Fichman

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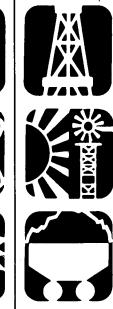
Monthly Energy Review

November 1982

Energy Information Administration U.S. Department of Energy







DOE/EIA-0035(82/11)

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

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

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

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

1
Energy Consumption March 1975
Nuclear Power
The Price of Crude Oil June 1975
U.S. Coal Resources and Reserves July 1975
Propane, A National Energy
Resource September 1975
Short-Term Energy Supply and
Demand Forecasting at FEA October 1975
Curtailments of Natural Gas Service January 1976
Home Heating Conservation Alternatives
and the Solar Collector Industry March 1976
Trends in United States
Petroleum Imports

Crude Oil Entitlements Program January 1977 Motor Gasoline Supply and Demand July 1977
Short-Term Petroleum Supply and Demand May 1978
The Energy Requirements of U.S. Agriculture
Three Mile Island —
Possible Regulatory Responses and Their
Impacts on the Nation's Short-Term
Electric Utility Fuel Outlook October 1979
Reduction in Natural Gas Requirements
Due to Fuel Switching December 1979
The Solar Collector Industry and
Solar Energy 1980
Trends in the Installation of
Energy Using Equipment in
New Residential Buildings March 1980
The Energy Information Administration's
Oil and Gas Reserves Program —
The First Year's Report June 1980
Energy From Urban Waste August 1980
Natural Gas Liquids: Revisions to
1979 Data October 1980
EIA Weekly Petroleum Data:
Data Collection and Methods of
Estimation November 1980
The Department of Energy Disclosure Policy
for Individually Identifiable Information
Maintained by the Energy Information
Administration December 1980
Changes in 1981 Petroleum Data Series May 1981
Information Services of the Energy
Information Administration September 1981
An Overview of Natural Gas
Markets December 1981
The Interstate and Intrastate
Natural Gas Markets January 1982
Natural Gas Drilling and Production
Under the Natural Gas Policy Act February 1982
Highlights: U.S. Crude Oil, Natural Gas,
and Natural Gas Liquids Reserves,
1981 Annual Report September 1982
Impacts of Financial Constraints on the
Electric Utility Industry October 1982

Highlights:

Energy Company Development Patterns in the Postembargo Era

Energy Company Development Patterns in the Postembargo Era, Volume One (DOE/EIA-0349/1), recently published by the Energy Information Administration (EIA), reports on the economic performance of 26 major energy companies which comprise EIA's Financial Reporting System (FRS). The publication provides a financial overview from 1974 through 1980 of the operations and performance of the major energy companies. The overview is conducted at the corporate level, by major line of energy business and by major function within each line-of-business.

One element of the FRS companies' performance is the distribution of net property, plant, and equipment (PP&E) assets by major line-of-business. FRS companies' changing shares by line-of-business of investment in PP&E from 1974 through 1980 are summarized in Table 1. The distribution of net PP&E by line-of-business has been relatively stable for the FRS companies. More than 75 percent of all assets are allocated to petroleum operations, from which more than 90 percent of net income is derived. During the early years of the 1974-80 period, a modest but noticeable trend toward diversification was evident. Between 1974 and 1978. relative asset commitment to petroleum diminished while greater emphasis was given to nonenergy and nonpetroleum energy (coal, nuclear, and nonconventional energy) sources.

The share of net PP&E allocated to petroleum operations steadily dropped from 83 percent in 1974 to 77 percent in 1978, but remained at 77 percent thereafter. In 1974, nonenergy activities accounted for about 14

percent of net PP&E in comparison to almost 18 percent in 1978. Since 1978, the nonenergy share has been stable. A similar pattern is evident for nonpetroleum energy. Between 1974 and 1978, these lines of activity nearly doubled in relative importance. After 1978, nonpetroleum energy ceased to receive increasing shares of FRS investment budgets. Nonenergy, which in the FRS data base includes chemicals and other nonenergy businesses, absorbed the largest portion of investment outside of petroleum for each year between 1974 and 1980.

The most prominent investment trend during the 1974-80 period involves the restructuring of petroleum assets. The share of FRS companies' physical asset base directed toward upstream petroleum operations (exploration, development, and production of oil and gas) increased from 39 percent in 1974 to 49 percent in 1980. Over the same period, the share of net PP&E accounted for by the sum of refining, marketing, and petroleum transport activities declined from 44 percent in 1974 to 29 percent in 1980.

FRS information is collected under Form EIA-28 required by the Department of Energy Organization Act (Public Law 95-91, August 4, 1977). Major topics addressed in the full report include key trends in finance and investment; petroleum industry investment characteristics; domestic petroleum resource development; production, imports, and investment in foreign petroleum; investment patterns in petroleum refining and marketing; nonpetroleum energy development; and research and development.

Table 1.	Distribution of Net PP&E¹ by Line-of-Business for FRS Companies
	(Percent)

Petroleum		Petroleum			Non-	Nonener	·9y		
Year	Upstream²	Downstream ³	Coal	Nuclear	Conventional Energy	Chemicals	Other	Non- Traceables⁴	Total⁵
1974	39.2	43.6	1.5	0.3	8.0	5.7	7.9	1.0	100.0
1975	38.3	43.7	1.7	0.4	0.8	6.4	7.7	1.0	100.0
1976	38.5	41.5	1.8	0.4	0.9	7.1	8.7	1.0	100.0
1977	40.0	38.1	2.1	0.5	1.0	8.3	8.9	1.0	100.0
1978	41.3	35.6	2.3	0.6	1.6	8.8	8.8	1.0	100.0
1979	45.1	31.7	2.3	0.7	1.3	8.4	9.4	1.0	100.0
1980	48.5	28.5	2.4	0.7	1.4	8.1	9.3	1.0	100.0

¹ Property, plant, and equipment.

Source: Energy Information Administration, Energy Company Development Patterns in the Postembargo Era, Volume One, DOE/EIA-0349/1, October 1982.

² Exploration, development, and production.

³ Refining, marketing, and transport activities.

Cannot be assigned to a line-of-business.

⁶ Totals may not equal sum of components due to independent rounding.

Overview

Production

Energy production during the first 8 months of 1982 totaled 43.4 quadrillion Btu, a 2.1percent* increase compared to the level of production during the same period of 1981. Natural gas production decreased by 6.8 percent. Increases in production occurred for petroleum and coal. Petroleum production was up by 0.5 percent and coal by 10.9 percent. All other forms of energy production combined were up by 11.4 percent.

Consumption

Energy consumption during the first 8 months of 1982 totaled 48.0 quadrillion Btu. a 3.2-percent decrease compared to consumption during the same period of 1981. Decreases occurred in the daily consumption rates of petroleum (4.8 percent), natural gas (5.6 percent), and coal (2.3 percent), accounting for the overall decline in energy consumption during this period. The daily consumption rate of all other forms of energy increased by 10.8 percent.

Imports

Net imports of energy during the first 8 months of 1982 totaled 4.7 guadrillion Btu. 30.1 percent below the level of the first 8 months of 1981. Net imports of petroleum decreased by 23.7 percent, and net imports of electricity and coal coke combined decreased 4.4 percent. Net exports of coal increased by 14.4 percent. Natural gas net imports increased by 9.6 percent.

Energy Summary (Quadrillion (1015) Btu)

		August	<u> </u>	Cui	Cumulative January through August					
	1982	1981	Percent Change	1982	1982 Daily Rate	1981	1981 Daily Rate	Percent Change ¹		
Total Production	5.352	5.788	-7.5	43.413	0.179	42.536	0.175	+2.1		
Petroleum ²	1.752	1.739	+0.7	13.673	0.056	13.602	0.056	+0.5		
Natural Gas	1.493	1.701	-12.2	12.465	0.051	13.372	0.055	-6.8		
Coal	1.583	1.824	-13.2	12.935	0.053	11.665	0.048	+ 10.9		
Other ³	0.524	0.524	0.0	4.340	0.018	3.896	0.016	+11.4		
Total Consumption	5.661	5.935	-4.6	47.969	0.197	49.560	0.204	-3.2		
Petroleum ⁴	2.520	2.592	-2.8	20.430	0.084	21.470	0.088	-4.8		
Natural Gas	1.208	1.348	-10.4	12.525	0.052	13.262	0.055	-5.6		
Coal	1.390	1.450	-4.1	10.531	0.043	10.781	0.044	-2.3		
Other ⁵	0.543	0.544	-0.3	4.483	0.018	4.046	0.017	+10.8		
Net Imports	0.659	0.708	-7.0	4.669	0.019	6.683	0.028	-30.1		
Petroleum ⁶	0.771	0.920	-16.1	5.840	0.024	7.658	0.032	-23.7		
Natural Gas	0.061	0.060	+1.7	0.608	0.003	0.555	0.002	+9.6		
Coal ⁷	(0.193)	(0.292)	(-34.0)	(1.922)	(0.008)	(1.680)	(0.007)	(+14.4)		
Other*	0.019	0.021	-7.9	0.143	0.001	0.150	`0.001	-4.4		

¹ Based on daily rates.

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

^{*}All percentage increases/decreases are on a daily rate basis.

³ Includes hydroelectric, nuclear, and geothermal power and electricity produced from wood and waste. Includes refined petroleum products and natural gas plant liquids.

Includes hydroelectric, nuclear, and geothermal power, electricity produced from wood and waste, and net imports of

Includes rividence of the condensate, refined petroleum products, unfinished oils, natural gasoline, plant condensate, and Includes crude oil, lease condensate, refined petroleum products, unfinished oils, natural gasoline, plant condensate, and

Parentheses indicate exports are greater than imports.

Includes net imports of electricity and coal coke

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

Energy Summary¹

		Energy Production ²	Energy Consumption ²	Energy Imports ²	Energy Exports
			Quadrillion	(1015) 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	January	5.668	R7.400	1.695	0.227
	February	5.308	R6.959	1.473	0.210
	March	R5.695	R6.845	1.476	0.264
	April	5.458	R5.983	1.339	0.287
	May	5.591	R5.833	1.281	0.344
	June	5.398	R5.690	1.287	0.359
	July	5.242	R5.940	1.210	0.323
	August	5.335	R5.870	1.203	0.313
	September	R5.300	R5.790	1.168	0.330
	October	R5.492	R6.146	1.248	0.370
	November	R5.334	R6.253	1.227	0.341
	December	5.678	R7.202	1.363	0.338
	TOTAL	65.499	R75.910	15.971	3.706
1981	January	R5.509	R7.474	1.346	0.264
	February	R5.251	R6.342	1.210	0.280
	March	R5.749	R6.452	1.192	0.372
	April	R4.633	R5.719	1.083	0.328
	May	R4.770	R5.774	1.130	0.277
	June	R5.257	R5.828	1.039	0.249
	July	R5.580	R6.036	1.139	0.395
	August	R5.788	R5.935	1.131	0.423
	September	R5.610	R5.661	1.201	0.414
	October	R5.764	R5.983	1.178	0.469 0.443
	November	R5.488	R5.986	1.109	0.434
	December	R5.755	R6.933	1.172	
	TOTAL	R65.152	R74.123	13.929	4.347
1982	January	R5.542	R7.231	1.073	0.323
	February	R5.262	R6.297	0.880	0.377
	March	R5.859	R6.374	0.917	0.443
	April	R5.460	R5.870	0.847	0.430
	May	R5.427	R5.446	0.957	0.421
	June	R5.365	R5.410	1.001	0.414
	July	R5.145	R5.680	1.130	0.386
	August	5.352	5.661	1.016	0.358

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

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

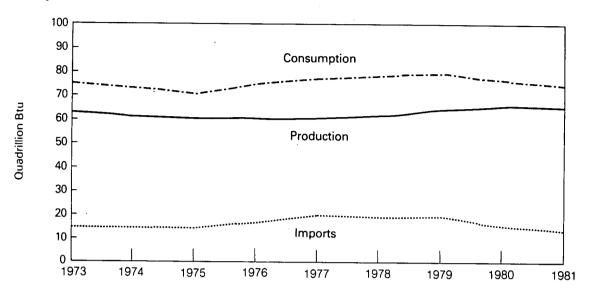
The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation, and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces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

R=Revised data.

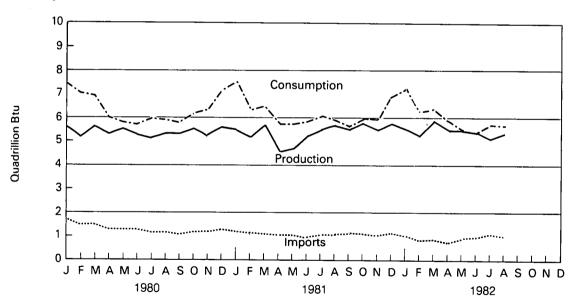
Source: • Energy Information Administration calculations based on data appearing elsewhere in this publication.

Energy Summary

Yearly



Monthly



Production of Energy by Type

		Coal¹	Crude Oil ²	NGPL ³	Natural Gas (Dry)	Hydro- electric Power ⁴	Nuclear Electric Power	Other ⁵	Total Energy Produced	Yearly Cumulative Energy Produced
					Quadrillion	(1015) Btu				
1973	TOTAL	14.366	19.493	2.569	22.187	2.861	0.910	0.046	62.433	
1974	TOTAL	14.468	18.575	2.471	21.210	3.177	1.272	0.056	61.229	
1975	TOTAL	15.189	17.729	2.374	19.640	3.155	1.900	0.072	60.059	
1976	TOTAL	15.853	17.262	2.327	19.480	2.976	2.111	0.081	60.091	
1977	TOTAL	15.829	17.454	2.327	19.565	2.333	2.702	0.082	60.293	
1978	TOTAL	15.037	18.434	2.245	19.485	2.937	3.024	0.068	61.231	
1979	TOTAL	17.651	18.104	2.286	20.076	2.931	2.715	0.089	63.851	
1980	January	1.611	1.560	0.200	1.814	0.265	0.210	0.008	5.668	5.668
	February	1.517	1,464	0.188	1.702	0.224	0.205	0.008	5.308	10.976
	March	1.643	1.564	0.190	R1.822	0.255	0.213	0.008	R5.695	R16.671
	April	1.613	1.511	0.191	1.664	0.270	0.200	0.008	5.458	R22.129
	May	1.645	1.553	0.196	1.690	0.302	0.196	0.010	5.591	R27.719
	June	1.652	1.488	0.183	1.581	0.290	0.195	0.009	5.398	R33.118
	July	1.419	1.537	0.185	1.612	0.256	0.224	0.010	5.242	R38.360
	August	1.584	1.513	0.184	1.571	0.214	0.259 0.251	0.011 0.010	5.335 R5.300	R43.695 R48.995
	September	1.593	1.500	0.178	R1.575	0.194		0.010	R5.492	R54.488
	October	1.674	1.534	0.184	R1.642	0.187 0.201	0.261 0.223	0.011	R5.334	59.822
	November	1.589	1.478	0.184	R1.647 1.792	0.233	0.225	0.011	5.678	65.499
	December	1.670	1.547	0.189						05.433
	TOTAL	19.209	18.249	2.254	20.112	2.890	2.672	0.114	65.499	D5 500
1981	January	R1.526	1.535	0.200	1.748	0.234	0.253	0.011	R5.509	R5.509
	February	R1.642	1.397	0.181	R1.570	0.221	0.230	0.010	R5.251	R10.760
	March	R1.812	1.549	0.197	1.730	0.216	0.234	0.011	R5.749	R16.509
	April	R0.839	1.489	0.188	R1.669	0.218	0.220	0.010	R4.633	R21.142 R25.911
	May	R0.882	1.529	0.193	R1.693	0.253	0.210 0.225	0.010 0.010	R4.770	R31.168
	June	R1.425	1.501	0.187	R1.631	0.276 0.263	0.225	0.010	R5.257 R5.580	R36.748
	July	R1.715	1.528 1.543	0.188 0.196	R1.629 R1.701	0.263	0.246	0.011	R5.788	R42.536
	August	R1.824	1.543	0.196	R1.701	0.220	0.260	0.011	R5.610	R48.146
	September October	R1.892 R1.973	1.497	0.194	R1.637	0.187	0.219	0.011	R5.764	R53.909
	November	R1.773	1.494	0.194	R1.579	0.103	0.242	0.010	R5.488	R59.397
	December	R1.768	1.544	0.193	R1.714	0.250	0.277	0.010	R5.755	R65.152
	TOTAL	R19.071	18.146	2.298	R19.877	2.732	2.901	0.127	R65.152	
1982	January	1.530	1.559	0.188	R1.702	0.282	0.273	0.009	R5.542	R5.542
1502	February	1.621	1.411	0.167	R1.562	0.279	0.215	0.008	R5.262	R10.804
	March	1.914	1.546	0.107	R1.648	0.273	0.242	0.007	R5.859	R16.663
	April	R1.683	1.505	0.186	R1.554	0.292	0.232	0.007	R5.460	R22.123
	May	R1.627	1.557	0.184	R1.527	0.294	0.230	0.008	R5.427	R27.550
	June	R1.640	1.510	0.177	R1.479	0.293	0.256	0.010	R5.365	R32.915
	July	1.338	1.555	0.185	R1.500	0.287	0.271	0.010	R5.145	R38.061
	August	1.583	1.564	0.187	1.493	0.250	0.264	0.010	5.352	43.413

Geographic coverage: the 50 United States and District of Columbia. Totals may not equal sum of components due to independent rounding. Includes bituminous coal, lignite, and anthracite. Includes lease condensate.

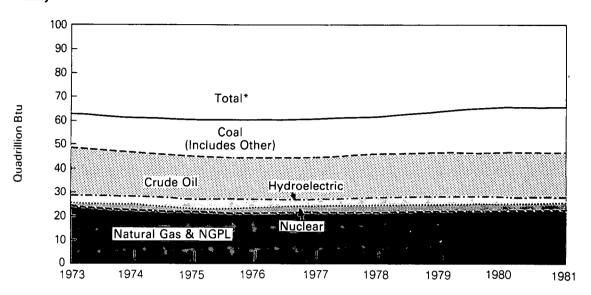
Natural gas plant liquids.
Includes industrial and utility production of hydropower.
Includes geothermal power and electricity produced from wood and waste.

R=Revised data.

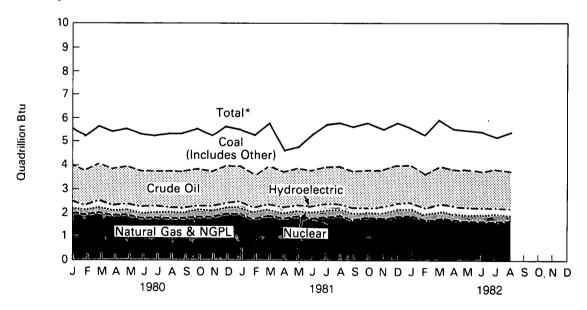
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Production of Energy by Type

Yearly



Monthly



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

Consumption of Energy by Type

			Natural		Hydro-	Nuclear	Net Imports of		Total Energy	Yearly Cumulative
		Coal ¹	Gas (Dry)	Petro- leum	electric Power ²	Electric Power	Coal Coke ³	Other•	Con- sumed	Energy Consumed
					Quadrillior	n (1015) Btu				
1973	TOTAL	13.300	22.512	34.840	3.010	0.910	(800.0)	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	January	1.397	R2.296	3.202	0.283	0.210 0.205	0.003 (0.001)	0.008 0.008	R7.400 R6.959	R7.400 R14.359
	February	1.313	R2.203	2.990	0.241 0.273	0.203	(0.001)	0.008	R6.845	R21.204
	March	1.295	R2.107 R1.575	2.951 2.759	0.273	0.213	(0.003)	0.008	R5.983	R27.186
	April	1.158 1.162	R1.373	2.759	0.267	0.200	(0.005)	0.000	R5.833	R33.020
	May June	1.234	R1.288	2.750	0.307	0.195	(0.004)	0.009	R5.690	R38.710
	July	1.389	R1.329	2.719	0.275	0.224	(0.004)	0.010	R5.940	R44.650
	August	1.381	R1.315	2.676	0.232	0.259	(0.003)	0.011	R5.870	R50.520
	September	1.261	R1.333	2.728	0.211	0.251	(0.004)	0.010	R5.790	R56.310
	October	1.227	R1.562	2.887	0.205	0.261	(0.006)	0.011	R6.146	R62.456
	November	1.250	R1.807	2.745	0.219	0.223	(0.002)	0.011	R6.253	R68.708
	December	1.394	R2.184	3.127	0.252	0.235	(0.001)	0.011	R7.202	R75.910
	TOTAL	15.461	R20.391	34.202	3.107	2.672	(0.037)	0.114	R75.910	
1981	January	1.487	R2.338	3.130	0.255	0.253	0.000	0.011	R7.474	R7.474
	February	R1.314	R1.943	2.606	0.239	0.230	(0.001)	0.010	R6.342	R13.816
	March	R1.322	R1.949	2.702	0.236	0.234	(0.003)	0.011	R6.452	R20.267
	April	1.202	R1.528	2.523	0.237	0.220	(0.001)	0.010	R5.719	R25.986
	May	R1.211	R1.463	2.608	0.273	0.210	0.000	0.010	R5.774	R31.761
	June	1.313	R1.343	2.645	0.296	0.225	(0.004)	0.010	R5.828	R37.589
	July	1.483	R1.349	2.664	0.283	0.246	0.000	0.011	R6.036	R43.625
	August	R1.450	R1.348	2.592	0.246	0.287	0.000	0.011	R5.935 R5.661	R49.560 R55.221
	September	R1.314	R1.299	2.573	0.206	0.260	(0.002)	0.011 0.011	R5.983	R61.204
	October November	1.302 R1.291	R1.557 R1.661	2.687 2.563	0.210 0.218	0.219 0.242	(0.003) 0.000	0.011	R5.986	R67.190
	December	R1.430	R2.131	2.819	0.270	0.277	(0.003)	0.010	R6.933	R74.123
	TOTAL	R16.118	R19.911	32.113	2.970	2.901	(0.017)	0.127	R74.123	
1982	January	R1.522	R2.428	2.699	0.302	0.273	0.000	0.009	R7.231	R7.231
1302	February	R1.315	R2.426	2.446	0.302	0.215	(0.001)	0.003	R6.297	R13.528
	March	R1.281	R1.870	2.643	0.332	0.242	(0.002)	0.007	R6.374	R19.902
	April	R1.172	R1.510	2.638	0.312	0.232	(0.001)	0.007	R5.870	R25.772
	May	R1.206	R1.169	2.521	0.314	0.230	(0.003)	0.008	R5.446	R31.218
	June	R1.231	R1.150	2.454	0.313	0.256	(0.004)	0.010	R5.410	R36.628
	July	1.414	R1.173	2.509	0.307	0.271	(0.003)	0.010	R5.680	R42.308
	August	1.390	1.208	2.520	0.270	0.264	(0.001)	0.010	5.661	47.969

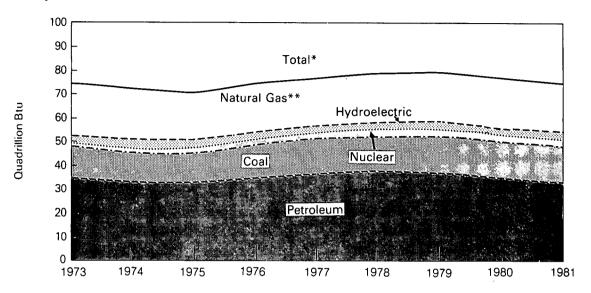
Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
Includes bituminous coal, lignite, and anthracite.
Includes industrial and utility production and net imports of electricity.
Parentheses indicate exports are greater than imports.
Includes geothermal power and electricity produced from wood and waste.
Respected data

R=Revised data.

