135	558	403	191	102	216	382	658	2,644
June	138	469	458	172	106	169	414	895	2,820
July	193	490	407	209	117	168	451	840	2,877
August	157	464	439	246	92	238	357	499	2,493
September	149	464	431	276	86	166	286	722	2,580
October	151	486	531	242	60	200	403	876	2,950
November	169	583	429	196	110	161	438	743	2,829
December	178	619	454	257	120	240	508	862	3,238
AVERAGE	**147**	**538**	**439**	**231**	**92**	**190**	**431**	**751**	**2,819**
1980									
January	175	569	545	289	56	239	467	806	3,147
February	111	540	463	205	95	192	522	752	2,880
March	124	460	460	184	81	189	443	827	2,767
April	56	411	546	231	63	143	418	771	2,639
May	77	419	576	184	88	221	303	597	2,466
June	77	408	627	196	91	160	315	611	2,485
July	43	378	434	242	90	180	365	454	2,185
August	62	319	646	255	85	159	254	627	2,407
September	58	403	549	213	52	205	343	690	2,513
October	70	473	604	238	107	114	359	577	2,542
November	22	470	458	267	108	157	391	602	2,475
December	54	502	445	212	109	149	423	573	2,467
AVERAGE	**78**	**446**	**530**	**226**	**85**	**176**	**383**	**656**	**2,580**
1981									
January†	39	516	388	197	89	150	494	770	2,644
February†	84	488	420	227	46	163	481	840	2,749
March†	66	412	460	227	45	93	370	819	2,492
AVERAGE	**63**	**471**	**422**	**217**	**60**	**135**	**447**	**809**	**2,624**

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
Beginning in October 1977 Strategic Petroleum Reserve imports are included.
[1]Includes Non-OPEC Arab, Western Europe, Angola, U.S.S.R., Rumania, other Western Hemisphere and other Eastern Hemisphere.
†Preliminary data. R = Revised data.
Sources: •See Sources on the last page of this section.

Petroleum

Motor Gasoline

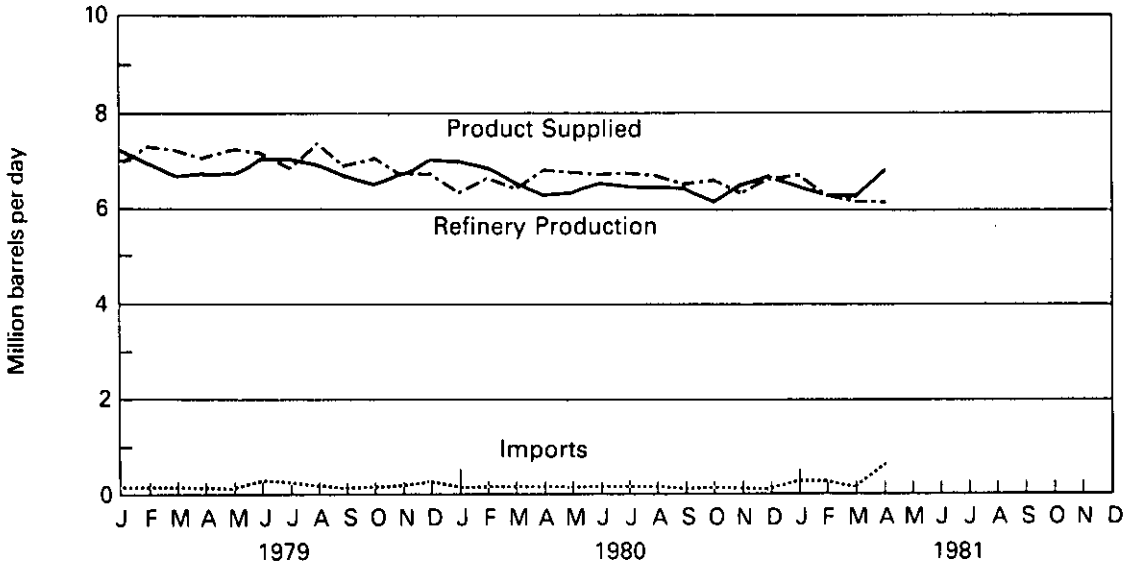
		Product Supplied[1]				Imports[1,2]			Stocks[1,2,3]	
		Total	Unleaded	Unleaded Percent of Total	Refinery Production[1,3]	Total Motor Gasoline	Finished Motor Gasoline	Exports	Total Motor Gasoline	Finished Motor Gasoline
		Thousand barrels per day							Thousand barrels	
1973	**AVERAGE**	**6,674**	**NA**	**NA**	**6,527**	**134**		**4**	**‡209,395**	
1974	**AVERAGE**	**6,537**	**NA**	**NA**	**6,358**	**204**		**2**	**‡218,346**	
1975	**AVERAGE**	**6,675**	**NA**	**NA**	**6,518**	**184**		**2**	**‡234,925**	
1976	**AVERAGE**	**6,978**	**NA**	**NA**	**6,838**	**131**		**3**	**‡231,387**	
1977	**AVERAGE**	**7,177**	**1,976**	**27.5**	**7,031**	**217**		**2**	**‡257,578**	
1978	**AVERAGE**	**7,412**	**2,521**	**34.0**	**7,167**	**190**		**1**	**‡237,956**	
1979	January	6,830	2,609	38.2	7,246	179		1	256,894	
	February	7,254	2,715	37.4	6,924	160		1	252,478	
	March	7,229	2,733	37.8	6,654	168		(s)	240,007	
	April	7,055	2,786	39.5	6,770	156		1	236,600	
	May	7,213	2,751	38.1	6,792	145		(s)	228,515	
	June	7,191	2,787	38.8	7,001	261		(s)	231,014	
	July	6,902	2,789	40.4	7,002	222		(s)	241,469	
	August	7,330	2,970	40.5	6,882	148		1	232,734	
	September	6,881	2,815	40.9	6,626	135		(s)	229,542	
	October	7,020	2,802	39.9	6,483	150		(s)	218,065	
	November	6,791	2,928	43.1	6,673	182		1	220,472	
	December	6,730	2,890	42.9	6,988	263		(s)	237,082	
	AVERAGE	**7,034**	**2,798**	**39.8**	**6,837**	**181**		**(s)**		
1980	January	6,335	2,718	42.9	6,977	141		1	262,134	
	February	6,594	2,969	45.0	6,851	153		(s)	274,422	
	March	6,411	3,032	47.3	6,512	154		(s)	282,688	
	April	6,799	3,021	44.4	6,268	152		1	271,729	
	May	6,726	2,980	44.3	6,294	132		1	262,938	
	June	6,661	3,099	46.5	6,552	148		1	264,583	
	July	6,735	3,131	46.5	6,446	149		3	260,711	
	August	6,646	3,135	47.2	6,437	141		1	259,013	
	September	6,511	3,054	46.9	6,369	106		7	258,135	
	October	6,662	3,110	46.7	6,124	152		1	246,422	
	November	6,237	3,123	50.1	6,456	126		(s)	257,059	
	December	6,628	3,421	51.6	6,632	121		1	261,327	
	AVERAGE	**6,579**	**3,067**	**46.6**	**6,492**	**140**		**1**		
1981	January†	6,401	3,102	48.5	6,672	148	137	(s)	277,724	R226,946
	February†	6,306	3,115	49.4	6,244	117	111	1	284,182	228,672
	March†	R6,247	3,098	49.6	R6,150	R189	R163	(s)	R284,427	231,063
	April†	*6,804*	NA	NA	*6,137*	*100*	NA	NA	*265,597*	NA
	AVERAGE	**6,440**	**NA**	**NA**	**6,303**	**128**	**NA**	**NA**		

Geographic coverage: the 50 United States and District of Columbia.
[1]Beginning in January 1981, EIA modified its monthly petroleum surveys. Non-refinery blenders were added to the reporting universe and gasohol included as a motor gasoline component. On the new basis motor gasoline production and product supplied during the last half of 1980 would have averaged 289,000 barrels per day higher than shown.
[2]Total motor gasoline includes finished motor gasoline and blending components.
[3]See Definitions.
Estimated data in italics. These are likely to be revised.
‡Total as of December 31.
†Preliminary data. R = Revised data. NA = Not available. (s) = less than 500 barrels per day.
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.
Sources: • See Sources on the last page of this section.

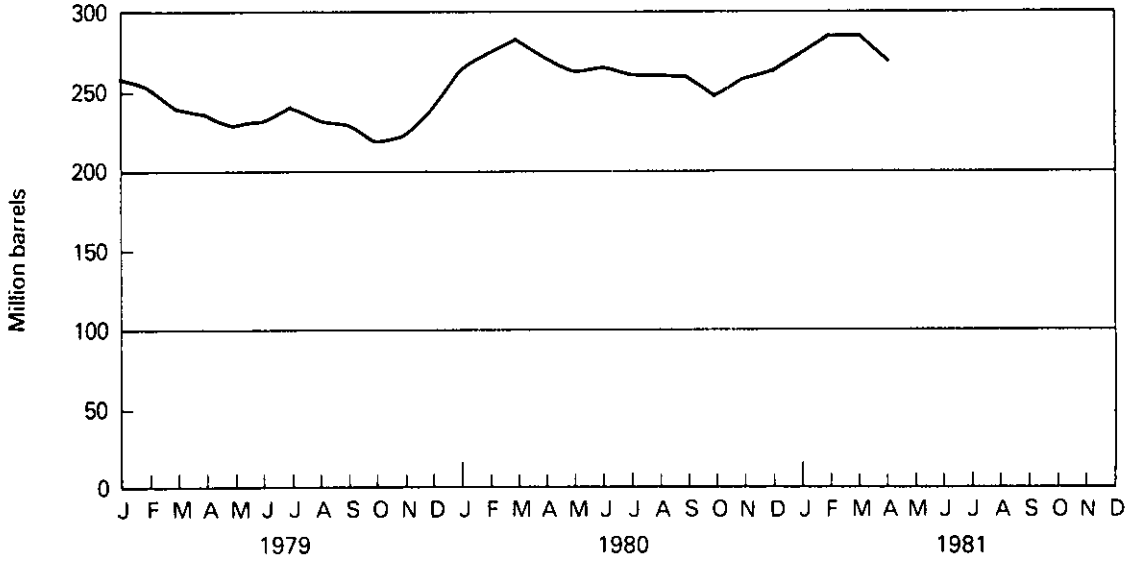
Petroleum

Motor Gasoline

Product Supplied, Refinery Production and Imports



Stocks



Petroleum

Jet Fuel

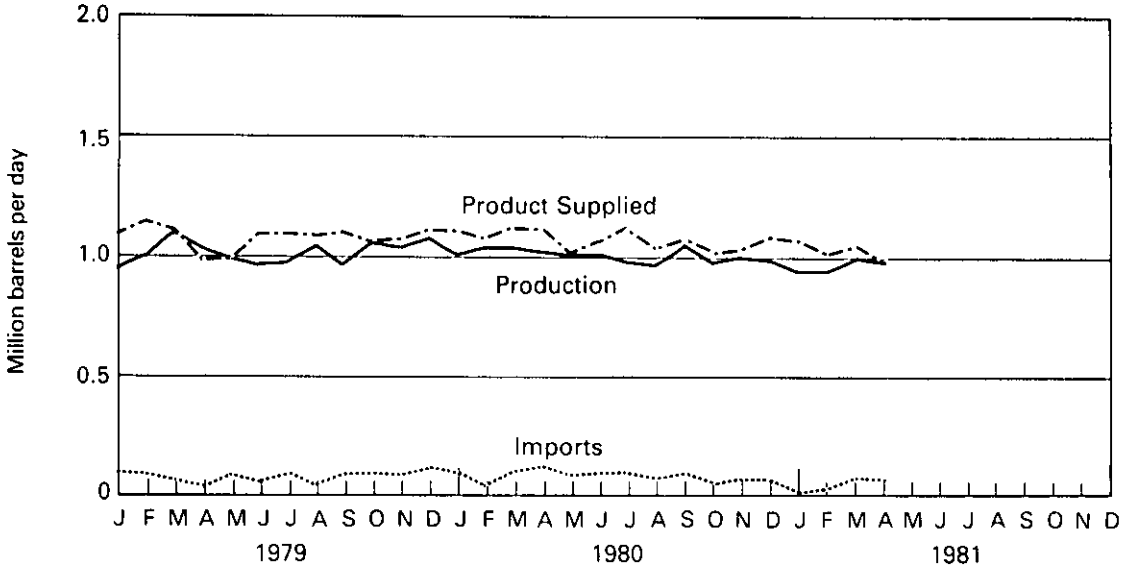
		Product Supplied	Refinery Production	Imports	Exports	Stocks
		Thousand barrels per day				Thousand barrels
1973	**AVERAGE**	**1,059**	**859**	**212**	**4**	**‡28,544**
1974	**AVERAGE**	**993**	**836**	**163**	**3**	**‡29,435**
1975	**AVERAGE**	**1,001**	**871**	**133**	**2**	**‡30,380**
1976	**AVERAGE**	**987**	**918**	**76**	**2**	**‡32,085**
1977	**AVERAGE**	**1,039**	**973**	**75**	**2**	**‡34,548**
1978	**AVERAGE**	**1,057**	**970**	**86**	**1**	**‡33,665**
1979	January	1,096	950	97	1	32,114
	February	1,149	998	94	1	30,475
	March	1,101	1,098	61	1	32,267
	April	980	1,043	49	1	35,581
	May	989	980	78	1	37,698
	June	1,095	958	57	1	35,301
	July	1,094	965	90	1	34,063
	August	1,085	1,040	49	1	34,136
	September	1,099	958	84	1	32,420
	October	1,055	1,046	90	(s)	34,920
	November	1,070	1,029	83	1	36,161
	December	1,103	1,072	108	1	38,520
	AVERAGE	**1,076**	**1,012**	**78**	**1**	
1980	January	1,101	1,004	95	1	38,412
	February	1,072	1,026	43	2	38,258
	March	1,116	1,031	99	2	38,661
	April	1,105	1,023	107	3	39,339
	May	1,015	1,001	79	2	41,310
	June	1,057	1,004	86	1	42,283
	July	1,110	974	93	2	40,902
	August	1,043	959	67	1	40,331
	September	1,056	1,041	77	1	42,159
	October	1,037	977	93	1	43,177
	November	1,029	988	66	1	43,921
	December	1,083	962	60	1	42,031
	AVERAGE	**1,069**	**999**	**81**	**1**	
1981	January†	1,058	949	12	1	39,199
	February†	1,014	943	38	1	38,247
	March†	R1,041	R989	R68	(s)	R38,744
	April†	*965*	*972*	*60*	NA	*41,128*
	AVERAGE	**1,020**	**964**	**45**	**NA**	

Geographic coverage: the 50 United States and District of Columbia.
Estimated data in italics. These are likely to be revised.
‡Total as of December 31.
†Preliminary data. R=Revised data. NA=Not available.
(s)=Less than 500 barrels per day.
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.
Sources: •See Sources on the last page of this section.

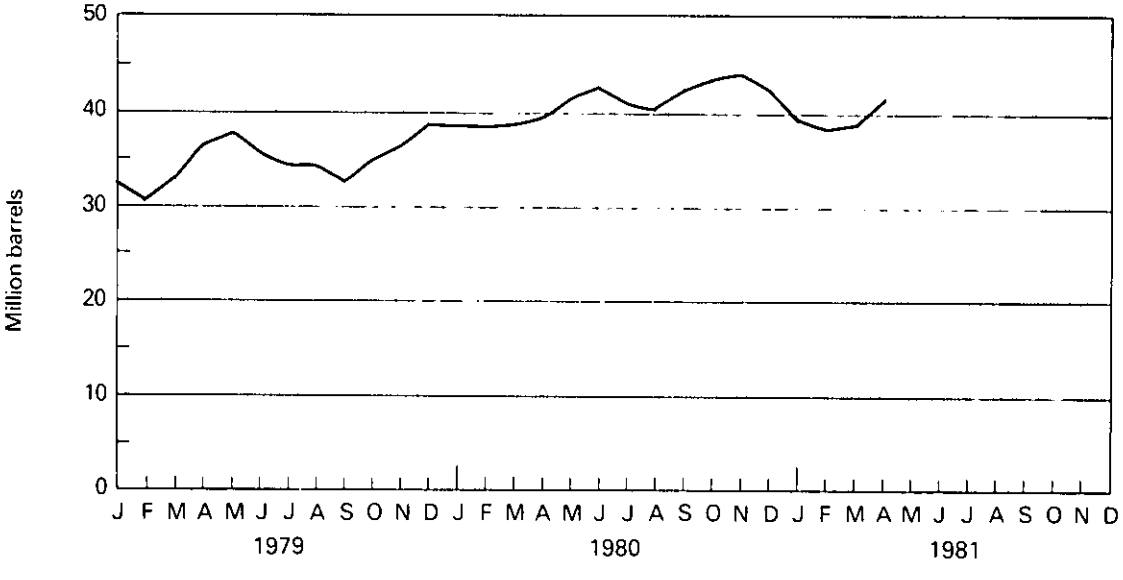
Petroleum

Jet Fuel

Product Supplied, Refinery Production and Imports



Stocks



Petroleum

Distillate Fuel Oil

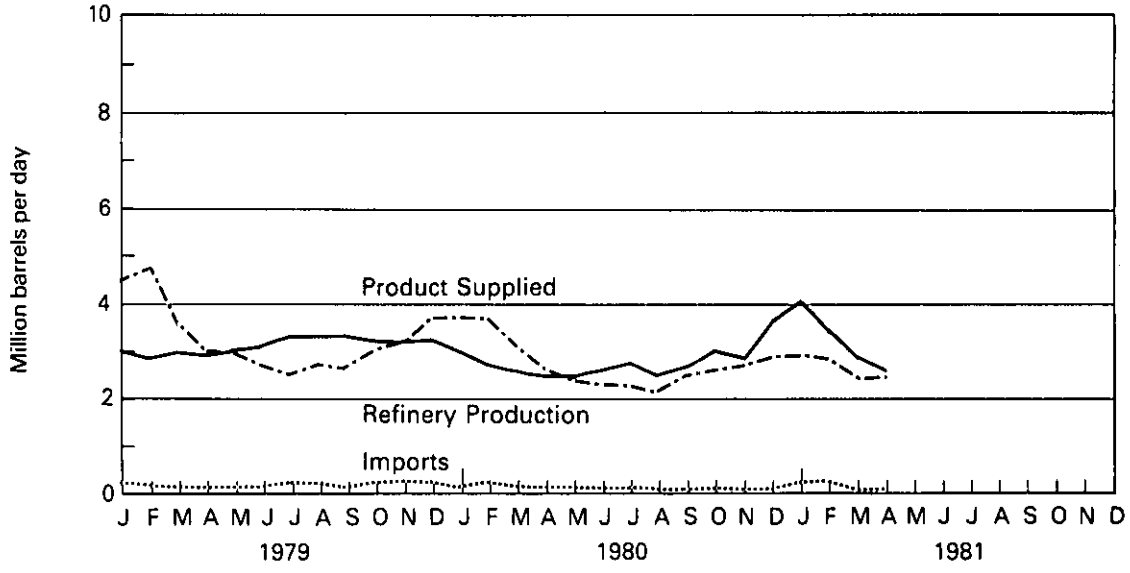
		Product Supplied[1]	Refinery Production[1,2]	Imports	Exports	Stocks[2]
		Thousand barrels per day				Thousand barrels
1973	**AVERAGE**	**3,092**	**2,820**	**392**	**9**	**‡196,421**
1974	**AVERAGE**	**2,948**	**2,668**	**289**	**2**	**‡200,029**
1975	**AVERAGE**	**2,851**	**2,653**	**155**	**1**	**‡208,787**
1976	**AVERAGE**	**3,133**	**2,924**	**146**	**1**	**‡185,948**
1977	**AVERAGE**	**3,352**	**3,277**	**250**	**1**	**‡250,260**
1978	**AVERAGE**	**3,432**	**3,167**	**173**	**3**	**‡216,439**
1979	January	4,581	3,043	226	1	175,823
	February	4,812	2,888	196	7	127,275
	March	3,664	3,019	176	1	112,275
	April	3,016	2,945	150	2	115,124
	May	2,998	3,066	185	(s)	123,042
	June	2,708	3,153	180	15	141,367
	July	2,563	3,305	225	7	171,203
	August	2,761	3,321	218	(s)	195,365
	September	2,647	3,354	126	2	220,377
	October	3,119	3,251	211	1	231,056
	November	3,247	3,239	193	(s)	236,641
	December	3,708	3,221	229	(s)	228,712
	AVERAGE	**3,311**	**3,152**	**193**	**3**	
1980	January	3,732	3,023	179	7	212,126
	February	3,706	2,778	221	8	191,464
	March	3,171	2,564	179	19	177,659
	April	2,630	2,462	147	2	177,006
	May	2,402	2,471	126	1	183,072
	June	2,331	2,645	108	(s)	195,790
	July	2,225	2,688	117	3	213,756
	August	2,136	2,462	77	(s)	226,305
	September	2,590	2,687	101	(s)	232,310
	October	2,918	2,589	115	(s)	225,711
	November	2,916	2,699	133	(s)	223,261
	December	3,646	2,892	166	(s)	205,113
	AVERAGE	**2,865**	**2,663**	**139**	**3**	
1981	January†	4,074	2,997	227	(s)	180,237
	February†	3,431	2,813	325	17	171,878
	March†	R2,893	R2,485	R140	(s)	R163,853
	April†	*2,632*	*2,482*	*130*	NA	*162,856*
	AVERAGE	**3,258**	**2,693**	**214**	**NA**	

Geographic coverage: the 50 United States and District of Columbia.
[1]Beginning in January 1981, EIA modified its monthly petroleum surveys. On the new basis distillate fuel oil production and product supplied in 1980 would have been an average of 105,000 barrels per day higher than shown.
[2]See Definitions.
Estimated data in italics. These are likely to be revised.
‡Total as of December 31.
†Preliminary data. R=Revised data. NA=Not available.
(s)=Less than 500 barrels per day.
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.
Sources: •See Sources on the last page of this section.

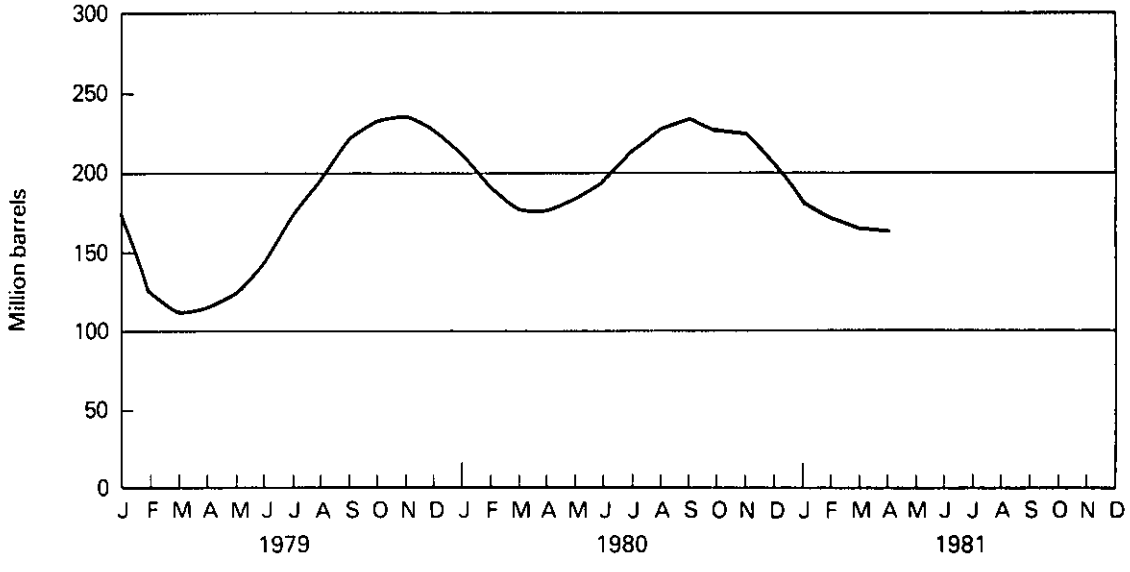
Petroleum

Distillate Fuel Oil

Product Supplied, Refinery Production and Imports



Stocks



Petroleum

Residual Fuel Oil

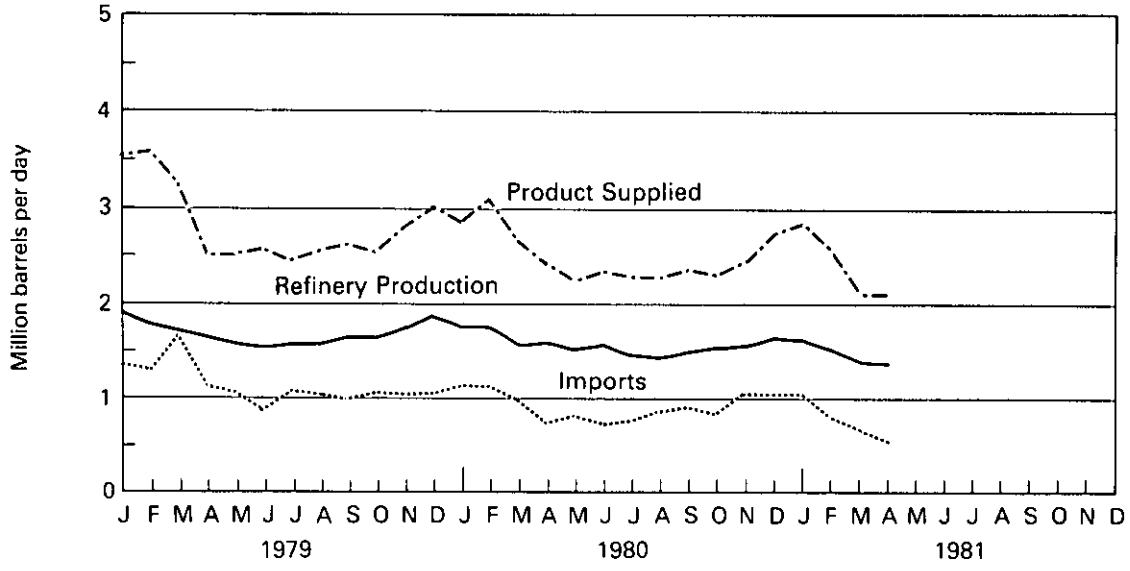
		Product Supplied[1]	Refinery Production[1]	Imports	Exports	Stocks
		Thousand barrels per day				Thousand barrels
1973	**AVERAGE**	**2,822**	**971**	**1,853**	**23**	**‡53,480**
1974	**AVERAGE**	**2,639**	**1,070**	**1,587**	**14**	**‡59,694**
1975	**AVERAGE**	**2,462**	**1,235**	**1,223**	**15**	**‡74,126**
1976	**AVERAGE**	**2,801**	**1,377**	**1,413**	**12**	**‡72,344**
1977	**AVERAGE**	**3,071**	**1,754**	**1,359**	**6**	**‡89,993**
1978	**AVERAGE**	**3,023**	**1,667**	**1,355**	**13**	**‡90,194**
1979	January	3,560	1,912	1,371	6	81,853
	February	3,595	1,792	1,300	10	67,899
	March	3,239	1,719	1,642	14	71,652
	April	2,507	1,639	1,134	2	79,959
	May	2,503	1,586	1,051	8	84,261
	June	2,583	1,548	880	8	79,816
	July	2,451	1,575	1,065	5	85,907
	August	2,550	1,584	1,023	14	87,622
	September	2,609	1,627	979	2	87,789
	October	2,540	1,629	1,042	18	91,611
	November	2,815	1,736	1,046	5	90,799
	December	3,013	1,894	1,278	14	95,598
	AVERAGE	**2,826**	**1,687**	**1,151**	**9**	
1980	January	2,865	1,766	1,132	5	97,153
	February	3,099	1,770	1,119	17	90,959
	March	2,650	1,581	971	2	88,269
	April	2,434	1,591	769	[2]40	85,219
	May	2,234	1,507	812	20	87,639
	June	2,324	1,575	749	14	87,657
	July	2,287	1,480	787	60	85,605
	August	2,287	1,444	875	2	86,949
	September	2,360	1,497	906	21	87,876
	October	2,224	1,513	871	70	90,989
	November	2,430	1,577	1,024	88	93,814
	December	2,747	1,661	1,025	62	90,344
	AVERAGE	**2,493**	**1,577**	**920**	**33**	
1981	January†	2,836	1,609	1,015	65	82,863
	February†	2,578	1,562	956	125	78,214
	March†	R2,097	R1,427	R699	145	R75,068
	April†	*2,105*	*1,393*	*572*	NA	*69,537*
	AVERAGE	**2,402**	**1,497**	**809**	**NA**	

Geographic coverage: the 50 United States and District of Columbia.
[1]Beginning in January 1981, EIA modified its monthly petroleum surveys. On the new basis residual fuel oil production and product supplied in 1980 would have been an average of 54,000 barrels per day higher than shown.
[2]Beginning in April 1980, residual fuel oil exports increased due to shipments of high sulfur fuel to the Carribean to be desulfurized and returned to the United States. In July 1980, additional exports of high sulfur fuel oil began to be shipped to Asia.
Estimated data in italics. These are likely to be revised.
‡Total as of December 31.
†Preliminary data. R=Revised data. NA=Not available.
Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.
Sources: •See Sources on the last page of this section.

