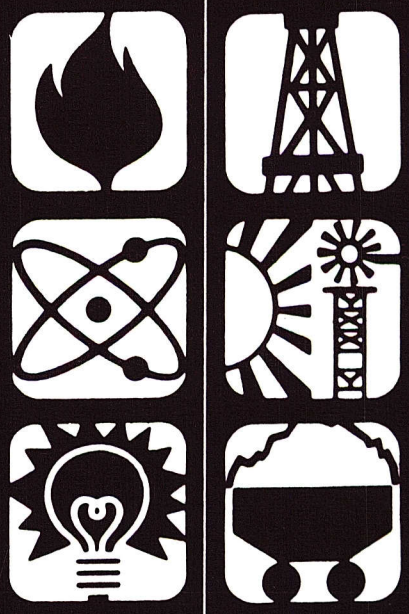
DOE/EIA-0035 (83/06)

Monthly Energy Review

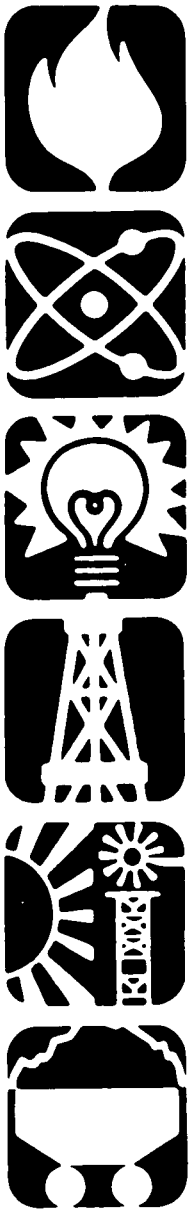
Energy Information Administration
Washington, D.C.

June 1983

First Quarter 1983 Summary
See Executive Summary



Petroleum Supply Information Symposium Details Inside



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

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

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

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Monthly Energy Review

June 1983

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

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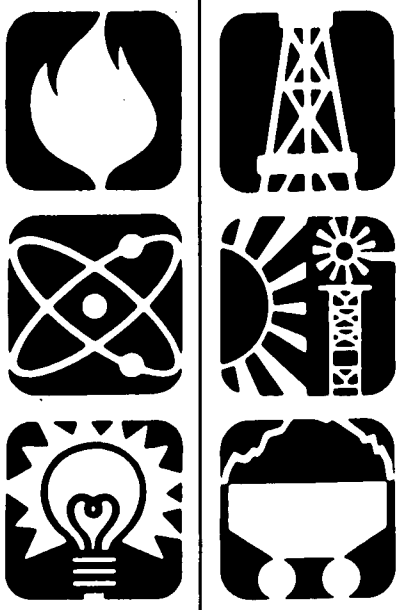

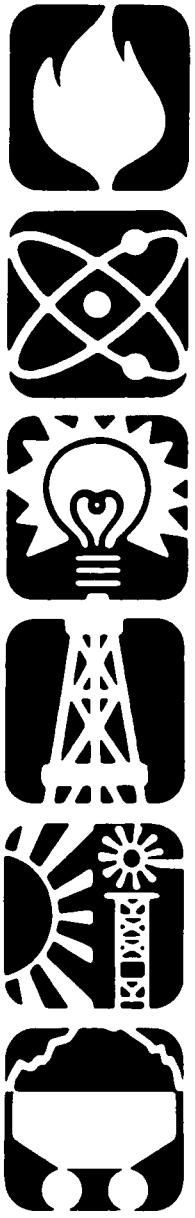

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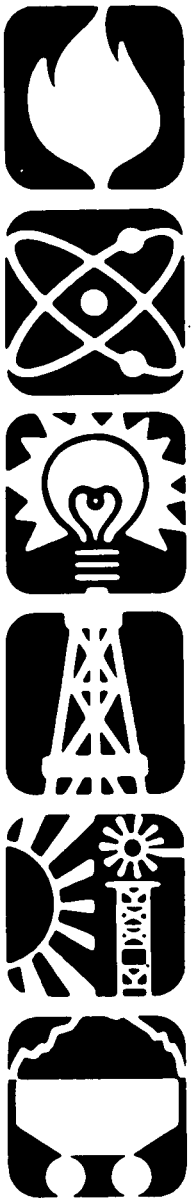
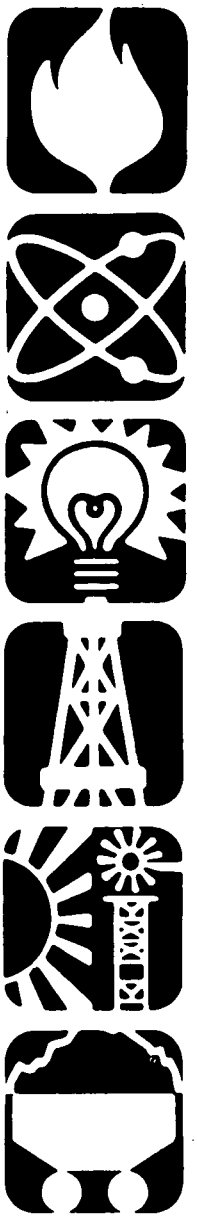




Articles

Feature articles on energy-related subjects and highlights from recently published Energy Information Administration reports are often included in this publication. The following articles and highlights have appeared in previous issues:

Part 1 Executive Summary

Overview

Production

Energy production during March 1983 totaled 5.3 quadrillion Btu, an 8.5-percent* decrease from the level of production during March 1982. Coal production fell 19.4 percent and natural gas production was down 9.8 percent. Petroleum production increased 0.6 percent. Production of all other forms of energy combined increased 3.4 percent.

Consumption

Energy consumption during March 1983 totaled 6.2 quadrillion Btu, 2.5 percent below the level of consumption during March 1982. Decreases occurred in the consumption of natural gas (6.9 percent), coal (2.8 percent), and petroleum (0.5 percent), accounting for the overall decline in energy consumption compared to March 1982. Consumption of all other forms of energy combined increased 3.5 percent.

Imports

Net imports of energy during March 1983 totaled 0.5 quadrillion Btu, 4.5 percent below the level of imports during March 1982. Net imports of petroleum decreased 21.1 percent, and net imports of electricity and coal coke combined increased 5.2 percent. Natural gas net imports increased 1.2 percent. Net exports of coal decreased 40.7 percent.

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

Energy Summary

(Quadrillion (10^{15}) Btu)

	March			Cumulative January through March				
	1983	1982	Percent Change	1983	1983 Daily Rate	1982	1982 Daily Rate	Percent Change[1]
Total Production	**5.311**	**5.803**	**-8.5**	**15.329**	**0.170**	**16.515**	**0.183**	**-7.2**
Petroleum[2]	1.748	1.737	+0.6	5.085	0.056	5.063	0.056	+0.4
Natural Gas	1.470	1.630	-9.8	4.325	0.048	4.859	0.054	-11.0
Coal	1.506	1.867	-19.4	4.196	0.047	4.946	0.055	-15.2
Other[3]	0.588	0.568	+3.4	1.723	0.019	1.647	0.018	+4.6
Total Consumption	**6.207**	**6.364**	**-2.5**	**18.533**	**0.206**	**19.860**	**0.221**	**-6.7**
Petroleum[4]	2.615	2.628	-0.5	7.362	0.082	7.743	0.086	-4.9
Natural Gas	1.743	1.872	-6.9	5.512	0.061	6.322	0.070	-12.8
Coal	1.235	1.270	-2.8	3.858	0.043	4.071	0.045	-5.2
Other[5]	0.615	0.594	+3.5	1.800	0.020	1.724	0.019	+4.4
Net Imports	**0.455**	**0.477**	**-4.5**	**1.552**	**0.017**	**1.735**	**0.019**	**-10.6**
Petroleum[6]	0.503	0.637	-21.1	1.562	0.017	2.049	0.023	-23.8
Natural Gas	0.087	0.086	+1.2	0.302	0.003	0.276	0.003	+9.6
Coal[7]	(0.162)	(0.273)	(-40.7)	(0.390)	(0.004)	(0.666)	(0.007)	(-41.5)
Other[8]	0.027	0.026	+5.2	0.077	0.001	0.076	0.001	+1.0

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

Sample Only - #1

First Quarter 1983 Summary

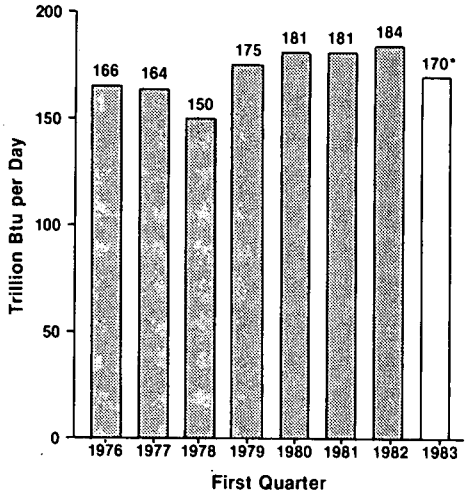
First quarter 1983 preliminary figures for U.S. energy production, consumption, and net imports all declined compared to their levels in the first quarter of 1982. Total energy produced in the quarter was 7.2 percent less than in the same period 1 year earlier, while total energy consumed was down 6.7 percent and total net imports of energy were lower by 10.6 percent.

U.S. energy production in the first quarter of 1983 totaled 15.3 quadrillion Btu (170 trillion Btu per day), compared to 16.5 quadrillion Btu (183 trillion Btu per day), in the first quarter of 1982 (Figure 1). The decrease was caused by declines of 15.2 percent and 11.0 percent in the production of coal and natural gas, respectively. Production of petroleum (crude oil, lease condensate, and natural gas plant liquids) recorded a small increase of 0.4 percent from the same period 1 year earlier. Energy produced from hydroelectric power increased 4.8 percent and energy produced from nuclear power increased 3.7 percent in the first quarter of 1983 compared to the first quarter of 1982.

U.S. energy consumption in the first quarter of 1983 totaled 18.5 quadrillion Btu (206 trillion Btu per day), compared to 19.9 quadrillion Btu (221 trillion Btu per day), in the first quarter of 1982 (Figure 2). First quarter energy consumption fell each year after reaching the peak level of 246 trillion Btu per day in 1979. In the first 3 months of 1983, consumption of all three major fossil fuels decreased significantly. Consumption of natural gas fell 12.8 percent, followed by declines of 5.2 percent in coal use and 4.9 percent in the consumption of petroleum.

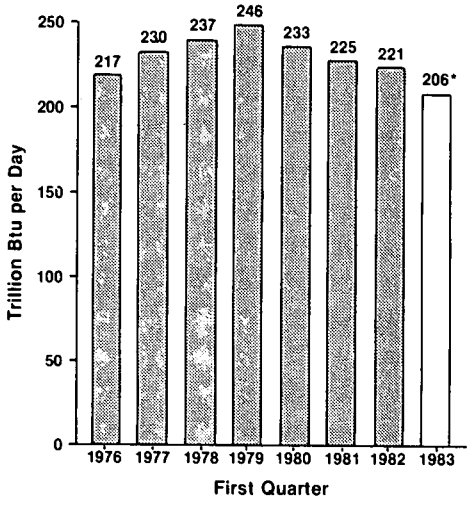
U.S. net imports of energy totaled 1.6 quadrillion Btu in the first quarter of 1983. The rate of net imports for that period was 17 trillion Btu per day, down from 19 trillion Btu per day for 1982's first quarter, and less than one third the peak rate of 55 trillion Btu per day recorded in the first quarter of 1977 (Figure 3). Net imports of petroleum declined 23.8 percent compared to the first quarter of 1982, and net exports of coal fell 41.5 percent.

Figure 1. U.S. Energy Production



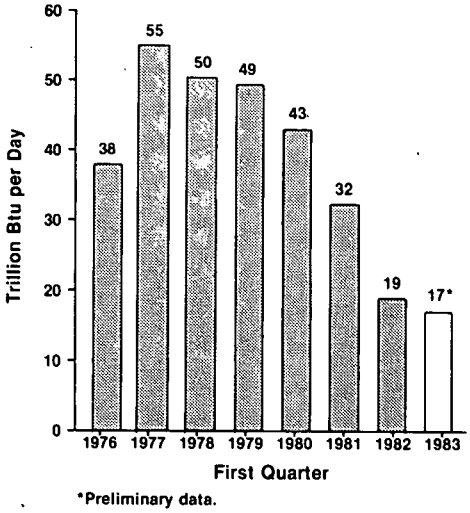
*Preliminary data.

Figure 2. U.S. Energy Consumption



*Preliminary data.

Figure 3. U.S. Energy Imports (Net)



*Preliminary data.

Executive Summary

Production of Energy by Type—Quarterly Summary

		Coal[1]	Crude Oil[2]	NGPL[3]	Natural Gas (Dry)	Hydro-electric Power[4]	Nuclear Electric Power	Other[5]	Total 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	1st Qtr	3.906	4.345	0.582	4.991	0.809	0.491	0.021	15.145
	2nd Qtr	4.130	4.275	0.578	4.821	0.789	0.427	0.019	15.040
	3rd Qtr	3.707	4.338	0.582	4.761	0.736	0.589	0.021	14.735
	4th Qtr	4.110	4.305	0.585	4.907	0.642	0.603	0.019	15.171
	TOTAL	**15.853**	**17.262**	**2.327**	**19.480**	**2.976**	**2.111**	**0.081**	**60.091**
1977	1st Qtr	3.678	4.188	0.571	5.046	0.589	0.672	0.021	14.765
	2nd Qtr	4.260	4.279	0.586	4.869	0.577	0.667	0.020	15.259
	3rd Qtr	4.047	4.426	0.579	4.804	0.528	0.691	0.020	15.096
	4th Qtr	3.843	4.560	0.592	4.847	0.639	0.671	0.021	15.173
	TOTAL	**15.829**	**17.454**	**2.327**	**19.565**	**2.333**	**2.702**	**0.082**	**60.293**
1978	1st Qtr	1.972	4.431	0.555	5.014	0.753	0.767	0.019	13.511
	2nd Qtr	4.455	4.658	0.563	4.834	0.829	0.658	0.013	16.011
	3rd Qtr	4.036	4.680	0.561	4.807	0.710	0.796	0.018	15.609
	4th Qtr	4.575	4.664	0.567	4.830	0.644	0.802	0.018	16.100
	TOTAL	**15.037**	**18.434**	**2.245**	**19.485**	**2.937**	**3.024**	**0.068**	**61.231**
1979	1st Qtr	4.053	4.455	0.550	5.084	0.756	0.830	0.020	15.749
	2nd Qtr	4.612	4.502	0.570	4.953	0.831	0.527	0.021	16.016
	3rd Qtr	4.289	4.524	0.571	4.889	0.660	0.711	0.023	15.665
	4th Qtr	4.696	4.623	0.595	5.151	0.684	0.647	0.025	16.421
	TOTAL	**17.651**	**18.104**	**2.286**	**20.076**	**2.931**	**2.715**	**0.089**	**63.851**
1980	1st Qtr	4.630	4.588	0.578	5.286	0.746	0.644	0.024	16.496
	2nd Qtr	4.764	4.552	0.571	4.887	0.864	0.605	0.028	16.271
	3rd Qtr	4.460	4.549	0.547	4.711	0.666	0.752	0.031	15.716
	4th Qtr	4.787	4.559	0.558	5.031	0.624	0.738	0.032	16.329
	TOTAL	**18.640**	**18.249**	**2.254**	**19.916**	**2.900**	**2.739**	**0.114**	**64.812**
1981	1st Qtr	4.816	4.481	0.581	4.994	0.673	0.735	0.033	16.313
	2nd Qtr	3.043	4.519	0.570	4.940	0.749	0.671	0.031	14.523
	3rd Qtr	5.252	4.569	0.575	4.882	0.678	0.812	0.033	16.801
	4th Qtr	5.332	4.577	0.581	4.878	0.640	0.756	0.030	16.795
	TOTAL	**18.443**	**18.146**	**2.307**	**19.694**	**2.741**	**2.974**	**0.127**	**64.432**
1982	1st Qtr	R4.946	4.516	0.548	4.859	0.876	0.749	0.023	R16.515
	2nd Qtr	R4.834	4.573	0.550	4.512	R0.881	0.736	0.025	R16.110
	3rd Qtr	R4.481	4.639	0.552	4.328	R0.746	0.827	0.030	R15.604
	4th Qtr	R4.396	4.629	0.580	R4.321	0.742	0.773	0.030	R15.471
	TOTAL	**R18.657**	**18.357**	**2.229**	**R18.019**	**R3.245**	**3.084**	**0.108**	**R63.700**
1983	1st Qtr	4.196	4.519	0.566	4.325	0.918	0.777	0.028	15.329

Geographic coverage: the 50 United States and the 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

Consumption of Energy by Type—Quarterly Summary

		Coal[1]	Natural Gas (Dry)	Petroleum	Hydro-electric Power[2]	Nuclear Electric Power	Net Imports of Coal Coke[3]	Other[4]	Total 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	1st Qtr	3.405	6.069	8.929	0.831	0.491	(0.005)	0.021	19.742
	2nd Qtr	3.248	4.363	8.257	0.812	0.427	(0.007)	0.019	17.119
	3rd Qtr	3.471	4.071	8.453	0.759	0.589	0.002	0.021	17.366
	4th Qtr	3.609	5.843	9.536	0.664	0.603	0.010	0.019	20.284
	TOTAL	**13.733**	**20.345**	**35.175**	**3.066**	**2.111**	**0.000**	**0.081**	**74.510**
1977	1st Qtr	3.528	6.063	9.772	0.634	0.672	(0.004)	0.021	20.686
	2nd Qtr	3.317	4.238	8.800	0.623	0.667	(0.002)	0.020	17.664
	3rd Qtr	3.635	4.202	9.019	0.574	0.691	0.010	0.020	18.152
	4th Qtr	3.485	5.428	9.531	0.684	0.671	0.011	0.021	19.831
	TOTAL	**13.964**	**19.931**	**37.122**	**2.515**	**2.702**	**0.015**	**0.082**	**76.332**
1978	1st Qtr	3.169	6.561	9.971	0.804	0.767	0.008	0.019	21.299
	2nd Qtr	3.288	4.247	9.081	0.880	0.658	0.047	0.013	18.214
	3rd Qtr	3.749	3.926	9.178	0.762	0.796	0.040	0.018	18.470
	4th Qtr	3.640	5.265	9.735	0.696	0.802	0.037	0.018	20.192
	TOTAL	**13.846**	**20.000**	**37.965**	**3.141**	**3.024**	**0.131**	**0.068**	**78.175**
1979	1st Qtr	3.786	6.648	10.072	0.808	0.830	0.009	0.020	22.173
	2nd Qtr	3.589	4.423	8.837	0.883	0.527	0.026	0.021	18.306
	3rd Qtr	3.894	4.085	8.879	0.713	0.711	0.025	0.023	18.329
	4th Qtr	3.841	5.510	9.337	0.737	0.647	0.005	0.025	20.101
	TOTAL	**15.109**	**20.666**	**37.123**	**3.141**	**2.715**	**0.066**	**0.089**	**78.910**
1980	1st Qtr	4.005	6.606	9.143	0.800	0.644	(0.001)	0.024	21.222
	2nd Qtr	3.555	4.255	8.177	0.919	0.605	(0.015)	0.028	17.524
	3rd Qtr	4.030	3.977	8.123	0.721	0.752	(0.012)	0.031	17.621
	4th Qtr	3.871	5.553	8.759	0.678	0.738	(0.010)	0.032	19.621
	TOTAL	**15.461**	**20.391**	**34.202**	**3.118**	**2.739**	**(0.037)**	**0.114**	**75.988**
1981	1st Qtr	4.085	6.237	8.391	0.754	0.735	(0.004)	0.033	20.230
	2nd Qtr	3.692	4.338	7.732	0.830	0.671	(0.006)	0.031	17.289
	3rd Qtr	4.208	4.000	7.785	0.760	0.812	(0.001)	0.033	17.597
	4th Qtr	3.987	5.355	8.023	0.722	0.756	(0.006)	0.030	18.868
	TOTAL	**15.973**	**19.930**	**31.931**	**3.066**	**2.974**	**(0.017)**	**0.127**	**73.984**
1982	1st Qtr	R4.071	6.322	7.743	0.956	0.749	(0.004)	0.023	R19.860
	2nd Qtr	3.577	3.833	7.570	R0.962	0.736	(0.007)	0.025	R16.695
	3rd Qtr	4.015	3.530	7.439	R0.828	0.827	(0.008)	0.030	R16.662
	4th Qtr	R3.752	R4.671	7.579	0.825	0.773	(0.004)	0.030	R17.625
	TOTAL	**R15.414**	**R18.356**	**30.332**	**R3.571**	**3.084**	**(0.023)**	**0.108**	**R70.842**
1983	1st Qtr	3.858	5.512	7.362	0.999	0.777	(0.003)	0.028	18.533

Geographic coverage: the 50 United States and the 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

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

		Coal[2]	Crude Oil[3]	Refined Petroleum Products[4]	Natural Gas (Dry)	Electricity	Coal Coke	Total Net Imports
				Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**(1.443)**	**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	1st Qtr	(0.285)	2.389	1.088	0.237	0.022	(0.005)	3.446
	2nd Qtr	(0.482)	2.656	0.855	0.234	0.022	(0.007)	3.278
	3rd Qtr	(0.398)	3.064	0.980	0.211	0.022	0.002	3.883
	4th Qtr	(0.425)	3.112	1.059	0.240	0.022	0.010	4.018
	TOTAL	**(1.590)**	**11.221**	**3.982**	**0.922**	**0.089**	**0.000**	**14.625**
1977	1st Qtr	(0.230)	3.403	1.432	0.274	0.045	(0.004)	4.920
	2nd Qtr	(0.462)	3.628	0.881	0.241	0.045	(0.002)	4.331
	3rd Qtr	(0.387)	3.513	1.043	0.213	0.046	0.010	4.439
	4th Qtr	(0.345)	3.377	0.965	0.253	0.046	0.011	4.305
	TOTAL	**(1.424)**	**13.921**	**4.321**	**0.981**	**0.182**	**0.015**	**17.995**
1978	1st Qtr	(0.037)	3.138	1.112	0.241	0.050	0.008	4.512
	2nd Qtr	(0.312)	3.063	0.891	0.214	0.051	0.047	3.955
	3rd Qtr	(0.269)	3.422	0.942	0.209	0.052	0.040	4.395
	4th Qtr	(0.406)	3.502	0.987	0.276	0.052	0.037	4.448
	TOTAL	**(1.024)**	**13.125**	**3.932**	**0.941**	**0.204**	**0.131**	**17.309**
1979	1st Qtr	(0.282)	3.311	1.051	0.307	0.052	0.009	4.449
	2nd Qtr	(0.459)	3.252	0.787	0.307	0.052	0.026	3.966
	3rd Qtr	(0.463)	3.417	0.826	0.295	0.053	0.025	4.153
	4th Qtr	(0.526)	3.348	0.939	0.333	0.053	0.005	4.152
	TOTAL	**(1.730)**	**13.328**	**3.603**	**1.243**	**0.211**	**0.066**	**16.720**
1980	1st Qtr	(0.363)	3.021	0.902	0.326	0.054	(0.001)	3.940
	2nd Qtr	(0.652)	2.696	0.625	0.203	0.054	(0.015)	2.913
	3rd Qtr	(0.678)	2.446	0.626	0.174	0.055	(0.012)	2.611
	4th Qtr	(0.698)	2.423	0.760	0.254	0.055	(0.010)	2.783
	TOTAL	**(2.390)**	**10.586**	**2.912**	**0.957**	**0.217**	**(0.037)**	**12.246**
1981	1st Qtr	(0.578)	2.368	0.729	0.244	0.080	(0.004)	2.840
	2nd Qtr	(0.529)	2.127	0.552	0.185	0.081	(0.006)	2.410
	3rd Qtr	(0.883)	2.239	0.628	0.184	0.082	(0.001)	2.248
	4th Qtr	(0.929)	2.119	0.613	0.242	0.082	(0.006)	2.122
	TOTAL	**(2.918)**	**8.854**	**2.522**	**0.855**	**0.325**	**(0.017)**	**9.621**
1982	1st Qtr	(0.666)	1.503	0.546	0.276	0.080	(0.004)	1.735
	2nd Qtr	(0.825)	1.655	0.442	0.204	0.081	(0.007)	1.550
	3rd Qtr	R(0.654)	1.955	0.500	0.187	0.082	(0.008)	R2.062
	4th Qtr	(0.618)	1.734	0.546	0.264	0.082	(0.004)	2.004
	TOTAL	**R(2.763)**	**6.848**	**2.033**	**0.930**	**0.326**	**(0.023)**	**R7.351**
1983	1st Qtr	(0.390)	1.207	0.355	0.302	0.080	(0.003)	1.552

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Net imports equals 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.
R=Revised data.
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Executive Summary

Energy Summary[1]

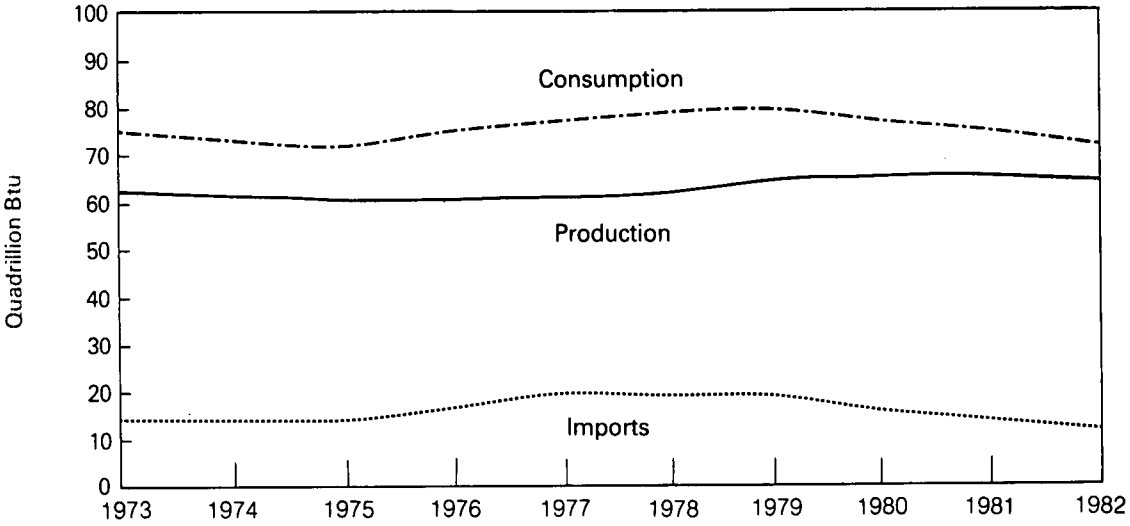
		Energy Production[2]	Energy Consumption[2]	Energy Imports[2]	Energy Exports
		Quadrillion (10^{15}) Btu			
1973	**TOTAL**	**62.433**	**74.609**	**14.732**	**2.073**
1974	**TOTAL**	**61.229**	**72.759**	**14.417**	**2.241**
1975	**TOTAL**	**60.059**	**70.707**	**14.113**	**2.389**
1976	**TOTAL**	**60.091**	**74.510**	**16.838**	**2.213**
1977	**TOTAL**	**60.293**	**76.332**	**20.092**	**2.097**
1978	**TOTAL**	**61.231**	**78.175**	**19.261**	**1.952**
1979	**TOTAL**	**63.851**	**78.910**	**19.620**	**2.900**
1980	**TOTAL**	**64.812**	**75.988**	**15.972**	**3.726**
1981	January	5.448	7.459	1.346	0.261
	February	5.187	6.330	1.210	0.278
	March	5.678	6.440	1.193	0.370
	April	4.595	5.709	1.084	0.325
	May	4.729	5.764	1.131	0.274
	June	5.199	5.816	1.041	0.246
	July	5.544	6.023	1.140	0.393
	August	5.718	5.924	1.132	0.420
	September	5.538	5.650	1.201	0.412
	October	5.688	5.971	1.179	0.466
	November	5.420	5.975	1.109	0.440
	December	5.687	6.922	1.172	0.431
	TOTAL	**64.432**	**73.984**	**13.939**	**4.318**
1982	January	5.498	7.210	1.074	0.321
	February	5.215	6.286	0.881	0.376
	March	5.803	6.364	0.919	0.442
	April	5.412	5.860	0.849	0.428
	May	5.380	5.436	0.959	0.420
	June	5.319	5.400	1.003	0.413
	July	5.146	5.660	1.132	0.385
	August	5.360	5.635	1.022	0.356
	September	5.097	5.367	1.026	0.376
	October	5.214	5.534	1.044	0.438
	November	5.065	5.806	1.111	0.350
	December	5.191	6.285	0.958	0.321
	TOTAL	**63.700**	**70.842**	**11.977**	**4.626**
1983	January	R5.198	R6.529	0.935	0.302
	February	4.820	R5.796	0.727	0.264
	March	5.311	6.207	0.773	0.318

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

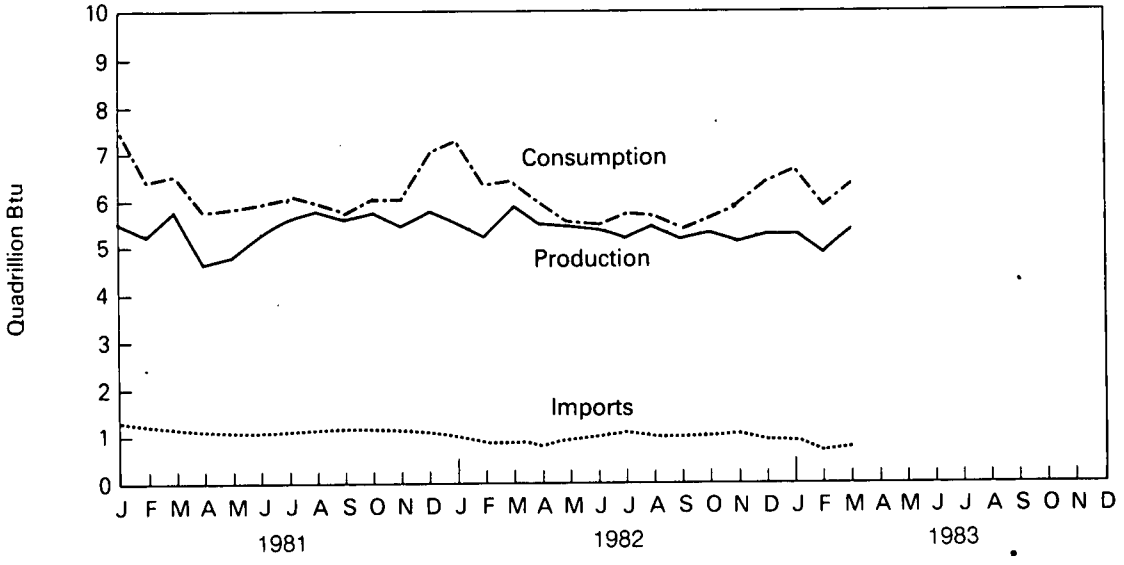
Executive Summary

Energy Summary

Yearly



Monthly



Executive Summary

Production of Energy by Type

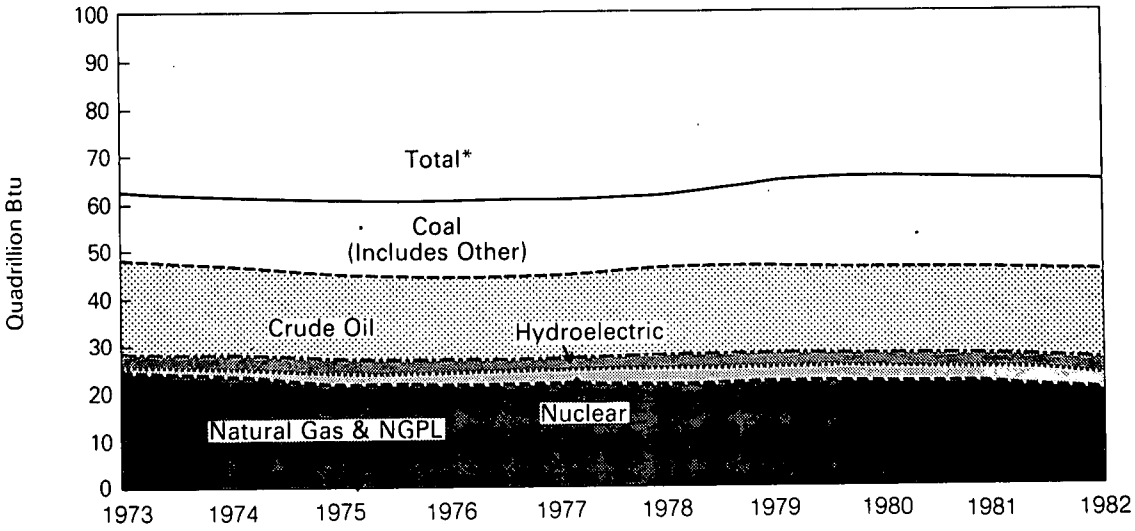
		Coal[1]	Crude Oil[2]	NGPL[3]	Natural Gas (Dry)	Hydro-electric Power[4]	Nuclear Electric Power	Other[5]	Total Energy Produced	Yearly Cumulative Energy Produced
					Quadrillion (10^{15}) Btu					
1973	**TOTAL**	**14.366**	**19.493**	**2.569**	**22.187**	**2.861**	**0.910**	**0.046**	**62.433**	
1974	**TOTAL**	**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**	**2.937**	**3.024**	**0.068**	**61.231**	
1979	**TOTAL**	**17.651**	**18.104**	**2.286**	**20.076**	**2.931**	**2.715**	**0.089**	**63.851**	
1980	**TOTAL**	**18.640**	**18.249**	**2.254**	**19.916**	**2.900**	**2.739**	**0.114**	**64.812**	
1981	January	1.476	1.535	0.201	1.730	0.235	0.259	0.011	5.448	5.448
	February	1.588	1.397	0.182	1.553	0.222	0.236	0.010	5.187	10.635
	March	1.752	1.549	0.198	1.711	0.217	0.240	0.011	5.678	16.313
	April	0.812	1.489	0.188	1.651	0.218	0.225	0.010	4.595	20.908
	May	0.853	1.529	0.194	1.675	0.254	0.215	0.010	4.729	25.637
	June	1.378	1.501	0.188	1.614	0.277	0.231	0.010	5.199	30.837
	July	1.659	1.528	0.189	1.642	0.264	0.252	0.011	5.544	36.381
	August	1.764	1.543	0.197	1.683	0.227	0.294	0.011	5.718	42.100
	September	1.829	1.497	0.190	1.557	0.187	0.266	0.011	5.538	47.638
	October	1.908	1.540	0.195	1.620	0.190	0.224	0.011	5.688	53.326
	November	1.715	1.494	0.192	1.562	0.199	0.249	0.010	5.420	58.746
	December	1.709	1.544	0.194	1.696	0.251	0.284	0.010	5.687	64.432
	TOTAL	**18.443**	**18.146**	**2.307**	**19.694**	**2.741**	**2.974**	**0.127**	**64.432**	
1982	January	1.495	1.559	0.189	1.684	0.282	0.280	0.009	5.498	5.498
	February	1.583	1.411	0.168	1.545	0.280	0.220	0.008	5.215	10.712
	March	1.867	1.546	0.191	1.630	0.313	0.248	0.007	5.803	16.515
	April	1.644	1.505	0.187	1.538	0.293	0.238	0.007	5.412	21.927
	May	1.589	1.557	0.185	1.510	0.294	0.236	0.008	5.380	27.307
	June	1.602	1.510	0.177	1.464	0.294	0.262	0.010	5.319	32.625
	July	1.347	1.555	0.185	1.484	0.286	0.278	0.010	5.146	37.771
	August	1.622	1.564	0.188	1.452	0.251	0.273	0.010	5.360	43.132
	September	1.512	1.520	0.178	1.392	0.209	0.277	0.010	5.097	48.229
	October	1.577	1.560	0.188	1.418	0.207	0.254	0.011	5.214	53.443
	November	1.419	1.512	0.193	1.433	0.244	0.253	0.011	5.065	58.508
	December	1.400	1.557	0.200	1.470	0.291	0.266	0.009	5.191	63.700
	TOTAL	**18.657**	**18.357**	**2.229**	**18.019**	**3.245**	**3.084**	**0.108**	**63.700**	
1983	January	1.363	1.552	0.203	R1.487	0.308	0.274	0.011	R5.198	R5.198
	February	1.327	1.406	0.174	1.368	0.293	0.242	0.008	4.820	R10.017
	March	1.506	1.560	0.188	1.470	0.318	0.261	0.010	5.311	15.329

Geographic coverage: the 50 United States and the 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.

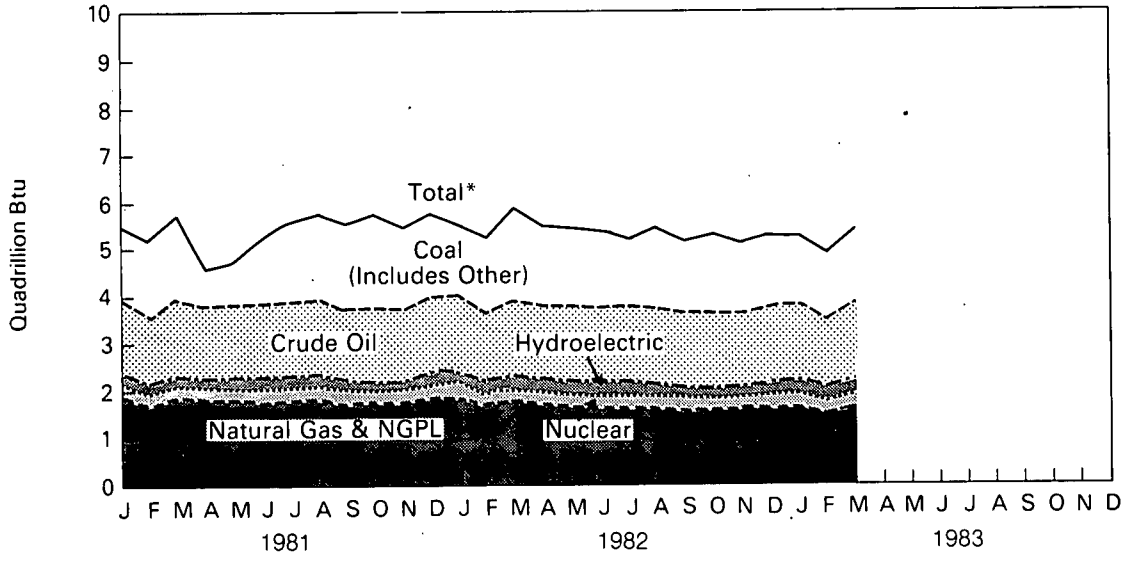
Executive Summary

Production of Energy by Type

Yearly



Monthly



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

Executive Summary

Consumption of Energy by Type

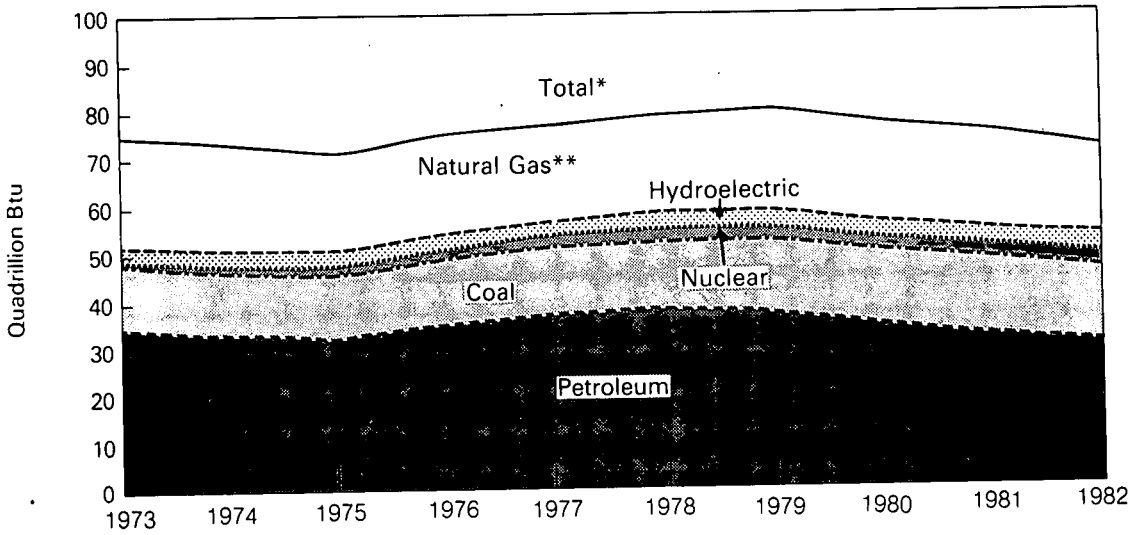
		Coal[1]	Natural Gas (Dry)	Petroleum	Hydroelectric Power[2]	Nuclear Electric Power	Net Imports of Coal Coke[3]	Other[4]	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Quadrillion (10^{15}) Btu					
1973	**TOTAL**	**13.300**	**22.512**	**34.840**	**3.010**	**0.910**	**(0.008)**	**0.046**	**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**	**13.964**	**19.931**	**37.122**	**2.515**	**2.702**	**0.015**	**0.082**	**76.332**	
1978	**TOTAL**	**13.846**	**20.000**	**37.965**	**3.141**	**3.024**	**0.131**	**0.068**	**78.175**	
1979	**TOTAL**	**15.109**	**20.666**	**37.123**	**3.141**	**2.715**	**0.066**	**0.089**	**78.910**	
1980	**TOTAL**	**15.461**	**20.391**	**34.202**	**3.118**	**2.739**	**(0.037)**	**0.114**	**75.988**	
1981	January	1.473	2.341	3.113	0.263	0.259	0.000	0.011	7.459	7.459
	February	1.302	1.945	2.592	0.247	0.236	(0.001)	0.010	6.330	13.790
	March	1.310	1.951	2.686	0.244	0.240	(0.003)	0.011	6.440	20.230
	April	1.191	1.529	2.509	0.245	0.225	(0.001)	0.010	5.709	25.939
	May	1.200	1.465	2.593	0.281	0.215	0.000	0.010	5.764	31.702
	June	1.301	1.344	2.631	0.304	0.231	(0.004)	0.010	5.816	37.519
	July	1.469	1.351	2.649	0.292	0.252	0.000	0.011	6.023	43.542
	August	1.437	1.349	2.578	0.255	0.294	0.000	0.011	5.924	49.465
	September	1.302	1.300	2.559	0.214	0.266	(0.002)	0.011	5.650	55.116
	October	1.290	1.559	2.672	0.218	0.224	(0.003)	0.011	5.971	61.087
	November	1.280	1.663	2.548	0.226	0.249	0.000	0.010	5.975	67.062
	December	1.418	2.133	2.803	0.278	0.284	(0.003)	0.010	6.922	73.984
	TOTAL	**15.973**	**19.930**	**31.931**	**3.066**	**2.974**	**(0.017)**	**0.127**	**73.984**	
1982	January	1.498	2.430	2.684	0.310	0.280	0.000	0.009	7.210	7.210
	February	1.303	2.020	2.432	0.305	0.220	(0.001)	0.008	6.286	13.496
	March	1.270	1.872	2.628	0.341	0.248	(0.002)	0.007	6.364	19.860
	April	1.161	1.512	2.623	0.320	0.238	(0.001)	0.007	5.860	25.719
	May	1.196	1.170	2.507	0.322	0.236	(0.003)	0.008	5.436	31.155
	June	1.220	1.151	2.440	0.320	0.262	(0.004)	0.010	5.400	36.555
	July	1.392	1.174	2.495	0.314	0.278	(0.003)	0.010	5.660	42.214
	August	1.386	1.184	2.506	0.278	0.273	(0.001)	0.010	5.635	47.850
	September	1.238	1.172	2.439	0.236	0.277	(0.003)	0.010	5.367	53.217
	October	1.200	1.334	2.503	0.235	0.254	(0.001)	0.011	5.534	58.751
	November	1.239	1.576	2.457	0.271	0.253	(0.002)	0.011	5.806	64.557
	December	1.313	1.760	2.619	0.319	0.266	(0.001)	0.009	6.285	70.842
	TOTAL	**15.414**	**18.356**	**30.332**	**3.571**	**3.084**	**(0.023)**	**0.108**	**70.842**	
1983	January	1.403	R2.015	2.494	0.335	0.274	(0.001)	0.011	R6.529	R6.529
	February	1.221	R1.754	2.253	0.318	0.242	(0.001)	0.008	R5.796	R12.325
	March	1.235	1.743	2.615	0.345	0.261	(0.001)	0.010	6.207	18.533

Geographic coverage: the 50 United States and the 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.