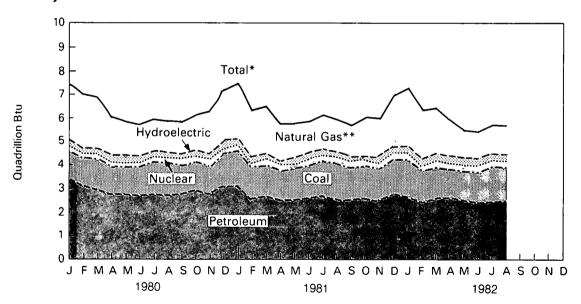
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Consumption of Energy by Type

Yearly



Monthly



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

Net Imports of Energy by Type¹

		Coal ²	Crude Oil ³	Refined Petro- leum Products ⁴	Natural Gas (Dry)	Electri- city	Coal Coke	Net Imports	Yearly Cumulative Net Imports of Energy
				Quad	drillion (1015)	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	January	(0.114)	1.096	0.349	0.115	0.018	0.003	1.468	1.468
	February	(0.101)	0.958	0.284	0.105	0.017	(0.001)	1.262	2.731
	March	(0.145)	0.967	0.269	0.106	0.018	(0.003)	1.212	3.943
	April	(0.196)	0.943	0.218	0.076	0.018	(0.005)	1.053	4.995
	May	(0.220)	0.861	0.214	0.069	0.018	(0.006)	0.937	5.933
	June July	(0.230)	0.892	0.193	0.059	0.018	(0.004)	0.928	6.861
	August	(0.215)	0.830 0.851	0.199	0.059	0.018	(0.004)	0.887	7.748
	September	(0.238) (0.219)	0.851	0.204 0.223	0.058	0.018	(0.003)	0.890	8.638
	October	(0.244)	0.763	0.223	0.056 0.072	0.018	(0.004)	0.839	9.477
	November	(0.235)	0.803	0.252	0.072	0.018	(0.006)	0.878	10.355
	December	(0.214)	0.854	0.232	0.087	0.018 0.018	(0.002)	0.885	11.240
	TOTAL	(2.371)	10.586	2.912			(0.001)	1.025	12.265
		(2.37 1)	10.566	2.912	0.957	0.217	(0.037)	12.265	
1981	January	(0.151)	0.828	0.298	0.088	0.020	0.000	1.083	1.083
	February	(0.175)	0.761	0.245	0.082	0.018	(0.001)	0.930	2.013
	March	(0.252)	0.777	0.200	0.077	0.020	(0.003)	0.819	2.832
	April	(0.215)	0.722	0.164	0.065	0.020	(0.001)	0.755	3.587
	May	(0.157)	0.716	0.214	0.059	0.020	0.000	0.853	4.440
	June	(0.158)	0.687	0.185	0.061	0.020	(0.004)	0.791	5.231
	July	(0.281)	0.728	0.214	0.062	0.020	0.000	0.744	5.975
	August	(0.292)	0.716	0.203	0.060	0.020	0.000	0.708	6.683
	September October	(0.310)	0.793	0.223	0.062	0.020	(0.002)	0.786	7.469
	November	(0.321) (0.308)	0.749 0.657	0.189	0.076	0.020	(0.003)	0.709	8.179
	December	(0.299)	0.657	0.218 0.220	0.079	0.020	0.000	0.666	8.844
	TOTAL	, ,			0.090	0.020	(0.003)	0.738	9.583
4000		(2.918)	8.844	2.573	0.862	0.238	(0.017)	9.583	
1982	January	(0.160)	0.614	0.175	0.100	0.020	0.000	0.750	0.750
	February	(0.234)	0.431	0.199	0.091	0.018	(0.001)	0.503	1.253
	March	(0.273)	0.457	0.184	0.087	0.020	(0.002)	0.474	1.727
	April May	(0.283)	0.460	0.147	0.075	0.020	(0.001)	0.417	2.144
	June	(0.262)	0.550	0.164	0.066	0.020	(0.003)	0.536	2.680
	July	(0.279) (0.239)	0.643 0.724	0.142	0.064	0.020	(0.004)	0.586	3.267
	August	(0.239)	0.724	0.178 0.138	0.063	0.020	(0.003)	0.743	4.010
	,yuu.	(0.130)	0.034	0.130	0.061	0.020	(0.001)	0.659	4.669

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

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

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

Includes bituminous coal, lignite, and anthracite.

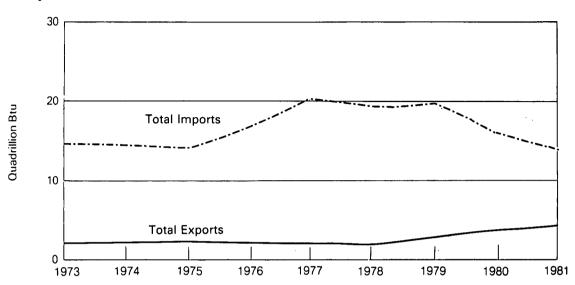
Includes crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.

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

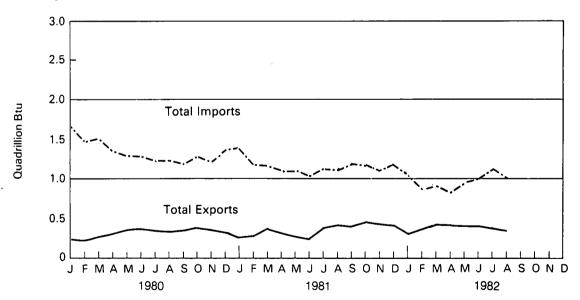
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Energy Imports and Exports

Yearly



Monthly



Merchandise Trade Value

		Exports				Imports		T	Trade Balance			
		Energy	All Other	Total	Energy	All Other	Total	Energy	All Other	Total		
					N	Million dolla	ars					
1973	TOTAL	1,671	69,202	70,873	8,173	61,659	69,832	-6,502	+7,543	+ 1,041		
1974	TOTAL	3,444	94,553	97,997	25,454	75,194	100,648	-22,010	+ 19,360	-2,650		
1975	TOTAL	4,470	103,119	107,589	26,476	70,094	96,570	-22,006	+33,025	+ 11,019		
1976	TOTAL	4,226	110,924	115,150	33,996	87,013	121,009	-29,770	+23,911	-5,859		
1977	TOTAL	4,184	116,966	121,150	44,537	103,148	147,685	-40,353	+13,818	-26,535		
1978	TOTAL	3,881	139,696	143,577	42,096	129,882	171,978	-38,215	+9,814	-28,401		
1979	TOTAL	5,621	176,030	181,651	59,998	146,258	206,256	-54,377	+29,772	-24,605		
1980	January	619	16,801	17,419	7,118	14,024	21,142	-6,499	+2,776	-3,723		
	February	584	16,400	16,984	8,152	13,626	21,779	-7,568	+2,774	-4,794		
	March	636	17,629	18,265	7,564	13,384	20,947	-6,928	+4,246	-2,682		
	April	607	17,960	18,567	6,797	12,969	19,766	-6,190	+4,992	-1,198		
	May	660	16,987	17,647	7,150	13,437	20,587	-6,490	+3,549	-2,941		
	June	656	17,784	18,440	7,276	13,077	20,353	-6,620	+4,708	-1,912		
	July	695	17,572	18,267	5,986	13,153	19,139	-5,291	+4,419	-872		
	August	702	18,385	19,087	6,461	13,252	19,713	-5,759	+5,133	-626		
	September	710	18,119	18,828	6,278	13,662	19,941	-5,568	+4,456	-1.112		
	October	662	18,552	19,214	6,601	13,747	20,347	-5,939	+4,805	-1,134		
	November	709	18,006	18,715	6,128	13,732	19,860	-5,419	+4,274	-1,145		
	December	706	18,545	19,251	7,413	14,023	21,436	-6,707	+4,522	-2,185		
	TOTAL	7,982	212,644	220,626	82,924	161,947	244,871	-74,942	+50,698	-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	+4,813	-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	+1,780	-4,212		
	September	939	18,612	19,551	6,555	14,719	21,274	-5,616	+3,892	-1,724		
	October	991	18,172	19,163	6,638	16,439	23,077	-5,647	+1,733	-3,914		
	November	997	18,156	19,153	6,608	15,900	22,508	-5,611	+2,255	-3,356		
	December	1,067	17,818	18,885	5,422	14,324	19,746	-4,355	+3,494	-861		
	TOTAL	10,315	223,160	233,475	81,361	179,647	261,008	-71,046	+43,511	-27,535		
1982	January	1,269	17,468	18,737	7,439	15,390	22,829	-6,170	+2.078	-4.092		
	February	1,493	17,211	18,704	5,107	13,983	19,090	-3,614	+3,227	-387		
	March	1,411	17,191	18,602	5,009	15,340	20,349	-3,598	+1,851	-1,747		
	April	1,183	16,660	17,843	4,312	13,075	17,387	-3,129	+3,585	+456		
	May	1,068	17,150	18,218	4,167	16,391	20,558	-3,099	+759	-2,340		
	June	1,005	17,817	18,822	5,427	15,883	21,310	-4,422	+1,934	-2,488		
	July	918	17,109	18,027	5,943	13,616	19,559	-5,025	+3,493	-1,532		
	August	915	16,583	17,498	6,353	17,141	23,494	-5,438	-558	-5,996		
	September	1,055	16,332	17,387	5,201	15,443	20,644	-4,146	+889	-3,257		
					•			•				

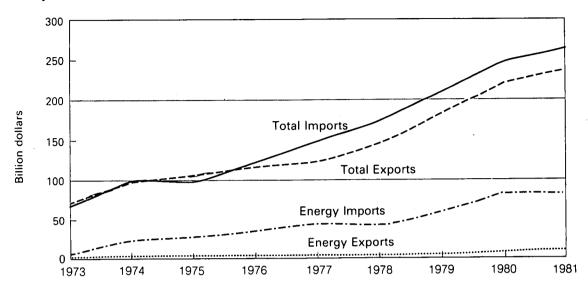
Totals may not equal sum of components due to independent rounding.

Note: 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. See Note at the end of this section.

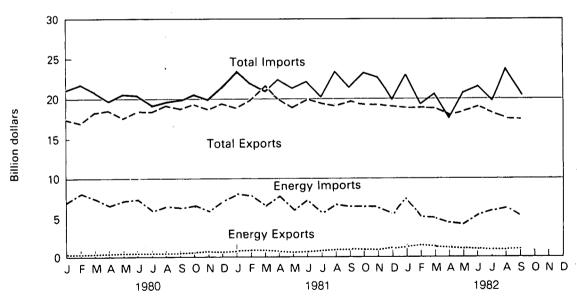
Notes and Sources: • See the last page of this section.

Merchandise Trade Value

Yearly



Monthly



Energy Indicators-

Gross National Product and Energy Consumption U.S. Dependence on Petroleum Imports¹ Gross **National Product Direct Imports Energy** Yearly (Annual rate) **Domestic** Consumption Rate of From From Total Petroleum per GNP Energy Current 1972 Arab/OPEC OPEC All **Products** Dollar² Consumption **Dollars** Dollars³ Countries Countries Countries Supplied **ANNUAL RATE** Quadrillion Btu Trillion Dollars Million barrels per day 1973 **AVERAGE** 59.5 74.609 1.326 1.254 0.92 2.99 6.26 17.31 1974 **AVERAGE** 58.4 72.759 1.434 1.246 0.75 3.28 6.11 16.65 1975 **AVERAGE** 57.4 70.707 1.549 1.232 1.38 3.60 6.06 16.32 1976 **AVERAGE** 57.4 74.510 1.718 1.298 2.42 5.07 7.31 17.46 1977 **AVERAGE** 55.7 76.332 1.918 1.370 3.19 6.19 8.81 18.43 1978 **AVERAGE** 54.3 78.175 2.164 1.439 2.96 5.75 8.36 18.85 1979 **AVERAGE** 53.4 78.910 2.418 1.479 3.06 5.64 8.46 18.51 1980 1st Otr 57.3 85.632 2.576 1.495 2.99 5.05 8.00 18.34 2nd Qtr 48.2 70.272 2.573 1.458 2.59 4.29 6.86 16.40 3rd Otr 47 6 69.699 2.644 1.464 2.28 3.80 6.23 16.11 4th Qtr 52.8 78.093 2.739 1.479 2.35 4.06 6.56 17.38 **AVERAGE** 51.5 75.913 2.633 1.474 2.55 4.30 6.91 17.06 1981 1st Otr 54.3 81.837 2.865 1.508 2.07 3.81 6.54 17.11 2nd Qtr 46.2 69.402 2.902 1.502 1 79 3.12 5.63 15.60 3rd Qtr 46.3 69.898 2.981 1.510 1.86 3.19 5.98 15.53 4th Qtr 50.2 74.841 3.003 1.490 1.68 3.18 5.85 16.01 **AVERAGE** 49.2 73.965 2.938 1.503 1.85 3.32 6.00 16.06 1982 1st Otr 54.8 80.653 2.996 1.471 1.10 2.38 4.80 15.79 2nd Qtr 45.6 67.409 3.045 1.478 0.80 1.90 4.77 15.27

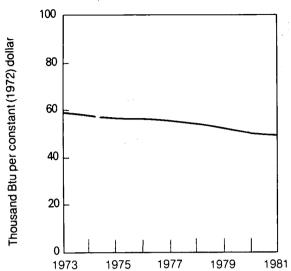
Geographic coverage: the 50 United States and District of Columbia.

¹Beginning in October 1977, Strategic Petroleum Reserve imports are included.
²Thousand Btu per 1972 constant dollar.

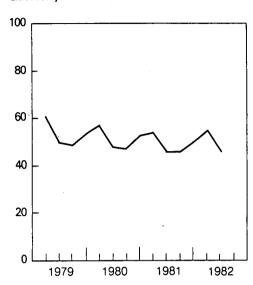
³Current dollars are converted to 1972 constant dollars by the Department of Commerce, Bureau of Economic Analysis. Gross national product rates are from the *Survey of Current Business* published by the Bureau of Economic Analysis. *Sources*: • See the last page of this section.

Energy Consumption per GNP Dollar



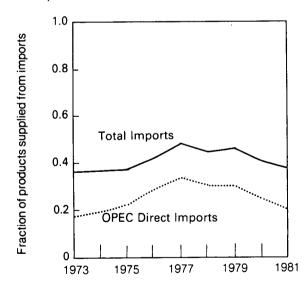


Quarterly

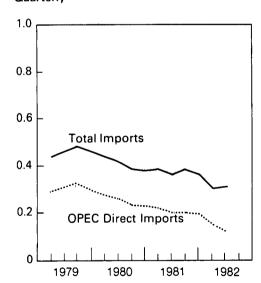


U.S. Dependence on Petroleum Imports

Yearly



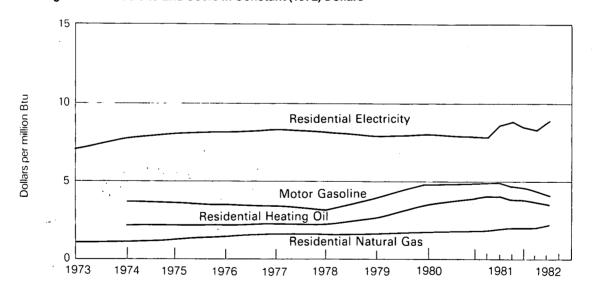
Quarterly



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 Otr 2nd Otr 3rd Otr 4th Otr AVERAGE	62.1 62.1 59.3 57.9 60.4	4.97 4.97 4.74 4.63 4.83	57.0 57.2 54.4 54.0 55.7	4.11 4.12 3.92 3.89 4.01	197.5 209.1 215.0 216.3 209.7	1.93 2.04 2.10 2.11 2.05	2.65 2.91 2.99 2.87 2.85	7.77 8.53 8.76 8.41 8.35
1982	1st Qtr 2nd Qtr	55.4 51.7	4.43 4.13	52.2 49.8	3.76 3.59	218.2 238.6	2.13 2.33	2.82 3.01	8.26 8.82

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



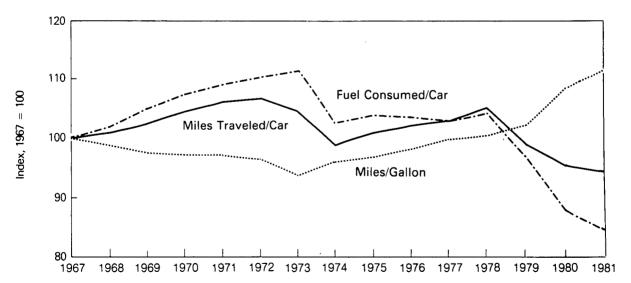
Geographic coverage: the 50 United States and District of Columbia. NA = Not available.

Sources: • See the last page of this section.

Energy Indicator—U.S. Passenger Car Efficiency

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

U.S. Passenger Car Efficiency Index



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

Notes and Sources for the Executive Summary Section

Notes

- 1. Domestic Production: Domestic production of energy includes production of coal (anthracite, bituminous coal, and lignite), crude oil and lease condensate, natural gas plant liquids, natural gas (dry), electric utility and industrial production of hydropower, and electricity generated from nuclear power, geothermal power, and wood and waste. The volumetric data were converted to approximate heat contents (Btu values) of these energy sources using conversion factors listed in Conversion
- 2. **Domestic Consumption:** Domestic consumption of energy includes consumption of coal (anthracite, bituminous coal, and lignite), natural gas (dry), refined petroleum products supplied, electric utility and industrial production of hydropower, net imports of electricity produced from hydropower, net imports of coke made from coal, and electricity generated from nuclear power, geothermal power, and wood and waste. Approximate heat contents (Btu values) were derived using conversion factors listed in Conversion Factors.
- 3. U.S. Energy Imports: U.S. energy imports include imports of bituminous coal, crude oil (including crude oil imported for the Strategic Petroleum Reserve), refined petroleum products, natural gas (dry), electricity produced from hydropower, and coke 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. The statistics exclude imports into Guam, American Samoa, and other U.S. possessions; as well as shipments between the United States and Puerto Rico, between the United States and U.S. possessions; as well as shipments between the United States and Puerto Rico, between the United States and U.S. possessions, and between any of these outlying areas. Also, U.S. Virgin Island trade with foreign countries is included in all import data and total export data beginning with January 1980 and is included in energy export data beginning with January 1981. Data presented are on a customs value basis (i.e., the value of imports as appraised by the U.S. Customs Service in accordance with the legal requirements of the Tariff Act of 1930) for 1973 and 1981 forward. Values for all other years are on a free alongside ship (f.a.s.) basis. Monthly data are adjusted for seasonal and working-day variation; annual data are unadjusted. 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 in Customs bonded warehouses and entries for the Strategies. (i.e., entries for immediate consumption, entries into Customs bonded warehouses, and entries for the Strategic Petroleum Reserve). "Trade Balance" is exports minus imports; a positive balance indicates surplus trade value and a negative balance indicates deficit trade value. The "All Other" columns are calculated by subtracting "energy" from "total." Totals may not equal sum of components due to independent rounding.

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

recording a mean daily temperature of 40° F would report 25 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: 1973 through 1978: U.S. Department of Commerce, International Trade Administration, Overseas Business Reports, "United States Foreign Trade Annual," 1973-1979;
 1979 forward: U.S. Department of Commerce, Bureau of the Census, "Summary of U.S. Export and Import Merchandise Trade," December 1980 issue for 1979 data and most recent monthly issue for 1980 and forward.

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

 Cost of Fuels to End Users in Constant (1972) Dollars: Motor gasoline—Bureau of Labor Statistics.
 Heating oil—Energy Information Administration (EIA), 1974 and 1975: Form CLC-92, "No.2 Heating Oil Monthly Price Adjustment Report"; 1976 forward: FEA Form P112-M-1 and EIA-9, "No.2 Heating Oil Supply/Price Monitoring Report."
 Natural gas—1973 through 1980 annual numbers: Bureau of Mines and Energy Information Administration, Form 1340-A, "Supply and Disposition of Natural Gas to Non-Producing Distributors" and Form 1341-A, "Supply and Disposition of Natural Gas to Producers and Pipelines"; 1980 and 1981 quarterly numbers and 1981 annual numbers: Bureau of Labor Statistics.
 Electricity—Federal Energy Regulatory Commission (FERC), 1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: FERC Form 5, "Electric Utility Company Monthly Statement."
 Deflator (The Consumer Price Index)—U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business.
- 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 August 1982 dropped to 5.7 quadrillion Btu, 0.3 percent below the July 1982 level and 4.6 percent below the August 1981 level.

The residential and commercial sector consumption was 1.9 quadrillion Btu in August 1982, 0.9 percent lower than in July 1982 but 1.3 percent higher than in August 1981. The residential and commercial sector accounted for 34.3 percent of total consumption in August 1982, up from the sector's 32.2-percent share in August 1981.

The industrial sector consumption was 2.2 quadrillion Btu in August 1982, up 0.2 percent from July 1982 but down 11.1 percent from the consumption level in August 1981. The industrial sector consumed 38.2 percent of the August 1982 total, down from the sector's 41.0-percent share in August 1982.

The transportation sector consumption was 1.5 quadrillion Btu in August 1982, down 0.6 percent from the consumption level in July 1982 and down 2.5 percent from the consumption level in August 1981. This sector consumed 27.3 percent of the August 1982 total, as compared to the 26.7-percent share in August 1981.

The electric utilities consumption was an estimated 2.2 quadrillion Btu of energy in August 1982, 1.7 percent lower than in the previous month and 2.2 percent lower than in August 1981. Coal contributed 52.5 percent of the energy consumed by electric utilities in August 1982, while natural gas contributed 16.8 percent; hydroelectric power, 12.1 percent; nuclear power, 11.9 percent; petroleum, 6.3 percent; and geothermal and wood and waste, 0.5 percent.

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

Primary Energy Source	Residential and Commercial	Industrial	Transportation	Electric Utilities	TOTAL
Coal	0.009	0.202	0.000	1.166	1.390
Natural Gas (dry)	0.239	0.557	0.040	0.374	1.208
Petroleum	0.215	0.661	1.505	0.140	2.520
Hydroelectric	0.000	0.002	0.000	0.268	0.270
Nuclear	0.000	0.000	0.000	0.264	0.264
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	0.462	1.420	1.545	2.222	5.661
Electricity Sales	0.430	0.216	0.001	(0.647)	
Net Energy Consumption	0.893	1.636	1.546		4.087
Electrical Energy Losses	1.047	0.525	0.002	(1.574)	1.574
TOTAL ENERGY CONSUMED	1.939	2.161	1.548		5.661

Contar

Consumption

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 page of this section.

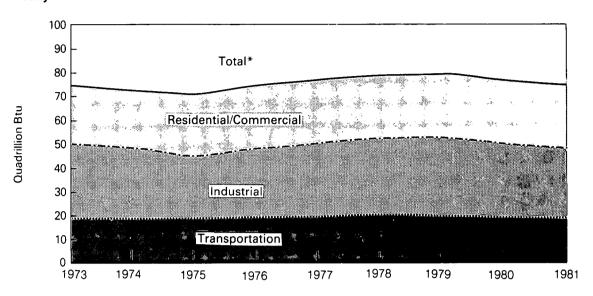
Consumption of Energy by End-Use Sector

		Residential and Commercial	Industrial	Transportation	Total Energy Consumed
			Quadrillion	n (10¹⁵) Btu	
1973	TOTAL	24.197	31.886	18.520	74.609
1974	TOTAL	23.774	30.943	18.035	72.759
1975	TOTAL	23.920	28.608	18.177	70.707
1976	TOTAL	25.004	30.435	19.064	74.510
1977	TOTAL	25.405	31.186	19.736	76.332
1978	TOTAL	25.990	31.570	20.614	78.175
1979	TOTAL	26.073	32.399	20.434	78.910
1980	January	R2.812	R2.844	R1.747	R7.400
	February	R2.758	R2.528	R1.674	R6.959
	March	R2.570	R2.584	1.694	R6.845
	April	2.028	R2.332	R1.630	R5.983
	May	R1.761	R2.460	1.618	R5.833
	June	R1.759	R2.371	R1.560	R5.690
	July	R1.965	R2.343	1.624	R5.940
	August	R1.943	R2.332	R1.588	R5.870
	September	_ 1.809	R2.415	1.562	R5.790
	October	R1.806	R2.677	1.663	R6.146
	November	R2.024	R2.670	1.559	R6.253
	December	R2.636	R2.804	1.761	R7.202
	TOTAL	R25.869	R30.360	R19.680	R75.910
1981	January	R3.080	R2.609	R1.783	R7.474
	February	R2.644	R2.184	R1.514	R6.342
	March	R2.386	R2.449	R1.616	R6.452
	April	R1.913	R2.265	R1.544	R5.719
	May	R1.779	R2.425	R1.569	R5.774
	June	R1.821	R2.386	R1.616	R5.828
	July	R1.964	R2.436	R1.632	R6.036
	August September	R1.914	R2.431	R1.587	R5.935
	October	R1.722	R2.389	R1.551	R5.661
	November	R1.809	R2.567	R1.607	R5.983
	December	R1.987 R2.606	R2.461	R1.539	R5.986
			R2.627	R1.697	R6.933
1000	TOTAL	R25.625	R29.228	R19.257	R74.123
1982	January	3.204	R2.420	R1.601	R7.231
	February	R2.812	R2.021	R1.460	R6.297
	March	2.506	R2.230	R1.634	R6.374
	April May	R2.163	R2.078	R1.627	R5.870
	June	R1.793 R1.766	R2.080	R1.569	R5.446
	July	1,957	R2.096	R1.541	R5.410
	August	1.939	R2.156 2.161	R1.557	R5.680
	uguot	1.333	2.101	1.548	5.661

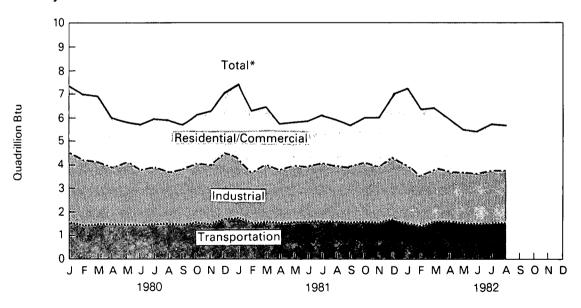
Geographic coverage: the 50 United States and District of Columbia. Totals may not equal sum of components due to independent rounding and the use of preliminary conversion factors after 1980. R=Revised data.