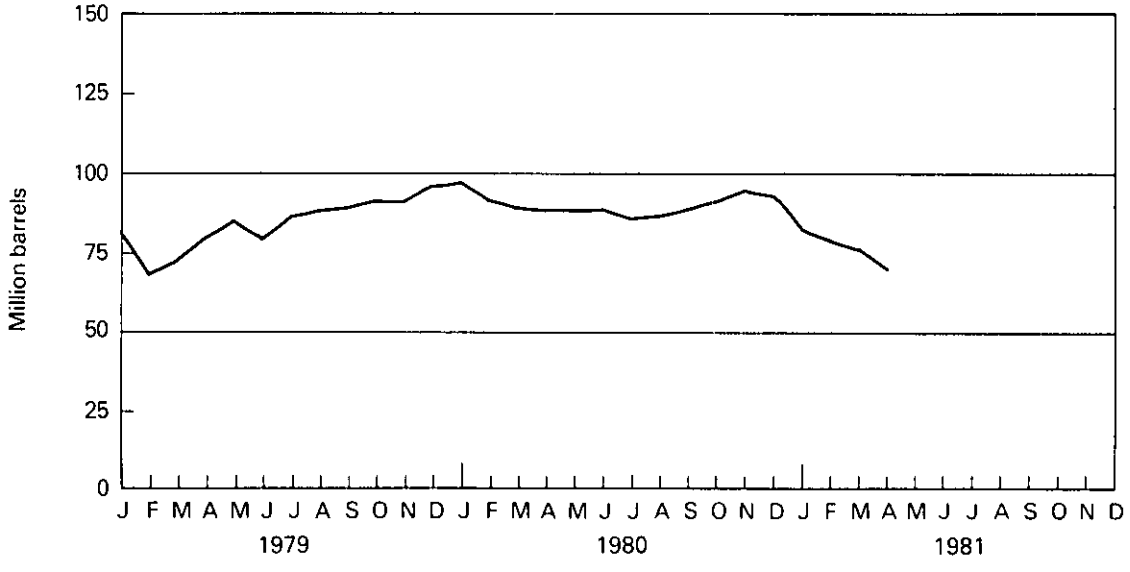
Petroleum

Residual Fuel Oil

Product Supplied, Refinery Production and Imports



Stocks



Petroleum

Natural Gas Plant Liquids, Including Liquefied Refinery Gases

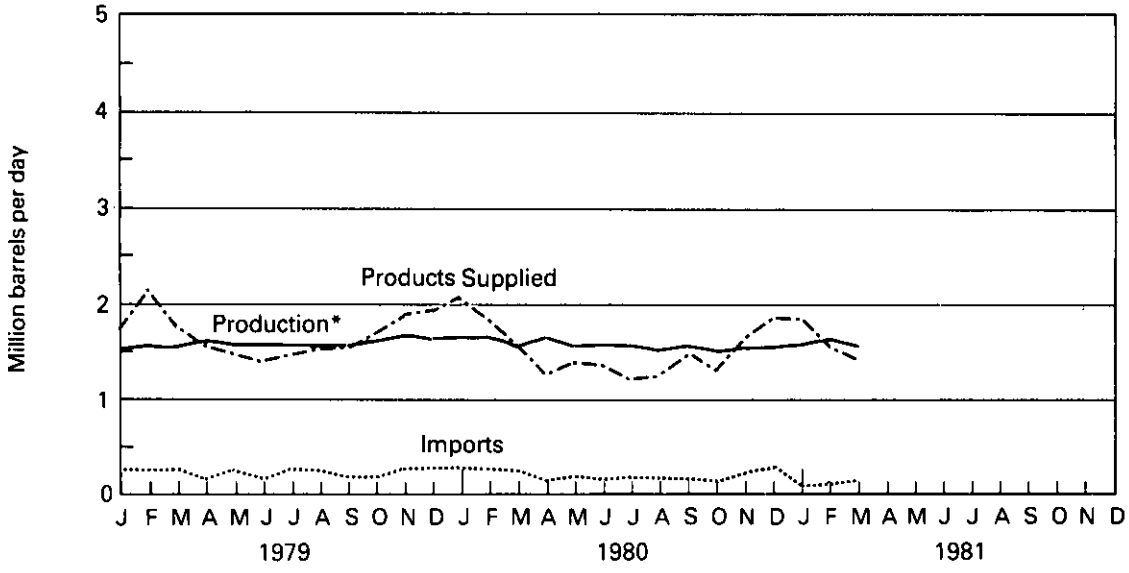
		Products Supplied[1]	Production[1]		Used at Refineries[1]	Imports	Stocks[1]
			At processing plants	At refineries			
		Thousand barrels per day					Thousand barrels
1973	**AVERAGE**	**1,454**	**1,738**	**375**	**815**	**239**	**‡106,659**
1974	**AVERAGE**	**1,422**	**1,688**	**338**	**746**	**212**	**‡120,175**
1975	**AVERAGE**	**1,352**	**1,633**	**311**	**710**	**185**	**‡132,653**
1976	**AVERAGE**	**1,407**	**1,603**	**340**	**725**	**196**	**‡124,518**
1977	**AVERAGE**	**1,427**	**1,618**	**352**	**673**	**203**	**‡144,902**
1978	**AVERAGE**	**1,416**	**1,567**	**355**	**639**	**139**	**[2]‡140,052**
1979	January	2,158	1,530	335	597	256	127,514
	February	2,101	1,561	316	572	252	111,824
	March	1,788	1,548	322	538	257	106,826
	April	1,522	1,611	341	469	160	110,066
	May	1,471	1,570	373	476	255	117,515
	June	1,379	1,571	356	455	175	125,231
	July	1,408	1,564	361	444	240	134,639
	August	1,501	1,575	363	461	236	140,825
	September	1,529	1,565	323	450	194	143,623
	October	1,701	1,607	321	506	193	140,533
	November	1,880	1,676	323	586	268	134,040
	December	1,930	1,626	343	572	273	125,289
	AVERAGE	**1,695**	**1,584**	**340**	**504**	**230**	
1980	January	2,021	1,647	338	698	282	110,378
	February	1,843	1,651	354	572	265	105,389
	March	1,573	1,569	342	518	224	106,070
	April	1,212	1,626	328	507	149	117,006
	May	1,376	1,555	325	428	187	124,615
	June	1,385	1,559	335	386	93	133,516
	July	1,218	1,513	325	455	178	143,618
	August	1,244	1,514	323	417	166	153,716
	September	1,463	1,510	314	463	168	155,181
	October	1,612	1,498	300	501	262	152,763
	November	1,697	1,568	324	528	240	149,277
	December	1,863	1,558	346	545	299	142,251
	AVERAGE	**1,542**	**1,564**	**329**	**502**	**218**	
1981	January†	1,809	1,596	332	620	200	132,285
	February†	1,580	1,641	384	556	205	134,358
	March†	1,363	1,556	312	480	146	139,039
	AVERAGE	**1,584**	**1,597**	**341**	**552**	**183**	

Geographic coverage: the 50 United States and District of Columbia.
[1]See Explanatory Note 7 and Definitions.
[2]EIA natural gas plant coverage was expanded in January 1979 to include approximately 80 more plants. Calculated on the new basis, December 1978 closing stocks totaled 147,548 thousand barrels.
‡Total as of December 31.
†Preliminary data. R = Revised data.
Sources: • 1973 through December 1980 are shown on last page of this section.
• January 1981 through March 1981: EIA "Monthly Petroleum Statistics Report."
• Sources for the *Energy Data Reports* are shown on the last page of this section.

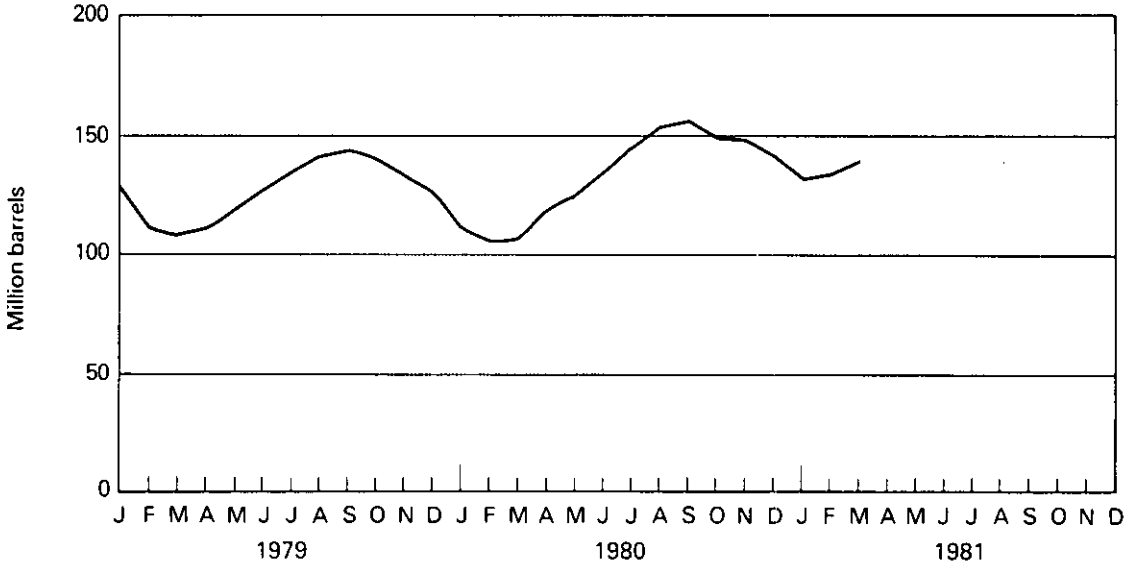
Petroleum

Natural Gas Plant Liquids

Products Supplied, Production and Imports



Stocks



*At processing plants.

Petroleum

Petroleum Primary Supply Balance

	1980				
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Year
	Thousand barrels per day				
Primary Supply					
Crude oil and lease condensate production	8,685	8,625	8,531	R8,548	R8,597
Natural gas plant liquids production	1,622	1,580	1,513	R1,541	R1,564
Other hydrocarbon supply	56	49	44	42	48
Crude oil imported[1]	6,029	5,366	4,692	R4,806	R5,220
Petroleum products imported[2]	1,872	1,440	1,418	R1,714	R1,611
Total new primary supply	18,263	17,059	16,197	R16,652	R17,040
Processing gain	629	567	593	R591	595
Stock change—all oils[3]	-1	+753	+393	R-557	R+146
Total net primary supply	18,893	16,873	16,398	R17,800	R17,489
Unaccounted for crude oil[4]	-57	+61	+158	R+131	R+73
Disposition					
Crude oil and petroleum products exported	547	562	468	590	542
Crude oil losses	15	14	14	14	14
Total products supplied[5]	18,274	16,358	16,074	R17,327	R17,006
Total disposition	18,836	16,934	16,556	R17,931	R17,562

	1981
	1st Qtr.†
Primary Supply	
Crude oil and lease condensate production	8,578
Natural gas plant liquids production	1,597
Other hydrocarbon supply	39
Crude oil imported[1]	4,726
Petroleum products imported[2]	1,677
Total new primary supply	16,618
Processing gain	578
Stock change—all oils[3]	-7
Total net primary supply	17,203
Unaccounted for crude oil[4]	+188
Disposition	
Crude oil and petroleum products exported	551
Crude oil losses	14
Total products supplied[5]	16,826
Total disposition	17,391

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Includes crude oil imported for the Strategic Petroleum Reserve.
[2]Includes plant condensate, natural gasoline and unfinished oils.
[3]Includes petroleum stored in the Strategic Petroleum Reserve.
[4]Balancing item resulting from statistical inconsistencies.
[5]Includes international bunkers.
†Preliminary data. R = Revised data.
Sources: • 1979: Energy Information Administration (EIA) *Energy Data Report,* "Petroleum Statement, Annual."
• January 1980 through December 1980: Energy Information Administration (EIA) *Energy Data Reports,* "Petroleum Statement, Monthly."
• January 1981 through March 1981: EIA, "Monthly Petroleum Statistics Report".
• Sources for the *Energy Data Reports* and the "Monthly Petroleum Statistics Report" are shown on the last page of this section.

Sources for the Petroleum Section

- 1973 through 1976: Bureau of Mines *Mineral Industry Surveys,* "Petroleum Statement, Annual" (except unleaded gasoline) and "PAD Districts Supply/Demand, Annual."
- Unleaded gasoline: — Energy Information Administration (EIA) "Monthly Petroleum Statistics Report."
- 1977 through 1979: EIA *Energy Data Reports,* "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual".
- 1980: EIA *Energy Data Reports,* "Petroleum Statement, Monthly" and "PAD Districts Supply/Demand, Monthly."
- January 1981 through March 1981: EIA "Monthly Petroleum Statistics Report".
- Data for the most recent month are estimates based on EIA weekly data (except domestic production).
- Domestic production for the most recent month is an EIA estimate based on historical data from State Conservation Agencies and the U.S. Geological Survey.
- Sources for the *Energy Data Reports* and the "Monthly Petroleum Statistics Report" are: EIA Forms EIA-64 (Natural Gas Liquids Operations Report), EIA-87 (Refinery Report), EIA-88 (Bulk Terminals Report), EIA-89 (Pipeline Report) and EIA-90 (Crude Oil Stock Report); Economic Regulatory Administration (ERA) Forms ERA-60 (Imports) and FEA P133 (Imports from Puerto Rico); Bureau of the Census IM 145 (Imports), EM 522 (Exports), and EM 594 (Exports); U.S. Geological Survey (Crude Production) and State Conservation Agencies(Crude Production).

Natural Gas

Consumption of natural gas in the United States during April 1981 was an estimated 1.5 trillion cubic feet (Tcf). This was 22.2 percent lower than in March 1981 and 5.0 percent less than in April 1980. Estimated consumption during the first 4 months of 1981 totaled 7.6 Tcf, 7.1 percent less than during the period January through April 1980.

Production of dry natural gas in April 1981 was an estimated 1.6 Tcf, 6.0 percent less than in March 1981 and 1.3 percent less than in April 1980. Output during the period January through April 1981 totaled 6.5 Tcf, 3.7 percent less than during the comparable 1980 period.

Imports of natural gas in April 1981 were an estimated 78 billion cubic feet (Bcf), 14.3 percent less than in the previous April. During the first 4 months of 1981, imports of natural gas totaled an estimated 316 Bcf, 26.3 percent lower than during the comparable 1980 period. Receipts of foreign gas during April 1981 included Algerian liquefied natural gas (LNG) equivalent to approximately 5 Bcf.

Domestic producer sales to major interstate pipelines in March 1981 totaled 945 Bcf, 1.6 percent below sales for the previous March. Total sales during the first 3 months of 1981 were 2.8 Tcf, 2.0 percent less than sales during the comparable 1980 period.

Stocks of working gas* in underground natural gas storage reservoirs at the end of April 1981 totaled 1.7 Tcf, 4.1 percent above stocks available a year earlier. Net storage injections during April 1981 were 132 Bcf, 37.5 percent higher than during the previous April.

*Gas available for withdrawal.

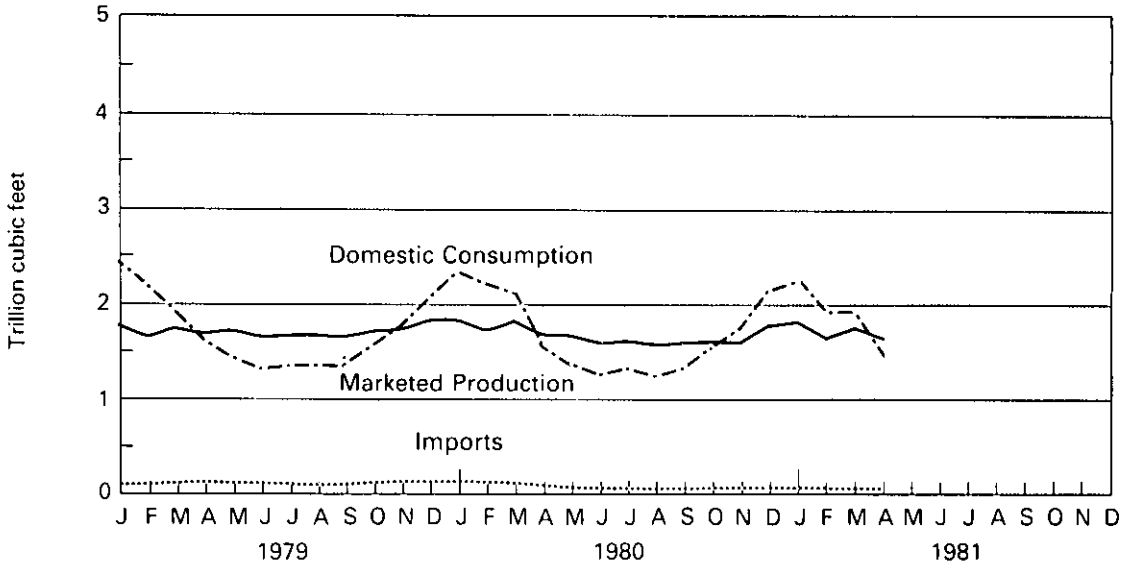
Natural Gas

		Domestic Consumption	Production		Domestic Producer Sales to Major Interstate Pipelines	Imports	Exports
			Marketed	Dry			
		Billion cubic feet					
1973	**TOTAL**	**22,049**	**22,648**	**21,731**	**12,067**	**1,033**	**77**
1974	**TOTAL**	**21,223**	**21,601**	**20,714**	**11,462**	**959**	**77**
1975	**TOTAL**	**19,538**	**20,109**	**19,237**	**10,652**	**953**	**73**
1976	**TOTAL**	**19,946**	**19,952**	**19,098**	**10,140**	**964**	**65**
1977	**TOTAL**	**19,521**	**20,025**	**19,163**	**9,883**	**1,011**	**56**
1978	**TOTAL**	**19,627**	**19,974**	**19,122**	**9,911**	**966**	**53**
1979	January	2,426	1,771	1,702	890	102	6
	February	2,204	1,656	1,591	819	97	5
	March	1,881	1,755	1,686	907	113	5
	April	1,594	1,692	1,625	871	106	5
	May	1,429	1,716	1,648	877	104	5
	June	1,309	1,643	1,578	812	101	5
	July	1,330	1,662	1,596	851	104	6
	August	1,342	1,689	1,622	880	97	4
	September	1,329	1,635	1,570	820	98	5
	October	1,557	1,705	1,638	888	107	3
	November	1,768	1,724	1,656	921	114	3
	December	2,072	1,823	1,751	960	110	4
	TOTAL	**20,241**	**20,471**	**19,663**	**10,496**	**1,253**	**56**
1980	January	2,279	1,817	1,745	981	119	5
	February	2,192	1,705	1,638	898	111	3
	March	2,099	1,827	1,754	960	108	5
	April	1,568	1,667	1,601	897	91	6
	May	1,355	1,692	1,625	859	70	6
	June	1,253	1,583	1,520	794	62	5
	July	1,301	1,613	1,549	825	64	6
	August	1,246	1,572	1,510	828	60	5
	September	1,299	1,577	1,515	800	58	4
	October	1,542	1,647	1,582	894	73	3
	November	1,783	1,651	1,586	906	85	3
	December	2,156	1,794	1,723	963	93	4
	TOTAL	**20,073**	**20,145**	**19,348**	**10,605**	**994**	**55**
1981	January	2,256	1,769	1,699	965	86	5
	February	R1,899	R1,592	R1,529	873	79	3
	March	1,915	1,750	1,680	945	R73	4
	April	1,490	1,640	1,580	NA	78	3
	TOTAL (Year-to-date)	**7,560**	**6,751**	**6,488**	**NA**	**316**	**15**

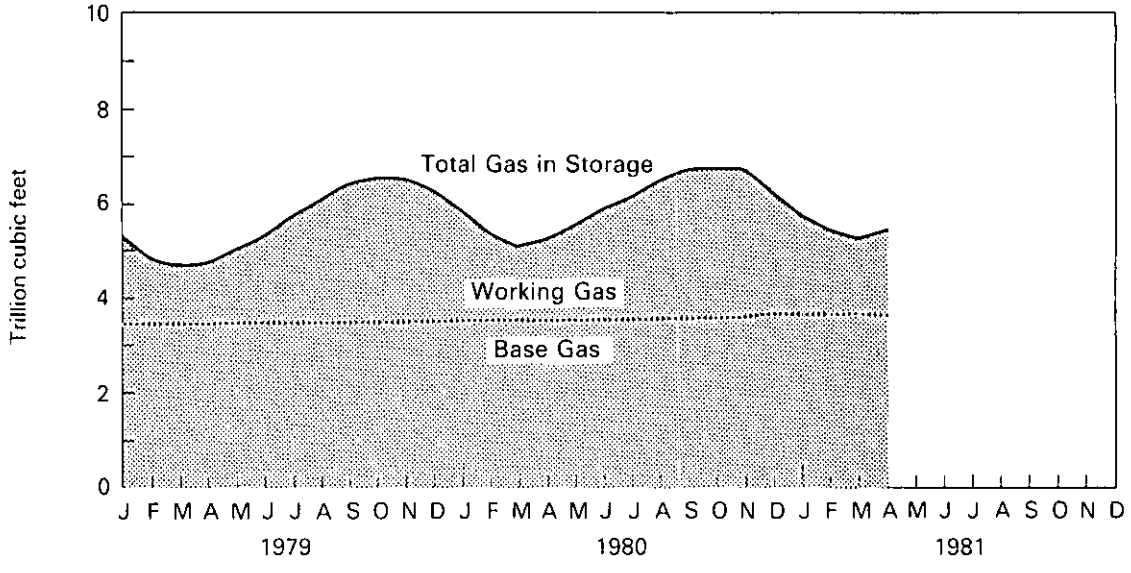
Geographic coverage: the 50 United States and District of Columbia.
R = Revised data. NA = Not available.
Sources: • Domestic Consumption—1973 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Natural Gas" chapter; 1976 through 1979: Energy Information Administration (EIA) *Energy Data Report*, "Natural Gas Production and Consumption"; January 1980 forward: EIA estimates based on a supply/disposition balance calculation.
• Production —State reports to the Interstate Oil Compact Commission, data from the United States Geological Survey and EIA estimates for states that do not report monthly data on a regular or timely basis.
• Domestic Producer Sales—Federal Power Commission (FPC) Form 11, "Natural Gas Pipeline Company Monthly Statement."
• Imports —1973 through 1979: FPC Form 14, "Imports and Exports of Natural Gas"; January 1980 forward: EIA estimates based on import data from FPC Form 11.
• Exports —1973 through 1979: FPC Form 14; January 1980 forward: EIA estimates based primarily on historical data reported on FPC Form 14.

Natural Gas

Domestic Consumption, Marketed Production and Imports



Gas in Storage



Natural Gas

Natural Gas in Underground Storage[1]

		Total Gas In Storage	Base Gas	Working Gas	Storage Injections	Storage Withdrawals	Net Storage Injections[2]
		Billion cubic feet					
1975	**TOTAL**	**‡5,358**	**‡3,150**	**‡2,208**	**NA**	**NA**	**NA**
1976	**TOTAL**	**‡5,231**	**‡3,310**	**‡1,922**	**1,952**	**2,074**	**(122)**
1977	**TOTAL**	**‡5,844**	**‡3,377**	**‡2,466**	**2,390**	**1,767**	**623**
1978	**TOTAL**	**‡5,999**	**‡3,459**	**‡2,540**	**2,330**	**2,176**	**154**
1979	January	5,348	3,458	1,890	21	673	(652)
	February	4,806	3,457	1,349	23	566	(543)
	March	4,695	3,459	1,236	94	205	(111)
	April	4,762	3,427	1,335	182	73	109
	May	5,057	3,438	1,619	308	13	295
	June	5,399	3,449	1,950	350	8	342
	July	5,743	3,459	2,284	361	19	342
	August	6,095	3,467	2,628	362	12	350
	September	6,401	3,481	2,920	326	14	312
	October	6,563	3,484	3,079	196	34	162
	November	6,541	3,496	3,045	108	132	(24)
	December	6,297	3,537	2,761	53	292	(239)
1980	January	5,865	3,535	2,330	21	465	(444)
	February	5,397	3,536	1,861	24	493	(469)
	March	5,131	3,542	1,589	41	307	(266)
	April	5,227	3,547	1,680	174	78	96
	May	5,538	3,553	1,985	319	8	311
	June	5,841	3,560	2,281	316	13	303
	July	6,127	3,564	2,563	302	18	284
	August	6,444	3,594	2,850	328	30	298
	September	6,692	3,596	3,096	260	11	249
	October	6,782	3,598	3,184	141	53	88
	November	6,639	3,620	3,019	66	203	(137)
	December	6,272	3,629	2,643	34	402	(368)
1981	January	5,763	3,629	2,134	28	537	(509)
	February	5,440	3,628	1,812	62	385	(323)
	March	5,248	3,630	1,618	50	243	(193)
	April	5,380	3,631	1,749	191	59	132

Geographic coverage: the 50 United States and District of Columbia.
[1]See Explanatory Note 9.
[2]Net Storage Injections = storage injections minus storage withdrawals. Parentheses indicate withdrawals greater than injections.
‡Total as of December 31.
NA = Not available.
Source: • Energy Information Administration Form 191 and Federal Power Commission Form 8, "Underground Gas Storage Report."

Part 5 Oil and Gas Resource Development

Oil and Gas Resource Development

The April rotary rig count of 3,728 was the highest in U.S. drilling history. The count surpassed the previous record of 3,595 rigs the month before. This was a 39.0 percent increase over the April 1980 count of 2,682 rotary rigs.

Well completions reported in April 1981 totaled 6,051. This is a 46.9 percent increase from the number reported during April 1980.