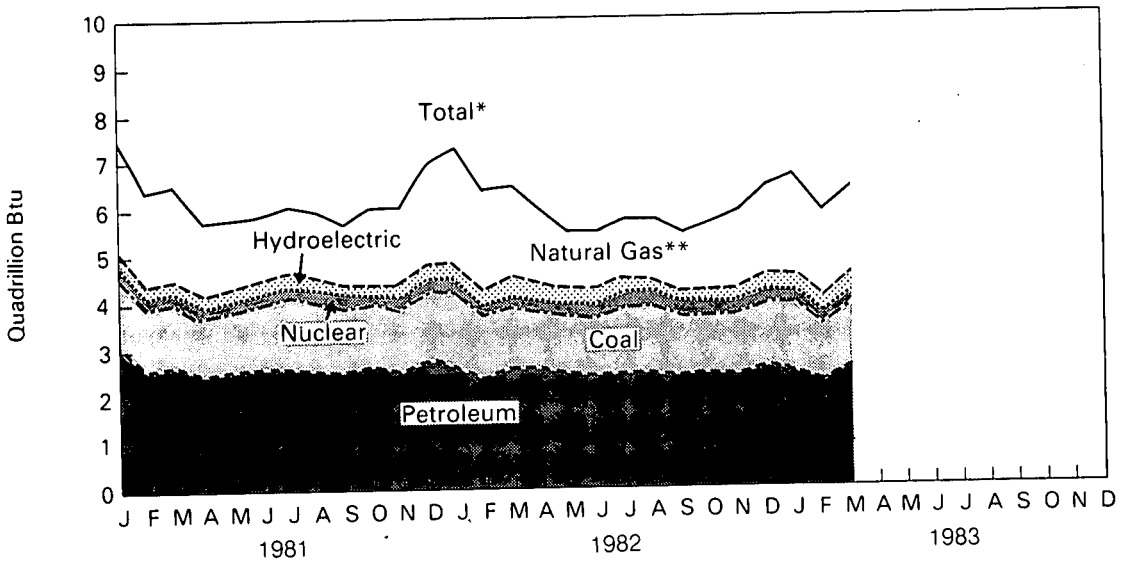
Executive Summary

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[1] of Energy by Type

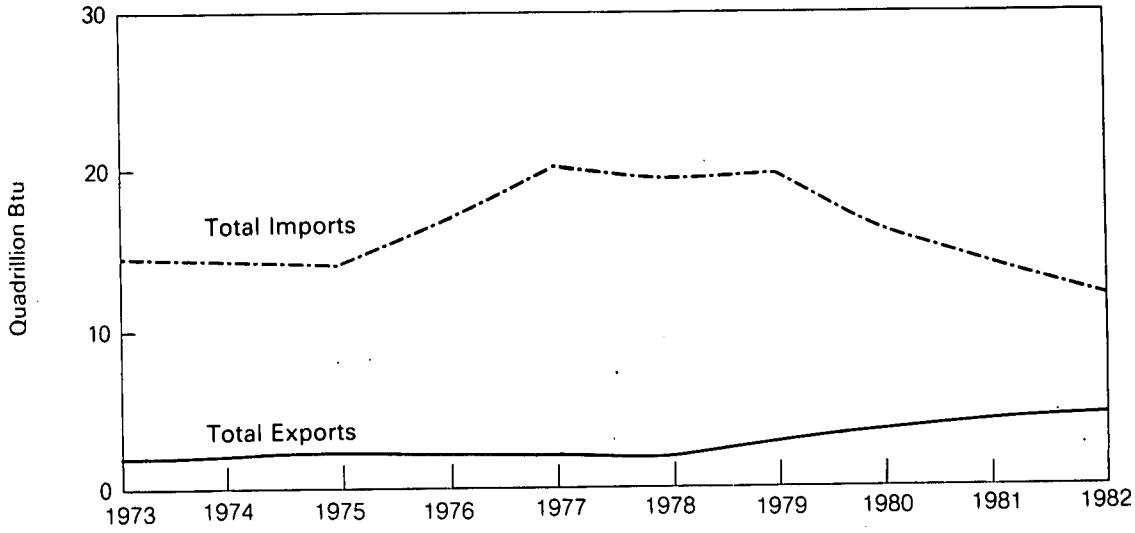
		Coal[2]	Crude Oil[3]	Refined Petroleum Products[4]	Natural Gas (Dry)	Electricity	Coal Coke	Total Net Imports	Yearly Cumulative Net Imports of Energy
		Quadrillion (10^{15}) Btu							
1973	**TOTAL**	**(1.443)**	**6.883**	**6.097**	**0.981**	**0.148**	**(0.008)**	**12.659**	
1974	**TOTAL**	**(1.585)**	**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**	**0.204**	**0.131**	**17.309**	
1979	**TOTAL**	**(1.730)**	**13.328**	**3.603**	**1.243**	**0.211**	**0.066**	**16.720**	
1980	**TOTAL**	**(2.390)**	**10.586**	**2.912**	**0.957**	**0.217**	**(0.037)**	**12.246**	
1981	January	(0.151)	0.829	0.293	0.087	0.028	0.000	1.085	1.085
	February	(0.175)	0.762	0.240	0.081	0.025	(0.001)	0.932	2.018
	March	(0.252)	0.778	0.196	0.076	0.028	(0.003)	0.823	2.840
	April	(0.215)	0.723	0.161	0.065	0.027	(0.001)	0.759	3.599
	May	(0.157)	0.717	0.210	0.059	0.028	0.000	0.857	4.456
	June	(0.158)	0.687	0.181	0.061	0.027	(0.004)	0.794	5.250
	July	(0.281)	0.728	0.210	0.062	0.028	0.000	0.747	5.997
	August	(0.292)	0.717	0.199	0.060	0.028	0.000	0.712	6.709
	September	(0.310)	0.794	0.219	0.062	0.027	(0.002)	0.790	7.498
	October	(0.321)	0.749	0.184	0.075	0.028	(0.003)	0.713	8.211
	November	(0.308)	0.658	0.214	0.078	0.027	0.000	0.668	8.879
	December	(0.299)	0.712	0.215	0.089	0.028	(0.003)	0.741	9.621
	TOTAL	**(2.918)**	**8.854**	**2.522**	**0.855**	**0.325**	**(0.017)**	**9.621**	
1982	January	(0.160)	0.615	0.171	0.099	0.028	0.000	0.753	0.753
	February	(0.234)	0.431	0.194	0.090	0.025	(0.001)	0.505	1.258
	March	(0.273)	0.457	0.180	0.086	0.028	(0.002)	0.477	1.735
	April	(0.283)	0.461	0.143	0.074	0.027	(0.001)	0.421	2.156
	May	(0.262)	0.551	0.160	0.066	0.028	(0.003)	0.540	2.695
	June	(0.279)	0.644	0.139	0.064	0.027	(0.004)	0.590	3.285
	July	(0.239)	0.724	0.174	0.063	0.028	(0.003)	0.747	4.032
	August	(0.190)	0.634	0.134	0.061	0.028	(0.001)	0.666	4.698
	September	(0.225)	0.597	0.192	0.063	0.027	(0.003)	0.650	5.347
	October	(0.259)	0.607	0.160	0.072	0.028	(0.001)	0.606	5.953
	November	(0.202)	0.629	0.225	0.085	0.027	(0.002)	0.762	6.715
	December	(0.157)	0.499	0.161	0.106	0.028	(0.001)	0.636	7.351
	TOTAL	**(2.763)**	**6.848**	**2.033**	**0.930**	**0.326**	**(0.023)**	**7.351**	
1983	January	(0.115)	0.509	0.097	0.117	0.028	(0.001)	0.633	0.633
	February	(0.113)	0.327	0.127	0.098	0.025	(0.001)	0.463	1.096
	March	(0.162)	0.371	0.132	0.087	0.028	(0.001)	0.455	1.552

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Net imports equals 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.
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

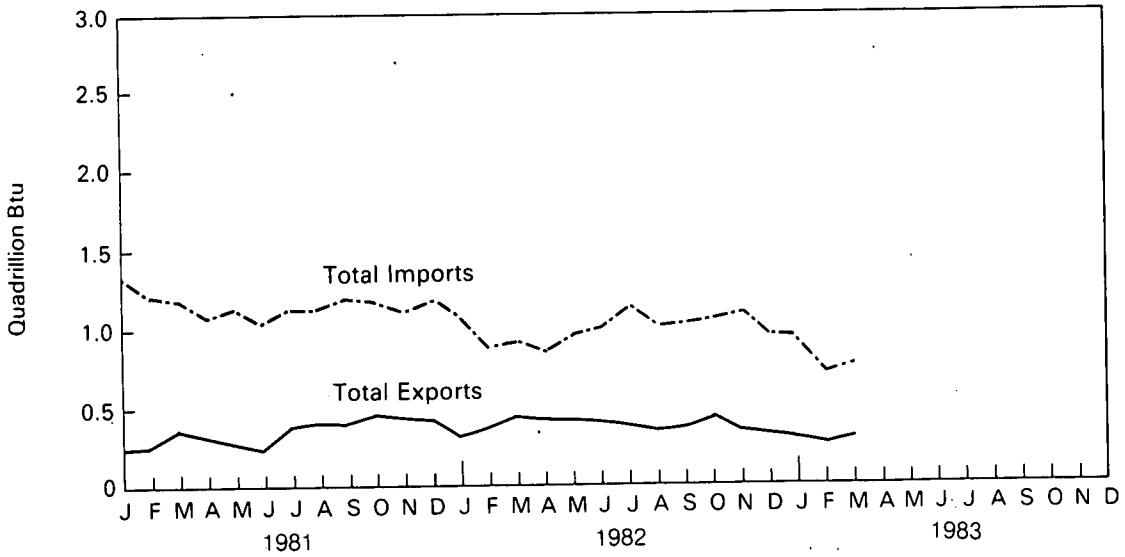
Executive Summary

Energy Imports and Exports

Yearly



Monthly



Executive Summary

Merchandise Trade Value

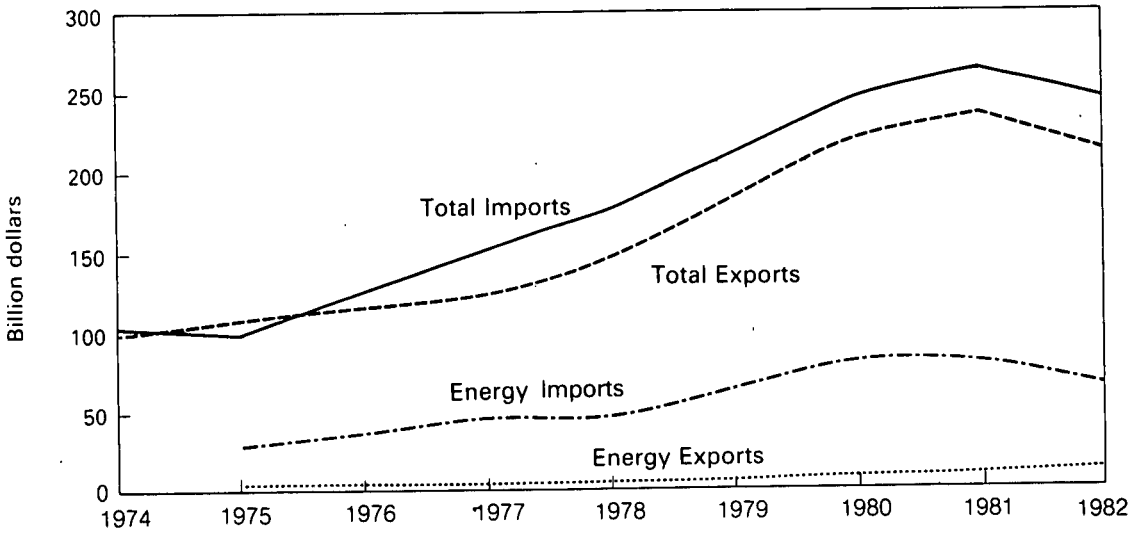
		Exports			Imports			Trade Balance		
		Energy	All Other	Total	Energy	All Other	Total	Energy	All Other	Total
					Million dollars					
1974	**TOTAL**	**NA**	**NA**	**98,092**	**NA**	**NA**	**102,559**	**NA**	**NA**	**-4,467**
1975	**TOTAL**	**4,470**	**103,182**	**107,652**	**28,325**	**70,178**	**98,503**	**-23,855**	**+33,004**	**+9,149**
1976	**TOTAL**	**4,226**	**110,997**	**115,223**	**36,384**	**87,093**	**123,477**	**-32,158**	**+23,904**	**-8,254**
1977	**TOTAL**	**4,184**	**117,048**	**121,232**	**47,153**	**103,237**	**150,390**	**-42,969**	**+13,811**	**-29,158**
1978	**TOTAL**	**3,882**	**139,799**	**143,681**	**44,763**	**129,994**	**174,757**	**-40,881**	**+9,805**	**-31,076**
1979	**TOTAL**	**5,675**	**176,185**	**181,860**	**63,077**	**146,381**	**209,458**	**-57,402**	**+29,804**	**-27,599**
1980	**TOTAL**	**7,982**	**212,644**	**220,626**	**82,924**	**161,947**	**244,871**	**-74,942**	**+50,697**	**-24,244**
1981	January	756	18,146	18,902	8,007	14,609	22,616	-7,251	+3,537	-3,714
	February	999	18,789	19,788	7,939	13,977	21,916	-6,940	+4,812	-2,127
	March	939	20,339	21,278	6,471	14,558	21,029	-5,532	+5,781	+249
	April	738	19,048	19,786	7,831	14,418	22,249	-7,093	+4,630	-2,463
	May	593	18,306	18,899	6,075	15,157	21,232	-5,482	+3,149	-2,333
	June	565	19,185	19,750	7,252	14,753	22,005	-6,687	+4,432	-2,255
	July	847	18,442	19,289	5,687	14,427	20,114	-4,840	+4,015	-825
	August	884	18,147	19,031	6,876	16,366	23,242	-5,992	+1,781	-4,212
	September	939	18,612	19,551	6,555	14,719	21,274	-5,616	+3,893	-1,724
	October	991	18,172	19,163	6,638	16,439	23,077	-5,648	+1,733	-3,914
	November	997	18,156	19,153	6,608	15,900	22,508	-5,611	+2,256	-3,356
	December	1,067	17,818	18,885	5,422	14,324	19,746	-4,355	+3,494	-861
	TOTAL	**10,279**	**223,398**	**233,677**	**81,360**	**179,622**	**260,982**	**-71,081**	**+43,776**	**-27,305**
1982	January	1,205	17,379	18,584	7,439	15,134	22,573	-6,234	+2,245	-3,989
	February	1,361	17,253	18,614	5,107	14,463	19,570	-3,746	+2,790	-956
	March	1,256	17,206	18,462	5,009	15,010	20,019	-3,753	+2,196	-1,557
	April	1,201	16,804	18,005	4,312	13,402	17,714	-3,111	+3,402	+291
	May	1,065	17,059	18,124	4,167	16,310	20,477	-3,102	+749	-2,353
	June	1,035	17,788	18,823	5,427	15,760	21,187	-4,392	+2,028	-2,364
	July	974	17,086	18,060	5,943	13,906	19,849	-4,969	+3,180	-1,790
	August	961	16,502	17,463	6,353	16,577	22,930	-5,392	-75	-5,467
	September	998	16,322	17,320	5,201	15,380	20,581	-4,203	+942	-3,261
	October	1,072	15,599	16,671	5,947	15,059	21,006	-4,875	+540	-4,335
	November	847	15,005	15,852	5,037	13,855	18,892	-4,190	+1,150	-3,041
	December	855	15,492	16,347	5,468	13,686	19,154	-4,613	+1,806	-2,808
	TOTAL	**12,729**	**199,464**	**212,193**	**65,409**	**178,543**	**243,952**	**-52,680**	**+20,921**	**-31,759**
1983	January	1,132	16,261	17,393	5,142	14,879	20,021	-4,010	+1,382	-2,628
	February	878	15,448	16,326	3,704	15,311	19,015	-2,826	+137	-2,689
	March	850	15,902	16,752	3,865	15,660	19,525	-3,015	+241	-2,774
	April	892	15,182	16,074	3,763	16,008	19,771	-2,871	-826	-3,697

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

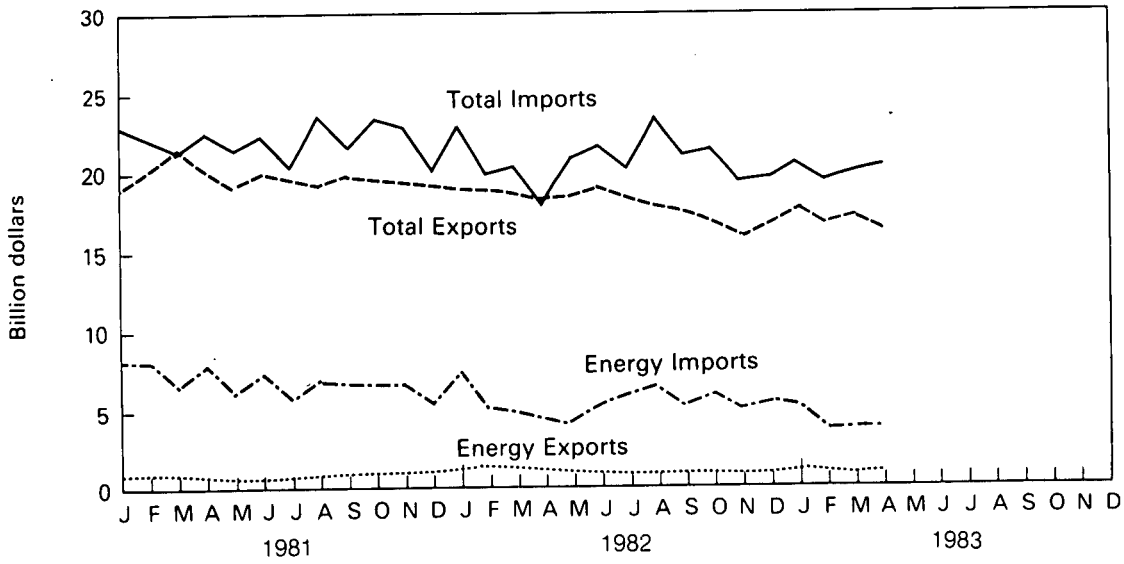
Executive Summary

Merchandise Trade Value

Yearly



Monthly

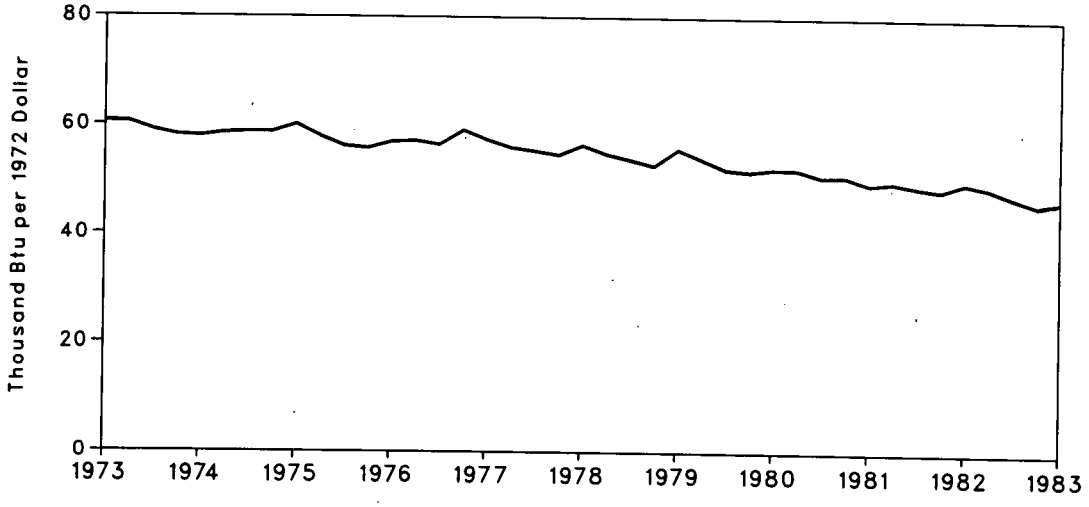


Executive Summary

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

		Annual Rate of Energy Consumption	Gross National Product Current Dollars	Gross National Product 1972 Dollars[1]	Energy Consumption per GNP Dollar
		Quadrillion Btu	Trillion Dollars		Thousand Btu per 1972 Dollar
1973		**74.609**	**1.326**	**1.254**	**59.5**
1974		**72.759**	**1.434**	**1.246**	**58.4**
1975		**70.707**	**1.549**	**1.232**	**57.4**
1976		**74.510**	**1.718**	**1.298**	**57.4**
1977		**76.332**	**1.918**	**1.370**	**55.7**
1978		**78.175**	**2.164**	**1.439**	**54.3**
1979		**78.910**	**2.418**	**1.479**	**53.4**
1980		**75.988**	**2.633**	**1.474**	**51.6**
1981	1st Qtr[2]	74.594	2.865	1.508	49.5
	2nd Qtr[2]	74.977	2.902	1.502	49.9
	3rd Qtr[2]	74.313	2.981	1.510	49.1
	4th Qtr[2]	72.171	3.003	1.490	48.5
	YEAR	**73.984**	**2.938**	**1.503**	**49.2**
1982	1st Qtr[2]	73.284	2.996	1.471	49.8
	2nd Qtr[2]	72.410	3.045	1.478	49.0
	3rd Qtr[2]	70.393	3.088	1.481	47.5
	4th Qtr[2]	67.485	3.108	1.477	45.7
	YEAR	**70.842**	**3.059**	**1.477**	**48.0**
1983	1st Qtr[2]	68.490	3.171	1.486	46.1

Energy Consumption per GNP Dollar (Seasonally Adjusted)



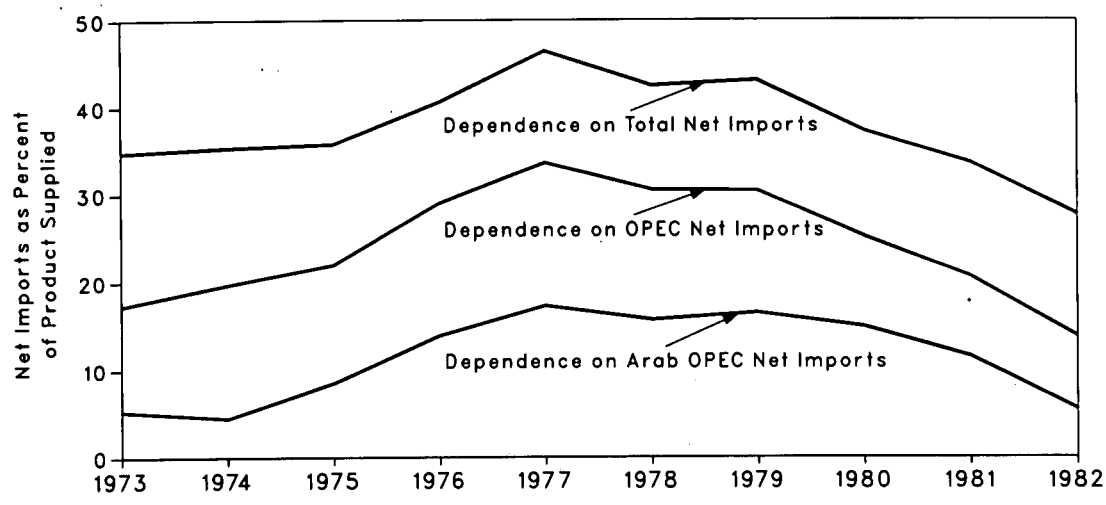
Geographic coverage: the 50 United States and the District of Columbia.
Yearly data may not equal sum of quarters due to seasonality adjustments and independent rounding.
[1]Current dollars are converted to 1972 dollars by the Department of Commerce, Bureau of Economic Analysis.
[2]Quarterly data are seasonally adjusted and shown at annual rates.
Sources: See the last page of this section.

Executive Summary

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

		Net Imports[2]			Domestic Petroleum Products Supplied	Net Imports as Percent of U.S. Petroleum Products Supplied		
		from Arab OPEC[3] Countries	from All OPEC[4] Countries	from All Countries		from Arab OPEC[3] Countries	from All OPEC[4] Countries	from All Countries
ANNUAL RATE			Thousand Barrels per Day				Percent	
1973	AVERAGE	915	2,991	6,025	17,308	5.3	17.3	34.8
1974	AVERAGE	751	3,277	5,891	16,653	4.5	19.7	35.4
1975	AVERAGE	1,382	3,598	5,847	16,322	8.5	22.0	35.8
1976	AVERAGE	2,423	5,063	7,090	17,461	13.9	29.0	40.6
1977	AVERAGE	3,184	6,190	8,564	18,431	17.3	33.6	46.5
1978	AVERAGE	2,962	5,747	8,001	18,847	15.7	30.5	42.5
1979	AVERAGE	3,054	5,632	7,985	18,513	16.5	30.4	43.1
1980	AVERAGE	2,549	4,293	6,365	17,056	14.9	25.2	37.3
1981	1st Qtr	2,060	3,804	5,964	17,113	12.0	22.2	34.9
	2nd Qtr	1,786	3,117	5,099	15,597	11.5	20.0	32.7
	3rd Qtr	1,857	3,181	5,400	15,532	12.0	20.5	34.8
	4th Qtr	1,679	3,167	5,151	16,008	10.5	19.8	32.2
	AVERAGE	1,845	3,315	5,401	16,058	11.5	20.6	33.6
1982	1st Qtr	1,094	2,361	3,959	15,792	6.9	15.0	25.1
	2nd Qtr	799	1,894	4,002	15,270	5.2	12.4	26.2
	3rd Qtr	797	2,196	4,630	14,842	5.4	14.8	31.2
	4th Qtr	666	1,966	4,307	15,121	4.4	13.0	28.5
	AVERAGE	837	2,103	4,226	15,253	5.5	13.8	27.7
1983	1st Qtr	346	1,139	3,024	15,015	2.3	7.6	20.1

U.S. Dependence on Petroleum Net Imports



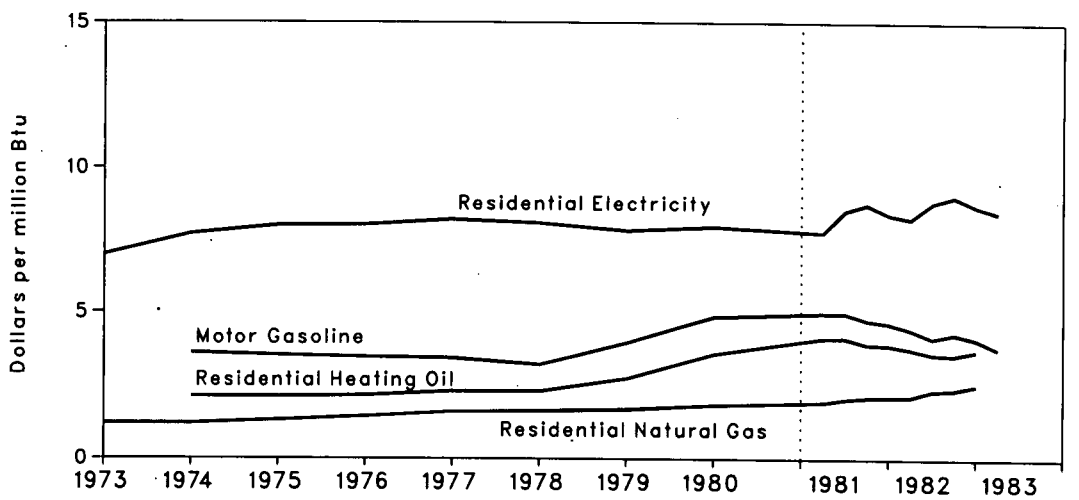
Geographic coverage: the 50 United States and the District of Columbia.
[1]Beginning in October 1977, Strategic Petroleum Reserves are included.
[2]Net imports equals imports minus exports. Imports from OPEC countries exclude indirect imports which are refined products imported primarily from Caribbean and West European areas and refined from crude oil produced in OPEC countries.
[3]Includes Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.
[4]Includes Arab OPEC countries plus Ecuador, Gabon, Indonesia, Iran, Nigeria, and Venezuela.
Sources: See the last page of this section.

Executive Summary

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

		Leaded Regular Motor Gasoline		Residential Heating Oil		Residential Natural Gas		Residential Electricity	
		cent/gal	$/MMBtu	cent/gal	$/MMBtu	cent/Mcf	$/MMBtu	cent/kWh	$/MMBtu
1973	**AVERAGE**	**NA**	**NA**	**NA**	**NA**	**121.2**	**1.19**	**2.39**	**7.00**
1974	**AVERAGE**	**45.1**	**3.61**	**29.4**	**2.12**	**121.4**	**1.19**	**2.63**	**7.71**
1975	**AVERAGE**	**44.1**	**3.53**	**29.3**	**2.11**	**132.8**	**1.30**	**2.73**	**8.00**
1976	**AVERAGE**	**43.4**	**3.47**	**29.8**	**2.15**	**145.4**	**1.43**	**2.74**	**8.03**
1977	**AVERAGE**	**42.9**	**3.43**	**31.8**	**2.29**	**162.2**	**1.59**	**2.80**	**8.21**
1978	**AVERAGE**	**40.1**	**3.21**	**31.7**	**2.29**	**164.4**	**1.62**	**2.76**	**8.09**
1979	**AVERAGE**	**49.4**	**3.95**	**37.8**	**2.73**	**171.5**	**1.68**	**2.67**	**7.83**
1980	**AVERAGE**	**60.5**	**4.84**	**49.7**	**3.58**	**186.9**	**1.83**	**2.72**	**7.97**
1981	1st Qtr	62.1	4.97	57.0	4.11	197.5	1.93	2.65	7.77
	2nd Qtr	62.1	4.97	57.2	4.12	209.1	2.04	2.91	8.53
	3rd Qtr	59.3	4.74	54.4	3.92	215.0	2.10	2.99	8.76
	4th Qtr	57.9	4.63	54.0	3.89	216.3	2.11	2.87	8.41
	AVERAGE	**60.4**	**4.83**	**55.7**	**4.01**	**209.7**	**2.05**	**2.85**	**8.35**
1982	1st Qtr	55.3	4.42	52.2	3.76	218.3	2.13	2.82	8.26
	2nd Qtr	51.7	4.13	49.8	3.59	239.0	2.33	3.01	8.82
	3rd Qtr	53.5	4.28	49.4	3.56	242.2	2.37	3.08	9.03
	4th Qtr	51.3	4.10	51.3	3.70	257.8	2.52	2.97	8.70
	AVERAGE	**53.0**	**4.24**	**51.4**	**3.71**	**239.7**	**2.34**	**2.97**	**8.70**
1983	1st Qtr	47.1	3.77	NA	NA	NA	NA	2.89	8.47

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



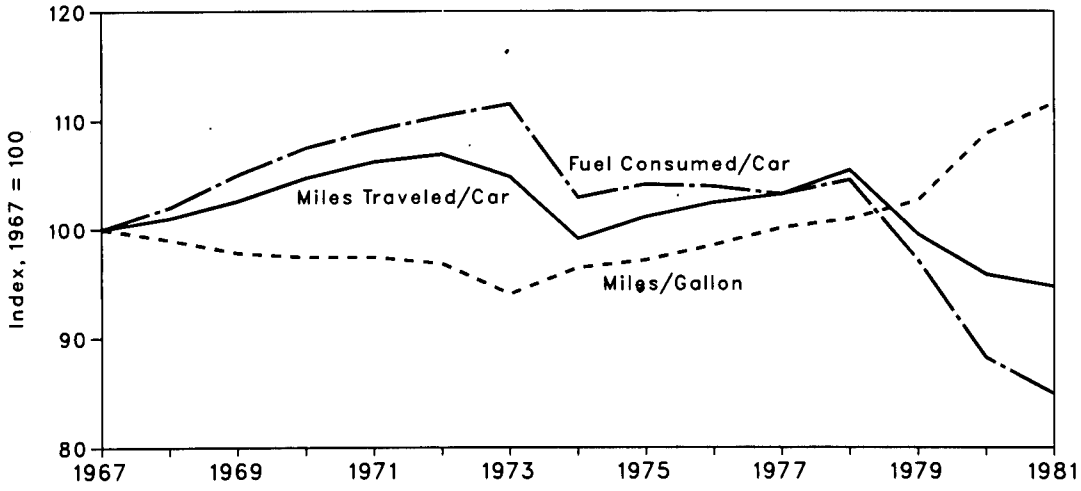
Geographic coverage: the 50 United States and the District of Columbia.
NA=Not available.
Sources: • See the last page of this section.

Executive Summary

Energy Indicator—U.S. Passenger Car Efficiency

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

U.S. Passenger Car Efficiency Index



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

Notes and Sources for the Executive Summary Section

Notes

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

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

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

Sources

Merchandise Trade Value: • 1974 through 1980: U.S. Department of Commerce, Bureau of the Census, "Highlights of U.S. Export and Import Trade," FT990 (January 1982), Appendix for total imports and exports. Energy imports and exports from U.S. Department of Commerce, Bureau of the Census, "Summary of U.S. Export and Import Merchandise Trade," December issues, plus Bureau of the Census reports EA691 "Exports from the Virgin Islands to Foreign Countries," and IA245V "U.S. Imports for Consumption and General Imports into the Virgin Islands."
• 1981 forward: U.S. Department of Commerce, Bureau of the Census, "Summary of U.S. Export and Import Merchandise Trade," most recent monthly issue.
Gross National Product: • U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business.*
U.S. Dependence on Petroleum Net Imports: • Imports and products supplied—Part 3 of this publication.
• Exports—1973 through 1976: Bureau of Mines, *Mineral Industry Surveys*; 1977 through 1981: Energy Information Administration (EIA), *Energy Data Reports*, "Petroleum Statement, Annual;" 1982 forward: EIA, *Petroleum Statement, Monthly.*
Cost of Fuels to End Users in Constant (1972) Dollars: • Motor gasoline—Bureau of Labor Statistics.
• Heating oil—Energy Information Administration (EIA), 1974 and 1975: Form CLC-92, "No. 2 Heating Oil Monthly Price Adjustment Report"; 1976 forward: FEA Form P112-M-1 and EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report."
• Natural gas—1973 through 1979: Bureau of Mines Form 6-1340-A, "Supply and Disposition of Natural Gas (non-producing distributors report)" and Form 6-1341-A, "Supply and Disposition of Natural Gas." 1980: Energy Information Administration Form EIA-176, "Supply and Disposition of Natural Gas." 1981 forward: Bureau of Labor Statistics (BLS).
• Electricity—Federal Energy Regulatory Commission (FERC), 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: FERC Form 5, "Electric Utility Company Monthly Statement."
• Deflator (The Consumer Price Index)—U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business.*
U.S. Passenger Car Efficiency: • Indexes prepared from statistics published by the U.S. Department of Transportation, Federal Highway Administration, Federal Highway Statistics Division, "Highway Statistics," Table VM-1.

Energy Consumption

Total U.S. energy consumption in March 1983 was 6.2 quadrillion Btu, 2.5 percent below the March 1982 level.

Residential and commercial sector consumption was 2.3 quadrillion Btu in March 1983, down 6.3 percent from the March 1982 level. The residential and commercial sector accounted for 36.6 percent of the March 1983 total consumption, down from the sector's 38.1-percent share in March 1982.

Industrial sector consumption was 2.3 quadrillion Btu in March 1983, down 1.0 percent from the March 1982 level. This sector consumed 36.6 percent of the March 1983 total, up from the sector's 36.0-percent share in March 1982.

Transportation sector consumption was 1.7 quadrillion Btu in March 1983, up 1.1 percent from the March 1982 level. This sector consumed 26.7 percent of the March 1983 total, compared to the sector's 25.8-percent share in March 1982.

The electric utilities consumption was an estimated 2.0 quadrillion Btu of energy in March 1983, 2.4 percent lower than in March 1982. Coal contributed 50.8 percent of the energy consumed by electric utilities in March 1983, while hydroelectric power contributed 17.5 percent; nuclear power, 13.4 percent; natural gas, 11.0 percent; petroleum, 6.8 percent; and geothermal and wood and waste, 0.5 percent.

Energy Consumption Summary for March 1983

(Quadrillion (10^{15}) Btu)

Primary Energy Source	Sector: Residential and Commercial	Industrial	Transportation	Electric Utilities	TOTAL
Coal	0.014	0.226	0.000	0.992	1.235
Natural Gas (dry)	0.820	0.649	0.057	0.215	1.743
Petroleum	0.192	0.691	1.599	0.133	2.615
Hydroelectric	0.000	0.003	0.000	0.342	0.345
Nuclear	0.000	0.000	0.000	0.261	0.261
Net Coke Imports	0.000	(0.001)	0.000	0.000	(0.001)
Other	0.000	0.000	0.000	0.010	0.010
TOTAL PRIMARY ENERGY	**1.025**	**1.568**	**1.656**	**1.952**	**6.207**
Electricity Sales	0.366	0.206	0.001	(0.572)	
Net Energy Consumption	1.391	1.774	1.657		4.827
Electrical Energy Losses	0.882	0.496	0.002	(1.380)	1.380
TOTAL ENERGY CONSUMED	**2.273**	**2.270**	**1.659**		**6.207**

Totals may not equal sum of components due to independent rounding and, in the case of coal, the use of preliminary conversion factors.
Notes and sources for this table and all other tables in this section are provided on the last four pages of this section.