Consumption of Energy by End-Use Sector

Yearly



Monthly



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

Consumption of Energy by the Residential and Commercial Sector

	Ç.		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
					•	Quadrillion (10	¹⁵) Btu		
1973	TOTAL .		0.291	7.626	4.321	3.495	8.464	24.197	
1974	TOTAL		0.292	7.518	3.932	3.475	8.558	23.774	
1975	TOTAL	• •	0.238	7.581	3.760	3.604	8.736	23.920	
1976	TOTAL	•	0.227		4.160	3.747	9.005	25.004	
1977	TOTAL		0.225	7.461	4.148	3.955	9.615	25.405	
1978	TOTAL		0.239	7.624	4.062	4.116	9.950	25.990	
1979	TOTAL		0.210	7.891	3.687	4.184	10.101	26.073	
1980	January	•	0.021	R1.104	0.358	0.381	0.947	R2.812	R2.812
	February		0.019	R1.182	0.329	0.375	0.853	R2.758	R5.569
	March		0.013	R1.041	0.300	0.358	0.857	R2.570	R8.139
	April		0.014	0.707	0.245	0.319	0.742	2.028	R10.167
	May		0.009	. R0.444	0.238	0.298	0.772	R1.761	R11.927
	June		0.007√		0.224	0.334	0.872	R1.759	R13.686
	July		0.008	R0.254	0.225	0.410	1.068	R1.965	R15.652
	August September		0.008 0.011	R0.236	0.221	0.439	1.039	R1.943	R17.594
	October			R0.247	0.246	0.410	0.895	1.809	R19.403
	November		0.014	. R0.362 " R0.631	0.279	0.343	0.808	R1.806	R21.209
	December	, .	0.015	R1.010	0.271 0.343	0.322	0.785	R2.024	R23.233
	TOTAL					0.364	0.899	R2.636	R25.869
1981		•	0.160	R7.539	3.280	4.355	10.536	R25.869	
1961	January		0.022	R1.267	0.574	0.425	0.992	R3.080	R3.080
	February March		R0.018	R1.121	0.287	0.391	0.828	R2.644	R5.724
	April		0.012	R0.910	0.271	0.355	0.839	R2.386	R8.110
•	May		R0.012	R0.590 R0.421	0.229	0.325	0.755	R1.913	R10.023
	June		0.007		0.227 0.228	0.321	0.798	R1.779	R11.802
	July		0.007	R0.241	0.226	0.365 0.429	0.929	R1.821	R13.623
	August		R0.011	R0.236	0.227	0.429 R0.430	1.056	R1.964	R15.587
	September		R0.014	R0.246	0.233	0.383	R1.013	R1.914	R17.500
	October		0.015	R0.389		0.339	0.845 0.802	R1.722	R19.222
	November		R0.021	R0.583	0.259	0.327	0.802	R1.809 R1.987	R21.032
	December		R0.026	R0.941	0.300	0.368	0.970	R2.606	R23.019
	TOTAL		R0.183	R7.235	3.122	R4.458	R10.627	R25.625	R25.625
1982	January		0.024	R1.357	0.318	0.439	1.065		0.00.
- - ·	February		R0.017	1.234	0.316	0.439	0.882	3.204 B3.813	3.204
	March		R0.013	R0.954	0.266	0.408	0.882	R2.812	R6.016
	April .		R0.017	R0.715	0.263	0.346	0.822	2.506 R2.163	R8.522
	May		R0.011	0.385	0.231	0.327	0.839	R1.793	R10.685 R12.478
	June		R0.009	R0.284	0.217	0.357	0.900	R1.766	R14.244
	July		0.009	R0.250	0.212	0.412	R1.074	1.957	R16.201
	August		0.009	0.239	0.215	0.430	1.047	1.939	18.141

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

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

Consumption of Energy by the Industrial Sector

	• .	Coal	Natural Gas (Dry)	Petro- leum	Hydro- electric	Net Coke Imports	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Q	uadrillion (10)¹⁵) Btu			
1973	TOTAL	4.349	10.388	9.103	0.035	(0.008)	2.341	5.679	31.886	
1974	TOTAL	4.048	10.003	8.707	0.033	0.059	2.337	5.756	30.943	
1975	TOTAL	3.797	8.532	8.192	0.032	0.014	. 2.346	5.694	28.608	
1976	TOTAL	3.786	8.761	9.092	0.033	0.000	2.573	6.189	30.435	
1977	TOTAL	3.498	8.636	9.789	0.033	0.015	2.682	6.533	31.186	
1978	TOTAL	3.372	8.539	10.046	0.032	0.131	2.761	6.691	31.570	
1979	TOTAL	3.636	8.549	10.294	0.034	0.066	2.873	6.948	32.399	
1980	January	0.308	R0.832	0.895	0.003	0.003	0.230	0.572	R2.844	R2.844
	February	0.286	R0.677	0.798	0.003	(0.001)	0.234	0.532	R2.528	R5.372
	March	0.291	R0.704	0.790	0.003	(0.003)	0.236	0.564	R2.584	R7.956
	April	0.285	R0.552	0.726	0.003	(0.005)	0.232	0.539	R2.332	R10.287
	May	0.276	R0.612	0.750	0.003	(0.006)	0.229	0.594	R2.460	R12.747
	June	0.250	R0.578	0.721	0.003	(0.004)	0.228	0.595	R2.371 R2.343	R15.118
	July	0.229	R0.600	0.710	0.003	(0.004)	0.224 0.230	0.583 0.544	R2.343	R17.461
	August	0.231	R0.620	0.708 0.762	0.002 0.002	(0.003) (0.004)	0.230	0.544	R2.332	R19.794 R22.208
	September	0.225 0.253	R0.676 R0.837	0.792	0.002	(0.004)	0.237	0.517	R2.677	R24.886
	October November	0.263	R0.853	0.790	0.002	(0.000)	0.231	0.563	R2.670	R27.556
	December	0.286	R0.853	0.761	0.002	(0.002)	0.234	0.577	R2.804	R30.360
	TOTAL	3.181	R8.394	9.272	0.033	(0.037)	2.781	6.736	R30.360	1100.000
1981	January	0.301	R0.753	0.790	0.003	0.000	0.229	0.534	R2.609	R2.609
1501	February	0.278	R0.524	0.662	0.003	(0.001)	0.230	0.488	R2.184	R4.793
	March	R0.280	R0.691	0.690	0.003	(0.003)	0.234	0.554	R2.449	R7.242
	April	0.261	R0.589	0.640	0.003	(0.001)	0.232	0.541	R2.265	R9.507
	May	0.239	R0.667	0.698	0.003	0.000	0.234	0.582	R2.425	R11.932
	June	0.233	R0.616	0.671	0.003	(0.004)	0.244	0.623	R2.386	R14.318
	July	0.271	R0.640	0.674	0.003	0.000	0.245	0.602	R2.436	R16.754
	August	0.274	R0.667	0.662	0.002	0.000	0.246	R0.578	R2.431	R19.184
	September	0.267	R0.675	0.670	0.002	(0.002)	. 0.242	0.534	R2.389	R21.573
	October	0.269	R0.805	0.699	0.002	(0.003)	0.236	0.559	R2.567	R24.141
	November	0.271	R0.755	0.655	0.002	0.000	0.226	0.552	R2.461	R26.601
	December	0.272 .	R0.870	0.691	0.002	(0.003)	0.219	0.576	R2.627	R29.228
	TOTAL	R3.217	R8.252	8.203	0.033	(0.017)	2.817	R6.722	R29.228	
1982	January	0.274	R0.743	0.666	0.003	0.000	0.215	0.520	R2.420	R2.420
	February	0.255	R0.488	0.599	0.003	(0.001)	0.214	0.463	R2.021	R4.442
	March	0.246	R0.598	0.633	0.003	(0.002)	0.220	0.532	R2.230	R6.672
	April	R0.228	R0.490	0.635	0.003	(0.001)	0.214	0.508	R2.078	R8.750
	May	R0.220	R0.478	0.621	0.003	(0.003)	0.213	0.547	R2.080	R10.830
	June	R0.205	R0.524	0.604	0.003	(0.004)	0.217	0.547	R2.096	R12.926
	July	0.215	R0.520	0.650	0.003	(0.003)	0.214	0.558	R2.156	R15.082
	August	0.202	0.557	0.661	0.002	(0.001)	0.216	0.525	2.161	17.243

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

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

Consumption of Energy by the Transportation Sector

		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
				Qua	drillion (1015) Btu			
1973	TOTAL	0.003	0.743	17.745	0.009	0.021	18.520	
1974	TOTAL	0.002	0.685	17.317	0.009	0.022	18.035	
1975	TOTAL	0.001	0.595	17.547	0.010	0.025	18.177	
1976	TOTAL	(1)	0.559	18.469	0.010	0.025	19.064	
1977	TOTAL	(2)	0.543	19.157	0.010	0.025	19.736	
1978	TOTAL	(1)	0.539	20.044	0.009	0.022	20.614	
1979	TOTAL	(1)	0.612	19.786	0.010	0.025	20.434	
1980	January	(1)	R0.073	1.671	0.001	0.002	R1.747	R1.747
	February	(1)	R0.070	1.602	0.001	0.002	R1.674	R3.422
	March	(1)	0.068	1.623	0.001	0.002	1.694	R5.115
	April	(1)	0.050	1.578	0.001	0.002	R1.630	R6.746
	May	(1)	0.044	1.571	0.001	0.002	1.618	R8.364
	June	(1)	R0.041	1.516	0.001	0.002	R1.560	R9.924
	July	(1)	0.042	1.579	0.001	0.002	1.624	R11.548
	August	(1)	R0.042	1.543	0.001	0.002	R1.588	R13.136
	September	(1)	0.042	1.517	0.001	0.002	1.562	R14.698
	October	(1)	0.050	1.610	0.001	0.002	1.663	16.361
	November	(1)	R0.057	1.498	0.001	0.002	1.559	R17.920
	December	(1)	0.070	1.688	0.001	0.002	1.761	R19.680
	TOTAL	(1)	R0.648	18.996	0.011	0.026	R19.680	
1981	January	(1)	R0.077	1.703	0.001	0.003	R1.783	R1.783
	February	(1)	R0.065	1.446	0.001	0.002	R1.514	R3.298
	March	(1)	R0.065	1.548	0.001	0.002	R1.616	R4.914
	April	(1)	R0.050	1.491	0.001	0.002	R1.544	R6.458
	May	(1)	R0.048	1.517	0.001	0.002	R1.569	R8.027
	June	(1)	R0.044	1.569	0.001	0.002	R1.616	R9.643
	July	(1)	R0.045	1.584	0.001	0.003	R1.632	R11.275
	August	(1)	R0.044	1.540	0.001	0.002	R1.587	R12.863
	September	(1)	R0.043	1.505	0.001	0.002	R1.551	R14.414
	October	(1)	R0.051	1.552	0.001	0.002	R1.607	R16.021
	November	(')	R0.055	1.481	0.001	0.002	R1.539	R17.560
	December	(1)	R0.071	1.623	0.001	0.003	R1.697	R19.257
	TOTAL	(1)	R0.657	18.559	0.012	0.028	R19.257	
1982	January	(1)	R0.080	1.517	0.001	0.003	R1.601	R1.601
	February	(1)	R0.067	1.390	0.001	0.002	R1.460	R3.060
	March	(1)	R0.061	1.569	0.001	0.003	R1.634	R4.694
	April	(1)	R0.050	1.574	0.001	0.002	R1.627	R6.321
	May	(1)	R0.039	1.527	0.001	0.003	R1.569	R7.891
	June	(1)	R0.038	1.500	0.001	0.002	R1.541	R9.432
	July	(1)	0.039	R1.514	0.001	0.003	R1.557	R10.988
	August	(¹)	0.040	1.505	0.001	0.002	1.548	12.536

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

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

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

R=Revised data.

Energy Input at Electric Utilities

		Coal	Natural Gas (Dry)	Petro- leum¹	Hydro- electric power ²	Nuclear Electric Power	Other ³	Total Energy Input	Yearly Cumulative Energy Input
				٠	Quadrillion (1015) Btu			
1973	TOTAL	8.658	3.748	3.671	2.975	0.910	0.046	20.008	
1974	TOTAL	8.535	3.519	3.499	3.276 ⁻	1.272	0.056	20.156	
1975	TOTAL	8.786	3.240	3.231	3.187	1.900	0.072	20.416	
1976	TOTAL	9.720	3.152	3.454	3.032	2.111	0.081	21.549	
1977	TOTAL	10.243	3.284	4.028	2.482	2.702	0.082	22.821	
1978	TOTAL	10.236	3.297	3.813	3.110	3.024	0.068	23.548	
1979	TOTAL	11.264	3.609	3.357	3.107	2.715	0.089	24.141	
1980	January	1.073	0.286	0.277	0.280	0.210	0.008	2.134	2.134
	February	1.012	0.273	0.261	0.238	0.205	0.008	1.997	4.131
	March	0.994	0.294	0.238	0.270	0.213	0.008	2.017	6.148
	April	0.866	0.265	0.210	0.284	0.200	0.008	1.835	7.983
	May	0.883	0.291	0.199	0.317	0.196	0.010	1.896	9.879
	June	0.976	0.348	0.199	0.304	0.195	0.009	2.031	11.910
	July	1.143	0.435	0.204	0.272	0.224	0.010	2.287	14.197
	August	1.133	0.419	0.203	0.230	0.259	0.011	2.255	16.452
	September	1.020	0.369	0.203	0.209	0.251	0.010	2.063	18.515
	October	0.960	0.312	0.201	0.203	0.261	0.011	1.948	20.463
	November	0.973	0.264	0.215	0.217	0.223	0.011	1.903	22.366
	December	1.089	0.250	0.243	0.249	0.235	0.011	2.077	24.444
	TOTAL	12.122	3.807	2.654	3.074	2.672	0.114	24.444	
1981	January	1.165	0.239	0.264	0.252	0.253	0.011	2.184	2.184
	February	1.020	0.232	0.211	0.237	0.230	0.010	1.940	4.123
	March	1.031	0.283	0.192	0.233	0.234	0.011	1.984	6.108
	April	0.930	0.299	0.163	0.234	0.220	0.010	1.857	7.964
	May	0.958	0.327	0.165	0.270	0.210	0.010	1.939	9.904
	June	1.066	0.394	0.177	0.293	0.225	0.010	2.165	12.069
	July	1.196	0.425	0.178	0.280	0.246	0.011	2.335	14.404
	August	1.160	0.403	0.167	0.244	0.287	0.011	2.271	16.676
	September	1.032	0.336	0.165	0.204	0.260	0.011	2.008	18.684
	October	1.018	0.312	0.172	0.208	0.219	0.011	1.939	20.622
	November	1.001	0.268	0.169	0.216	0.242	0.010	1.905	22.528
	December	1.131	0.248	0.205	0.267	0.277	0.010	2.137	24.664
	TOTAL	12.707	3.764	2.228	2.937	2.901	0.127	24.664	
1982	January	1.220	0.246	0.198	0.299	0.273	0.009	2.244	2.244
· -	February	1.041	0.228	0.185	0.295	0.215	0.008	1.971	4.215
	March	1.020	0.255	0.174	0.330	0.242	0.007	2.027	6.242
	April	0.926	0.255	0.166	0.309	0.232	0.007	1.894	8.136
	May	0.971	0.267	0.142	0.311	0.230	0.008	1.929	10.066
	June	1.010	0.306	0.134	0.310	0.256	0.010	2.025	12.090
	July	1.178	0.365	R0.133	0.304	0.271	0.010	R2.261	14.352
	August	1.166	0.374	0.140	0.268	0,264	0.010	2.222	16.573

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

Based on deliveries to utilities.

Includes net imports of electricity.
Includes god thermal power and electricity produced from wood and waste.

R = Revised data.

Notes and Sources: • See the last two 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 which generate electricity primarily
- 2. Conversion Factors: See the inside back cover of this publication for factors applied in converting physical unit data into British thermal units (Btu)
- Coal: Coal is anthracite, bituminous coal, and lignite.
 Sources: Anthracite 1973 through 1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Minerals Yearbook, "Coal Pennsylvania Anthracite, Annual."

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

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

 • Electric Utilities consumption of coal—same as Note 7 below.
- 4. Natural Gas: Total natural gas consumption is estimated monthly based on a supply disposition balance calculation. Residential and commercial sector monthly consumption is estimated by allocating the EIA annual residential and commercial sector consumption to the months in proportion to the American Gas Association (AGA) monthly sales to the residential and commercial Sector. For incomplete years, the AGA monthly sales data are used temporarily. Monthly transportation consumption (which is natural gas for pipeline use) for complete years is estimated by allocating the EIA annual transportation total to the months based on each month's total natural gas consumption as a share of the annual total natural gas consumption. For incomplete years, each month's transportation total is estimated by applying the percentage of total natural gas accounted for by the transportation sector in the same month a year ago to the current month's total natural gas consumption. Electric utilities consumption of natural gas is available monthly from EIA Form 759 (formerly FPC Form 4), "Monthly Power 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.

ectric utilities sectors consumption from the total natural gas consumption.

Sources:

1973 through 1975: DOI, BOM, Minerals Yearbook, "Natural Gas" chapter.

1976 through 1978: DOE, EIA, Energy Data Reports, "Natural Gas, Annual."

1979: DOE, EIA, Natural Gas Production and Consumption 1979.

1980: DOE, EIA, Natural Gas Annual.

1981 forward: EIA estimates based on a supply/disposition balance calculation.

Electric utilities consumption—1973 through 1976: FPC Form 4, "Monthly Power Plant Report."

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

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

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

Sources for petroleum products supplied by individual products are:

- 1973 through 1975: DOI, BOM, Mineral Industry Surveys, "Petroleum Statement, Annual."
 1976 through 1980: DOE, EIA, Energy Data Reports, "Petroleum Statement, Annual."
 1981: DOE, EIA, Petroleum Supply Annual.
 1982: DOE, EIA, Petroleum Supply Monthly.

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

- Aviation gasoline All product supplied is assigned to the transportation sector.
- Asphalt All product supplied is assigned to the industrial sector.
- Distillate fuel—Total product supplied is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports as follows:

 — Residential deliveries are presented for 1979 and 1980. Prior to 1979, each year's subtotal of heating plus industrial is
 - split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;
 - -Commercial deliveries are presented for 1979 and 1980. Prior to 1979, each year's subtotal of heating plus industrial is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares;
 - Industrial sector deliveries for 1979 and 1980 are the sum of deliveries for industrial, farm, oil company, off-highway diesel, and all other uses. Prior to 1979, each year's heating plus industrial subtotal is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares, and this estimated industrial portion is added to oil
 - company, off-highway diesel, and all other uses;

 Transportation deliveries are the sum of railroad, vessel bunkering, on-highway diesel, and military uses for all years; and - Electric utility deliveries are presented for all years.
 - The 1980 shares are used as estimates for succeeding periods until deliveries for more recent periods are available.
- Jet fuel Small amounts in 1975 through 1977 are used by the industrial sector, and small amounts in all periods are consumed by the electric utility sector. All remaining jet fuel is consumed by the transportation sector.
- Kerosene Total product supplied is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports as follows:

 Residential deliveries are presented for 1979 and 1980. Prior to 1979, each year's category called "heating" is split into
 - residential, commercial, and industrial in proportion to the 1979 shares;
 - Commercial deliveries are presented for 1979 and 1980. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares; and
 - Industrial sector deliveries for 1979 and 1980 are the sum of deliveries for industrial, farm, and all other uses. Prior to 1979, each year's category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares, and this estimated industrial portion is added to all other uses.

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

Notes and Sources for the Consumption Section (continued)

5. Petroleum (continued):

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

Residential and commercial sales represent the residential and commercial sector;

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

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

 Lubricants Total product supplied is allocated to the industrial sector and the transportation sector for all months according to proportions developed from annual sales of lubricants to those two sectors from U.S. Department of Commerce, Bureau of the Census, *Current Industrial Reports*, "Sales of Lubricating and Industrial Oils and Greases." The 1973 shares are applied to 1973 and 1974; the 1975 shares are applied to 1975 and 1976; and the 1977 shares are applied to 1978 shares are applied to 1977 shares are applied to 1978 shares are appli
- Motor gasoline Total product supplied is allocated to the major end-use sectors in proportion to aggregations of sales categories formed from the U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, Tables MF-21, MF-24, and MF-25, as follows:

- Commercial sales are the sum of sales for public non-highway use, miscellaneous use, and unclassified use;

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

 • Petroleum coke—The portion consumed by the electric utility sector is from EIA Form 759, "Monthly Power Plant
- Report" (formerly FPC Form 4). The remaining portion is assigned to the industrial sector.
- Residual fuel Total product supplied is allocated to the major end-use sectors in proportion to annual deliveries grouped into end-use sectors from EIA's "Deliveries of Fuel Oil and Kerosene" reports as follows:

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

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

- Industrial sector deliveries for 1979 and 1980 are the sum of industrial, oil company, and all other uses. Prior to 1979, each year's heating plus industrial subtotal is split into commercial and industrial in proportion to the 1979 shares, and this estimated industrial portion is added to oil company and all other uses; Transportation deliveries are the sum of railroad, vessel bunkering, and military uses for all years; and

- Electric utility deliveries are presented for all years.

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

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

- All Other Petroleum Products The product supplied of all remaining petroleum products is assigned to the industrial 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: DOE, EIA, FPC Form 4, "Monthly Power Plant Report."
 1982 forward: DOE, EIA, EIA Form 759, "Monthly Power Plant Report."

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

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

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

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

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

- 8. Net Coke Imports: This is coke made from coal. Net imports means imports minus exports, and parentheses indicate that exports are greater than imports.
- Sources: 1973 through 1975, DOI, BOM, Minerals Yearbook, "Coke and Coal Chemicals, Annual."
 1976 forward: DOE, EIA, Energy Data Reports, "Coke and Coal Chemicals, Monthly."

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

 Sources: same as Note 7 above, for Nuclear.

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

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

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

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

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Crude Oil and Refined Petroleum Products*

Domestic crude oil production during September 1982 was estimated to be 8.7 million barrels per day, 0.4 percent above the rate in August 1982 and 1.5 percent above the rate in September 1981.

Total petroleum imports averaged 4.8 million barrels per day in September 1982, 7.7 percent lower than the August 1982 rate and 25.2 percent lower than the September 1981 rate.

In September 1982, 14.8 million barrels per day of petroleum products were supplied for domestic use, down 0.1 percent from the level in August 1982 and down 5.4 percent from the level of 1 year earlier. Motor gasoline accounted for 43.5 percent of the total; distillate fuel oil, 18.4 percent; and residual fuel oil, 9.6 percent.

Motor gasoline supplied during September 1982 averaged 6.4 million barrels per day, 3.2 percent lower than in August 1982 and 3.3 percent lower than 1 year earlier. Stocks of motor gasoline totaled 230 million barrels

at the end of September 1982, 4 million barrels above the inventories reported at the end of August 1982 but 7 million barrels below the September 1981 inventories.