Oil well completions reported in April 1981 (2,905 reported) were up 57.8 percent from April 1980 (1,841 reported). In April 1981, 1,600 gas well completions were reported, 42.7 percent above the April 1980 level. Dry hole completions reported increased 33.5 percent (1,546 as compared to 1,158 during the previous April). Total reported footage drilled increased 47.6 percent (27.8 million feet as compared to 18.9 million feet the year before).

There were 40 crews engaged in seismic exploratory work offshore in April 1981. This is a 29.0 percent increase from the April 1980 level. April 1981 onshore seismic activity attained a new high of 605 crews, 30.1 percent higher than activity during April 1980.

Oil and Gas Resource Development

		Rotary Rigs in Operation		Exploratory and Development Wells Completed[1,2]				Total Footage of Wells Completed[1]
		Monthly average		Oil	Gas	Dry	Total	Thousand feet
1973	**AVERAGE**	**1,194**	**TOTAL**	**9,902**	**6,385**	**10,305**	**26,592**	**136,391**
1974	**AVERAGE**	**1,475**	**TOTAL**	**12,784**	**7,240**	**11,674**	**31,698**	**150,551**
1975	**AVERAGE**	**1,660**	**TOTAL**	**16,408**	**7,580**	**13,247**	**37,235**	**174,434**
1976	**AVERAGE**	**1,656**	**TOTAL**	**17,059**	**9,085**	**13,621**	**39,765**	**181,780**
1977	**AVERAGE**	**2,001**	**TOTAL**	**18,912**	**11,378**	**14,692**	**44,982**	**210,848**
1978	**AVERAGE**	**2,259**	**TOTAL**	**17,775**	**13,064**	**16,218**	**47,057**	**227,110**
1979	January	2,199		1,372	996	1,278	3,646	17,963
	February	2,064		1,463	1,139	1,076	3,678	18,017
	March	1,971		1,544	1,343	1,372	4,259	21,175
	April	1,943		1,135	1,085	926	3,146	16,019
	May	1,960		1,335	1,024	1,166	3,525	17,451
	June	1,999		1,696	1,199	1,252	4,147	19,520
	July	2,094		1,535	1,090	1,131	3,756	16,910
	August	2,222		1,529	1,245	1,366	4,140	19,555
	September	2,284		1,831	1,382	1,423	4,636	22,676
	October	2,380		1,647	1,138	1,313	4,098	19,216
	November	2,460		1,869	1,270	1,505	4,644	21,843
	December	2,552		2,390	1,736	1,891	6,017	27,098
	AVERAGE	**2,177**	**TOTAL**	**19,383**	**14,681**	**15,752**	**49,816**	**238,659**
1980	January	2,571		1,436	782	1,240	3,458	16,475
	February	2,613		1,635	1,000	1,297	3,932	18,891
	March	2,658		2,390	1,834	1,542	5,766	27,691
	April	2,682		R1,841	R1,121	R1,158	R4,120	R18,855
	May	2,797		2,061	1,080	1,202	4,343	20,034
	June	2,850		2,232	1,296	1,463	4,991	24,640
	July	2,953		2,068	1,037	1,333	4,438	21,649
	August	3,045		2,340	1,270	1,537	5,147	24,037
	September	3,099		2,636	1,721	1,761	6,118	28,168
	October	3,148		2,409	1,191	1,692	5,292	24,554
	November	3,220		2,239	1,498	1,598	5,335	25,273
	December	3,286		3,675	1,903	2,237	7,815	33,806
	AVERAGE	**2,910**	**TOTAL**	**27,026**	**15,730**	**18,089**	**60,845**	**284,461**
1981	January	3,386		1,789	971	1,360	4,120	20,195
	February	3,502		2,462	1,045	1,609	5,116	22,763
	March	3,595		3,102	1,424	1,878	6,404	30,144
	April	3,728		2,905	1,600	1,546	6,051	27,836
	AVERAGE	**3,555**	**TOTAL**	**10,258**	**5,040**	**6,393**	**21,691**	**100,938**

Geographic coverage: the 50 United States and District of Columbia.
[1]These data are for well completions reported to the American Petroleum Institute during the reporting period. Excludes service wells and stratigraphic and core tests.
[2]Data reported for the first 2 months of each quarter cover 4 weeks of drilling activity, and data for the last month of the quarter cover 5 weeks of drilling activity.
R = Revised data.
Note: Totals reflect subsequent data revisions and therefore may not agree with cumulative monthly data.
Sources: • Rotary Rigs: Hughes Tool Company, "Rotary Rigs Running—By State."
• Wells: American Petroleum Institute (API), "Monthly Drilling Report" and "Quarterly Review of Drilling Statistics for the United States."

Oil and Gas Resource Development

		Crews Engaged In Seismic Exploration			Line-Miles of Seismic Exploration		
		Offshore	Onshore	Total	Offshore[1]	Onshore[1]	Total[1]
		Monthly average			Annual total		
1973	**AVERAGE**	**23**	**227**	**250**	**258,944**	**127,160**	**386,104**
1974	**AVERAGE**	**31**	**274**	**305**	**341,784**	**158,629**	**500,413**
1975	**AVERAGE**	**30**	**254**	**284**	**309,283**	**150,694**	**459,977**
1976	**AVERAGE**	**25**	**237**	**262**	**226,303**	**142,926**	**369,229**
1977	**AVERAGE**	**27**	**281**	**308**	**124,676**	**120,072**	**244,748**
1978	**AVERAGE**	**25**	**327**	**352**	**174,607**	**135,899**	**310,506**
1979	January	28	327	355			
	February	29	321	350			
	March	32	332	364			
	April	30	330	360			
	May	28	355	383			
	June	32	372	404			
	July	31	376	407			
	August	31	393	424			
	September	30	403	433			
	October	29	407	436			
	November	31	408	439			
	December	31	419	450			
	AVERAGE	**30**	**370**	**400**	**193,212**	**163,929**	**357,141**
1980	January	29	439	468			
	February	29	440	469			
	March	29	448	477			
	April	31	465	496			
	May	34	468	502			
	June	39	496	535			
	July	42	514	556			
	August	44	521	565			
	September	44	523	567			
	October	41	530	571			
	November	41	531	572			
	December	40	540	580			
	AVERAGE	**37**	**493**	**530**			
1981	January	38	553	591			
	February	41	561	602			
	March	40	570	610			
	April	40	605	645			
	AVERAGE	**40**	**572**	**612**			

Geographic coverage: the 50 United States and District of Columbia.
[1]Monthly data not available.
Sources: • Society of Exploration Geophysicists, "Monthly Seismic Crew Count" and annual reports published in their bulletin, *Geophysics*.

Coal

The coal strike (March 27–June 7, 1981) decreased monthly output by approximately one-half of pre-strike levels during April and May. Coal production in April 1981 totaled 38.0 million tons, 51.1 percent less than the 77.8 million tons produced in March 1981 and 46.0 percent less than the 70.4 million tons produced in April 1980. Coal production in May 1981 was 36.8 million tons, 48.2 percent below production in May 1980.

The Energy Information Administration monitored the coal supply situation at electric utilities and coke plants during the strike. The most recent survey showed that coal stocks at electric utility plants on May 16, 1981, totaled 152.6 million tons, down 21.1 million tons from stocks of 173.7 million tons on March 21. During this period, coal stocks at coke plants declined from 9.9 million tons to 5.5 million tons. The survey also showed that during the week ending May 16, 1981, electric utilities consumed 10.1 million tons compared with receipts of 6.3 million tons. Coke plants consumed 1.0 million tons compared with receipts of 0.3 million tons in the week ended May 16.

Imports of coal in March 1981 totaled 77 thousand tons. Exports of coal in March 1981 totaled 9.7 million tons, 4.1 million tons more than the amount exported during March 1980. Coal exports were principally to Japan (25.1 percent), France (11.7 percent), the Netherlands (10.8 percent), and Italy (9.9 percent).

Coal

Bituminous Coal, Lignite, and Anthracite

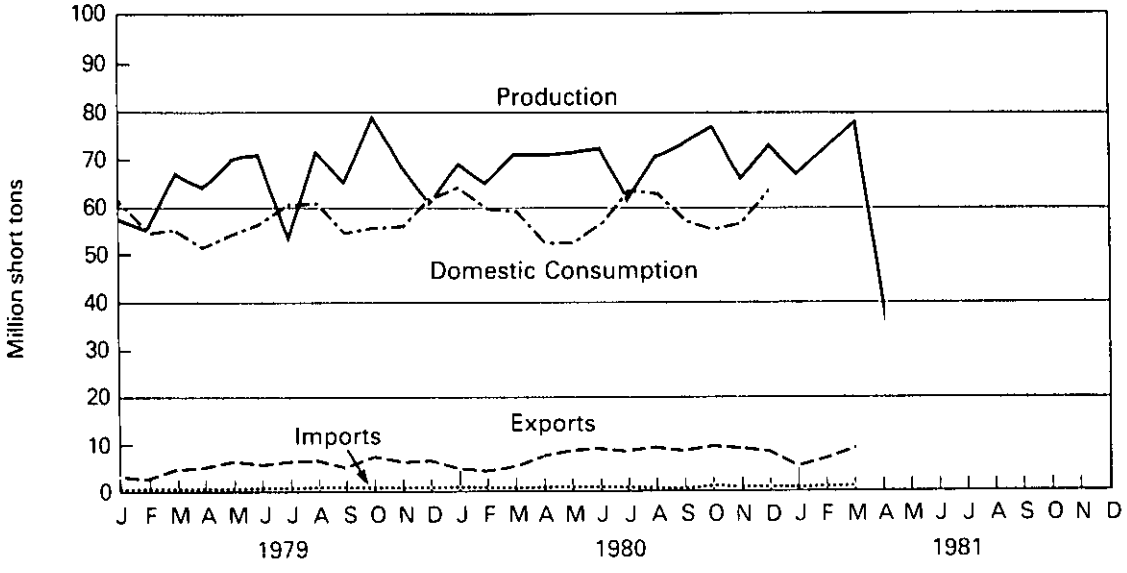
		Production	Domestic Consumption	Imports[1]	Exports[2,3]	Stocks[4]
			Thousand short tons			
1973	**TOTAL**	**598,568**	**562,584**	**127**	**53,587**	**104,335**
1974	**TOTAL**	**610,023**	**558,402**	**2,080**	**60,661**	**96,323**
1975	**TOTAL**	**654,641**	**562,641**	**940**	**66,309**	**128,050**
1976	**TOTAL**	**684,913**	**603,790**	**1,203**	**60,021**	**134,438**
1977	**TOTAL**	**697,205**	**625,291**	**1,647**	**54,312**	**157,098**
1978	**TOTAL**	**670,164**	**625,225**	**2,953**	**40,714**	**145,551**
1979	January	57,794	61,199	186	3,607	136,425
	February	54,810	54,463	252	2,728	129,042
	March	66,775	54,864	123	4,644	134,044
	April	63,937	51,601	161	5,271	142,328
	May	69,488	54,026	112	6,217	151,269
	June	70,698	56,025	209	5,978	155,406
	July	53,595	60,397	88	6,300	148,265
	August	71,616	60,750	320	6,249	152,787
	September	64,590	54,219	180	5,148	158,016
	October	78,563	55,719	152	7,447	169,633
	November	68,506	55,997	130	6,173	177,722
	December	60,762	61,263	146	6,280	181,646
	TOTAL	**781,134**	**680,524**	**2,059**	**66,042**	
1980	January	68,276	63,521	121	4,460	179,450
	February	64,678	59,678	193	4,041	176,808
	March	70,326	58,851	93	5,633	176,685
	April	70,381	52,635	63	7,563	185,367
	May	70,899	52,834	207	8,597	193,920
	June	71,850	56,098	104	8,899	199,299
	July	61,225	63,122	32	8,247	185,913
	August	70,665	62,752	166	9,270	190,689
	September	72,460	57,306	2	8,364	194,467
	October	76,210	R55,774	139	9,454	201,975
	November	65,930	56,800	3	8,987	204,436
	December	72,500	63,362	70	8,228	204,028
	TOTAL	**835,400**	**702,733**	**1,194**	**91,742**	
1981	January	66,447	NA	35	5,795	NA
	February	70,328	NA	104	6,771	NA
	March	77,833	NA	77	9,710	NA
	April	38,024	NA	NA	NA	NA
	May	36,758	NA	NA	NA	NA
	TOTAL (Year-to-date)	**289,390**	**NA**	**NA**	**NA**	**NA**

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
See Explanatory Note 10 for methodology used to calculate domestic consumption from 1978 forward.
[1]Bituminous coal is the only type of coal imported during the years shown above.
[2]Includes exports of lignite beginning in 1978. Lignite prior to 1978 was combined with lignite briquets. Exports of lignite totaled 22,821 short tons in 1978; 26,389 short tons in 1979; and 65,064 short tons in 1980.
[3]Excludes shipments of anthracite to U.S. Armed Forces overseas (340,000 short tons in 1980).
[4]Stocks held by electric utilities, coke plants, and the other Industrial Sector at the end of period. Excludes stocks at retail dealers (which are consumed by the Residential and Commercial Sector).
NA = Not available. R = Revised data.
Sources: • See Sources on the last page of this section.

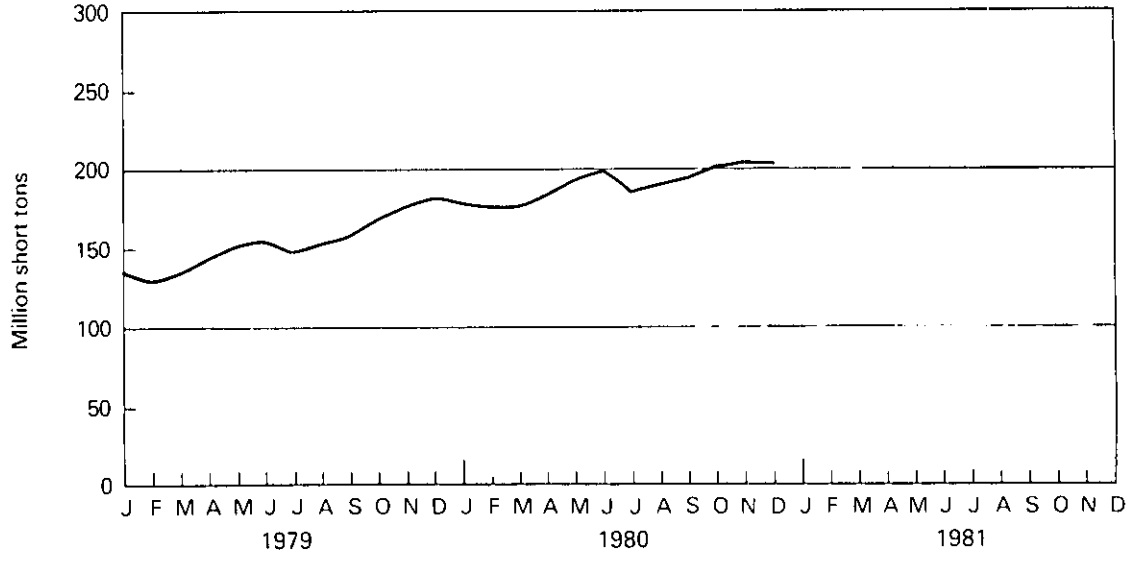
Coal

Bituminous Coal, Lignite, and Anthracite

Production, Consumption, Imports, and Exports



Stocks



Coal

Consumption—Bituminous Coal, Lignite, and Anthracite

			Industrial			
		Electric Utilities	Coke Plants[1]	Other Industrial[2] Including Transportation	Residential and Commercial	Total
			Thousand short tons			
1973	**TOTAL**	**389,212**	**94,101**	**68,154**	**11,117**	**562,584**
1974	**TOTAL**	**391,811**	**90,191**	**64,983**	**11,417**	**558,402**
1975	**TOTAL**	**405,962**	**83,598**	**63,670**	**9,410**	**562,641**
1976	**TOTAL**	**448,371**	**84,704**	**61,799**	**8,916**	**603,790**
1977	**TOTAL**	**477,126**	**77,739**	**61,472**	**8,954**	**625,291**
1978	**TOTAL**	**481,235**	**71,394**	**63,085**	**9,511**	**625,225**
1979	January	46,902	6,578	6,428	1,291	61,199
	February	41,891	5,954	5,836	782	54,463
	March	41,781	6,850	5,617	616	54,864
	April	38,979	6,558	5,511	553	51,601
	May	41,532	6,725	5,269	500	54,026
	June	44,008	6,470	5,034	513	56,025
	July	48,216	6,513	5,223	445	60,397
	August	48,549	6,417	5,363	421	60,750
	September	42,167	6,334	5,159	559	54,219
	October	42,970	6,404	5,565	780	55,719
	November	42,980	6,138	5,946	933	55,997
	December	47,075	6,427	6,766	995	61,263
	TOTAL	**527,051**	**77,368**	**67,717**	**8,388**	**680,524**
1980	January	50,371	6,342	5,944	864	63,521
	February	47,512	6,010	5,400	756	59,678
	March	46,685	6,428	5,199	539	58,851
	April	40,692	6,247	5,118	578	52,635
	May	41,464	6,127	4,894	349	52,834
	June	45,821	5,326	4,675	276	56,098
	July	53,655	4,903	4,222	342	63,122
	August	53,214	4,878	4,337	323	62,752
	September	47,913	4,794	4,170	429	57,306
	October	45,092	5,107	4,990	585	55,774
	November	45,698	5,152	5,331	619	56,800
	December	51,157	5,346	6,067	792	63,362
	TOTAL	**569,274**	**66,660**	**60,347**	**6,452**	**702,733**
1981	January	54,357	NA	NA	NA	NA
	February	47,914	NA	NA	NA	NA
	March	48,398	NA	NA	NA	NA
	TOTAL (Year-to-date)	**150,669**	**NA**	**NA**	**NA**	**NA**

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Bituminous coal and anthracite only. Lignite is not used at coke plants.
[2]See Explanatory Note 10.
NA = Not available.
Sources: • See Sources on the last page of this section.

Coal

Stocks[1]—Bituminous Coal, Lignite, and Anthracite

		Electric Utilities	Industrial		Total[3]
			Coke Plants[2]	Other Industrial	
		Thousand short tons			
1973		**86,967**	**6,998**	**10,370**	**104,335**
1974		**83,509**	**6,209**	**6,605**	**96,323**
1975		**110,724**	**8,797**	**8,529**	**128,050**
1976		**117,436**	**9,902**	**7,100**	**134,438**
1977		**133,219**	**12,816**	**11,063**	**157,098**
1978		**128,225**	**8,278**	**9,048**	**145,551**
1979	January	119,948	7,647	8,830	136,425
	February	114,394	6,763	7,885	129,042
	March	118,542	7,561	7,941	134,044
	April	125,776	8,482	8,070	142,328
	May	133,793	9,228	8,248	151,269
	June	136,627	10,051	8,728	155,406
	July	131,095	8,306	8,864	148,265
	August	134,257	9,021	9,509	152,787
	September	139,129	9,036	9,851	158,016
	October	149,949	9,724	9,960	169,633
	November	157,737	9,983	10,002	177,722
	December	159,714	10,155	11,777	181,646
1980	January	158,717	9,634	11,099	179,450
	February	157,124	9,263	10,421	176,808
	March	157,625	9,317	9,743	176,685
	April	165,817	9,579	9,971	185,367
	May	174,029	9,692	10,199	193,920
	June	178,959	9,913	10,427	199,299
	July	166,806	8,427	10,680	185,913
	August	171,891	7,866	10,932	190,689
	September	175,067	8,213	11,187	194,467
	October	182,045	8,488	11,442	201,975
	November	184,133	8,606	11,697	204,436
	December	183,010	9,067	11,951	204,028
1981	January	176,975	NA	NA	NA
	February	175,715	NA	NA	NA
	March	183,983	NA	NA	NA

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Stocks held by utilities, coke plants, and general industry at end of period.
[2]Bituminous coal and anthracite only. Lignite is not used at coke plants.
[3]Total excludes stocks at retail dealers (which are consumed by the Residential and Commercial Sectors).
NA = Not available.
Sources: • See Sources on the last page of this section.

Sources for the Coal Section

- 1973 through September 1977: Bureau of Mines, *Minerals Yearbook* and *Mineral Industry Surveys.*
- October 1977 forward: Production: Association of American Railroads, Statement CS54A; Commonwealth of Pennsylvania, Department of Environmental Resources, "Anthracite Mines—Monthly Tonnage, Manhour and Accident Report" and "Annual Report on Mining, Oil and Gas, and Land Reclamation and Conservation Activities"; Energy Information Administration (EIA) "Weekly Coal Report," "Bituminous Coal and Lignite Quarterly Distribution Report" (Form EIA-6), "Bituminous Coal and Lignite, Production and Mine Operation—Annual Report" (Form EIA-7), and Bureau of Mines Form 6-1385A, "Pennsylvania Anthracite Production, Mines Without Preparation Plants," BOM Form 6-1387A, "Pennsylvania Anthracite Production, Contractor's Report", BOM Form 6-1388A, "Pennsylvania Anthracite Production, River Coal Report"; and Various States, Annual Coal Mining Reports.
- October 1977 forward: Domestic Consumption and Stocks: EIA, "Monthly Power Plant Report" (FPC Form 4), "Monthly Fuel Consumption Report—Manufacturing Plants" (Form EIA-3), "Coke and Coal Chemicals—Monthly/Annual" (Form EIA-5/5A), "Bituminous Coal and Lignite—Quarterly Distribution Report" (Form EIA-6) and "Monthly Coal Report, Retail Dealers and Upper Lakes Docks" (Form EIA-2).
- October 1977 forward: Imports/Exports: Bureau of the Census, Monthly Reports IM 145 (Imports) and EM 552 (Exports).

Electric Utilities

March 1981 production of electricity by utilities was 185.5 billion kilowatt-hours, 1.1 percent below the March 1980 production level. Coal-fired production totaled 99.5 billion kilowatt-hours and nuclear production totaled 22.0 billion kilowatt-hours. These figures reflect increases of 4.3 and 9.8 percent, respectively, above the March 1980 output levels. Petroleum-fired production totaled 17.0 billion kilowatt-hours, natural gas-fired production totaled 25.9 billion kilowatt-hours, and hydroelectric production totaled 20.6 billion kilowatt-hours. These figures reflect decreases of 16.9, 3.7, and 15.5 percent, respectively, below the March 1980 output levels.

Sales of electricity to all ultimate consumers in the United States in March 1981 totaled 169.8 billion kilowatt-hours, a decrease of 4.9 percent from sales of the month before and 2.6 percent below March 1980 sales. Sales to residential consumers during March 1981 were 56.2 billion kilowatt-hours, 7.0 percent below sales for the corresponding month in 1980. Commercial sales were 38.6 billion kilowatt-hours, 0.5 percent less than the amount for March 1980. Sales to industrial consumers totaled 68.6 billion kilowatt-hours in March 1981, about 0.7 percent less than the March 1980 figure. In March 1981 other sales totaled 6.4 billion kilowatt-hours, 5.6 percent above the March 1980 level.

Electric utility petroleum consumption (excluding petroleum coke) during March 1981 was 29.3 million barrels, a 15.8 percent decrease from the March 1980 level. Coal consumption for March 1981 was 48.4 million tons, 3.7 percent above the March 1980 rate. During March 1981, consumption of natural gas by electric utilities was 272.3 billion cubic feet, 4.1 percent below the March 1980 consumption level.

On March 31, 1981, utility stocks of anthracite, bituminous coal, and lignite totaled 184.0 million tons. Stockpiles were 16.7 percent above the levels of March 1980.

Petroleum stocks (excluding petroleum coke) on March 31, 1981, totaled 128.6 million barrels, 4.9 percent below the levels for the same month of 1980.

Electric Utilities

Net Electricity Production by Primary Energy Source

		Coal[1]	Petroleum[2]	Natural Gas	Nuclear	Hydro	Other[3]	Total
				Million kilowatt-hours				
1975	**TOTAL**	**852,786**	**289,095**	**299,778**	**172,505**	**300,047**	**3,437**	**1,917,649**
1976	**TOTAL**	**944,391**	**319,988**	**294,624**	**191,104**	**283,707**	**3,883**	**2,037,696**
1977	**TOTAL**	**985,219**	**358,179**	**305,505**	**250,883**	**220,475**	**4,063**	**2,124,323**
1978	**TOTAL**	**975,742**	**365,060**	**305,391**	**276,403**	**280,419**	**3,315**	**2,206,331**
1979	January	94,986	39,474	22,093	27,792	25,021	326	209,692
	February	84,748	32,274	21,844	25,911	21,275	285	186,337
	March	85,220	22,076	24,916	24,335	25,921	382	182,849
	April	80,450	20,599	24,763	18,418	25,389	342	169,962
	May	86,149	21,470	26,135	15,025	28,939	350	178,069
	June	90,817	24,367	30,107	16,065	24,979	347	186,682
	July	97,879	25,750	34,676	20,825	22,761	364	202,255
	August	97,910	26,123	34,949	24,204	21,260	405	204,850
	September	85,664	22,509	31,442	21,804	18,978	354	180,751
	October	87,528	20,279	30,419	20,934	20,167	389	179,716
	November	87,456	23,380	24,661	19,255	22,367	387	177,506
	December	96,230	25,223	23,481	20,586	22,727	456	188,703
	TOTAL	**1,075,037**	**303,525**	**329,485**	**255,155**	**279,783**	**4,387**	**2,247,372**
1980	January	103,258	24,986	26,349	19,746	25,278	388	200,005
	February	98,151	24,781	24,755	19,277	21,378	373	188,715
	March	95,386	20,415	26,891	20,039	24,332	401	187,464
	April	83,562	16,025	24,181	18,794	25,748	410	168,720
	May	84,884	16,545	26,587	18,385	28,865	468	175,734
	June	93,692	18,020	31,295	18,322	27,656	445	189,430
	July	108,457	23,289	39,063	21,024	24,469	475	216,776
	August	107,580	24,885	37,647	24,333	20,431	517	215,393
	September	97,557	17,815	33,580	23,572	18,491	469	191,485
	October	91,196	15,858	28,592	24,510	17,866	533	178,555
	November	93,501	19,989	24,338	20,984	19,217	520	178,550
	December	104,339	23,386	22,961	22,130	22,290	506	195,613
	TOTAL	**1,161,562**	**245,994**	**346,240**	**251,116**	**276,021**	**5,506**	**2,286,439**
1981	January	111,148	25,724	22,081	23,368	22,355	540	205,217
	February	97,653	17,444	21,339	21,595	21,134	483	179,648
	March	99,482	16,962	25,900	22,004	20,572	541	185,461
	TOTAL (Year-to-date)	**308,283**	**60,130**	**69,320**	**66,968**	**64,061**	**1,564**	**570,326**

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Includes bituminous coal, lignite, and anthracite.
[2]Includes fuel oil No. 2, No. 4, No. 5, No. 6, crude oil, kerosene, and petroleum coke.
[3]Includes geothermal, wood and waste.
Source: •Federal Power Commission Form 4, "Monthly Power Plant Report".