Consumption

Consumption of Energy by End-Use Sector

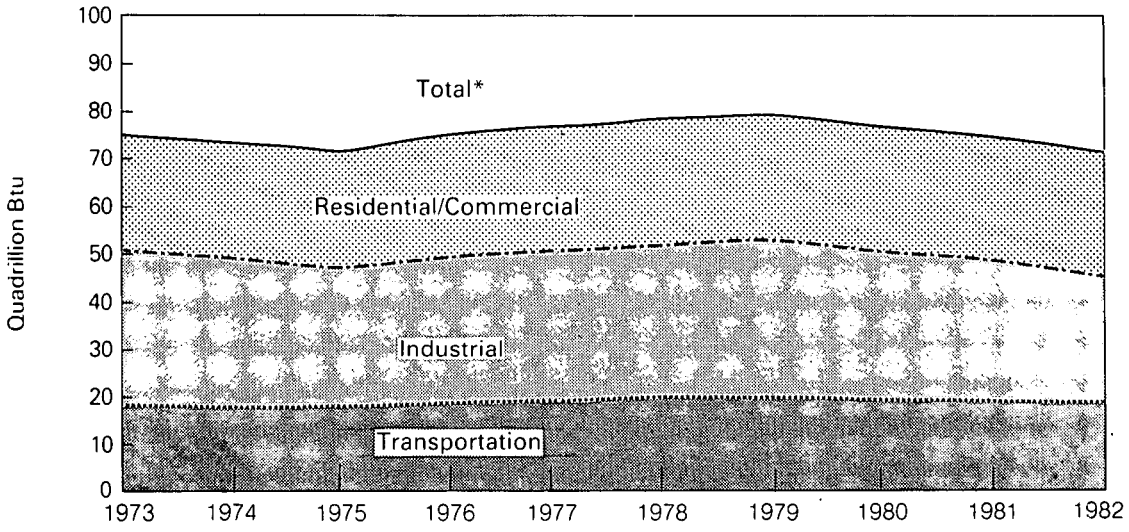
		Residential and Commercial	Industrial	Transportation	Total Energy Consumed
		Quadrillion (10^{15}) Btu			
1973	**TOTAL**	**24.179**	**31.846**	**18.577**	**74.609**
1974	**TOTAL**	**23.761**	**30.900**	**18.091**	**72.759**
1975	**TOTAL**	**23.928**	**28.569**	**18.209**	**70.707**
1976	**TOTAL**	**25.041**	**30.393**	**19.068**	**74.510**
1977	**TOTAL**	**25.392**	**31.149**	**19.785**	**76.332**
1978	**TOTAL**	**26.108**	**31.493**	**20.574**	**78.175**
1979	**TOTAL**	**25.796**	**32.652**	**20.457**	**78.910**
1980	**TOTAL**	**25.666**	**30.638**	**19.683**	**75.988**
1981	January	3.154	2.647	1.657	7.459
	February	2.640	2.221	1.471	6.330
	March	2.316	2.511	1.614	6.440
	April	1.833	2.279	1.599	5.709
	May	1.705	2.425	1.633	5.764
	June	1.758	2.392	1.662	5.816
	July	1.900	2.419	1.700	6.023
	August	1.845	2.422	1.654	5.924
	September	1.656	2.393	1.603	5.650
	October	1.809	2.523	1.640	5.971
	November	1.988	2.418	1.571	5.975
	December	2.608	2.634	1.677	6.922
	TOTAL	**25.213**	**29.285**	**19.481**	**73.984**
1982	January	3.259	2.452	1.493	7.210
	February	2.807	2.055	1.422	6.286
	March	R2.426	R2.294	1.641	6.364
	April	2.050	2.098	1.711	5.860
	May	1.704	2.082	1.645	5.436
	June	1.684	2.102	1.607	5.400
	July	1.892	2.132	1.624	5.660
	August	1.872	2.136	1.617	5.635
	September	1.712	2.082	1.565	5.367
	October	1.760	2.194	1.575	5.534
	November	2.025	2.206	1.568	5.806
	December	2.486	2.193	1.597	6.285
	TOTAL	**R25.677**	**R26.026**	**19.065**	**70.842**
1983	January	2.828	R2.270	1.426	R6.529
	February	2.520	R1.925	1.348	R5.796
	March	2.273	2.270	1.659	6.207

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

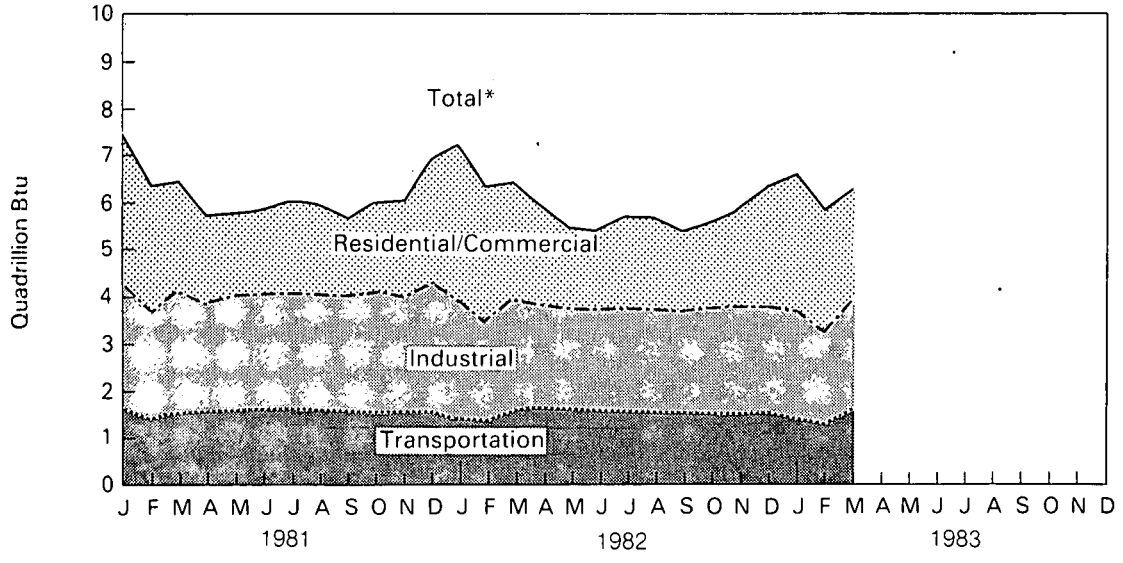
Consumption

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

		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Quadrillion (10^{15}) Btu			
1973	**TOTAL**	**0.291**	**7.626**	**4.391**	**3.495**	**8.377**	**24.179**	
1974	**TOTAL**	**0.292**	**7.518**	**3.996**	**3.475**	**8.480**	**23.761**	
1975	**TOTAL**	**0.238**	**7.581**	**3.805**	**3.604**	**8.700**	**23.928**	
1976	**TOTAL**	**0.227**	**7.866**	**4.181**	**3.747**	**9.020**	**25.041**	
1977	**TOTAL**	**0.225**	**7.461**	**4.206**	**3.955**	**9.545**	**25.392**	
1978	**TOTAL**	**0.239**	**7.624**	**4.070**	**4.116**	**10.060**	**26.108**	
1979	**TOTAL**	**0.210**	**7.891**	**3.448**	**4.184**	**10.064**	**25.796**	
1980	**TOTAL**	**0.160**	**7.539**	**3.035**	**4.355**	**10.578**	**25.666**	
1981	January	0.022	1.268	0.437	0.425	1.002	3.154	3.154
	February	0.018	1.122	0.293	0.391	0.816	2.640	5.794
	March	0.012	0.911	0.202	0.355	0.836	2.316	8.110
	April	0.014	0.590	0.148	0.325	0.756	1.833	9.943
	May	0.012	0.421	0.155	0.321	0.796	1.705	11.648
	June	0.008	0.291	0.148	0.365	0.947	1.758	13.406
	July	0.011	0.241	0.138	0.429	1.081	1.900	15.306
	August	0.011	0.236	0.149	0.431	1.019	1.845	17.152
	September	0.015	0.246	0.153	0.392	0.850	1.656	18.808
	October	0.016	0.390	0.249	0.348	0.807	1.809	20.617
	November	0.021	0.583	0.257	0.336	0.790	1.988	22.605
	December	0.026	0.942	0.306	0.380	0.954	2.608	25.213
	TOTAL	**0.186**	**7.242**	**2.635**	**4.497**	**10.653**	**25.213**	
1982	January	0.024	1.358	0.361	0.439	1.077	3.259	3.259
	February	0.017	1.235	0.278	0.408	0.869	2.807	6.066
	March	0.014	0.955	0.202	R0.372	0.884	R2.426	R8.492
	April	0.017	0.715	0.174	0.346	0.797	2.050	R10.542
	May	0.011	0.385	0.161	0.327	0.819	1.704	12.247
	June	0.009	0.284	0.147	0.358	0.888	1.684	R13.931
	July	0.016	0.250	0.132	0.412	1.082	1.892	R15.823
	August	0.017	0.239	0.144	0.431	1.042	1.872	R17.695
	September	0.016	0.248	0.154	0.403	0.891	1.712	R19.407
	October	0.016	0.345	0.232	0.349	0.817	1.760	21.167
	November	0.021	0.607	0.233	0.340	0.824	2.025	R23.191
	December	0.025	0.875	0.271	0.381	0.933	2.486	R25.677
	TOTAL	**0.203**	**7.498**	**2.489**	**R4.564**	**10.922**	**R25.677**	
1983	January	0.023	1.080	0.310	0.413	1.001	2.828	2.828
	February	0.018	1.048	0.238	0.390	0.826	2.520	5.348
	March	0.014	0.820	0.192	0.366	0.882	2.273	7.621

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
R=Revised data.
Notes and Sources: • See the last four pages of this section.

Consumption

Consumption of Energy by the Industrial Sector

		Coal	Natural Gas (Dry)	Petro-leum	Hydro-electric	Net Coke Imports	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
						Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**4.349**	**10.388**	**9.132**	**0.035**	**(0.008)**	**2.341**	**5.610**	**31.846**	
1974	**TOTAL**	**4.048**	**10.003**	**8.720**	**0.033**	**0.059**	**2.337**	**5.700**	**30.900**	
1975	**TOTAL**	**3.797**	**8.532**	**8.182**	**0.032**	**0.014**	**2.346**	**5.665**	**28.569**	
1976	**TOTAL**	**3.786**	**8.761**	**9.043**	**0.033**	**0.000**	**2.573**	**6.197**	**30.393**	
1977	**TOTAL**	**3.498**	**8.636**	**9.809**	**0.033**	**0.015**	**2.682**	**6.476**	**31.149**	
1978	**TOTAL**	**3.372**	**8.539**	**9.905**	**0.032**	**0.131**	**2.761**	**6.755**	**31.493**	
1979	**TOTAL**	**3.636**	**8.549**	**10.582**	**0.034**	**0.066**	**2.873**	**6.912**	**32.652**	
1980	**TOTAL**	**3.181**	**8.394**	**9.535**	**0.033**	**(0.037)**	**2.781**	**6.751**	**30.638**	
1981	January	0.299	0.754	0.823	0.003	0.000	0.229	0.539	2.647	2.647
	February	0.277	0.525	0.707	0.003	(0.001)	0.230	0.480	2.221	4.868
	March	0.279	0.691	0.754	0.003	(0.003)	0.234	0.552	2.511	7.379
	April	0.260	0.589	0.654	0.003	(0.001)	0.232	0.542	2.279	9.659
	May	0.239	0.668	0.700	0.003	0.000	0.234	0.580	2.425	12.084
	June	0.232	0.616	0.665	0.003	(0.004)	0.244	0.635	2.392	14.476
	July	0.270	0.641	0.644	0.003	0.000	0.245	0.616	2.419	16.894
	August	0.273	0.668	0.651	0.002	0.000	0.246	0.581	2.422	19.316
	September	0.266	0.676	0.684	0.002	(0.002)	0.242	0.525	2.393	21.709
	October	0.268	0.806	0.666	0.002	(0.003)	0.236	0.548	2.523	24.232
	November	0.270	0.756	0.634	0.002	0.000	0.226	0.530	2.418	26.650
	December	0.271	0.871	0.725	0.002	(0.003)	0.219	0.549	2.634	29.285
	TOTAL	**3.205**	**8.260**	**8.308**	**0.033**	**(0.017)**	**2.817**	**6.677**	**29.285**	
1982	January	0.273	0.743	0.692	0.003	0.000	0.215	0.527	2.452	2.452
	February	0.255	0.489	0.640	0.003	(0.001)	0.214	0.456	2.055	4.507
	March	0.245	0.599	0.706	0.003	(0.002)	0.220	R0.523	R2.294	R6.801
	April	0.227	0.491	0.672	0.003	(0.001)	0.214	0.492	2.098	8.898
	May	0.219	0.479	0.636	0.003	(0.003)	0.213	0.534	2.082	R10.981
	June	0.204	0.524	0.618	0.003	(0.004)	0.217	0.539	2.102	R13.083
	July	0.199	0.521	0.637	0.003	(0.003)	0.214	0.562	2.132	R15.215
	August	0.201	0.534	0.662	0.002	(0.001)	0.216	0.523	2.136	17.350
	September	0.193	0.582	0.652	0.002	(0.003)	0.205	0.453	2.082	R19.433
	October	0.201	0.662	0.637	0.002	(0.001)	0.208	0.486	2.194	21.626
	November	0.204	0.682	0.610	0.002	(0.002)	0.207	0.502	2.206	R23.833
	December	0.207	0.603	0.693	0.002	(0.001)	0.199	0.489	2.193	R26.026
	TOTAL	**2.627**	**6.909**	**7.854**	**0.033**	**(0.023)**	**2.542**	**R6.085**	**R26.026**	
1983	January	0.251	R0.651	0.689	0.003	(0.001)	0.198	0.480	R2.270	R2.270
	February	0.237	R0.463	0.594	0.003	(0.001)	0.202	0.427	R1.925	R4.195
	March	0.226	0.649	0.691	0.003	(0.001)	0.206	0.496	2.270	6.465

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
R = Revised data.
Notes and Sources: • See the last four pages of this section.

Consumption

Consumption of Energy by the Transportation Sector

		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
				Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**0.003**	**0.743**	**17.803**	**0.009**	**0.020**	**18.577**	
1974	**TOTAL**	**0.002**	**0.685**	**17.374**	**0.009**	**0.022**	**18.091**	
1975	**TOTAL**	**0.001**	**0.595**	**17.579**	**0.010**	**0.025**	**18.209**	
1976	**TOTAL**	(1)	**0.559**	**18.473**	**0.010**	**0.025**	**19.068**	
1977	**TOTAL**	(1)	**0.543**	**19.207**	**0.010**	**0.025**	**19.785**	
1978	**TOTAL**	(1)	**0.539**	**20.004**	**0.009**	**0.022**	**20.574**	
1979	**TOTAL**	(1)	**0.612**	**19.810**	**0.010**	**0.025**	**20.457**	
1980	**TOTAL**	(1)	**0.648**	**18.999**	**0.011**	**0.026**	**19.683**	
1981	January	(1)	0.077	1.577	0.001	0.002	1.657	1.657
	February	(1)	0.065	1.403	0.001	0.002	1.471	3.128
	March	(1)	0.065	1.547	0.001	0.002	1.614	4.742
	April	(1)	0.050	1.546	0.001	0.002	1.599	6.342
	May	(1)	0.048	1.582	0.001	0.002	1.633	7.974
	June	(1)	0.044	1.614	0.001	0.002	1.662	9.636
	July	(1)	0.045	1.652	0.001	0.002	1.700	11.337
	August	(1)	0.044	1.607	0.001	0.002	1.654	12.991
	September	(1)	0.043	1.557	0.001	0.002	1.603	14.593
	October	(1)	0.051	1.586	0.001	0.002	1.640	16.233
	November	(1)	0.055	1.512	0.001	0.002	1.571	17.804
	December	(1)	0.071	1.603	0.001	0.002	1.677	19.481
	TOTAL	(1)	**0.658**	**18.786**	**0.011**	**0.026**	**19.481**	
1982	January	(1)	0.080	1.410	0.001	0.003	1.493	1.493
	February	(1)	0.067	1.352	0.001	0.002	1.422	2.915
	March	(1)	0.062	1.576	0.001	0.002	1.641	4.556
	April	(1)	0.050	1.658	0.001	0.002	1.711	6.267
	May	(1)	0.039	1.603	0.001	0.002	1.645	7.912
	June	(1)	0.038	1.566	0.001	0.002	1.607	9.519
	July	(1)	0.039	1.582	0.001	0.002	1.624	11.142
	August	(1)	0.039	1.575	0.001	0.002	1.617	12.759
	September	(1)	0.039	1.523	0.001	0.002	1.565	14.325
	October	(1)	0.044	1.528	0.001	0.002	1.575	15.900
	November	(1)	0.052	1.513	0.001	0.002	1.568	17.468
	December	(1)	0.058	1.535	0.001	0.002	1.597	19.065
	TOTAL	(1)	**0.607**	**18.421**	**0.011**	**0.027**	**19.065**	
1983	January	(1)	0.067	1.356	0.001	0.002	1.426	1.426
	February	(1)	0.058	1.287	0.001	0.002	1.348	2.775
	March	(1)	0.057	1.599	0.001	0.002	1.659	4.434

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

Consumption

Energy Input at Electric Utilities

		Coal	Natural Gas (Dry)	Petroleum[1]	Hydroelectric power[2]	Nuclear Electric Power	Other[3]	Total Energy Input	Yearly Cumulative Energy Input
					Quadrillion (10^{15}) Btu				
1973	**TOTAL**	**8.658**	**3.748**	**3.515**	**2.975**	**0.910**	**0.046**	**19.852**	
1974	**TOTAL**	**8.535**	**3.519**	**3.365**	**3.276**	**1.272**	**0.056**	**20.023**	
1975	**TOTAL**	**8.786**	**3.240**	**3.166**	**3.187**	**1.900**	**0.072**	**20.350**	
1976	**TOTAL**	**9.720**	**3.152**	**3.477**	**3.032**	**2.111**	**0.081**	**21.573**	
1977	**TOTAL**	**10.243**	**3.284**	**3.901**	**2.482**	**2.702**	**0.082**	**22.694**	
1978	**TOTAL**	**10.236**	**3.297**	**3.987**	**3.110**	**3.024**	**0.068**	**23.722**	
1979	**TOTAL**	**11.264**	**3.609**	**3.283**	**3.107**	**2.715**	**0.089**	**24.068**	
1980	**TOTAL**	**12.122**	**3.807**	**2.634**	**3.085**	**2.739**	**0.114**	**24.501**	
1981	January	1.153	0.239	0.275	0.260	0.259	0.011	2.198	2.198
	February	1.010	0.232	0.188	0.244	0.236	0.010	1.919	4.117
	March	1.020	0.283	0.184	0.241	0.240	0.011	1.979	6.097
	April	0.921	0.299	0.160	0.242	0.225	0.010	1.858	7.955
	May	0.949	0.327	0.156	0.278	0.215	0.010	1.935	9.890
	June	1.056	0.394	0.203	0.301	0.231	0.010	2.194	12.084
	July	1.184	0.425	0.214	0.289	0.252	0.011	2.374	14.458
	August	1.149	0.403	0.171	0.252	0.294	0.011	2.279	16.737
	September	1.022	0.336	0.165	0.212	0.266	0.011	2.012	18.750
	October	1.008	0.312	0.171	0.216	0.224	0.011	1.941	20.691
	November	0.991	0.268	0.146	0.224	0.249	0.010	1.886	22.577
	December	1.120	0.248	0.169	0.276	0.284	0.010	2.105	24.682
	TOTAL	**12.583**	**3.764**	**2.202**	**3.033**	**2.974**	**0.127**	**24.682**	
1982	January	1.198	0.246	0.221	0.307	0.280	0.009	2.261	2.261
	February	1.031	0.228	0.162	0.302	0.220	0.008	1.950	4.211
	March	1.010	0.255	0.144	0.338	0.248	0.007	2.001	6.213
	April	0.917	0.255	0.120	0.317	0.238	0.007	1.853	8.065
	May	0.962	0.267	0.106	0.318	0.236	0.008	1.897	9.962
	June	1.000	0.306	0.111	0.317	0.262	0.010	2.005	11.967
	July	1.165	0.365	0.144	0.311	0.278	0.010	2.273	14.240
	August	1.156	0.374	0.125	0.276	0.273	0.010	2.214	16.453
	September	1.021	0.303	0.110	0.233	0.277	0.010	1.954	18.407
	October	0.977	0.282	0.106	0.233	0.254	0.011	1.862	20.270
	November	1.008	0.234	0.100	0.269	0.253	0.011	1.875	22.145
	December	1.073	0.222	0.120	0.316	0.266	0.009	2.006	24.151
	TOTAL	**12.517**	**3.335**	**1.568**	**3.538**	**3.084**	**0.108**	**24.151**	
1983	January	1.125	0.215	0.137	0.332	0.274	0.011	2.094	2.094
	February	0.965	0.183	0.134	0.315	0.242	0.008	1.848	3.942
	March	0.992	0.215	0.133	0.342	0.261	0.010	1.952	5.895

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

Notes and Sources for the Consumption Section

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

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

2. **Conversion Factors:** See the inside back cover of this publication for factors applied in converting physical unit data into British thermal units (Btu).

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

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

4. **Natural Gas:** Total natural gas consumption is estimated monthly based on a supply disposition balance calculation. Residential and commercial sector monthly consumption is estimated by allocating the EIA annual residential and commercial sector consumption to the months in proportion to the American Gas Association (AGA) monthly sales to the residential and commercial sector. For current incomplete years, the AGA monthly sales data are used temporarily. Monthly transportation consumption (which is natural gas for pipeline use) for complete years is estimated by allocating the EIA annual transportation total to the months based on each month's total natural gas consumption as a share of the annual total natural gas consumption. For the current incomplete year, each month's transportation total is estimated by applying the percentage of total natural gas accounted for by the transportation sector in the same month a year ago to the current month's total natural gas consumption. Electric utilities consumption of natural gas is available monthly from EIA Form 759 (formerly FPC Form 4), "Monthly Power 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 through 1978: EIA, *Energy Data Reports,* "Natural Gas, Annual."
- 1979: EIA, *Natural Gas Production and Consumption 1979.*
- 1980 and 1981: EIA, *Natural Gas Annual.*
- 1982 forward: EIA, *Natural Gas Monthly.*
- Electric utilities consumption—1973 through 1976: FPC Form 4, "Monthly Power Plant Report."
  1977 through 1981: Federal Energy Regulatory Commission (FERC), FPC Form 4, "Monthly Power Plant Report."
  1982 forward: EIA, EIA Form 759, "Monthly Power Plant Report."
- American Gas Association, "Monthly Gas Utility Statistical Report."

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

Sources for petroleum products supplied by individual products are:
- 1973 through 1975: DOI, BOM, *Mineral Industry Surveys,* "Petroleum Statement, Annual."
- 1976 through 1980: EIA, *Energy Data Reports,* "Petroleum Statement, Annual."
- 1981: EIA, *Petroleum Supply Annual.*
- 1982 forward: EIA, *Petroleum Supply Monthly.*

Specific petroleum products' end-use allocation procedures follow:

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

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

- **Distillate Fuel**
  - ***Electric Utility Sector, All Periods.***
    Monthly and annual consumption in 1973 through 1979 is assumed to be the amount of oil (minus small amounts of kerosene and kerosene-type jet fuel deliveries) reported as consumed in internal combustion and gas turbine engine plants. From January 1980, electric utility consumption of distillate fuel is assumed to be the petroleum products reported as "light oil" (minus kerosene deliveries) consumed at utilities. Sources: 1973 through September 1977—FPC Form 4, "Monthly Power Plant Report;" October 1977 through 1981—FERC, FPC Form 4, "Monthly Power Plant Report;" 1982 forward—EIA, Form EIA-759, "Monthly Power Plant Report."

Notes and Sources for the Consumption Section (continued)

— ***Nonutility Sectors, Annual Estimates.***
The aggregate nonutility use of distillate fuel is total distillate fuel supplied minus the electric utility consumption. The nonutility annual totals are allocated into the individual nonutility sectors in proportion to the amount of distillate fuel delivered to end-users, grouped into sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports (based primarily on data collected by Form EIA-172) as follows:
- Residential sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981. Deliveries for 1981 are used as estimates for 1982. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;
- Commercial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981. Deliveries for 1981 are used as estimates for 1982. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;
- Industrial sector deliveries for 1979 through 1981 are the sum of deliveries for industrial, farm, oil company, off-highway, diesel, and all other uses. Deliveries for 1981 are used as estimates for 1982. Prior to 1979, each year's subtotal of the heating plus industrial category deliveries is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares, and this estimated industrial portion is added to oil company, off-highway diesel, and all other uses; and
- Transportation sector deliveries are the sum of deliveries for railroad, vessel bunkering, on-highway diesel, and military uses for all years. Deliveries for 1981 are used as estimates for 1982.

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

— ***Nonutility Sectors, 1982 Forward.***
Each month's nonutility consumption subtotal is disaggregated into the major end-use sectors in proportion to the shares each sector held of the nonutility subtotal in the same month in 1981.

- **Jet Fuel**—Small amounts in 1975 through 1977 are used by the industrial sector, and small amounts in all periods are consumed by the electric utility sector. All remaining jet fuel is consumed by the transportation sector.

- **Kerosene**—Total product supplied monthly is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports (based primarily on data collected by Form EIA-172) as follows:
  — Residential sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981. Deliveries for 1981 are used as estimates for 1982 forward. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares;
  — Commercial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981. Deliveries for 1981 are used as estimates for 1982 forward. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares; and
  — Industrial sector deliveries are taken directly from the "Deliveries" report for 1979 through 1981. Deliveries for 1981 are used as estimates for 1982 forward. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares, and this estimated industrial (including farm) portion is added to all other uses.

- **Liquefied Petroleum Gases (LPG)**
  — 1973 through 1981: the annual shares of LPG's total consumption that are estimated to be consumed by each end-use sector are applied to each month's total LPG consumption to create monthly end-use consumption estimates. The annual end-use shares are calculated in the following manner:
    - Sales of LPG to the residential and commercial sector are converted from thousand gallons per year to thousand barrels per year and are assumed to equal the annual consumption of LPG by the sector;
    - Sixteen percent of LPG sales for internal combustion engine use is estimated to be for transportation end-use; this estimated portion is converted from thousand gallons per year to thousand barrels per year and assumed to equal the annual consumption of LPG by the transportation sector; and
    - LPG consumed annually by the industrial sector is estimated as the difference between LPG's total supplied and the estimated consumption by the sum of the residential and commercial sector and the transportation sector.

  The source of the sales data is EIA's "Sales of Liquefied Petroleum Gases and Ethane" reports, based primarily on data collected by Form EIA-174.
  — 1982 forward: The 1981 annual end-use shares are applied for succeeding periods to estimate the amount of the total LPG supplied that is consumed by each major end-use sector.

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

Notes and Sources for the Consumption Section (continued)

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

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

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

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

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

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

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

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

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

Sources for imports and exports of electricity:
- 1973 through 1980 annual: DOE, Economic Regulatory Administration, "Report on Electric Energy Exchanges with Canada and Mexico."
- 1981 annual: DOE, Office of Energy Emergency Operations, "Report on Electric Energy Exchanges with Canada and Mexico for Calendar Year 1981," April 1982 (revised June 1982).
- 1981 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.
- 1982 forward: EIA estimates.

Notes and Sources for the Consumption Section (continued)

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

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

9. **Other Energy:** "Other" is electricity produced from geothermal power and from wood and waste.
Sources: same as Note 7 above, for Nuclear.

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

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

Part 3 Petroleum

Crude Oil and Refined Petroleum Products*

Domestic crude oil production during April 1983 was estimated to be 8.6 million barrels per day, 0.4 percent below the rate in March 1983 and 0.1 percent below the rate in April 1982.

Total petroleum imports averaged 4.5 million barrels per day in April 1983, 23.8 percent more than the March 1983 rate and 4.9 percent more than the April 1982 rate.

In April 1983, 14.8 million barrels per day of petroleum products were supplied for domestic use, 4.4 percent below the level in March 1983 and 7.7 percent below the level of the previous April. Motor gasoline accounted for 44.1 percent of the total; distillate fuel oil, 18.3 percent; and residual fuel oil, 10.0 percent.

Motor gasoline supplied during April 1983 averaged 6.5 million barrels per day, 4.5 percent below the rate in March 1983 and 5.1 percent below the level of the previous April. Stocks of motor gasoline totaled 222 million barrels at the end of April 1983, 2 million barrels below the inventories reported at the end of March 1983.

In April 1983, 2.7 million barrels of distillate fuel oil were supplied per day, 6.6 percent lower than the March 1983 rate and 9.6 percent lower than the April 1982 level. Distillate fuel oil stocks were 103 million barrels at the end of April 1983, 16 million barrels lower than at the end of the previous month.

Residual fuel oil supplied in April 1983 averaged 1.5 million barrels per day, 5.6 percent lower than in March 1983 and 20.7 percent lower than the April 1982 rate. Residual fuel oil stocks measured 43 million barrels at the end of April 1983, 3 million barrels below the stock level at the end of March 1983.

*Estimates for the most current month are based on Energy Information Administration (EIA) weekly data (except crude production) and will be revised to conform with data from the EIA Petroleum Reporting System as available. For the most recent month, crude production is an EIA estimate based on historical and provisional data through January 1983. The total import data above include imports into the Strategic Petroleum Reserve.

Petroleum

Crude Oil[1] and Petroleum Products Overview

		Field Production			Stock Withdrawal[2]			Ending Stocks
		Total Domestic[3]	Crude Oil	Natural Gas Plant Production	Crude Oil[4]	Petroleum Products	Petroleum Products Supplied	Crude Oil[4] and Petroleum Products
		Thousand barrels per day						Million barrels
1973	**AVERAGE**	**10,975**	**9,208**	**1,738**	**11**	**-146**	**17,308**	**‡1,008**
1974	**AVERAGE**	**10,498**	**8,774**	**1,688**	**-62**	**-117**	**16,653**	**‡1,074**
1975	**AVERAGE**	**10,045**	**8,375**	**1,633**	**-17**	**-145**	**16,322**	**‡1,133**
1976	**AVERAGE**	**9,774**	**8,132**	**1,603**	**-39**	**96**	**17,461**	**‡1,112**
1977	**AVERAGE**	**9,913**	**8,245**	**1,618**	**-170**	**-378**	**18,431**	**‡1,312**
1978	**AVERAGE**	**10,328**	**8,707**	**1,567**	**-78**	**172**	**18,847**	**‡1,278**
1979	**AVERAGE**	**10,179**	**8,552**	**1,584**	**-148**	**-25**	**18,513**	**‡1,341**
1980	**AVERAGE**	**10,214**	**8,597**	**1,573**	**-98**	**-42**	**17,056**	**‡1,392**
1981	January	10,231	8,540	1,652	50	1,159	18,430	1,388
	February	10,294	8,604	1,653	-278	250	16,989	1,389
	March	10,272	8,613	1,624	-632	224	15,907	1,401
	April	10,195	8,557	1,599	-595	148	15,350	1,415
	May	10,160	8,501	1,593	-391	-374	15,353	1,438
	June	10,287	8,629	1,594	-135	406	16,095	1,430
	July	10,098	8,500	1,548	-360	91	15,682	1,439
	August	10,243	8,583	1,614	397	-999	15,263	1,457
	September	10,281	8,604	1,612	-285	-341	15,655	1,476
	October	10,225	8,563	1,598	-760	477	15,822	1,485
	November	10,269	8,586	1,630	-325	-233	15,593	1,501
	December	10,220	8,585	1,590	-170	745	16,596	1,484
	AVERAGE	**10,230**	**8,572**	**1,609**	**-290**	**130**	**16,058**	
1982	January	10,257	8,669	1,548	-236	1,129	15,890	1,461
	February	10,261	8,690	1,524	-216	1,268	15,941	1,431
	March	10,212	8,597	1,570	-65	1,049	15,560	1,401
	April	10,296	8,652	1,588	107	1,594	16,048	1,350
	May	10,223	8,660	1,520	49	-34	14,845	1,349
	June	10,242	8,681	1,505	86	-515	14,931	1,362
	July	10,228	8,649	1,521	-155	-865	14,771	1,394
	August	10,301	8,701	1,543	-440	4	14,838	1,407
	September	10,306	8,733	1,513	252	-489	14,921	1,415
	October	10,283	8,676	1,540	-564	-55	14,820	1,434
	November	10,377	8,690	1,634	-357	-357	15,031	1,455
	December	10,348	8,660	1,638	143	703	15,508	1,429
	AVERAGE	**10,278**	**8,671**	**1,554**	**-117**	**280**	**15,253**	
1983	January	10,356	8,634	1,668	-567	865	14,765	1,453
	February	10,298	8,660	1,585	-382	1,128	14,772	1,432
	March	10,259	8,677	1,544	R56	R1,765	R15,484	R1,375
	April†	NA	*8,644*	NA	*-593*	*190*	*14,806*	*1,375*
	AVERAGE	**NA**	**8,654**	**NA**	**-369**	**990**	**14,963**	

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Includes lease condensate.
[2]A negative number indicates an increase in stocks and a positive number indicates a decrease.
[3]Includes crude oil, natural gas plant production, other hydrocarbons, and alcohol.
[4]Includes stocks located in the Strategic Petroleum Reserve.
‡Ending stocks for 1973–1980 are totals as of December 31.
†Italics denote preliminary data. R=Revised data. NA=Not available.
Note: In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974-1,121, 1980-1,420, and 1982-1,462. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.
Sources: • See Notes and Sources on the last page of this section.

Petroleum

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

		Imports			Exports			
		Total	Crude Oil[2]	Petroleum Products	Total	Crude Oil	Petroleum Products	Net Imports[3]
		Thousand barrels per day						
1973	**AVERAGE**	**6,256**	**3,244**	**3,012**	**231**	**2**	**229**	**6,025**
1974	**AVERAGE**	**6,112**	**3,477**	**2,635**	**221**	**3**	**218**	**5,892**
1975	**AVERAGE**	**6,056**	**4,105**	**1,951**	**209**	**6**	**204**	**5,846**
1976	**AVERAGE**	**7,313**	**5,287**	**2,026**	**223**	**8**	**215**	**7,090**
1977	**AVERAGE**	**8,807**	**6,615**	**2,193**	**243**	**50**	**193**	**8,565**
1978	**AVERAGE**	**8,363**	**6,356**	**2,008**	**362**	**158**	**204**	**8,002**
1979	**AVERAGE**	**8,456**	**6,519**	**1,937**	**471**	**235**	**236**	**7,985**
1980	**AVERAGE**	**6,909**	**5,263**	**1,646**	**544**	**287**	**258**	**6,365**
1981	January	6,827	4,932	1,895	558	339	219	6,270
	February	6,772	4,873	1,899	569	198	371	6,203
	March	6,028	4,521	1,507	586	210	376	5,442
	April	5,668	4,338	1,330	570	198	372	5,098
	May	5,775	4,287	1,489	595	312	283	5,180
	June	5,435	4,061	1,375	420	123	297	5,015
	July	5,816	4,296	1,521	571	257	314	5,245
	August	5,767	4,179	1,588	644	204	440	5,123
	September	6,365	4,740	1,624	519	194	325	5,845
	October	5,959	4,380	1,579	738	226	512	5,221
	November	5,741	4,046	1,695	701	278	423	5,041
	December	5,843	4,137	1,706	656	189	467	5,187
	AVERAGE	**5,996**	**4,396**	**1,599**	**595**	**228**	**367**	**5,401**
1982	January	5,232	3,648	1,585	829	238	591	4,404
	February	4,691	2,949	1,742	804	304	499	3,887
	March	4,461	2,856	1,606	882	321	561	3,579
	April	4,286	2,813	1,474	786	174	611	3,501
	May	4,784	3,314	1,471	803	262	542	3,981
	June	5,227	3,782	1,445	703	94	609	4,524
	July	5,763	4,245	1,518	741	229	512	5,022
	August	5,156	3,820	1,336	858	304	554	4,298
	September	5,359	3,603	1,757	791	184	606	4,569
	October	5,230	3,636	1,594	932	270	662	4,298
	November	5,726	3,863	1,864	786	262	524	4,940
	December	4,562	2,956	1,606	860	193	667	3,702
	AVERAGE	**5,041**	**3,461**	**1,581**	**815**	**236**	**579**	**4,226**
1983	January	4,372	2,938	1,434	973	117	856	3,399
	February	3,691	2,268	1,423	865	262	603	2,825
	March	R3,629	R2,232	R1,398	801	174	627	2,829
	April†	*4,494*	*2,970*	*1,524*	NA	NA	NA	NA
	AVERAGE	**4,052**	**2,607**	**1,445**	**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]Includes lease condensate.
[2]Includes crude oil for storage in the Strategic Petroleum Reserve.
[3]Net Imports equals Imports minus Exports.
†Italics denote preliminary data. R=Revised data. NA=Not available.
Sources: • See Notes and Sources on the last page of this section.

Petroleum

Crude Oil[1] Supply and Disposition

		Supply							
		Field Production		Imports			Stock Withdrawal[2]		Unaccounted for Crude Oil
		Total Domestic	Alaskan	Total	SPR[3]	Other	SPR[3]	Other	
		Thousand barrels per day							
1973	**AVERAGE**	**9,208**	**198**	**3,244**		**3,244**		**11**	**3**
1974	**AVERAGE**	**8,774**	**193**	**3,477**		**3,477**		**-62**	**-25**
1975	**AVERAGE**	**8,375**	**191**	**4,105**		**4,105**		**-17**	**17**
1976	**AVERAGE**	**8,132**	**173**	**5,287**		**5,287**		**-39**	**77**
1977	**AVERAGE**	**8,245**	**464**	**6,615**	**21**	**6,594**	**-20**	**-150**	**-6**
1978	**AVERAGE**	**8,707**	**1,229**	**6,356**	**162**	**6,195**	**-163**	**84**	**-57**
1979	**AVERAGE**	**8,552**	**1,401**	**6,519**	**67**	**6,452**	**-67**	**-81**	**-11**
1980	**AVERAGE**	**8,597**	**1,617**	**5,263**	**44**	**5,219**	**-45**	**-52**	**34**
1981	January	8,540	1,606	4,932	106	4,826	-151	201	113
	February	8,604	1,619	4,873	80	4,793	-127	-150	-41
	March	8,613	1,618	4,521	140	4,382	-155	-477	154
	April	8,557	1,608	4,338	272	4,066	-444	-151	51
	May	8,501	1,580	4,287	386	3,901	-513	122	286
	June	8,629	1,632	4,061	318	3,743	-434	299	49
	July	8,500	1,605	4,296	175	4,121	-324	-36	147
	August	8,583	1,602	4,179	257	3,922	-372	769	16
	September	8,604	1,607	4,740	435	4,305	-486	201	-295
	October	8,563	1,596	4,380	453	3,927	-501	-259	166
	November	8,586	1,614	4,046	271	3,774	-259	-66	279
	December	8,585	1,623	4,137	165	3,971	-252	82	52
	AVERAGE	**8,572**	**1,609**	**4,396**	**256**	**4,141**	**-336**	**46**	**83**
1982	January	8,669	1,712	3,648	170	3,478	-159	-77	-138
	February	8,690	1,715	2,949	159	2,790	-213	-3	199
	March	8,597	1,702	2,856	185	2,671	-235	170	278
	April	8,652	1,687	2,813	190	2,623	-233	341	56
	May	8,660	1,725	3,314	204	3,110	-176	225	105
	June	8,681	1,675	3,782	105	3,678	-105	191	110
	July	8,649	1,715	4,245	97	4,147	-97	-58	1
	August	8,701	1,699	3,820	208	3,611	-208	-233	140
	September	8,733	1,707	3,603	139	3,463	-143	395	-218
	October	8,676	1,677	3,636	216	3,420	-216	-348	324
	November	8,690	1,667	3,863	180	3,683	-179	-177	-141
	December	8,660	1,663	2,956	124	2,832	-125	267	2
	AVERAGE	**8,671**	**1,695**	**3,461**	**165**	**3,296**	**-174**	**57**	**60**
1983	January	8,634	1,698	2,938	219	2,720	-219	-348	238
	February	8,660	1,725	2,268	197	2,071	-197	-185	423
	March	8,677	1,726	R2,232	R201	R2,031	R-184	R240	134
	April†	*8,644*	*1,710*	*2,970*	*204*	*2,766*	*-204*	*-389*	NA
	AVERAGE	**8,654**	**1,715**	**2,607**	**205**	**2,402**	**-201**	**-168**	**NA**

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Includes lease condensate.
[2]A negative number indicates an increase in stocks and a positive number indicates a decrease.
[3]Strategic Petroleum Reserve.
†Italics denote preliminary data. R=Revised data. NA=Not available.
Note: In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.
Sources: •See Notes and Sources on the last page of this section.

Petroleum

Crude Oil[1] Supply and Disposition (continued)

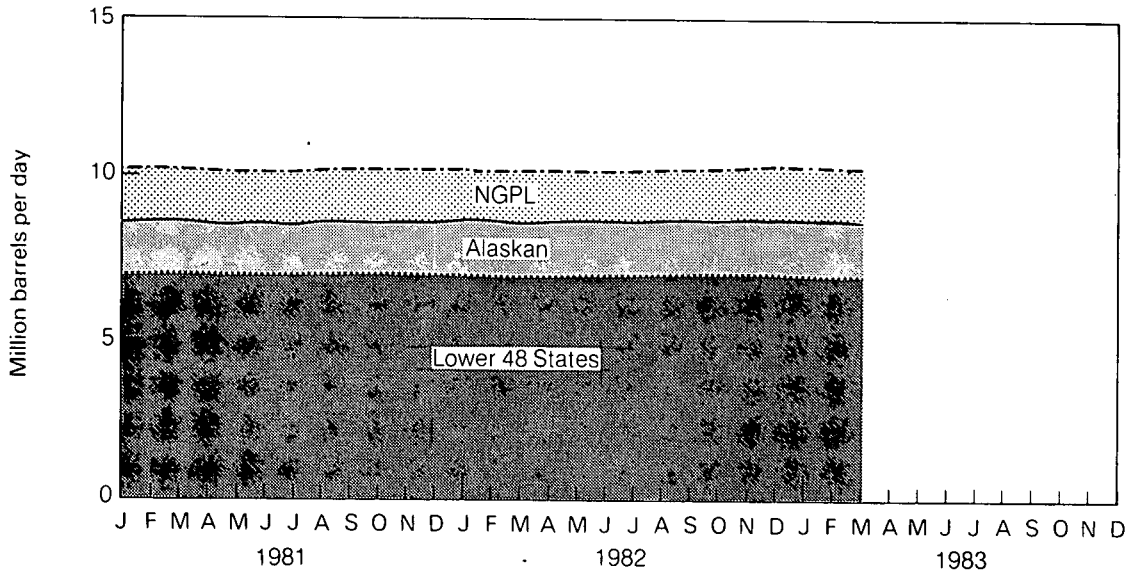
		Supply		Disposition			Ending Stocks		
		Crude Used Directly[2]	Crude Losses	Refinery Inputs	Exports	Product Supplied[2]	Total	SPR[3]	Other Primary
		Thousand barrels per day					Million barrels		
1973	**AVERAGE**	**-19**	**13**	**12,431**	**2**	**NA**	**‡242**		**‡242**
1974	**AVERAGE**	**-15**	**13**	**12,133**	**3**	**NA**	**‡265**		**‡265**
1975	**AVERAGE**	**-17**	**13**	**12,442**	**6**	**NA**	**‡271**		**‡271**
1976	**AVERAGE**	**-18**	**15**	**13,416**	**8**	**NA**	**‡285**		**‡285**
1977	**AVERAGE**	**-14**	**16**	**14,602**	**50**	**NA**	**‡348**	**‡7**	**‡340**
1978	**AVERAGE**	**-14**	**16**	**14,739**	**158**	**NA**	**‡376**	**‡67**	**‡309**
1979	**AVERAGE**	**-13**	**16**	**14,648**	**235**	**NA**	**‡430**	**‡91**	**‡339**
1980	**AVERAGE**	**-13**	**15**	**13,481**	**287**	**NA**	**466**	**108**	**358**
1981	January	-43	6	13,247	339	NA	486	112	374
	February	-55	3	12,902	198	NA	494	116	378
	March	-57	6	12,383	210	NA	514	121	393
	April	-59	3	12,091	198	NA	532	134	397
	May	-59	3	12,309	312	NA	544	150	394
	June	-58	7	12,415	123	NA	548	163	385
	July	-58	7	12,261	257	NA	559	173	386
	August	-58	5	12,908	204	NA	547	185	362
	September	-61	4	12,505	194	NA	555	199	356
	October	-63	3	12,057	226	NA	579	215	364
	November	-64	4	12,240	278	NA	589	223	366
	December	-63	4	12,349	189	NA	594	230	363
	AVERAGE	**-58**	**5**	**12,470**	**228**	**NA**			
1982	January	-63	3	11,638	238	NA	606	235	371
	February	-64	2	11,252	304	NA	612	241	371
	March	-63	5	11,277	321	NA	614	249	366
	April	-65	3	11,386	174	NA	611	256	355
	May	-62	3	11,801	262	NA	609	261	348
	June	-60	7	12,498	94	NA	607	264	343
	July	-60	3	12,447	229	NA	612	267	345
	August	-57	2	11,858	304	NA	625	274	352
	September	-56	3	12,126	184	NA	618	278	340
	October	-51	2	11,750	270	NA	635	285	351
	November	-51	1	11,741	262	NA	646	290	356
	December	-53	1	11,514	193	NA	642	294	348
	AVERAGE	**-58**	**4**	**11,776**	**236**	**NA**			
1983	January	NA	2	11,070	117	54	661	301	361
	February	NA	3	10,635	262	69	672	306	366
	March	NA	2	R10,854	174	70	R670	312	R359
	April†	NA	NA	*11,568*	NA	NA	*683*	*318*	*365*
	AVERAGE	**NA**	**NA**	**11,037**	**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]Includes lease condensate.
[2]Beginning in January 1983, crude oil used directly as fuel is presented as product supplied for crude oil. Prior to January 1983, crude oil used directly was included with crude oil losses in this table and with product supplied for distillate and residual fuel oils on those tables.
[3]Strategic Petroleum Reserve.
‡Ending stocks for 1973-1980 are totals as of December 31.
†Italics denote preliminary data. R=Revised data. NA=Not available.
Note: In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974-265, 1980-483 (Total) and 375 (Other Primary), and 1982-644 (Total) and 350 (Other Primary).
Sources: • See Notes and Sources on the last page of this section.