In September 1982, 2.7 million barrels of distillate fuel oil were supplied per day, 22.1 percent higher than the August 1982 rate and 8.3 percent above the September 1981 level. Distillate fuel oil stocks were 154 million barrels at the end of September 1982, 5 million barrels lower than at the end of the previous month and 53 million barrels below the stock level 1 year earlier.

Residual fuel oil supplied in September 1982 averaged 1.4 million barrels per day, 7.2 percent lower than in August 1982 and 24.2 percent lower than the September 1981 rate. Residual fuel oil stocks measured 60 million barrels at the end of September 1982, 7 million barrels higher than at the end of the previous month but 20 million barrels below the ending stocks for the month of September 1981.







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

Petroleum

Crude Oil1 and Petroleum Products Overview

		Fi	eld Produc	tion	Stock 1	Withdrawal ²		Ending Stocks
		Total Domestic ³	Crude Oil	Natural Gas Plant Production	Crude Oil ⁴	Petroleum Products	Petroleum Products Supplied	Crude Oil* and Petroleum Products
				Thousand	barrels per d	lay		Million barrels
1973	AVERAGE	10,975	9,208	1,738	11	-146	17,308	‡1,008
1974	AVERAGE	10,498	8,774	1,688	-62	-117	16,653	‡1,074
1975	AVERAGE	10,045	8,375	1,633	-17	-145	16,322	‡1,133
1976	AVERAGE	9,774	8,132	1,603	-39	96	17,461	‡1,112
1977	AVERAGE	9,913	8,245	1,618	-170	-378	18,431	‡1,312
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	January	10,377	8,675	1,648	-594	270	18,851	1,351
	February	10,402	8,705	1,656	-292	563	18,817	1,343
	March	10,303	8,698	1,568	-47	-99	17,377	1,348
	April	10,356	8,685	1,630	-412	-229	16,784	1,367
	May	10,298	8,635	1,615	-117	-520	16,238	1,387
	June	10,164	8,554	1,561	65	-869	16,187	1,411
	July	10,113	8,547	1,524	88	-556	16,008	1,425
	August	9,974	8,414	1,519	-274	-473	15,753	1,449
	September	10,184	8,619	1,515	307	-259	16,598	1,447
	October	10,092	8,532	1,516	-191	756	16,995	1,430
	November	10,109	8,495	1,571	-8	-84	16,702	1,432
	December	10,204	8,606	1,560	304	993	18,410	1,392
	AVERAGE	10,214	8,597	1,573	-98	-42	17,056	
1981	January	10,231	8,540	1,652	50	1,159	18,430	1,388
	February	10,294	8,604	1,653	-278	250	16,989	1,389
	March	10,272	8,613	1,624	-632	224	15,907	1,401
	April	10,195	8,557	1,599	-595	148	15,350	1,415
	May	10,160	8,501	1,593	-391	-374	15,353	1,438
	June	10,287	8,629	1,594	-135	406	16,095	1,430
	July	10,098	8,500	1,548	-360	91	15,682	1,439
	August	10,243	8,583	1,614	397	-999	15,263	1,457
	September	10,281	8,604	1,612	-285	-341	15,655	1,476
	October	10,225	8,563	1,598	-760	477	15,822	1,485
	November	10,269	8,586	1,630	-325	-233	15,593	1,501.
	December	10,220	8,585	1,590	-170	745	16,596	1,484
	AVERAGE	10,230	8,572	1,609	-290	130	16,058	
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	R8,701	1,543	R-440	R4	R14,838	R1,407
	September†	NA	8,734	NA	-183	-524	14,816	1,427
	AVERAGE	NA	8,670	NA	-117	337	15,287	

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

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

Includes lease condensate.

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

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

Includes stocks located in the Strategic Petroleum Reserve.

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

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

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

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

Petroleum Crude Oil¹ and Petroleum Products Overview (continued)

			Imports ²			Exports ³		
		Total	Crude Oil⁴	Petroleum Products	Total	Crude Oil	Petroleum Products	Net Imports
					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 1981	January February March April May June July August September October November December AVERAGE January February March	8,598 7,945 7,452 7,106 6,579 6,894 6,257 6,192 6,239 6,379 6,408 6,894 6,909 6,827 6,772 6,028	6,406 6,013 5,695 5,598 5,106 5,480 4,843 4,803 4,707 4,768 4,680 5,082 5,263 4,932 4,873 4,521	2,192 1,931 1,757 1,508 1,472 1,414 1,414 1,389 1,532 1,611 1,728 1,812 1,646 1,895 1,899 1,507	550 558 573 434 591 654 531 319 557 598 549 622 544 558 569 586	322 332 330 192 326 365 238 78 322 309 289 343 287 339 198 210	228 227 243 241 266 289 293 241 235 288 260 279 258 219 371 376	8,048 7,386 6,879 6,672 5,987 6,240 5,727 5,873 5,682 5,781 5,859 6,272 6,365 6,270 6,203 5,442
	April May June July August September October November December AVERAGE	5,668 5,775 5,435 5,816 5,767 6,365 5,959 5,741 5,843 5,996	4,338 4,287 4,061 4,296 4,179 4,740 4,380 4,046 4,137 4,396	1,330 1,489 1,375 1,521 1,588 1,624 1,579 1,695 1,706	570 595 420 571 644 519 738 701 656 595	198 312 123 257 204 194 226 278 189 228	372 283 297 314 440 325 512 423 467 367	5,098 5,180 5,015 5,245 5,123 5,845 5,221 5,041 5,187 5,401
1982	January February March April May June July August September† AVERAGE	5,232 4,691 4,461 4,286 4,784 5,227 5,763 R5,156 <i>4,761</i> 4,933	3,648 2,949 2,856 2,813 3,314 3,782 4,245 R3,820 <i>3,419</i> 3,434	1,585 1,742 1,606 1,474 1,471 1,445 1,518 R1,336 1,342 1,500	829 804 882 786 803 703 741 858 NA	238 304 321 174 262 94 229 304 NA	591 499 561 611 542 609 512 554 NA	4,404 3,887 3,579 3,501 3,981 4,524 5,022 4,298 NA

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

Includes lease condensate.
Includes shipments from the U.S. possessions and territories.
Includes shipments to the U.S. possessions and territories.
Includes crude oil for storage in the Strategic Petroleum Reserve.
Net Imports equals Imports minus Exports.
Italics denote preliminary data. R=Revised data. NA=Not available.
Sources: See Notes and Sources on the last page of this section.

Petroleum

Crude Oil¹ Supply and Disposition

Su	p	pi	Ŋ
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					Cuppiy				
		Field Pro	duction		Imports ²		Stock W	ithdrawal ³	
		Total Domestic	Alaskan	Total	SPR4	Other	SPR4	Other	
				Thousa	nd barrels p	er day			
1973	AVERAGE	9,208	198	3,244		3,244		11	
1974	AVERAGE	8,774	193	3,477		3,477		-62	
1975	AVERAGE	8,375	191	4,105		4,105		-17	
1976	AVERAGE	8,132	173	5,287		5,287		-39	
1977	AVERAGE	8,245	464	6,615	21	6,594	-20	-150	
1978	AVERAGE	8,707	1,229	6,356	162	6,195	-163	84	
1979	AVERAGE	8,552	1,401	6,519	67	6,452	-67	-81	
		•		6,406	0	6,406	0	-594	
1980	January	8,675	1,634	•					
	February	8,705	1,630	6,013	0	6,013	0	-292	
	March	8,698	1,647	5,695	0	5,695	0	-47	
	April	8,685	1,649	5,598	0	5,598	0	-412	
	May	8,635	1,627	5,106	0	5,106	0	-117	
	June	8,554	1,626	5,480	0	5,480	0	65	
	July	8,547	1,612	4,843	0	4,843	0	88	
	•	8,414	1,612	4,803	Ŏ	4,803	0	-274	
	August			4,707	54	4,653	-54	361	
	September	8,619	1,610			4,637	-123	-68	
	October	8,532	1,588	4,768	131	•		181	
	November	8,495	1,561	4,680	142	4,538	-189		
	December	8,606	1,602	5,082	198	4,884	-177	481	
	AVERAGE	8,597	1,617	5,263	44	5,219	-45	-52	
1981	January	8,540	1,606	4,932	106	4,826	-151	201	
	February	8,604	1,619	4,873	80	4,793	-127	-150	
	March	8,613	1,618	4,521	140	4,382	-155	-477	
		8,557	1,608	4,338	272	4,066	-444	-151	
	April			•	386	3,901	-513	122	
	May	8,501	1,580	4,287			-434	299	
	June	8,629	1,632	4,061	318	3,743			
	July	8,500	1,605	4,296	175	4,121	-324	-36	
	August	8,583	1,602	4,179	257	3,922	-372	769	
	September	8,604	1,607	4,740	435	4,305	-486	201	
	October	8,563	1,596	4,380	453	3,927	-501	-259	
	November	8,586	1,614	4,046	271	3,774	-259	-66	
	December	8,585	1,623	4,137	165	3,971	-252	82	
	AVERAGE	8,572	1,609	4,396	256	4,141	-336	46	
1982	January	8,669	1,712	3,648	170	3,478	-159	-77	
	February	8,690	1,715	2,949	159	2,790	-213	-3	
	March	8,597	1,702	2,856	185	2,671	-235	170	
	April	8,652	1,687	2,813	190	2,623	-233	341	
	May	8,660	1,725	3,314	204	3,110	-176	225	
	June	8,681	1,675	3,782	105	3,678	-105	191	
		8,649	1,715	4,245	97	4,147	-97	-58	
	July			4,245 R3,820	R208	R3,611	R-208	R-233	
	August	R8,701	R1,699	•		,		n-233 -46	
	September†	8,734	1,708	3,419	135	3,284	-137		
	AVERAGE	8,670	1,704	3,434	162	3,272	-173	56	

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
*Includes lease condensate.
*Includes shipments from U.S. possessions and territories.
*A negative number indicates an increase in stocks and a positive number indicates a decrease.
*Strategic Petroleum Reserve.
†Italics denote preliminary data. R = Revised data.
*Sources: • See Notes and Sources on the last page of this section.

Petroleum

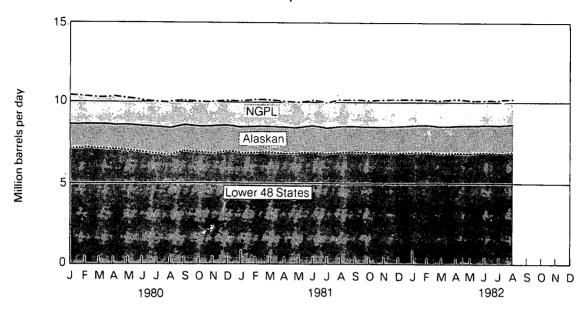
Crude Oil¹ Supply and Disposition (continued)

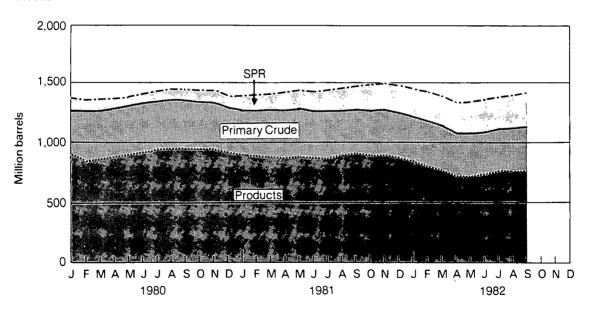
		Supply		Disposition		E	Ending Stocks	
		Unaccounted for Crude Oil	Crude Used Directly and Losses	Refinery Inputs	Exports ²	Total	SPR ³	Other Primary
			Thousand barre	els per day		1	Million barr	els
1973	AVERAGE	3	-32	12,431	2	‡242		‡242
1974	AVERAGE	-25	-28	12,133	3	‡265		‡265
1975	AVERAGE	17	-30	12,442	6	‡271		‡271
1976	AVERAGE	77	-33	13,416	8	‡285		‡285
1977	AVERAGE	-6	-30	14,602	50	‡348	‡7	‡340
1978	AVERAGE	-57	-30	14,739	158	‡376	‡67	‡309
1979	AVERAGE	-11	-29	14,648	235	‡430	‡91	‡339
1980	January February	166 124	-31 -31	14,301 14,187	322 332	449 457	91 91	358 366
	March April	-278 -165	-30 -29	13,709 13,484	330 192	459 471	91 91	367 380
	May	55	-28	13,326	326	475	91	383
	June	1	-30	13,705	365	473	91	381
	July	52	-29	13,264	238 78	470 478	91 91	379 387
	August September	147 27	-28 -26	12,984 13,313	322	469	93	376
	October	-3	-25	12,772	309	475	97	379
	November	266	-26	13,119	289	475	102	373
	December	24	-26	13,648	343	466	108	358
	AVERAGE	34	-28	13,481	287			
1981	January	113	-49	13,247	339	486	112	374
	February	-41	-58	12,902	198	494	116	378
	March	154	-63	12,383	210	514	121	393
	April	51	-62	12,091	198	532	134 150	397 394
	May June	286 49	-62 -65	12,309 12,415	312 123	544 548	163	385
	July	147	-65	12,261	257	559	173	386
	August	16	-63	12,908	204	547	185	362
	September	-295	-65	12,505	194	555	199	356
	October	166	-66	12,057	226	579	215	364
	November	279	-68	12,240	278	589	223	366
	December	52	-67	12,349	189	594	230	363
	AVERAGE	83	-63	12,470	228			
1982	January	-138	-66	11,638	238	606	235	371
	February	199	-66	11,252	304	612	241	371
	March April	278 56	-68 -68	11,277 11,386	321 174	614 611	249 256	366 355
	May	105	-65	11,801	262	609	261	348
	June	110	-67	12,498	94	607	264	343
	July	1	-63	12,447	229	612	267	345
	August	140	-59	R11,858	304	R625	274	R352
	September†	NA	NA	12,311	NA	<i>635</i>	278	<i>358</i>
	AVERAGE	NA	NA	11,833	NA			

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

Overview

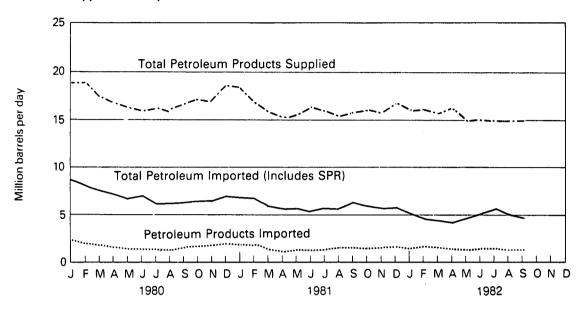
Production of Crude Oil and Natural Gas Plant Liquids



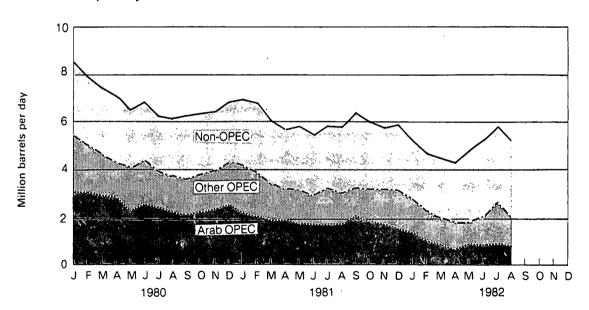


Overview

Products Supplied and Imports



Petroleum Imports by Source



Petroleum
Crude Oil and Petroleum Product Imports from OPEC Sources

		Algeria	Libya	Saudi Arabia	United Arab Emirates	Indo- nesia	Iran	Nigeria	Vene- zuela	Other OPEC ¹	Total OPEC	Total Arab OPEC ²
		•	•			Thousa	nd barrel	s per day				
1973	AVERAGE	136	164	486	71	213	223	459	1,135	106	2,993	915
1974	AVERAGE	190	4	461	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	January	503	618	1,576	202	454	95	1,054	786	179	5,467	3,034
	February	656	603	1,412	304	317	9	1,036	543	152	5,031	3,058
	March	472	654	1,380	289	405	0	924	352	175	4,652	2,889
	April	546	683	1,300	150	374	0	734	343	240	4,369	2,862
	May	441	468	1,149	172	360	0	955	405	147	4,098	2,329
	June	497	561	1,328	178	331	0	998	409	106	4,408	2,598
	July	557	492	1,192	158	365	0	752	417	62	3,995	2,418
	August	432	431	1,139	142	289	0	792	406	112	3,743	2,222
	September	375	505	1,112	107	299	0	735	425	111	3,670	2,185
	October	465	478	1,044	182	348	0	728	482	95	3,821	2,226
	November	493	500	1,201	105	348	0	624	595	78	3,944	2,338
	December	423	658	1,301	83	288	0	958	610	101	4,423	2,484
	AVERAGE	488	554	1,261	172	348	9	857	481	130	4,300	2,551
1981	January	341	500	1,284	93	424	0	908	549	27	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
	AVERAGE	142	36	616	114	247	21	547	368	99	2,191	927

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

Petroleum Crude Oil and Petroleum Product Imports from Non-OPEC Sources

					Netherlands	Trinidad and	United	Puerto	Virgin		
		Bahamas	Canada	Mexico	Antilles	Tobago	Kingdom	Rico	Islands ¹	Other ²	Total
					Thou	sand barre	ls 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	January February	175 111	570 540	545 477	289 205	239 192	296 105	57 95	467 536	492 652	3,131 2,914
	March	124	460	460	184	189	232	101	449	601	2,800
		56	459	546	231	143	182	76	425	619	2,737
	April	77	419	576	176	221	124	88	303	496	2,481
	May	77	409	627	197	162	146	91	314	465	2,486
	June	43	378	460	242	180	115	90	378	376	2,262
	July	62	319	646	255	159	196	85	264	463	2,449
	August		458	550	213	205	218	52	343	473	2,569
	September	58 70	436 475	605	230	114	134	107	372	450	2,557
	October		475	459	264	158	157	108	391	435	2,464
	November	22		459 445	212	149	199	109	423	378	2,404
	December	54	502								
	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
	AVERAGE	49	459	638	170	119	381	46	322	582	2,764

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

1U.S. possessions.

2Includes all non-OPEC countries except those shown above.
Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.

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

Petroleum

Finished Motor Gasoline Supply and Disposition

			Supply		•	Dis	sposition	•	Ending Stocks	
						P	roduct Suppl	ied	Total	Finished
		Total Production	Imports ¹	Stock Withdrawal ^{1 2}			Unleaded ³	Unleaded Percent	Motor Gasoline⁴	Motor Gasoline
				Thousand	d barrels pe	er day		of Total	Million	barrels
1973	AVERAGE	6,535	134	9	4	6,674			209	
1974	AVERAGE	6,360	204	-24	2	6,537			218	
1975	AVERAGE	6,520	184	-28	2	6,675			235	
1976	AVERAGE	6,841	131	10	3	6,978			231	
1977	AVERAGE	7,033	217	-72	2	7,177	1,976	27.5	258	
1978	AVERAGE	7,169	190	54	1	7,412	2,521	34.0	238	
1979	AVERAGE	6,852	181	2	(s)	7,034	2,798	39.8	237	
1980	January	6.991	141	-809	1	6,323	2,718	43.0	262	
1300	February	6,866	154	-423	(s)	6,596	2,969	45.0 45.0	275	
	March	6,519	155	-267	(s)	6,406	3,032	47.3	283	
	April	6,284	155	362	(5)	6,800	3,021	47.3 44.4		
	•								272	
	May	6,316	132	283	1	6,729	2,980	44.3	263	
	June	6,569	148	-59	1	6,657	3,099	46.6	265	
	July	6,465	149	-132	3	6,743	3,131	46.4	261	
	August	6,452	141	56	1	6,648	3,135	47.2	259	
	September	6,383	106	28	7	6,510	3,054	46.9	258	
	October	6,131	152	380	1	6,662	3,110	46.7	247	
	November	6,467	126	-359	(s)	6,234	3,123	50.1	257	
	December	6,644	121	-133	1	6,632	3,421	51.6	261	
	AVERAGE	6,506	140	-66	1	6,579	3,067	46.6		
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	Ìά	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	200	400
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	R6,447	284	-60	16	R6,655	3,520	52.9	R226	185
	September†	6,497	NA	NA	NA	6,440	NA	NA	230	NA
	AVERAGE	6,340	NA	NA NA	NA				200	14/1
	AVERAGE	0,340	IAN	An	MA	6,542	NA	NA		

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

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

Beginning in 1981, excludes blending components.

A negative number indicates an increase in stocks and a positive number indicates a decrease. ³Includes gasohol.

³Includes gasohol.

⁴Includes motor gasoline blending components. Ending stocks for 1973-1979 are totals as of December 31. †

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

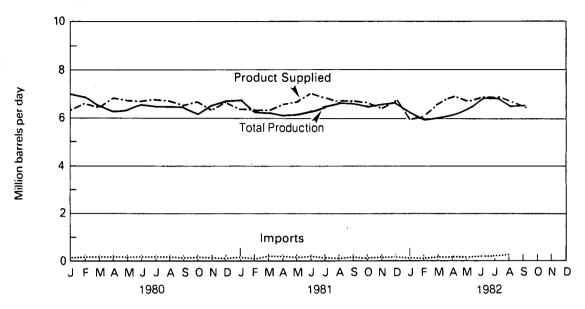
Notes: Beginning in 1981, survey forms were modified. See Note 2 on the last page of the section.

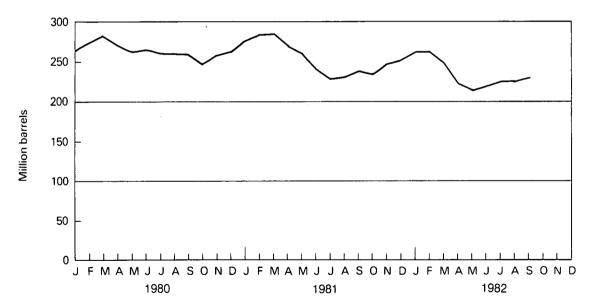
Annual stock changes for 1975 and 1981 were calculated using expanded stock coverage.

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

Motor Gasoline

Product Supplied, Total Production, and Imports





Petroleum

Distillate Fuel Oil Supply and Disposition

			Sup	ply	• .	Disposition		Ending Stocks	
		Total Production	Imports	Stock Withdrawal ¹	Crude Used Directly	Exports	Product Supplied		
				Thousand ba	arrels per day			Million barrels	
1973	AVERAGE	2,822	392	-115	2	9	3,092	‡196	
1974	AVERAGE	2,669	289	-9	2	2	2,948	‡200	
1975	AVERAGE	2,654	155	40	2	1	2,851	‡209	
1976	AVERAGE	2,924	146	62	1	′ 1	3,133	‡186	
1977	AVERAGE	3,278	250	-176	1	1	3,352	‡ 250	
1978	AVERAGE	3,167	173	93	1	3	3,432	‡ 216	
1979	AVERAGE	3,153	193	-34	1	3	3,311	‡ 229	
1980	January	3.014	179	526	1	7	3,714	212	
	February	2,766	237	716	1	8	3,712	192	
	March	2,558	193	445	1	- 19	3,179	178	
	April	2,461	154	21	2	2	2,635	177	
	May	2,474	126	-199	· 1	1	2,402	183	
	June	2,647	108	-439	1	(s)	2,317	197	
	July	2,690	117	-557	2	`á	2,249	214	
	August	2,462	77	-403	2	(s)	2,137	226	
	September	2,686	101	-201	2	(s)	2,587	232	
	October	2,590	115	215	1	(s)	2,920	226	
	November	2,703	133	111	1	(s)	2,949	222	
	December	2,891	166	556	1	(s)	3,615	205	
	AVERAGE	2,662	142	64	1	3	2,866		
1981	January	2,989	273	836	11	(s)	4,109	179	
	February	2,809	325	246	11	ì <i>†</i>	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 AVERAGE	2,856 2,613	95 173	277 38	11 10	26 5	3,212	192	
1982		2,615	96			_	2,829	400	
1902	January February	2,615	130	780 689	10	90	3,410	166	
	March	2,447 2,294	48	689 612	11 10	90 84	3,187	147	
	April	2,357	59	631	13	64	2,881	128 109	
	May	2,618	74	-184	10	75	2,996 2,444	109	
	June	2,731	100	-335	10	75 55	2,444 2,450		
	July	2,734	124	-761	11	24	2,450	125 148	
	August	R2,526	R79	R-346	10	40	R2,228	R159	
	September†	2,634	72	46	NA	NA	2,721	154	
	AVERAGE	2,552	87	120	NA	NA	2,706	704	

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

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

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

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

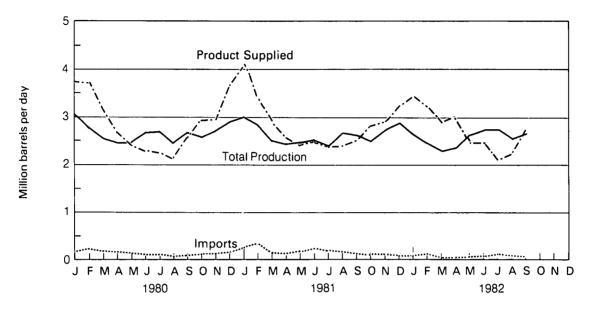
Italics denote preliminary data. R = Revised data. NA = Not available. (s) = Less than 500 barrels per day. Notes: Beginning in 1981, survey forms were modified. See Note 3 on the last page of this section.