Electric Utilities

Electricity Sales[1]

		Residential	Commercial	Industrial	Other[2]	Total
				Million kilowatt-hours		
1973	**TOTAL**	**579,231**	**388,266**	**686,085**	**59,326**	**1,712,909**
1974	**TOTAL**	**578,184**	**384,826**	**684,875**	**58,039**	**1,705,924**
1975	**TOTAL**	**584,712**	**401,674**	**675,271**	**68,153**	**1,729,810**
1976	**TOTAL**	**602,863**	**423,639**	**739,965**	**69,557**	**1,836,024**
1977	**TOTAL**	**641,134**	**444,931**	**772,291**	**70,487**	**1,928,845**
1978	**TOTAL**	**671,094**	**459,908**	**800,656**	**73,152**	**2,004,814**
1979	January	69,939	40,362	68,324	6,762	185,387
	February	67,842	39,865	67,632	6,176	181,515
	March	59,314	38,123	69,783	6,029	173,249
	April	50,079	35,930	69,944	5,604	161,557
	May	45,730	36,398	71,798	5,625	159,551
	June	49,556	39,689	71,919	5,696	166,860
	July	58,606	42,773	70,984	5,976	178,339
	August	64,808	44,199	71,956	6,346	187,310
	September	59,703	42,498	71,014	6,425	179,641
	October	49,505	38,820	71,472	6,151	165,948
	November	49,617	36,711	69,780	6,163	162,271
	December	58,120	37,939	67,297	6,117	169,473
	TOTAL	**682,819**	**473,307**	**841,903**	**73,070**	**2,071,101**
1980	January	65,841	39,578	67,532	6,634	179,585
	February	64,514	39,528	68,508	6,171	178,720
	March	60,497	R38,762	R69,086	6,028	R174,373
	April	51,749	36,436	68,007	5,510	161,703
	May	45,699	36,110	67,235	5,807	154,851
	June	52,267	40,129	66,739	5,737	164,872
	July	68,611	45,525	65,531	6,215	185,882
	August	74,893	47,679	67,377	6,255	196,205
	September	67,969	46,028	69,570	6,572	190,139
	October	54,012	40,478	69,414	6,174	170,078
	November	50,539	37,954	67,613	6,068	162,174
	December	60,775	39,846	68,517	6,469	175,607
	TOTAL	**717,366**	**R488,056**	**R815,129**	**73,640**	**R2,094,190**
1981	January	72,240	42,120	67,087	6,830	188,277
	February	R64,588	40,244	67,394	6,387	178,613
	March	56,238	38,586	68,599	6,366	169,789
	TOTAL (Year-to-date)	**193,066**	**120,950**	**203,080**	**19,583**	**536,679**

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Electricity sales to all ultimate consumers.
[2]Includes street lighting and transportation uses.
R = Revised data.
Source: •1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: Federal Energy Regulatory Commission Form 5, "Electric Utility Company Monthly Statement."

Electric Utilities

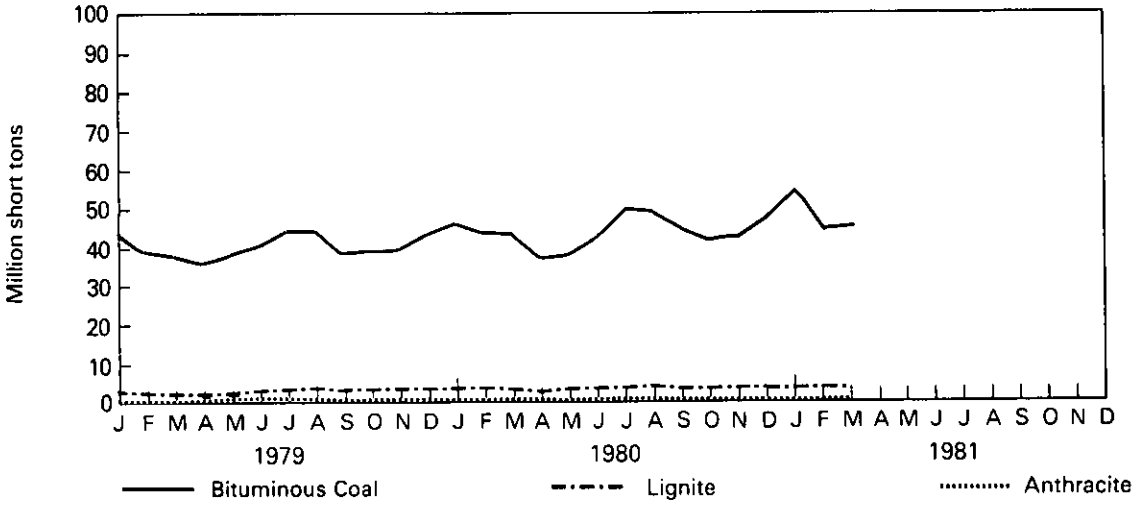
Primary Energy Consumed to Produce Electricity

		Coal				Petroleum				Natural Gas
		Anthracite	Bituminous Coal	Lignite	Total	Steam	Gas Turb./ Int. Comb.	Total Liquids	Petroleum Coke	
		Thousand short tons				Thousand barrels			Thousand short tons	Million cubic feet
1973	**TOTAL**	**1,443**	**376,975**	**10,794**	**389,212**	**513,190**	**47,058**	**560,248**	**507**	**3,660,172**
1974	**TOTAL**	**1,498**	**378,643**	**11,670**	**391,811**	**483,146**	**53,128**	**536,274**	**625**	**3,443,428**
1975	**TOTAL**	**1,480**	**388,523**	**15,960**	**405,962**	**467,221**	**38,907**	**506,128**	**70**	**3,157,669**
1976	**TOTAL**	**1,350**	**425,205**	**21,817**	**448,371**	**514,077**	**41,843**	**555,920**	**68**	**3,080,868**
1977	**TOTAL**	**1,425**	**451,051**	**24,650**	**477,126**	**574,869**	**48,837**	**623,706**	**98**	**3,191,200**
1978	**TOTAL**	**1,064**	**448,763**	**31,407**	**481,235**	**588,319**	**47,520**	**635,839**	**398**	**3,188,363**
1979	January	89	43,791	3,021	46,902	62,226	6,244	68,470	33	228,479
	February	75	39,010	2,806	41,891	51,655	4,959	56,614	32	226,896
	March	65	38,865	2,852	41,781	36,371	1,872	38,243	22	260,351
	April	66	36,362	2,551	38,979	33,800	1,682	35,482	15	260,974
	May	106	38,669	2,757	41,532	35,285	2,053	37,338	23	277,318
	June	103	40,882	3,023	44,008	39,258	2,314	41,572	25	320,196
	July	96	44,391	3,730	48,216	41,895	2,413	44,308	23	369,318
	August	97	44,553	3,899	48,549	42,478	2,416	44,894	23	375,370
	September	86	38,920	3,162	42,167	36,768	1,747	38,515	17	338,308
	October	75	39,634	3,261	42,970	33,445	1,132	34,577	16	323,082
	November	92	39,571	3,317	42,980	37,822	1,954	39,776	18	260,982
	December	96	43,480	3,499	47,075	41,601	1,906	43,507	20	249,249
	TOTAL	**1,046**	**488,129**	**37,876**	**527,051**	**492,606**	**30,691**	**523,297**	**268**	**3,490,523**
1980	January	74	46,518	3,779	50,371	40,695	2,197	42,892	54	276,743
	February	72	43,969	3,471	47,512	40,231	1,919	42,150	21	263,771
	March	83	43,244	3,357	46,685	33,406	1,379	34,785	13	283,945
	April	71	37,971	2,651	40,692	26,867	673	27,540	7	256,606
	May	86	38,116	3,262	41,464	26,991	840	27,831	11	281,886
	June	89	42,073	3,658	45,821	29,551	1,138	30,689	11	336,894
	July	93	49,815	3,746	53,655	37,297	2,791	40,088	11	420,339
	August	80	49,077	4,057	53,214	40,019	2,833	42,852	15	405,343
	September	84	44,487	3,342	47,913	29,367	1,286	30,653	11	357,286
	October	73	41,819	3,200	45,092	26,269	689	26,958	8	301,266
	November	56	42,379	3,263	45,698	32,782	1,320	34,102	7	255,559
	December	89	47,212	3,856	51,157	38,387	1,285	39,672	9	241,957
	TOTAL	**951**	**526,680**	**41,642**	**569,274**	**401,863**	**18,351**	**420,214**	**179**	**3,681,595**
1981	January	81	R50,304	3,972	54,357	41,556	2,027	43,583	10	231,606
	February	58	44,583	3,272	47,914	28,948	1,049	29,997	9	224,003
	March	75	45,168	3,155	48,398	28,492	784	29,276	9	272,348
	TOTAL (Year-to-date)	**214**	**140,055**	**10,399**	**150,668**	**98,997**	**3,860**	**102,857**	**28**	**727,957**

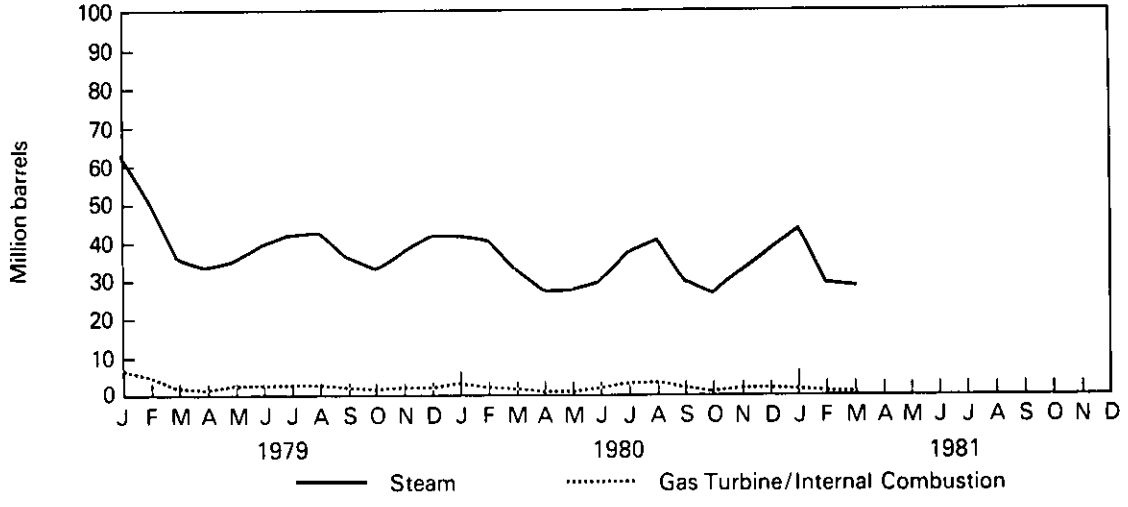
Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
R = Revised data.
Source: •Federal Power Commission, Form 4, "Monthly Powerplant Report."

Electric Utilities

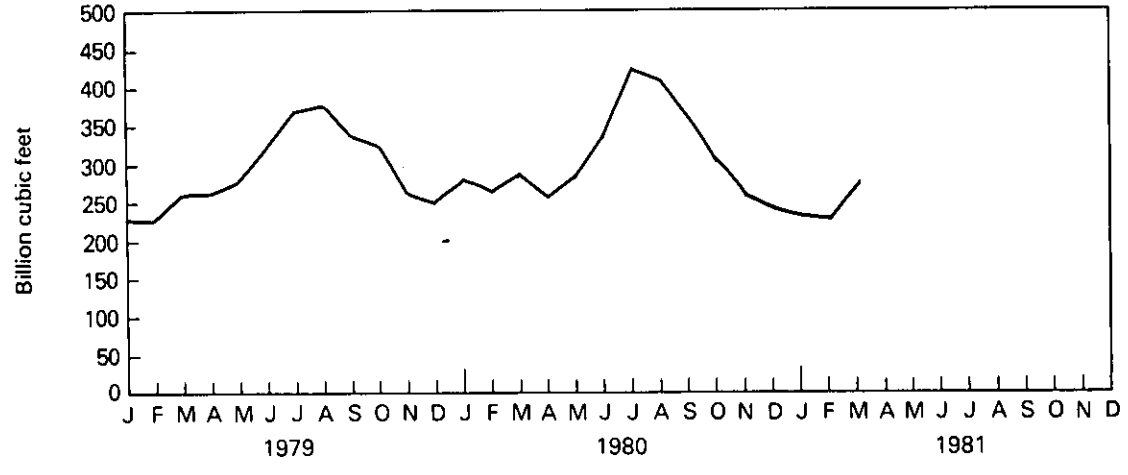
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



Electric Utilities

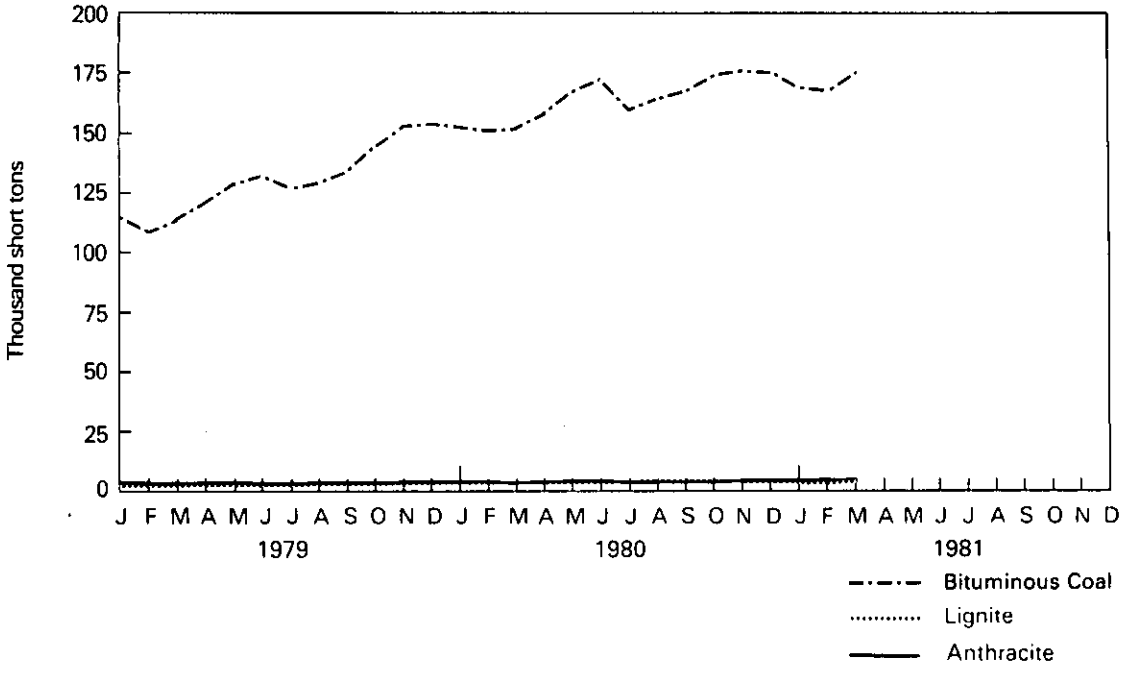
End-of-Month Coal and Petroleum Stocks

		Coal				Petroleum			
		Anthracite	Bituminous Coal	Lignite	Total	Steam	Gas Turb./ Int. Comb.	Total Liquids	Petroleum Coke
		Thousand short tons				Thousand barrels			Thousand short tons
1973		**‡1,066**	**‡84,941**	**‡961**	**‡86,967**	**‡79,121**	**‡10,095**	**‡89,216**	**‡312**
1974		**‡930**	**‡81,712**	**‡867**	**‡83,509**	**‡97,718**	**‡15,199**	**‡112,917**	**‡35**
1975		**‡982**	**‡107,927**	**‡1,815**	**‡110,724**	**‡108,825**	**‡16,432**	**‡125,257**	**‡31**
1976		**‡1,000**	**‡114,130**	**‡2,306**	**‡117,436**	**‡106,993**	**‡14,703**	**‡121,696**	**‡32**
1977		**‡2,321**	**‡128,210**	**‡2,688**	**‡133,219**	**‡124,750**	**‡19,281**	**‡144,031**	**‡44**
1978		**‡2,178**	**‡123,020**	**‡3,027**	**‡128,225**	**‡102,402**	**‡16,386**	**‡118,788**	**‡198**
1979	January	2,154	114,980	2,814	119,948	89,583	15,635	105,218	181
	February	2,136	109,532	2,726	114,394	82,078	15,541	97,619	166
	March	2,170	113,669	2,704	118,542	96,033	16,386	112,419	170
	April	2,220	120,876	2,680	125,776	99,500	16,835	116,335	170
	May	2,231	128,962	2,600	133,793	106,017	16,974	122,991	159
	June	2,233	131,898	2,495	136,627	104,513	17,180	121,693	150
	July	2,290	126,328	2,478	131,095	104,170	17,578	121,748	160
	August	2,328	128,760	3,170	134,257	103,965	17,910	121,875	163
	September	2,385	133,605	3,139	139,129	104,857	18,733	123,590	164
	October	2,452	144,035	3,462	149,949	109,590	19,410	129,000	170
	November	2,496	151,848	3,393	157,737	111,072	19,714	130,786	170
	December	3,274	152,981	3,459	159,714	111,121	20,301	131,422	183
1980	January	3,371	151,891	3,455	158,717	114,313	19,597	133,909	175
	February	3,451	150,151	3,522	157,124	111,353	19,055	130,409	168
	March	3,488	151,022	3,116	157,625	116,246	R18,934	135,180	154
	April	3,533	158,441	3,843	165,817	118,824	19,201	138,025	103
	May	3,725	166,325	3,980	174,029	123,043	19,485	142,529	69
	June	3,838	171,042	4,079	178,959	124,177	19,273	143,450	65
	July	3,955	161,159	3,691	168,806	121,596	18,680	140,276	65
	August	4,098	163,756	4,036	171,891	118,514	18,150	136,664	63
	September	4,291	166,515	4,262	175,067	122,240	18,064	140,304	61
	October	4,481	173,411	4,153	182,045	124,046	18,398	142,445	60
	November	4,661	175,489	3,983	184,133	119,863	18,051	137,915	53
	December	4,741	174,154	4,115	183,010	117,227	18,147	135,374	52
1981	January	4,824	167,884	4,267	176,975	109,915	18,280	128,195	51
	February	4,859	166,552	4,304	175,715	112,439	17,397	129,836	52
	March	4,951	174,554	4,478	183,983	111,105	17,502	128,607	52

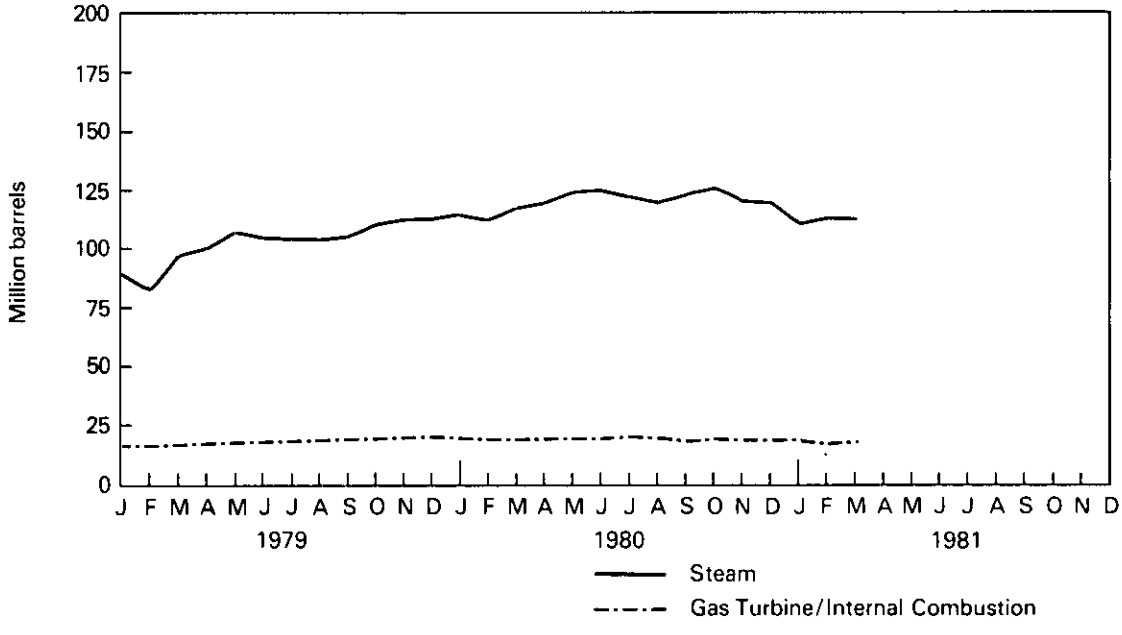
Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
‡Total as of December 31.
R=Revised.
Source: •Federal Power Commission, Form 4, "Monthly Powerplant Report."

Electric Utilities

Coal Stocks (Bituminous Coal, Lignite, and Anthracite)



Petroleum Stocks



Nuclear

During March 1981, operating domestic power reactors generated a total of 22.0 billion net kilowatt-hours of electricity, 1.9 percent above the February 1981 output. However, on an average-output-per-day basis, generation during March was down 8.0 percent from the February level. March 1981 output did exceed the comparable output for March 1980 by 9.8 percent.

In March 1981, nuclear power accounted for 11.9 percent of U.S. electricity generation. This proportion is essentially unchanged from February 1981, but is 1.2 percentage points above the comparable ratio for March 1980.

The only major nuclear reactor status change for March was the granting of an operating license to Alabama Power's Farley-2 unit by the Nuclear Regulatory Commission. This was only the third operating license granted since the Three Mile Island-2 accident in March 1979.

Two units (Three Mile Island-2 and Dresden-1) remain in indefinite suspension. Seventeen other units (Beaver Valley, Brunswick-2, Dresden-2, Farley-1, Hatch-1, Indian Point-2, and -3, Millstone-1, Nine Mile Point-1, North Anna-1, Prairie Island-2, Rancho Seco, San Onofre-1, Surry-1, Three Mile Island-1, Turkey Point-3 and Zion-1) generated no electricity or operated substantially below capacity in March.

Two units, McGuire-1 and Salem-2, were in fuel loading or low-power testing in March, while Farley-2 and Sequoyah-1 were in power ascension.

Nuclear

Nuclear Powerplant Operations

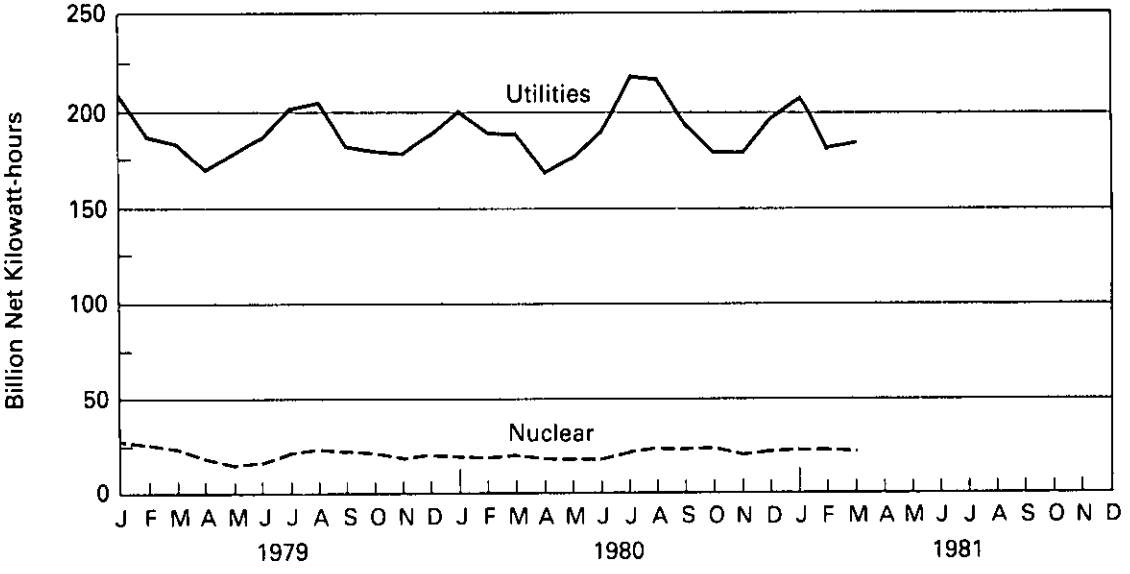
		Reactors Licensed For Commercial Operation[1]	Nuclear-Based Electricity Generation[2]	Nuclear Portion of Domestic Electricity Generation	Maximum Dependable Capacity[3]	Capacity Factor[4]
			Million net kilowatt-hours	Percent	Million net kilowatts	Percent
1973	**AVERAGE**	**40**	**83,479**	**4.5**	**13.850**	**63.2**
1974	**AVERAGE**	**53**	**113,976**	**6.1**	**29.921**	**43.5**
1975	**AVERAGE**	**56**	**172,505**	**9.0**	**35.671**	**55.2**
1976	**AVERAGE**	**62**	**191,104**	**9.4**	**40.642**	**53.5**
1977	**AVERAGE**	**67**	**250,883**	**11.8**	**45.554**	**62.9**
1978	**AVERAGE**	**71**	**276,403**	**12.5**	**49.385**	**63.9**
1979	January	71	27,792	13.3	50.771	73.6
	February	71	25,911	13.9	50.720	76.0
	March	71	24,335	13.3	50.720	64.5
	April	71	18,418	10.8	50.705	50.5
	May	71	15,025	8.4	50.705	39.8
	June	71	16,065	8.6	50.705	44.0
	July	71	20,825	10.3	50.759	55.1
	August	71	24,204	11.8	50.732	64.1
	September	71	21,804	12.1	50.781	59.6
	October	71	20,934	11.6	50.814	55.7
	November	71	19,255	10.8	49.917	53.6
	December	71	20,586	11.0	49.937	55.4
	AVERAGE	**71**	**255,155**	**11.4**	**50.604**	**57.6**
1980	January	71	19,746	9.9	49.945	53.1
	February	72	19,277	10.2	51.055	54.3
	March	72	20,039	10.7	51.031	52.8
	April	74	18,794	11.1	53.040	49.3
	May	74	18,385	10.5	53.040	46.6
	June	74	18,322	9.7	53.040	48.0
	July	74	21,024	9.7	54.064	52.3
	August	74	24,333	11.3	53.957	60.6
	September	74	23,572	12.3	53.855	60.8
	October	75	24,510	13.7	54.724	60.1
	November	75	20,984	11.8	54.737	53.2
	December	75	22,130	11.3	54.749	54.3
	AVERAGE	**74**	**251,116**	**11.0**	**53.103**	**53.8**
1981	January	75	23,368	11.4	55.853	56.2
	February	75	21,595	12.0	55.830	57.6
	March	75	22,004	11.9	55.818	53.0
	AVERAGE	**75**	**66,968**	**11.7**	**55.834**	**55.6**

Geographic coverage: the 50 United States and District of Columbia.
[1]See next table (Reactor Status Table) for explanation and sources.
[2]Electricity generation entries represent yearly or monthly totals rather than averages.
[3]See Explanatory Note 11.
[4]Average percentage of Maximum Dependable Capacity utilized yearly or monthly.
Sources: • Capacity data for units in commercial operation or start-up testing—Nuclear Regulatory Commission Report NUREG 0020, "Operating Units Status Report."
• Generation data—Federal Power Commission Form 4, "Monthly Power Plant Report."