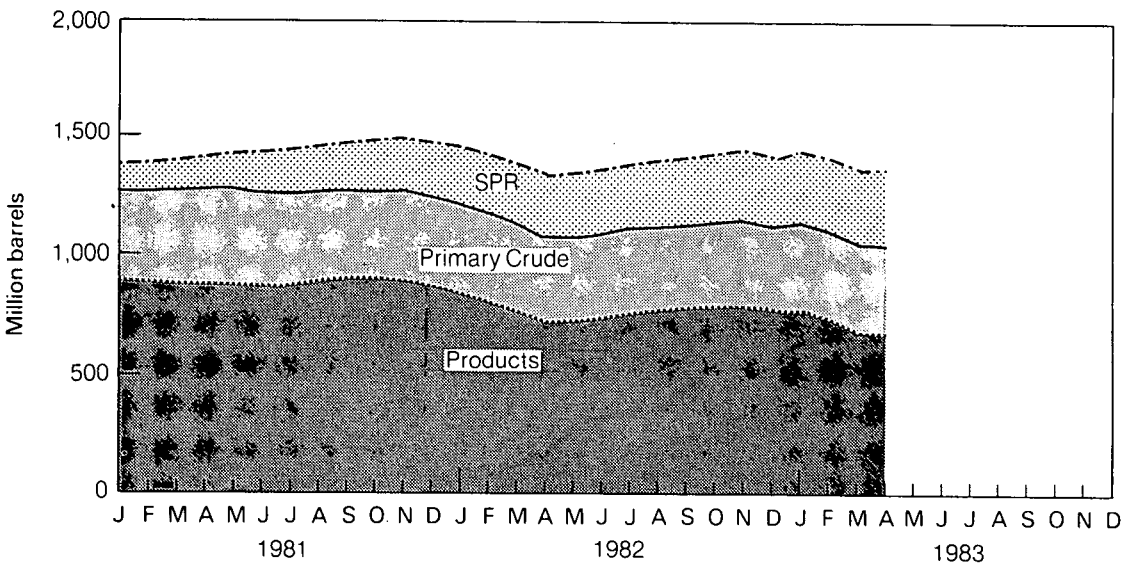
Petroleum

Overview

Production of Crude Oil and Natural Gas Plant Liquids



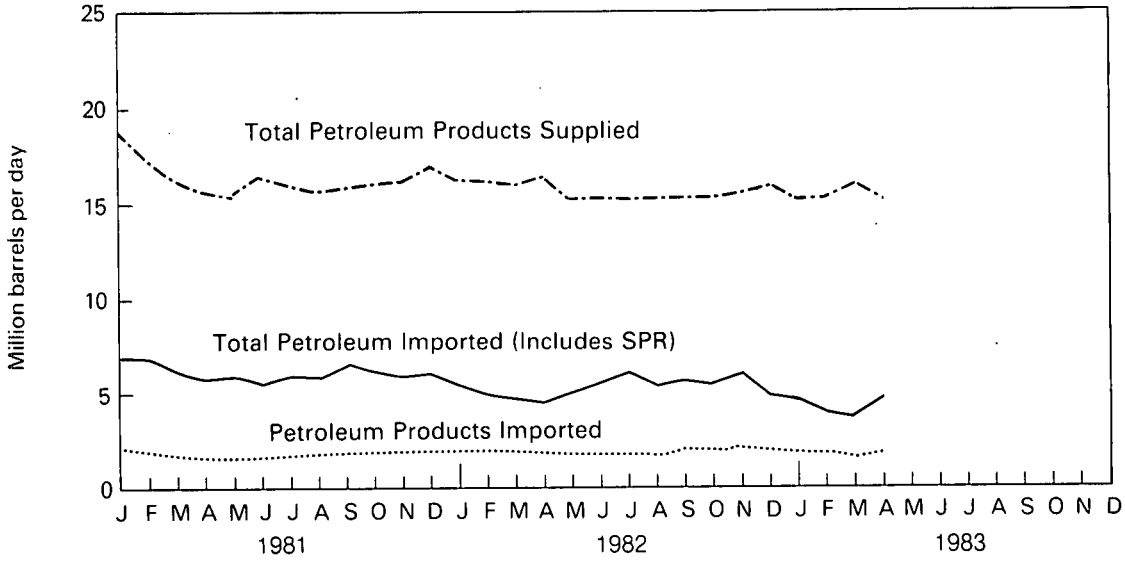
Stocks



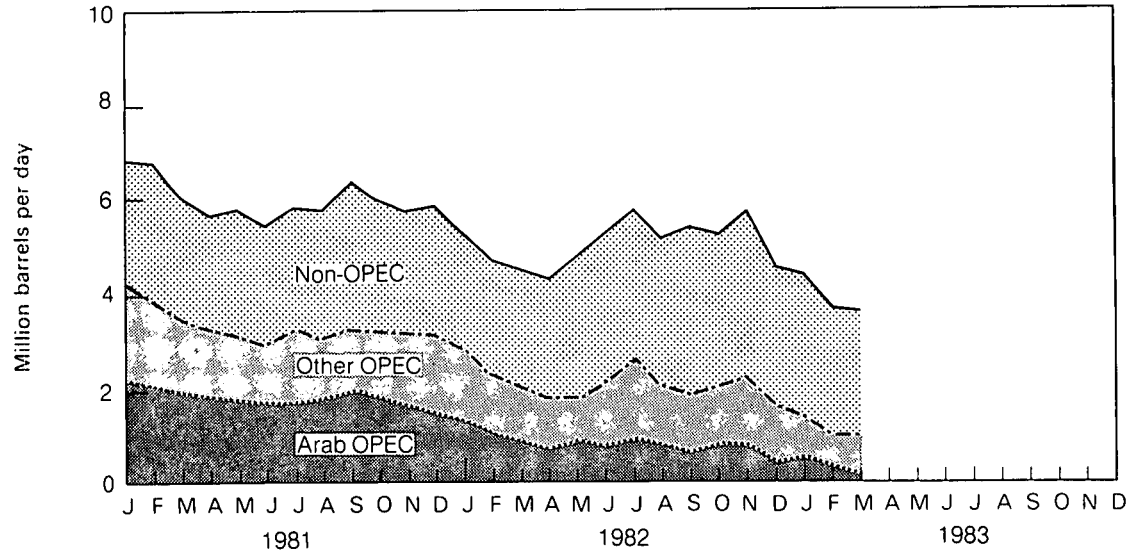
Petroleum

Overview

Products Supplied and Imports



Petroleum Imports by Source



Petroleum

Crude Oil and Petroleum Product Imports from OPEC Sources[1]

		Algeria	Libya	Saudi Arabia	United Arab Emirates	Indonesia	Iran	Nigeria	Venezuela	Other OPEC[2]	Total OPEC	Total Arab OPEC[3]
						Thousand barrels per day						
1973	**AVERAGE**	**136**	**164**	**486**	**71**	**213**	**223**	**459**	**1,135**	**106**	**2,993**	**915**
1974	**AVERAGE**	**190**	**4**	**461**	**74**	**300**	**469**	**713**	**979**	**88**	**3,280**	**752**
1975	**AVERAGE**	**282**	**232**	**715**	**117**	**390**	**280**	**762**	**702**	**122**	**3,601**	**1,383**
1976	**AVERAGE**	**432**	**453**	**1,230**	**254**	**539**	**298**	**1,025**	**700**	**134**	**5,066**	**2,424**
1977	**AVERAGE**	**559**	**723**	**1,380**	**335**	**541**	**535**	**1,143**	**690**	**287**	**6,193**	**3,185**
1978	**AVERAGE**	**649**	**654**	**1,144**	**385**	**573**	**555**	**919**	**645**	**226**	**5,751**	**2,963**
1979	**AVERAGE**	**636**	**658**	**1,356**	**281**	**420**	**304**	**1,080**	**690**	**212**	**5,637**	**3,056**
1980	**AVERAGE**	**488**	**554**	**1,261**	**172**	**348**	**9**	**857**	**481**	**130**	**4,300**	**2,551**
1981	January	341	500	1,284	93	424	0	908	549	27	4,127	2,219
	February	381	468	1,122	93	406	0	866	463	92	3,891	2,064
	March	352	485	1,027	47	328	0	771	360	54	3,425	1,912
	April	263	485	1,034	68	307	0	812	237	39	3,245	1,867
	May	393	443	933	17	297	0	664	331	124	3,203	1,796
	June	356	380	865	60	367	0	528	248	118	2,922	1,703
	July	333	251	1,073	80	340	0	651	466	38	3,233	1,757
	August	348	274	1,082	61	377	0	321	523	84	3,070	1,765
	September	336	154	1,477	96	371	0	323	359	149	3,264	2,063
	October	242	147	1,342	90	427	0	412	389	172	3,220	1,820
	November	210	132	1,270	112	353	0	517	535	56	3,184	1,724
	December	176	122	1,045	158	400	0	684	411	132	3,129	1,502
	AVERAGE	**311**	**319**	**1,129**	**81**	**366**	**0**	**620**	**406**	**90**	**3,323**	**1,848**
1982	January	254	161	877	87	273	0	662	376	128	2,818	1,378
	February	139	92	692	79	236	0	579	347	102	2,267	1,044
	March	91	37	555	155	200	0	503	399	91	2,032	860
	April	85	0	479	122	215	0	427	411	79	1,818	707
	May	179	0	601	116	236	0	211	414	54	1,811	897
	June	93	0	593	94	215	72	537	361	110	2,075	799
	July	122	0	644	123	327	69	910	349	95	2,640	927
	August	170	0	489	133	272	27	542	288	134	2,057	807
	September	162	0	432	57	191	21	479	514	52	1,907	659
	October	249	7	494	61	227	108	291	496	96	2,029	810
	November	247	13	489	47	283	34	480	539	115	2,246	795
	December	141	0	237	12	265	88	447	399	73	1,661	407
	AVERAGE	**161**	**26**	**548**	**91**	**245**	**35**	**505**	**408**	**94**	**2,113**	**840**
1983	January	204	0	282	47	255	43	186	324	43	1,384	533
	February	104	0	214	9	217	0	92	371	28	1,035	326
	March	63	0	103	0	138	0	121	425	173	1,023	183
	AVERAGE	**124**	**0**	**199**	**19**	**203**	**15**	**134**	**373**	**83**	**1,151**	**348**

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Excludes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products that were refined from crude oil produced in OPEC countries.
[2]Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
[3]Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.
Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.
Sources: • See Notes and Sources on the last page of this section.

Petroleum

Crude Oil and Petroleum Product Imports from Non-OPEC Sources[1]

		Bahamas	Canada	Mexico	Netherlands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico[2]	Virgin Islands[2]	Other	Total
						Thousand barrels per day					
1973	**AVERAGE**	**174**	**1,325**	**16**	**585**	**255**	**15**	**99**	**329**	**465**	**3,263**
1974	**AVERAGE**	**164**	**1,070**	**8**	**511**	**251**	**8**	**90**	**391**	**340**	**2,832**
1975	**AVERAGE**	**152**	**846**	**71**	**332**	**242**	**14**	**90**	**406**	**300**	**2,454**
1976	**AVERAGE**	**118**	**599**	**87**	**275**	**274**	**31**	**88**	**422**	**353**	**2,247**
1977	**AVERAGE**	**171**	**517**	**179**	**211**	**289**	**126**	**105**	**466**	**550**	**2,614**
1978	**AVERAGE**	**160**	**467**	**318**	**229**	**253**	**180**	**94**	**429**	**484**	**2,613**
1979	**AVERAGE**	**147**	**538**	**439**	**231**	**190**	**202**	**92**	**431**	**548**	**2,819**
1980	**AVERAGE**	**78**	**455**	**533**	**225**	**176**	**176**	**88**	**388**	**491**	**2,609**
1981	January	39	543	401	198	150	233	89	494	552	2,701
	February	84	546	437	227	163	271	46	481	626	2,881
	March	74	472	488	227	93	263	45	370	571	2,603
	April	68	412	418	198	139	402	40	365	380	2,423
	May	122	365	522	213	105	368	58	344	474	2,573
	June	51	353	538	196	124	397	67	262	525	2,513
	July	77	382	384	212	178	553	50	206	541	2,583
	August	69	378	489	255	123	592	68	184	539	2,698
	September	111	423	708	163	169	528	72	265	661	3,100
	October	63	449	669	161	121	351	60	303	562	2,739
	November	63	547	628	168	108	253	76	294	421	2,557
	December	70	501	587	148	125	280	73	367	563	2,714
	AVERAGE	**74**	**447**	**522**	**197**	**133**	**375**	**62**	**327**	**534**	**2,672**
1982	January	28	509	426	179	106	346	62	334	425	2,415
	February	50	533	489	221	120	132	38	354	487	2,424
	March	43	435	503	189	118	293	62	307	479	2,429
	April	67	357	467	180	166	247	36	266	682	2,468
	May	76	416	767	152	95	516	47	302	603	2,974
	June	32	462	797	141	129	539	58	322	673	3,153
	July	30	527	783	158	111	433	38	369	674	3,122
	August	68	435	854	145	106	520	24	320	627	3,099
	September	92	484	897	195	89	631	51	270	744	3,453
	October	45	456	682	148	109	666	52	262	783	3,202
	November	48	547	860	203	90	623	81	334	694	3,480
	December	89	561	675	174	102	438	48	336	480	2,901
	AVERAGE	**56**	**477**	**684**	**173**	**112**	**451**	**50**	**315**	**613**	**2,928**
1983	January	68	536	849	218	73	315	40	299	588	2,988
	February	92	592	722	179	81	193	50	192	554	2,655
	March	86	488	760	187	78	240	43	162	563	2,606
	AVERAGE	**82**	**537**	**779**	**195**	**77**	**251**	**44**	**219**	**569**	**2,753**

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Includes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products that were refined from crude oil produced in OPEC countries.
[2]U.S. possessions.
Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.
Sources: • See Notes and Sources on the last page of this section.

Petroleum

Finished Motor Gasoline Supply and Disposition

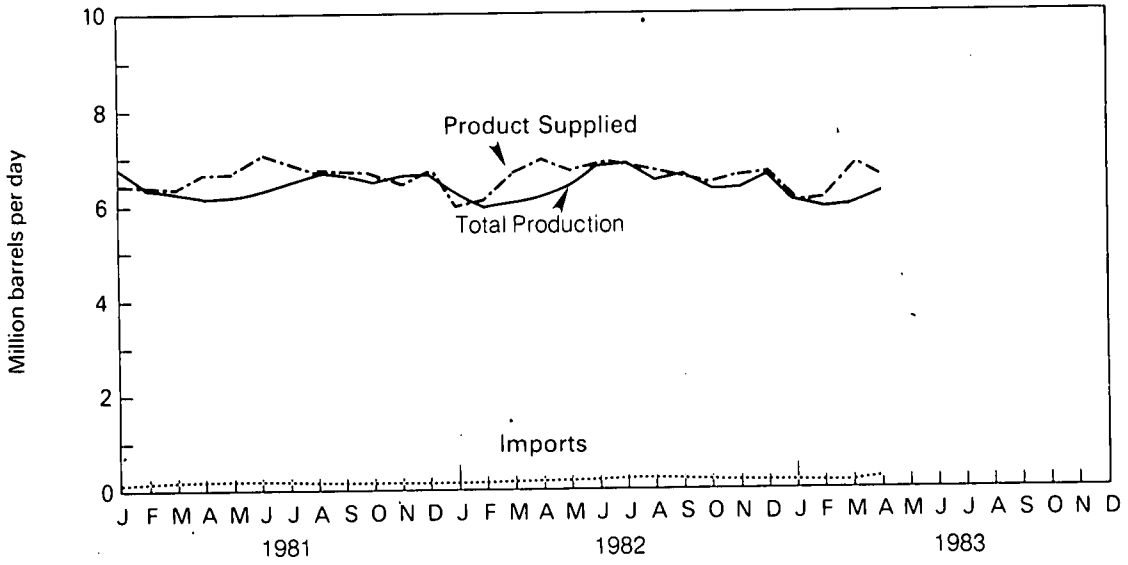
		Supply			Disposition				Ending Stocks	
						Product Supplied				
		Total Production	Imports[1]	Stock Withdrawal[1,2]	Exports	Total	Unleaded[3]	Unleaded Percent of Total	Total Motor Gasoline[4]	Finished Motor Gasoline
		Thousand barrels per day							Million barrels	
1973	**AVERAGE**	**6,535**	**134**	**9**	**4**	**6,674**			**209**	
1974	**AVERAGE**	**6,360**	**204**	**-24**	**2**	**6,537**			**218**	
1975	**AVERAGE**	**6,520**	**184**	**-28**	**2**	**6,675**			**235**	
1976	**AVERAGE**	**6,841**	**131**	**10**	**3**	**6,978**			**231**	
1977	**AVERAGE**	**7,033**	**217**	**-72**	**2**	**7,177**	**1,976**	**27.5**	**258**	
1978	**AVERAGE**	**7,169**	**190**	**54**	**1**	**7,412**	**2,521**	**34.0**	**238**	
1979	**AVERAGE**	**6,852**	**181**	**2**	**(s)**	**7,034**	**2,798**	**39.8**	**237**	
1980	**AVERAGE**	**6,506**	**140**	**-66**	**1**	**6,579**	**3,067**	**46.6**	**261**	
1981	January	6,715	138	-421	(s)	6,431	3,141	48.8	276	227
	February	6,308	111	-118	1	6,301	3,095	49.1	284	230
	March	6,213	171	-81	(s)	6,303	3,097	49.1	285	232
	April	6,114	186	303	(s)	6,602	3,284	49.7	272	223
	May	6,122	150	344	1	6,615	3,115	47.1	259	213
	June	6,220	186	622	1	7,028	3,419	48.6	242	194
	July	6,405	151	268	(s)	6,823	3,424	50.2	228	186
	August	6,611	124	-95	3	6,637	3,344	50.4	233	189
	September	6,564	169	-70	2	6,662	3,338	50.1	237	191
	October	6,426	147	7	3	6,578	3,257	49.5	236	190
	November	6,564	148	-338	1	6,373	3,198	50.2	248	201
	December	6,586	197	-91	11	6,681	3,444	51.5	253	203
	AVERAGE	**6,405**	**157**	**28**	**2**	**6,588**	**3,264**	**49.5**		
1982	January	6,181	114	-358	18	5,920	3,033	51.2	262	214
	February	5,917	133	28	8	6,070	3,145	51.8	262	213
	March	6,004	183	469	44	6,612	3,396	51.4	248	199
	April	6,104	177	641	33	6,890	3,494	50.7	223	180
	May	6,322	163	188	23	6,650	3,415	51.3	215	174
	June	6,767	195	-136	14	6,812	3,561	52.3	220	178
	July	6,788	200	-165	24	6,799	3,574	52.6	226	183
	August	6,447	284	-60	16	6,655	3,520	52.9	226	185
	September	6,530	215	-217	22	6,507	3,385	52.0	234	191
	October	6,253	177	-25	15	6,391	3,360	52.6	234	192
	November	6,273	206	91	11	6,559	3,448	52.6	230	189
	December	6,540	178	-164	7	6,548	3,486	53.2	235	194
	AVERAGE	**6,347**	**186**	**24**	**20**	**6,537**	**3,403**	**52.1**		
1983	January	6,020	148	-186	(s)	5,981	3,352	56.0	251	208
	February	5,848	142	32	(s)	6,022	3,257	54.1	251	207
	March	R5,897	R205	R765	23	R6,843	3,620	52.9	R224	R184
	April†	*6,192*	*216*	*127*	NA	*6,536*	NA	NA	*222*	*185*
	AVERAGE	**5,991**	**178**	**189**	**NA**	**6,352**	**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]Beginning in 1981, excludes blending components.
[2]A negative number indicates an increase in stocks and a positive number indicates a decrease.
[3]Includes gasohol.
[4]Includes motor gasoline blending components. Ending stocks for 1973-1980 are totals as of December 31.
†Italics denote preliminary data. R=Revised data. NA=Not available. (s)=Less than 500 barrels per day.
Note: •Beginning in 1981, survey forms were modified. See Note 2 on the last page of this section.
•In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974-225, 1980-263, 1982-244 (Total) and 203 (Finished). Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.
Sources: • See Notes and Sources on the last page of this section.

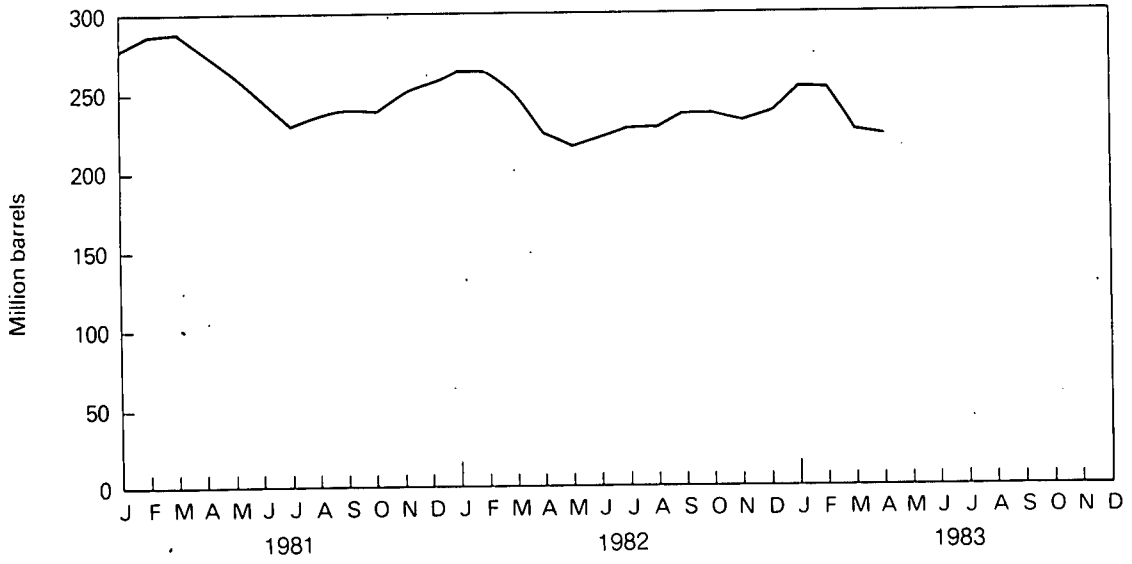
Petroleum

Motor Gasoline

Product Supplied, Total Production, and Imports



Stocks



Petroleum

Distillate Fuel Oil Supply and Disposition

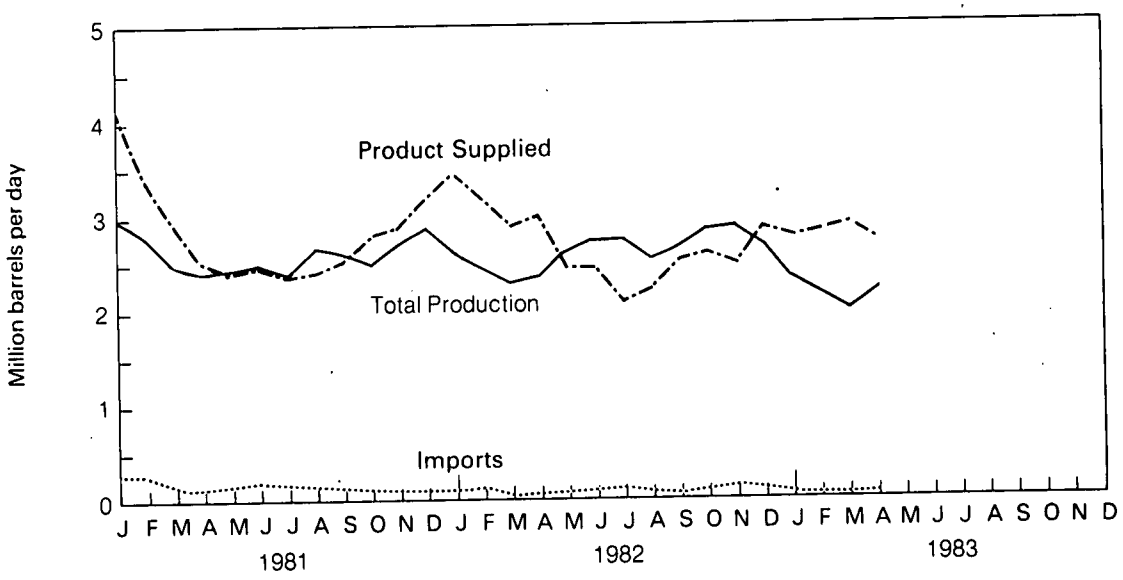
		Supply				Disposition		Ending Stocks
		Total Production	Imports	Stock Withdrawal[1]	Crude Used Directly[2]	Exports	Product Supplied[2]	
		Thousand barrels per day						Million barrels
1973	**AVERAGE**	**2,822**	**392**	**-115**	**2**	**9**	**3,092**	**‡196**
1974	**AVERAGE**	**2,669**	**289**	**-9**	**2**	**2**	**2,948**	**‡200**
1975	**AVERAGE**	**2,654**	**155**	**40**	**2**	**1**	**2,851**	**‡209**
1976	**AVERAGE**	**2,924**	**146**	**62**	**1**	**1**	**3,133**	**‡186**
1977	**AVERAGE**	**3,278**	**250**	**-176**	**1**	**1**	**3,352**	**‡250**
1978	**AVERAGE**	**3,167**	**173**	**93**	**1**	**3**	**3,432**	**‡216**
1979	**AVERAGE**	**3,153**	**193**	**-34**	**1**	**3**	**3,311**	**‡229**
1980	**AVERAGE**	**2,662**	**142**	**64**	**1**	**3**	**2,866**	**‡205**
1981	January	2,989	273	836	11	(s)	4,109	179
	February	2,809	325	246	11	17	3,373	173
	March	2,484	147	264	9	(s)	2,904	164
	April	2,418	116	-9	10	3	2,532	165
	May	2,454	179	-232	10	(s)	2,411	172
	June	2,501	225	-270	9	(s)	2,464	180
	July	2,395	179	-204	10	2	2,378	186
	August	2,656	174	-450	8	(s)	2,388	200
	September	2,610	129	-235	10	1	2,513	207
	October	2,485	119	197	9	5	2,803	201
	November	2,716	124	36	11	6	2,880	200
	December	2,856	95	277	11	26	3,212	192
	AVERAGE	**2,613**	**173**	**38**	**10**	**5**	**2,829**	
1982	January	2,615	96	780	10	90	3,410	166
	February	2,447	130	689	11	90	3,187	147
	March	2,294	48	612	10	84	2,881	128
	April	2,357	59	631	13	64	2,996	109
	May	2,618	74	-184	10	75	2,444	114
	June	2,731	100	-335	10	55	2,450	125
	July	2,734	124	-761	11	24	2,084	148
	August	2,526	79	-346	10	40	2,228	159
	September	2,658	59	-77	12	139	2,514	161
	October	2,837	97	-290	8	66	2,586	170
	November	2,863	141	-514	8	24	2,475	186
	December	2,655	109	226	10	143	2,856	179
	AVERAGE	**2,612**	**93**	**32**	**10**	**74**	**2,672**	
1983	January	2,314	58	561	NA	173	2,760	168
	February	2,136	58	742	NA	105	2,832	147
	March	R1,991	R42	R926	NA	59	2,900	R119
	April†	*2,218*	*68*	*575*	NA	NA	*2,708*	*103*
	AVERAGE	**2,165**	**56**	**701**	**NA**	**NA**	**2,800**	

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]A negative number indicates an increase in stocks and a positive number indicates a decrease.
[2]Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly.
‡Ending stocks for 1973–1980 are totals as of December 31.
†Italics denote preliminary data. R=Revised data. NA=Not available. (s)=Less than 500 barrels per day.
Note: •Beginning in 1981, survey forms were modified. See Note 3 on the last page of this section.
•In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974-224, 1980-205, and 1982-186. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.
Sources: • See Notes and Sources on the last page of this section.

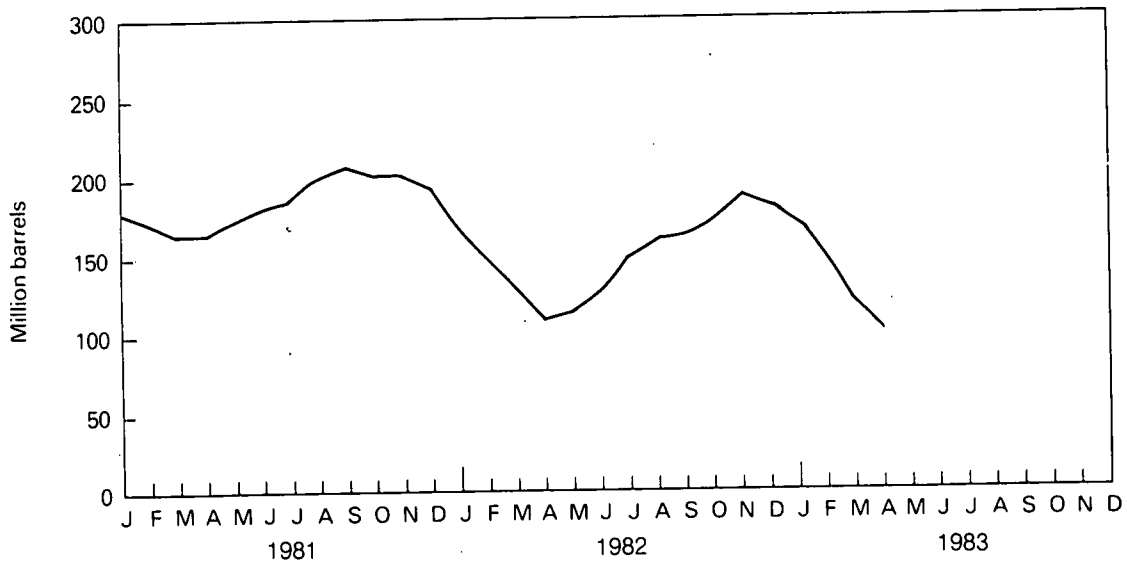
Petroleum

Distillate Fuel Oil

Product Supplied, Total Production, and Imports



Stocks



Petroleum

Residual Fuel Oil Supply and Disposition

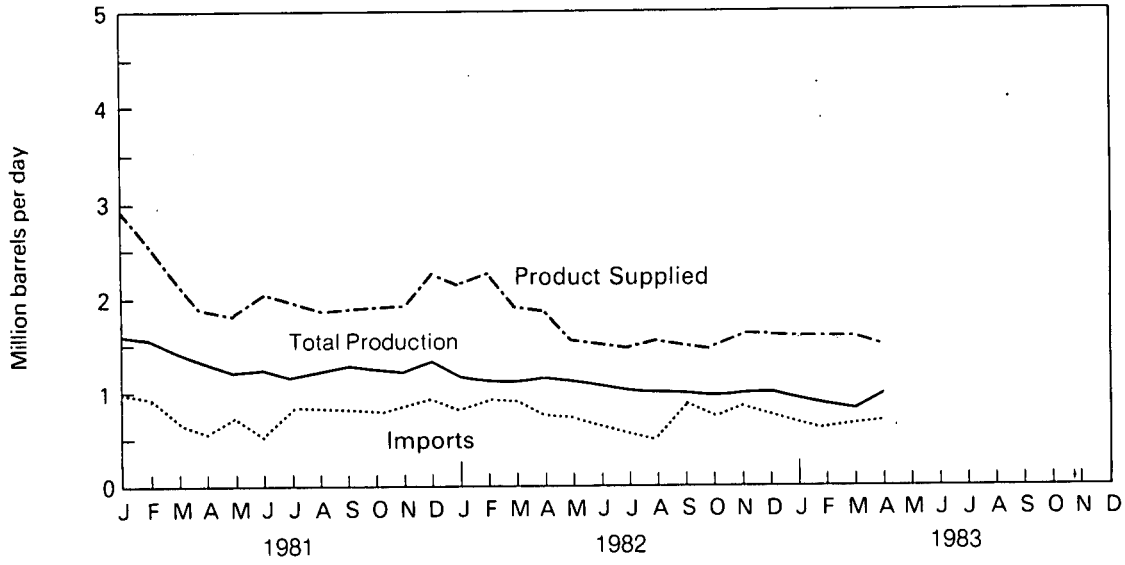
		Supply				Disposition		Ending Stocks
		Total Production	Imports	Stock Withdrawal[1]	Crude Used Directly[2]	Exports	Product Supplied[2]	
		Thousand barrels per day						Million barrels
1973	**AVERAGE**	**971**	**1,853**	**5**	**17**	**23**	**2,822**	**‡53**
1974	**AVERAGE**	**1,070**	**1,587**	**-17**	**13**	**14**	**2,639**	**‡60**
1975	**AVERAGE**	**1,235**	**1,223**	**2**	**15**	**15**	**2,462**	**‡74**
1976	**AVERAGE**	**1,377**	**1,413**	**5**	**17**	**12**	**2,801**	**‡72**
1977	**AVERAGE**	**1,754**	**1,359**	**-48**	**13**	**6**	**3,071**	**‡90**
1978	**AVERAGE**	**1,667**	**1,355**	**-1**	**13**	**13**	**3,023**	**‡90**
1979	**AVERAGE**	**1,687**	**1,151**	**-15**	**12**	**9**	**2,826**	**‡96**
1980	**AVERAGE**	**1,580**	**939**	**10**	**12**	**33**	**2,508**	**‡92**
1981	January	1,612	1,015	302	32	65	2,896	82
	February	1,565	954	150	44	125	2,588	78
	March	1,424	699	100	48	145	2,126	75
	April	1,320	584	66	49	151	1,868	73
	May	1,223	741	-170	49	25	1,817	78
	June	1,232	540	291	49	76	2,037	69
	July	1,174	830	2	48	82	1,971	69
	August	1,231	819	-179	50	69	1,852	75
	September	1,292	841	-176	51	126	1,882	80
	October	1,238	786	8	54	202	1,884	80
	November	1,227	880	-49	53	203	1,909	81
	December	1,329	916	110	52	157	2,250	78
	AVERAGE	**1,321**	**800**	**37**	**48**	**118**	**2,088**	
1982	January	1,183	821	328	53	235	2,150	68
	February	1,136	928	358	53	213	2,261	58
	March	1,121	910	26	53	197	1,912	57
	April	1,162	762	124	52	234	1,867	54
	May	1,127	738	-175	52	191	1,551	59
	June	1,077	643	-49	50	217	1,504	61
	July	1,029	576	51	49	239	1,466	59
	August	1,007	519	200	47	235	1,538	53
	September	1,007	871	-302	44	148	1,472	62
	October	954	758	-56	43	234	1,466	64
	November	989	843	-95	43	182	1,597	66
	December	990	747	8	43	186	1,602	66
	AVERAGE	**1,065**	**758**	**33**	**48**	**209**	**1,695**	
1983	January	935	691	243	NA	294	1,574	61
	February	857	632	270	NA	191	1,568	53
	March	R833	R686	R220	NA	169	R1,569	R46
	April†	*1,004*	*714*	*26*	NA	NA	*1,481*	*43*
	AVERAGE	**908**	**682**	**189**	**NA**	**NA**	**1,548**	

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]A negative number indicates an increase in stocks and a positive number indicates a decrease.
[2]Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly.
‡Ending stocks for 1973-1980 are totals as of December 31.
†Italics denote preliminary data. R=Revised data. NA=Not available.
Note: •Beginning in 1981, survey forms were modified. See Note 3 on the last page of this section.
•In January 1975, 1981, and 1983 significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974-75, 1980-91, and 1982-68. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.
Sources: • See Notes and Sources on the last page of this section.

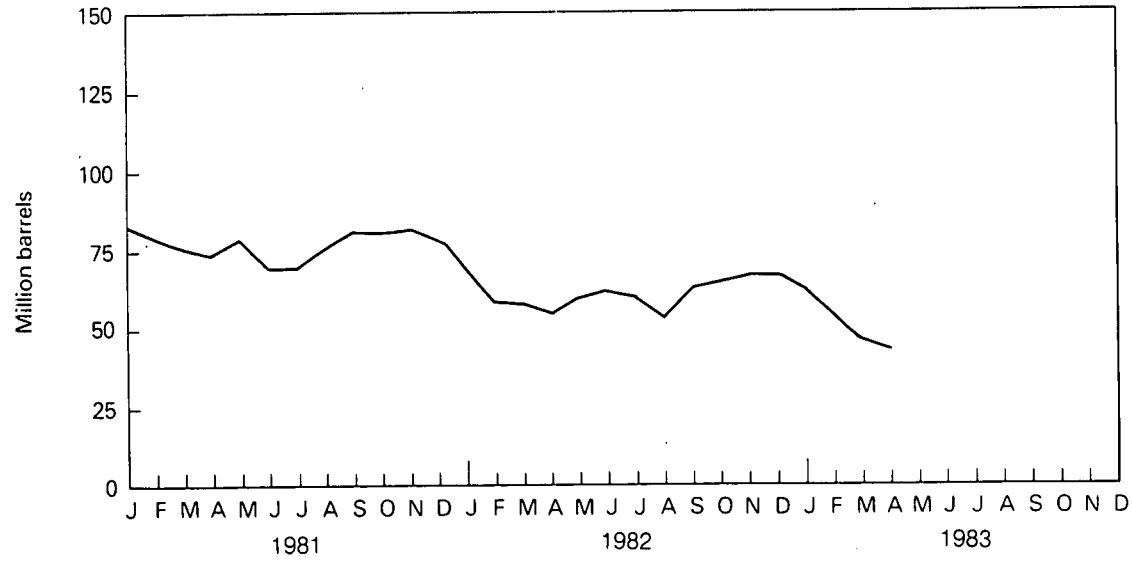
Petroleum

Residual Fuel Oil

Product Supplied, Total Production, and Imports



Stocks



Petroleum

Liquefied Petroleum Gases Supply and Disposition

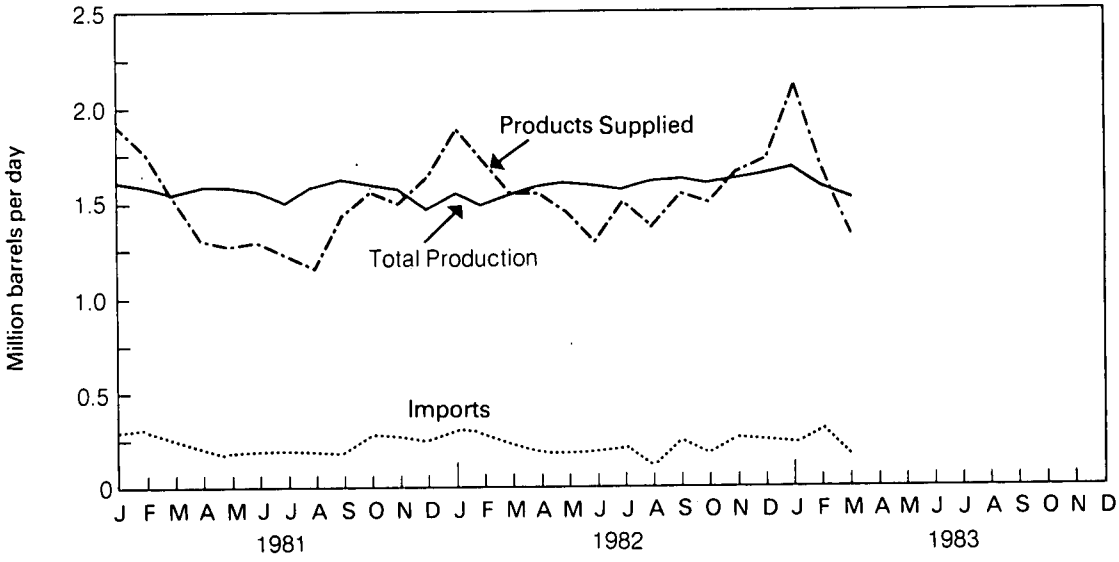
		Supply			Disposition			Ending Stocks
		Total Production	Imports	Stock Withdrawal[1]	Refinery Inputs	Exports	Product Supplied	
		Thousand barrels per day						Million barrels
1973	**AVERAGE**	**1,600**	**132**	**-35**	**220**	**27**	**1,449**	**‡99**
1974	**AVERAGE**	**1,565**	**123**	**-38**	**220**	**25**	**1,406**	**‡113**
1975	**AVERAGE**	**1,527**	**112**	**-35**	**246**	**26**	**1,333**	**‡125**
1976	**AVERAGE**	**1,535**	**130**	**24**	**260**	**25**	**1,404**	**‡116**
1977	**AVERAGE**	**1,566**	**161**	**-55**	**233**	**18**	**1,422**	**‡136**
1978	**AVERAGE**	**1,537**	**123**	**12**	**239**	**20**	**1,413**	**‡132**
1979	**AVERAGE**	**1,556**	**217**	**70**	**236**	**15**	**1,592**	**‡111**
1980	**AVERAGE**	**1,535**	**216**	**-27**	**233**	**21**	**1,469**	**‡120**
1981	January	1,617	306	363	352	21	1,913	117
	February	1,593	327	173	303	21	1,769	112
	March	1,551	260	-4	257	20	1,530	112
	April	1,586	214	-236	231	26	1,308	119
	May	1,587	189	-258	220	19	1,279	127
	June	1,567	206	-208	237	24	1,304	133
	July	1,507	213	-258	215	17	1,229	141
	August	1,592	195	-242	235	149	1,160	149
	September	1,622	199	-75	287	21	1,438	151
	October	1,593	287	72	320	76	1,556	149
	November	1,571	280	86	383	58	1,495	146
	December	1,468	255	379	428	50	1,624	135
	AVERAGE	**1,571**	**244**	**-18**	**289**	**42**	**1,466**	
1982	January	1,546	314	480	398	67	1,873	122
	February	1,476	291	310	327	51	1,699	114
	March	1,523	223	145	289	74	1,528	109
	April	1,566	188	107	257	77	1,527	106
	May	1,583	186	-61	235	43	1,431	108
	June	1,571	192	-109	262	106	1,286	111
	July	1,556	227	-5	253	37	1,487	111
	August	1,591	125	-44	254	61	1,357	112
	September	1,606	247	33	273	85	1,528	111
	October	1,582	194	92	306	81	1,481	109
	November	1,603	267	172	370	37	1,634	103
	December	1,626	258	270	395	56	1,702	95
	AVERAGE	**1,570**	**225**	**115**	**301**	**65**	**1,544**	
1983	January	1,662	240	618	313	118	2,088	84
	February	1,560	305	84	237	76	1,636	81
	March	1,517	166	-51	189	127	1,316	83
	AVERAGE	**1,580**	**235**	**221**	**247**	**108**	**1,681**	

Geographic coverage: the 50 United States and the District of Columbia.
Totals may.not equal sum of components due to independent rounding.
[1]A negative number indicates an increase in stocks and a positive number indicates a decrease.
‡Ending stocks for 1973-1980 are totals as of December 31.
Note: In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974-113, 1980-128, and 1982-103. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.
Sources: • See Notes and Sources on the last page of this section.