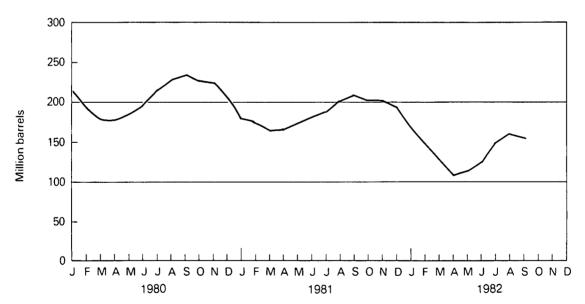
Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

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

Distillate Fuel Oil

Product Supplied, Total Production, and Imports





Petroleum Residual Fuel Oil Supply and Disposition

			Sup	pply		Disposition		Ending Stocks	
		Total Production	Imports	Stock Withdrawal ¹	Crude Used Directly	Exports	Froduct Supplied		
				Thousand ba	rrels per day			Million barrels	
1973	AVERAGE	971	1,853	5	17	23	2,822	‡53	
1974	AVERAGE	1,070	1,587	-17	13	14	2,639	‡60	
1975	AVERAGE	1,235	1,223	2	15	15	2,462	‡74	
1976	AVERAGE	1,377	1,413	5	17	12	2,801	‡72	
1977	AVERAGE	1,754	1,359	-48	13	6	3,071	190	
1978	AVERAGE	1,667	1,355	-1	13.	13	3,023	190	
1979	AVERAGE	1,687	1,151	-15	12	9	2,826	196	
		,	•				•	•	
1980	January	1,771	1,338	-51	14	5	3,067	97	
	February	1,773	1,122	214	14	17	.3,105	91	
	March	1,584	976	87	14	2	2,658	88	
	April	1,595	775	102	13	40	2,444	85	
	May	1,509	812	-78	12	20	2,235	88	
	June	1,575	749 787	-4 71	14	14	2,321	88	
	July	1,480		-43	13 13	60	2,291	86	
	August	1,444	875 906			2	2,286	87	
	September	1,495	906 875	-31 -100	10 9	21 70	2,359	88	
	October November	1,512 1.579		-100 -74	10		2,227	91	
	December		1,024	-74 46	10	88	2,451	93	
	AVERAGE	1,660	1,025			62	2,679	92	
4004		1,580	939	10	12	33	2,508		
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 September	1,231	819 841	-179	50	69	1,852	75 20	
	October	1,292 1,238	786	-176	51	126	1,882	80	
	November	1,227	880	-49	54 . 53	202 203	1,884	80	
	December	1,329	916	110	53 52	157	1,909	81 78	
	AVERAGE	1,321	800	37	48	118	2,250 2,088	76	
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	R1,007	R519	R200	47	235	R1,538	R53	
	September†	1,094	818	<i>-297</i>	NA	NA	1,427	60	
	AVERAGE	1,104	744	61	NA	NA	1,738		

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

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

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

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

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

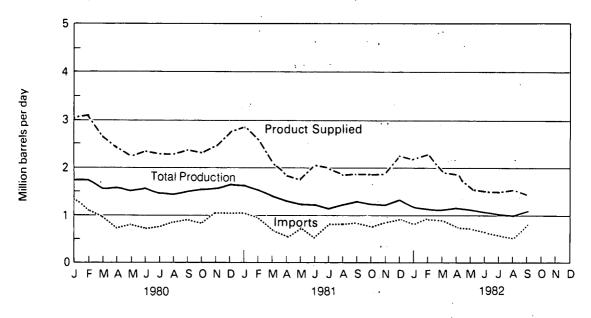
Notes: Beginning in 1981, survey forms were modified. See Note 3 on the last page of this section.

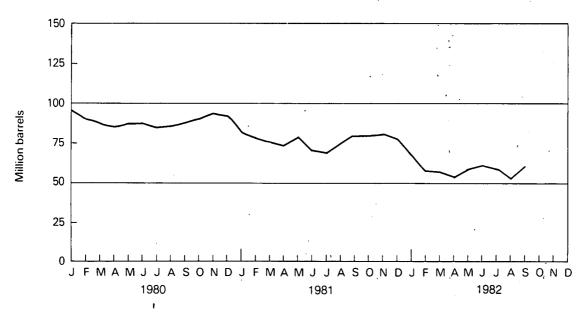
Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

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

Residual Fuel Oil

Product Supplied, Total Production, and Imports





PetroleumLiquefied Petroleum Gases and Ethane Supply and Disposition

			Supply		Disposition			Ending Stocks	
		Total Production	Imports	Stock Withdrawal ¹	Refinery Inputs	Exports	Product Supplied		
				Thousand bar	rels per day			Million barrels	
1973	AVERAGE	1,600	132	-35	220	27	1,449	‡99	
1974	AVERAGE	1,565	123	-38	220	25	1,406	‡113	
1975	AVERAGE	1,527	112	-35	246	26	1,333	‡125	
1976	AVERAGE	1,535	130	24	260	25	1,404	‡11 6	
1977	AVERAGE	1,566	161	-55	233	18	1,422	‡136	
1978	AVERAGE	1,537	123	12	239	20	1,413	‡132	
1979	AVERAGE	1,556	217	70	236	15	1,592	‡111	
1980	January	1,560	264	461	291	30	1.963	96	
1000	February	1,581	252	209	252	26	1,764	90	
	March	1,519	214	7	211	23	1,506	90	
	April	1,546	186	-339	171	19	1,203	100	
	May	1,538	181	-224	182	17	1,295	107	
	June	1,528	184	-319	170	18	1,205	117	
	July	1,485	172	-283	209	18	1,147	126	
	August	1,507	158	-296	203	17	1,149	135	
	September	1,495	213	-80	228	19	1,382	137	
	October	1,546	249	86	259	24	1,502	134	
	November	1,549	231	82	304	23	1,535	132	
	December	1,567	289	373	319	23	1,888	120	
	AVERAGE	1,535	216	- 27	233	21	1,469	120	
1981		1,617	306	363	352	21	1,913	117	
1981	January	•	327				*		
	February	1,593	260	173 -4	303 257	21 20	1,769	112	
	March	1,551	214	-4 -236			1,530	112	
	April	1,586	214 189	-236 -258	231	26	1,308	119	
	May	1,587 1.567	206	-256 -208	220 237	19 24	1,279	127 133	
	June		213				1,304		
	July	1,507		-258	215	17	1,229	141	
	August September	1,592 1,622	195 199	-242 -75	235 287	149 21	1,160	149 151	
	October	1,593	287	-75 72		21 76	1,438		
	November	1,593	280	7 <i>2</i> 86	320 383	76 58	1,556	149 146	
	December	1,468	255	379	363 428	50	1,495 1,624	135	
	AVERAGE	1,571	233 244	-18	289	42	1,624 1,466	135	
1982	January	1,546	314	480	398	67	•	100	
1902	February	,	291	310		51	1,873	122	
	March	1,476 1,523	223	310 145	327 289	51 74	1,699 1,528	114 109	
	April	1,566	223 188	145	289 257	74 77		109	
	May	1,583	186	-61	237 235	43	1,527 1,431	108	
	•		192	-61 -109	235 262	_	•		
	June	1,571 1,556	227	-109 -5		106	1,286	111	
	July August	1,591	125	-5 -44	253 254	37 61	1,487	111	
	August						1,357	112	
	AVERAGE	1,552	218	101	284	65	1,522		

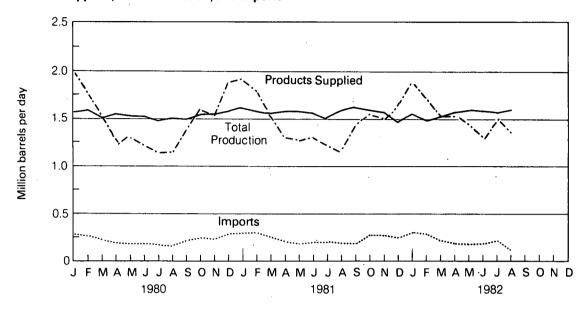
Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.

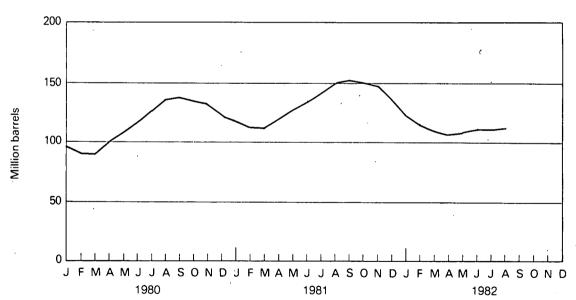
A negative number indicates an increase in stocks and a positive number indicates a decrease.
Ending stocks for 1973 – 1979 are totals as of December 31.

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

Liquefied Petroleum Gases and Ethane

Product Supplied, Total Production, and Imports





Petroleum

Other Petroleum Products¹ Supply and Disposition

			Supply		Disposition			Ending Stocks
		Total Production	Imports	Stock Withdrawal ²	Refinery Inputs	Exports	Product Supplied	
				Thousand bar	rels per day .			Million barrels
1973	AVERAGE	3,693	502	-9	750	166	3,270	‡208
1974	AVERAGE	3,558	432	-28	665	174	3,123	‡218
1975	AVERAGE	3,424	277	-2	537	160	3,002	‡ 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	January	4,157	269	135	591	186	3,785	234
1300	•	4,181	167	-153	380	174	3,641	239
	February		219	-370	149	200		259 250
	March	4,128					3,627	
	April	4,105	238	-374	86	180	3,703	261
	May	4,018	222	-301	135	227	3,577	271 .
	June	4,016	226	-49	250	256	3,687	272
	July	3,873	188	82	356	209	3,578	270
	August	3,753	139	212	351	221	3,532	263
	September	3,952	206	25	234	188	3,761	262
	October	3,737	220	175	351	193	3,588	257
	November	3.787	213	156	475	148	3,533	252
	December	3,792	209	151	362	194	3,596	247
	AVERAGE	3,956	210	-23	311	198	3,634	
1981	January	3,821	162	80	851	132	3,081	296
	February	3,723	182	-200	538	208	2,958	302
	March	3,722	230	-55	642	210	3,043	304
	April	3,711	230	24	733	192	3,040	303
	May	3,892	229	-58	594	238	3,231	305
	June	3,925	218	-29	656	197	3,261	306
	July .	3,852	149	284	791	212	3,282	297
	August	3.876	276	-33	676	219	3,225	298
	September	3,718	286	215	883	176	3,159	291
	October	3,503	241	193	710	227	3,000	285
	November	3,579	262	33	710 784	154	2,935	- 284
	December	3,543	243	71	805	223	2,829	282
	AVERAGE	3,739	226	46	723	199	2,029 3,088	202
4000		•		•			•	•••
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
	AVERAGE	3,413	297	33	767	188	2,788	

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

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

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

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

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

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

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

Notes and Sources for the Petroleum Section

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

previously not reported.

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

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

January 1982 through August 1982: 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

• Domestic production for the most recent frionth 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).

			r	

Natural Gas

Total dry natural gas production, including nonhydrocarbon gases, in the United States during September 1982 was an estimated 1.4 trillion cubic feet (Tcf). This was 3.6 percent less than in August 1982 and 8.5 percent lower than in September 1981. Output during the first 9 months of 1982 totaled 13.6 Tcf, 7.0 percent less than during the first three quarters of 1981.

Consumption of natural and supplemental gas in September 1982 was an estimated 1.2 Tcf, almost the same as in August 1982 but 7.1 percent less than in September 1981. Estimated consumption during the period January through September 1982 totaled 13.4 Tcf, 5.7 percent lower than during the comparable 1981 period.

Imports of natural gas in September 1982 were an estimated 71 billion cubic feet (Bcf), 6.0 percent higher than in the previous September. During the first 9 months of 1982, imports of natural gas totaled an estimated 703 Bcf, 8.3 percent more than during the comparable 1981 period. Receipts of foreign gas during the first three quarters of 1982 included Algerian liquefied natural gas equivalent to approximately 28 Bcf.

Domestic producer sales to major interstate pipelines in July 1982 (latest data available) totaled 778 Bcf, 12.5 percent less than during the previous July. Total sales during the first 7 months of 1982 were 6.1 Tcf, 3.7 percent lower than during the comparable 1981 period.

Stocks of working gas* in underground natural gas storage reservoirs at the end of September 1982 totaled 3.3 Tcf, 3.1 percent above stocks available a year earlier. Net additions to storage during September 1982 were 251 Bcf, 9.4 percent lower than during the previous September.

Natural Gas

^{*}Gas available for withdrawal.

Natural Gas

Total Tota			Production					•		
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 19,464 964 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 January 1,838 1,768 H17 H17 H17 H2,238 H8 6 991 February 1,838 1,768 H17 H17 H16 H6 H2,054 H19 H1,595 H19 April 1,686 1,622 H15 H1 H1,357 70 3 985 May 1,712 1,647 H15 H10 H1,285 61 3 791 June 1,602 1,541 H15 H10 H1,285 61 3 791 July 1,633 1,571 H16 H0 H1,285 61 3 791 July 1,633 1,571 H16 H0 H1,285 61 3 822 September 1,596 H1,603 H1,603 H14 H2 H1,521 H3,527 F1,55 H16 December 1,596 H1,605 H16 H1 H1,761 H8 H1,761 H1,7					carbon Gases	Gaseous	Domestic	Imports	Exports	Producer Sales to Major Interstate
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 19,521 1,011 56 9,883 1977 TOTAL 20,025 19,163 NA NA 19,521 1,011 56 9,883 1978 TOTAL 19,974 19,122 NA NA 19,521 1,011 56 9,883 1978 TOTAL 20,471 19,663 NA NA 19,521 1,011 56 9,883 1979 TOTAL 20,471 19,663 NA NA 20,241 1,253 56 10,496 1980 January 1,838 1,768 R17 R17 R2,238 118 6 991 February 1,725 1,659 R16 R16 R2,147 108 5 988 March 1,847 R1,776 R16 16 R2,147 108 5 988 April 1,686 1,622 R15 12 R1,535 77 3 885 April 1,686 1,622 R15 12 R1,535 77 3 885 July 1,531 R16 10 R1,255 61 3 791 July 1,633 1,571 R16 10 R1,255 61 3 791 July 1,533 1,571 R16 10 R1,255 61 3 791 August 1,592 1,531 R16 10 R1,252 60 3 822 Nochember 1,586 R1,600 R14 12 R1,525 61 3 822 Nochember 1,669 R1,605 R16 14 R1,761 R18 R16 R2,129 98 5 969 10 December 1,816 1,747 R18 R16 R2,129 98 5 969 10 December 1,816 1,747 R18 R16 R2,129 98 5 969 10 December 1,816 1,747 R18 R16 R2,129 98 5 969 10 December 1,816 1,747 R18 R16 R2,129 98 5 969 10 December 1,816 1,747 R18 R16 R2,129 98 5 809 900 Pay 1,753 R1,500 R17 R17 R1,900 80 5 R842 April R1,605 R18 R19 R1,724 R1,606 R18 R17 R1,900 80 5 R842 April R1,605 R18 R19 R1,200 80 5 R842 April R1,606						Billion cub	ic feet			
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 19,546 964 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 January 1,838 1,768 R17 R17 R2,238 118 6 981 February 1,725 1,659 R16 R16 R2,147 108 5 988 April 1,886 1,622 R15 12 R2,054 109 5 958 April 1,896 1,622 R15 12 R2,054 109 5 958 April 1,803 1,571 R16 R10 R1,255 61 3 895 June 1,602 1,541 R15 R10 R1,255 61 3 895 July 1,833 1,571 R16 10 R1,255 61 3 895 August 1,592 1,531 R16 10 R1,285 61 3 822 August 1,592 1,531 R16 10 R1,282 60 3 825 September 1,596 R1,635 R16 10 R1,282 60 3 825 September 1,683 R1,600 R14 12 R1,522 75 5 881 November 1,683 R1,600 R14 12 R1,522 75 5 881 November 1,683 R1,600 R14 12 R1,522 75 5 881 November 1,683 R1,600 R14 12 R1,522 75 5 881 November 1,868 R1,605 R16 H4 R1,761 88 3 900 December 1,816 1,747 R18 R16 R2,129 98 5 969 TOTAL 20,379 R1,593 R1,590 R19 R1,591 R1,590 R1,591 R1,591 R1,590 R1,591 R1,591 R1,590 R1,591 R1,591 R1,591 R1,590 R1,591 R1,	1973	TOTAL	22,648	21,731	NA	NA	22,049	1.033	77	12 067
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 19,527 966 53 9,911 1979 TOTAL 20,471 19,663 NA NA 20,241 1,253 56 10,496 1980 January 1,838 1,768 R17 R17 R2,238 118 6 981 March 1,847 R1,776 R16 16 R2,147 108 5 898 March 1,847 R1,776 R16 16 R2,054 109 5 958 April 1,686 1,622 R15 12 R1,535 77 3 895 May 1,712 1,647 R17 R11 R1,357 70 3 895 May 1,712 1,647 R17 R11 R1,357 70 3 895 June 1,602 1,541 R15 R10 R1,255 61 3 791 July 1,633 1,571 R16 10 R1,255 61 3 822 August 1,592 1,531 R16 10 R1,295 61 3 822 September 1,586 R1,535 R16 10 R1,295 61 3 825 September 1,669 R1,605 R16 14 R1,761 88 3 900 December 1,816 1,747 R18 R16 R2,129 98 5 968 1981 January 1,772 1,704 R20 R20 R20 R2279 98 5 968 April R1,692 R1,627 R17 R14 R1,894 85 5 R869 April R1,692 R1,627 R17 R14 R1,894 89 5 969 April R1,693 R1,590 R19 R1,22 R19,877 985 49 10,578 1981 January 1,772 1,704 R20 R20 R20 R2,279 91 5 R869 April R1,692 R1,627 R17 R14 R1,894 89 5 969 April R1,692 R1,627 R17 R14 R1,894 89 5 969 April R1,692 R1,627 R17 R14 R1,894 89 5 R869 April R1,692 R1,627 R17 R14 R1,894 89 5 969 December R1,666 R1,650 R18 R13 R1,426 69 5 977 August R1,724 R1,658 R18 R12 R1,300 65 5 877 August R1,724 R1,658 R18 R12 R1,300 65 5 877 August R1,724 R1,658 R18 R12 R1,300 65 5 877 August R1,724 R1,658 R18 R12 R1,300 65 5 877 TOTAL R20,178 R1,500 R14 R19 R15 R1,619 82 5 904 August R1,724 R1,658 R18 R12 R1,314 64 5 864 October R1,660 R1,599 R17 R15 R16 R1,404 904 59 R10,929 1982 July R1,531 R1,650 R18 R19 R19 R1,619 R2,77 93 5 1,055 TOTAL R20,178 R1,500 R1,442 R15 R10 R1,627 P7 4 853 June R1,500 R1,442 R15 R10 R1,627 P7 4 853 June R1,500 R1,442 R15 R10 R11 R1,439 69 4 809 1982 July R1,553 R1,550 R18 R16 R11 R1,143 67 5 778 August R1,524 R1,655 R16 R11 R1,143 67 5 778 August R1,525 R16 R11 R1,130 69 4 R10,929 1982 July R1,550 R1,442 R15 R10 R11 R1,143 67 5 778 August R1,547 R1,455 R16 R11 R1,143 67 5 778 August R1,547 R1,455 R16	1974	TOTAL	21,601	20,713	NA	NA	21,223	•		•
1976 TOTAL 19,952 19,098 NA NA 19,946 984 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 January 1,838 1,768 R17 R17 R2,234 118 6 981 March 1,847 R1,776 R16 16 R2,147 108 5 898 March 1,847 R1,776 R16 16 R2,054 109 5 958 April 1,686 1,622 R15 12 R1,535 77 3 895 June 1,772 1,647 R17 R11 R1,357 70 3 851 July 1,633 1,571 R16 10 R1,295 61 3 791 July 1,633 1,571 R16 10 R1,295 61 3 822 August 1,592 1,531 R16 10 R1,295 61 3 825 September 1,596 R1,535 R16 10 R1,295 60 5 797 October 1,663 R1,535 R16 10 R1,295 60 5 797 November 1,669 R1,605 R16 14 R1,761 88 3 900 TOTAL 20,379 19,602 R195 155 19,877 985 49 10,578 1981 January 1,772 1,704 R20 R20 R2,279 91 5 R866 April R1,693 R1,505 R16 R17 R17 R18,894 85 5 R869 April R1,693 R1,690 R14 R17 R17 R18,894 85 5 R869 April R1,693 R1,590 R19 R1,591 R1,590 R17 R18 R16 R2,129 85 969 TOTAL 20,379 R1,696 R1,695 R16 R1 R1,761 R1,990 R1,591 R1,590 R17 R1,791 R1,894 85 5 R869 April R1,692 R1,695 R16 R1 R17 R1,894 85 5 R869 April R1,692 R1,695 R18 R17 R1,894 85 5 R869 April R1,693 R1,690 R19 R12 R1,314 64 5 889 April R1,693 R1,690 R19 R12 R1,314 64 5 889 April R1,693 R1,690 R19 R12 R1,314 64 5 889 April R1,693 R1,590 R19 R12 R1,314 64 5 889 April R1,693 R1,590 R19 R12 R1,314 64 5 889 April R1,693 R1,590 R19 R12 R1,314 64 5 889 April R1,693 R1,590 R19 R12 R1,314 64 5 889 April R1,693 R1,590 R19 R19 R1,2077 93 5 909 April R1,683 R1,590 R19 R19 R1,2077 93 5 909 April R1,683 R1,590 R19 R19 R1,2077 93 5 909 April R1,683 R1,590 R19 R19 R1,2077 93 5 909 April R1,683 R1,590 R19 R19 R1,2077 93 5 909 April R1,683 R1,590 R19 R19 R1,2077 93 5 909 April R1,683 R1,590 R19 R19 R1,2077 93 5 909 April R1,683 R1,590 R19 R19 R1,2077 93 5 909 April R1,683 R1,590 R19 R19 R1,2077 93 5 909 April R1,590 R1,492	1975	TOTAL	20,109	19,236	NA	NA		-		•
1977 TOTAL 20,025 19,163 NA NA 19,521 1,011 56 9,883 1978 TOTAL 19,974 19,122 NA NA NA 19,627 966 53 9,911 1979 TOTAL 20,471 19,663 NA NA NA 20,241 1,253 56 10,496 1980 January 1,838 1,768 R17 R17 R2,238 118 6 981 February 1,725 1,659 R16 R16 R2,147 108 5 898 March 1,847 R1,776 R16 16 R2,054 109 5 958 May 1,712 1,647 R17 R11 R1,355 77 3 895 May 1,712 1,647 R17 R11 R1,357 77 3 895 May 1,712 1,647 R17 R11 R1,357 77 3 895 May 1,531 R16 10 R1,255 61 3 791 August 1,592 1,531 R16 10 R1,285 61 3 791 August 1,592 1,531 R16 10 R1,285 61 3 822 September 1,596 R1,535 R16 10 R1,289 60 5 797 October 1,663 R1,600 R14 12 R1,522 75 5 891 November 1,669 R1,605 R16 14 R1,761 88 3 900 December 1,816 1,747 R18 R16 R2,129 98 5 969 TOTAL 20,379 19,602 R195 155 19,877 985 49 10,578 1981 January 1,772 1,704 R20 R2,279 91 5 R962 February R1,591 R1,530 R17 R17 R18 R194 85 5 R869 April R1,692 R1,693 R18 R17 R19,900 80 5 R942 April R1,692 R1,593 R18 R19	1976	TOTAL	19,952	19,098	NA ·	NA	•			•
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 January 1,838 1,768 R17 R17 R17 R2,238 118 6 981 February 1,725 1,659 R16 R16 R2,147 108 5 898 March 1,847 R1,776 R16 16 R2,165 109 5 958 April 1,896 1,622 R15 12 R1,535 77 3 895 May 1,712 1,647 R17 R11 R1,355 70 3 895 May 1,712 1,647 R17 R11 R1,355 70 3 895 Julve 1,602 1,541 R15 R10 R1,255 61 3 791 Julve 1,602 1,541 R15 R10 R1,255 61 3 791 Julvy 1,633 1,571 R16 10 R1,295 61 3 791 August 1,592 1,531 R16 10 R1,295 61 3 822 September 1,596 R1,535 R16 10 R1,282 60 3 825 September 1,669 R1,535 R16 10 R1,282 60 3 825 November 1,669 R1,605 R16 14 R1,761 88 3 900 December 1,816 1,747 R18 R16 R2,129 98 5 969 TOTAL 20,379 19,602 R195 155 19,877 985 49 10,578 1981 January 1,772 1,704 R20 R20 R2,279 91 5 R962 February R1,591 R1,530 R17 R17 R1,900 80 5 R942 April R1,692 R1,693 R1,690 R19 R17 R1,900 80 5 R962 March 1,763 1,686 R18 R17 R1,900 80 5 R964 April R1,693 R1,690 R19 R19 R12 R1,315 66 5 877 May R1,716 R1,650 R18 R13 R1,426 62 4 909 June R1,653 R1,590 R1,591 R1,594 R1,594 R1,595 R1,594 R1,595 R1	1977	TOTAL	20,025	19,163	. NA		•			·
1979 TOTAL 20,471 19,663 NA NA 20,241 1,253 56 10,496 1980 January 1,838 1,768 R17 R17 R2,238 118 6 981 February 1,725 1,659 R16 R16 R2,147 108 5 898 March 1,847 R1,776 R16 R16 R2,054 109 5 958 898 April 1,686 1,622 R15 12 R1,535 77 3 895 May 1,712 1,647 R17 R11 R1,357 77 3 895 May 1,712 1,647 R17 R11 R1,357 77 3 895 May 1,712 1,647 R17 R11 R1,355 61 3 791 June 1,602 1,541 R15 R10 R1,255 61 3 791 July 1,633 1,571 R16 10 R1,255 61 3 822 September 1,596 R1,535 R16 10 R1,282 60 3 825 September 1,596 R1,535 R16 10 R1,299 60 5 797 October 1,663 R1,605 R16 14 R1,761 88 3 900 December 1,669 R1,605 R16 14 R1,761 88 3 900 December 1,816 1,747 R18 R16 R2,129 98 5 969 TOTAL 20,379 19,602 R195 155 19,877 985 49 10,578 1981 January 1,772 1,704 R20 R20 R2,279 91 5 R962 February R1,591 R1,530 R17 R17 R1,884 85 5 R869 March 1,753 1,686 R18 R17 R1,800 80 5 R962 April R1,692 R1,657 R16 R18 R13 R1,426 62 4 909 July R1,683 R1,590 R19 R19 R12 R1,309 65 5 895 900 April R1,692 R1,657 R16 R18 R13 R1,426 62 4 909 July R1,683 R1,590 R19 R19 R12 R1,309 65 5 889 April R1,693 R1,590 R19 R12 R1,315 66 5 889 April R1,693 R1,590 R19 R12 R1,315 66 5 889 April R1,693 R1,590 R19 R12 R1,315 66 5 889 April R1,693 R1,590 R19 R12 R1,315 66 5 889 April R1,693 R1,590 R19 R12 R1,315 66 5 889 April R1,595 R1,534 R18 R12 R1,314 64 5 864 September R1,595 R1,534 R18 R12 R1,314 64 5 864 September R1,595 R1,534 R18 R12 R1,314 64 5 864 September R1,595 R1,534 R18 R12 R1,314 64 5 889 April R1,724 R1,658 R18 R12 R1,314 64 5 889 April R1,724 R1,658 R18 R12 R1,314 64 5 889 April R1,724 R1,658 R18 R12 R1,314 64 5 889 April R1,690 R1,595 R1,534 R18 R12 R1,314 64 5 889 April R1,724 R1,658 R18 R19 R1,726 R1,690 R1,599 R17 R15 R1,619 R2 5 900 April R1,595 R1,534 R18 R12 R1,314 64 5 889 April R1,724 R1,658 R18 R19 R1,724 R1,659 R19 R19 R2,077 93 5 1,055 R10,055 R1	1978	TOTAL	19,974	19,122			•	•		•
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February 1,725 1,659 R16 R16 R2,147 108 5 898 March 1,847 R1,776 R16 16 R2,147 108 5 898 March 1,847 R1,776 R16 16 R2,054 109 5 958 April 1,686 1,622 R15 12 R1,535 77 3 895 May 1,712 1,647 R17 R11 R1,357 70 3 851 Jule 1,633 1,571 R16 10 R1,295 61 3 822 August 1,592 1,531 R16 10 R1,295 61 3 822 August 1,596 R1,535 R16 10 R1,295 60 3 825 September 1,596 R1,535 R16 10 R1,299 60 5 797 October 1,663 R1,600 R14 12 R1,522 75 5 891 November 1,669 R1,605 R16 14 R1,761 88 3 900 December 1,816 1,747 R18 R16 R2,129 98 5 969 TOTAL 20,379 19,602 R195 155 19,877 985 49 10,578 1981 January 1,772 1,704 R20 R20 R2279 91 5 R962 February R1,591 R1,530 R17 R17 R1,894 85 5 R869 March 1,753 1,686 R18 R17 R1,900 80 5 R962 May R1,716 R1,650 R18 R13 R1,426 62 4 909 May R1,716 R1,650 R18 R13 R1,426 62 4 909 Jule R1,653 R1,590 R19 R12 R1,315 66 5 899 Jule R1,653 R1,590 R19 R12 R1,315 66 5 899 Jule R1,653 R1,590 R19 R12 R1,315 66 5 899 Jule R1,653 R1,590 R19 R12 R1,315 66 5 899 Jule R1,654 R1,656 R18 R12 R1,315 66 5 899 Jule R1,655 R15 R15 R15 R1,315 R1,426 62 4 909 Jule R1,653 R1,590 R19 R12 R1,315 66 5 899 Jule R1,660 R1,596 R18 R12 R1,315 66 5 899 Jule R1,660 R1,596 R18 R12 R1,315 66 5 899 Jule R1,660 R1,596 R18 R12 R1,315 66 5 899 Jule R1,660 R1,596 R18 R12 R1,315 66 5 899 Jule R1,660 R1,596 R18 R12 R1,315 66 5 899 Jule R1,660 R1,596 R18 R12 R1,315 66 5 899 Jule R1,660 R1,596 R18 R12 R1,315 66 5 899 Jule R1,660 R1,596 R18 R12 R1,315 66 5 899 Jule R1,660 R1,596 R18 R12 R1,315 66 5 899 Jule R1,660 R1,596 R18 R12 R1,315 66 5 904 Jule R1,660 R1,596 R18 R12 R1,315 66 5 904 Jule R1,660 R1,596 R18 R12 R1,315 66 5 904 Jule R1,660 R1,596 R18 R12 R1,315 66 5 904 Jule R1,660 R1,596 R18 R12 R1,315 66 5 904 Jule R1,660 R1,596 R17 R14 R1,660 R15 R19 R19 R2,0077 93 5 5 1,055 P10 R10 R1,500 R1,442 R15 R10 R1,442 R15 R10 R1,442 R15 R10 R1,442 R15 R10 R1,442	1980	January	1.838	,			•	•		10,496
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March R1,670 R1,606 R18 R16 R1,823 90 5 909 April R1,575 R1,515 R17 R13 R1,472 77 4 853 May R1,547 R1,488 R16 R11 R1,139 69 4 R886 June R1,500 R1,442 R15 R10 R1,121 67 4 814 August R1,513 R1,455 R16 R11 R1,143 67 5 778 September 1,459 1 403 15 11 R1,177 R64 4 NA		_ •	,				R2,366	104	6	969
April R1,575 R1,515 R17 R13 R1,472 77 4 853 May R1,547 R1,488 R16 R11 R1,139 69 4 R886 June R1,500 R1,442 R15 R10 R1,121 67 4 814 August R1,513 R1,455 R16 R11 R1,143 67 5 778 September 1,459 1 403 15 11 R1,177 R64 4 NA					-		R1,967	94		
May R1,547 R1,488 R16 R11 R1,139 69 4 R886 June R1,500 R1,442 R15 R10 R1,121 67 4 814 August R1,513 R1,455 R16 R11 R1,143 67 5 778 September 1,459 1 403 15 11 R1,177 R64 4 NA				,	-		R1,823	90		
June R1,547 R1,488 R16 R11 R1,139 69 4 R886 July R1,520 R1,462 R15 R10 R1,121 67 4 814 August R1,513 R1,455 R16 R11 R1,143 67 5 778 September 1,459 1,403 15 11 R1,177 R64 4 NA		•					R1,472	-		
July R1,500 R1,442 R15 R10 R1,121 67 4 814 August R1,513 R1,455 R16 R11 R1,143 67 5 778 September 1,459 1,403 15 11 R1,177 R64 4 NA		•	•				R1,139			
August R1,520 R1,462 R15 R11 R1,143 67 5 778 September 1,459 1,403 15 11 R1,177 R64 4 NA						R10				-
Adgust H1,513 H1,455 R16 R11 R1,177 R64 4 NA					-	R11				
September 1,459 1,403 15 14 4.470		•	, -			R11				
		Sebrember	1,459	1,403	15	11				