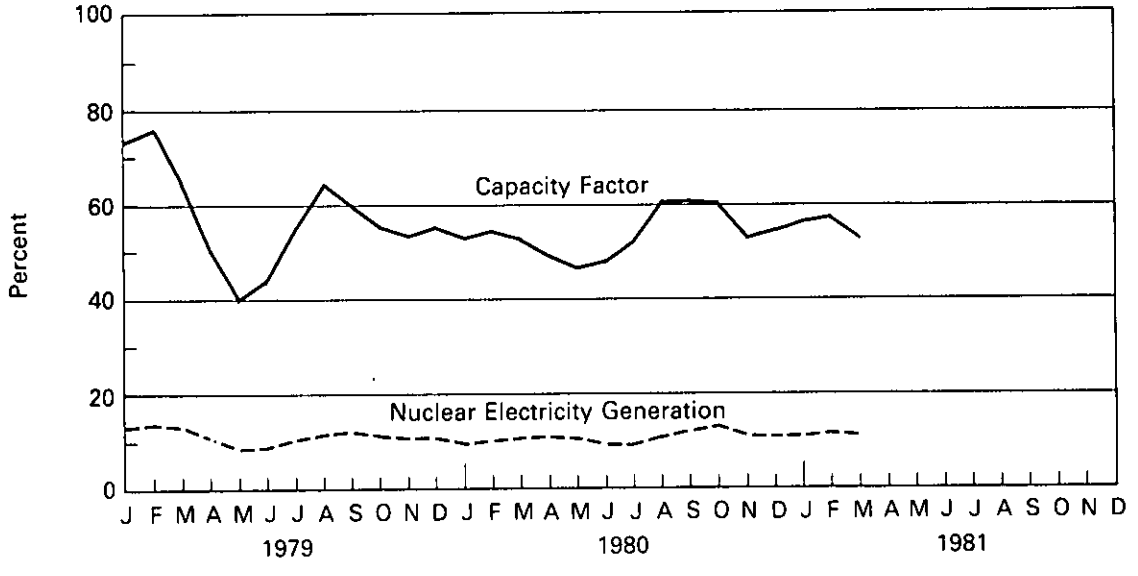
Nuclear

Nuclear Powerplant Operations

Electricity Generated by Utilities and by Nuclear Powerplants



Nuclear Portion of Electricity Generation and Capacity Factor*



*Percentage of Maximum Dependable Capacity utilized.

Nuclear

Status of Nuclear Reactor Units[1]

		Reactors Licensed For Commercial Operations[2]	Construction Permits Granted	Construction Permits Pending[3]	Reactor Units on Order	Reactor Units Announced	Total Reactor Units	Total Design Capacity (Million Net[4] Kilowatts)
1973		**40**	**51**	**58**	**48**	**20**	**217**	**212**
1974		**53**	**58**	**80**	**28**	**16**	**235**	**234**
1975		**56**	**69**	**73**	**19**	**19**	**236**	**236**
1976		**62**	**72**	**66**	**16**	**19**	**235**	**236**
1977		**67**	**80**	**52**	**13**	**9**	**221**	**220**
1978		**71**	**90**	**32**	**9**	**4**	**206**	**204**
1979	January	71	92	30	5	1	199	195
	February	71	92	28	5	1	197	193
	March	71	92	28	5	1	197	193
	April	71	92	27	5	0	195	190
	May	71	92	27	5	0	195	190
	June	71	92	27	5	0	195	190
	July	71	91	25	5	0	192	187
	August	71	91	25	5	0	192	187
	September	71	91	25	3	0	190	185
	October	71	91	25	3	0	190	185
	November	71	91	23	3	0	188	182
	December	71	91	21	3	0	186	180
1980	January	71	90	17	3	0	181	174
	February	72	89	16	3	0	180	173
	March	72	87	14	3	0	176	169
	April	74	85	14	3	0	176	169
	May	74	85	14	3	0	176	169
	June	74	85	14	3	0	176	169
	July	74	85	14	3	0	176	169
	August	74	85	14	3	0	176	169
	September	74	85	14	3	0	176	169
	October	75	84	14	3	0	176	169
	November	75	82	14	3	0	174	167
	December	75	82	12	3	0	172	164
1981	January	75	81	12	3	0	171	164
	February	75	81	12	3	0	171	164
	March	75	81	12	3	0	171	164

Geographic coverage: the 50 United States and District of Columbia.
[1]Monthly data are the status as of the last day of the month. Annual data are the status as of December 31 of each year.
[2]These figures include reactors in fuel-loading, power-testing, and power-ascension phases as well as reactors that have been licensed but which are shut down for indefinite periods, including: Dresden-1, which is undergoing major modifications and Three Mile Island-2, shut down due to an accident in March 1979. Also includes two Department of Energy, dual-purpose reactors (Shippingport and Hanford) which are licensed to generate electricity on a commercial basis.
[3]Although New Haven-1, -2 and Jamesport-1, -2 still remain on the NRC docket as reactor units for which construction permits are pending, these 4 units were dropped from the above table (in November 1979 and March 1980, respectively) because applications for their construction were rejected by New York State. Although Duke Power Co. has announced an "indefinite delay" of two Cherokee units (now carried as reactors for which "Construction Permits (are) Granted," these units will be retained, as is, in the above table until such time as a firm change in their status occurs.
[4]See Explanatory Note 11.
Sources: • Compiled by the Energy Information Administration from various sources, but primarily from the Nuclear Regulatory Commission (NRC), Report NUREG 0380, "Program Summary Report."

Price

Crude Oil

The average price of domestic crude oil purchased at the wellhead was $34.14 per barrel in February 1981. This was 18.3 percent above the previous month's level, and 81.5 percent above the level in February 1980. Due to the January 1981 decontrol order, prices will no longer be applicable by regulatory price category.

During January 1981, the composite refiner acquisition cost of crude oil was $33.40 per barrel, $2.01 per barrel (6.4 percent) above the previous month's price. The imported price increased $1.96 per barrel from the December 1980 level to $37.59 per barrel in January. This price was 5.5 percent above the previous month's level and 22.2 percent above the January 1980 level. The domestic price was $30.87, an increase of $2.32 per barrel (8.1 percent) above the December average.

Residual Fuel Oil

The average price, excluding taxes, for No. 6 residual fuel oil sold to utilities, industry, and other ultimate consumers in February 1981 was $35.94 per barrel, $2.29 above the previous month's price (6.8 percent) and 35.7 percent over the February 1980 average. The average price, excluding taxes, for No. 6 residual fuel oil sold to resellers, bulk plants, jobbers, and other wholesale accounts was $31.27 per barrel, $.13 above (0.4 percent) the January 1981 average and a 34.0 percent increase over the February 1980 average.

Heating Oil

The national average price of heating oil sold to residential customers increased 2.1 cents from the February 1981 level to 125.5 cents per gallon in March. This was a 1.7 percent increase above the selling price in February 1981 and a 29.2 percent increase over the March 1980 price. The average residential distributor margin in March was 17.5 cents per gallon, 2.3 percent above the margin of March 1980. Refiners' national average selling price to resellers and retailers was 103.3 cents per gallon, 31.1 percent above the March 1980 average.

Aviation Fuel

The average price, excluding taxes, for kerosene-type jet fuel sold to commercial airlines, Department of Defense, and other ultimate consumers in February 1981 was 101.6 cents per gallon, or 5.9 cents (6.2 percent) above the previous month's average and a 22.4 percent increase over the February 1980 average.

Motor Gasoline

The national average retail price for all grades and all types of motor gasoline was 138.1 cents per gallon in April 1981. Leaded regular gasoline at all types of stations sold for an average of 134.4 cents per gallon in April, 0.8 cents lower (0.6 percent) than the price in March. The price for unleaded regular gasoline at all types of stations was 141.2 cents per gallon in April, 0.5 cents lower (0.4 percent) than the price in March.

Liquefied Petroleum Gases

The average wholesale price for propane during February 1981, excluding taxes, was 48.1 cents per gallon, a 3.4 percent increase from the previous month's level, and 12.6 percent above the February 1980 level.

In February 1981, the average wholesale price for butane, excluding taxes, was 63.0 cents per gallon, 4.7 percent below the previous month's revised price and 10.1 percent below the February 1980 average.

Price

Petroleum Price Summary

		Actual Domestic Average Wellhead Price[1]	Refiner Acquisition Cost of Crude Oil[2]			No. 6 Residual Oil Price Average[3]	
			Domestic	Imported	Composite	Wholesale[4]	Retail[4]
		Dollars per barrel					
1976	**AVERAGE**	**8.19**	**8.84**	**13.48**	**10.89**	**10.72**	**11.49**
1977	**AVERAGE**	**8.57**	**9.55**	**14.53**	**11.96**	**11.96**	**13.23**
1978	**AVERAGE**	**9.00**	**10.61**	**14.57**	**12.46**	**11.51**	**12.75**
1979	January	9.46	11.02	15.50	13.11	12.78	14.13
	February	9.69	11.34	15.88	13.42	13.72	14.68
	March	9.83	11.45	16.41	13.70	14.82	15.95
	April	10.33	12.06	17.58	14.52	15.51	16.61
	May	10.71	12.41	19.00	15.40	15.71	17.18
	June	11.70	13.24	21.03	17.00	17.81	17.97
	July	13.39	14.61	23.09	18.58	19.18	19.89
	August	14.00	15.73	23.98	19.75	19.00	20.33
	September	14.57	16.05	25.06	20.14	19.62	20.90
	October	15.11	16.93	25.05	20.68	20.88	21.59
	November	15.52	17.65	27.02	22.04	22.00	22.84
	December	17.03	18.84	28.91	23.63	23.55	24.44
	AVERAGE	**12.64**	**14.27**	**21.67**	**17.72**	**17.66**	**18.67**
1980	January	17.86	19.78	30.75	24.81	24.41	26.21
	February	18.81	21.22	32.40	26.11	23.34	26.48
	March	19.34	22.07	33.42	26.88	21.11	25.33
	April	20.29	22.89	33.54	27.09	19.09	22.87
	May	21.01	23.63	34.33	27.85	20.22	23.75
	June	21.53	24.48	34.48	28.80	20.44	24.09
	July	22.26	25.05	34.51	28.73	21.28	23.86
	August	22.63	24.98	34.44	28.70	22.25	25.00
	September	22.59	25.37	34.46	28.96	22.47	25.31
	October	23.23	26.21	34.63	29.56	24.06	26.68
	November	23.92	26.51	35.09	29.79	28.12	30.10
	December	25.80	28.55	35.63	31.39	29.76	32.33
	AVERAGE	**21.19**	**24.23**	**33.89**	**28.07**	**23.14**	**26.09**
1981	January	28.85	30.87	37.59	33.40	R31.14	R33.65
	February	34.14	NA	NA	NA	†31.27	†35.94
	March	NA	NA	NA	NA	NA	NA
	AVERAGE	**NA**	**NA**	**NA**	**NA**	**31.18**	**34.69**

Geographic coverage: Actual domestic average wellhead prices and No. 6 residual oil prices— the 50 United States and District of Columbia. Refiner acquisition cost of crude oil— the 50 United States, District of Columbia, Puerto Rico, Guam, and the Virgin Islands.
[1]See Explanatory Note 12.
[2]See Explanatory Note 13. Crude oil costs and volumes reported on the Economic Regulatory Administration (ERA) Form 49 exclude unfinished oils but include Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported on the FEA Form P110-M-1 include unfinished oils but exclude SPR. Imported averages derived from ERA Form 49 exclude crude oil purchased for Strategic Petroleum Reserve (SPR), whereas, the composite averages derived from the ERA Form 49 include SPR.
[3]Wholesale refers to the price of residual fuel sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and other residual dealers. Retail refers to the price at which residual fuel oil is sold to ultimate consumers such as utility, industrial, commercial and residential accounts.
[4]Excludes tax.
†Preliminary data. R=Revised data. NA=Not available.
Sources: •Actual domestic average, January 1976: FEA Form 90, "Crude Petroleum Production Monthly Report." February 1976 forward: ERA Form 182, "Domestic Crude Oil First Purchase Report."
•Refiner acquisition cost, January 1976: Form FEO 96, "Monthly Cost Allocation Report." February 1976 through June 1978: FEA Form P110-M-1, "Refiners' Monthly Cost Allocation Report." July 1978 forward: ERA Form 49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report."
•No.6 residual oil price, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

Price

Petroleum Price Summary (continued)

		No. 2 Diesel Price Average[1]		No. 2 Heating Oil Price Average		Gasoline Price Average All Grades[2]	Propane Price Average[3]	Butane Price Average[3]
		Wholesale[4]	Retail[4]	Wholesale	Retail	Retail	Wholesale[4]	Wholesale[4]
		Cents per gallon						
1976	**AVERAGE**	**31.9**	**34.7**	**32.6**	**40.6**	**NA**	**20.6**	**21.9**
1977	**AVERAGE**	**36.1**	**39.3**	**36.9**	**46.0**	**NA**	**25.0**	**25.4**
1978	**AVERAGE**	**37.1**	**40.2**	**38.7**	**49.4**	**65.2**	**24.0**	**23.0**
1979	January	39.7	43.0	42.1	53.7	69.5	22.4	24.9
	February	41.8	46.1	44.5	56.3	70.7	21.8	28.5
	March	44.5	47.9	47.0	58.8	73.3	21.2	32.5
	April	47.7	50.6	49.3	61.1	78.0	22.0	35.4
	May	53.4	56.1	52.6	64.2	82.3	24.2	39.5
	June	58.7	65.0	56.9	69.1	88.0	27.9	46.9
	July	62.4	68.9	61.1	73.8	93.0	29.3	51.1
	August	66.0	72.3	64.6	78.4	96.7	30.8	48.0
	September	69.0	71.8	67.8	81.0	99.8	33.3	51.9
	October	71.1	74.8	68.1	82.3	100.6	35.2	56.1
	November	70.3	72.1	69.0	83.7	101.9	37.6	57.0
	December	73.0	80.7	70.8	85.8	104.2	40.4	65.8
	AVERAGE	**58.2**	**62.4**	**53.0**	**65.6**	**88.2**	**29.5**	**45.8**
1980	January	76.0	82.2	75.2	90.8	111.0	41.8	73.3
	February	78.3	85.0	79.0	95.3	118.6	42.7	70.1
	March	79.8	87.8	80.4	97.1	123.0	41.0	66.8
	April	80.4	88.0	81.0	97.4	124.2	41.2	63.1
	May	80.5	87.8	81.4	97.2	124.4	41.7	63.7
	June	81.7	88.6	82.5	97.9	124.6	41.2	58.2
	July	81.9	87.6	83.0	97.9	124.7	40.8	53.8
	August	81.6	86.9	82.9	97.9	124.3	40.6	53.1
	September	80.3	86.6	83.0	98.1	123.1	41.4	51.2
	October	81.5	85.9	83.7	98.7	122.3	43.2	54.3
	November	83.6	88.9	86.1	101.1	122.2	45.1	65.5
	December	87.5	92.4	91.3	106.5	123.1	46.5	72.7
	AVERAGE	**81.2**	**87.3**	**82.2**	**97.8**	**122.1**	**42.4**	**62.9**
1981	January	92.5	100.9	98.6	114.4	126.9	46.5	R66.1
	February	†99.5	†106.0	106.0	R123.4	135.3	†48.1	63.0
	March	NA	NA	106.3	125.5	138.8	NA	NA
	April	NA	NA	NA	NA	138.1	NA	NA
	AVERAGE	**95.7**	**103.5**	**NA**	**NA**	**NA**	**47.2**	**64.5**

Geographic coverage: the 50 United States and District of Columbia.
Note: The average year-to-date gasoline price for the current year is not yet available from the Bureau of Labor Statistics.
[1]Wholesale refers to the price of diesel fuel sold to other refiners and resellers, including branded jobbers, unbranded jobbers, and commercial accounts. Retail refers to the price at which company-owned and operated retail dealers sell to customers.
[2]See Explanatory Note 16.
[3]Wholesale refers to the price at which refiners, resellers, retailers and gas plants sell to one another, including sales to agricultural and industrial accounts. Excludes butane/propane mixtures.
[4]Excludes tax.
†Preliminary data. R = Revised data. NA = Not available.
Sources: •No. 2 diesel price, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."
•No. 2 heating oil price, FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" for 1976 through October 1980. EIA-9A "No. 2 Distillate Price Monitoring Report" for November 1980 forward.
•Gasoline price, Bureau of Labor Statistics.
•Propane and Butane prices, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

Price

Domestic Prices and Percentages of Crude Oil Purchased at the Wellhead[1]

		Incremental Tertiary[2]		Newly Discovered[2]		Marginal Property[2]		Heavy Crude[2]		Other Decontrolled Oil[2]		Tertiary Incentive[2]	
		Dollars per barrel											
		Price	Percent	Price	Percent	Price	Percent	Price	Percent	Price	Percent	Price	Percent
1976	AVERAGE												
1977	AVERAGE												
1978	AVERAGE												
1979	January												
	February												
	March												
	April												
	May							Not Applicable					
	June	11.98	0.05	22.97	0.61	13.16	0.81						
	July	15.09	0.02	26.60	1.12	13.28	1.13						
	August	16.14	0.15	26.63	1.66	13.37	1.33						
	September	17.89	0.06	30.38	2.38	13.67	3.08	16.77	2.82	12.54	NA	24.89	NA
	October	14.21	(0.01)	31.92	3.04	13.55	3.39	17.12	3.46	13.08	NA	21.07	NA
	November	26.17	NA	33.86	3.24	13.70	3.11	18.61	3.28	11.33	NA	NA	NA
	December	15.80	(0.03)	37.59	3.61	13.83	3.05	23.62	4.04	10.05	NA	NA	NA
1980	January	31.14	0.01	39.04	3.86	14.01	3.16	26.43	4.24	33.37	2.15	28.18	NA
	February	26.33	0.01	38.68	4.33	13.90	2.71	25.70	5.13	33.11	4.79	36.47	0.01
	March	29.82	0.01	38.97	4.76	14.07	2.52	25.55	5.15	32.91	7.42	39.00	0.04
	April	34.94	0.04	38.67	5.20	14.12	2.99	25.57	4.96	33.03	9.89	37.52	0.12
	May	34.46	0.03	39.07	5.53	14.21	2.79	25.42	5.38	32.97	12.52	34.60	0.43
	June	33.72	0.02	38.93	5.96	14.37	2.75	25.87	5.34	32.39	14.58	30.29	0.53
	July	21.87	0.00	38.72	6.33	14.37	2.91	25.63	5.88	32.81	16.94	30.34	0.68
	August	33.39	0.03	37.82	6.73	14.65	2.53	25.49	5.77	30.80	20.10	33.48	0.78
	September	27.75	0.15	35.95	6.79	14.83	2.18	25.45	5.58	30.57	22.24	31.53	0.90
	October	29.79	0.04	35.77	7.56	14.77	2.00	25.30	5.80	30.22	24.76	30.68	1.24
	November	32.74	0.09	35.77	8.54	14.87	1.88	25.05	5.86	30.13	27.82	30.51	1.38
	December	30.78	0.05	36.61	8.55	15.05	1.68	26.06	6.05	31.85	30.72	33.03	3.09
	AVERAGE	**30.87**	**0.04**	**37.59**	**6.16**	**14.37**	**2.51**	**25.61**	**5.42**	**31.45**	**16.07**	**32.06**	**0.76**
1981	January	32.24	0.09	37.50	9.23	15.67	1.34	26.84	6.36	32.66	37.38	34.89	6.74
	February	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	March	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AVERAGE	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Geographic coverage: the 50 United States and District of Columbia.
[1]See Explanatory Note 12.
[2]See Definitions.
†Preliminary data. NA = Not available. R = Revised data.
Note: Parentheses indicate negative adjustment to recertify production as heavy oil.
Source: • Economic Regulatory Administration Form 182, "Domestic Crude Oil First Purchase Report."

Price

Domestic Prices and Percentages of Crude Oil Purchased at the Wellhead[1] (continued)

		Lower Tier[2]		Upper Tier[2]		Actual Stripper[3]		Alaskan North Slope[4]		Naval Petroleum Reserve[5]		Actual Domestic Average
		Dollars per barrel										
		Price	Percent	Price	Percent	Price	Percent	Price	Percent	Price	Percent	Price
1976	**AVERAGE**	**5.13**	**54.40**	**11.71**	**31.50**	**12.16**	**14.10**	**NA**	**NA**	**NA**	**NA**	**8.19**
1977	**AVERAGE**	**5.19**	**45.92**	**11.22**	**36.11**	**13.59**	**13.32**	**6.35**	**4.14**	**12.34**	**0.51**	**8.57**
1978	**AVERAGE**	**5.46**	**37.54**	**12.15**	**34.41**	**13.95**	**14.03**	**5.22**	**12.96**	**12.85**	**1.08**	**9.00**
1979	January	5.75	35.51	12.66	34.25	14.55	14.14	5.79	14.88	13.10	1.20	9.46
	February	5.76	35.20	12.78	34.97	14.88	15.08	5.87	13.71	13.94	1.01	9.69
	March	5.82	34.59	12.84	34.56	14.88	14.95	6.66	14.58	13.97	1.29	9.83
	April	5.85	33.98	12.94	34.93	16.71	15.27	7.45	14.52	14.56	1.28	10.33
	May	5.91	33.55	13.02	34.77	17.53	15.62	8.47	14.71	15.85	1.32	10.71
	June	5.95	29.32	13.14	38.22	20.24	15.97	8.97	13.64	16.02	1.34	11.70
	July	5.98	26.96	13.25	37.49	24.76	16.01	13.35	15.86	20.13	1.38	13.39
	August	6.09	26.03	13.33	36.72	25.71	16.93	14.14	15.82	20.77	1.33	14.00
	September	6.09	23.52	13.53	33.89	27.09	16.55	13.09	16.08	20.85	1.57	14.57
	October	6.12	23.46	13.56	32.58	29.42	16.20	13.12	16.27	21.01	1.57	15.11
	November	6.09	23.11	13.68	32.76	30.64	15.35	13.48	17.49	26.48	1.61	15.52
	December	6.21	22.31	13.76	32.52	34.99	16.34	13.60	16.51	29.04	1.60	17.03
	AVERAGE	**5.95**	**28.91**	**13.20**	**34.79**	**22.93**	**15.71**	**10.57**	**15.36**	**19.40**	**1.38**	**12.64**
1980	January	6.24	21.19	13.86	31.12	36.02	15.61	13.77	17.06	28.94	1.54	17.86
	February	6.37	20.52	14.03	29.45	36.14	15.82	13.77	15.73	34.96	1.44	18.81
	March	6.35	19.83	13.99	28.22	36.26	15.18	13.77	15.30	34.67	1.55	19.34
	April	6.37	18.71	14.18	25.87	36.54	15.80	14.07	14.75	33.81	1.61	20.29
	May	6.47	17.62	14.29	25.21	36.11	15.43	14.36	13.48	34.16	1.56	21.01
	June	6.51	16.99	14.42	23.19	35.53	16.14	14.14	12.94	34.00	1.49	21.53
	July	6.55	16.39	14.57	21.88	36.26	16.02	14.26	11.35	33.27	1.58	22.26
	August	6.60	14.79	14.60	20.50	35.71	15.83	14.38	11.28	32.96	1.61	22.63
	September	6.66	14.76	14.79	19.57	33.94	15.89	14.51	10.37	32.45	1.50	22.59
	October	6.78	14.12	14.91	17.41	33.93	16.04	14.64	9.44	32.68	1.53	23.23
	November	6.79	13.25	14.92	15.68	34.42	15.70	14.53	8.52	31.40	1.21	23.92
	December	6.84	10.02	15.10	13.63	34.88	16.36	15.02	7.81	29.93	1.10	25.80
	AVERAGE	**6.51**	**16.62**	**14.37**	**22.70**	**35.48**	**15.82**	**14.18**	**12.36**	**32.85**	**1.48**	**21.19**
1981	January	8.46	7.84	16.08	8.76	35.11	16.07	15.15	4.59	29.27	1.60	28.85
	February[6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	†34.14
	March	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AVERAGE	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Geographic coverage: the 50 United States and District of Columbia.
[1]See Explanatory Note 12.
[2]See Definitions.
[3]Stripper oil was exempt from price controls beginning September 1, 1976. From February through August 1976 stripper oil was subject to upper tier price ceilings. Annual average is for 12 months (January through December 1976).
[4]Alaskan North Slope (ANS) crude oil prices are treated as Upper Tier for determining the applicable wellhead ceiling prices. ANS is included in the Actual Domestic Average price determination.
[5]The Naval Petroleum Reserves (NPR) are exempt from pricing regulations but have been reported here as Upper Tier prior to July 1977. NPR is included in the Actual Domestic Average price determination.
[6]Due to the decontrol order of January 28, 1981, reporting requirements have been reduced. Respondents to ERA Form 182 "Domestic Crude Oil First Purchase Report" are no longer required to report by category.
†Preliminary data. NA=Not available. R=Revised data.
Sources: • January 1976: FEA Form 90, "Crude Petroleum Production Monthly Report."
• February 1976 forward: Economic Regulatory Administration Form 182, "Domestic Crude Oil First Purchase Report."

Price

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

		Algeria	Indonesia	Iran	Libya	Mexico	Nigeria	Saudi Arabia	United Arab Emirates	United Kingdom	Venezuela
						Dollars per barrel					
1976	**AVERAGE**	**13.05**	**12.76**	**11.61**	**12.55**	**NA**	**13.08**	**11.69**	**11.94**	**NA**	**11.32**
1977	**AVERAGE**	**14.36**	**13.57**	**12.67**	**13.90**	**13.42**	**14.44**	**12.37**	**12.83**	**NA**	**12.68**
1978	**AVERAGE**	**14.10**	**13.64**	**12.65**	**13.75**	**13.24**	**14.04**	**12.70**	**13.24**	**13.82**	**12.45**
1979	January	14.87	14.06	12.55	14.60	13.94	14.84	13.26	13.98	15.41	13.69
	February	14.89	14.18	12.56	15.15	14.17	14.98	13.47	14.28	15.33	13.26
	March	15.54	14.42	19.04	16.46	14.14	15.07	13.61	15.72	16.13	13.88
	April	16.80	15.98	17.96	17.40	17.02	18.18	14.77	16.24	17.40	14.58
	May	19.14	16.84	17.27	19.13	18.56	20.02	14.62	17.38	18.39	15.76
	June	21.04	18.59	19.95	20.87	17.43	22.11	17.98	18.91	20.88	16.01
	July	22.42	20.95	21.99	23.88	22.29	24.46	18.54	21.33	23.14	18.22
	August	23.44	21.65	21.40	24.93	22.56	25.43	18.32	21.45	23.88	18.66
	September	23.60	22.11	27.27	25.17	22.32	25.77	18.72	22.93	22.93	18.14
	October	24.40	24.39	31.80	27.39	24.43	26.33	21.44	21.85	25.09	22.36
	November	26.38	23.72	28.81	29.60	24.50	28.17	23.72	24.15	27.57	19.27
	December	28.67	25.29	35.13	31.86	24.50	29.82	22.99	27.90	25.89	20.62
	AVERAGE	**20.65**	**19.35**	**23.71**	**22.43**	**20.29**	**21.80**	**17.63**	**19.58**	**21.20**	**17.37**
1980	January	33.67	29.67	29.28	35.72	29.43	31.57	26.25	29.85	30.77	25.34
	February	34.03	31.11	NA	35.71	31.77	33.39	26.62	30.95	32.66	24.82
	March	36.74	31.54	NA	35.88	30.56	35.59	26.85	29.34	34.34	24.03
	April	36.93	32.22	NA	35.30	30.24	36.11	27.78	30.38	34.15	23.85
	May	37.10	32.40	NA	36.13	30.68	36.50	28.50	32.67	34.10	24.82
	June	37.61	32.90	NA	36.83	30.76	36.99	28.95	33.34	36.28	25.56
	July	38.40	33.19	NA	37.26	31.84	37.17	28.47	NA	36.26	24.34
	August	37.53	33.01	NA	37.01	31.87	36.69	29.74	NA	34.83	25.30
	September	37.21	33.13	NA	36.94	31.21	36.38	30.34	NA	35.18	24.21
	October	37.60	32.31	NA	37.15	31.27	36.82	30.19	NA	35.66	22.71
	November	37.05	32.94	NA	36.90	31.59	36.87	31.43	NA	35.47	26.83
	December	37.37	33.21	NA	37.58	32.33	36.79	32.01	NA	35.00	26.66
	AVERAGE	**36.57**	**32.37**	**NA**	**36.41**	**31.11**	**35.82**	**28.53**	**NA**	**34.58**	**24.78**
1981	January	39.37	36.54	NA	40.52	35.88	40.11	32.39	NA	38.34	32.87
	February	R40.13	R36.13	NA	R40.73	R36.57	R40.03	R32.60	NA	R39.41	R30.36
	March†	40.30	36.89	NA	40.18	35.57	39.75	32.66	NA	39.50	31.24

Note: Prices shown for 1980 are for the month of loading; whereas prior to 1980 the prices are for the month of reporting.
[1]The FOB cost excludes all costs related to insurance and transportation. See Explanatory Note 14.
NA = Not available.
†Preliminary data. R = Revised data.
Sources: 1976 through January 1979: FEA Form 701-M-0, "Transfer Pricing Report."
• February 1979 forward: Economic Regulatory Administration Form 51, "Transfer Pricing Report."