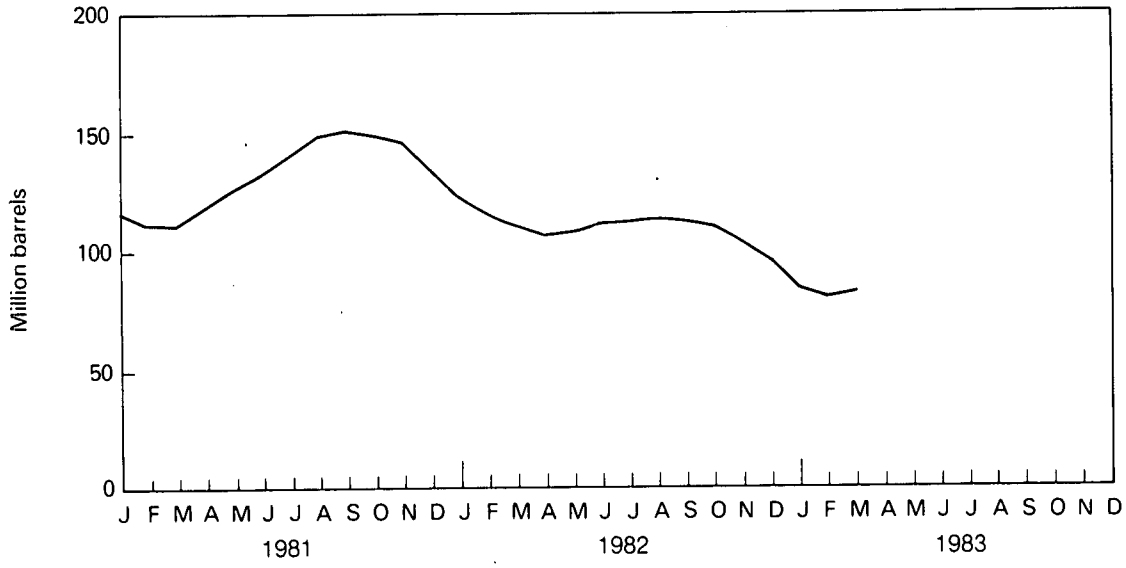
Petroleum

Liquefied Petroleum Gases

Product Supplied, Total Production, and Imports



Stocks



Petroleum

Other Petroleum Products[1] Supply and Disposition

		Supply			Disposition			Ending Stocks
		Total Production	Imports	Stock Withdrawal[2]	Refinery Inputs	Exports	Product Supplied	
		Thousand barrels per day						Million barrels
1973	**AVERAGE**	**3,693**	**502**	**-9**	**750**	**166**	**3,270**	**‡208**
1974	**AVERAGE**	**3,558**	**432**	**-28**	**665**	**174**	**3,123**	**‡218**
1975	**AVERAGE**	**3,424**	**277**	**-2**	**537**	**160**	**3,002**	**‡219**
1976	**AVERAGE**	**3,643**	**206**	**-5**	**524**	**175**	**3,145**	**‡220**
1977	**AVERAGE**	**3,912**	**205**	**-27**	**514**	**165**	**3,410**	**‡230**
1978	**AVERAGE**	**4,046**	**166**	**14**	**492**	**167**	**3,568**	**‡225**
1979	**AVERAGE**	**4,153**	**195**	**-37**	**352**	**209**	**3,749**	**‡238**
1980	**AVERAGE**	**3,956**	**210**	**-23**	**311**	**198**	**3,634**	**‡247**
1981	January	3,821	162	80	851	132	3,081	296
	February	3,723	182	-200	538	208	2,958	302
	March	3,722	230	-55	642	210	3,043	304
	April	3,711	230	24	733	192	3,040	303
	May	3,892	229	-58	594	238	3,231	305
	June	3,925	218	-29	656	197	3,261	306
	July	3,852	149	284	791	212	3,282	297
	August	3,876	276	-33	676	219	3,225	298
	September	3,718	286	215	883	176	3,159	291
	October	3,503	241	193	710	227	3,000	285
	November	3,579	262	33	784	154	2,935	284
	December	3,543	243	71	805	223	2,829	282
	AVERAGE	**3,739**	**226**	**46**	**723**	**199**	**3,088**	
1982	January	3,181	240	-102	602	180	2,536	284
	February	3,364	260	-116	646	138	2,724	287
	March	3,485	241	-204	734	161	2,627	294
	April	3,394	287	91	801	204	2,767	291
	May	3,296	309	198	823	210	2,769	285
	June	3,481	315	115	815	216	2,879	281
	July	3,578	391	15	862	187	2,935	281
	August	3,519	329	256	841	202	3,060	273
	September	3,442	365	74	767	213	2,901	271
	October	3,472	367	223	901	266	2,896	264
	November	3,464	406	-12	824	269	2,766	264
	December	3,285	314	363	886	275	2,801	253
	AVERAGE	**3,413**	**319**	**77**	**793**	**211**	**2,805**	
1983	January	3,222	297	-371	570	271	2,307	271
	February	3,270	287	-1	680	232	2,645	271
	March	3,400	298	-94	570	249	2,786	273
	AVERAGE	**3,298**	**294**	**-160**	**604**	**251**	**2,577**	

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Includes natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, liquefied petroleum gases, and ethane.
[2]A negative number indicates an increase in stocks and a positive number indicates a decrease.
‡Ending stocks for 1973–1980 are totals as of December 31.
Note: In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end-of-year stocks would be: 1974-220, 1980-249, and 1982-259. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.
Sources: • See Notes and Sources on the last page of this section.

Notes and Sources for the Petroleum Section

Notes

1. During 1981 the listing (frame) of operators of all facilities required to complete each monthly survey was updated. The refinery frame was found to be complete and accurate, although the frames for bulk terminals, pipelines, and crude oil stocks facilities were found to be outdated. A variety of sources (published directories, listings, and exploratory surveys) were researched for potential new respondents. As a result of this research, a significant number of respondents were added to the frames. The increase in the respondents for the frames affects the stocks of crude oil and petroleum products. For further details see the Energy Information Administration (EIA), *Petroleum Supply Monthly.*
2. Research conducted by the EIA in the latter half of 1980 indicated changes had taken place in the petroleum industry that were not being adequately reflected in the EIA survey forms. First, the flows of unfinished oils and the redesignation of finished products were not being accurately described on the EIA survey forms. Second, a substantial amount of motor gasoline was being produced at non-refinery "downstream blending stations" but was not being reported. Although empirical information is not available to precisely measure the historical effects, estimates of the magnitude of the differences in the major series affected are shown in the EIA, *Petroleum Supply Monthly.* Beginning in January 1981, the EIA modified its survey forms, changed definitions of gasoline (motor and aviation), and added the non-refinery blenders previously not reported.
3. **Motor Gasoline:** Beginning in January 1981, the EIA expanded its universe to include non-refinery blenders; redefined motor gasoline into two categories (finished leaded and finished unleaded); and separated blending components from finished motor gasoline as a reporting category. Also, survey forms were modified to describe refinery operations more accurately. For further details, see the EIA *Petroleum Supply Monthly.*
4. **Distillate and Residual Fuel Oils:** The requirement to report crude oil burned on leases and pipelines as either distillate or residual fuel oil has been eliminated. Prior to January 1981, the refinery input of unfinished oils number typically exceeded the number for available supply of unfinished oils. This was assumed to be due to the redesignation of distillate and residual fuel oils received as such, but used as an unfinished oil input by the receiving refinery. This imbalance between supply and disposition of unfinished oils would then be subtracted from the production of distillate and residual fuel oils. Two-thirds of this difference was subtracted from distillate and one-third from residual. Beginning in January 1981, the EIA modified its survey forms to account for redesignated product and discontinued the above-mentioned adjustment. For further details, see the EIA *Petroleum Supply Monthly.*

Sources

- 1973 through 1976: Bureau of Mines, *Mineral Industry Surveys,* "Petroleum Statement, Annual" (except unleaded gasoline) and "PAD Districts Supply/Demand, Annual."
- Unleaded gasoline—1977 through 1980: Energy Information Administration (EIA), *Monthly Petroleum Statistics Report.*
- 1977 through 1981: EIA, *Energy Data Reports,* "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual."
- January 1982 through March 1983: EIA, *Petroleum Supply Monthly.*
- Data for the most recent month are estimates based on EIA weekly data (except domestic production).
- Domestic production for the most recent month is an EIA estimate based on historical data from State Conservation Agencies and the U.S. Geological Survey.
- Sources for the *Energy Data Reports,* the *Petroleum Supply Monthly,* and the *Monthly Petroleum Statistics Report* are: EIA Forms EIA-64 (Natural Gas Liquids Operations Report), EIA-87 (Refinery Report), EIA-88 (Bulk Terminals Report), EIA-89 (Pipeline Report), and EIA-90 (Crude Oil Stock Report); Economic Regulatory Administration (ERA) Forms ERA-60 (Imports) and FEA P133 (Imports from Puerto Rico); Bureau of the Census IM 145 (Imports), EM 522 (Exports), and EM 594 (Exports); U.S. Geological Survey (Crude Production); and State conservation agencies (Crude Production).

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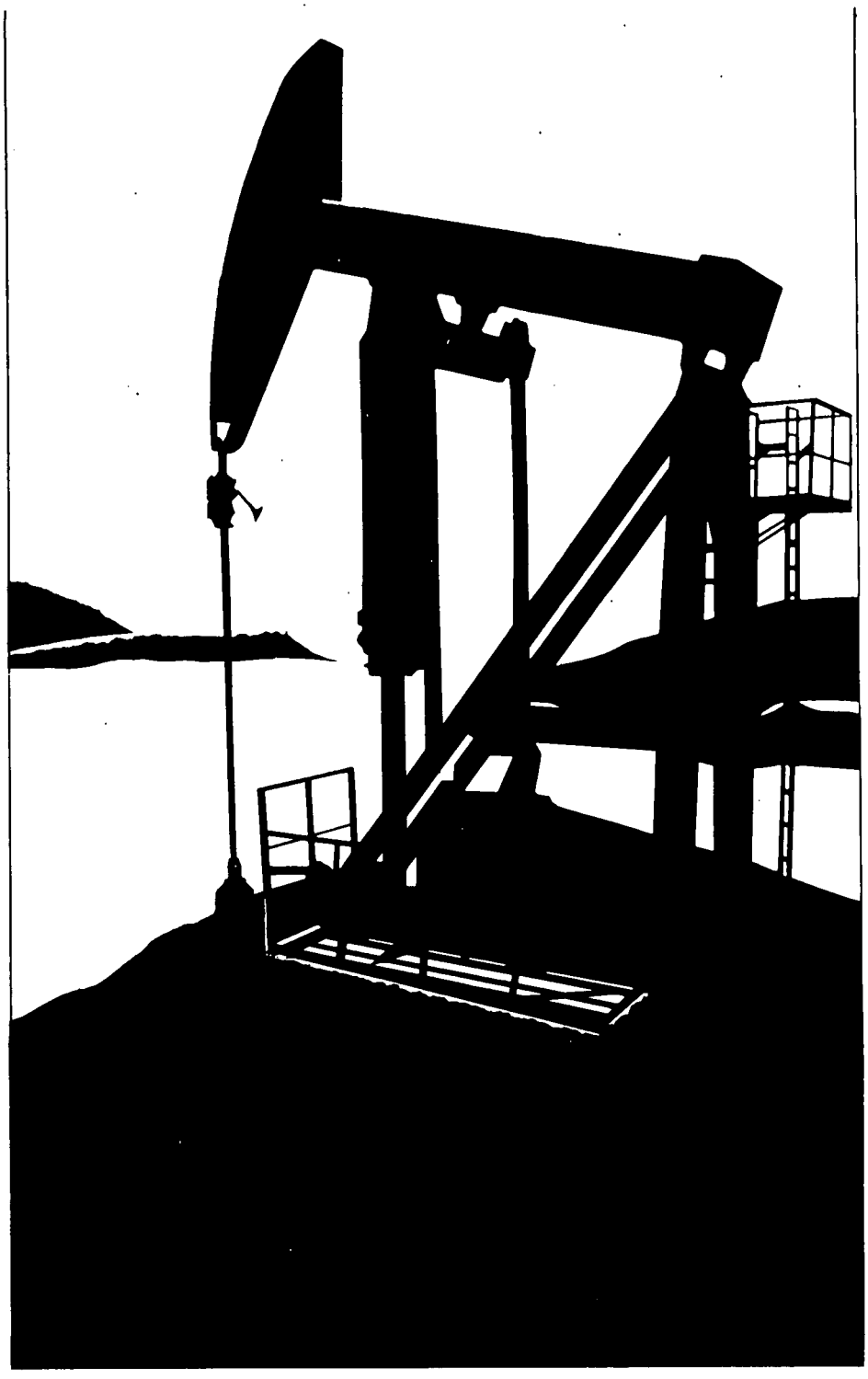
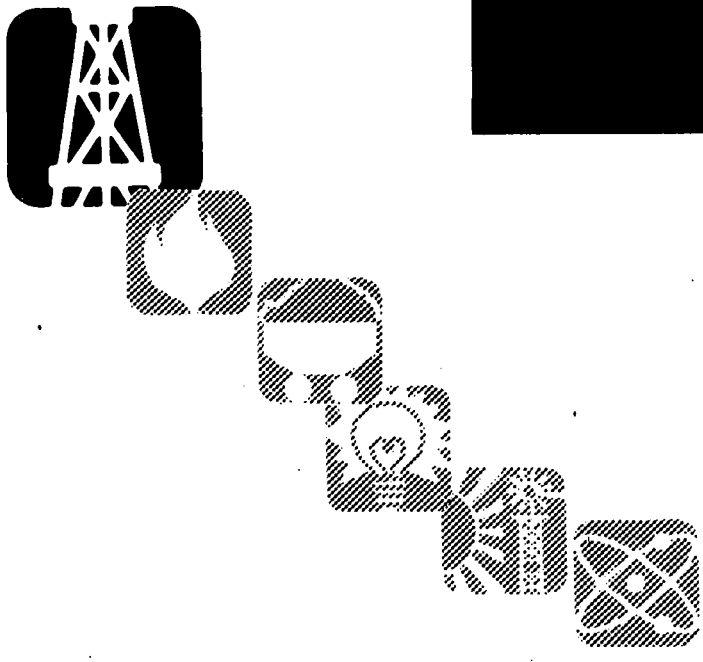




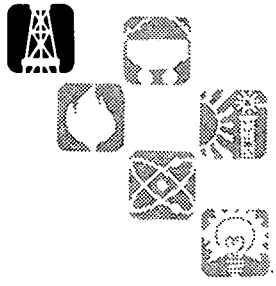
Wednesday, August 24, 1983
8 A.M. - 3:30 P.M.
KEY BRIDGE MARRIOTT HOTEL
Arlington, Virginia

Energy Information Administration

Symposium on Petroleum Supply Information

Wednesday, August 24, 1983
8 a.m. - 3:30 p.m.
KEY BRIDGE MARRIOTT HOTEL
Arlington, Virginia

Keynote Address
"Energy Issues Facing the U.S.: A Policy Perspective"
Danny J. Boggs, Special Assistant to the President for Energy, Natural Resources, Environment and Agriculture



Opening Remarks
J. Erich Evered, Administrator
Energy Information Administration

"Petroleum Supply Division Activities: Present and Future"
Frank E. Lalley, Director
Petroleum Supply Division
Energy Information Administration

Morning Sessions

Session 1

10:20-11:50 a.m.

World Economic Changes and U.S. Oil Supply — Room A
Chairman: Jimmie L. Petersen, Director, Office of Oil and Gas, EIA

- "Trends in Refinery Capacity and Utilization (Results of 1983 EIA Refinery Survey)."
  Elizabeth Campbell, Economist, Petroleum Supply Division, EIA
- "World Oil Price and Inventory Cycles."
  Dr. John L. Moore, Deputy Area Manager, Applied Management Sciences
- "Minimum Operating Inventories for Gasoline, Distillate Fuel Oil and Residual Fuel Oil."
  Richard D. Farmer, Economist, Petroleum Supply Division, EIA

Session 2

10:20-11:50 a.m.

Availability of EIA Petroleum Supply Information: Surveys, Systems and Publications — Room B
Chairman: Dr. Barry M. Yaffe, Chief, Data Analysis and Support Branch, EIA

- "EIA Petroleum Supply Surveys: An Overview."
  Ronald W. O'Neill, Publications Branch, Petroleum Supply Division, EIA
- "Systems Improvements: The Integrated Petroleum Supply Data Base."
  Robert Lesko, Vice President, Technology and Information Systems, Applied Management Sciences
- "New Data and Information Services."
  John Daniels, Director, National Energy Information Center, EIA

Afternoon Sessions

Session 3

1:30-3:30 p.m.

Current Petroleum Supply Situation and Outlook Room A
Chairman: Dr. Wray Smith, Director,
Office of Energy Markets and End Use, EIA

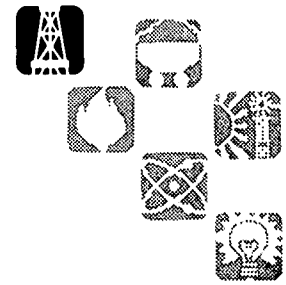
- "The Current Petroleum Situation: Expectations for Fall and Winter 1983/84."
  Albert H. Linden, Jr.,
  Deputy Administrator, EIA
- "Outlook for World Crude Oil Prices."
  Calvin W. Kilgore, Acting Director,
  Short-Term Information, EIA
- "The Outlook for Transportation Fuels."
  Dr. David Green, Group Leader,
  Transportation Energy Group,
  Oak Ridge National Laboratory
- "Intermediate Term Petroleum Projections."
  Dr. John Pearson, Director,
  Longer-Term Information, EIA

Session 4

1:30-3:30 p.m.

Petroleum Supply Data: Scope and Quality Room B
Chairman: Dr. Yvonne M. Bishop, Director,
Office of Statistical Standards, EIA

- "Accuracy of Petroleum Supply Data."
  Dr. Nancy Kirkendall, Statistician,
  Petroleum Supply Division, EIA
- "Advances in Quality Control in PSD Data."
  Dr. Lawrence A. Thibodeau,
  Deputy Area Manager,
  Applied Management Sciences
- "Liquefied Petroleum Gas Reporting."
  Gary Oleson, Statistician,
  Petroleum Supply Division, EIA
- "Statistical Design of the Weekly Petroleum Status Report."
  Dr. Eugene Burns and Yahia Ahmed, Statisticians,
  Petroleum Supply Division, EIA



There is no charge for attendance. However, because of space limitations, reservations are required and requests will be honored on an "as received" basis.

(Cut along dotted line)

I want to attend the symposium on Petroleum Supply Information on August 24, 1983.

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I prefer to participate in morning session 1 ☐ or session 2 ☐ (check one)
afternoon session 3 ☐ or session 4 ☐ (check one)

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Part 4 Natural Gas

Natural Gas

Total dry natural gas production, including nonhydrocarbon gases, in the United States during April 1983 was an estimated 1.4 trillion cubic feet (Tcf). This was 9.6 percent lower than in April 1982. Output during the first 4 months of 1983 totaled 5.6 Tcf, 10.6 percent less than during the period January through April 1982.

Consumption of natural and supplemental gas in April 1983 was an estimated 1.5 Tcf, 1.1 percent higher than in April 1982. Estimated consumption during the period January through April 1983 totaled 6.9 Tcf, 10.1 percent lower than during the comparable 1982 period.

Imports of natural gas in April 1983 were an estimated 76 billion cubic feet (Bcf), 1.3 percent lower than in the previous April. During the first 4 months of 1983, imports of natural gas totaled an estimated 389 Bcf, 6.6 percent higher than during the comparable 1982 period. Receipts of foreign gas during April 1983 included Algerian liquefied natural gas (LNG) equivalent to approximately 14 Bcf.

Domestic producer sales to major interstate pipelines in March 1983 (latest data available) totaled 738 Bcf, 18.8 percent lower than during the previous March. Total sales during the first quarter of 1983 were 2.3 Tcf, 17.9 percent less than during the comparable 1982 period.

Stocks of working gas* in underground natural gas storage reservoirs at the end of April 1983 totaled 2.1 Tcf. This was 23.3 percent above stocks available a year earlier. Net withdrawals from storage during April 1983 were 85 Bcf. During the previous April, storage injections exceeded withdrawals by 73 Bcf.

*Gas available for withdrawal.

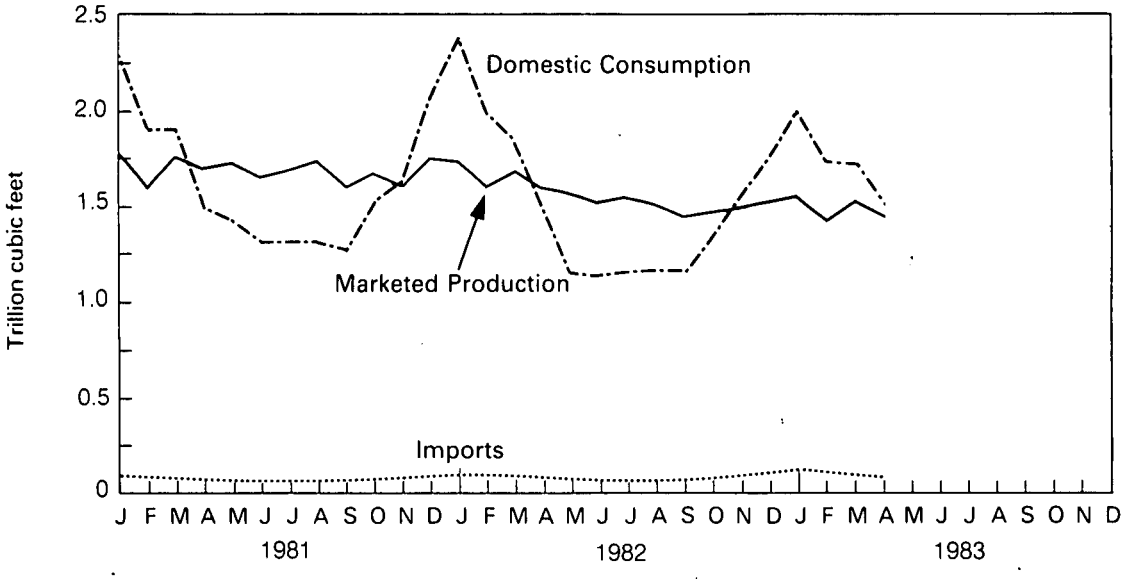
Natural Gas

		Production							
		Total Marketed[1]	Total Dry[2]	Nonhydrocarbon Gases Removed	Supplemental Gaseous Fuels	Total Domestic Consumption[3]	Imports	Exports	Domestic Producer Sales to Major Interstate Pipelines
		Billion cubic feet							
1973	**TOTAL**	**22,648**	**21,731**	**NA**	**NA**	**22,049**	**1,033**	**77**	**12,067**
1974	**TOTAL**	**21,601**	**20,713**	**NA**	**NA**	**21,223**	**959**	**77**	**11,462**
1975	**TOTAL**	**20,109**	**19,236**	**NA**	**NA**	**19,538**	**953**	**73**	**10,652**
1976	**TOTAL**	**19,952**	**19,098**	**NA**	**NA**	**19,946**	**964**	**65**	**10,140**
1977	**TOTAL**	**20,025**	**19,163**	**NA**	**NA**	**19,521**	**1,011**	**56**	**9,883**
1978	**TOTAL**	**19,974**	**19,122**	**NA**	**NA**	**19,627**	**966**	**53**	**9,911**
1979	**TOTAL**	**20,471**	**19,663**	**NA**	**NA**	**20,241**	**1,253**	**56**	**10,496**
1980	**TOTAL**	**20,379**	**19,602**	**195**	**155**	**19,877**	**985**	**49**	**10,578**
1981	January	1,772	1,704	20	20	2,279	91	5	962
	February	1,591	1,530	17	17	1,894	85	5	869
	March	1,753	1,686	18	17	1,900	80	5	942
	April	1,692	1,627	17	14	1,489	69	5	900
	May	1,716	1,650	18	13	1,426	62	4	909
	June	1,653	1,590	19	12	1,309	65	5	877
	July	1,683	1,618	20	12	1,315	66	5	889
	August	1,724	1,658	18	12	1,314	64	5	864
	September	1,595	1,534	18	12	1,266	67	6	869
	October	1,660	1,596	17	14	1,518	79	5	889
	November	1,600	1,539	17	15	1,619	82	5	904
	December	1,738	1,671	19	19	2,077	93	5	1,055
	TOTAL	**20,178**	**19,403**	**217**	**176**	**19,404**	**904**	**59**	**10,929**
1982	January	1,725	1,659	18	21	2,366	104	6	969
	February	1,583	1,522	18	18	1,967	94	5	901
	March	1,670	1,606	18	16	1,823	90	5	909
	April	1,575	1,515	17	13	1,472	77	4	853
	May	1,547	1,488	16	11	1,139	69	4	889
	June	1,500	1,442	15	10	1,121	67	4	814
	July	1,520	1,462	15	11	1,143	67	5	787
	August	1,488	1,431	17	11	1,153	64	4	793
	September	1,426	1,371	15	11	1,141	67	5	753
	October	1,453	1,397	15	12	1,299	76	5	765
	November	1,468	1,412	17	14	1,535	88	4	801
	December	1,506	1,448	18	15	1,714	109	4	834
	TOTAL	**18,462**	**17,753**	**199**	**163**	**17,873**	**972**	**55**	**10,068**
1983	January	R1,523	R1,465	18	R18	R1,962	120	5	R782
	February	1,402	1,348	R16	15	R1,708	102	5	762
	March	*1,506*	*1,448*	16	15	R1,697	R91	5	738
	April	*1,425*	*1,370*	16	13	1,488	76	4	NA

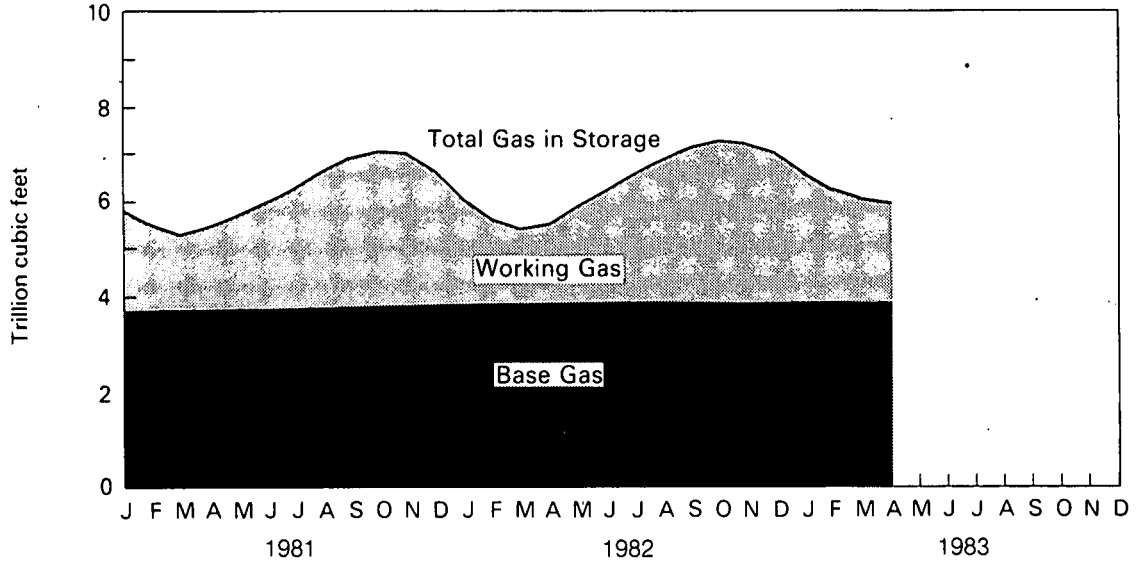
Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Includes nonhydrocarbon gases removed such as carbon dioxide, hydrogen sulfide, helium, and nitrogen. See Note 1 on the last page of this section.
[2]Total net dry marketed production is the volume of total marketed production, including nonhydrocarbon gases, remaining after the extraction of natural gas plant liquids, such as ethane, propane, butanes, etc. See Note 1 on the last page of this section.
[3]Includes supplemental gaseous fuels such as synthetic natural gas, propane-air, and refinery (still) gas normally mixed with natural gas prior to consumption. See Note 1 on the last page of this section.
R=Revised data. NA=Not available.
Note: Estimated data are in italics and are likely to be revised.
Sources: • See the last page of this section.

Natural Gas

Domestic Consumption, Marketed Production, and Imports



Gas in Storage



Natural Gas

Natural Gas in Underground Storage[1]

		Total Gas In Storage	Base Gas	Working Gas	Storage Injections	Storage Withdrawals	Net Storage Injections[2]
				Billion cubic feet			
1973	**TOTAL**	**‡4,898**	**‡2,864**	**‡2,034**	**NA**	**NA**	**NA**
1974	**TOTAL**	**‡4,962**	**‡2,912**	**‡2,050**	**NA**	**NA**	**NA**
1975	**TOTAL**	**‡5,374**	**‡3,162**	**‡2,212**	**NA**	**NA**	**NA**
1976	**TOTAL**	**‡5,250**	**‡3,323**	**‡1,926**	**1,960**	**2,114**	**(154)**
1977	**TOTAL**	**‡5,866**	**‡3,391**	**‡2,475**	**2,401**	**1,773**	**628**
1978	**TOTAL**	**‡6,020**	**‡3,473**	**‡2,547**	**2,338**	**2,186**	**151**
1979	**TOTAL**	**‡6,306**	**‡3,553**	**‡2,753**	**2,370**	**2,044**	**327**
1980	**TOTAL**	**‡6,297**	**‡3,642**	**‡2,655**	**1,898**	**1,911**	**(13)**
1981	January	5,795	3,642	2,152	37	558	(521)
	February	5,472	3,648	1,824	59	376	(317)
	March	5,285	3,654	1,631	55	234	(179)
	April	5,434	3,670	1,764	208	55	153
	May	5,660	3,684	1,977	255	26	228
	June	5,933	3,681	2,252	314	27	287
	July	6,205	3,649	2,556	335	26	309
	August	6,595	3,713	2,882	361	15	346
	September	6,872	3,720	3,152	287	9	277
	October	6,974	3,726	3,247	155	50	104
	November	6,931	3,731	3,200	80	124	(44)
	December	6,568	3,752	2,815	34	387	(353)
1982	January	5,932	3,751	2,181	24	673	(648)
	February	5,536	3,750	1,786	50	446	(396)
	March	5,369	3,766	1,603	88	264	(177)
	April	5,452	3,777	1,675	180	107	73
	May	5,813	3,780	2,033	380	11	369
	June	6,146	3,777	2,368	350	11	339
	July	6,485	3,779	2,706	351	12	339
	August	6,781	3,780	3,001	328	33	295
	September	7,032	3,782	3,251	271	19	251
	October	7,147	3,785	3,362	188	59	128
	November	7,079	3,770	3,309	81	160	(80)
	December	6,877	3,805	3,072	87	289	(202)
1983	January	6,460	3,808	2,651	22	443	(420)
	February	6,165	3,813	2,352	37	336	(299)
	March	5,962	3,812	2,150	56	258	(202)
	April	5,877	3,812	2,065	79	164	(85)

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]See Note 2 on the last page of this section.
[2]Net storage injections are storage injections minus storage withdrawals. Parentheses indicate withdrawals greater than injections.
‡Total as of December 31. NA=Not available.
Sources: • See the last page of this section.

Notes and Sources for the Natural Gas Section

Notes

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

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

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

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

Sources

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

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

Domestic Producer Sales: EIA, FERC Form 11, "Natural Gas Pipeline Company Monthly Statement."

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

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

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

Part 5 Oil and Gas Resource Development

Oil and Gas Resource Development

The April 1983 rotary rig count of 1,846 was 46.6 percent lower than the April 1982 count of 3,460. The 213 rigs operating offshore were 15.2 percent fewer than those working in April 1982.

In April 1983, the reported total wells drilled were 6,414, a 14.4-percent decrease from the 7,491 reported for April 1982. Oil well completions reported during April 1983 were 3,028, a 17.6-percent decrease from the comparable 1982 figure of 3,674. Gas well completions of 1,401 were reported for April 1983, an 8.4-percent decrease from 1982's comparable figure of 1,530. The total reported footage for April 1983 of 27.5 million feet decreased 24.6 percent from the April 1982 figure of 36.4 million feet.

In April 1983, 449 crews were engaged in seismic exploration, 28.3 percent fewer than during April 1982. These 449 crews represented the first month-to-month increase in the number of crews since June 1982. The 410 land crews employed during April 1982, not including five crews idled because of inclement weather, were 28.2 percent fewer than those during April 1982. The 39 marine vessels working during April 1983 were 29.1 percent fewer than those in April 1982.

Oil and Gas Resource Development

		Rotary Rigs in Operation[1]		Exploratory and Development Wells Drilled[2]				Total Footage of Wells Drilled[2]
		Monthly average		Oil	Gas	Dry	Total	Thousand feet
1973	**AVERAGE**	**1,194**	**TOTAL**	**9,902**	**6,385**	**10,305**	**26,592**	**136,391**
1974	**AVERAGE**	**1,472**	**TOTAL**	**12,784**	**7,240**	**11,674**	**31,698**	**150,551**
1975	**AVERAGE**	**1,660**	**TOTAL**	**16,408**	**7,580**	**13,247**	**37,235**	**174,434**
1976	**AVERAGE**	**1,658**	**TOTAL**	**17,059**	**9,085**	**13,621**	**39,765**	**181,780**
1977	**AVERAGE**	**2,001**	**TOTAL**	**18,912**	**11,378**	**14,692**	**44,982**	**210,848**
1978	**AVERAGE**	**2,259**	**TOTAL**	**17,775**	**13,064**	**16,218**	**47,057**	**227,110**
1979	**AVERAGE**	**2,177**	**TOTAL**	**19,383**	**14,681**	**15,752**	**49,816**	**238,659**
1980	**AVERAGE**	**2,909**	**TOTAL**	**27,026**	**15,730**	**18,089**	**60,845**	**284,461**
1981	January	3,386		1,794	964	1,339	4,097	19,907
	February	3,502		2,459	1,046	1,610	5,115	22,726
	March	3,595		3,099	1,423	1,883	6,405	30,166
	April	3,728		2,905	1,600	1,546	6,051	27,836
	May	3,816		2,604	1,159	1,675	5,438	24,842
	June	3,926		3,497	1,320	2,105	6,922	31,689
	July	3,998		2,790	1,116	1,698	5,604	25,542
	August	4,131		3,140	1,260	1,874	6,274	28,933
	September	4,242		3,414	1,978	2,014	7,406	33,630
	October	4,352		3,772	1,879	2,099	7,750	35,520
	November	4,436		3,591	1,584	2,069	7,244	32,263
	December	4,520		4,619	2,586	3,078	10,283	48,594
	AVERAGE	**3,970**	**TOTAL**	**37,671**	**17,894**	**22,973**	**78,538**	**361,407**
1982	January	4,436		2,798	954	2,132	5,884	28,167
	February	4,160		3,036	1,430	2,234	6,700	31,985
	March	3,816		3,736	1,480	2,479	7,695	37,896
	April	3,460		R3,674	R1,530	R2,287	R7,491	R36,439
	May	3,178		3,459	1,948	2,215	7,622	37,049
	June	2,908		3,899	1,892	2,524	8,315	39,008
	July	2,746		3,286	1,705	1,929	6,920	31,202
	August	2,620		2,848	1,575	1,903	6,326	28,556
	September	2,482		3,360	1,592	2,331	7,283	32,538
	October	2,402		2,838	1,220	2,136	6,194	27,447
	November	2,500		3,282	1,662	2,020	6,964	31,141
	December	2,696		4,090	1,966	2,361	8,417	34,737
	AVERAGE	**3,105**	**TOTAL**	**40,298**	**18,953**	**26,549**	**85,800**	**396,017**
1983	January	2,622		2,381	892	1,651	4,924	20,998
	February	2,192		2,899	1,190	2,223	6,312	27,758
	March	2,003		3,462	1,606	2,644	7,712	34,360
	April	1,846		3,028	1,401	1,985	6,414	27,459

Geographic coverage: the 50 United States and the District of Columbia.
[1]These data are for operating rotary rigs reported by the Hughes Tool Company during the reporting period. Monthly figures are averages of a 4- or 5-week reporting period and are not calendar months.
[2]These data are for wells drilled reported to the American Petroleum Institute (API) during the reporting period. They exclude service wells and stratigraphic and core tests. Data reported for the first 2 months of each quarter cover 4 weeks of drilling activity, and data for the last month of the quarter cover 5 weeks of drilling activity.
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: 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	**AVERAGE**	**30**	**370**	**400**	**193,212**	**163,929**	**357,141**
1980	**AVERAGE**	**37**	**493**	**530**	**202,694**	**184,088**	**386,782**
1981	January	38	553	591			
	February	41	561	602			
	March	40	570	610			
	April	40	605	645			
	May	42	619	661			
	June	44	652	696			
	July	43	668	711			
	August	46	689	735			
	September	47	697	744			
	October	52	689	741			
	November	52	681	733			
	December	47	656	703			
	AVERAGE	**44**	**637**	**681**	**338,201**	**256,201**	**594,402**
1982	January	53	642	695			
	February	53	625	678			
	March	52	597	649			
	April	55	571	626			
	May	61	551	612			
	June	69	546	615			
	July	66	527	593			
	August	62	500	562			
	September	59	476	535			
	October	51	465	516			
	November	50	452	502			
	December	49	428	477			
	AVERAGE	**57**	**531**	**588**			
1983	January	49	407	456			
	February	47	404	451			
	March	45	402	447			
	April	39	410	449			

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

Part 6 Coal

Coal

Coal production in April 1983 was 60.3 million short tons, 17.8 percent less than the 73.4 million short tons produced in April 1982.

Electric utility coal consumption in March 1983 totaled 47.0 million short tons, 1.8 percent less than consumption in March 1982.

Electric utility coal stocks of 179.9 million short tons at the end of March 1983 were 15.4 million short tons (9.3 percent) above the level 1 year earlier.

Imports of coal in March 1983 totaled 120 thousand short tons, 108 thousand short tons more than the amount imported in March 1982. Exports of coal in March 1983 totaled 6.3 million short tons, 39.6 percent less than the amount exported during March 1982. Coal exports in March 1983 were principally to Europe (56.4 percent) and to Japan (34.4 percent).