See page 51 for explanation of revisions.

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

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

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

Ancitioes normydrocarbon gases removed such as carbon dioxide, mydrogen sames, normydrocarbon gases, remaining after the artifaction of natural gas plant liquids, such as ethane, propane, butanes, etc. See Note 1 on the last page of this section. Includes supplemental gaseous fuels such as synthetic natural gas, propane-air, and refinery (still) gas normally mixed with natural gas prior to consumption. See Note 1 on the last page of this section.

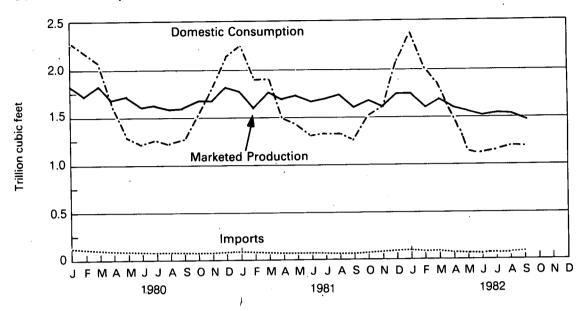
R=Revised data. NA=Not available.

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

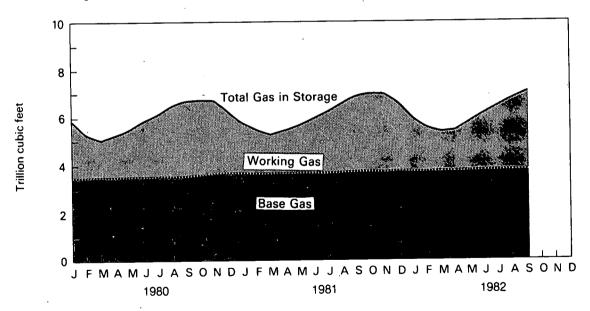
Sources: • See the last page of this section.

Natural Gas

Domestic Consumption, Marketed Production, and Imports



Gas in Storage



Natural Gas

Natural Gas in Underground Storage¹

1974 TOTAL			Total Gas in Storage	Base Gas	Working Gas	Storage Injections	Storage Withdrawals	Net Storage Injections ²
1974 TOTAL 14,962 12,912 12,050 NA NA NA NI 1975 TOTAL 185,374 183,162 182,212 NA NA NA NI 1976 TOTAL 185,250 183,323 181,926 81,960 82,114 8(15 1977 TOTAL 186,866 183,391 182,475 82,401 81,773 862 1978 TOTAL 186,020 183,473 182,547 82,338 82,186 81 1979 TOTAL 186,036 183,553 182,553 82,370 82,044 832 1980 January 85,873 83,549 82,324 21 8424 8(40 8arch 85,150 83,556 81,594 859 8283 8(22 8arch 85) 186,5275 83,556 81,594 859 8283 8(22 8arch 85) 1979 85,873 83,550 81,852 24 8451 8(42 8arch 85,150 83,556 81,594 859 8283 8(22 8arch 85,150 83,556 81,594 859 82,186 819 826 819 828 819					Billion c	ubic feet		
1975 TOTAL	. 1973	TOTAL	‡ 4,898	‡2,864	‡2,034	NA .	NA	NA
1975 TOTAL	1974	TOTAL	‡ 4,962	‡2,912	‡2,050	NA	NA	NA
1976 TOTAL	1975	TOTAL	‡R5,374	‡R3,162	‡R2,212	NA	NA	NA
1977 TOTAL	1976	TOTAL	‡R5,250	‡R3,323	‡R1,926	R1,960		R(154)
1978 TOTAL ‡R6,020 ‡R3,473 ‡R2,547 R2,338 R2,186 R15 1979 TOTAL ‡R6,306 ‡R3,553 ‡R2,753 R2,370 R2,044 R32 1980 January R5,873 R3,549 R2,324 21 R424 R(40 February R5,402 R3,550 R1,852 24 R451 R(42 March R5,150 R3,556 R1,694 R59 R283 R(22 April R5,275 R3,584 R1,691 R167 R65 R10 May R5,5895 R3,596 R2,299 R293 R14 R27 Jule R5,895 R3,596 R2,299 R293 R14 R27 August R6,462 R3,600 R2,587 R286 R19 R26 September R6,713 R3,613 R3,099 R240 11 R22 October R6,805 R3,619 R3,187 R138 R47 R9 <	1977	TOTAL	‡R5,866	‡R3,391	‡R2,475			R628
1979 TOTAL ‡R6,306 ‡R3,553 ‡R2,753 R2,370 R2,044 R32 1980 January R5,873 R3,549 R2,324 21 R424 R(40 February R5,402 R3,550 R1,852 24 R451 R(40 March R5,150 R3,556 R1,594 R59 R283 R(22 April R5,275 R3,584 R1,691 R167 R65 R10 May R5,588 R3,590 R1,998 R298 R9 R283 June R5,895 R3,690 R2,299 R293 R14 R27 August R6,462 R3,608 R2,287 R286 R19 R26 Apetember R6,713 R3,613 R3,099 R240 11 R22 October R6,805 R3,619 R3,187 R138 R47 R9 November R6,663 R3,637 R3,026 R65 R188 R(122	1978	TOTAL	‡R6,020	‡R3,473		•	•	
1980 January R5,873 R3,549 R2,324 21 R424 R(40) February R5,402 R3,550 R1,852 24 R451 R(42) R416 R5,150 R3,556 R1,594 R59 R283 R(22) April R5,275 R3,584 R1,691 R167 R65 R10 May R5,588 R3,590 R1,988 R298 R9 R288 June R5,895 R3,596 R2,299 R293 R14 R27 July R6,187 R3,600 R2,587 R286 R19 R26 August R6,462 R3,608 R2,854 R273 R29 R24 September R6,713 R3,613 R3,099 R240 11 R22 R24 Cotober R6,805 R3,619 R3,187 R138 R47 R9 R3,642 R2,655 R34 R371 R(33) R3,613 R3,613 R3,099 R3,187 R138 R47 R9 R3,642 R2,655 R34 R371 R(33) R3,613 R3,614 R3,614 R3,615	1979	TOTAL	‡R6,306	±R3,553		•		
February R5,402 R3,550 R1,852 24 R451 R(42) March R5,150 R3,556 R1,594 R59 R283 R(22) April R5,275 R3,584 R1,691 R167 R65 R10 May R5,588 R3,590 R1,998 R298 R9 R283 June R5,895 R3,596 R2,299 R293 R14 R27 July R6,187 R3,600 R2,587 R286 R19 R26 August R6,462 R3,608 R2,854 R273 R29 R24 September R6,713 R3,613 R3,099 R240 11 R22 October R6,805 R3,619 R3,187 R138 R47 R9 November R6,663 R3,637 R3,026 R65 R188 R(12) December R6,297 R3,642 R2,655 34 R371 R(33) 1981 January R5,795 3,642 R2,655 34 R371 R38 March R5,285 3,654 R1,631 55 243 R(17) April 5,434 3,670 1,764 R208 R55 R155 May R5,660 R3,684 R1,977 R255 R26 R221 June R5,933 R3,681 R2,252 R3,777 R295 R26 R305 August R6,895 R3,713 R3,681 R2,556 R355 R26 R305 August R6,595 R3,713 R3,681 R1,977 R255 R26 R305 August R6,595 R3,713 R3,681 R1,977 R255 R26 R305 August R6,895 R3,713 R3,892 R361 R15 R346 September R6,872 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R104 December R6,931 R3,731 R3,200 R80 124 R(44) December R6,536 R3,750 R1,786 R30 R88 R264 R(177) February R5,536 R3,750 R1,786 R50 R446 R(396) March R5,369 R3,766 R1,603 R88 R264 R(177) February R5,536 R3,750 R1,786 R50 R446 R(396) March R5,369 R3,766 R1,603 R88 R264 R(177) February R5,536 R3,777 R1,675 R180 R107 73	1980	January	B5 873		• •		•	
March R5,150 R3,556 R1,594 R59 R283 R(22 April R5,275 R3,584 R1,691 R167 R65 R10 May R5,588 R3,590 R1,998 R298 R9 R288 June R5,895 R3,596 R2,299 R293 R14 R27 July R6,187 R3,600 R2,587 R286 R19 R26 R19 August R6,462 R3,608 R2,854 R273 R29 R24 September R6,713 R3,613 R3,099 R240 11 R22 October R6,805 R3,619 R3,187 R138 R47 R9 November R6,663 R3,637 R3,026 R65 R188 R(12: December R6,297 R3,642 R2,655 34 R371 R(33: December R6,297 R3,642 R2,655 34 R371 R(33: April R5,285 R5,600 R3,684 R1,824 59 R376 R(31: April R5,285 R5,600 R3,684 R1,631 55 243 R(17: April S,434 R5,600 R3,684 R1,977 R255 R26 R226 June R5,933 R3,681 R2,252 R314 27 28: July R6,205 R3,684 R1,977 R255 R26 R226 June R5,933 R3,681 R2,252 R314 27 28: July R6,205 R3,649 R2,5566 R335 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 R264 R1,977 R255 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 R264 R1,977 R255 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 R264 R1,977 R255 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 R264 R1,977 R255 R50 R10 November R6,931 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R10 November R6,931 R3,731 R3,200 R80 124 R(44 December R6,568 R3,752 R2,815 R34 R387 R(353)								R(403)
April R5,275 R3,584 R1,691 R167 R65 R10 May R5,588 R3,590 R1,998 R298 R9 R28 June R5,895 R3,596 R2,299 R293 R14 R27 July R6,187 R3,600 R2,587 R286 R19 R26 August R6,462 R3,608 R2,854 R273 R29 R24 September R6,713 R3,613 R3,099 R240 11 R22 October R6,805 R3,619 R3,187 R138 R47 R9 November R6,663 R3,637 R3,026 R65 R188 R(12) December R6,297 R3,642 R2,655 34 R371 R(33) 1981 January R5,795 3,642 2,152 R37 R558 R(52- February 5,472 3,648 1,824 59 R376 R(31) March R5,285 3,654 R1,631 55 243 R(176 April 5,434 3,670 1,764 R208 R55 R15 May R5,660 R3,684 R1,977 R255 R26 R224 June R5,933 R3,681 2,252 314 27 285 July R6,205 3,649 R2,555 R35 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 August R6,595 R3,713 2,882 R361 R15 R346 August R6,595 R3,713 2,882 R361 R15 R346 August R6,597 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R102 November R6,931 R3,731 R3,200 R80 124 R(444 December R6,688 R3,752 R2,815 R34 R387 R(353) 1982 January R5,932 R3,751 R2,181 R24 R673 R(648 R(376 April R5,452 R3,750 R1,786 R50 R446 R(396 March R5,369 R3,766 R1,603 R88 R264 R(177 April R5,452 R3,777 R1,675 R180 R107 73								R(427)
May R5,588 R3,590 R1,998 R298 R9 R293 R14 R27. July R6,187 R3,600 R2,587 R286 R19 R26 August R6,462 R3,608 R2,854 R273 R29 R24. September R6,713 R3,613 R3,099 R240 11 R22. October R6,805 R3,619 R3,187 R138 R47 R9 November R6,663 R3,637 R3,026 R65 R188 R(123 R29) December R6,297 R3,642 R2,655 34 R371 R(33) 1981 January R5,795 3,642 2,152 R37 R558 R(52 February 5,472 3,648 1,824 59 R376 R(317 M3rch R5,285 3,654 R1,631 55 243 R(175 M3r) March R5,285 3,654 R1,631 55 243 R(175 M3r) May R5,660 R3,684 R1,977 R255 R26 R222 June R5,933 R3,681 2,252 314 27 287 July R6,205 3,649 R2,556 R355 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 R305 August R6,595 R3,713 R3,200 R80 124 R(44 December R6,974 R3,726 R3,247 R155 R50 R102 August R6,595 R3,720 R3,152 R287 R9 R277 R9 R277 R9 R277 R9 R3,720 R3,152 R287 R9 R277 R9 R277 R155 R50 R102 August R6,595 R3,720 R3,152 R287 R9 R277 R9 R277 R444 R6,444				,				R(224)
June R5,895 R3,596 R2,299 R293 R14 R27 July R6,187 R3,600 R2,587 R286 R19 R26 August R6,462 R3,608 R2,854 R273 R29 R24 September R6,713 R3,613 R3,099 R240 111 R22 October R6,805 R3,619 R3,187 R138 R47 R9 November R6,663 R3,637 R3,026 R65 R188 R(122 December R6,297 R3,642 R2,655 34 R371 R(33) 1981 January R5,795 3,642 2,152 R37 R558 R(52- February 5,472 3,648 1,824 59 R376 R(317 March R5,285 3,654 R1,631 55 243 R(176 April 5,434 3,670 1,764 R208 R55 R150 May R5,660 R3,684 R1,977 R255 R26 R226 June R5,933 R3,681 2,252 314 27 287 July R6,205 3,649 R2,556 R335 R26 R305 August R6,595 R3,713 2,882 R361 R15 R344 September R6,872 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R104 November R6,931 R3,731 R3,200 R80 124 R(44 December R6,668 R3,752 R2,815 R34 R387 R(353) 1982 January R5,536 R3,751 R2,181 R24 R673 R(648 R397) R5,660 R3,766 R1,603 R88 R264 R(177 R97) R5,664 R1,603 R88 R264 R(177 R3,777 R1,675 R180 R107 73					•			R102
July R6,187 R3,600 R2,587 R286 R19 R26 August R6,462 R3,608 R2,854 R273 R29 R24 September R6,713 R3,613 R3,099 R240 11 R22 October R6,805 R3,619 R3,187 R138 R47 R9 November R6,663 R3,637 R3,026 R65 R188 R(122 December R6,297 R3,642 R2,655 34 R371 R(33) 1981 January R5,795 3,642 2,152 R37 R558 R(522 February 5,472 3,648 1,824 59 R376 R(317 March R5,285 3,654 R1,631 55 243 R(176 April 5,434 3,670 1,764 R208 R55 R15 May R5,660 R3,684 R1,977 R255 R26 R226 June R5,933 R3,681 2,252 314 27 28 July R6,205 3,649 R2,556 R335 R26 R305 August R6,595 R3,713 2,882 R361 R15 R34 September R6,872 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R104 November R6,931 R3,731 R3,200 R80 124 R(44 December R6,931 R3,731 R3,200 R80 124 R(44 December R6,931 R3,731 R3,200 R80 124 R(44 December R6,536 R3,752 R2,815 R34 R387 R(353 1982 January R5,536 R3,751 R2,181 R24 R673 R(648 R678 R648 R678 R648 R3,750 R1,663 R88 R264 R(177 R678 R679 R446 R(396 March R5,369 R3,766 R1,603 R88 R264 R(177 R678 R679 R6,874 R678 R668 R3,777 R1,675 R180 R107 73		•						R289
August R6,462 R3,608 R2,854 R273 R29 R244 September R6,713 R3,613 R3,099 R240 11 R222 R3,608 R3,619 R3,187 R138 R47 R9 R5,660 R3,637 R3,026 R65 R188 R1,23 R29 R240 R3,637 R3,026 R65 R188 R1,23 R3,637 R3,026 R65 R188 R1,23 R3,637 R3,026 R65 R188 R1,23 R3,637 R3,642 R2,655 R188 R1,23 R3,637 R3,642 R2,655 R188 R1,23 R3,637 R3,642 R2,655 R188 R1,23 R3,642 R3,671 R3,644 R3,671 R3,644 R3,670 R3,644 R3,670 R3,644 R3,670 R3,644 R3,670 R3,644 R3,670 R3,644 R3,677 R3,645 R3,646 R3,64			•					R278
September R6,713 R3,613 R3,099 R240 11 R221 October R6,805 R3,619 R3,187 R138 R47 R9 November R6,663 R3,637 R3,026 R65 R188 R(12) December R6,297 R3,642 R2,655 34 R371 R(33) 1981 January R5,795 3,642 2,152 R37 R558 R(52) February 5,472 3,648 1,824 59 R376 R317 March R5,285 3,654 R1,631 55 243 R(17) April 5,434 3,670 1,764 R208 R55 R150 May R5,660 R3,684 R1,977 R255 R26 R226 June R5,933 R3,681 2,252 314 27 287 July R6,205 3,649 R2,556 R335 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 September R6,872 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R104 November R6,931 R3,731 R3,200 R80 124 R(44) December R6,668 R3,752 R2,815 R34 R387 R(353) 1982 January R5,932 R3,751 R2,181 R24 R673 R(648) March R5,369 R3,766 R1,603 R88 R264 R(177) February R5,536 R3,750 R1,786 R50 R446 R(396) March R5,369 R3,766 R1,603 R88 R264 R(177) March R5,369 R3,777 R1,675 R180 R107 73		•		•	,			R267
October R6,805 R3,619 R3,187 R138 R47 R9 November R6,663 R3,637 R3,026 R65 R188 R(120) December R6,297 R3,642 R2,655 34 R371 R(330) 1981 January R5,795 3,642 2,152 R37 R558 R(520) February 5,472 3,648 1,824 59 R376 R(310) March R5,285 3,654 R1,631 55 243 R(170) April 5,434 3,670 1,764 R208 R55 R150 May R5,660 R3,684 R1,977 R255 R26 R220 June R5,933 R3,681 2,252 314 27 287 July R6,205 3,649 R2,556 R335 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 September R6,872 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R104 November R6,931 R3,731 R3,200 R80 124 R(440) December R6,568 R3,752 R2,815 R34 R387 R(353) 1982 January R5,932 R3,751 R2,181 R24 R673 R(648) February R5,536 R3,750 R1,786 R50 R446 R(396) March R5,369 R3,766 R1,603 R88 R264 R(177) March R5,369 R3,766 R1,603 R88 R264 R(177) March R5,369 R3,766 R1,603 R88 R264 R(177) March R5,452 R3,777 R1,675 R180 R107 73					•			R244
November R6,663 R3,637 R3,026 R65 R188 R(12) December R6,297 R3,642 R2,655 34 R371 R(33) 1981 January R5,795 3,642 2,152 R37 R558 R(52) February 5,472 3,648 1,824 59 R376 R(317) March R5,285 3,654 R1,631 55 243 R(176) April 5,434 3,670 1,764 R208 R55 R150 May R5,660 R3,684 R1,977 R255 R26 R220 June R5,933 R3,681 2,252 314 27 287 July R6,205 3,649 R2,556 R335 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 September R6,872 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R102 November R6,931 R3,731 R3,200 R80 124 R(44) December R6,568 R3,752 R2,815 R34 R387 R(353) 1982 January R5,932 R3,751 R2,181 R24 R673 R(648) February R5,536 R3,750 R1,786 R50 R446 R(396) March R5,369 R3,766 R1,603 R88 R264 R(177) March R5,452 R3,777 R1,675 R180 R107 73			_ ,		•			
December R6,297 R3,642 R2,655 34 R371 R(33) 1981 January R5,795 3,642 2,152 R37 R558 R(52) February 5,472 3,648 1,824 59 R376 R(31) March R5,285 3,654 R1,631 55 243 R(178 April 5,434 3,670 1,764 R208 R55 R15 May R5,660 R3,684 R1,977 R255 R26 R226 June R5,933 R3,681 2,252 314 27 287 July R6,205 3,649 R2,556 R335 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 September R6,872 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R104 November R6,931 R3,731 R3,200 R80 124 R(44 December R6,568 R3,752 R2,815 R34 R387 R(353) 1982 January R5,932 R3,751 R2,181 R24 R673 R(648 February R5,536 R3,750 R1,786 R50 R446 R(396) March R5,369 R3,766 R1,603 R88 R264 R(177 April R5,452 R3,777 R1,675 R180 R107 73				•				
1981 January R5,795 3,642 2,152 R37 R558 R(52-1) February 5,472 3,648 1,824 59 R376 R(317-1) March R5,285 3,654 R1,631 55 243 R(176-1) April 5,434 3,670 1,764 R208 R55 R155 May R5,660 R3,684 R1,977 R255 R26 R226 June R5,933 R3,681 2,252 314 27 287 July R6,205 3,649 R2,556 R335 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 September R6,872 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R104 December R6,568 R3,751 R3,200 R80 124 R(44 December R6,5								
February 5,472 3,648 1,824 59 R376 R(317) March R5,285 3,654 R1,631 55 243 R(176) April 5,434 3,670 1,764 R208 R55 R155 May R5,660 R3,684 R1,977 R255 R26 R226 June R5,933 R3,681 2,252 314 27 287 July R6,205 3,649 R2,556 R335 R26 R305 August R6,595 R3,713 2,882 R361 R15 R346 September R6,872 R3,720 R3,152 R287 R9 R277 October R6,974 R3,726 R3,247 R155 R50 R104 November R6,931 R3,731 R3,200 R80 124 R(44) December R6,568 R3,752 R2,815 R34 R387 R(353) 1982 January R5,932 R3,751 R2,181 R24 R673 R(648) February R5,536 R3,750 R1,786 R50 R446 R(396) March R5,369 R3,766 R1,603 R88 R264 R(177) April R5,452 R3,777 R1,675 R180 R107 73	1981	January	. R5,795	3,642	2.152	B37		, ,
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October R6,974 R3,726 R3,247 R155 R50 R102 November R6,931 R3,731 R3,200 R80 124 R(44 December R6,568 R3,752 R2,815 R34 R387 R(353 1982 January R5,932 R3,751 R2,181 R24 R673 R(648 February R5,536 R3,750 R1,786 R50 R446 R(396 March R5,369 R3,766 R1,603 R88 R264 R(177 April R5,452 R3,777 R1,675 R180 R107 73			, .	R3,720	R3,152	R287		
November R6,931 R3,731 R3,200 R80 124 R(44 R673 R6,568 R3,752 R2,815 R34 R387 R(353 R342 R353 R342 R353 R352 R3,751 R2,181 R24 R673 R6,484 R353 R3,750 R1,786 R50 R446 R6,396 R3,766 R1,603 R88 R264 R6,177 R3,771 R1,675 R180 R107 73			•	R3,726	R3,247	R155		
1982 January R5,932 R3,751 R2,181 R24 R673 R(648 February R5,536 R3,750 R1,786 R50 R446 R(396 March R5,369 R3,766 R1,603 R88 R264 R(177 April R5,452 R3,777 R1,675 R180 R107 73				R3,731		R80		R(44)
February R5,536 R3,750 R1,786 R50 R446 R(396 March R5,369 R3,766 R1,603 R88 R264 R(177 April R5,452 R3,777 R1,675 R180 R107 73		December	R6,568	R3,752	R2,815	R34	R387	R(353)
Hebruary R5,536 R3,750 R1,786 R50 R446 R(396) March R5,369 R3,766 R1,603 R88 R264 R(177) April R5,452 R3,777 R1,675 R180 R107 73	1982			•	R2,181	R24	R673	R(648)
March R5,369 R3,766 R1,603 R88 R264 R(177 April R5,452 R3,777 R1,675 R180 R107 73		•			R1,786	R50		
April H5,452 H3,777 R1,675 R180 R107 73				R3,766	R1,603	R88		
		•		•	R1,675	R180		73
, , 10,,000 112,000 110 H369		May	R5,813	R3,780	R2,033			R369
June R6,146 R3,777 R2,368 R350 11 R339				,		R350		R339
July R6,485 R3,779 R2,706 R351 12 R339						R351		R339
August 6,781 3,780 3,001 328 33 295				•	•	328	33	295
September 7.022 2.700 0.054		September	7,032	3,782	3,251	271		251