Price

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

		Algeria	Canada	Indonesia	Iran	Libya	Mexico	Nigeria	Saudi Arabia	United Arab Emirates	United Kingdom	Venezuela
							Dollars per barrel					
1975	**AVERAGE**	**12.72**	**12.72**	**13.79**	**12.21**	**12.35**	**NA**	**12.62**	**12.30**	**12.87**	**NA**	**11.65**
1976	**AVERAGE**	**13.81**	**13.57**	**13.82**	**12.82**	**13.58**	**NA**	**13.80**	**13.04**	**13.30**	**NA**	**11.80**
1977	**AVERAGE**	**15.20**	**14.21**	**14.63**	**13.80**	**14.87**	**13.75**	**15.25**	**13.61**	**14.04**	**NA**	**13.13**
1978	**AVERAGE**	**14.91**	**14.50**	**14.64**	**13.88**	**14.72**	**13.54**	**14.86**	**13.92**	**14.39**	**NA**	**12.83**
1979	January	15.88	16.19	15.29	13.76	15.81	14.51	15.88	14.73	15.53	16.29	14.16
	February	16.18	16.68	15.62	14.25	16.49	14.76	16.13	14.88	16.05	16.07	14.17
	March	16.61	17.18	15.68	19.54	17.56	14.81	16.20	15.28	17.10	15.91	14.61
	April	17.93	17.39	17.31	19.06	18.59	17.40	19.11	16.18	17.70	18.23	15.19
	May	20.22	20.22	17.92	18.56	20.16	18.82	21.06	16.29	18.65	19.26	16.74
	June	22.52	19.12	20.11	21.27	22.21	17.85	23.23	19.49	20.42	21.64	16.80
	July	23.54	20.22	22.50	23.35	25.48	22.74	25.79	20.06	22.84	23.96	18.95
	August	24.85	22.67	23.10	22.64	26.27	23.12	26.72	19.85	23.12	25.05	19.42
	September	25.09	25.64	23.72	28.36	26.54	23.23	27.03	20.36	24.59	24.18	18.99
	October	25.59	23.54	26.36	33.17	28.56	24.98	27.41	22.99	23.98	26.39	23.05
	November	27.95	26.01	25.37	30.44	30.38	25.12	29.41	25.19	25.95	29.10	20.13
	December	29.99	26.32	26.84	36.64	33.29	25.31	31.21	24.48	29.93	27.07	21.72
	AVERAGE	**21.90**	**20.43**	**20.69**	**25.02**	**23.68**	**20.86**	**22.96**	**19.15**	**21.90**	**22.16**	**18.18**
1980	January	35.32	27.73	31.03	30.37	37.10	30.18	33.03	27.85	32.35	32.14	26.25
	February	35.28	28.60	32.95	NA	36.98	32.38	35.25	28.15	32.71	34.07	25.91
	March	38.54	30.75	33.04	NA	37.18	31.17	36.93	28.26	30.96	35.73	24.97
	April	38.52	30.31	33.81	NA	36.57	30.77	37.41	29.14	32.29	35.34	25.10
	May	38.54	31.16	33.73	NA	37.36	31.22	37.53	30.30	34.06	35.82	25.93
	June	38.71	31.26	34.51	NA	38.09	31.43	38.15	30.16	34.96	37.41	26.42
	July	39.60	31.31	34.81	NA	38.39	32.60	38.23	30.04	NA	37.25	25.47
	August	38.60	31.44	34.81	NA	38.38	32.62	37.77	31.24	NA	36.20	26.37
	September	38.28	30.97	34.64	NA	38.30	31.93	37.60	31.86	NA	36.35	25.47
	October	38.77	29.22	33.65	NA	38.53	31.96	37.75	31.73	NA	36.82	23.92
	November	38.41	28.81	34.55	NA	38.22	32.42	37.97	32.86	NA	36.62	27.75
	December	38.63	32.72	34.64	NA	39.04	33.76	38.11	33.40	NA	36.31	27.66
	AVERAGE	**37.90**	**30.47**	**33.92**	**NA**	**37.72**	**31.80**	**37.05**	**30.02**	**NA**	**35.88**	**25.86**
1981	January	41.25	34.26	38.08	NA	41.81	36.81	41.55	34.06	NA	39.90	33.80
	February	R41.90	33.73	R37.86	NA	R42.19	R37.23	R41.46	34.38	NA	R40.69	R31.20
	March†	41.62	33.88	38.50	NA	41.54	36.38	40.92	34.27	NA	40.72	32.09

Note: Prices shown for 1980 are for the month of loading; whereas prior to 1980 prices are for the month of reporting.
[1]See Explanatory Note 15.
†Preliminary data. NA = Not available.
Sources: • 1975 through January 1979: FEA Form F701-M-0, "Transfer Pricing Report." Data provided by the Economic Regulatory Administration.
• February 1979 forward: ERA 51, "Transfer Pricing Report."

Price

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

		Leaded Regular	Unleaded Regular	Leaded Premium	Average for All Grades
		Cents per gallon, including tax			
1974	**AVERAGE**	**53.2**	**NA**	**56.9**	**NA**
1975	**AVERAGE**	**56.7**	**NA**	**60.9**	**NA**
1976	**AVERAGE**	**59.0**	**61.4**	**63.6**	**NA**
1977	**AVERAGE**	**62.2**	**65.6**	**67.4**	**NA**
1978	**AVERAGE**	**62.6**	**67.0**	**69.4**	**65.2**
1979	January	66.8	71.6	73.7	69.5
	February	68.1	73.0	75.0	70.7
	March	70.6	75.5	77.4	73.3
	April	75.3	80.2	82.4	78.0
	May	79.7	84.4	86.7	82.3
	June	85.6	90.1	92.0	88.0
	July	90.8	94.9	96.5	93.0
	August	94.3	98.8	100.4	96.7
	September	97.3	102.0	103.6	99.8
	October	98.2	102.8	104.6	100.6
	November	99.4	104.1	105.6	101.9
	December	101.8	106.5	108.0	104.2
	AVERAGE	**85.7**	**90.3**	**92.2**	**88.2**
1980	January	108.6	113.1	114.9	111.0
	February	115.9	120.7	123.3	118.6
	March	120.2	125.2	127.7	123.0
	April	121.2	126.4	129.2	124.2
	May	121.5	126.6	129.5	124.4
	June	121.7	126.9	130.0	124.6
	July	121.6	127.1	130.7	124.7
	August	121.0	126.7	131.0	124.3
	September	119.7	125.7	130.4	123.1
	October	118.8	125.0	130.1	122.3
	November	118.8	125.0	129.9	122.2
	December	119.7	125.8	131.0	123.1
	AVERAGE	**119.1**	**124.5**	**128.1**	**122.1**
1981	January	123.8	129.8	133.8	126.9
	February	132.1	138.2	141.0	135.3
	March	135.2	141.7	144.9	138.8
	April	134.4	141.2	145.1	138.1

Geographic coverage: 1974 through 1977—56 urban areas; 1978 forward—85 urban areas.
[1]See Explanatory Note 16.
Source: Bureau of Labor Statistics.

Price

Aviation Fuel

		Aviation Gasoline		Naphtha-Type[1]	Kerosene-Type	
		Wholesale[2]	Retail[2]	Retail[2]	Wholesale[2]	Retail[2]
		Cents per gallon, excluding tax				
1976	**AVERAGE**	**42.4**	**43.1**	**31.5**	**32.5**	**31.2**
1977	**AVERAGE**	**46.7**	**47.7**	**35.0**	**36.7**	**35.8**
1978	**AVERAGE**	**51.0**	**52.1**	**37.5**	**38.9**	**38.9**
1979	January	54.1	53.9	38.6	42.2	40.1
	February	54.6	55.1	39.1	44.3	40.2
	March	56.6	56.8	40.7	54.8	41.3
	April	58.2	59.1	43.2	60.1	45.4
	May	60.6	61.2	44.1	58.1	48.4
	June	64.8	66.8	49.5	59.9	50.9
	July	70.0	71.8	50.4	67.1	58.2
	August	74.2	75.6	55.0	71.4	60.8
	September	78.2	79.0	60.2	73.1	65.9
	October	79.8	80.4	64.6	80.6	68.4
	November	81.3	80.6	66.4	83.4	69.7
	December	84.1	83.4	73.3	83.2	72.3
	AVERAGE	**68.5**	**69.5**	**52.3**	**66.5**	**55.1**
1980	January	90.6	90.0	76.0	83.4	77.0
	February	98.5	97.8	80.1	86.2	83.0
	March	102.9	107.0	84.1	86.6	86.3
	April	104.8	109.6	83.2	88.4	87.4
	May	106.2	109.7	89.1	89.0	87.6
	June	107.7	111.4	90.0	86.1	88.6
	July	109.3	113.4	91.4	88.3	89.7
	August	110.2	112.9	90.6	86.2	90.7
	September	110.8	113.3	92.9	86.4	88.8
	October	110.8	113.0	91.1	87.6	88.7
	November	112.4	113.0	92.5	89.9	91.0
	December	115.1	117.2	94.1	91.4	91.6
	AVERAGE	**107.2**	**109.4**	**88.2**	**87.5**	**87.4**
1981	January	118.9	121.6	R99.2	R97.1	95.7
	February†	121.4	128.3	102.7	105.0	101.6
	AVERAGE	**120.2**	**124.6**	**100.9**	**100.8**	**98.4**

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

Price

National Average Heating Oil Prices[1]

		Refiners' Average Selling Price to Resellers and Retailers	Average Purchase Price Paid by Distributors for Heating Oil[2]	Average Distributor Margin on Residential Heating Oil[2]	Average Selling Price to Residential Customers[2]
		Cents per gallon			
1976	**AVERAGE**	**31.4**	**32.6**	**NA**	**40.6**
1977	**AVERAGE**	**35.7**	**36.9**	**NA**	**46.0**
1978	**AVERAGE**	**37.2**	**38.7**	**11.0**	**49.4**
1979	January	40.9	42.1	11.8	53.7
	February	43.1	44.5	12.0	56.3
	March	45.8	47.0	12.0	58.8
	April	48.3	49.3	12.1	61.1
	May	53.2	52.6	12.1	64.2
	June	58.8	56.9	12.7	69.1
	July	62.5	61.1	13.0	73.8
	August	65.7	64.6	13.0	78.4
	September	69.0	67.8	13.7	81.0
	October	68.6	68.1	14.8	82.3
	November	70.0	69.0	15.1	83.7
	December	71.7	70.8	15.5	85.8
	AVERAGE	**55.9**	**53.0**	**12.8**	**65.6**
1980	January	75.0	75.2	16.2	90.8
	February	77.8	79.0	16.7	95.3
	March	78.8	80.4	17.1	97.1
	April	78.8	81.0	17.0	97.4
	May	79.3	81.4	16.3	97.2
	June	80.2	82.5	15.8	97.9
	July	79.2	83.0	15.3	97.9
	August	79.3	82.9	15.2	97.9
	September	79.3	83.0	15.4	98.1
	October	80.7	83.7	15.3	98.7
	November	84.0	86.1	13.8	101.1
	December	88.6	91.3	14.1	106.5
	AVERAGE	**80.0**	**82.2**	**15.8**	**97.8**
1981	January	94.9	98.6	15.1	114.4
	February	R102.5	106.0	R16.1	R123.4
	March†	103.3	106.3	17.5	125.5

Geographic coverage: the 50 United States and District of Columbia.
[1]See Explanatory Note 17.
[2]Average selling prices, purchase prices, and dealer margins represent sales for residential heating oil only.
†Preliminary data. R = Revised data. NA = Not available.
Source: • FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" for 1976 through October 1980. EIA-9A, "No. 2 Distillate Price Monitoring Report, for 1976 through October 1980." EIA-9A, "No. 2 Distillate Price Monitoring Report" for November 1980 forward.

Price

Residential Heating Oil Prices by Region

		DOE Region[1]									
		Cents per gallon									
		1	2	3	4	5	6	7	8	9	10
1979	January	55.1	54.5	53.3	51.6	51.5	NA	49.6	50.4	47.6	50.8
	February	57.7	57.3	55.5	53.2	53.7	NA	51.3	51.4	49.4	52.9
	March	60.6	59.8	57.5	54.3	56.3	NA	54.7	55.3	50.8	55.3
	April	62.8	61.9	60.0	57.3	58.8	NA	58.2	58.4	53.8	57.8
	May	65.9	64.8	63.4	61.2	62.8	NA	62.0	62.7	56.2	60.8
	June	70.5	69.7	68.4	66.2	68.5	NA	68.9	67.8	62.2	66.4
	July	75.9	73.9	72.9	70.9	73.2	NA	72.0	72.5	68.4	72.3
	August	80.1	78.6	77.7	74.8	78.5	NA	76.4	77.1	71.7	77.2
	September	83.3	81.4	80.0	79.4	81.5	NA	79.5	80.1	76.8	81.4
	October	84.1	82.5	81.7	79.1	82.6	NA	80.2	81.3	81.2	82.6
	November	85.1	83.7	82.4	80.5	83.9	NA	82.2	84.0	80.4	82.3
	December	87.2	85.7	85.1	82.9	86.1	NA	85.3	86.3	82.6	84.6
1980	January	91.8	91.0	90.2	88.6	90.4	NA	90.0	90.2	89.6	91.0
	February	96.7	95.3	94.7	93.0	93.5	NA	93.6	93.5	95.8	95.7
	March	98.7	97.2	96.5	94.8	94.3	NA	95.1	95.9	93.9	97.6
	April	99.2	97.3	96.6	94.1	94.5	NA	95.3	99.5	94.7	99.0
	May	98.7	97.3	96.4	94.2	95.8	NA	95.2	97.7	95.5	98.6
	June	99.8	97.9	96.8	95.1	95.8	NA	95.3	98.4	96.0	99.8
	July	100.3	98.1	96.6	94.2	96.2	NA	93.1	97.0	96.7	100.2
	August	100.2	97.9	96.8	94.8	95.7	NA	95.4	92.1	99.7	100.4
	September	100.5	98.2	97.0	94.7	95.7	NA	93.7	93.0	97.2	100.6
	October	101.1	98.8	97.4	95.6	95.9	NA	94.7	94.1	98.6	100.4
	November	102.5	103.0	99.9	101.5	98.8	NA	95.2	98.5	101.0	103.1
	December	108.2	108.5	105.3	106.6	103.4	NA	99.6	101.8	NA	105.6
1981	January	116.2	117.1	113.2	114.0	110.4	NA	106.3	108.6	NA	107.5
	February	R125.8	R126.6	R123.0	R124.4	R117.8	NA	R114.2	R113.1	NA	R113.7
	March†	127.6	128.6	125.0	125.2	119.3	NA	115.3	119.5	111.5	117.0

[1]DOE Regions are defined in Explanatory Note 18.
†Preliminary data. R = Revised data.
NA = Not available. Data for Region 6 are based on a sample of less than four reporting firms.
Source: • FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report"for 1979 through October 1980. EIA-9A,"No. 2 Distillate Price Monitoring Report" for November 1980 forward.

Price

Average No. 6 Residual Fuel Oil Prices

		0.0 to 0.3 percent sulfur		0.31 to 1.0 percent sulfur		Greater than 1.0 percent sulfur		Average	
		Wholesale	Retail	Wholesale	Retail	Wholesale	Retail	Wholesale	Retail
		Dollars per barrel, excluding taxes							
1976	**AVERAGE**	**12.20**	**12.54**	**10.83**	**11.79**	**9.98**	**10.43**	**10.72**	**11.49**
1977	**AVERAGE**	**13.45**	**14.36**	**12.09**	**13.45**	**11.31**	**12.27**	**11.96**	**13.23**
1978	**AVERAGE**	**12.77**	**14.47**	**11.95**	**12.78**	**10.73**	**11.70**	**11.51**	**12.75**
1979	January	15.16	16.12	13.68	14.79	11.00	11.92	12.78	14.13
	February	16.12	17.28	15.01	15.30	11.31	12.28	13.72	14.68
	March	16.08	18.05	15.90	16.94	13.48	14.00	14.82	15.95
	April	17.79	19.09	16.34	17.44	13.70	14.59	15.51	16.61
	May	18.04	19.45	15.74	17.89	14.69	15.37	15.71	17.18
	June	20.92	19.79	18.08	18.51	15.95	16.40	17.81	17.97
	July	21.85	23.07	21.25	20.47	16.51	17.86	19.18	19.89
	August	21.05	22.63	19.49	21.28	17.51	18.32	19.00	20.33
	September	21.81	22.92	21.01	21.66	17.54	18.94	19.62	20.90
	October	23.80	23.29	22.99	22.33	18.31	19.53	20.88	21.59
	November	26.68	25.54	24.07	24.31	19.31	19.51	22.00	22.84
	December	27.09	27.78	25.83	25.01	20.67	21.05	23.55	24.44
	AVERAGE	**19.87**	**21.21**	**18.33**	**19.33**	**15.89**	**16.44**	**17.66**	**18.67**
1980	January	29.11	30.35	26.15	28.12	21.56	21.98	24.41	26.21
	February	27.07	30.32	25.82	28.15	20.21	22.22	23.34	26.48
	March	26.88	30.20	23.73	27.29	17.81	20.34	21.11	25.33
	April	25.16	28.69	20.38	24.78	16.41	18.36	19.09	22.87
	May	25.48	31.73	22.72	25.77	17.72	18.04	20.22	23.75
	June	23.14	31.37	22.35	25.44	17.72	19.27	20.44	24.09
	July	24.89	28.51	23.44	25.55	19.20	20.58	21.28	23.86
	August	23.20	30.93	24.98	26.11	20.42	21.45	22.25	25.00
	September	24.27	33.12	23.46	26.31	20.62	21.71	22.47	25.31
	October	25.72	31.88	25.86	28.00	22.30	23.29	24.06	26.68
	November	29.52	33.70	29.40	30.89	27.08	27.50	28.12	30.10
	December	31.69	35.76	31.29	32.61	28.39	30.03	29.76	32.33
	AVERAGE	**26.41**	**31.13**	**24.91**	**27.59**	**20.77**	**22.11**	**23.14**	**26.09**
1981	January	R34.27	R37.23	R32.12	R33.96	R29.12	R31.35	R31.14	R33.65
	February†	36.38	41.73	35.02	37.52	28.74	31.85	31.27	35.94
	AVERAGE	**35.18**	**39.29**	**33.33**	**35.42**	**29.03**	**31.67**	**31.18**	**34.69**

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

Price

Natural Gas

		Average Wellhead Value	Delivered to Electric Plant[1]	Average Residental Heating
		Cents per thousand cubic feet		
1973	**AVERAGE**	**21.6**	**35.0**	**108.2**
1974	**AVERAGE**	**30.4**	**49.0**	**125.3**
1975	**AVERAGE**	**44.5**	**76.9**	**154.2**
1976	**AVERAGE**	**58.0**	**105.9**	**184.6**
1977	**AVERAGE**	**79.0**	**133.4**	**226.4**
1978	**AVERAGE**	**90.5**	**147.9**	**262.6**
1979	January	102.0	154.7	292.9
	February	104.9	164.8	295.6
	March	109.5	168.6	300.6
	April	110.6	169.6	299.6
	May	115.0	182.2	314.9
	June	116.6	183.9	320.0
	July	119.6	184.0	328.4
	August	123.6	187.0	330.8
	September	123.5	189.4	341.4
	October	128.1	195.7	352.8
	November	128.7	186.9	347.6
	December	131.0	190.0	351.9
	AVERAGE	**117.8**	**180.3**	**323.1**
1980	January	134.4	201.1	354.9
	February	139.5	210.5	357.9
	March	141.3	214.7	368.1
	April	143.4	210.4	367.8
	May	145.2	218.1	393.9
	June	145.8	216.4	394.8
	July	152.8	237.3	410.6
	August	152.8	245.6	413.1
	September	157.4	245.6	417.0
	October	159.4	253.4	420.6
	November	163.3	238.4	396.1
	December	162.2	232.7	403.3
	AVERAGE	**149.6**	**212.8**	**391.5**
1981	January	167.6	258.8	406.9
	February	171.3	268.9	409.3
	March	NA	NA	417.4

Geographic coverage: the 50 United States and District of Columbia.
[1]Includes all electric utility generating plants with a combined capacity for 25 megawatts or greater. Small quantities of coke oven gas, refinery gas and blast furnace gas are included.
NA = Not available.
Sources: • Annual data for wellhead values are from the appropriate agencies of the individual producing states and the U.S. Geological Survey; monthly data are estimated primarily on the basis of values reported by state agencies in New Mexico, Oklahoma, and Texas.
• Electric Plant data are from Federal Power Commission Form 423,"Monthly Report of Cost and Quantity of Fuels for Electric Plants."
• Average residential heating prices, Bureau of Labor Statistics.

Price

Electricity

		Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants				Average Retail Electricity Prices[1]				
		Coal	Residual Oil[2]	Natural Gas[3]	All Fossil Fuels[2]	Residential	Commercial	Industrial	Other	Total[4]
		Cents per million Btu				Cents per kilowatt-hour				
1973	**AVERAGE**	**40.5**	**78.8**	**33.8**	**47.5**	**2.54**	**2.41**	**1.25**	**2.10**	**1.96**
1974	**AVERAGE**	**71.0**	**191.0**	**48.1**	**90.9**	**3.10**	**3.04**	**1.69**	**2.75**	**2.49**
1975	**AVERAGE**	**81.4**	**201.4**	**75.4**	**103.0**	**3.51**	**3.45**	**2.07**	**3.08**	**2.92**
1976	**AVERAGE**	**84.8**	**195.9**	**103.4**	**110.4**	**3.73**	**3.69**	**2.21**	**3.27**	**3.09**
1977	**AVERAGE**	**94.7**	**220.4**	**130.0**	**127.7**	**4.05**	**4.09**	**2.50**	**3.51**	**3.42**
1978	**AVERAGE**	**111.6**	**212.3**	**143.8**	**139.3**	**4.31**	**4.36**	**2.79**	**3.62**	**3.69**
1979	January	115.8	228.1	150.2	150.4	4.07	4.28	2.81	3.55	3.64
	February	114.6	240.6	159.1	154.3	4.09	4.30	2.85	3.73	3.66
	March	116.8	258.8	163.0	152.3	4.28	4.44	2.91	3.87	3.76
	April	120.1	264.6	164.7	151.4	4.51	4.54	2.92	3.87	3.82
	May	121.1	274.1	177.5	158.0	4.69	4.65	2.98	3.98	3.91
	June	121.8	289.3	179.5	161.2	4.88	4.73	3.04	4.05	4.03
	July	122.2	311.8	178.9	168.7	4.92	4.77	3.13	4.22	4.15
	August	122.5	323.5	180.9	167.1	4.94	4.79	3.13	3.88	4.18
	September	125.3	333.5	183.5	167.9	4.96	4.84	3.15	4.07	4.19
	October	127.4	346.1	189.1	167.3	5.01	4.94	3.19	4.07	4.19
	November	127.7	363.1	180.3	171.5	4.84	4.92	3.19	4.14	4.14
	December	129.2	394.8	183.3	183.8	4.72	4.90	3.27	4.19	4.18
	AVERAGE	**122.4**	**299.7**	**175.4**	**162.1**	**4.64**	**4.68**	**3.05**	**3.96**	**3.99**
1980	January	128.7	423.5	194.8	187.3	4.69	4.90	3.32	4.19	4.21
	February	129.9	429.7	203.9	189.8	4.74	4.97	3.32	4.63	4.25
	March	130.1	411.0	207.9	184.8	4.92	5.17	3.45	4.69	4.40
	April	133.8	394.9	204.0	178.2	5.14	5.28	3.49	4.71	4.48
	May	133.3	403.1	212.0	180.3	5.41	5.44	3.59	4.97	4.63
	June	135.1	392.7	209.3	178.8	5.60	5.61	3.79	4.58	4.85
	July	137.4	394.5	228.5	199.0	5.66	5.65	3.93	4.93	5.03
	August	139.5	404.9	237.2	196.2	5.72	5.64	3.94	4.81	5.07
	September	138.9	411.3	238.7	193.5	5.71	5.73	3.88	4.95	5.03
	October	138.1	452.2	245.7	192.2	5.68	5.84	3.84	4.88	4.95
	November	139.3	496.0	231.3	200.0	5.61	5.71	3.85	5.06	4.89
	December	137.8	521.9	226.3	206.6	5.49	5.69	3.88	4.82	4.90
	AVERAGE	**135.2**	**427.9**	**212.9**	**189.3**	**5.36**	**5.48**	**3.69**	**4.76**	**4.73**
1981	January	142.3	540.2	254.1	221.3	5.44	5.73	3.94	4.92	4.96
	February	146.3	572.9	260.5	218.4	5.52	5.83	3.95	5.01	4.99
	March	NA	NA	NA	NA	5.76	6.01	4.04	5.33	5.12

Geographic coverage: Fossil Fuels — the lower 48 States and the District of Columbia. Electricity — the 50 United States and the District of Columbia.
[1]Prices are for selected Classes A and B privately-owned electric utilities.
[2]See Explanatory Note 19.
[3]Includes small quantities of coke oven gas, refinery gas and blast furnace gas.
[4]Average price for total sales to ultimate consumers.
NA = Not available.
Sources: • Cost of Fossil Fuels, Federal Power Commission, Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." • Retail Price, January 1973 thru February 1980: Federal Power Commission, Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: Federal Energy Regulatory Commission, Form 5, "Electric Utility Company Monthly Statement."

International

Crude Oil Production

World crude oil production during February 1981 was 58.2 million barrels per day, up 0.1 million barrels per day from the January 1981 level.

OPEC output during February increased slightly from the previous month, averaging 25.1 million barrels per day. Average production from Arab members of OPEC was down 0.1 million barrels per day from January 1981 at 17.3 million barrels per day. In February, both Iran and Iraq continued to expand their average production levels. Iran, at 1.7 million barrels per day, was up 0.1 million barrels per day from January 1981 and matched their pre-war output figure for July 1980. Iraq's output was up 0.1 million barrels per day also, but at only 0.7 million barrels per day it is still only producing at less than one-fourth of its pre-war average. Kuwait decreased their average production in February by 0.2 million barrels per day to 1.6 million barrels per day. Other OPEC nations maintained production in February at about the same level as that of the previous month.