Coal

Bituminous Coal, Lignite, and Anthracite

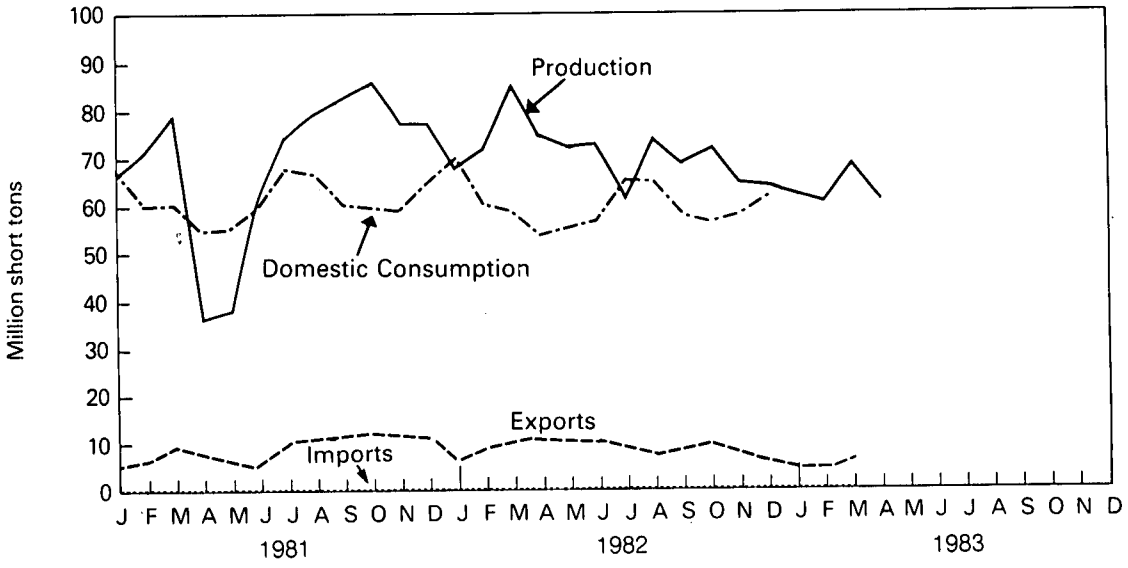
		Production	Domestic Consumption	Imports[1]	Exports[2]	Stocks[3]
			Thousand short tons			
1973	**TOTAL**	**598,568**	**562,584**	**127**	**53,587**	**104,335**
1974	**TOTAL**	**610,023**	**558,402**	**2,080**	**60,661**	**96,323**
1975	**TOTAL**	**654,641**	**562,641**	**940**	**66,309**	**128,050**
1976	**TOTAL**	**684,913**	**603,790**	**1,203**	**60,021**	**134,438**
1977	**TOTAL**	**697,205**	**625,291**	**1,647**	**54,312**	**157,098**
1978	**TOTAL**	**670,164**	**625,225**	**2,953**	**40,714**	**145,551**
1979	**TOTAL**	**781,134**	**680,524**	**2,059**	**66,042**	**181,646**
1980	**TOTAL**	**829,700**	**702,729**	**1,194**	**91,742**	**204,028**
1981	January	65,927	67,580	35	5,795	198,603
	February	70,918	59,735	104	6,771	197,962
	March	78,266	60,069	77	9,710	207,340
	April	36,253	54,649	63	8,271	187,143
	May	38,100	55,025	96	6,086	168,126
	June	61,555	59,685	138	6,158	158,274
	July	74,076	67,394	13	10,762	154,423
	August	78,782	65,896	150	11,315	157,141
	September	81,720	59,722	69	11,900	164,970
	October	85,241	59,161	94	12,360	175,384
	November	76,577	58,695	76	11,849	183,044
	December	76,360	65,017	127	11,564	185,274
	TOTAL	**823,775**	**732,627**	**1,043**	**112,541**	
1982	January†	66,796	68,718	71	6,177	173,931
	February†	70,725	59,751	30	8,964	173,193
	March†	83,391	58,243	12	10,423	179,171
	April†	73,429	53,267	10	10,831	186,458
	May†	70,985	54,839	109	10,110	192,926
	June†	71,550	55,944	9	10,680	198,376
	July†	60,181	63,859	69	9,182	189,997
	August†	72,461	63,560	131	7,385	190,310
	September†	67,543	56,765	71	8,683	189,967
	October†	70,446	55,032	66	9,972	195,107
	November†	63,381	56,833	87	7,807	196,700
	December†	62,521	60,221	76	6,064	195,254
	TOTAL	**833,409**	**707,032**	**742**	**106,277**	
1983	January†	60,896	NA	78	4,471	NA
	February†	59,282	NA	71	4,382	NA
	March†	67,250	NA	120	6,291	NA
	April†	60,336	NA	NA	NA	NA

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

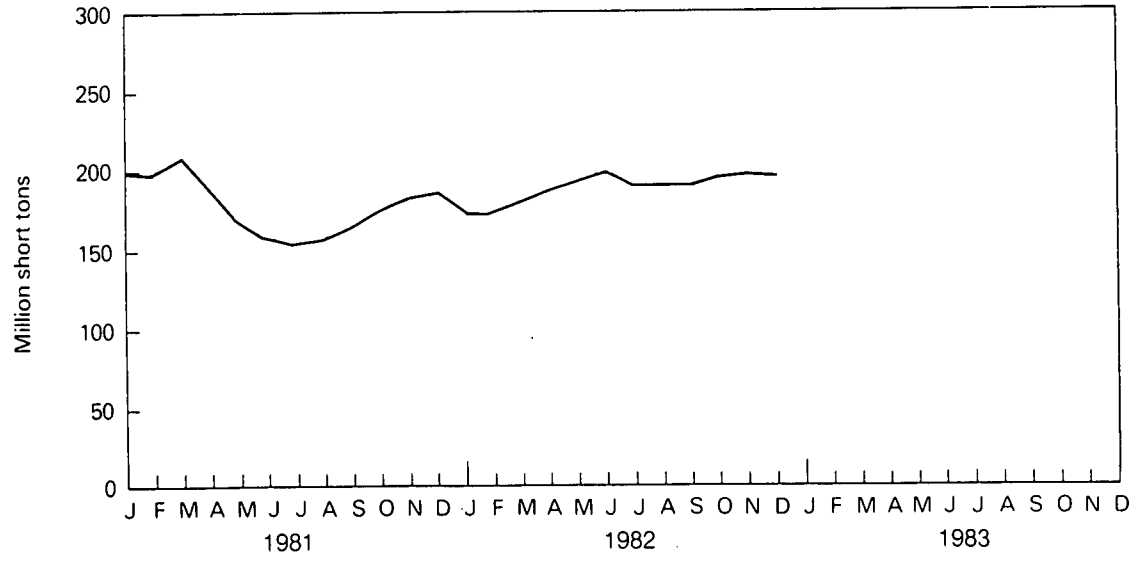
Coal

Bituminous Coal, Lignite, and Anthracite

Production, Consumption, Imports, and Exports



Stocks



Coal

Consumption—Bituminous Coal, Lignite, and Anthracite

			Industrial			
		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	**TOTAL**	**527,051**	**77,368**	**67,717**	**8,388**	**680,524**
1980	**TOTAL**	**569,274**	**66,657**	**60,347**	**6,451**	**702,729**
1981	January	54,688	5,465	6,532	895	67,580
	February	47,914	5,177	5,932	712	59,735
	March	48,398	5,532	5,665	474	60,069
	April	43,677	4,862	5,548	562	54,649
	May	44,999	4,259	5,297	470	55,025
	June	50,080	4,460	4,845	300	59,685
	July	56,144	5,449	5,371	430	67,394
	August	54,483	5,434	5,520	459	65,896
	September	48,483	5,340	5,312	587	59,722
	October	47,800	5,158	5,577	626	59,161
	November	47,014	5,037	5,793	851	58,695
	December	53,116	4,842	6,003	1,056	65,017
	TOTAL	**596,797**	**61,014**	**67,395**	**7,421**	**732,627**
1982	January†	56,825	4,444	6,474	975	68,718
	February†	48,878	4,340	5,858	675	59,751
	March†	47,884	4,173	5,641	545	58,243
	April†	43,490	3,708	5,382	687	53,267
	May†	45,622	3,622	5,143	452	54,839
	June†	47,424	3,481	4,691	348	55,944
	July†	55,248	3,121	4,862	628	63,859
	August†	54,838	3,058	4,994	670	63,560
	September†	48,414	2,924	4,790	637	57,765
	October†	46,330	2,757	5,285	660	55,032
	November†	47,799	2,693	5,496	845	56,833
	December†	50,914	2,587	5,702	1,018	60,221
	TOTAL	**593,666**	**40,908**	**64,318**	**8,140**	**707,032**
1983	January†	53,351	NA	NA	NA	NA
	February†	45,772	NA	NA	NA	NA
	March†	47,039	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]Bituminous coal and anthracite only. Lignite is not used at coke plants.
[2]See Note on the last page of this section.
†Preliminary data. NA=Not available.
Sources: • See 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		**159,714**	**10,155**	**11,777**	**181,646**
1980		**183,010**	**9,067**	**11,951**	**204,028**
1981	January	176,975	9,634	11,994	198,603
	February	175,715	10,211	12,036	197,962
	March	183,983	10,788	12,569	207,340
	April	169,221	6,952	10,970	187,143
	May	153,415	4,850	9,861	168,126
	June	144,520	4,500	9,254	158,274
	July	140,124	5,074	9,225	154,423
	August	142,318	5,648	9,175	157,141
	September	149,526	6,163	9,281	164,970
	October	159,676	6,308	9,400	175,384
	November	167,002	6,392	9,650	183,044
	December	168,893	6,475	9,906	185,274
1982	January†	158,469	6,207	9,255	173,931
	February†	158,136	5,909	9,148	173,193
	March†	164,518	5,612	9,041	179,171
	April†	171,390	5,931	9,137	186,458
	May†	177,461	6,231	9,234	192,926
	June†	182,513	6,532	9,330	198,376
	July†	174,503	6,166	9,328	189,997
	August†	175,194	5,800	9,316	190,310
	September†	175,225	5,434	9,308	189,967
	October†	180,571	5,171	9,365	195,107
	November†	182,368	4,908	9,424	196,700
	December†	181,132	4,642	9,479	195,254
1983	January†	177,832	NA	NA	NA
	February†	178,310	NA	NA	NA
	March†	179,883	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]Stocks held by electric 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 that are consumed by the residential and commercial sector.
†Preliminary data. NA=Not available.
Sources: • See the last page of this section.

Notes and Sources for the Coal Section

Note

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

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

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

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

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

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

where S_b = beginning stocks
R = receipts
S_e = ending stocks.

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

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

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

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

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

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

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

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

Sources

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

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

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

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

Part 7 Electric Utilities

Electric Utilities

March 1983 production of electricity by utilities was 182.5 billion kilowatt-hours, 2.8 percent lower than the March 1982 production level. Coal-fired production totaled 95.6 billion kilowatt-hours, 2.1 percent lower than the March 1982 level. Hydroelectric production totaled 30.3 billion kilowatt-hours, 1.4 percent above the March 1982 level. Nuclear production was 23.9 billion kilowatt-hours in March 1983, 5.0 percent above the March 1982 level. Natural gas-fired production was 19.7 billion kilowatt-hours, 16.6 percent below the level 1 year earlier. Petroleum-fired production totaled 12.6 billion kilowatt-hours, 7.0 percent below the March 1982 level.

Sales of electricity to all ultimate consumers in the United States in March 1983 were 167.8 billion kilowatt-hours, 3.5 percent below March 1982 sales. Sales to residential consumers during March 1983 were 59.0 billion kilowatt-hours, 2.4 percent below the level of sales for the same month in 1982. Commercial sales were 41.6 billion kilowatt-hours, 0.1 percent less than the amount sold to commercial consumers in March 1982.

Sales to industrial consumers totaled 60.3 billion kilowatt-hours in March 1983, 6.5 percent less than the 1982 figure. In March 1983, other sales totaled 6.9 billion kilowatt-hours, 4.4 percent below the March 1982 level.

Electric utility petroleum consumption (excluding petroleum coke) during March 1983 was 21.1 million barrels, a 7.8-percent drop from the March 1982 level. Coal consumption for March 1983 was 47.0 million short tons, 1.8 percent below the March 1982 rate. During March 1983, consumption of natural gas by electric utilities was 208.0 billion cubic feet, 15.6 percent below the March 1982 consumption level.

On March 31, 1983, utility stocks of anthracite, bituminous coal, and lignite totaled 179.9 million short tons. Stockpiles were 9.3 percent above the level of March 1982. Petroleum stocks (excluding petroleum coke) on March 31, 1983, totaled 104.8 million barrels, 14.7 percent below the level on the same date in 1982.

Electric Utilities

Net Electricity Generation by Primary Energy Source

		Coal[1]	Petroleum[2]	Natural Gas	Nuclear	Hydro	Other[3]	Total
				Million kilowatt-hours				
1973	**TOTAL**	**847,651**	**314,343**	**340,858**	**83,479**	**272,083**	**2,294**	**1,860,710**
1974	**TOTAL**	**828,433**	**300,931**	**320,065**	**113,976**	**301,032**	**2,703**	**1,867,140**
1975	**TOTAL**	**852,786**	**289,095**	**299,778**	**172,505**	**300,047**	**3,437**	**1,917,649**
1976	**TOTAL**	**944,391**	**319,988**	**294,624**	**191,104**	**283,707**	**3,883**	**2,037,696**
1977	**TOTAL**	**985,219**	**358,179**	**305,505**	**250,883**	**220,475**	**4,063**	**2,124,323**
1978	**TOTAL**	**975,742**	**365,060**	**305,391**	**276,403**	**280,419**	**3,315**	**2,206,331**
1979	**TOTAL**	**1,075,037**	**303,525**	**329,485**	**255,155**	**279,783**	**4,387**	**2,247,372**
1980	**TOTAL**	**1,161,562**	**245,994**	**346,240**	**251,116**	**276,021**	**5,506**	**2,286,439**
1981	January	111,765	25,963	22,081	23,779	22,338	540	206,467
	February	97,653	17,444	21,339	21,595	21,099	483	179,613
	March	99,482	16,957	25,997	22,004	20,572	541	185,553
	April	88,109	15,106	27,460	20,646	20,723	500	172,545
	May	88,941	14,508	30,070	19,723	24,081	483	177,806
	June	99,837	18,972	35,885	21,166	26,370	473	202,702
	July	112,854	20,072	38,712	23,080	25,133	523	220,373
	August	108,403	16,001	36,918	26,946	21,615	520	210,403
	September	97,664	15,566	30,850	24,398	17,822	538	186,838
	October	97,046	16,213	28,917	20,556	18,088	531	181,352
	November	94,841	13,847	24,670	22,783	18,963	465	175,570
	December	106,608	15,772	22,877	25,997	23,879	457	195,590
	TOTAL	**1,203,203**	**206,421**	**345,777**	**272,674**	**260,684**	**6,054**	**2,294,812**
1982	January	113,124	20,674	22,621	25,678	26,896	411	209,403
	February	96,906	15,217	20,920	20,188	26,690	380	180,299
	March	97,625	13,495	23,598	22,755	29,885	330	187,687
	April	88,116	11,192	23,231	21,785	27,928	328	172,580
	May	92,997	9,868	24,291	21,639	27,971	381	177,147
	June	95,314	10,419	27,959	24,026	27,953	458	186,128
	July	110,617	13,380	33,340	25,467	27,294	485	210,584
	August	110,124	11,753	34,418	24,986	23,894	480	205,656
	September	96,896	10,363	27,649	25,391	19,896	468	180,662
	October	93,769	9,885	25,804	23,248	19,750	509	172,966
	November	95,547	9,313	21,466	23,235	23,297	520	173,377
	December	100,970	11,238	19,963	24,376	27,760	415	184,722
	TOTAL	**1,192,004**	**146,797**	**305,260**	**282,773**	**309,213**	**5,164**	**2,241,211**
1983	January	108,164	12,881	19,720	25,090	29,318	506	195,680
	February	92,692	12,586	16,659	22,204	27,950	395	172,485
	March	95,598	12,557	19,686	23,897	30,302	455	182,494

Geographic coverage: the 50 United States and the 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 and wood and waste.
Source: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

Electric Utilities

Electricity Sales[1]

		Residential	Commercial	Industrial	Other[2]	Total
				Million kilowatt-hours		
1973	**TOTAL**	**579,231**	**388,266**	**686,085**	**59,328**	**1,712,910**
1974	**TOTAL**	**578,184**	**384,826**	**684,875**	**58,039**	**1,705,924**
1975	**TOTAL**	**588,140**	**403,049**	**687,680**	**68,222**	**1,747,091**
1976	**TOTAL**	**606,452**	**425,094**	**754,069**	**69,631**	**1,855,246**
1977	**TOTAL**	**645,239**	**446,514**	**786,037**	**70,571**	**1,948,361**
1978	**TOTAL**	**674,466**	**461,163**	**809,078**	**73,215**	**2,017,922**
1979	**TOTAL**	**682,819**	**473,307**	**841,903**	**73,070**	**2,071,099**
1980	**TOTAL**	**717,495**	**488,156**	**815,067**	**73,732**	**2,094,449**
1981	January	74,087	43,229	67,076	7,557	191,949
	February	66,359	41,345	67,411	7,092	182,207
	March	57,660	39,541	68,590	7,035	172,826
	April	50,914	37,910	68,138	6,562	163,525
	May	48,348	39,331	68,714	6,780	163,173
	June	56,165	44,244	71,641	6,777	178,827
	July	69,990	48,989	71,712	7,124	197,814
	August	70,299	49,003	72,010	7,147	198,459
	September	61,098	46,977	71,011	7,164	186,250
	October	52,989	42,183	69,154	7,024	171,350
	November	51,965	39,747	66,161	7,143	165,016
	December	62,391	41,839	64,124	7,351	175,705
	TOTAL	**722,265**	**514,338**	**825,742**	**84,756**	**2,147,101**
1982	January	76,193	44,866	62,928	7,894	191,881
	February	69,070	43,389	62,767	7,409	182,634
	March	R60,441	R41,635	R64,484	R7,221	R173,780
	April	54,918	40,036	62,723	6,836	164,512
	May	49,092	40,021	62,480	6,976	158,569
	June	54,083	44,206	63,684	6,766	168,739
	July	65,704	48,211	62,617	7,035	183,567
	August	69,906	49,720	63,306	6,808	189,740
	September	63,053	48,068	59,980	7,194	178,296
	October	52,638	42,864	60,830	7,084	163,416
	November	52,136	40,572	60,651	7,122	160,479
	December	62,102	42,584	58,464	7,128	170,278
	TOTAL	**729,451**	**526,317**	**744,937**	**85,539**	**2,086,241**
1983	January	69,929	44,011	57,931	7,251	179,122
	February	65,094	42,495	59,085	6,922	173,596
	March†	59,003	41,589	60,267	6,902	167,761

Geographic coverage: the 50 United States and the 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.
†Preliminary data.
R=Revised data. For further explanation of factors used in revising data, see the Technical Notes section of the Energy Information Administration (EIA), *Electric Power Monthly.*
Source: • EIA 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 through December 1982: FERC Form 5, "Electric Utility Company Monthly Statement"; January 1983 forward: EIA Form 826, "Electric Utility Company Monthly Statement"

Electric Utilities

Primary Energy Consumed to Produce Electricity

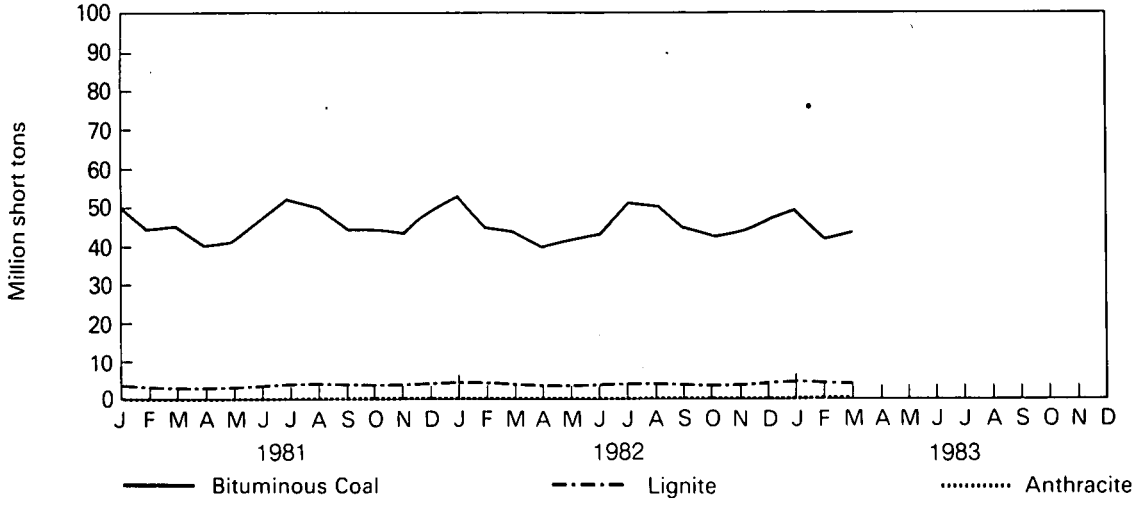
		Coal				Petroleum				Natural Gas
		Anthracite	Bituminous Coal	Lignite	Total	Heavy[1]	Light[2]	Total Liquids	Petroleum Coke	
		Thousand short tons				Thousand barrels			Thousand short tons	Million cubic feet
1973	**TOTAL**	**1,443**	**376,975**	**10,794**	**389,212**	**513,190**	**47,058**	**560,248**	**507**	**3,660,172**
1974	**TOTAL**	**1,498**	**378,643**	**11,670**	**391,811**	**483,146**	**53,128**	**536,274**	**625**	**3,443,428**
1975	**TOTAL**	**1,480**	**388,523**	**15,960**	**405,962**	**467,221**	**38,907**	**506,128**	**70**	**3,157,669**
1976	**TOTAL**	**1,350**	**425,205**	**21,817**	**448,371**	**514,077**	**41,843**	**555,920**	**68**	**3,080,868**
1977	**TOTAL**	**1,425**	**451,051**	**24,650**	**477,126**	**574,869**	**48,837**	**623,705**	**98**	**3,191,200**
1978	**TOTAL**	**1,064**	**448,763**	**31,407**	**481,235**	**588,319**	**47,520**	**635,839**	**398**	**3,188,363**
1979	**TOTAL**	**1,046**	**488,129**	**37,876**	**527,051**	**492,606**	**30,691**	**523,297**	**268**	**3,490,523**
1980	**TOTAL**	**951**	**526,680**	**41,642**	**569,274**	**391,163**	**29,051**	**420,214**	**179**	**3,681,595**
1981	January	81	50,635	3,972	54,688	40,885	3,047	43,931	10	231,606
	February	58	44,583	3,272	47,914	27,755	2,242	29,997	9	224,003
	March	75	45,168	3,155	48,398	27,862	1,405	29,267	9	273,431
	April	73	40,535	3,069	43,677	24,229	1,356	25,585	7	289,053
	May	91	41,405	3,503	44,999	23,130	1,795	24,925	14	316,310
	June	105	46,503	3,471	50,080	29,699	2,705	32,404	13	380,775
	July	102	51,705	4,337	56,144	31,628	2,615	34,243	11	410,666
	August	133	50,010	4,339	54,483	25,760	1,422	27,182	13	389,564
	September	98	44,557	3,828	48,483	25,137	1,145	26,282	13	324,828
	October	115	44,161	3,524	47,800	26,078	1,123	27,201	15	301,670
	November	141	43,032	3,841	47,014	22,042	1,139	23,181	12	258,811
	December	148	48,487	4,481	53,116	25,593	1,319	26,912	12	239,436
	TOTAL	**1,221**	**550,784**	**44,792**	**596,797**	**329,798**	**21,313**	**351,111**	**139**	**3,640,154**
1982	January	89	52,014	4,723	56,825	32,269	3,131	35,399	10	237,675
	February	83	44,478	4,317	48,878	24,351	1,421	25,772	9	220,032
	March	73	43,751	4,060	47,884	21,617	1,304	22,921	4	246,550
	April	88	39,888	3,515	43,490	17,913	1,132	19,045	11	246,344
	May	98	41,845	3,678	45,622	15,939	991	16,930	12	257,848
	June	94	43,340	3,990	47,424	16,539	1,053	17,592	13	295,557
	July	108	50,769	4,371	55,248	21,550	1,360	22,910	11	352,818
	August	95	50,283	4,460	54,838	18,873	1,053	19,926	13	361,351
	September	67	44,431	3,916	48,414	16,544	921	17,464	9	293,232
	October	81	42,598	3,650	46,330	15,990	870	16,860	17	273,003
	November	100	43,756	3,943	47,799	14,908	1,007	15,916	18	226,477
	December	99	46,192	4,622	50,914	17,940	1,094	19,035	22	214,630
	TOTAL	**1,075**	**543,346**	**49,245**	**593,666**	**234,434**	**15,337**	**249,771**	**149**	**3,225,518**
1983	January	73	48,695	4,583	53,351	20,728	1,122	21,850	17	208,337
	February	73	41,668	4,032	45,772	20,305	996	21,301	19	176,965
	March	75	43,095	3,870	47,039	20,174	957	21,131	16	208,010

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Prior to 1980, based on oil used in steam plants. Since January 1980, heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils.
[2]Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since January 1980, light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.
Source: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

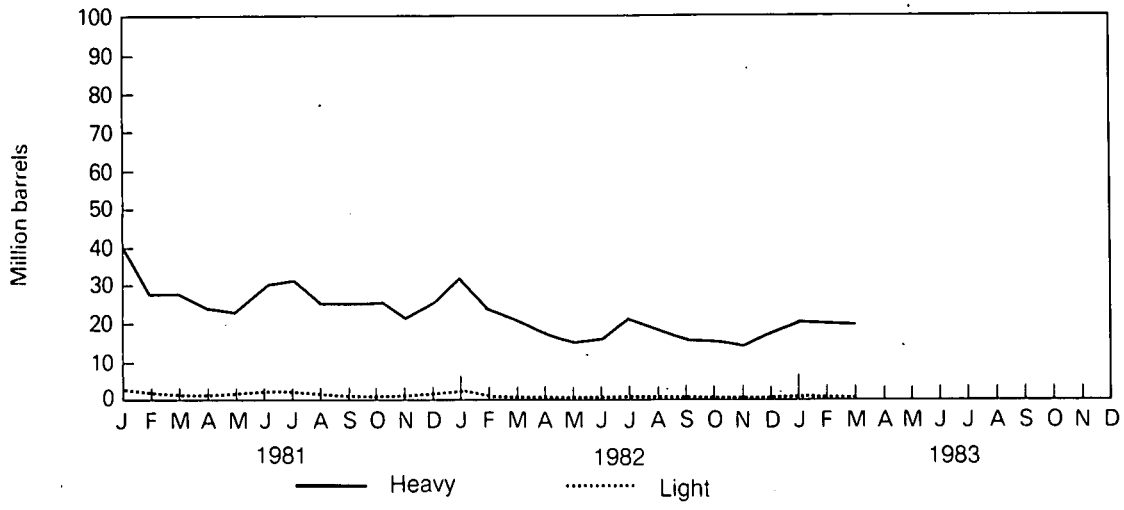
Electric Utilities

Primary Energy Consumed to Produce Electricity

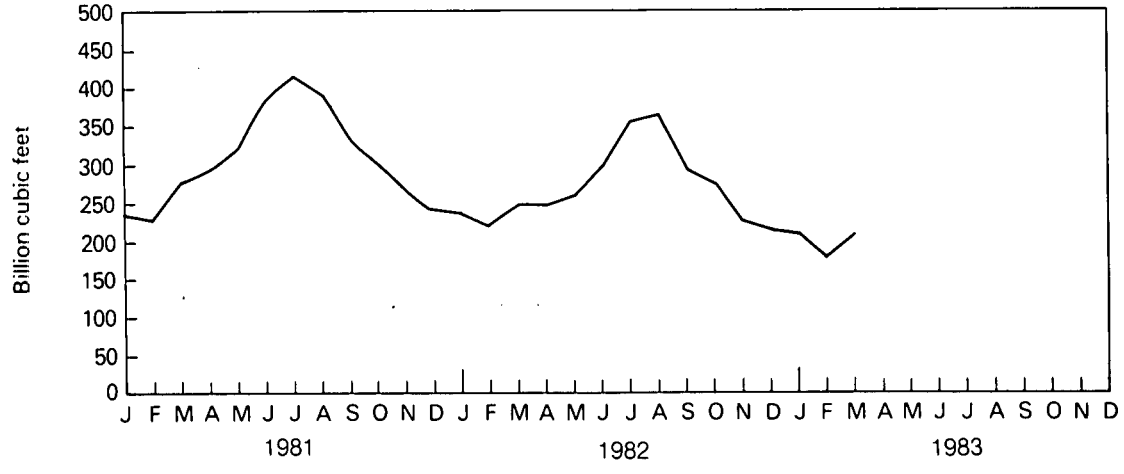
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



Electric Utilities

End-of-Month Coal and Petroleum Stocks

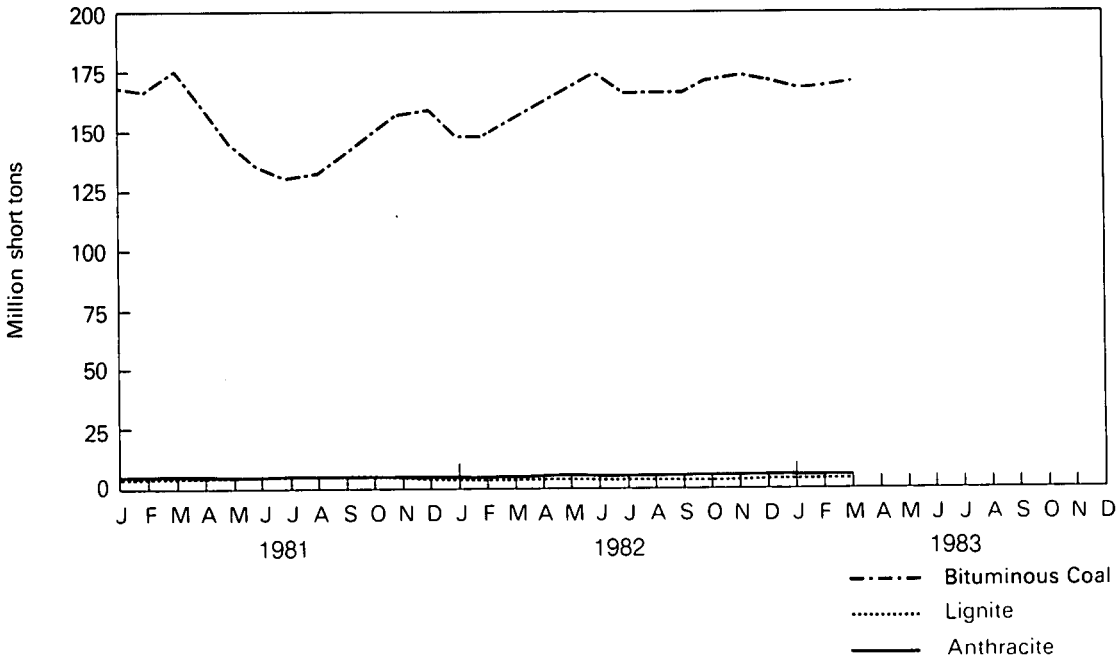
		Coal				Petroleum			
		Anthracite	Bituminous Coal	Lignite	Total	Heavy[1]	Light[2]	Total Liquids	Petroleum Coke
		Thousand short tons				Thousand barrels			Thousand short tons
1973		**‡1,066**	**‡84,941**	**‡961**	**‡86,967**	**‡79,121**	**‡10,095**	**‡89,216**	**‡312**
1974		**‡930**	**‡81,712**	**‡867**	**‡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		**‡3,274**	**‡152,981**	**‡3,459**	**‡159,714**	**‡111,121**	**‡20,301**	**‡131,422**	**‡183**
1980		**‡4,741**	**‡174,154**	**‡4,115**	**‡183,010**	**‡105,351**	**‡30,023**	**‡135,374**	**‡52**
1981	January	4,824	167,884	4,267	176,975	99,196	29,535	128,732	51
	February	4,859	166,552	4,304	175,715	101,867	28,328	130,195	52
	March	4,951	174,554	4,478	183,983	100,178	28,732	128,911	52
	April	5,035	159,645	4,541	169,221	97,629	29,024	126,652	51
	May	5,008	143,500	4,907	153,415	101,574	27,671	129,245	52
	June	5,081	134,321	5,119	144,520	99,398	28,547	127,945	49
	July	5,269	129,684	5,171	140,124	99,603	27,729	127,332	48
	August	5,337	132,072	4,909	142,318	103,104	27,714	130,817	47
	September	5,428	138,808	5,290	149,526	102,104	27,403	129,506	46
	October	5,512	148,952	5,213	159,676	100,008	27,055	127,063	44
	November	5,548	156,360	5,094	167,002	100,301	26,715	127,016	43
	December	5,537	158,258	5,098	168,893	102,042	26,094	128,136	42
1982	January	5,437	148,404	4,628	158,469	94,609	R26,162	120,771	39
	February	5,401	148,118	4,617	158,136	92,622	25,418	118,040	40
	March	5,488	154,724	4,305	164,518	97,706	25,136	122,842	43
	April	5,542	161,720	4,128	171,390	95,984	24,636	120,620	42
	May	5,569	167,805	4,088	177,461	96,607	24,796	121,403	41
	June	5,603	172,819	4,092	182,513	97,959	24,647	122,606	43
	July	5,658	164,688	4,157	174,503	96,085	25,008	121,093	43
	August	5,791	165,182	4,221	175,194	96,345	24,193	120,538	42
	September	5,896	165,065	4,264	175,225	98,160	24,225	122,385	47
	October	5,992	170,281	4,298	180,571	96,920	23,595	120,515	36
	November	6,060	171,832	4,476	182,368	96,618	23,553	120,171	42
	December	6,080	170,480	4,573	181,132	95,515	23,369	118,884	41
1983	January	6,107	167,515	4,210	177,832	91,474	23,942	115,416	54
	February	6,104	167,843	4,362	178,310	85,847	23,438	109,284	53
	March	6,143	169,538	4,201	179,883	81,632	23,199	104,831	54

Geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Prior to 1980, based on oil used in steam plants. Since January 1980, heavy oil includes Grade Nos. 4, 5, and 6, and residual fuel oils.
[2]Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since January 1980, light oil includes Grade No. 2 heating oil, kerosene, and jet fuel.
‡Total as of December 31. R=Revised data.
Source: • 1973 through September 1977: Federal Power Commission, Form 4, "Monthly Power Plant Report"; October 1977 through 1981: Federal Energy Regulatory Commission, FPC Form 4, "Monthly Power Plant Report"; 1982 forward: Energy Information Administration Form 759, "Monthly Power Plant Report."

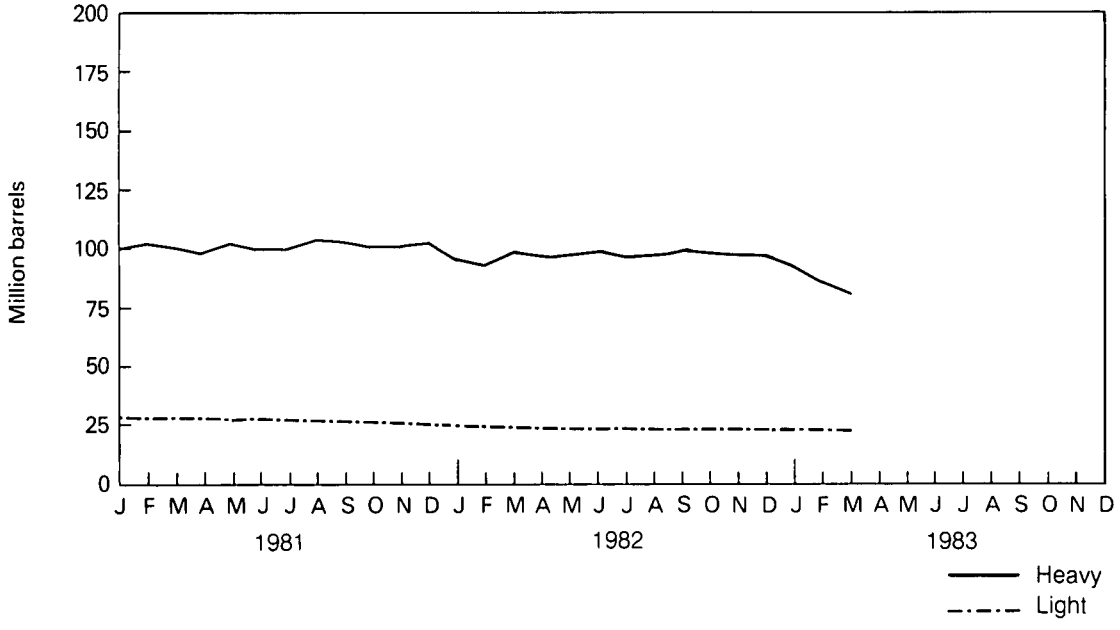
Electric Utilities

End-of-Month Coal and Petroleum Stocks

Coal Stocks (Bituminous Coal, Lignite, and Anthracite)



Petroleum Stocks



Nuclear

During March 1983, U.S. nuclear powerplants generated a total of 23.9 billion net kilowatt-hours (kWh) of electricity, equivalent to a daily output of 770.9 million net kWh. This was 2.8 percent below the average daily generation for February 1983, but 5.0 percent above the comparable output for March 1982. Nuclear power supplied 13.1 percent of the electricity generated by domestic utilities in March 1983.

McGuire-2, a 1,180-net megawatt electric pressurized water reactor operated by Duke Power Company in North Carolina, was granted a Low Power License on March 3, 1983. This license enables the unit to be fuel-loaded and tested at up to 5 percent power.

The licensing of McGuire-2 brought the number of licensed U.S. power reactors, as of March 31, 1983, to 80 and raised the total U.S. nuclear powerplant capacity to 62.7 million net kilowatts. Of the 80 units, 3 were in fuel loading or low-power testing (Grand Gulf-1, McGuire-2, and San Onofre-3), 4 were in power ascension (LaSalle-1, San Onofre-2, Summer-1, and Susquehanna-1), and 25 generated no electricity or operated substantially below capacity in March (Arnold, Arkansas-1, Browns Ferry-2, Brunswick-1, Connecticut Yankee, Dresden-2, Farley-1, Fort Calhoun, Fort St. Vrain, Indian Point-3, McGuire-1, Nine Mile Point-1, Oyster Creek, Peach Bottom-3, Rancho Seco, Salem-1, Salem-2, San Onofre-1, St. Lucie-1, Surry-1, Three Mile Island-1, Trojan, Turkey Point-4, Vermont Yankee, and Zion-2).

As of March 31, 1983, the total number of nuclear powerplants in all stages of planning, construction, or operation was 144 units, with an aggregate design capacity of 135 million net kilowatts.

Indian Point nuclear station, operated by Consolidated Edison and the Power Authority of the State of New York, could be shut down by the Nuclear Regulatory Commission due to inadequate emergency procedures. The two utilities must satisfy requirements of the Federal Emergency Management Agency concerning evacuation and other emergency planning procedures by June 9, 1983.

Nuclear

Nuclear Powerplant Operations[1]

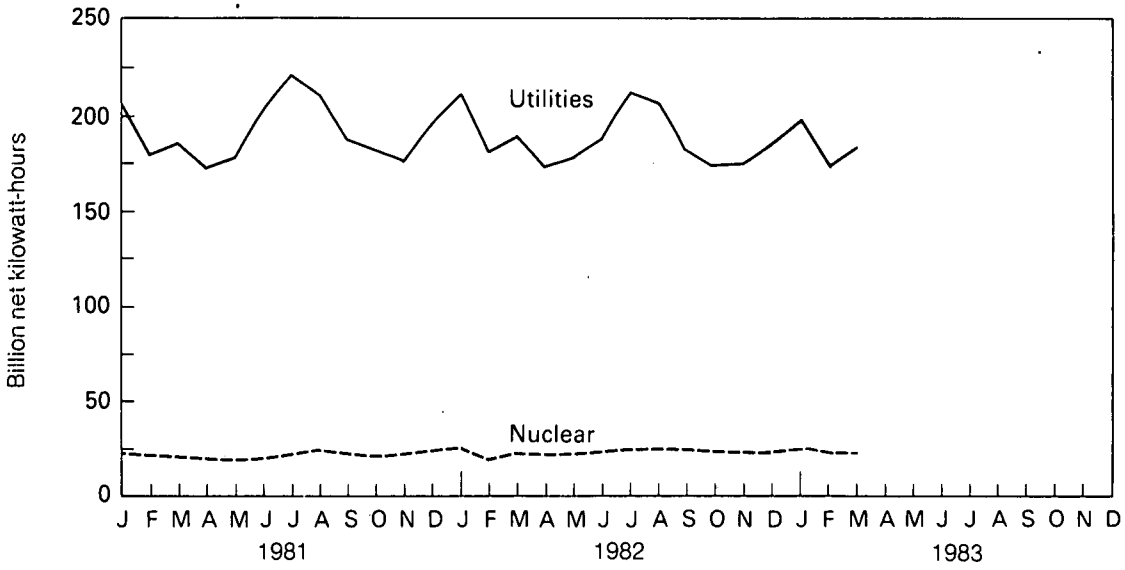
		Reactors Licensed For Operation[2]	Nuclear-Based Electricity Generation	Nuclear Portion of Domestic Electricity Generation	Maximum Dependable Capacity[3]	Capacity Factor[4]
			Million net kilowatt-hours	Percent	Million net kilowatts	Percent
1973		**40**	**83,479**	**4.5**	**19.843**	**63.2**
1974		**55**	**113,976**	**6.1**	**35.732**	**43.5**
1975		**58**	**172,505**	**9.0**	**35.794**	**55.2**
1976		**65**	**191,104**	**9.4**	**44.609**	**53.5**
1977		**68**	**250,883**	**11.8**	**47.155**	**62.9**
1978		**72**	**276,403**	**12.5**	**50.824**	**63.9**
1979		**71**	**255,155**	**11.4**	**50.944**	**57.6**
1980		**72**	**251,116**	**11.0**	**52.597**	**55.1**
1981	January	73	23,779	11.5	54.374	58.8
	February	73	21,595	12.0	54.372	59.1
	March	73	22,004	11.9	54.429	54.3
	April	73	20,646	12.0	54.095	53.1
	May	73	19,723	11.1	54.074	49.0
	June	74	21,166	10.4	55.214	53.2
	July	74	23,080	10.5	54.998	56.4
	August	74	26,946	12.8	54.820	66.1
	September	75	24,398	13.1	56.974	60.5
	October	75	20,556	11.3	56.412	48.9
	November	74	22,783	13.0	55.328	57.2
	December	74	25,997	13.3	55.524	62.9
	ANNUAL	**74**	**272,674**	**11.9**	**55.524**	**56.6**
1982	January	74	25,678	12.3	55.471	62.2
	February	75	20,188	11.2	56.608	53.1
	March	75	22,755	12.1	56.609	54.0
	April	76	21,785	12.6	57.415	52.8
	May	76	21,639	12.2	57.428	50.6
	June	77	24,026	12.9	58.560	57.0
	July	78	25,467	12.1	59.601	57.4
	August	79	24,986	12.1	60.521	55.5
	September	79	25,391	14.1	60.501	58.3
	October	78	23,248	13.4	59.921	52.1
	November	79	23,235	13.4	61.523	52.5
	December	79	24,376	13.2	59.678	54.9
	ANNUAL	**79**	**282,773**	**12.6**	**59.678**	**55.0**
1983	January	79	25,090	12.8	R61.030	R55.3
	February	79	22,204	12.9	R61.117	R54.1
	March	80	23,897	13.1	62.697	51.2

Geographic coverage: the 50 United States and the 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]See Note 1 on the last page of this section.
[3]In this table, when possible, net maximum dependable capacity (MDC) is used. When a reactor has not been operating long enough to permit determination of an MDC, the net design electrical rating (DER) is used. The capacities for some units have been reduced by the imposition of a "power limit" by the Nuclear Regulatory Commission or by the operating utility. Beginning in January 1980, the reduced capacities are used for these units. For the definitions of MDC and DER, see Note 2 on the last page of this section.
[4]The monthly capacity factors are computed as the actual monthly generation divided by the maximum possible generation for that month, where the maximum possible generation is the number of hours in the month multiplied by the monthly maximum dependable capacity (MDC). This fraction is then multiplied by 100 to obtain a percentage. Monthly capacity factors are averaged to obtain annual values. For the definition of MDC, see Note 2 on the last page of this section.
R=Revised data.
Sources: • See the last page of this section.

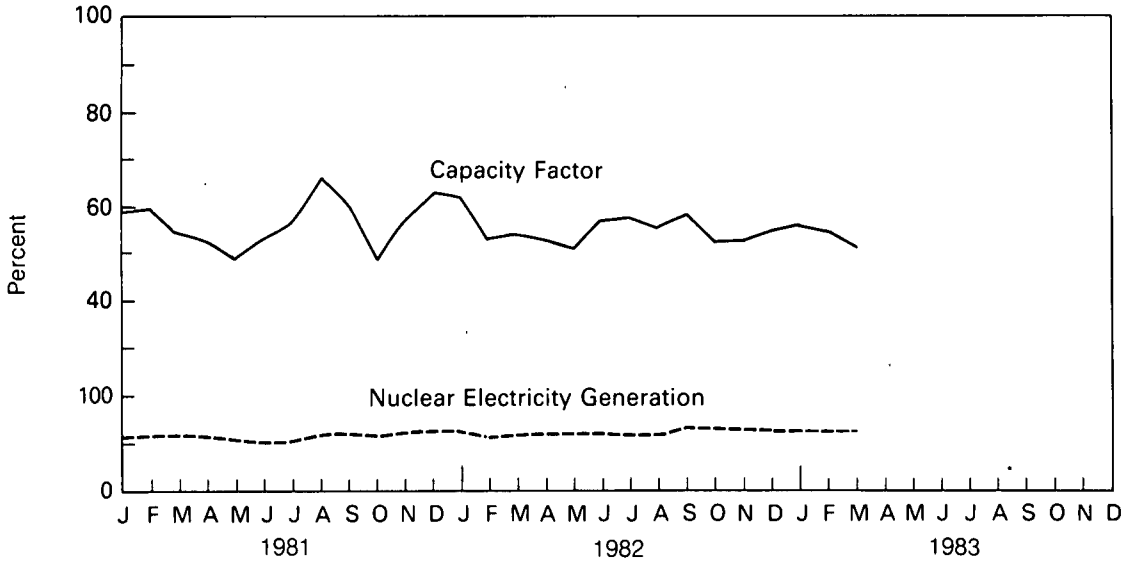
Nuclear

Nuclear Powerplant Operations

Electricity Generated by Utilities and by Nuclear Powerplants



Nuclear Portion of Electricity Generation and Capacity Factor*



*Percentage of Maximum Dependable Capacity utilized.