See page 51 for explanation of revisions.

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

See Note 2 on the last page of this section.

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

Total as of December 31. R=Revised data. NA=Not available.

Sources: • See the last page of this section.

Notes and Sources for the Natural Gas Section

Notes

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

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

Marketed production for 1979 and previous years represents gross withdrawals (full well-stream volume excluding lease condensate separated at the lease) less gas used for repressuring and quantities vented and flared. This definition includes the nonhydrocarbon gases subsequently removed. Beginning with January 1980 data, the marketed production series was expanded into two series. They both represent gross withdrawals less gas used for repressuring and quantities vented or flared. However, one series includes the nonhydrocarbon gases subsequently removed, and the other series excludes the nonhydrocarbon gases removed. For the purpose of maintaining a continuous series, those data that include the pophydrocarbon gases. nowever, one series includes the nonhydrocarbon gases subsequently removed, and the other series excludes the northydrocarbon 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.

Data calculation: 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 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.

Explanation of Revisions to the Natural Gas Section

The numerous, generally small, revisions to the natural gas data in this issue of the Monthly Energy Review (MER) were necessary to update preliminary data and to assure consistency between the MER and comparable EIA natural gas reports. For details see the EIA, Natural Gas Annual 1981, and the EIA, Natural Gas Monthly.

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Oil and Gas Resource Development

The September 1982 rotary rig count of 2,482 was 5.2 percent lower than the previous month and 41.5 percent lower than the September 1981 count (4,242). The 228 rigs operating offshore were 14.2 percent fewer than those working in September 1981.

Cumulative well completions reported through September 1982 totaled 64,247, a 20.6-percent increase from the 53,260 reported for the first 9 months of 1981. This increase in well completions does not parallel the declining trend in rotary rig activity. The divergence is principally caused by delays of up to several months in reporting well completions.

Cumulative 1982 oil well completions through September (30,104 reported) were up 17.2 percent from the comparable 1981 figure (25,689 reported). During the first 9 months of 1982, 14,109 gas well completions were reported, a 19.1-percent increase from the comparable 1981 period (11,844 reported). Total reported footage drilled through September of this year increased 23.6 percent from the same period last year (302.9 million feet as compared with 245.0 million feet).

The count of 535 crews engaged in seismic exploration in September 1982 was 28.1 percent less than the count for September 1981. Onshore seismic activity in September 1982 was 476 crews, 31.7 percent lower than activity during September 1981. Offshore seismic activity in September 1982 was 59 crews, 25.5 percent higher than in September 1981.

Oil and Gas Resource Development

Monthly average Oil Gas Dry Total Thousand feet			Rotary Rigs in Operation ¹		Ex		and Develop Drilled ²	ment	Total Footage of Wells Drilled ²
1974 AVERAGE			Monthly average		Oil	Gas	Dry	Total	Thousand feet
1975 AVERAGE	1973	AVERAGE	1,194	TOTAL	9,902	6,385	10,305	26,592	136,391
1976 AVERAGE 1,658	1974	AVERAGE	1,472	TOTAL	12,784	7,240	11,674	31,698	
1977 AVERAGE 2,001 TOTAL 18,912 11,378 14,692 44,982 210,848 1978 AVERAGE 2,259 TOTAL 17,775 13,064 16,218 47,057 227,110 1979 AVERAGE 2,177 TOTAL 19,383 14,681 15,752 49,816 238,659 1980 January 2,571 1,436 782 1,240 3,458 16,475 February 2,613 1,635 1,000 1,297 3,932 18,891 March 2,682 2,390 1,834 1,542 5,766 27,691 April 2,682 1,841 1,121 1,158 4,120 18,855 May 2,797 2,059 1,070 1,191 4,320 19,899 June 2,850 2,228 1,282 1,451 4,961 24,479 July 2,953 2,079 1,042 1,337 4,458 21,734 August 3,045 2,357 1,275 1,539 5,171 24,112 September 3,099 2,641 1,720 1,767 6,128 28,171 0,000 2,258 1,503 1,617 5,378 25,417 0,000 2,258 1,503 1,617 5,378 25,417 2,000 2,258 1,503 1,617 5,378 25,417 2,000 2,258 1,910 2,257 7,852 34,161 AVERAGE 2,909 TOTAL 27,026 15,730 18,089 60,845 284,461 1981 January 3,386 1,794 964 1,339 4,097 19,907 February 3,502 2,459 1,046 1,610 5,378 25,417 3,595 3,016 3,099 1,423 1,883 6,405 30,166 April 3,728 2,905 1,600 1,546 6,051 2,7836 August 4,131 3,140 1,260 1,574 6,274 28,933 5,914 2,905 1,577 1,575 2,057 7,221 3,1689 1,000 1,575 4,388 2,4842 3,161 3,988 2,790 1,116 1,698 5,604 25,542 3,755 1,600 1,577 2,057 7,221 3,149 1,000 1,676 6,051 2,7836 1,000 1,577 2,057 7,221 3,149 1,000 1,676 6,051 2,7836 1,000 1,577 2,057 7,221 3,2149 1,000 1	1975	AVERAGE	1,660	TOTAL	16,408	7,580	13,247	37,235	174,434
1978 AVERAGE 2,259 TOTAL 17,775 13,064 16,218 47,057 227,110 1979 AVERAGE 2,177 TOTAL 19,383 14,681 15,752 49,816 238,659 1980 January 2,571 1,436 782 1,240 3,458 16,475 February 2,613 1,635 1,000 1,297 3,932 18,891 April 2,682 1,841 1,121 1,158 4,120 18,855 April 2,682 1,841 1,121 1,158 4,120 19,899 June 2,850 2,259 1,070 1,191 4,320 19,899 June 2,953 2,079 1,042 1,337 4,458 21,734 August 3,045 2,357 1,275 1,599 5,171 24,112 September 3,099 2,641 1,720 1,767 6,128 28,171 October 3,148 2,417 1,190 1,697 5,304 24,600 November 3,220 2,258 1,503 1,617 5,378 25,417 December 3,286 3,685 1,910 2,257 7,852 34,161 AVERAGE 2,909 TOTAL 27,026 15,730 18,089 60,845 284,461 1981 January 3,366 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 R3,414 R1,978 R2,014 R7,406 R33,630 October 4,352 3,775 1,875 2,091 7,741 35,500 November 4,436 3,587 1,577 2,057 7,221 32,149 December 4,520 4,581 2,572 3,055 10,208 48,275 AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,496 3,683 1,546 2,289 7,518 36,008 April 3,460 3,683 1,5	1976	AVERAGE	1,658	TOTAL	17,059	9,085	13,621	39,765	181,780
1979 AVERAGE 2,177 TOTAL 19,383 14,681 15,752 49,816 238,659 1980 January 2,571 1,436 782 1,240 3,458 16,475 February 2,613 1,635 1,000 1,297 3,932 18,991 March 2,658 2,390 1,834 1,542 5,766 27,691 April 2,682 1,841 1,121 1,158 4,120 18,855 May 2,797 2,059 1,070 1,191 4,320 19,899 June 2,250 2,258 1,282 1,451 4,961 24,479 July 2,953 2,079 1,042 1,337 4,458 21,734 August 3,045 2,357 1,275 1,539 5,171 24,112 September 3,099 2,641 1,720 1,697 6,128 281,771 Qctober 3,148 2,417 1,190 1,697 5,304 24,600 November 3,226 3,685 1,910 2,257 7,852 34,161 AVERAGE 2,909 TOTAL 27,026 15,730 18,089 60,845 284,461 1981 January 3,386 1,794 964 1,339 4,097 19,907 February 3,502 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 April 3,728 2,905 1,600 1,546 6,051 27,836 April 3,298 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 R3,414 R1,978 R2,014 R7,406 R33,630 Cotober 4,352 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 June 3,966 3,497 1,320 2,105 6,922 31,689 July 3,998 2,790 1,116 1,698 5,604 25,542 3,149 December 4,436 3,587 1,577 2,057 7,221 32,149 December 4,436 3,587 1,577 2,057 7,221 32,149 December 4,436 3,489 1,433 2,445 2,572 3,055 10,208 48,275 AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,436 3,683 1,546 2,289 7,736 38,093 April 3,460 3,683 1,546 2,289 7,736 38,093 Apr	1977	AVERAGE	2,001	TOTAL	18,912	11,378	14,692	44,982	210,848
1980 January 2,571 1,436 782 1,240 3,458 16,475 February 2,613 1,635 1,000 1,297 3,932 18,891 March 2,658 2,390 1,834 1,542 5,766 27,691 4,971 2,682 1,841 1,121 1,158 4,120 18,855 May 2,797 2,059 1,070 1,191 4,320 19,899 June 2,250 2,258 1,282 1,282 1,451 4,961 24,479 July 2,953 2,079 1,042 1,337 4,458 24,479 4,458 2,4479 4,120 2,556 2,258 1,282 1,282 1,451 4,961 24,479 4,120 2,553 2,079 1,042 1,337 4,458 24,479 4,120 2,551 2,275 1,539 5,171 24,112 2,551 2,2	1978	AVERAGE	· 2,259	TOTAL	17,775	13,064	16,218	47,057	227,110
February 2,613	1979	AVERAGE	2,177	TOTAL	19,383	14,681	15,752	49,816	238,659
February 2,613	1980	January	2,571		1,436	782	1,240	3,458	16.475
March 2,6568 2,390 1,834 1,542 5,766 27,691 April 2,682 1,841 1,121 1,158 4,120 18,855 May 2,797 2,059 1,070 1,191 4,320 19,899 June 2,850 2,228 1,282 1,451 4,961 24,479 July 2,953 2,079 1,042 1,337 4,458 21,734 August 3,045 2,357 1,275 1,539 5,171 24,112 September 3,099 2,641 1,720 1,767 6,128 28,171 October 3,148 2,417 1,190 1,697 5,304 24,600 November 3,220 2,258 1,503 1,617 5,378 25,417 December 3,286 3,685 1,910 2,257 7,852 34,161 4,191 January 3,386 1,794 964 1,339 4,097 19,907 <td< td=""><td></td><td>February</td><td>2,613</td><td>1</td><td></td><td></td><td></td><td></td><td></td></td<>		February	2,613	1					
April 2,682 1,841 1,121 1,158 4,120 18,855 May 2,797 2,059 1,070 1,191 4,320 19,899 June 2,850 2,228 1,282 1,451 4,961 24,479 July 2,953 2,079 1,042 1,337 4,458 21,734 August 3,045 2,357 1,275 1,539 5,171 24,112 September 3,099 2,641 1,720 1,767 6,128 28,171 October 3,148 2,417 1,190 1,697 5,304 24,600 November 3,220 2,258 1,503 1,617 5,378 25,417 December 3,286 3,685 1,910 2,257 7,852 34,161 AVERAGE 2,909 TOTAL 27,026 15,730 18,089 60,845 284,461 1981 January 3,366 1,794 964 1,339 4,097 19,907 February 3,502 4,459 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 R3,414 R1,978 R2,014 R7,406 R33,630 October 4,352 3,775 1,875 2,091 7,741 35,500 November 4,436 3,587 1,577 2,057 7,221 32,149 December 4,520 4,581 2,572 3,055 10,208 48,275 AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,436 7,500 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 June 2,908 3,899 1,892 2,524 8,315 39,008 July 3,178 3,460 3,683 1,546 2,289 7,518 36,489 July 2,746 3,889 July 2,746 3,286 1,755 1,903 6,326 28,556 August 2,620 2,848 1,575 1,903 6,326 28,556		March				•			
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1981 January 3,386 1,794 964 1,339 4,097 19,907				TOTAL	· ·	•			
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 R3,414 R1,978 R2,014 R7,406 R33,630 October 4,352 3,775 1,875 2,091 7,741 35,500 November 4,436 3,587 1,577 2,057 7,221 32,149 December 4,520 4,581 2,572 3,055 10,208 48,275 AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,436 2,790 957 2,143 5,890 28,288 February 4,160 3,049 1,433 2,245 6,727 32,085 March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556	1001		•	10	•	-	•	•	
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 R3,414 R1,978 R2,014 R7,406 R33,630 October 4,352 3,775 1,875 2,091 7,741 35,500 November 4,436 3,587 1,577 2,057 7,221 32,149 December 4,520 4,581 2,572 3,055 10,208 48,275 AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,436 2,790 957 2,143 5,890 28,288 February 4,160 3,049 1,433 2,245 6,727 32,085 March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,554 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	1301							•	•
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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 83,414 81,978 82,014 87,406 833,630 October 4,352 3,775 1,875 2,091 7,741 35,500 November 4,436 December 4,520 4,581 2,572 3,055 10,208 48,275 AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,436 2,790 957 2,143 5,890 28,288 February 4,160 3,049 1,433 2,245 6,727 32,085 March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556						•			•
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 R3,414 R1,978 R2,014 R7,406 R33,630 October 4,352 3,775 1,875 2,091 7,741 35,500 November 4,436 3,587 1,577 2,057 7,221 32,149 December 4,520 4,581 2,572 3,055 10,208 48,275 AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,436 2,790 957 2,143 5,890 28,288 February 4,160 3,049 1,433 2,245 6,727 32,085 March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556			•]					•
August 4,131 3,140 1,260 1,874 6,274 28,933 September 4,242 R3,414 R1,978 R2,014 R7,406 R33,630 October 4,352 3,775 1,875 2,091 7,741 35,500 November 4,436 3,587 1,577 2,057 7,221 32,149 December 4,520 4,581 2,572 3,055 10,208 48,275 AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,436 2,790 957 2,143 5,890 28,288 February 4,160 3,049 1,433 2,245 6,727 32,085 March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556				1	•	•	•		
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October 4,352 3,775 1,875 2,091 7,741 35,500 November 4,436 3,587 1,577 2,057 7,221 32,149 December 4,520 4,581 2,572 3,055 10,208 48,275 AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,436 2,790 957 2,143 5,890 28,288 February 4,160 3,049 1,433 2,245 6,727 32,085 March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556					•				
November 4,436 3,587 1,577 2,057 7,221 32,149 December 4,520 4,581 2,572 3,055 10,208 48,275 AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,436 2,790 957 2,143 5,890 28,288 February 4,160 3,049 1,433 2,245 6,727 32,085 March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556		•	•		•				
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AVERAGE 3,970 TOTAL 37,671 17,894 22,973 78,538 361,407 1982 January 4,436 2,790 957 2,143 5,890 28,288 February 4,160 3,049 1,433 2,245 6,727 32,085 March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556	•								32,149
1982 January 4,436 2,790 957 2,143 5,890 28,288 February 4,160 3,049 1,433 2,245 6,727 32,085 March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556			4,520		4,581	2,572	3,055	10,208	48,275
February 4,160 3,049 1,433 2,245 6,727 32,085 March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556		AVERAGE	3,970	TOTAL	37,671	17,894	22,973	78,538	361,407
March 3,816 3,750 1,487 2,499 7,736 38,093 April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556	1982	•	•			957	2,143	5,890	28,288
April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556		,			3,049	1,433	2,245	6,727	32,085
April 3,460 3,683 1,546 2,289 7,518 36,489 May 3,178 3,459 1,948 2,215 7,622 37,049 June 2,908 3,899 1,892 2,524 8,315 39,008 July 2,746 3,286 1,705 1,929 6,920 31,202 August 2,620 2,848 1,575 1,903 6,326 28,556					3,750	1,487	2,499	7,736	· ·
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					3,683	1,546		7,518	
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					3,459	1,948			
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					3,899	1,892	2,524	•	
August 2,620 2,848 1,575 1,903 6,326 28,556		•			3,286	1,705			
Comtambas					2,848			•	
		September	2,482		3,360	1,592	2,331	7,283	32,538

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

¹These 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.