Production by non-OPEC nations as a group remained constant at 33.0 million barrels per day in February. Mexico showed a decrease of 0.1 million barrels per day from the January level.

Petroleum Consumption

Petroleum consumption by International Energy Agency (IEA) member nations was 35.5 million barrels per day during December 1980. This preliminary figure was an increase of 3.5 million barrels per day from the consumption rate during November 1980, and a 1.8 million barrels per day decrease from the December 1979 rate of 37.3 million barrels per day.

Preliminary consumption data for March 1981 were available for France, and the United States. Both France and the United States had lower consumption levels. For 1980 the data indicate a significant decline in the consumption rates for the group of IEA nations of 2.9 million barrels per day from 1979.

Nuclear Electricity Production

In March 1981, 18 non-Communist countries generated 62.2 billion gross kilowatt-hours of nuclear-based electricity, an increase of 5.8 percent over February 1981 production. However, on a per-day basis, March production was down from February output by 4.5 percent. March 1981 output for these 18 "free world" nations was 16.5 percent greater than the comparable output for March 1980. U.S. nuclear electricity generation for March 1981 was 23.1 billion gross kilowatt-hours, about 37.1 percent of the "free world" total for the month.

As of March 31, 1981, these "free world" countries operated a total of 214 power reactor units which were authorized to generate electricity commercially. Only one reactor went into commercial operation in March, i.e., Japan's Genkai-2 unit (559 megawatts). This reactor had been generating electricity since June 1980, necessitating revisions to the accompanying "Nuclear Electricity Generation by Non-Communist Countries" Table.

International

Crude Oil Production for Major Petroleum Exporting Countries

		Algeria	Iraq	Kuwait[1]	Libya	Qatar	Saudi Arabia[1]	United Arab Emirates	Arab Members of OPEC[2]	Indonesia	Iran
		Thousand barrels per day									
1973	**AVERAGE**	**1,070**	**2,018**	**3,020**	**2,175**	**570**	**7,596**	**1,533**	**17,982**	**1,339**	**5,860**
1974	**AVERAGE**	**960**	**1,971**	**2,546**	**1,521**	**518**	**8,480**	**1,679**	**17,675**	**1,375**	**6,022**
1975	**AVERAGE**	**960**	**2,262**	**2,084**	**1,480**	**438**	**7,075**	**1,664**	**15,963**	**1,307**	**5,350**
1976	**AVERAGE**	**1,020**	**2,415**	**2,145**	**1,933**	**497**	**8,577**	**1,936**	**18,523**	**1,504**	**5,863**
1977	**AVERAGE**	**1,100**	**2,350**	**1,980**	**2,065**	**445**	**9,210**	**2,000**	**19,150**	**1,685**	**5,665**
1978	**AVERAGE**	**1,160**	**2,560**	**2,135**	**1,985**	**485**	**8,300**	**1,830**	**18,455**	**1,635**	**5,240**
1979	January	1,235	3,535	2,605	2,165	550	9,790	1,840	21,720	1,600	410
	February	1,235	3,535	2,695	2,150	555	9,780	1,835	21,785	1,615	760
	March	1,235	3,535	2,580	2,070	370	9,780	1,830	21,400	1,625	2,190
	April	1,235	3,535	2,535	2,060	550	8,790	1,755	20,460	1,605	3,800
	May	1,235	3,535	2,575	2,040	540	8,780	1,860	20,565	1,565	4,100
	June	1,235	3,535	2,575	2,015	455	8,780	1,870	20,465	1,610	3,950
	July	1,035	3,335	2,540	2,070	520	9,780	1,835	21,115	1,600	3,750
	August	1,035	3,335	2,515	2,080	535	9,770	1,835	21,105	1,595	3,600
	September	1,035	3,335	2,365	2,020	455	9,780	1,840	20,830	1,575	3,600
	October	1,035	3,335	2,365	2,030	490	9,725	1,785	20,765	1,570	3,930
	November	1,035	3,335	2,435	2,085	525	9,795	1,870	21,080	1,570	3,170
	December	1,035	3,335	2,240	2,090	545	9,775	1,875	20,895	1,565	3,000
	AVERAGE	**1,154**	**3,477**	**2,500**	**2,092**	**508**	**9,532**	**1,831**	**21,094**	**1,591**	**3,168**
1980	January	1,150	3,400	2,140	2,100	495	9,785	1,740	20,810	1,565	2,295
	February	1,150	3,400	2,335	2,100	460	9,780	1,740	20,965	1,550	2,500
	March	1,150	3,400	2,090	2,000	500	9,790	1,695	20,625	1,575	2,350
	April	1,000	3,300	1,570	1,750	500	9,765	1,705	19,590	1,580	2,200
	May	1,000	3,300	1,525	1,750	480	9,775	1,765	19,595	1,550	1,700
	June	1,000	3,300	1,575	1,700	440	9,775	1,750	19,540	1,545	1,500
	July	1,000	3,100	1,365	1,680	460	9,765	1,710	19,080	1,565	1,700
	August	1,000	3,100	1,465	1,690	465	9,765	1,665	19,150	1,565	1,600
	September	1,000	3,000	1,290	1,680	460	9,740	1,670	18,840	1,565	1,400
	October	1,000	150	1,385	1,665	440	10,255	1,675	16,540	1,585	600
	November	1,000	350	1,505	1,680	475	10,265	1,695	16,930	1,630	800
	December	1,000	450	1,779	1,680	483	10,260	1,706	17,360	1,617	1,360
	AVERAGE	**1,012**	**2,514**	**1,656**	**1,787**	**472**	**9,900**	**1,709**	**19,050**	**1,577**	**1,662**
1981	January	1,000	600	1,765	1,600	505	10,265	1,620	17,355	1,635	1,600
	February	1,000	700	1,565	1,650	480	10,265	1,605	17,265	1,625	1,700

Note: Data for 1980 and 1981 are preliminary.
[1]Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In February 1981 total production in this region amounted to approximately 526,000 barrels per day.
[2]Arab members of OPEC include Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.
Additional footnotes on following page.

International

Crude Oil Production for Major Petroleum Exporting Countries (continued)

		Nigeria	Venezuela	Total OPEC[3]	Canada	Mexico	United Kingdom	United States	China	USSR	Other[4]	World
						Thousand barrels per day						
1973	**AVERAGE**	**2,054**	**3,366**	**30,961**	**1,800**	**450**	**8**	**9,208**	**1,140**	**8,420**	**3,843**	**55,830**
1974	**AVERAGE**	**2,255**	**2,976**	**30,683**	**1,695**	**580**	**9**	**8,774**	**1,310**	**9,020**	**3,805**	**55,875**
1975	**AVERAGE**	**1,783**	**2,346**	**27,134**	**1,420**	**720**	**20**	**8,375**	**1,490**	**9,630**	**4,201**	**52,990**
1976	**AVERAGE**	**2,067**	**2,294**	**30,711**	**1,300**	**800**	**245**	**8,132**	**1,735**	**10,170**	**4,302**	**57,395**
1977	**AVERAGE**	**2,085**	**2,240**	**31,230**	**1,320**	**980**	**770**	**8,245**	**1,875**	**10,700**	**4,490**	**59,610**
1978	**AVERAGE**	**1,895**	**2,165**	**29,800**	**1,315**	**1,215**	**1,080**	**8,707**	**2,080**	**11,215**	**4,698**	**60,190**
1979	January	2,440	2,265	28,880	1,450	1,395	1,465	8,475	2,120	11,370	4,725	59,880
	February	2,430	2,345	29,380	1,575	1,400	1,505	8,525	2,120	11,370	4,595	60,470
	March	2,440	2,425	30,515	1,405	1,310	1,335	8,601	2,120	11,370	5,214	61,870
	April	2,420	2,385	31,095	1,510	1,400	1,460	8,553	2,120	11,510	4,862	62,510
	May	2,400	2,385	31,445	1,465	1,405	1,645	8,601	2,120	11,110	4,679	62,470
	June	2,420	2,245	31,115	1,465	1,440	1,745	8,432	2,120	11,460	4,743	62,520
	July	2,380	2,325	31,515	1,520	1,440	1,710	8,364	2,120	11,400	5,621	63,690
	August	2,185	2,325	31,230	1,450	1,460	1,640	8,548	2,120	11,560	5,322	63,330
	September	2,115	2,365	30,895	1,490	1,475	1,675	8,523	2,120	11,460	5,072	62,710
	October	2,135	2,370	31,180	1,545	1,515	1,615	8,621	2,120	11,630	5,099	63,325
	November	2,150	2,390	30,770	1,525	1,620	1,520	8,761	2,120	11,700	5,124	63,140
	December	2,150	2,410	30,430	1,545	1,660	1,545	8,615	2,120	11,700	5,005	62,620
	AVERAGE	**2,302**	**2,356**	**30,928**	**1,495**	**1,460**	**1,570**	**8,552**	**2,120**	**11,470**	**4,824**	**62,400**
1980	January	2,155	2,280	29,535	1,515	1,720	1,600	8,648	2,115	11,560	5,042	61,735
	February	2,160	2,200	29,805	1,475	1,725	1,660	8,696	2,115	11,550	5,189	62,215
	March	2,155	1,995	29,100	1,475	1,830	1,670	8,712	2,115	11,640	5,203	61,745
	April	2,100	2,045	27,965	1,390	1,885	1,510	8,688	2,120	11,630	5,352	60,540
	May	2,200	2,150	27,645	1,470	1,910	1,600	8,640	2,120	11,700	5,175	60,260
	June	2,110	2,050	27,175	1,535	1,905	1,625	8,547	2,120	11,630	5,203	59,740
	July	2,095	2,170	27,030	1,520	2,015	1,585	8,555	2,125	11,800	4,945	59,575
	August	2,050	2,210	27,010	1,440	2,000	1,535	8,422	2,130	11,800	5,158	59,495
	September	1,600	2,190	25,955	1,420	2,125	1,540	8,619	2,110	11,800	5,056	58,625
	October	1,879	2,225	23,255	1,311	2,182	1,572	8,536	2,076	11,800	5,228	55,960
	November	2,062	2,230	24,065	R1,467	1,901	1,731	8,499	2,088	11,824	R5,095	56,670
	December	2,026	2,330	25,050	1,300	2,027	R1,795	8,609	2,083	11,893	R5,303	58,060
	AVERAGE	**2,055**	**2,167**	**26,890**	**1,424**	**1,937**	**1,622**	**8,597**	**2,114**	**11,720**	**5,151**	**59,455**
1981	January	1,900	2,220	25,080	1,260	2,220	1,765	8,550	2,025	11,900	5,250	58,050
	February	1,960	2,195	25,130	1,300	2,120	1,820	8,611	2,025	11,900	5,244	58,150

United States geographic coverage: the 50 United States and District of Columbia.
[3]OPEC total includes production in Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, United Arab Emirates, Indonesia, Iran, Nigeria, Venezuela, Ecuador, and Gabon.
[4]Other is a calculated total derived from the difference between world production and the nations represented above.
R = Revised data.
Note: Monthly data may not average to annual data due to independent rounding and/or unpublished monthly revisions by the data source. Data for 1980 and 1981 are preliminary.
Sources: • 1973-1978 annual data (except U.S.): Central Intelligence Agency, *International Energy Statistical Review.*
• 1979 annual data (except U.S. and OPEC nations): Central Intelligence Agency, *International Energy Statistical Review.*
• 1979 annual data for OPEC nations: *OPEC Annual Statistical Bulletin 1979.*
• 1979 monthly data (except U.S.) are EIA estimates based on CIA revisions to annual data.
• 1973-1980 United States data: See sources on the last page of the Petroleum Section.
• 1980 and 1981 monthly and 1980 annual data (except U.S. and World total): Central Intelligence Agency, *International Energy Statistical Review.*

International

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

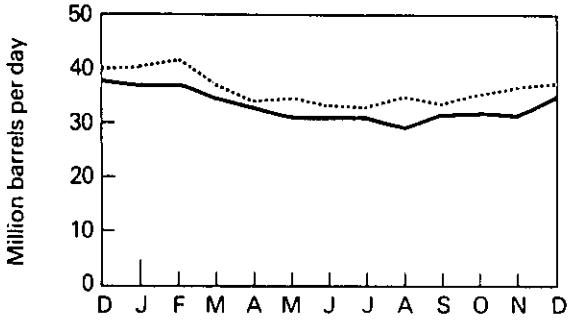
		Canada	France[2]	Italy	Japan	United Kingdom	United States	West Germany	Other IEA[3]	Total IEA[4]
						Thousand barrels per day				
1973	**AVERAGE**	**1,597**	**2,219**	**1,525**	**5,000**	**1,958**	**17,308**	**2,693**	**4,069**	**34,150**
1974	**AVERAGE**	**1,630**	**2,094**	**1,521**	**4,872**	**1,829**	**16,653**	**2,408**	**4,047**	**32,960**
1975	**AVERAGE**	**1,595**	**1,925**	**1,468**	**4,568**	**1,633**	**16,322**	**2,319**	**3,905**	**31,810**
1976	**AVERAGE**	**1,647**	**2,075**	**1,503**	**4,786**	**1,601**	**17,461**	**2,507**	**4,265**	**33,770**
1977	**AVERAGE**	**1,661**	**1,973**	**1,476**	**5,015**	**1,655**	**18,431**	**2,478**	**4,214**	**34,930**
1978	**AVERAGE**	**1,701**	**2,077**	**1,551**	**5,115**	**1,683**	**18,847**	**2,596**	**4,387**	**35,880**
1979	January	1,881	2,786	1,950	5,579	1,883	20,586	2,893	5,228	40,000
	February	2,019	2,731	1,912	6,009	2,067	21,288	2,708	5,097	41,100
	March	1,654	2,315	1,601	5,708	1,949	19,322	2,592	4,574	37,400
	April	1,605	2,150	1,447	5,009	1,703	17,434	2,590	4,212	34,000
	May	1,650	2,039	1,402	4,757	1,648	17,801	2,641	4,301	34,200
	June	1,737	1,663	1,312	4,709	1,517	17,786	2,613	4,026	33,700
	July	1,700	1,604	1,314	4,689	1,435	17,144	2,626	4,192	33,100
	August	1,775	1,553	1,311	4,894	1,488	18,149	2,617	4,566	34,800
	September	1,619	1,721	1,617	4,809	1,520	17,400	2,597	4,338	33,900
	October	1,852	2,007	1,807	4,771	1,652	18,176	2,846	4,396	35,500
	November	1,840	2,481	1,890	5,359	1,858	18,313	2,763	4,377	36,400
	December	1,877	2,278	1,744	5,800	1,606	18,922	2,489	4,862	37,300
	AVERAGE	**1,766**	**2,107**	**1,607**	**5,173**	**1,690**	**18,513**	**2,664**	**4,487**	**35,900**
1980	January	1,820	2,465	1,778	5,255	1,769	18,656	2,665	4,557	36,500
	February	1,930	2,444	1,864	5,722	1,621	18,815	2,385	4,763	37,100
	March	1,720	1,982	1,657	5,433	1,585	17,385	2,405	4,415	34,600
	April	1,600	2,110	1,541	4,626	1,472	16,724	2,656	4,281	32,900
	May	1,590	1,853	1,448	4,376	1,348	16,143	2,203	3,992	31,100
	June	1,660	1,848	1,511	4,224	1,286	16,214	2,192	4,007	31,100
	July	1,680	1,450	1,537	4,250	1,217	15,962	2,404	4,050	31,100
	August	1,650	1,220	1,310	3,910	1,120	15,727	2,130	3,853	29,700
	September	1,710	1,740	1,650	4,120	1,270	16,548	2,520	4,182	32,000
	October	1,770	2,050	1,670	4,250	1,430	16,911	2,210	3,959	32,200
	November	1,720	2,040	1,530	4,550	1,440	16,694	2,080	3,986	32,000
	December	1,940	2,410	1,740	5,350	1,480	18,354	2,170	4,466	35,500
	AVERAGE	**1,730**	**1,965**	**1,602**	**4,680**	**1,420**	**17,006**	**2,335**	**4,427**	**33,000**
1981	January	NA	2,310	1,690	5,010	1,400	18,132	R2,230	NA	NA
	February	NA	2,170	1,970	NA	NA	16,773	NA	NA	NA
	March	NA	1,800	NA	NA	NA	15,569	NA	NA	NA

United States geographic coverage: the 50 United States and District of Columbia.
[1]These data represent inland consumption, i.e., sales of petroleum products excluding refinery fuel, refinery losses, and ocean bunkers except for the United States, where it represents domestic products supplied.
[2]Not a member of the International Energy Agency (IEA).
[3]Other is a calculated total derived from the difference between total IEA consumption and the IEA nations represented above.
[4]The 21 signatory nations of the International Energy Agency (IEA) are: Australia, Austria, Belgium, Canada, Denmark, West Germany, Greece, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States. Australia and Portugal joined the IEA as new members in 1979 and 1980, respectively. In an effort to maintain comparability within this time series, consumption data for these two countries have been incorporated into the IEA total for all years. Data for 1979 and 1980 are rounded to the nearest hundred thousand barrels per day.
NA = Not available. R = Revised data.
Note: Data for 1980 and 1981 are preliminary.
Sources: • Central Intelligence Agency, "International Energy Statistical Review," 26 May 1981 (except United States).
• 1973-1981 United States data: See sources on last page of the Petroleum Section.
• IEA totals for latest months are EIA estimates.

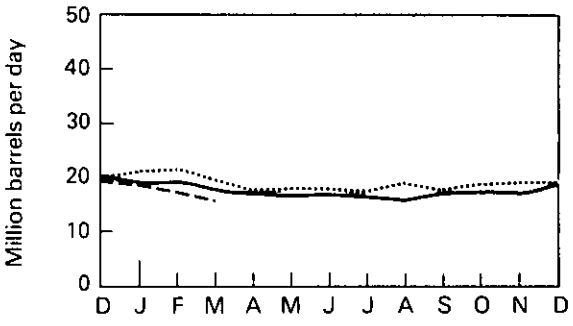
International

Petroleum Consumption

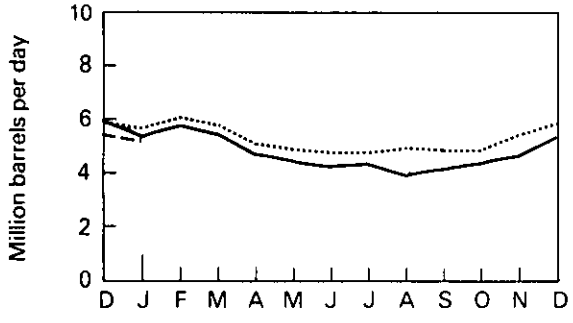
Total IEA



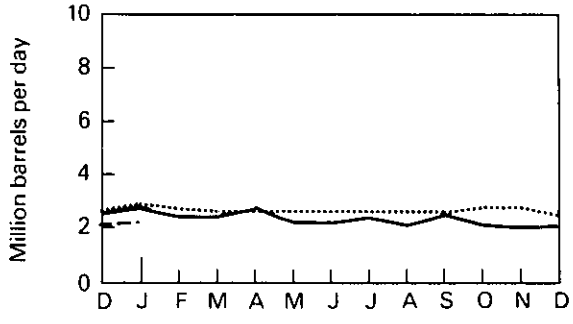
United States



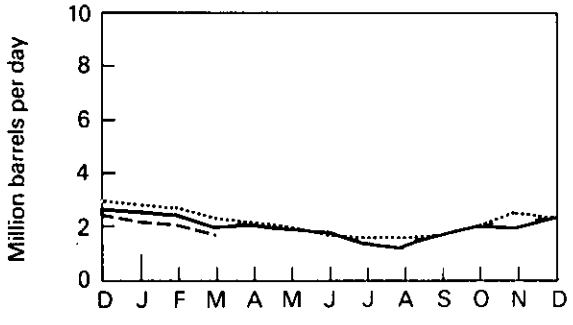
Japan*



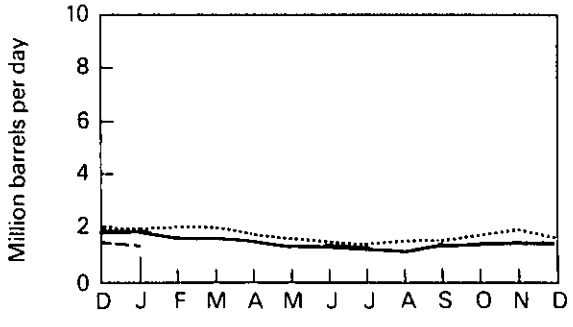
West Germany



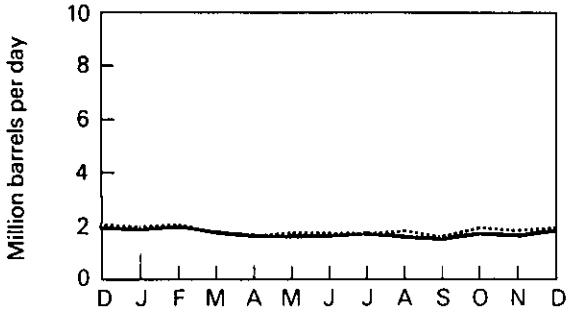
France**



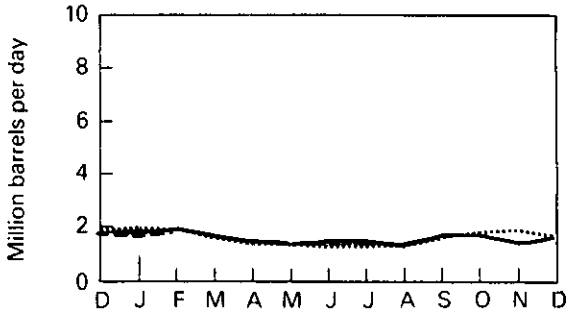
United Kingdom



Canada



Italy***



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

***Principal products only.

..... 1979
——— 1980
- - - - 1981

International

Nuclear Electricity Generation by Non-Communist Countries[1]

		Argentina	Belgium	Canada	Finland	France	India	Italy	Japan	Nether-lands	Pakistan
						Billion gross kilowatt-hours					
1973	**TOTAL**	**0**	**0**	**18.3**	**0**	**11.6**	**1.9**	**3.1**	**9.4**	**1.1**	**0.5**
1974	**TOTAL**	**1.0**	**0.1**	**15.4**	**0**	**14.7**	**2.4**	**3.4**	**18.1**	**3.3**	**0.6**
1975	**TOTAL**	**2.5**	**6.8**	**13.2**	**0**	**18.3**	**2.5**	**3.8**	**22.2**	**3.3**	**0.5**
1976	**TOTAL**	**2.6**	**10.0**	**18.0**	**0**	**15.8**	**3.2**	**3.8**	**36.8**	**3.9**	**0.5**
1977	**TOTAL**	**1.6**	**11.9**	**26.8**	**2.7**	**17.9**	**2.8**	**3.4**	**28.1**	**3.7**	**0.3**
1978	**TOTAL**	**2.9**	**12.5**	**32.9**	**3.3**	**30.5**	**2.3**	**4.4**	**53.2**	**4.1**	**0.2**
1979	January	0.3	0.8	3.8	0.5	3.8	0.4	0.4	5.7	0.4	(s)
	February	0.2	0.6	2.9	0.5	3.5	0.2	0.3	4.8	0.3	(s)
	March	0.2	0.8	2.9	0.5	3.2	0.2	0.2	4.3	0.4	0
	April	0.3	1.0	3.1	0.6	3.2	0.2	0.3	3.9	0.2	0
	May	0.3	1.3	2.7	0.5	3.3	0.2	0.2	3.6	0.3	0
	June	0.2	1.2	3.2	0.4	3.0	0.3	0.1	4.5	0.4	0
	July	0.2	1.0	3.8	0.5	2.6	0.3	0	5.9	0.4	0
	August	0.3	0.6	2.8	0.4	2.3	0.3	0.1	6.7	0.3	0
	September	0.1	0.8	3.0	0.7	3.1	0.2	0.2	5.3	0.4	0
	October	0.2	1.1	3.3	0.8	3.8	0.3	0.2	6.2	0.3	0
	November	0.3	1.0	2.9	0.6	3.6	0.3	0.2	5.4	0.3	0
	December	0.2	1.3	3.8	0.7	4.6	0.2	0.4	5.9	0.1	0
	TOTAL	**2.7**	**11.4**	**38.4**	**6.7**	**39.9**	**3.2**	**2.6**	**62.0**	**3.5**	**(s)**
1980	January	0.3	1.2	3.6	0.8	5.5	0.2	0.2	8.0	0.4	0
	February	0.1	1.0	3.5	0.8	5.3	0.1	0.4	7.4	0.4	0
	March	0	1.0	3.7	0.8	5.1	0.2	0.5	8.0	0.4	0
	April	0.1	0.5	3.2	0.8	5.0	0.3	0.4	5.6	0.3	0
	May	0.2	0.7	2.5	0.3	4.2	0.3	0.3	6.0	0.3	0
	June	R0.2	1.1	3.1	0	4.1	0.2	0.1	R6.7	0.3	0
	July	0.2	1.3	3.6	0.4	4.8	0.2	0.1	R7.8	0.4	(s)
	August	0.3	1.3	3.9	0.4	3.2	0.3	0.1	R8.6	0.4	(s)
	September	0.3	1.1	3.1	0.4	4.5	0.3	0.1	R7.0	0.4	(s)
	October	0.3	0.9	3.3	0.5	5.1	0.2	0	R6.0	0.3	0
	November	0.3	R1.1	3.4	0.6	5.8	0.3	0	R5.4	0.3	(s)
	December	0.3	1.2	3.5	1.2	8.5	0.2	0	R6.3	0.3	(s)
	TOTAL	**2.3**	**12.5**	**40.4**	**7.0**	**61.2**	**2.9**	**2.2**	**R82.8**	**4.2**	**0.1**
1981	January	0.3	1.2	3.2	1.3	9.3	0.2	0.2	R8.2	0.1	(s)
	February	0.2	1.0	3.5	0.9	8.6	0.2	0.3	R7.1	(s)	(s)
	March	0.3	0.6	3.9	1.4	8.8	0.3	0.1	7.8	0.3	0
	TOTAL (Year-to-date)	**0.7**	**2.7**	**10.7**	**3.6**	**26.7**	**0.6**	**0.5**	**23.2**	**0.4**	**(s)**

Note: Totals may not equal sum of components due to independent rounding.
[1]Figures are for gross electrical generation as opposed to net electrical generation. Net figures are generally less than gross figures by about 5 percent, which represents the energy consumed by the generating plants themselves.
s = Less than 0.05 billion gross kilowatt-hours.
R = Revised data.
Source: • *Nucleonics Week.*