Nuclear

Status of Nuclear Reactor Units[1]

		Reactors Licensed For Operation[2]	Construction Permits Granted	Construction Permits Pending	Reactor Units on Order	Reactor Units Announced	Total Reactor Units	Total Design Capacity[3] (Million Net Kilowatts)
1973		**40**	**51**	**58**	**48**	**20**	**217**	**212**
1974		**55**	**58**	**80**	**28**	**16**	**235**	**234**
1975		**58**	**69**	**73**	**19**	**19**	**236**	**236**
1976		**65**	**72**	**66**	**16**	**19**	**235**	**236**
1977		**68**	**80**	**52**	**13**	**9**	**221**	**220**
1978		**72**	**90**	**32**	**9**	**4**	**206**	**204**
1979		**71**	**91**	**21**	**3**	**0**	**186**	**180**
1980		**72**	**82**	**12**	**3**	**0**	**169**	**163**
1981	January	73	81	12	3	0	169	163
	February	73	81	12	3	0	169	163
	March	73	81	12	3	0	169	163
	April	73	81	12	3	0	169	163
	May	73	81	12	3	0	169	163
	June	74	80	12	3	0	169	163
	July	74	80	12	3	0	169	163
	August	74	79	12	3	0	168	162
	September	75	78	11	3	0	167	161
	October	75	77	11	3	0	166	160
	November	74	78	11	3	0	166	160
	December	74	75	11	3	0	163	157
1982	January	74	73	11	3	0	161	154
	February	75	72	6	2	0	155	147
	March	75	72	6	2	0	155	147
	April	76	71	6	2	0	155	147
	May	76	71	6	2	0	155	147
	June	77	70	6	2	0	155	147
	July	78	67	6	2	0	153	145
	August	79	64	5	2	0	150	141
	September	79	64	3	2	0	148	138
	October	78	64	3	2	0	147	138
	November	79	60	3	2	0	144	135
	December	79	60	3	2	0	144	135
1983	January	79	60	3	2	0	144	135
	February	79	60	3	2	0	144	135
	March	80	59	3	2	0	144	135

Geographic coverage: the 50 United States and the 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]See Note 1 on the last page of this section.
[3]Net design electrical rating is used because many of the units in this table have not been operating long enough for a maximum dependable capacity to be determined. See Note 2 on the last page of this section.
Sources: • See the last page of this section.

Notes and Sources for the Nuclear Section

Notes

1. **Reactors Licensed for Operation:** This column includes units that have received Full Power and/or Low Power Licenses from the Nuclear Regulatory Commission with two exceptions. Hanford, an 850-net megawatt (MWe) reactor operated by the Department of Energy, is included, although it is not licensed by the NRC, because it distributes commercial electricity. The Experimental Breeder Reactor-2 is not included, although it generates electricity, because it does not distribute the electricity commercially. Three units that had been inoperative for at least 9 months prior to January 1980 are deleted from subsequent entries in the tables: Humboldt Bay (capacity=65 MWe), which requires major seismic modifications; Dresden-1 (capacity=200 MWe), which also needs major modifications; and Three Mile Island-2 (capacity=906 MWe), whose core was severely damaged by a loss-of-coolant accident in March 1979. Shippingport (capacity=60 MWe), which was a second reactor operated by the Department of Energy, was officially retired from service on October 1, 1982, and is deleted from subsequent entries in the tables.
2. **Capacity:** Nuclear powerplants may have more than one type of capacity rating, including:
   (a) Gross Maximum Dependable Capacity (MDC)—The gross electrical output measured at the output terminals of the turbine generator(s) during the most restrictive seasonal conditions (usually summer).
   (b) Net Maximum Dependable Capacity (MDC)—The gross MDC less the station service load. The typical station service load for a nuclear plant is about 5 percent of its gross generation.
   (c) Net Design Capacity or Net Design Electrical Rating (DER) —The nominal net electrical output of the unit, specified by the utility and used for plant design.

Sources

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

Price

Crude Oil

The average price of domestic crude oil purchased at the wellhead was $26.06 per barrel in March 1983. This was 1.3 percent below the previous month's level and 7.9 percent below the level in March 1982.

During March 1983, the composite refiner acquisition cost of crude oil was $28.62 per barrel, $0.87 per barrel (3.0 percent) below the previous month's price of $29.49. The price of imported crude oil decreased $2.33 per barrel from the February 1983 level to $28.43 per barrel in March. This price was 16.6 percent below the March 1982 level. The price of domestic crude oil in March 1983 was $28.67, a decrease of $0.49 per barrel from the February 1983 average.

Residual Fuel Oil

The average price, excluding taxes, of No. 6 residual fuel oil sold to utilities, industry, and other ultimate consumers in December 1982 was $28.47 per barrel, $1.37 per barrel (4.6 percent) below the previous month's price and 7.9 percent below the December 1981 average. The average price, excluding taxes, of No. 6 residual fuel oil sold to resellers, bulk plants, jobbers, and other wholesale accounts in December 1982 was $26.81 per barrel, $1.50 per barrel (5.3 percent) below the November 1982 average and 1.7 percent below the December 1981 average.

Heating Oil

The national average price of heating oil sold to residential customers in December 1982 was 119.6 cents per gallon. This was 1.6 percent below the selling price in November 1982 and 2.0 percent below the December 1981 price. The average distributor margin on residential heating oil in December was 22.9 cents per gallon, 25.1 percent above the margin during December 1981. The refiners' national average selling price to resellers and retailers was 89.9 cents per gallon in December 1982, 10.6 percent below the December 1981 average.

Aviation Fuel

The average price, excluding taxes, of kerosene-type jet fuel sold to commercial airlines, Department of Defense, and other ultimate consumers in December 1982 was 95.6 cents per gallon, a decrease of 0.8 percent from the previous month's average and a 6.5-percent decrease from the December 1981 average.

Motor Gasoline

The national average retail price of all grades and all types of motor gasoline was 119.8 cents per gallon in April 1983. Leaded regular gasoline at all types of stations sold for an average of 113.1 cents per gallon in April, 6.7 cents (6.3 percent) higher than the price in March 1983. The price of unleaded regular gasoline at all types of stations was 121.5 cents per gallon in April, 6.4 cents (5.6 percent) higher than the price in March.

Liquefied Petroleum Gases

The average wholesale price of propane during December 1982, excluding taxes, was 49.5 cents per gallon, 7.0 percent below the previous month's level but 8.8 percent above the December 1981 level.

In December 1982, the average wholesale price of butane, excluding taxes, was 72.6 cents per gallon, 4.6 percent below the previous month's price but 31.0 percent above the December 1981 average.

Part 9 Price

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	**AVERAGE**	**12.64**	**14.27**	**21.67**	**17.72**	**17.66**	**18.67**
1980	**AVERAGE**	**21.59**	**24.23**	**33.89**	**28.07**	**23.14**	**26.09**
1981	January	28.85	32.71	38.85	34.86	31.14	33.65
	February	34.14	36.27	39.00	37.28	31.81	36.04
	March	34.70	36.97	38.31	37.48	31.78	36.11
	April	34.05	35.58	38.41	36.58	30.56	34.70
	May	32.71	35.21	37.84	36.11	30.41	34.11
	June	31.71	34.20	37.03	35.03	25.95	31.03
	July	31.13	33.76	36.58	34.70	26.52	30.57
	August	31.13	33.79	35.82	34.46	27.01	30.52
	September	31.13	33.47	35.44	34.11	26.20	30.33
	October	31.00	33.48	35.43	34.07	26.78	30.32
	November	30.98	33.49	36.21	34.33	27.99	30.16
	December	30.72	33.51	35.95	34.33	27.26	30.90
	AVERAGE	**31.77**	**34.33**	**37.05**	**35.24**	**28.86**	**32.50**
1982	January	30.87	33.39	35.54	33.95	27.07	29.83
	February	29.76	32.71	35.48	33.40	26.29	30.02
	March	28.31	31.08	34.07	31.81	25.73	29.50
	April	27.65	30.27	32.82	30.83	25.46	28.21
	May	27.67	30.37	32.78	31.02	26.52	28.93
	June	28.11	30.79	33.79	31.74	26.62	29.59
	July	28.33	30.92	33.44	31.74	25.97	29.33
	August	28.18	30.85	32.95	31.45	26.34	28.44
	September	27.99	30.76	33.03	31.40	26.49	28.43
	October	28.74	31.38	33.28	31.98	27.52	29.28
	November	28.70	31.57	33.09	32.07	28.31	29.84
	December	28.12	30.80	32.85	31.29	26.81	28.47
	AVERAGE	**28.52**	**31.22**	**33.55**	**31.87**	**26.55**	**29.08**
1983	January	27.22	30.55	31.40	30.73	NA	NA
	February	26.41	R29.16	R30.76	R29.49	NA	NA
	March†	26.06	28.67	28.43	28.62	NA	NA
	April	NA	NA	NA	NA	NA	NA

Geographic coverage: the 50 United States and the District of Columbia, except for the refiner acquisition cost of crude oil, which is the 50 United States, the District of Columbia, Puerto Rico, Guam, and the Virgin Islands.
[1]See Note 1 on the last two pages of this section.
[2]See Note 2 on the last two pages of this section.
[3]Wholesale refers to the price of residual fuel oil sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and other residual dealers. Retail refers to the price at which residual fuel oil is sold to ultimate consumers such as utility, industrial, commercial, and residential accounts.
[4]Excludes tax.
See additional footnotes on the following page.

Price

Petroleum Price Summary (continued)

		No. 2 Diesel Price Average[5]		No. 2 Heating Oil Price Average		Gasoline Price Average All Types[6]	Propane Price Average[7]	Butane Price Average[7]
		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	**AVERAGE**	**58.2**	**62.4**	**53.0**	**65.6**	**88.2**	**29.5**	**45.8**
1980	**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	66.1
	February	99.5	106.1	106.0	123.4	135.3	48.2	63.0
	March	101.7	108.8	106.3	125.5	138.8	48.3	62.1
	April	101.3	107.7	105.2	123.9	138.1	49.3	60.1
	May	100.8	106.8	104.0	122.7	137.0	48.6	56.8
	June	99.5	106.6	103.0	120.9	136.2	46.0	52.7
	July	98.8	103.8	102.7	121.0	135.3	46.0	56.5
	August	97.8	105.9	102.2	119.4	134.8	47.2	60.6
	September	97.6	104.8	101.6	119.7	135.8	47.7	64.6
	October	97.4	105.3	101.1	118.8	135.3	47.3	64.7
	November	98.3	105.2	102.3	120.8	135.1	47.5	61.6
	December	98.3	105.1	102.6	122.0	134.8	45.5	55.4
	AVERAGE	**98.5**	**106.2**	**102.6**	**120.5**	**135.3**	**47.2**	**60.4**
1982	January	98.0	105.3	101.5	122.0	134.1	43.1	51.8
	February	94.8	103.2	98.3	120.7	131.8	38.3	48.9
	March	90.2	98.0	91.3	115.3	126.8	35.7	49.6
	April	86.6	96.1	90.0	113.2	121.0	34.9	56.1
	May	89.1	97.6	95.1	114.3	122.4	35.4	65.6
	June	93.5	102.2	98.5	116.2	129.6	36.9	67.9
	July	93.4	101.1	98.6	115.8	131.8	39.7	69.7
	August	92.3	99.3	96.7	115.9	131.0	43.8	72.2
	September	92.4	99.8	97.7	115.2	129.5	49.5	77.4
	October	95.7	102.1	102.0	119.6	128.0	51.0	75.7
	November	97.3	104.5	101.5	121.6	126.8	53.2	76.1
	December	91.2	100.3	95.9	119.6	124.4	49.5	72.6
	AVERAGE	**92.7**	**100.5**	**97.4**	**118.6**	**128.1**	**43.3**	**64.8**
1983	January	NA	NA	NA	NA	121.3	NA	NA
	February	NA	NA	NA	NA	117.0	NA	NA
	March	NA	NA	NA	NA	113.5	NA	NA
	April	NA	NA	NA	NA	119.8	NA	NA

Footnotes continued.
[5]Wholesale refers to the price of diesel fuel sold to other refiners and resellers, including branded and unbranded jobbers and commercial accounts. Retail refers to the price at which company-owned and operated retail dealers sell to customers.
[6]Beginning with September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. In the average for all types category, gasohol is now included and unleaded premium is weighted more heavily. See Note 5 on the last two pages of this section for additional information on motor gasoline prices.
[7]Wholesale refers to the price at which refiners, resellers, retailers, and gas plants sell to one another, including sales to agricultural and industrial accounts. Excludes butane/propane mixtures.
†Preliminary data. R=Revised data. NA=Not available.
Sources: • See the last two pages of this section.

Price

FOB Cost of Crude Oil Imports from Selected 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	**AVERAGE**	**20.65**	**19.35**	**23.71**	**22.43**	**20.29**	**21.80**	**17.63**	**19.58**	**21.20**	**17.37**
1980	**AVERAGE**	**36.57**	**32.37**	**(2)**	**36.41**	**31.11**	**35.82**	**28.53**	**NA**	**34.58**	**24.78**
1981	January	39.37	36.54	(2)	40.52	35.88	40.11	32.39	NA	38.34	32.87
	February	40.13	36.13	(2)	40.73	36.57	40.03	32.60	NA	39.41	30.36
	March	40.30	36.40	(2)	40.25	35.60	39.85	32.73	NA	39.50	31.24
	April	39.70	36.38	(2)	40.04	33.81	39.92	32.41	NA	38.85	29.93
	May	39.57	36.09	(2)	38.91	34.45	39.11	32.13	NA	37.16	28.39
	June	39.20	36.95	(2)	39.85	30.30	38.44	32.42	NA	35.84	30.50
	July	38.06	35.47	(2)	38.70	32.72	39.25	32.07	NA	34.89	29.25
	August	39.34	35.61	(2)	39.45	31.23	39.55	31.95	NA	34.38	27.08
	September	39.60	35.82	(2)	36.74	30.37	36.04	32.09	NA	34.44	28.14
	October	36.90	35.08	(2)	36.36	30.83	35.45	33.56	NA	34.87	27.27
	November	36.55	35.53	(2)	37.15	31.80	36.41	33.49	NA	35.97	28.39
	December	37.35	36.08	(2)	36.78	31.29	36.49	33.70	NA	36.46	28.02
	AVERAGE	**39.09**	**35.93**	**(2)**	**39.44**	**33.13**	**38.53**	**32.48**	**NA**	**36.08**	**28.86**
1982	January	36.96	35.53	(2)	35.69	29.67	36.23	33.40	NA	36.20	29.07
	February	35.56	35.59	(2)	34.64	30.92	35.92	33.50	NA	34.00	28.94
	March	31.50	35.74	(2)	34.21	27.86	34.94	33.77	NA	30.78	22.89
	April	30.54	35.69	(2)	(2)	26.96	33.80	33.49	NA	32.49	21.89
	May	33.32	34.82	31.11	(2)	28.53	35.22	32.97	NA	32.43	22.31
	June	34.72	35.95	NA	(2)	28.18	35.18	33.80	NA	33.67	22.25
	July	34.35	35.22	31.44	(2)	28.32	35.15	33.26	NA	33.66	23.50
	August	33.03	35.63	31.17	(2)	27.67	35.13	32.63	NA	33.17	20.71
	September	34.20	35.24	NA	(2)	27.95	34.70	32.98	NA	33.30	23.58
	October	34.26	35.25	NA	(2)	27.82	35.05	33.54	NA	33.93	22.93
	November	34.44	34.99	29.80	(2)	27.63	35.02	33.59	NA	34.08	23.74
	December	34.86	34.73	29.09	(2)	27.63	33.18	34.04	NA	33.21	26.21
	AVERAGE	**34.23**	**35.27**	**30.93**	**35.12**	**28.07**	**35.13**	**33.50**	**NA**	**33.46**	**23.77**
1983	January	NA	34.71	NA	(2)	26.90	NA	NA	NA	32.77	21.58
	February	NA	33.74	NA	(2)	R25.69	NA	NA	NA	R30.95	R21.82
	March†	NA	29.69	NA	(2)	24.61	29.65	NA	NA	29.52	20.34

[1]The Free on Board (FOB) cost excludes all costs related to insurance and transportation. See Note 3 on the last two pages of this section.
[2]No crude oil was imported.
Note: Prices shown through December 1980 are for the month of reporting; prices since then are for the month of loading.
†Preliminary data. R=Revised data. NA=Not available.
Sources: • See the last two pages of this section.

Price

Landed Cost of Crude Oil Imports from Selected 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	**AVERAGE**	**21.90**	**20.43**	**20.69**	**25.02**	**23.68**	**20.86**	**22.96**	**19.15**	**21.90**	**22.16**	**18.18**
1980	**AVERAGE**	**37.90**	**30.47**	**33.92**	**(2)**	**37.72**	**31.80**	**37.05**	**30.02**	**NA**	**35.88**	**25.86**
1981	January	41.25	34.26	38.08	(2)	41.81	36.81	41.55	34.06	NA	39.90	33.80
	February	41.90	33.73	37.86	(2)	42.19	37.23	41.46	34.38	NA	40.69	31.20
	March	41.62	33.88	38.11	(2)	41.60	36.42	40.98	34.42	NA	40.72	32.09
	April	40.96	33.74	37.95	(2)	41.58	34.42	41.04	34.16	NA	40.02	30.97
	May	40.81	32.70	37.72	(2)	40.46	34.83	40.10	33.73	NA	38.31	29.39
	June	40.31	32.67	38.73	(2)	41.44	31.03	39.60	34.29	NA	37.04	31.46
	July	39.59	31.19	37.20	(2)	40.27	33.18	40.05	33.72	NA	35.87	29.22
	August	40.65	30.44	37.07	(2)	40.30	31.77	40.85	33.23	NA	35.40	28.11
	September	41.62	30.83	37.52	(2)	37.73	30.84	37.20	33.66	NA	35.26	29.12
	October	37.52	31.17	36.39	(2)	38.15	31.34	36.64	34.88	NA	36.00	28.27
	November	37.43	31.04	36.84	(2)	38.50	32.42	37.59	34.91	NA	36.87	29.27
	December	38.14	31.37	37.31	(2)	38.89	31.85	37.52	35.37	NA	37.44	29.00
	AVERAGE	**40.49**	**32.16**	**37.57**	**(2)**	**40.92**	**33.78**	**39.70**	**34.19**	**NA**	**37.24**	**29.87**
1982	January	38.19	31.05	36.88	(2)	36.91	30.21	37.37	34.44	NA	36.78	29.82
	February	37.09	28.80	36.81	(2)	35.28	31.47	37.06	34.51	NA	35.04	30.09
	March	32.25	26.71	37.17	(2)	34.80	28.69	35.81	34.92	NA	31.35	23.92
	April	31.66	24.86	36.87	(2)	(2)	27.58	34.82	34.80	NA	33.19	23.09
	May	34.24	24.90	36.50	32.01	(2)	29.18	36.06	34.28	NA	33.22	23.44
	June	35.41	24.63	37.35	NA	(2)	28.76	36.15	35.20	NA	34.41	23.43
	July	35.26	26.62	37.04	32.08	(2)	28.95	36.19	35.04	NA	34.67	24.61
	August	33.87	26.40	36.81	31.84	(2)	28.19	36.16	34.28	NA	33.88	21.90
	September	34.88	26.52	36.65	NA	(2)	28.50	35.56	34.45	NA	34.01	24.53
	October	35.41	26.91	36.83	33.28	(2)	28.22	35.98	35.21	NA	34.56	23.90
	November	35.82	26.78	36.49	32.66	(2)	28.17	36.04	35.41	NA	34.74	24.91
	December	35.70	27.35	36.19	32.73	(2)	28.19	34.54	36.43	NA	34.05	27.09
	AVERAGE	**35.28**	**26.92**	**36.75**	**32.40**	**36.05**	**28.64**	**36.17**	**35.00**	**NA**	**34.28**	**24.82**
1983	January	33.20	27.62	36.12	NA	(2)	27.50	NA	NA	NA	33.48	23.20
	February	32.17	R26.19	R35.07	NA	(2)	R26.15	R32.24	NA	NA	R33.33	R23.36
	March†	31.27	24.78	31.17	NA	(2)	25.17	30.59	31.63	NA	29.93	21.71

[1]See Note 4 on the last two pages of this section.
[2]No crude oil was imported.
Note: Prices shown through December 1980 are for the month of reporting; prices since then are for the month of loading.
†Preliminary data. R=Revised data. NA=Not available.
Sources: • See the last two pages of this section.

Price

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

		Leaded Regular	Unleaded Regular	Leaded Premium	Average for All Types
		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	**AVERAGE**	**85.7**	**90.3**	**92.2**	**88.2**
1980	**AVERAGE**	**119.1**	**124.5**	**128.1**	**122.1**
1981	January	123.8	129.8	133.8	126.9
	February	132.1	138.2	141.0	135.3
	March	135.2	141.7	144.9	138.8
	April	134.4	141.2	145.1	138.1
	May	133.3	140.0	144.7	137.0
	June	132.4	139.1	144.6	136.2
	July	131.5	138.2	144.6	135.3
	August	131.0	137.6	144.4	134.8
	September[2]	130.5	137.6	145.6	135.8
	October	129.9	137.1	145.7	135.3
	November	129.7	136.9	146.2	135.1
	December	129.3	136.5	146.0	134.8
	AVERAGE	**131.1**	**137.8**	**143.9**	**135.3**
1982	January	128.5	135.8	145.6	134.1
	February	126.0	133.4	143.8	131.8
	March	120.6	128.4	140.7	126.8
	April	114.8	122.5	136.8	121.0
	May	116.6	123.7	137.9	122.4
	June	124.2	130.9	140.8	129.6
	July	126.3	133.1	145.0	131.8
	August	125.4	132.3	145.8	131.0
	September	123.6	130.8	144.1	129.5
	October	121.9	129.5	141.3	128.0
	November	120.7	128.3	141.2	126.8
	December	118.1	126.0	137.1	124.4
	AVERAGE	**122.2**	**129.6**	**141.7**	**128.1**
1983	January	114.6	122.8	135.3	121.3
	February	109.9	118.7	131.8	117.0
	March	106.4	115.1	127.4	113.5
	April	113.1	121.5	132.1	119.8

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

Price

Aviation Fuel

		Aviation Gasoline		Naphtha-Type[1]	Kerosene-Type	
		Wholesale[2]	Retail[2]	Retail[2]	Wholesale[2]	Retail[2]
		Cents per gallon, excluding tax				
1976	**AVERAGE**	**42.4**	**43.1**	**31.5**	**32.5**	**31.2**
1977	**AVERAGE**	**46.7**	**47.7**	**35.0**	**36.7**	**35.8**
1978	**AVERAGE**	**51.0**	**52.1**	**37.5**	**38.9**	**38.9**
1979	**AVERAGE**	**68.5**	**69.5**	**52.3**	**66.5**	**55.1**
1980	**AVERAGE**	**107.2**	**109.4**	**88.2**	**87.5**	**87.4**
1981	January	118.9	121.6	99.2	97.1	95.7
	February	121.3	128.1	102.7	103.6	101.6
	March	127.2	131.1	106.9	104.8	106.3
	April	117.5	131.3	109.0	103.8	106.4
	May	120.7	133.5	109.1	104.4	106.2
	June	116.5	132.1	107.6	102.3	104.8
	July	120.1	133.4	106.3	100.5	103.8
	August	120.0	132.5	105.7	101.4	103.3
	September	121.0	133.5	105.6	103.0	103.3
	October	117.2	134.5	104.8	99.9	101.1
	November	114.4	133.2	104.5	101.9	102.6
	December	116.8	131.9	103.8	101.9	102.2
	AVERAGE	**118.8**	**131.5**	**105.7**	**102.0**	**103.1**
1982	January	122.4	133.2	101.7	101.3	101.6
	February	122.0	134.0	101.3	100.0	101.0
	March	117.0	134.8	98.4	97.6	99.6
	April	113.4	132.7	96.0	93.0	96.8
	May	109.6	132.7	94.1	91.7	95.5
	June	114.7	132.5	98.4	94.1	95.3
	July	120.4	134.4	98.7	94.3	95.3
	August	117.7	132.6	97.3	95.0	95.4
	September	115.7	130.0	98.2	95.5	95.1
	October	116.6	131.5	98.5	98.4	95.8
	November	118.4	131.7	96.4	98.2	96.4
	December	119.6	130.3	94.0	93.7	95.6
	AVERAGE	**116.7**	**132.4**	**97.7**	**96.1**	**96.9**

Geographic coverage: the 50 United States and the 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.
Sources: • See the last two pages of this section.

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

Geographic coverage: the 50 United States and the District of Columbia.
[1]See Note 6 on the last two pages of this section.
[2]Average selling prices, purchase prices, and dealer margins represent sales for residential heating oil only.
NA=Not available.
Sources: • See the last two pages of this section.

Price

Residential Heating Oil Prices by Region

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

[1]Standard Federal Regions are defined in Note 7 on the last two pages of this section.
[2]Not available for publication due to fewer than four firms reporting.
Sources: • See the last two pages of this section.

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

Geographic coverage: the 50 United States and the District of Columbia.
Note: Wholesale refers to the price of residual fuel sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and other residual dealers. Retail refers to the price at which residual fuel oil is sold to ultimate consumers such as utility, industrial, commercial, and residential accounts.
Sources: • See the last two pages of this section.

Price

Natural Gas

		Average Wellhead Value	Delivered to Electric Plants[1]	Average Residential Heating
		Dollars per thousand cubic feet		
1973	**AVERAGE**	**0.22**	**0.35**	**1.08**
1974	**AVERAGE**	**0.30**	**0.49**	**1.25**
1975	**AVERAGE**	**0.45**	**0.77**	**1.54**
1976	**AVERAGE**	**0.58**	**1.06**	**1.85**
1977	**AVERAGE**	**0.79**	**1.33**	**2.26**
1978	**AVERAGE**	**0.91**	**1.48**	**2.63**
1979	**AVERAGE**	**1.18**	**1.80**	**3.23**
1980	**AVERAGE**	**1.59**	**2.28**	**3.95**
1981	January	1.77	2.51	4.10
	February	1.81	2.67	4.13
	March	1.86	2.71	4.21
	April	1.93	2.81	4.25
	May	1.95	2.92	4.61
	June	1.95	2.95	4.61
	July	2.01	2.97	4.64
	August	2.02	2.99	4.70
	September	2.08	2.95	4.90
	October	2.11	3.07	4.91
	November	2.15	3.07	4.88
	December	2.16	2.97	4.75
	AVERAGE	**1.98**	**2.91**	**4.56**
1982	January	2.21	3.07	4.86
	February	2.23	3.18	4.87
	March	2.31	3.25	5.06
	April	2.35	3.32	5.18
	May	2.41	3.42	5.63
	June	2.44	3.57	5.62
	July	2.45	3.69	5.60
	August	2.51	3.67	5.56
	September	2.54	3.67	5.82
	October	2.56	3.68	6.11
	November	2.59	3.61	5.94
	December	2.60	3.64	6.06
	AVERAGE	**2.43**	**3.49**	**5.53**
1983	January	2.62	[1]3.57	6.15
	February	2.65	3.41	6.15

Geographic coverage: the 50 United States and the District of Columbia.
[1]Includes all steam and gas turbine engine electric utility generating plants with a combined capacity of 25 megawatts or greater through December 1982. Beginning with January 1983 data, coverage is of steam electric utility generating plants with a combined capacity of 50 megawatts or greater. Small quantities of coke oven gas, refinery gas, and blast furnace gas are included.
Sources: • See the last two pages of this section.

Price

Electricity

		Cost of Fossil Fuels Delivered to Steam-Electric Utility Plants				Average Retail Electricity Prices for Privately Owned Utilities[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	**AVERAGE**	**122.4**	**299.7**	**175.4**	**162.1**	**4.64**	**4.68**	**3.05**	**3.96**	**3.99**
1980	**AVERAGE**	**135.1**	**427.9**	**221.4**	**190.4**	**5.36**	**5.48**	**3.69**	**4.76**	**4.73**
1981	January	142.7	540.2	245.9	219.2	5.43	5.72	3.94	4.92	4.96
	February	146.3	572.9	260.5	218.2	5.52	5.83	3.95	5.01	4.99
	March	148.3	583.9	264.0	215.0	5.76	6.01	4.04	5.33	5.12
	April	146.9	568.3	273.5	241.9	5.99	6.14	4.07	5.20	5.20
	May	146.7	552.8	282.7	250.6	6.26	6.29	4.16	5.47	5.36
	June	152.7	506.1	286.3	234.6	6.49	6.48	4.36	5.37	5.59
	July	156.5	496.3	288.6	227.5	6.58	6.47	4.48	5.61	5.76
	August	157.0	494.4	291.1	220.2	6.62	6.49	4.49	5.52	5.78
	September	157.2	501.0	286.5	212.3	6.63	6.48	4.49	5.65	5.74
	October	160.2	511.9	300.7	217.7	6.57	6.52	4.40	5.31	5.64
	November	159.1	521.0	300.0	215.1	6.42	6.48	4.46	5.43	5.61
	December	156.7	505.0	291.4	215.5	6.32	6.46	4.56	[5]4.60	5.65
	AVERAGE	**153.2**	**529.4**	**282.5**	**222.5**	**6.20**	**6.29**	**4.29**	**5.28**	**5.46**
1982	January	R160.9	484.6	301.0	R226.4	6.22	6.49	4.66	5.44	5.74
	February	164.1	487.6	310.4	R220.7	6.35	6.68	4.70	5.83	5.84
	March	R165.7	470.9	315.8	219.8	6.58	6.79	4.83	R6.38	5.97
	April	164.6	478.0	R323.4	214.3	6.72	6.82	4.84	5.77	5.99
	May	R165.1	R485.7	331.6	215.7	6.94	6.86	4.95	5.91	6.09
	June	167.0	479.6	345.8	224.7	7.08	6.94	4.92	6.01	6.18
	July	R164.5	468.8	R335.9	237.6	7.18	6.98	5.12	6.13	6.38
	August	164.7	458.8	355.7	227.6	7.22	6.91	5.14	6.09	6.40
	September	165.9	464.4	358.5	226.9	7.18	6.97	5.25	6.07	6.41
	October	R164.9	479.3	360.4	R220.1	7.21	7.09	5.09	5.81	6.33
	November	R165.3	R493.4	351.5	R218.2	6.94	7.04	4.88	5.69	6.14
	December	R162.9	R456.3	R355.4	R216.8	6.71	6.78	5.01	5.85	6.11
	AVERAGE	**R164.7**	**R475.5**	**R340.6**	**R222.5**	**6.86**	**6.86**	**4.95**	**5.92**	**6.13**
1983	January	166.7	444.0	346.9	214.6	6.65	6.78	5.03	5.91	6.13
	February	167.7	439.7	331.9	212.1	6.73	6.86	4.96	5.97	6.12
	March†	NA	NA	NA	NA	6.93	6.93	5.07	6.16	6.23

Geographic coverage: Fossil Fuels—the lower 48 States and the District of Columbia. Electricity—the 50 United States and the District of Columbia.
[1]The 1973 through 1979 data are for Classes A and B privately owned electric utilities only. The 1980 and forward data are for selected Class A utilities whose electric operating revenues were $100 million or more during the previous year.
[2]See Note 8 on the last two pages of this section.
[3]Includes small quantities of coke oven gas, refinery gas, and blast furnace gas.
[4]Average price for total sales to ultimate consumers.
[5]Includes a major adjustment by one utility.
†Preliminary data. R=Revised data. NA=Not available.
Sources: • See the last two pages of this section.

Notes and Sources for the Price Section

Notes

1. The actual domestic average price represents the average price at which all domestic crude oil is purchased. Prior to February 1976, the domestic crude oil wellhead price represented an estimate of the average of posted prices; after February 1976, the wellhead price represents an average of first sale prices.
2. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on EIA Form 14, the "Refiners' Monthly Cost Report." These prices were previously published from data collected on ERA Form 49, the "Domestic Crude Oil Entitlements Program Refiners Monthly Report." The ERA Form 49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for EIA Form 14 in accordance with conventions used for ERA Form 49. Also, the respondents for the two forms are essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken in comparing the data collected on the two forms.

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

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

Crude oil costs and volumes reported on ERA Form 49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported on the FEA Form P110-M-1 included unfinished oils but excluded SPR. Imported averages derived from ERA Form 49 exclude oil purchased for SPR, whereas the composite averages derived from ERA Form 49 include SPR. None of the prices derived from EIA Form 14 include either unfinished oils or SPR.
3. FOB literally means "Free on Board." It denotes a transaction whereby the seller makes the product available with an agreement on a given port at a given price; it is the responsibility of the buyer to arrange for the transportation and insurance.
4. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to March 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in March 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.
5. The motor gasoline prices are calculated monthly by the Bureau of Labor Statistics in conjunction with the construction of the Consumer Price Index (CPI). For the period 1974 through 1978, prices were collected in 56 urban areas. For the period 1978 forward, prices were collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-serve).
6. The survey and method used to derive data for March 1976 forward differ from those used for prior months. Data for January 1974 through February 1976 are derived from a survey of distributors, and prices and margins are computed as unweighted averages. The average distributor purchase price and average dealer margin for March 1976 forward are for distributors only, whereas the average selling price includes both refiners and distributors. Data for March 1976 forward are computed as sales weighted averages.
7. Standard Federal Regions are defined as follows:
Region 1 —Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island;
Region 2 —New York, New Jersey, Puerto Rico, Virgin Islands;
Region 3 —Pennsylvania, Maryland, West Virginia, Virginia, the District of Columbia, Delaware;
Region 4 —Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone;
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.
8. Residual fuel oil prices include fuel oils No. 4, No. 5, and No. 6, and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (No. 2 fuel oil, kerosene, and jet fuel) prices.

Sources

Petroleum and Petroleum Products: • Actual domestic average wellhead prices—Economic Regulatory Administration (ERA), January 1976: FEA Form 90, "Crude Petroleum Production Monthly Report"; February 1976 forward: ERA Form 182, "Domestic Crude Oil First Purchase Report."
• Refiner acquisition costs—Energy Information Administration (EIA), January 1976: FEO Form 96, "Monthly Cost Allocation Report"; February 1976 through June 1978: FEA Form P110-M-1, "Refiners' Monthly Cost Allocation Report"; July 1978 through December 1980: ERA Form 49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report"; January 1981 forward: EIA Form 14, "Refiners' Monthly Cost Report."
• No. 6 residual oil prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."
• No. 2 diesel prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

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

Notes and Sources for the Price Section (continued)

Petroleum and Petroleum Products (continued):
• No. 2 heating oil (residential heating oil) prices-EIA, 1976 through October 1980: FEA Form P112-M-1/EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report" and EIA Form 9A, "No. 2 Distillate Price Monitoring Report"; November 1980 forward: EIA Form 9A, "No. 2 Distillate Price Monitoring Report."
• Motor gasoline prices—Bureau of Labor Statistics.
• Propane and butane prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."
• Crude oil imports costs—Environmental Protection, Safety and Emergency Preparedness, 1975 through January 1979: FEA Form F701-M-0, "Transfer Pricing Report"; February 1979 forward: ERA Form 51, "Transfer Pricing Report."
• Aviation fuel prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."
Natural Gas: • Annual data for wellhead values are from the appropriate agencies of the individual producing States and the U.S. Minerals Management Service; monthly data are estimated primarily on the basis of values reported by State agencies in New Mexico, Oklahoma, and Texas, which together provide data for almost 50 percent of total U.S. marketed production excluding nonhydrocarbon gases removed. Monthly data for 1980 and 1981 have been adjusted to conform with final reported annual data.
• Electric plant data—Energy Information Administration (EIA), FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."
• Average residential heating prices—Bureau of Labor Statistics.
Electricity: • Cost of fossil fuels—EIA, FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."
• Retail prices—EIA, January 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: FERC Form 5, "Electric Utility Company Monthly Statement."

International

Crude Oil Production

World crude oil production during February 1983 was 49.7 million barrels per day, down 2.2 million barrels per day (4.2 percent) from the January 1983 level.

Organization of Petroleum Exporting Countries (OPEC) output during February 1983 averaged 14.6 million barrels per day, down 2.0 million barrels per day from the previous month. Average production by Arab members of OPEC was 8.3 million barrels per day, down 1.0 million barrels per day from the January 1983 level. There were production decreases in every Arab OPEC country except Iraq and the United Arab Emirates, which reported the same level of production as the previous month's average, and Kuwait, which reported a 0.1 million barrel per day increase. Saudi Arabia experienced the largest decline in production, 0.7 million barrels per day, followed by Libya and Algeria with decreases of 0.2 and 0.1 million barrels per day, respectively.

Of the non-OPEC nations, Mexico showed the most significant change in crude oil production in February 1983, a decrease of 0.7 million barrels per day from the level of the month before. Production levels in Canada and the United Kingdom increased by 0.1 and 0.2 million barrels per day, respectively, during February 1983.

Petroleum Consumption

Preliminary petroleum consumption data for February 1983 were available for France, Italy, and the United States. In comparison to February 1982, consumption in France and Italy increased by 0.2 and 0.1 million barrels per day, respectively. U.S. consumption was down 1.2 million barrels per day.

Petroleum consumption by International Energy Agency (IEA) member nations averaged 29.9 million barrels per day for the year 1982. This preliminary average was 1.4 million barrels per day below the average daily rate in 1981.

Petroleum Stocks

Preliminary data on petroleum stocks for February 1983 were available for Canada, France, Italy, Japan, the United Kingdom, the United States, and West Germany. Petroleum stocks in Canada and France were down from the February 28, 1982, level by 14.7 and 13.0 percent, respectively. Japan and West Germany showed declines of 2.2 and 2.1 percent, respectively. Italy and the United States reported about the same level of stocks for February 1982 and 1983.

Petroleum stocks for all Organization for Economic Cooperation and Development members were 3,350 million barrels on September 30, 1982 (latest data available), 277 million barrels (7.6 percent) less than stocks held on September 30, 1981.

Nuclear Electricity Production

In March 1983, the 19 non-Communist nations with significant nuclear power capacity generated 71.7 billion gross kilowatt-hours of nuclear-based electricity. On a per-day basis, this output was down 2.7 percent from February 1983 generation, but up 6.9 percent compared to generation during March 1982.

In March 1983, Dungeness B, a 660-gross megawatt advanced gas-cooled reactor in the United Kingdom, generated its first electricity. With the addition of this unit, there were, as of March 31, 1983, 238 operational, non-Communist power reactors, with a collective generating capacity of 163.3 million gross kilowatts (GWe). The 80 U.S. units accounted for 67.8 GWe (41.5 percent) of this capacity.

Nuclear-based electricity generation in West Germany in 1982 increased by 19.2 percent, due in part to the addition of Grafenrheinfeld, a 1,290-gross megawatt pressurized water reactor (PWR), and to high annual capacity factors (ranging from 71 to 92 percent) among all seven West German PWRs.

International

Crude Oil Production for Major Petroleum Producing Countries

		Algeria	Iraq	Kuwait[1]	Libya	Qatar	Saudi Arabia[1]	United Arab Emirates	Arab Members of OPEC[2]	Indonesia	Iran
		Thousand barrels per day									
1973	**AVERAGE**	**1,097**	**2,018**	**3,020**	**2,175**	**570**	**7,596**	**1,533**	**18,009**	**1,339**	**5,861**
1974	**AVERAGE**	**1,009**	**1,971**	**2,546**	**1,521**	**518**	**8,480**	**1,679**	**17,724**	**1,375**	**6,022**
1975	**AVERAGE**	**983**	**2,262**	**2,084**	**1,480**	**438**	**7,075**	**1,664**	**15,986**	**1,307**	**5,350**
1976	**AVERAGE**	**1,075**	**2,415**	**2,145**	**1,933**	**497**	**8,577**	**1,936**	**18,578**	**1,504**	**5,883**
1977	**AVERAGE**	**1,152**	**2,348**	**1,969**	**2,063**	**445**	**9,245**	**1,999**	**19,221**	**1,686**	**5,663**
1978	**AVERAGE**	**1,161**	**2,563**	**2,131**	**1,983**	**487**	**8,301**	**1,831**	**18,457**	**1,635**	**5,242**
1979	**AVERAGE**	**1,154**	**3,477**	**2,500**	**2,092**	**508**	**9,532**	**1,831**	**21,094**	**1,591**	**3,168**
1980	**AVERAGE**	**1,012**	**2,514**	**1,656**	**1,787**	**472**	**9,900**	**1,709**	**19,050**	**1,577**	**1,662**
1981	January	950	600	1,765	1,600	505	10,265	1,620	17,305	1,630	1,600
	February	950	700	1,565	1,650	480	10,265	1,605	17,215	1,620	1,700
	March	950	1,000	1,560	1,600	505	10,110	1,610	17,335	1,635	1,700
	April	900	1,000	995	1,600	515	10,195	1,570	16,775	1,630	1,600
	May	900	1,000	990	1,400	435	10,140	1,550	16,415	1,600	1,500
	June	800	1,000	1,080	1,200	340	10,180	1,435	16,035	1,600	1,600
	July	725	1,100	1,200	750	380	10,170	1,415	15,740	1,600	1,400
	August	600	1,100	830	700	295	10,330	1,480	15,335	1,600	1,100
	September	550	1,100	855	700	365	9,155	1,465	14,190	1,600	1,100
	October	700	1,100	985	700	360	9,685	1,480	15,010	1,600	920
	November	750	1,100	890	900	340	8,640	1,365	13,985	1,600	930
	December	800	1,100	895	1,000	340	8,645	1,430	14,210	1,580	1,200
	AVERAGE	**805**	**1,000**	**1,125**	**1,140**	**405**	**9,815**	**1,474**	**15,764**	**1,605**	**1,380**
1982	January	800	1,500	805	1,000	405	8,655	1,450	14,615	1,490	1,100
	February	700	1,500	840	600	375	8,440	1,375	13,830	1,450	1,200
	March	600	1,500	745	600	300	7,145	1,365	12,255	1,400	1,800
	April	600	900	680	700	230	6,630	1,215	10,955	1,245	1,800
	May	620	750	720	800	320	5,870	1,125	10,205	1,240	2,500
	June	650	750	840	1,000	410	6,670	1,210	11,530	1,305	2,500
	July	650	800	870	1,300	275	6,170	1,160	11,225	1,305	2,500
	August	700	800	920	1,300	340	5,920	1,155	11,135	1,240	2,200
	September	800	800	885	1,400	285	5,685	1,155	11,010	1,300	2,700
	October	800	800	860	1,700	380	5,660	1,155	11,355	1,370	2,700
	November	800	800	915	1,700	310	5,615	1,155	11,295	1,400	2,700
	December	800	800	850	1,750	305	5,250	1,155	10,910	1,360	2,800
	AVERAGE	**710**	**972**	**827**	**1,158**	**328**	**6,470**	**1,214**	**11,679**	**1,339**	**2,214**
1983	January	700	800	800	1,100	255	4,650	1,030	9,335	1,300	2,700
	February	600	800	905	900	200	3,905	1,030	8,340	1,000	2,500

U.S. geographic coverage: the 50 United States and the District of Columbia.
Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.
[1]Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In February 1983, total production in this region amounted to approximately 210,000 barrels per day.
[2]Arab members of the Organization of Petroleum Exporting Countries (OPEC) include Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and the United Arab Emirates.
Additional footnotes on following page.