International

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

		South Korea	Spain	Sweden	Switzer-land	Taiwan	United Kingdom[2]	West Germany	Non-Communist World Excluding U.S.	United States	Total Non-Communist World
						Billion gross kilowatt-hours					
1973	**TOTAL**	**0**	**6.5**	**2.1**	**6.2**	**0**	**28.0**	**11.9**	**100.7**	**88.0**	**188.7**
1974	**TOTAL**	**0**	**7.2**	**1.6**	**7.0**	**0**	**34.0**	**12.0**	**121.1**	**104.5**	**225.6**
1975	**TOTAL**	**0**	**7.5**	**12.0**	**7.7**	**0**	**30.5**	**21.7**	**152.7**	**181.8**	**334.5**
1976	**TOTAL**	**0**	**7.6**	**16.0**	**7.9**	**0**	**36.8**	**24.5**	**187.3**	**201.6**	**388.9**
1977	**TOTAL**	**0.1**	**6.5**	**19.9**	**8.1**	**0.1**	**38.1**	**35.8**	**207.8**	**263.2**	**470.9**
1978	**TOTAL**	**2.3**	**7.6**	**23.8**	**8.3**	**2.7**	**36.7**	**35.9**	**263.6**	**292.7**	**556.3**
1979	January	0.3	0.5	2.3	0.8	0.4	3.8	4.2	28.5	29.2	57.7
	February	0.4	0.6	2.0	0.7	0.3	3.8	3.4	24.5	27.3	51.7
	March	0.3	0.7	2.7	0.8	0.5	4.0	3.8	25.4	25.5	50.9
	April	0.3	0.6	1.4	0.8	0.6	3.2	3.8	23.5	19.3	42.8
	May	0.3	0.1	1.3	0.9	0.5	2.3	3.5	21.2	15.8	37.0
	June	0.3	0.3	1.0	0.7	0.6	3.1	3.3	22.6	17.1	39.7
	July	0.3	0.3	1.0	0.8	0.7	2.6	3.3	23.8	22.5	46.3
	August	0.4	0.7	1.1	0.7	0.6	2.4	2.9	22.6	26.2	48.7
	September	0.4	0.7	1.4	1.2	0.6	3.1	2.6	23.9	23.2	47.1
	October	0.3	0.7	2.0	1.4	0.5	2.8	3.7	27.6	22.3	49.9
	November	0	0.7	2.3	1.4	0.3	3.3	3.8	26.0	20.3	46.3
	December	0	0.7	2.5	1.5	0.6	4.1	4.1	30.6	21.9	52.5
	TOTAL	**3.2**	**6.7**	**21.0**	**11.8**	**6.3**	**38.5**	**42.2**	**300.1**	**270.7**	**570.8**
1980	January	0.1	0.7	2.5	1.5	0.9	3.7	4.7	34.2	21.1	55.3
	February	(s)	0.3	2.4	1.2	0.7	3.4	4.2	31.3	21.0	52.2
	March	0.4	0.4	2.3	1.3	0.8	4.2	3.4	32.4	21.0	53.4
	April	0.4	0.4	1.9	1.4	0.7	2.7	3.6	27.3	19.8	47.1
	May	0.4	0.4	1.6	1.4	0.4	2.6	3.5	25.1	19.6	44.7
	June	0.1	0.3	1.6	0.6	0.5	2.8	2.9	R24.7	19.4	R44.1
	July	0.4	0.3	1.3	0.6	0.8	2.0	3.0	R27.2	22.4	R49.6
	August	0.3	0.4	1.3	0.7	0.8	2.6	2.7	R27.2	25.7	R52.9
	September	0.4	0.4	2.1	1.3	0.8	3.1	3.2	R28.4	24.8	R53.2
	October	0.4	0.4	2.7	1.4	0.8	2.7	3.1	R28.2	25.7	R53.9
	November	0.4	0.5	3.4	1.4	0.6	3.2	4.1	R30.8	22.0	R52.8
	December	0.3	0.7	3.6	1.5	0.5	4.2	5.3	R37.5	22.9	R60.5
	TOTAL	**3.5**	**5.2**	**26.7**	**14.3**	**8.2**	**37.2**	**43.7**	**R354.4**	**265.3**	**R619.7**
1981	January	0.3	0.8	3.5	1.5	0.8	3.8	5.0	R39.7	25.7	R65.4
	February	0	0.6	3.6	1.4	0.7	3.4	4.6	R36.2	22.6	R58.8
	March	0	0.7	3.7	1.5	0.8	4.2	4.9	39.1	23.1	62.2
	TOTAL (Year-to-date)	**0.3**	**2.1**	**10.8**	**4.4**	**2.4**	**11.5**	**14.5**	**115.0**	**71.4**	**186.4**

United States geographic coverage: the 50 United States and District of Columbia.
Note: Totals may not equal sum of components due to independent rounding.
[1]Figures are for gross electricity generation, as opposed to net electricity generation. Net figures are generally less than gross figures by about 5 percent, which represents the energy consumed by the generating plants themselves.
[2]The United Kingdom assesses generation at 4- or 5-week intervals, rather than by calendar month.
s = Less than 0.05 billion gross kilowatt-hours.
R = Revised data.
Source: • *Nucleonics Week.*

Definitions

Anthracite

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

Average Retail Selling Price, Motor Gasoline

The average price of sales of motor gasoline to retail customers at service stations.

Base Production Control Level

(See Crude Oil)

Bituminous Coal

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

Ceiling Price

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

Coke (Coal)

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

Crude Oil

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

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

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

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

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

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

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

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

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

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

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

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

Crude Oil Domestic Production

Domestic crude oil production is measured at the wellhead and includes lease condensate, which is a natural gas liquid recovered from lease separators or field facilities.

Crude Oil Entitlement Value

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

Crude Oil Refinery Input

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

Crude Oil Stocks

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

Distillate Fuel Oil

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

Distillate Fuel Oil Production

Total production of distillate fuel by refineries, measured at the refinery outlet. Relatively small quantities of distillate fuel are produced at natural gas processing plants, but these quantities are not included.

Electricity Production

Production at electric utilities only. Does not include industrial electricity generation.

Entitlement Position

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

Entitlement Price

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

Exploratory Well

A well drilled to 1.) find and produce oil or gas in an unproved area; 2.) find a new reservoir in a field previously found to be productive of oil or gas in another reservoir; or 3.) extend the limit of a known oil or gas reservoir.

Full Serve

Motor vehicle services are provided by an attendant, such as: pumping gas, washing windows, checking under the hood, checking tire pressure, etc.

Imports

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

Jet Fuel

Includes both naphtha-type and kerosene-type jet fuel meeting standards for use in aircraft turbine engines or meeting ASTM Specification D1655. Although most jet

fuel is used in aircraft, some is used for other purposes, such as fuel for turbines to produce electricity.

Landed Cost

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

Lease Condensate

A natural gas liquid recovered from gas well gas (including gas produced from crude oil reservoirs) in lease separators and, in some instances, field facilities. It consists primarily of pentanes and heavier hydrocarbons. Generally, it is blended with crude oil for refining.

Line Miles of Seismic Exploration

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

Lignite

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

Lower Tier Crude Oil

(See Crude Oil, Part A.)

Major Brand

Lundberg Survey, Inc., defines major brand as an integrated company that produces, refines, transports, and markets in Interstate Commerce under its own brand(s) in 10 or more states.

Maximum Dependable Capacity, Net

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

Motor Gasoline

A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark ignition engines. Included are leaded and unleaded products and all refinery products listed in ASTM Specification D439.

Motor Gasoline Production

Total production of motor gasoline by refineries, measured at the refinery outlet. Relatively small quantities of motor gasoline are produced at natural gas processing plants, but these quantities are not included.

Motor Gasoline, Regular Grade

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

Motor Gasoline, Premium Grade

Volatile hydrocarbon mixture suitable for operation of an internal combustion engine and customarily marketed as "ethyl," "super," or equivalent classification.

National Domestic Crude Oil Supply Ratio

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

Natural Gas

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

Natural Gas Liquids

Those portions of reservoir gas which are liquefied at the surface in lease separators, field facilities, or natural gas processing plants. Natural gas liquids include natural gas plant liquids and lease condensate.

Natural Gas Plant Liquids

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

Natural Gas Production (Dry)

Derived by subtracting extraction loss from marketed production. It represents the amount of domestic natural gas production that is available to be marketed and consumed as a gas.

New Crude Oil

(See Crude Oil, Part B.)

Old Crude Oil

(See Crude Oil, Part A.)

Petroleum

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

Petroleum Coke

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

Petroleum Products

Products obtained from the processing of crude oil, unfinished oils, natural gas liquids and other miscellaneous hydrocarbon compounds. Includes aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, ethane, liquefied petroleum gases, petrochemical feedstocks, special naphthas, lubricants, paraffin wax, petroleum coke, asphalt, road oil, still gas and other miscellaneous products.

Property

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

Refined Petroleum Product Supplied

Total refined petroleum product supplied is the sum of each refined petroleum product supplied. For each product the amount supplied is derived by summing production, imports, and net withdrawals from primary stocks and subtracting exports.

Refiner Acquisition Cost

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

Residual Fuel Oil

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

Rotary Rig

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

Self Serve

Motor vehicle services are not provided by attendants.

Strategic Petroleum Reserve

A plan developed to reduce the impact of interruption of imports of petroleum. Congress enacted legislation to establish a Strategic Petroleum Reserve in Title I, Part B of the Energy Policy and Conservation Act of 1975, Public Law 94–163.

Startup Test Phase of Nuclear Powerplant

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

Stocks (Refined Petroleum Product)

Stocks held at refineries, bulk terminals, and pipelines (including pipeline fill) where the storage capacity exceeds 50,000 barrels. Stocks held at natural gas processing plants are not included as well as stocks held in secondary storage facilities, such as those held by jobbers, dealers, independent marketers, and consumers.

Synthetic Natural Gas (SNG)

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

Unaccounted for Crude Oil

Represents the arithmetic difference between the indicated demand for crude oil and the total disposition

of crude oil. Indicated demand is the sum of crude oil production and imports less changes in crude oil stocks. Total disposition of crude oil is the sum of refinery input, exports of crude oil, crude oil burned as fuel, and crude oil losses.

Unrecouped Costs

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

Upper Tier Crude Oil

(See Crude Oil, Part B.)

Well

A hole drilled for the process of finding or producing crude oil or natural gas or providing services related to the production of crude oil or natural gas. Wells are classified as oil wells, gas wells, dry holes, stratigraphic tests, or service wells.

Explanatory Notes

1. Domestic production of energy includes production of coal (anthracite, bituminous, and lignite), crude oil and lease condensate, natural gas plant liquids, natural gas (dry), electric utility and industrial production of hydropower, and electricity generated from nuclear power, geothermal power, and wood and waste. The volumetric data were converted to approximate heat contents (Btu values) of these energy sources using conversion factors listed in Thermal Conversion Factors.

2. Domestic consumption of energy includes consumption of coal (anthracite, bituminous coal, and lignite), natural gas (dry), refined petroleum products supplied, electric utility and industrial production of hydropower, net imports of electricity produced from hydropower, net imports of coke made from coal, and electricity generated from nuclear power, geothermal power, and wood and waste. Approximate heat contents (Btu values) were derived using conversion factors listed in Thermal Conversion Factors.

3. U.S. energy imports include imports of bituminous coal, crude oil (including crude oil imported for the Strategic Petroleum Reserve), refined petroleum products, natural gas (dry), electricity produced from hydropower, and coke made from coal.

4. U.S. energy exports include bituminous coal and anthracite, crude oil, refined petroleum products, natural gas (dry), electricity produced from hydropower, and coke made from coal.

5. The Residential and Commercial Sector consists of housing units, non-manufacturing business establishments (e.g., wholesale and retail businesses), health and educational institutions, and government office buildings. The Industrial Sector is made up of construction, manufacturing, agriculture, and mining establishments. The Transportation Sector consists of both private and public passenger and freight transportation, as well as government transportation, including military operations. The Electric Utilities Sector is made up of privately- and publicly-owned establishments which generate electricity primarily for resale.

6. Degree-days are relative measurements of outdoor air temperature. Cooling degree-days are defined as deviations of the mean daily temperature at a sampling station above a base temperature equal to 65° F by convention. Heating degree-days are deviations of the mean daily temperature below 65° F. For example, if a weather station recorded a mean daily temperature of 78° F, cooling degree-days for that station would be 13 (and heating degree-days, 0). A weather station recording a mean daily temperature of 40° F would report 25 heating degree-days (and 0 cooling degree-days).

There are two degree-day data bases maintained by the National Oceanic and Atmospheric Administration. Weekly degree-day information is based on mean daily temperatures recorded at about 200 major weather stations around the country. Monthly data are based on readings at more than 8,000 weather stations. The temperature information recorded at these weather stations is used to calculate statewide degree-day averages based on population. The State figures are then aggregated into Petroleum Administration for Defense (PAD) Districts and into the national average, also using a population weighting method.

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

7. Domestic products supplied figures for natural gas liquids (NGL) in this publication do not include amounts utilized by refineries for blending purposes in the production of finished products, principally gasoline. Use of NGL at refineries is reported in a separate column. The production series cited in this publication shows both NGL produced at processing plants and liquefied gases produced at refineries (LRG). LRG produced at refineries is extracted from crude oil and hence, to avoid double counting, should not be included in calculations of total U.S. production of petroleum liquids. The stock series shown in this volume includes natural gas liquids held as stocks at both natural gas processing plants and at refineries and LRG held at refineries.

Preliminary monthly estimates for 1980 production, stocks, and products supplied are obtained by multiplying the reported data for the most recent month available by an appropriate ratio derived from data for the prior 3 years. For example, if an estimate were required for June 1980 and the most recent monthly data available were for April, the preliminary estimate would be obtained by multiplying the April 1980 data by the average of the June to April ratios for the years 1977 through 1979.

8. Domestic consumption of natural gas includes the quantities sold to consumers plus the gas used for plant and pipeline fuel, after the natural gas liquids have been extracted. All monthly consumption data are estimated. Marketed production of natural gas includes gross withdrawals from the ground less the quantities used for repressuring and the amount vented and flared, before the natural gas liquids have been extracted. Dry production of natural gas is the quantity remaining after the natural gas liquids have been extracted.

9. The Federal Energy Administration and Federal Power Commission began the coordinated collection and compilation of monthly underground storage information from all underground storage operators in the United States in October 1975. Initial storage information reported was for the month of September 1975. Comparable monthly information for total U.S. storage operations is not available for prior periods.

The total gas in storage is the total volume of gas (base gas plus working gas) in storage reservoirs as of the end of the month. Base gas is the volume of gas, including all native gas in place at the time of

conversion to storage, needed as a permanent inventory to maintain adequate reservoir pressures and deliverability rates throughout the withdrawal season. Base gas includes the volumes which will not be recoverable upon termination of storage operations. Working gas is the volume of gas above the designated base gas level available for withdrawal.

10. Bituminous coal and lignite production is calculated from the number of railroad cars loaded at mines, based on the assumption that approximately 60 percent of the coal produced is transported by rail. Production data are estimated by EIA from Association of American Railroads reports of carloadings.

Bituminous coal and lignite consumption is calculated by Energy Information Administration (EIA) from information provided by the Federal Energy Regulatory Commission, Department of Commerce, and reports from selected manufacturing industries and retailers.

Domestic consumption data in this series, therefore, approximate actual consumption. This is in contrast to domestic demand reported for petroleum products, which is calculated value representing total disappearance from primary supplies.

The data sources used to compute the monthly coal consumption estimates from 1978 forward for the "Other Industrial" (i.e. Industrial except coke plants) sector are:

(a) Form EIA-3, "Monthly Fuel Consumption Report—Manufacturing Plants."
(b) Form EIA-6, "Bituminous Coal and Lignite Distribution Report."

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

$$C = S_B + R - S_E, \quad (1)$$

where

S_B = beginning stocks
R = receipts
S_E = ending stocks.

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

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

The Form EIA-6 provides complete coverage of the "Other Industrial" sector. The quarterly receipts are obtained from this form.

The Form EIA-3 does not provide total coverage of the "Other Industrial" sector, however it does contain stock change information. The impact of the stock change in the portion of the sector that is not covered by the Form EIA-3 is not substantial.

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

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

where

C_{M3} = the monthly consumption in the "Other Industrial" sector as reported on Form EIA-3.
C_3 = the quarterly consumption in the "Other Industrial" sector as reported on Form EIA-3.

Equation (3) insures that a) the monthly consumption estimates (C_M) sum to C over the quarter and b) the estimated seasonality for the C_M's is the same as that for the C_{M3}'s.

11. The units used to describe power generation at nuclear plants are based on the watt, a unit of power. (Power is energy produced per unit of time.) Nuclear power plants may have more than one type of power rating, including:

(a). Design Capacity or Design Electrical Rating (DER)—The nominal net, electrical output of the unit specified by the utility and used for the purpose of plant design.
(b). Maximum Dependable Capacity (MDC), GROSS—The gross electrical output as measured at the output terminals of the turbine generator during the most restrictive seasonal conditions (usually summer).
(c). Maximum Dependable Capacity, NET—The gross maximum dependable capacity less the nominal station service load. (The nominal station service load for a nuclear plant is about 5 percent of its gross generation.)
(d). Thermal Capacity—The rate of heat production by the reactor core. The Nuclear Regulatory Commission authorizes a maximum thermal power rating for U.S. reactors.

12. The actual domestic average price represents the average price at which all domestic crude oil is purchased. Prior to February 1976, the domestic crude oil wellhead price represented an estimate of the average of posted prices; after February 1976, the wellhead price represents an average of first sale prices. For the 2-year period January 1974 through January 1976, the old oil price at the wellhead was originally estimated to be $5.25 per barrel based on representative postings. This estimate was revised in July 1976 after a survey of crude oil purchasers was implemented and more complete data became available. Estimates of the average old oil price given in the table for months prior to February 1976 are based on prices for old oil reported on new leases, and were not derived from a statistically valid sample of old oil leases.

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

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

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

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

16. The motor gasoline prices are calculated monthly by the BLS in conjunction with the construction of the Consumer Price Index (CPI). For the period 1974 through 1978 prices were collected in 56 urban areas. For the period 1978 forward, prices are collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers — about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self- serve).

17. The survey and method used to derive data for March 1976 forward differ from those used for prior months. Data for January 1974 through February 1976 are derived from a survey of distributors, and prices and margins are computed as unweighted averages. The average distributor purchase price and average dealer margin for March 1976 forward are for distributors only, whereas the average selling price includes both refiners and distributors. Data for March 1976 forward are computed as sales weighted averages.

18. The U.S. Department of Energy Regions are defined as follows:

Region 1 —Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island;
Region 2 —New York, New Jersey, Puerto Rico, Virgin Islands;
Region 3 —Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware;
Region 4 —Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone;
Region 5 —Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio;
Region 6 —Texas, New Mexico, Oklahoma, Arkansas, Louisiana;
Region 7 —Kansas, Missouri, Iowa, Nebraska;
Region 8 —Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado;
Region 9 —California, Nevada, Arizona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guam;
Region 10—Washington, Oregon, Idaho, Alaska.

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

☆ U. S. GOVERNMENT PRINTING OFFICE: 1981 341-073/102

DOE F 1340.1
(2-80)

U.S. DEPARTMENT OF ENERGY
GPO SUBSCRIPTION ORDER FORM

A

(For use in ordering EIA Publications only – Read Ordering Information Section before completing form.)

SEND ORDER FORM 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.

☐☐☐☐☐☐☐ – ☐

Order No. _____

Credit Card Orders Only

Total charges $ _____ Fill in the boxes below

Credit Card No. ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Expiration Date Month/Year ☐☐☐☐

☐ VISA ☐ Master Charge

PLEASE PRINT OR TYPE **NAME AND ADDRESS**

NAME – FIRST, LAST

COMPANY NAME OR ADDITIONAL ADDRESS LINE

STREET ADDRESS

CITY **STATE** **ZIP CODE**

(OR COUNTRY)

PRINT OR TYPE TITLES OF ITEMS YOU WISH TO RECEIVE ON A SUBSCRIPTION BASIS:

FOR OFFICE USE ONLY		
	QUANTITY	CHARGES
..... ENCLOSED		
..... TO BE MAILED		
..... SUBSCRIPTIONS		
POSTAGE		
FOREIGN HANDLING		
MMOB		
OPNR		
..... UPNS		
..... DISCOUNT		
..... REFUND		

GPO 869 028

Conversion Factors

Thermal Conversion Factors

Approximate Heat Content of Various Fuels		1973	1974	1975	1976	1977	1978	1979	1980–81
Anthracite									
Production	Btu/short ton	23,170,000	22,560,000	23,390,000	22,770,000	23,180,000	23,520,000	23,590,000	23,590,000
Imports and Exports	Btu/short ton	25,400,000	25,400,000	25,400,000	25,400,000	25,400,000	25,400,000	25,400,000	25,400,000
Consumption, average	Btu/short ton	22,710,000	21,950,000	21,740,000	22,150,000	22,710,000	22,970,000	22,700,000	22,700,000
Electric utility consumption	Btu/short ton	17,920,000	17,200,000	17,060,000	17,530,000	17,240,000	17,100,000	17,450,000	17,380,000
Non-utility consumption	Btu/short ton	24,340,000	23,750,000	23,650,000	23,840,000	24,990,000	25,170,000	25,200,000	24,690,000
Bituminous coal and lignite									
Production	Btu/short ton	24,010,000	23,730,000	23,200,000	23,150,000	22,700,000	22,430,000	22,590,000	22,590,000
Imports	Btu/short ton	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
Exports	Btu/short ton	27,000,000	27,000,000	27,000,000	27,000,000	27,000,000	27,000,000	27,000,000	27,000,000
Consumption, average	Btu/short ton	23,650,000	23,070,000	22,800,000	22,750,000	22,330,000	22,140,000	22,200,000	22,200,000
Electric utility consumption	Btu/short ton	22,260,000	21,800,000	21,660,000	21,690,000	21,480,000	21,280,000	21,380,000	21,310,000
Non-utility consumption	Btu/short ton	26,840,000	26,120,000	25,810,000	25,870,000	25,130,000	25,070,000	25,060,000	25,970,000
Coal Coke	Btu/short ton	26,000,000	26,000,000	26,000,000	26,000,000	26,000,000	26,000,000	26,000,000	26,000,000
Crude petroleum[1]									
Production	Btu/barrel	5,800,000	5,800,000	5,800,000	5,800,000	5,800,000	5,800,000	5,800,000	5,800,000
Imports	Btu/barrel	5,817,000	5,827,000	5,821,000	5,808,000	5,810,000	5,802,000	5,810,000	5,810,000
Exports	Btu/barrel	5,800,000	5,800,000	5,800,000	5,800,000	5,800,000	5,800,000	5,800,000	5,800,000
Crude petroleum and products									
Imports, average	Btu/barrel	5,897,000	5,884,000	5,858,000	5,856,000	5,834,000	5,839,000	5,810,000	5,810,000
Exports, average	Btu/barrel	5,752,000	5,774,000	5,748,000	5,745,000	5,797,000	5,808,000	5,832,000	5,832,000
Petroleum products									
Consumption, average	Btu/barrel	5,515,000	5,504,000	5,494,000	5,504,000	5,518,000	5,519,000	5,494,000	5,494,000
Residential and Commercial	Btu/barrel	5,686,000	5,681,000	5,655,000	5,661,000	5,664,000	5,682,000	5,661,000	5,633,000
Industrial	Btu/barrel	5,325,000	5,304,000	5,304,000	5,336,000	5,368,000	5,369,000	5,338,000	5,380,000
Transportation	Btu/barrel	5,398,000	5,396,000	5,395,000	5,400,000	5,404,000	5,412,000	5,415,000	5,409,000
Electric Utility	Btu/barrel	6,223,000	6,215,000	6,229,000	6,235,000	6,231,000	6,227,000	6,245,000	6,246,000
Imports	Btu/barrel	5,983,000	5,959,000	5,935,000	5,980,000	5,908,000	5,955,000	5,811,000	5,811,000
Exports	Btu/barrel	5,752,000	5,773,000	5,747,000	5,743,000	5,796,000	5,814,000	5,864,000	5,864,000
LPG Consumption Average[2]	Btu/barrel	3,746,000	3,730,000	3,715,000	3,711,000	3,677,000	3,669,000	3,680,000	3,680,000
Natural gas plant liquid production	Btu/barrel	4,049,000	4,011,000	3,984,000	3,964,000	3,941,000	3,925,000	3,955,000	3,955,000
Natural gas, dry									
Production and consumption	Btu/cubic foot	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,021
Electric utility consumption	Btu/cubic foot	1,024	1,022	1,026	1,023	1,029	1,034	1,034	1,030
Non-utility consumption	Btu/cubic foot	1,020	1,024	1,020	1,019	1,019	1,016	1,018	1,019
Imports	Btu/cubic foot	1,026	1,027	1,026	1,025	1,026	1,030	1,037	1,037
Exports	Btu/cubic foot	1,023	1,016	1,014	1,013	1,013	1,013	1,013	1,013
Natural gas, wet									
Production	Btu cubic foot	1,093	1,097	1,095	1,093	1,093	1,088	1,092	1,092
Hydropower[3]	Btu/kWh	10,389	10,442	10,406	10,373	10,435	10,435	10,435	10,435
Nuclear power[3]	Btu/kWh	10,903	11,161	11,013	11,047	10,769	10,769	10,769	10,769
Geothermal power[3]	Btu/kWh	21,674	21,674	21,611	21,611	21,611	21,611	21,611	21,611
Electricity consumption	Btu/kWh	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412

Refined Petroleum Products:	Btu/barrel
Asphalt	6,636,000
Aviation gasoline	5,048,000
Butane	4,326,000
Butane-propane mixture[4]	4,130,000
Distillate fuel oil	5,825,000
Ethane	3,082,000
Ethane-propane mixture[5]	3,308,000
Isobutane	3,974,000
Jet fuel—kerosene type	5,670,000
Jet fuel—naphtha type	5,355,000
Kerosene	5,670,000
Lubricants	6,065,000
Motor gasoline	5,253,000
Natural gasoline	4,620,000
Petrochemical feedstocks	
Naphtha 400°	5,248,000
Other oils over 400°	5,825,000
Still gas	6,000,000
Petroleum coke	6,024,000
Plant condensate	5,418,000
Propane	3,836,000
Residual fuel oil	6,287,000
Road oil	6,636,000
Special naphtha	5,248,000
Still gas	6,000,000
Unfinished oils	5,825,000
Wax	5,537,000
Miscellaneous	5,796,000

Units of Measure

Weight

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

Conversion Factors for Crude Oil (Average Gravity)

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

Conversion Factors for Uranium

1 short ton (U_3O_8) **contains** 0.769 metric tons of uranium
1 short ton (UF_6) **contains** 0.613 metric tons of uranium
1 metric ton (UF_6) **contains** 0.676 metric tons of uranium

[1] Includes lease condensate
[2] LPG Consumption Average is the annual weighted average of the LPG product supplied components: ethane, ethylene, propane, propylene, butane, butylene, butane-propane mixture, ethane-propane mixture, and isobutane.
[3] There is no generally accepted practice for measuring hydropower thermal conversion rates. The hydropower factors on this page are the prevailing heat rate factors at fossil fuel steam electric powerplants. By using the heat rate factor, it is possible to evaluate fossil fuel requirements for replacing hydropower production during periods of drought. Furthermore, it allows for better comparisons with certain other countries such as Norway where hydropower is the principal means for producing electricity. Similarly, the nuclear power and geothermal power conversion factors represent the thermal conversion equivalent of the uranium and geothermal steam consumed at powerplants. The heat content of a kilowatt-hour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatt-hour. It is not possible to determine the hydroelectric powerplant efficiency by using these factors. The efficiency factor for hydroelectric powerplants is derived by multiplying generation efficiency by turbine efficiency. The average hydroelectric powerplant efficiency in the United States is 86 percent while average generation efficiency is 97 percent and average turbine efficiency is 89 percent.
[4] 60 percent butane and 40 percent propane.
[5] 70 percent ethane and 30 percent propane.

U.S. DEPARTMENT OF ENERGY
ENERGY INFORMATION ADMINISTRATION
OFFICE OF ENERGY INFORMATION SERVICES
1000 INDEPENDENCE AVENUE, S.W.
WASHINGTON, D.C. 20585