International

Crude Oil Production for Major Petroleum Producing Countries (continued)

		Nigeria	Vene-zuela	Total OPEC[3]	Canada	Mexico	United Kingdom	United States	China	USSR	Other[4]	World
						Thousand barrels per day						
1973	**AVERAGE**	**2,054**	**3,366**	**30,989**	**1,800**	**465**	**2**	**9,208**	**1,090**	**8,465**	**3,655**	**55,674**
1974	**AVERAGE**	**2,255**	**2,976**	**30,729**	**1,684**	**571**	**2**	**8,774**	**1,315**	**9,000**	**3,777**	**55,852**
1975	**AVERAGE**	**1,783**	**2,346**	**27,155**	**1,439**	**705**	**12**	**8,375**	**1,490**	**9,625**	**4,079**	**52,880**
1976	**AVERAGE**	**2,067**	**2,294**	**30,738**	**1,295**	**831**	**245**	**8,132**	**1,670**	**10,143**	**4,258**	**57,312**
1977	**AVERAGE**	**2,085**	**2,238**	**31,278**	**1,320**	**981**	**768**	**8,245**	**1,874**	**10,682**	**4,537**	**59,685**
1978	**AVERAGE**	**1,897**	**2,166**	**29,805**	**1,313**	**1,209**	**1,082**	**8,707**	**2,082**	**11,185**	**4,674**	**60,057**
1979	**AVERAGE**	**2,302**	**2,356**	**30,928**	**1,496**	**1,461**	**1,568**	**8,552**	**2,122**	**11,460**	**4,948**	**62,535**
1980	**AVERAGE**	**2,055**	**2,168**	**26,890**	**1,435**	**1,936**	**1,622**	**8,597**	**2,114**	**11,773**	**5,171**	**59,538**
1981	January	1,900	2,220	25,025	1,390	2,220	1,765	8,540	2,024	11,900	5,111	57,975
	February	1,960	2,195	25,075	1,390	2,120	1,820	8,604	2,025	11,900	5,161	58,095
	March	1,875	2,240	25,190	1,280	2,365	1,885	8,613	2,025	11,900	5,152	58,410
	April	1,625	2,200	24,215	1,330	2,540	1,750	8,557	2,011	11,900	5,122	57,425
	May	1,295	2,200	23,380	1,250	2,545	1,770	8,501	2,025	11,900	5,264	56,635
	June	1,350	1,990	22,945	1,235	2,300	1,765	8,629	2,025	11,900	5,066	55,865
	July	770	1,760	21,620	1,270	2,095	1,750	8,500	2,010	11,900	5,215	54,360
	August	710	1,960	21,050	1,235	2,260	1,760	8,583	2,020	11,900	4,962	53,770
	September	1,065	2,080	20,385	1,265	2,480	1,830	8,604	1,990	11,900	5,166	53,620
	October	1,250	1,970	21,200	1,120	2,490	1,845	8,563	2,020	11,900	5,247	54,385
	November	1,590	2,230	20,575	1,280	2,090	1,840	8,586	2,020	11,900	5,109	53,400
	December	1,820	2,260	21,230	1,380	1,980	1,870	8,585	2,020	11,900	5,135	54,100
	AVERAGE	**1,433**	**2,102**	**22,624**	**1,285**	**2,313**	**1,811**	**8,572**	**2,012**	**11,909**	**5,262**	**55,788**
1982	January	1,765	1,985	21,285	1,218	2,315	1,905	8,669	2,020	11,900	5,488	54,800
	February	1,395	1,730	19,950	1,275	2,550	1,955	8,690	2,020	11,900	5,560	53,900
	March	945	1,870	18,615	1,182	2,545	2,000	8,597	2,020	11,900	5,341	52,200
	April	890	1,490	16,725	928	2,780	2,110	8,652	2,025	11,900	5,480	50,600
	May	1,310	1,480	17,075	1,114	2,715	2,085	8,660	2,025	11,900	5,526	51,100
	June	1,645	1,500	18,845	1,330	2,790	2,140	8,681	2,025	11,900	5,489	53,200
	July	1,280	1,800	18,450	1,235	2,790	2,120	8,649	2,025	12,000	5,506	52,775
	August	1,105	2,000	18,045	1,300	2,795	2,125	8,701	2,025	12,000	5,549	52,540
	September	1,170	1,990	18,515	1,300	2,830	2,175	8,733	2,025	12,000	5,497	53,075
	October	1,480	2,160	19,430	1,310	2,900	2,165	8,676	2,040	12,410	5,489	54,420
	November	1,355	2,300	19,415	1,420	2,940	2,220	8,690	2,040	12,410	5,685	54,820
	December	1,215	2,325	18,985	1,300	3,025	2,315	8,660	2,040	12,410	5,730	54,465
	AVERAGE	**1,295**	**1,891**	**18,780**	**1,241**	**2,749**	**2,117**	**8,671**	**2,029**	**12,053**	**5,550**	**53,190**
1983	January	880	2,085	16,650	1,230	2,980	2,110	8,634	2,085	12,410	5,766	51,865
	February	675	1,780	14,635	1,360	2,295	2,290	8,660	2,085	12,410	5,950	49,685

Footnotes continued.
[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.
Sources: • See the last page of this section.

International

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

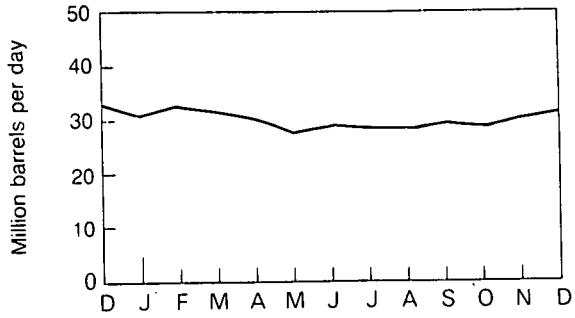
		Canada	France[2]	Italy	Japan	United Kingdom	United States	West Germany	Other IEA[3]	Total IEA[4]
						Thousand barrels per day				
1973	**AVERAGE**	**1,597**	**2,219**	**1,525**	**5,000**	**1,958**	**17,308**	**2,693**	**4,069**	**34,150**
1974	**AVERAGE**	**1,630**	**2,094**	**1,521**	**4,872**	**1,829**	**16,653**	**2,408**	**4,047**	**32,960**
1975	**AVERAGE**	**1,595**	**1,925**	**1,468**	**4,568**	**1,633**	**16,322**	**2,319**	**3,905**	**31,810**
1976	**AVERAGE**	**1,647**	**2,075**	**1,503**	**4,786**	**1,601**	**17,461**	**2,507**	**4,265**	**33,770**
1977	**AVERAGE**	**1,661**	**1,973**	**1,476**	**5,015**	**1,655**	**18,431**	**2,478**	**4,214**	**34,930**
1978	**AVERAGE**	**1,701**	**2,077**	**1,551**	**5,115**	**1,683**	**18,847**	**2,596**	**4,387**	**35,880**
1979	**AVERAGE**	**1,766**	**2,107**	**1,607**	**5,173**	**1,690**	**18,513**	**2,664**	**4,487**	**35,900**
1980	**AVERAGE**	**1,730**	**1,965**	**1,602**	**4,680**	**1,420**	**17,056**	**2,360**	**4,152**	**33,000**
1981	January	1,760	2,310	1,880	4,980	1,400	18,430	2,230	4,420	35,100
	February	1,770	2,170	2,195	5,350	1,460	16,989	2,510	4,126	34,400
	March	1,550	1,790	1,895	5,020	1,430	15,907	2,100	3,598	31,500
	April	1,600	1,500	1,785	4,140	1,290	15,350	1,810	3,925	29,900
	May	1,490	1,670	1,410	3,600	1,190	15,353	1,880	3,977	28,900
	June	1,635	1,600	1,510	3,915	1,210	16,095	2,155	3,880	30,400
	July	1,620	1,450	1,580	4,160	1,170	15,682	2,150	4,138	30,500
	August	1,630	1,160	1,360	4,100	1,125	15,263	2,111	3,711	29,300
	September	1,595	1,425	1,715	4,060	1,285	15,655	2,085	3,905	30,300
	October	1,585	1,655	1,600	4,085	1,390	15,822	2,305	4,013	30,800
	November	1,595	2,010	1,650	4,610	1,470	15,593	2,030	4,052	31,000
	December	1,635	2,215	1,930	5,425	1,380	16,596	2,100	3,934	33,000
	AVERAGE	**1,615**	**1,745**	**1,705**	**4,445**	**1,325**	**16,058**	**2,120**	**4,032**	**31,300**
1982	January	1,530	1,770	1,800	4,645	1,400	15,890	1,935	3,800	31,000
	February	1,715	1,815	1,795	5,275	1,465	15,941	2,230	4,179	32,600
	March	1,510	1,940	1,805	4,640	1,560	15,560	2,340	4,185	31,600
	April	1,350	1,730	1,560	4,015	1,340	16,048	2,125	3,962	30,400
	May	1,325	1,580	1,510	3,515	1,210	14,845	1,770	3,625	27,800
	June	1,430	1,505	1,520	3,780	1,280	14,931	2,115	3,704	28,900
	July	1,390	1,455	1,475	3,995	1,235	14,771	1,955	3,679	28,500
	August	1,500	1,295	1,410	3,705	1,170	14,838	2,105	3,672	28,400
	September	1,410	1,510	1,630	3,865	1,295	14,921	2,035	4,044	29,200
	October	1,335	1,605	1,555	3,830	1,305	14,820	1,922	3,933	28,700
	November	1,470	1,735	1,650	4,355	1,415	15,031	2,005	4,174	30,100
	December	1,460	1,815	1,670	4,810	1,380	15,508	2,025	4,347	31,200
	AVERAGE	**1,450**	**1,645**	**1,614**	**4,196**	**1,337**	**15,253**	**2,045**	**4,005**	**29,900**
1983	January	1,260	1,685	1,675	NA	1,260	14,765	NA	NA	NA
	February	NA	1,985	1,865	NA	NA	14,772	NA	NA	NA

U.S. geographic coverage: the 50 United States and the 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 IEA are listed in Note 1 on the last page of this section.
NA = Not available.
Note: Data for 1980 through 1983 are preliminary.
Sources: • See the last page of this section.

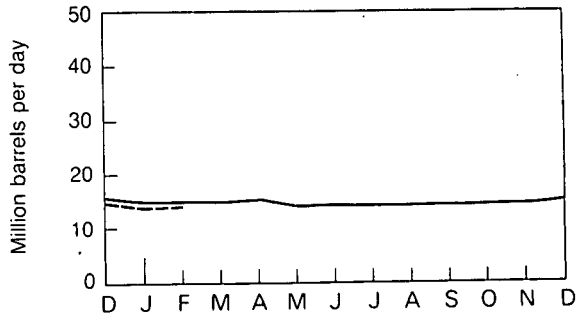
International

Petroleum Consumption

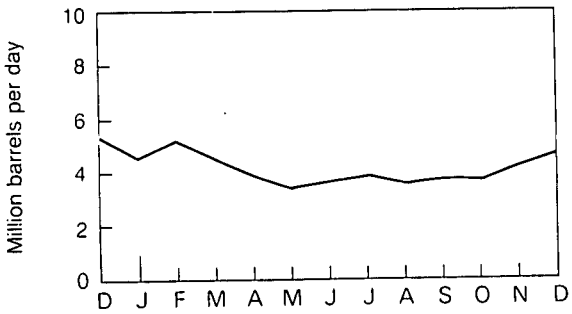
Total IEA



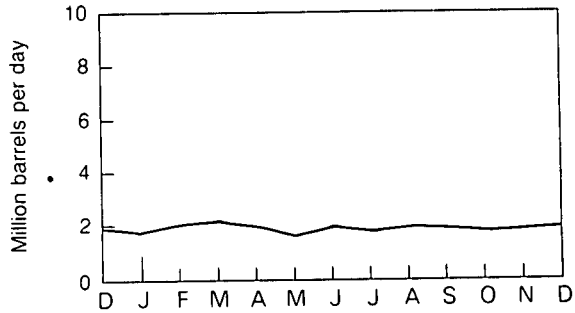
United States



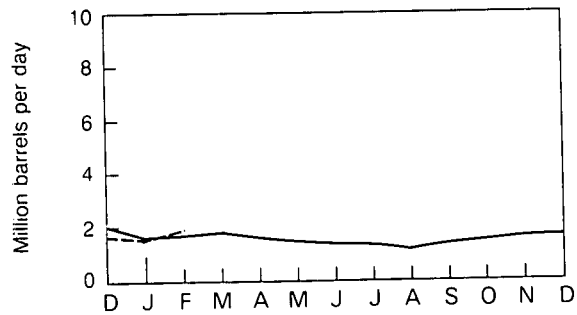
Japan*



West Germany



France**



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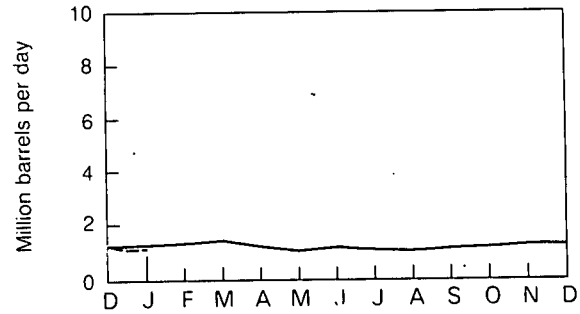

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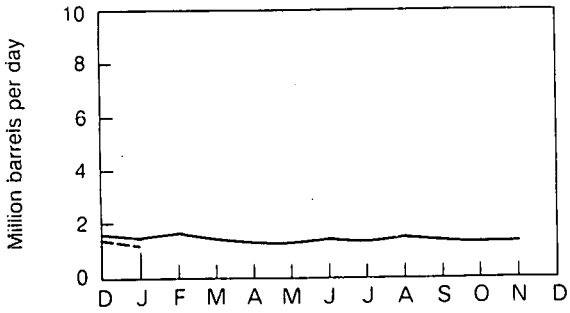
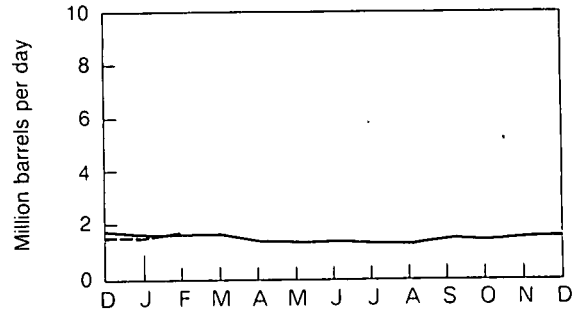


Italy***



*Excludes liquefied petroleum gases and condensates.

**Not a member of IEA.

***Principal products only.

——— 1982

- - - - 1983

International

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

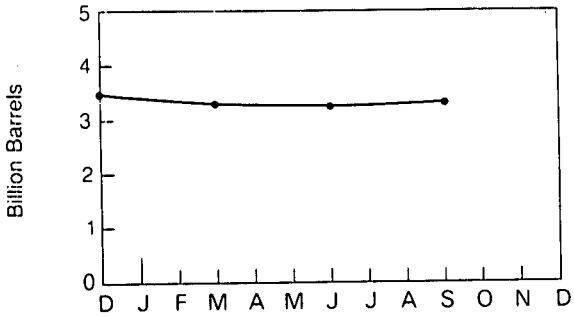
		Canada	France	Italy	Japan	United Kingdom	United States	West Germany	Other OECD[2]	Total OECD[3]
						Million barrels				
1973		**149**	**203**	**NA**	**303**	**156**	**1,008**	**NA**	**NA**	**NA**
1974		**164**	**240**	**169**	**370**	**191**	**1,074**	**215**	**NA**	**NA**
1975		**167**	**239**	**143**	**375**	**164**	**1,133**	**190**	**NA**	**NA**
1976		**156**	**231**	**142**	**394**	**165**	**1,112**	**214**	**NA**	**NA**
1977		**170**	**241**	**162**	**399**	**147**	**1,312**	**236**	**485**	**3,152**
1978		**148**	**214**	**153**	**422**	**147**	**1,278**	**239**	**487**	**3,089**
1979		**156**	**231**	**163**	**457**	**163**	**1,341**	**273**	**574**	**3,358**
1980		**171**	**254**	**173**	**481**	**169**	**1,392**	**323**	**610**	**3,573**
1981	January	169	234	155	479	168	1,388	319	NA	NA
	February	162	235	184	457	170	1,389	312	NA	NA
	March	165	227	158	452	164	1,401	317	581	3,465
	April	174	235	169	484	165	1,415	322	NA	NA
	May	176	229	173	496	162	1,438	321	NA	NA
	June	179	225	171	484	158	1,430	312	598	3,557
	July	179	228	177	476	153	1,439	305	NA	NA
	August	184	233	189	483	151	1,457	308	NA	NA
	September	181	241	187	493	151	1,476	307	591	3,627
	October	172	238	188	500	149	1,485	303	NA	NA
	November	163	230	178	483	147	1,501	300	NA	NA
	December	164	222	167	466	145	1,484	297	575	3,520
1982	January	163	222	165	464	NA	1,461	280	NA	NA
	February	156	215	162	460	NA	1,431	280	NA	NA
	March	149	207	158	480	133	1,401	279	524	3,331
	April	148	201	154	483	NA	1,350	312	NA	NA
	May	147	193	154	484	NA	1,349	310	NA	NA
	June	131	200	156	478	141	1,362	288	541	3,297
	July	130	205	160	460	134	1,394	286	NA	NA
	August	137	207	179	470	139	1,407	311	NA	NA
	September	136	212	179	458	134	1,415	280	536	3,350
	October	135	212	177	471	135	1,434	279	NA	NA
	November	138	213	174	472	130	1,455	280	NA	NA
	December	138	201	170	478	124	1,429	275	NA	NA
1983	January	136	206	170	473	125	1,453	274	NA	NA
	February	133	187	163	450	121	1,432	274	NA	NA

U.S. geographic coverage: the 50 United States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
[1]Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined products. Petroleum stocks include all nonmilitary petroleum held for storage, regardless of ownership, within each country in bulk terminals, refinery tanks, pipeline tankage, intercoastal tankers, tankers in port, and inland ship bunkers. Data exclude oil held in pipelines (except for the United States), rail and truck cars, sea-going ships' bunkers, service stations, retail stores, and tankers at sea.
[2]"Other OECD" includes Organization of Economic Cooperation and Development (OECD) members not shown.
[3]The members of OECD are listed in Note 2 on the last page of this section.
NA=Not available.
Sources: • See the last page of this section.

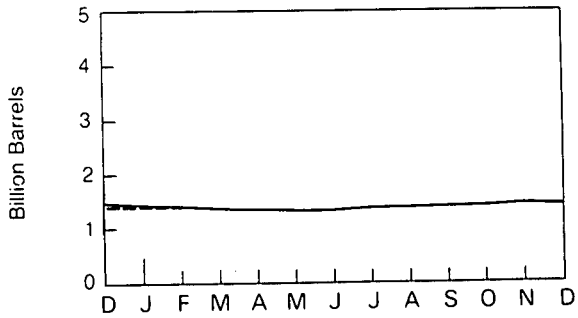
International

Petroleum Stocks

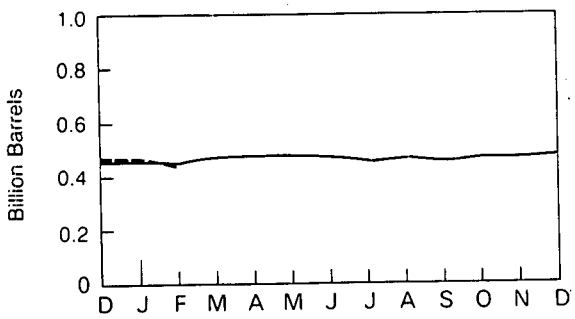
Total OECD



United States



Japan



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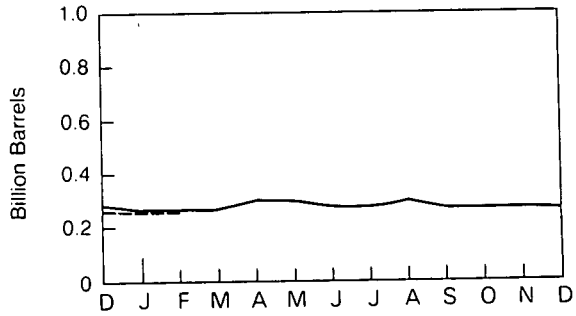
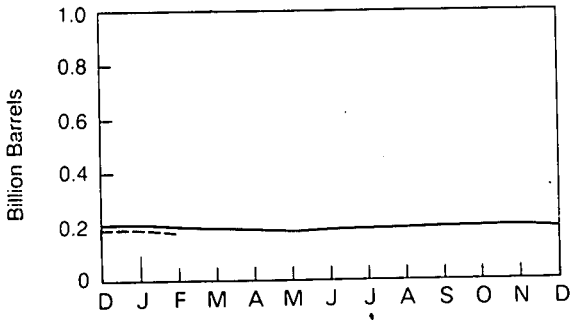


France



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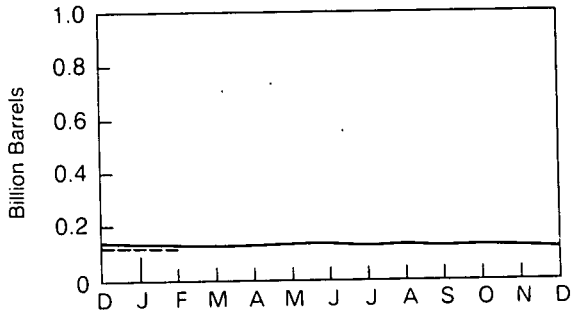
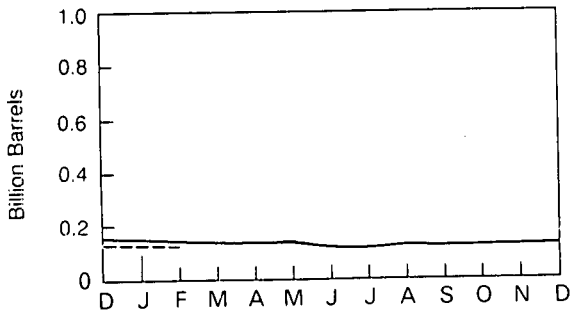


Canada



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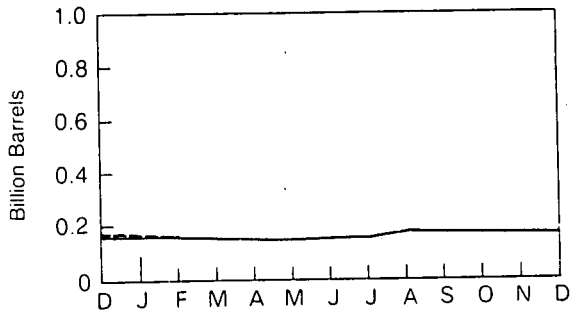

International

Nuclear Electricity Generation by Non-Communist Countries[1]

		Argentina	Belgium	Brazil	Canada	Finland	France	India	Italy	Japan	Netherlands	Pakistan
		Billion gross kilowatt-hours										
1973	**TOTAL**	**0**	**0**	**0**	**18.3**	**0**	**11.6**	**1.9**	**3.1**	**9.4**	**1.1**	**0.5**
1974	**TOTAL**	**1.0**	**0.1**	**0**	**15.4**	**0**	**14.7**	**2.5**	**3.4**	**18.1**	**3.3**	**0.6**
1975	**TOTAL**	**2.5**	**6.8**	**0**	**13.2**	**0**	**18.3**	**2.5**	**3.8**	**22.2**	**3.3**	**0.5**
1976	**TOTAL**	**2.6**	**10.0**	**0**	**18.0**	**0**	**15.8**	**3.2**	**3.8**	**36.7**	**3.9**	**0.5**
1977	**TOTAL**	**1.6**	**11.9**	**0**	**26.8**	**2.7**	**17.9**	**2.8**	**3.4**	**28.1**	**3.7**	**0.3**
1978	**TOTAL**	**2.9**	**12.5**	**0**	**32.9**	**3.3**	**30.5**	**2.3**	**4.4**	**53.2**	**4.1**	**0.2**
1979	**TOTAL**	**2.7**	**11.4**	**0**	**38.4**	**6.7**	**39.9**	**3.2**	**2.6**	**62.0**	**3.5**	**(s)**
1980	**TOTAL**	**2.3**	**12.5**	**0**	**40.4**	**7.0**	**61.2**	**2.9**	**2.2**	**82.8**	**4.2**	**0.1**
1981	January	0.3	1.2	0	3.2	1.3	9.3	0.2	0.2	8.2	0.1	(s)
	February	0.2	1.0	0	3.5	0.9	8.6	0.2	0.3	7.1	(s)	(s)
	March	0.3	0.6	0	3.9	1.4	8.8	0.3	0.1	7.8	0.3	0
	April	0.2	0.7	0	3.3	1.5	8.3	0.3	0.6	7.9	0.4	0
	May	0.2	1.2	0	3.4	1.0	8.9	0.4	0.3	8.0	0.4	(s)
	June	0.2	1.2	0	3.6	0.7	8.3	0.3	0.1	6.7	0.4	(s)
	July	0.3	1.3	0	4.0	0.8	8.4	0.3	0.3	8.3	0.4	(s)
	August	0.2	1.2	0	4.0	1.4	7.7	0.2	0.1	8.5	0.4	(s)
	September	0.3	0.9	0	3.3	1.5	8.5	0.2	0.1	6.4	0.4	(s)
	October	0.2	1.0	0	3.4	1.4	8.1	0.2	0.1	5.6	0.4	(s)
	November	0.2	1.3	0	3.5	1.3	9.3	0.2	0.1	5.3	0.4	(s)
	December	0.2	1.3	0	4.1	1.2	11.0	0.3	0.4	6.1	0.3	(s)
	TOTAL	**2.8**	**12.8**	**0**	**43.3**	**14.5**	**105.2**	**3.1**	**2.7**	**86.0**	**3.7**	**0.2**
1982	January	0.3	1.3	0	4.1	1.5	11.0	0.2	0.6	8.1	0.4	(s)
	February	0.2	0.8	0	3.2	1.5	10.0	0.2	0.7	7.7	0.1	(s)
	March	0.3	0.5	0	3.5	1.7	10.6	0.2	0.7	9.2	(s)	0
	April	0.3	1.0	(s)	3.7	1.6	10.1	0.2	0.5	9.7	0.3	0
	May	0.3	1.3	(s)	3.1	1.3	9.0	0.2	0.7	9.5	0.4	0
	June	0.3	1.2	(s)	3.3	0.9	7.8	0.1	0.6	9.5	0.4	0
	July	0.2	1.3	0	3.6	1.2	8.3	0.1	0.6	9.8	0.4	0
	August	0	1.2	0	3.9	1.5	7.0	0.2	0.4	9.7	0.4	(s)
	September	(s)	0.7	0	3.2	1.5	7.2	0.1	0.6	8.0	0.4	(s)
	October	0	1.7	0	4.0	1.4	6.6	0.2	0.6	7.5	0.4	(s)
	November	(s)	1.8	0	3.3	1.3	8.3	0.3	0.3	7.8	0.4	0
	December	0.2	1.8	0	3.8	1.3	13.0	0.2	0.5	8.1	0.4	(s)
	TOTAL	**1.9**	**15.6**	**0.1**	**42.6**	**16.5**	**108.9**	**2.2**	**6.8**	**104.5**	**3.9**	**0.1**
1983	January	0.2	1.9	0	4.3	1.7	13.8	0.2	0.2	8.0	0.4	(s)
	February	0.2	R1.4	0	4.5	1.5	10.9	0.1	0.1	6.8	(s)	(s)
	March	0.2	0.7	(s)	4.6	1.6	11.3	0.2	0.1	7.9	(s)	(s)

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.
R=Revised data. (s)=Less than 0.05 billion gross kilowatt-hours.
Sources: • See the last page of this section.

International

Nuclear Electricity Generation by Non-Communist 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**	**181.7**	**334.4**
1976	**TOTAL**	**0**	**7.6**	**16.0**	**7.9**	**0**	**36.8**	**24.5**	**187.3**	**201.8**	**389.1**
1977	**TOTAL**	**0.1**	**6.5**	**19.9**	**8.1**	**0.1**	**38.1**	**35.8**	**207.8**	**263.3**	**471.0**
1978	**TOTAL**	**2.3**	**7.6**	**23.8**	**8.3**	**2.7**	**36.7**	**35.9**	**263.6**	**292.7**	**556.3**
1979	**TOTAL**	**3.2**	**6.7**	**21.0**	**11.8**	**6.3**	**38.5**	**42.2**	**300.1**	**270.6**	**570.7**
1980	**TOTAL**	**3.5**	**5.2**	**26.7**	**14.3**	**8.2**	**37.2**	**43.7**	**354.4**	**265.4**	**619.8**
1981	January	0.3	0.8	3.5	1.5	0.8	3.8	5.0	39.7	25.7	65.4
	February	0	0.6	3.6	1.4	0.7	3.4	4.6	36.2	22.6	58.8
	March	0	0.7	3.7	1.5	0.8	4.2	4.9	39.1	23.1	62.2
	April	0	0.6	3.3	1.4	0.8	2.8	4.4	36.5	21.7	58.2
	May	0.2	0.8	2.8	1.4	0.8	2.5	4.3	36.6	20.9	57.4
	June	0.4	0.8	2.8	0.7	0.8	3.3	4.1	34.5	22.6	57.1
	July	0.4	1.1	1.4	0.6	0.8	2.5	5.2	36.1	24.8	61.0
	August	0.4	1.0	2.6	1.0	0.8	2.5	3.9	36.0	28.3	64.2
	September	0.3	0.6	3.0	1.3	0.8	3.1	3.3	33.9	25.7	59.6
	October	0.3	1.2	3.3	1.5	1.2	2.7	4.0	34.7	21.6	56.3
	November	0.3	0.6	3.6	1.4	1.0	3.1	4.3	36.0	24.0	60.1
	December	0.4	0.7	4.1	1.5	1.1	4.9	5.4	43.1	27.5	70.6
	TOTAL	**2.9**	**9.4**	**37.7**	**15.2**	**10.7**	**38.9**	**53.4**	**442.4**	**288.5**	**730.9**
1982	January	0.4	1.0	4.0	1.5	0.8	3.4	5.9	44.5	27.1	71.6
	February	0.4	0.9	3.3	1.3	1.0	3.5	5.4	40.0	21.3	61.3
	March	0.4	0.5	3.8	1.5	1.0	4.1	5.3	43.2	24.0	67.1
	April	0.2	0.4	3.8	1.4	0.8	3.3	5.3	42.5	22.8	65.3
	May	0	0.5	2.5	1.2	0.8	2.6	5.6	39.0	22.8	61.8
	June	(s)	0.7	1.9	0.6	1.0	3.3	4.2	35.6	25.3	60.9
	July	0.3	0.6	1.2	0.9	1.2	3.3	4.5	37.6	26.8	64.4
	August	0.4	0.7	2.0	1.0	1.2	3.7	4.5	37.7	26.4	64.1
	September	0.4	0.7	3.7	1.2	1.3	4.2	5.4	38.6	26.7	65.3
	October	0.4	1.0	4.2	1.5	1.4	3.7	5.2	39.8	25.4	65.3
	November	0.4	0.9	4.0	1.4	1.1	3.8	5.8	41.0	24.2	65.3
	December	0.4	0.9	4.2	1.5	1.4	5.1	6.5	49.2	25.8	75.0
	TOTAL	**3.8**	**8.8**	**38.8**	**15.0**	**13.1**	**44.1**	**63.4**	**489.9**	**298.6**	**788.5**
1983	January	0.5	1.0	4.2	1.5	1.5	4.8	6.5	49.9	27.4	77.3
	February	0.4	0.9	3.7	1.4	R0.8	4.3	5.6	42.5	23.8	R66.5
	March	0.6	0.9	4.1	1.5	1.8	4.9	6.0	46.7	25.0	71.7

U.S. geographic coverage: the 50 United States and the District of Columbia.
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-, 5- or 6-week intervals, rather than by calendar month.
R=Revised data. (s)=Less than 0.05 billion gross kilowatt-hours.
Sources: • See the last page of this section.

Notes and Sources for the International Section

Notes

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

Sources

Crude Oil Production: • 1973-1981 annual data: Energy Information Administration, *1981 International Energy Annual.*
• U.S. annual and monthly data: Energy Information Administration, *Petroleum Supply Monthly.*
• 1980-1983 monthly data (except U.S. and World): Central Intelligence Agency, "International Energy Statistical Review," and other industry sources.
• 1980-1983 monthly data for World: Sum of data for all countries using above sources.
Petroleum Consumption: • Central Intelligence Agency, "International Energy Statistical Review" (except the United States).
• United States data: Energy Information Administration, *Petroleum Supply Monthly.*
• IEA totals for latest months are Energy Information Administration estimates.
Petroleum Stocks: • Canada: Energy, Mines and Resources Canada, *Energy Information Handbook;* Statistics Canada, *Refined Petroleum Products.* • France: Comite Professionel du Petrole, *Petrole 80: Activite de L'Industrie Petroliere* and *Bulletin Mensuel.* • West Germany and Italy: OECD, *Quarterly Oil Statistics* and *Monthly Oil Statistics.* • Japan: Ministry of International Trade and Industry, *Yearbook of Coal, Petroleum, and Coke Statistics 1979; Energy Production: Supply and Demand Statistics Report.* • United Kingdom: United Kingdom Department of Energy, *Digest of United Kingdom Energy Statistics 1981* and *Energy Trends;* and OECD, *Monthly Oil Statistics.* • United States: 1973 through 1979: Energy Information Administration (EIA), *Energy Data Reports,* "Petroleum Statement, Annual"; January 1980 forward: EIA, *Petroleum Supply Monthly.* • Other OECD: OECD, *Quarterly Oil Statistics.* • Total OECD: Sum of data for all OECD member countries using above sources.
Nuclear Electricity Generation: • *Nucleonics Week.*

Definitions

Anthracite

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

Bituminous Coal

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

British Thermal Unit (Btu)

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

Coke (Coal)

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

Crude Oil

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

Crude Oil Refinery Input

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

Crude Oil Stocks

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

Distillate Fuel Oil

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

Electricity Production

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

Ethane

A normally gaseous, colorless hydrocarbon (C_2H_6) produced at natural gas processing plants and refineries. It is used primarily as petrochemical feedstock for eventual production of chemicals and plastic materials.

Exports

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

Full-Serve Station

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

Imports

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

Landed Cost of Imported Crude Oil

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

imports. Coverage includes the United States and its territories.

Lease Condensate

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

Lignite

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

Liquefied Petroleum Gases

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

Line Miles of Seismic Exploration

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

Maximum Dependable Capacity, Net

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

Motor Gasoline

See Motor Gasoline, Finished, and Motor Gasoline, Total.

Motor Gasoline, Average Retail Selling Price

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

Motor Gasoline, Finished

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

Motor Gasoline, Premium Grade

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

Motor Gasoline, Regular Grade

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

Motor Gasoline, Total

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

Natural Gas

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

Natural Gas Plant Liquids

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

Petroleum

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

Petroleum Coke

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

Petroleum Products

Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, natural gasoline and isopentane, plant condensate, unfractionated stream, ethane, liquefied petroleum gases, aviation gasoline, motor gasoline,

naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, naphtha less than 400°F end-point, other oils over 400°F end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Propane

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

Refined Petroleum Product Supplied

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

Refiner Acquisition Cost

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

Residual Fuel Oil

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

Rotary Rig

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

Self-Serve Station

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

Startup Test Phase of Nuclear Powerplant

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

Stocks (Refined Petroleum Product)

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

Strategic Petroleum Reserve

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

Synthetic Natural Gas (SNG)

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

Unaccounted for Crude Oil

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

Wells, Exploratory and Development

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

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Conversion Factors

Approximate Heat Content of Various Fuels	Units	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982-83‡
Anthracite											
Production	Million Btu/short ton	23.17	22.56	23.39	22.77	23.18	23.52	23.59	23.35	23.69	23.69
Imports and exports	Million Btu/short ton	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40
Consumption, average	Million Btu/short ton	22.71	21.95	21.74	22.15	22.69	22.97	22.70	22.16	22.10	22.10
Electric utility consumption	Million Btu/short ton	17.92	17.20	17.06	17.53	17.24	17.10	17.45	17.65	18.17	18.17
Non-utility consumption	Million Btu/short ton	24.34	23.75	23.65	23.84	24.99	25.17	25.20	23.74	25.12	25.12
Bituminous coal and lignite											
Production	Million Btu/short ton	24.01	23.73	23.20	23.15	22.70	22.43	22.59	22.46	22.38	22.38
Imports	Million Btu/short ton	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
Exports	Million Btu/short ton	27.00	27.00	27.00	27.00	27.00	27.00	27.00	26.40	26.18	26.18
Consumption, average	Million Btu/short ton	23.65	23.07	22.80	22.75	22.33	22.14	22.20	22.00	21.80	21.80
Electric utility consumption	Million Btu/short ton	22.26	21.80	21.66	21.69	21.48	21.28	21.38	21.30	21.09	21.09
Non-utility consumption	Million Btu/short ton	26.84	26.12	25.81	25.87	25.13	25.07	25.06	25.06	24.96	24.96
Coal coke	Million Btu/short ton	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
Crude petroleum[1]											
Production	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800
Imports	Million Btu/barrel	5.817	5.827	5.821	5.808	5.810	5.802	5.810	5.812	5.818	5.818
Exports	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800
Crude petroleum and products											
Imports, average	Million Btu/barrel	5.897	5.884	5.858	5.856	5.834	5.839	5.810	5.796	5.795	5.775
Exports, average	Million Btu/barrel	5.752	5.774	5.748	5.745	5.797	5.808	5.832	5.820	5.821	5.821
Petroleum products											
Consumption, average	Million Btu/barrel	5.515	5.504	5.494	5.504	5.518	5.519	5.494	5.479	5.448	5.448
Residential and commercial	Million Btu/barrel	5.387	5.377	5.358	5.383	5.389	5.382	5.471	5.468	5.408	5.354
Industrial	Million Btu/barrel	5.559	5.530	5.520	5.529	5.546	5.542	5.415	5.373	5.306	5.383
Transportation	Million Btu/barrel	5.399	5.397	5.395	5.399	5.405	5.409	5.430	5.442	5.436	5.429
Electric utility	Million Btu/barrel	6.245	6.238	6.250	6.251	6.249	6.251	6.258	6.254	6.258	6.258
Imports	Million Btu/barrel	5.983	5.959	5.935	5.980	5.908	5.955	5.811	5.748	5.659	5.659
Exports	Million Btu/barrel	5.752	5.773	5.747	5.743	5.796	5.814	5.864	5.841	5.837	5.837
LPG consumption average[2]	Million Btu/barrel	3.746	3.730	3.715	3.711	3.677	3.669	3.680	3.674	3.643	3.643
Natural gas plant liquid production	Million Btu/barrel	4.049	4.011	3.984	3.964	3.941	3.925	3.955	3.914	3.930	3.930
Natural gas, dry											
Production	Btu/cubic foot	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,016	1,015	1,015
Consumption	Btu/cubic foot	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,026	1,027	1,027
Electric utility consumption	Btu/cubic foot	1,024	1,022	1,026	1,023	1,029	1,034	1,034	1,034	1,034	1,034
Non-utility consumption	Btu/cubic foot	1,020	1,024	1,020	1,019	1,019	1,016	1,018	1,024	1,025	1,025
Imports	Btu/cubic foot	1,026	1,027	1,026	1,025	1,026	1,030	1,037	1,022	1,014	1,014
Exports	Btu/cubic foot	1,023	1,016	1,014	1,013	1,013	1,013	1,013	1,013	1,011	1,011
Wet natural gas production	Btu/cubic foot	1,093	1,097	1,095	1,093	1,093	1,088	1,092	1,088	1,091	1,091
Hydropower[3]	Btu/kWh	10,389	10,442	10,406	10,373	10,435	10,361	10,353	10,388	10,388	10,388
Nuclear power[3]	Btu/kWh	10,903	11,161	11,013	11,047	10,769	10,941	10,640	10,908	10,908	10,908
Geothermal power[3]	Btu/kWh	21,674	21,674	21,611	21,611	21,611	21,611	21,545	21,637	21,594	21,594
Electricity consumption	Btu/kWh	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412

Approximate Heat Content of Refined Petroleum Products	Million Btu/barrel
Asphalt	6.636
Aviation gasoline	5.048
Butane	4.326
Butane-propane mixture[4]	4.130
Distillate fuel oil	5.825
Ethane	3.082
Ethane-propane mixture[5]	3.308
Isobutane	3.974
Jet fuel—kerosene type	5.670
Jet fuel—naphtha type	5.355
Kerosene	5.670
Lubricants	6.065
Motor gasoline	5.253
Natural gasoline	4.620
Petrochemical feedstocks	
Naphtha 400° F or less	5.248
Other oils over 400° F	5.825
Still gas	6.000
Petroleum coke	6.024
Plant condensate	5.418
Propane	3.836
Residual fuel oil	6.287
Road oil	6.636
Special naphtha	5.248
Still gas	6.000
Unfinished oils	5.825
Unfractionated stream	5.418
Wax	5.537
Miscellaneous	5.796

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 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.
[4] 60 percent butane and 40 percent propane.
[5] 70 percent ethane and 30 percent propane.
‡ Preliminary data.

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