²These 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

			s Engaged ic Explorat			Se	Line-Miles o	
	٠.	Offshore	Onshore	Total	Of	fshore ¹	Onshore	Total
		Mor	nthly averag	е			Annual tota	I
1973	AVERAGE	23	227	250	25	8,944	127,160	386,104
1974	AVERAGE	31	274	305	34	1,784	158,629	500,413
1975	AVERAGE	30	254	284	30	9,283	150,694	459,977
1976	AVERAGE	25	237	262	22	6,303	142,926	369,229
1977	AVERAGE	27	281	308	12	4,676	120,072	244,748
1978	AVERAGE	25	327	352	17	4,607	135,899	310,506
1979	AVERAGE	30	370	400	19	3,212	163,929	357,141
1980	January	29	439	468				
	February	29	440	469				
	March	29	448	477				
	April	31	465	496				
	May	34	468	502				
	June	39	496	535				
	July	42	514	556			•	
	August	44	521	565				
	September	44	523	567				
	October	41	530	571 570	ŀ			
:	November	41	531	572 590				
	December	40 .	540	580		0.004	404.000	200 700
	AVERAGE	37	493	530	20.	2,694	184,088	386,782
1981	January	38	553	591				
	February	41	561	602				
	March	40	570	610				
	April May	40 42	605 619	645 661			•	
	May 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	33	8,201	256,201	594,402
1982	January	53	642	695				
	February	53	625	678				
	March	52	597	649				
	April	55 61	571	626				
	May	61 60	551	612 615				
	June July	69 66	546 527	615 593				
	August	62	500	562	1			
	September	59	476	535				
	p 10111001			500	1			

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

'Monthly data not available.

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

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Coal

Coal production in September 1982 was 62.7 million short tons, 23.3 percent less than the 81.7 million short tons produced in September 1981.

Electric utility coal consumption in August 1982 totaled 54.8 million short tons, 0.5 percent more than consumption in August 1981.

Electric utility coal stocks of 175.2 million short tons at the end of August 1982 were 32.9 million short tons (23.1 percent) above the level 1 year earlier.

Imports of coal in August 1982 totaled 10 thousand short tons. Exports of coal in August 1982 totaled 7.4 million short tons, 34.7 percent less than the amount exported during August 1981. Coal exports in August 1982 were principally to Japan (22.1 percent), Canada (20.6 percent), and Europe (48.7 percent).

Part 6



Coal Bituminous Coal, Lignite, and Anthracite

		Production	Domestic Consumption	Imports ¹	Exports ²	Stocks ³
			Tho	usand short tons		
1973	TOTAL	598,568	562,584	127	53,587	104,335
1974	TOTAL	610,023	558,402	2,080	60,661	96,323
1975	TOTAL	654,641	562,641	940	66,309	128,050
1976	TOTAL	684,913	603,790	1,203	60,021	134,438
1977	TOTAL	697,205	625,291	1,647	54,312	157,098
1978	TOTAL	670,164	625,225	2,953	40,714	145,551
1979	TOTAL	781,134	680,524	2,059	66,042	181,646
1980	January	69,594	63,517	121	4,460	179,450
	February	65,546	59,679	193	4,041	176,808
	March	70,953	58,852	93	5,633	176,649
	April	69,658	52,636	63	7,563	185,367
	May	71,043	52,834	207	8,597	193,920
	June	71,338	56,098	104	8,899	199,299
	July	61,285	63,122	32	8,247	187,913
	August	68,399	62,752	166	9,270	190,689
	September	68,822	57,306	. 2	8,364	194,447
	October	72,290	55,775	139	9,454	201,975
	November	68,655	56,799	3	8,987	204,436
	December	72,117	63,359	70	8,228	204,028
	TOTAL	829,700	702,730	1,194	91,742	204,020
1981	January	R65,927	67,580	35	5,795	198,603
	February	R70,918	R59,735	104	6,771	197,962
	March	R78,266	R60,069	77	9,710	207,340
	April	R36,253	54,649	63	8,271	187,143
	May	R38,100	R55,025	96	6,086	168,126
	June	R61,555	R59.685	138	6,158	158,274
	July	R74,076	67,394	13	10,762	154,423
	August	R78,782	R65,896	150	11,315	157,141
	September	R81,720	R59,722	69	11,900	164,970
	October	R85,241	59,161	94	12,360	175,384
	November	R76,577	R58,695	76	11,849	183,044
	December	R76,360	R65,017	127	11,564	185,274
	TOTAL	R823,775	R732,627	1,043	112,541	100,274
1000	lamam.ub	66.070	Dec 177	74	0.177	170.000
1982	January†	66,073	R69,177	71	6,177	173,833
	February†	70,002	R59,751	30	8,964	173,193
	March†	R82,668	R58,243	12	10,423	179,171
	April†	R72,706	53,267	10	10,831	186,458
	May+	R70,262	54,839	109	10,110	192,926
	Junet	R70,827	55,944	9	10,680	198,376
	July†	57,781	NA	69	9,182	NA
	August†	68,394	NA	10	7,385	NA
	September+	62,696	NA	NA	NA	' NA

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

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

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

Bituminous coal is the only type of coal imported during the years shown above.

Excludes shipments of anthracite to U.S. Armed Forces overseas (340,000 short tons in 1980).

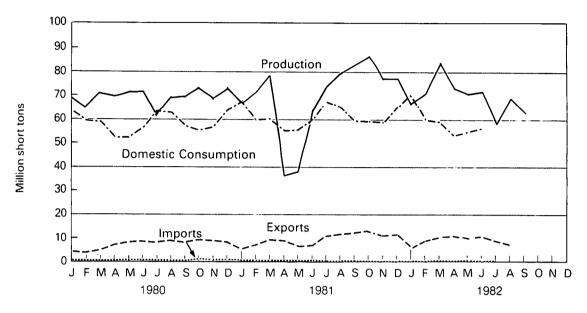
Stocks held by electric utilities, coke plants, and general industry at the end of period. Excludes stocks at retail dealers that are consumed by the residential and commercial sector.

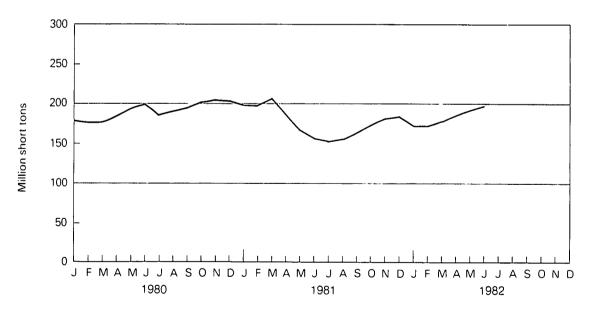
Hereliminary data. R = Revised data. NA = Not available.

Sources: • See the last page of this section.

CoalBituminous Coal, Lignite, and Anthracite

Production, Consumption, Imports, and Exports





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	January February	50,371 47,512	6,339 6,010	5,944 5.400	864 756	63,517 59,679
	March	46,685	6,429	5,199	539	58,852
	April	40,692	6,247	5,118	578	52,636
	May	41,464	6,127	4,894	349	52,834
	June	45,821	5,326	4,675	276	56,098
	July	53,655	4,903	4,222	342	63,122
	August	53,214	4,878	4,337	323	62,752
	September	47,913	4,794	4,170	429 585	57,306 55,775
	October	45,092 45,698	5,107 5,152	4,990 5,331	619	56,799
	November December	51,157	5,152	6,067	792	63,359
	TOTAL	569,274	66,657	60,347	6,451	R702,730
1981	January	54,688	5,465	6,532	895	67,580
	February	47,914	5,177	5,932	R712	R59,735
	March	48,398	5,532	R5,665	474 560	R60,069
	April	43,677 44,999	4,862 4,259	5,548 5,297	562 R470	54,649 R55,025
	May June	50,080	4,460	3,297 R4,845	300	R59,685
	July	56,144	5,449	5,371	430	67,394
	August	54,483	5,434	5.520	R459	R65,896
	September	48,483	5,340	R5,312	R587	R59,722
	October	47,800	5,158	5,577	626	59,161
	November	47,014	5,037	5,793	R851	R58,695
	December	53,116	4,842	R6,003	R1,056	R65,017
	TOTAL	596,797	61,014	R67,395	R7,421	R732,627
1982	January†	57,284	4,444	6,474	R975	R69,177
	February†	48,878	4,340	5,858	R675	R59,751
	March†	47,884	R4,173	5,641 5,382	R545 687	R58,243 53,267
	April†	43,490 45,622	3,708 3,622	5,382 5,143	452	54,839
	May† June†	45,622 47,424	3,481	4,691	348	55,944
	July†	55,313	NA	NA	NA	NA NA
	August†	54,755	NA	NA	NA	NA

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

Coal Stocks¹—Bituminous Coal, Lignite, and Anthracite

			Indu	ustrial	
		Electric Utilities	Coke Plants ²	Other Industrial	Total ³
			Thousand	short tons	
1973		86,967	6,998	10,370	104,335
1974		83,509	6,209	6,605	96,323
1975		110,724	8,797	8,529	128,050
1976		117,436	9,902	7,100	134,438
1977		133,219	12,816	11,063	157,098
1978		128,225	8,278	9,048	145,551
1979		159,714	10,155	11,777	181,646
1980	January February March	158,717 157,124 157,625	9,634 9,263 9,317	11,099 10,421 9,707	179,450 176,808 176,649
	April May June	165,817 174,029 178,959	9,579 9,692 9,913	9,971 10,199 10,427	185,367 193,920 199,299
	July August September	168,806 171,891 175,067	8,427 7,866 8,213	10,680 10,932 11,167	187,913 190,689 194,447
	October November December	182,045 184,133 183,010	8,488 8,606 9,067	11,442 11,697 11,951	201,975 204,436 204,028
1981	January February March April May	176,975 175,715 183,983 169,221 153,415	9,634 10,211 10,788 6,952 4,850	11,994 12,036 12,569 10,970 9,861	198,603 197,962 207,340 187,143 168,126
	June July August September October November December	144,520 140,124 142,318 149,526 159,676 167,002 168,893	4,500 5,074 5,648 6,163 6,308 6,392	9,254 9,225 9,175 9,281 9,400 9,650	158,274 154,423 157,141 164,970 175,384 183,044
1982	January† February† March† April† May† June† July† August†	158,371 158,136 164,518 171,390 177,461 182,513 174,502 175,194	6,475 6,207 5,909 5,612 5,931 6,231 6,532 NA NA	9,906 9,255 9,148 9,041 9,137 9,234 9,330 NA NA	185,274 173,833 173,193 179,171 186,458 192,926 198,376 NA NA

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

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

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

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

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

†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 guarterly 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,

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

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

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

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

where $S_b = beginning stocks$.

R = receipts

S_e = ending stocks.

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

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

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

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

$$C_{m} = (C_{m3}/C_3) \times C \tag{3}$$

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

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

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

Sources

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

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

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

Electric Utilities

August 1982 production of electricity by utilities was 205.7 billion kilowatt-hours, 2.3 percent lower than the August 1981 production level. Coal-fired production totaled 110.1 billion kilowatt-hours, 1.6 percent higher than the August 1981 level. Natural gas-fired production totaled 34.4 billion kilowatt-hours, 6.8 percent below the August 1981 level. Nuclear production was 25.0 billion kilowatthours in August 1982, 7.3 percent below the August 1981 level. Hydroelectric production was 23.9 billion kilowatt-hours, 10.5 percent above the level 1 year earlier. Petroleumfired production totaled 11.8 billion kilowatthours, 26.5 percent below the August 1981 level.

Sales of electricity to all ultimate consumers in the United States in August 1982 were 189.7 billion kilowatt-hours, an increase of 3.4 percent from sales of the month before but 4.4 percent below August 1981 sales. Sales to residential consumers during August 1982 were 69.9 billion kilowatt-hours, 0.6 percent below sales for the corresponding month in 1981. Commercial sales were 49.7 billion kilowatt-hours, 1.5 percent more

than the amount sold to commercial consumers in August 1981. Sales to industrial consumers totaled 63.3 billion kilowatt-hours in August 1982, 12.1 percent less than the 1981 figure. In August 1982, other sales totaled 6.8 billion kilowatt-hours, 4.7 percent below the August 1981 level.

Electric utility petroleum consumption (excluding petroleum coke) during August 1982 was 19.9 million barrels, a 26.7-percent drop from the August 1981 level. Coal consumption for August 1982 was 54.8 million short tons, 0.5 percent above the August 1981 rate. During August 1982, consumption of natural gas by electric utilities was 361.3 billion cubic feet, 7.3 percent below the August 1981 consumption level.

On August 31, 1982, utility stocks of anthracite, bituminous coal, and lignite totaled 175.2 million short tons. Stockpiles were 23.1 percent above the level of August 1981. Petroleum stocks (excluding petroleum coke) on August 31, 1982, totaled 120.0 million barrels, 8.3 percent below the level on the same date in 1981.









Electric Utilities

Net Electricity Production by Primary Energy Source

		Coal	Petroleum ²	Natural Gas	Nuclear	Hydro	Other ³	Total
				Mill	ion kilowatt-hoi	urs .		
1973	TOTAL	847,651	314,343	340,858	83,479	272,083.	2,294	1,860,710
1974	TOTAL	828,433	300,931	320,065	113,976	301,032	2,703	1,867,140
1975	TOTAL	852,786	289,095	299,778	172,505	300,047	3,437	1,917,649
1976	TOTAL	944,391	319,988	294,624	191,104	283,707	3,883	2,037,696
1977	TOTAL	985,219	358,179	305,505	250,883	220,475	4,063	2,124,323
1978	TOTAL	975,742	365,060	305,391	276,403	280,419	3,315	2,206,331
1979	TOTAL	1,075,037	303,525	329,485	255,155	279,783	4,387	2,247,372
1980	January	103,258	24,986	26,349	19,746	25,278	388	200,005
	February	98,151	24,781	24,755	19,277	21,378	373	188,715
	March	95,386	20,415	26,891	20,039	24,332	401	187,464
	April	83,562	16,025	24,181	18,794	25,748	410	168,720
	May	84,884	16,545	26,587	18,385	28,865	468	175,734
	June	93,692	18,020	31,295	18,322	27,656	445	189,430
	July	108,457	23,289	39,063	21,024	24,469	475	216,776
	August	107,580	24,885	37,647	24,333	20,431	517	215,393
	September	97,557	17,815	33,580	23,572	18,491	469	191,485
	October	91,196	15,858	28,592	24,510	17,866	533 ·	·178,555
	November	93,501	19,989	24,338	20,984	19,217	520	178,550
	December	104,339	23,386	22,961	22,130	22,290	506	195,613
	TOTAL	1,161,562	245,994	346,240	251,116	276,021	5,506	2,286,439
1981	January	111,765	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	113,818	20,677	22,611	25,678	26,904	411	210,098
	February	96,906	15,220	20,920	20,188	26,698	380	180,310
	March	97,625	13,474	23,598	22,756	29,879	330	187,662
	April	88,124	11,192	23,232	21,785	27,928	328	172,588
	May	93,011	9,851	24,318	21,639	28,063	381	177,261
	June	95,308	10,418	27,968	24,026	28,027	458	186,204
	July	110,458	13,382	33,339	25,467	27,412	485	210,543
	August	110,122	11,762	34,418	24,986	23,888	480	205,656

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

*Includes bituminous coal, lignite, and anthracite.

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

*Includes geothermal and wood and waste.

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

Electric Utilities

Electricity Sales¹

		Residential	Commercial	Industrial	Other ²	Total
			Millio	on kilowatt-hour	s	
1973	TOTAL	579,231	388,266	686,085	59,326	1,712,909
1974	TOTAL	578,184	384,826	684,875	58,039	1,705,924
1975	TOTAL	588,140	403,049	687,680	68,222	1,747,091
1976	TOTAL	606,452	425,094	754,069	69,631	1,855,246
1977	TOTAL	645,239	446,514	786,037	70,571	1,948,361
1978	TOTAL	674,466	461,163	809,078	73,215	2,017,922
1979	TOTAL	682,819	473,307	841,903	73,070	2,071,099
1980	January	65,841	39,578	67,532	6,634	179,585
	February	64,514	39,528	68,508	6,171	178,720
	March	60,497	38,762	69,086	6,028	174,373
	April	51,749	36,453	67,908	5,591	161,702
	May	45,699	36,110	67,235	5,807.	154,851
	June	52,267	40,129	66,739	5,737	164,872
	July	68,611	45,525	65,531	6,215	185,882
	August	75,020	47,763	67,415	6,266	196,464
	September	67,969	46.028	69,570	6,572	190,139
	October	54,014	40,479	69,413	6,174	170,080
	November	50,539	37,954	67,613	6,068	162,174
	December	60,775	39,846	68,517	6,469	175,607
	TOTAL	717,495	488,156	815,067	73,732	2,094,449
1981	January	74,087	43,229	67,076	7,557	191,949
	February	66,359	41,345	67,411	7,092	182,207
	March	57,660	39,541	68,590	7,035	172,826
	April	50,914	37,910	68,138	6,562	163,525
	May	48,348	39,331	68,714	6,780	163,173
	June	56,165	44,244	71,641	6,777	178,827
	July	69,990	48,989	71,712	7,124	197,814
	August	R70,299	R49,003	R72,010	R7,147	R198,459
	September	60,173	45,877	70,986	6,585	183,620
	October	51,985	41,175	69.132	6,388	168,679
	November	50,754	38,746	66,139	6,490	162,129
	December	60,826	40,782	64,130	6,637	172,375
		*		•	•	•
	TOTAL	R717,560	R510,172	R825,679	R82,174	R2,135,583
1982	January	76,264	44,947	62,939	7,929	192,079
	February	69,128	43,459	62,778	7,441	182,805
	March	60,498	41,710	64,496	7,255	173,959
	April	54,918	40,036	62,723	6,836	164,512
	May	49,092	40,021	62,480	6,976	158,569
	June	54,083	44,206	63,684	6,766	168,739
	July	65,704	48,211	62,617	7,035	183,567
	August†	69,906	49,720	63,306	6,808	189,740

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

[†]Preliminary data.

R = Revised data. For further explanation of factors used in revising data, see the Technical Notes section of the Energy Information Administration, *Electric Power Monthly,***Source: *1973 through February 1980: FPC Form 5, "Monthly Statement of Electric Operating Revenue and Income"; March 1980 forward: FERC Form 5, "Electric Utility Company Monthly Statement."

Electric UtilitiesPrimary Energy Consumed to Produce Electricity

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

Matural

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

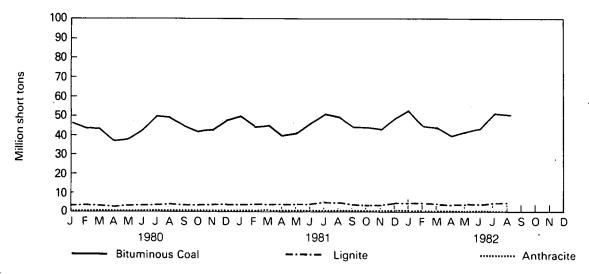
Totals may not equal sum of components due to independent rounding.

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

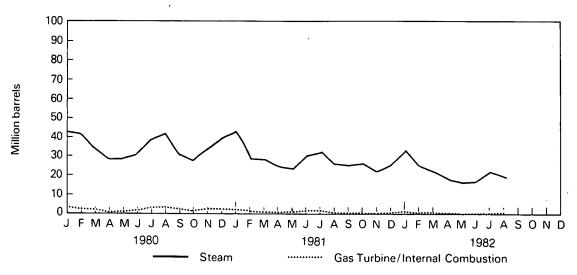
Electric Utilities

Primary Energy Consumed to Produce Electricity

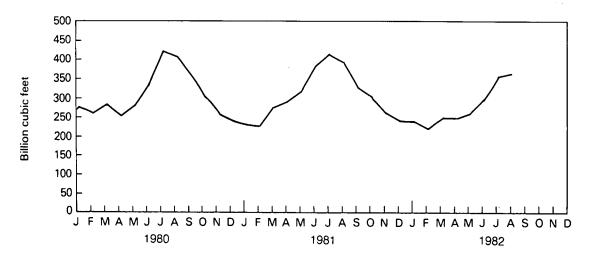
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



Electric Utilities

End-of-Month Coal and Petroleum Stocks

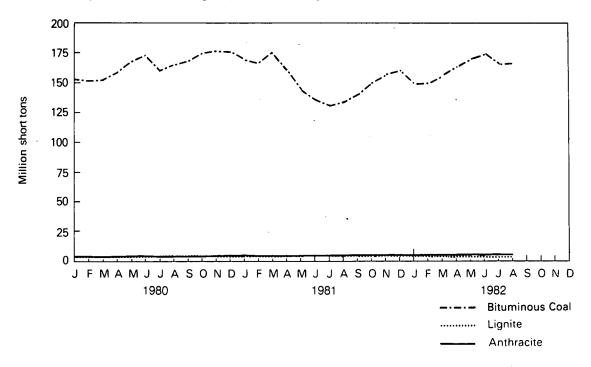
			Со	al ·		Petroleum				
		Anthracite	Bituminous Coal	Lignite	Total	Steam	Gas Turb./ Int. Comb.	Total Liquids	Petroleum Coke	
			Thousand sh	ort tons		TI	nousand barrel	s .	Thousand short tons	
1973		‡1,066	‡84,941	‡961	‡86,967	‡ 79,121	‡10,095	‡89,216	‡312	
1974		‡930	‡81,712	‡867	‡83,509	‡97,718	‡15,199	‡112,917	‡35	
1975		‡982	‡107,927	‡1,815	‡110,724	‡108,825	‡16,432	‡125,257	‡31	
1976		11,000	1114,130	‡2,306	1117,436	1106,993	114,703	1121,696	‡32	
1977		‡2,321	±128,210	12,688	±133,219	±124,750	‡19,281	1144,031	144	
1978		‡2,178	‡123,020	‡3,027	‡128,225	1102,402	‡16,386	1118,788	±198	
1979		‡3,274	‡152,981	13,459	‡159,714	‡111,121	‡20,301	±131,422	‡183	
1980	January	3,371	151,891	3,455	158,717	114,313	19,597	133,909	175	
1300	February	3,451	150,151	3,522	157,124	111,353	19,055	130,409	168	
	March	3,488	151,022	3,116	157,625	116,246	18,934	135,180	154	
	April	3,533	158,441	3.843	165,817	118,824	19,201	138,025	103	
	May	3,725	166,325	3.980	174,029	123,043	19,485	142,529	69	
	June	3,838	171,042	4,079	178,959	124,177	19,273	143,450	65	
	July	3,955	161,159	3,691	168,806	121,596	18,680	140,276	65	
	August	4,098	163,756	4,036	171,891	118,514	18,150	136,664	63	
	September	4,291	166,515	4,262	175,067	122,240	18,064	140,304	61	
	October	4,481	173,411	4,153	182,045	124,046	18,398	142,445	60	
	November	4,661	175,489	3,983	184,133	119,863	18.051	137,915	53	
	December	4,741	174,154	4,115	183,010	117,227	18,147	135,374	52	
1981	January	4,824	167,884	4,267	176,975	110,533	18,199	128,732	51	
	February	4,859	166,552	4,304	175,715	112,879	17,315	130,195	52	
	March	4,951	174,554	4,478	183,983	111,490	17,421	128,911	52	
	April	5,035	159,645	4,541	169,221	109,455	17,197	126,652	52	
	May	5,008	143,500	4,907	153,415	112,172	17,073	129,245	52	
	June	5,081	134,321	5,119	144,520	109,988	17,957	127,945	49	
	July	5,269	129,684	5,171	140,124	110,476	16,856	127,332	48	
	August	5,337	132,072	4,909	142,318	114,016	16,801	130,817	47	
	September October	5,428 5,512	138,808 148,952	5,290	149,526	112,992	16,515	129,506	46	
	November	5,512 5,548	156,360	5,213 5,094	159,676 167,002	110,900 110,939	16,164 16,077	127,063	44 43	
	December	5,537	158,258	5,098	168,893	112,380	15,756	127,016 128,136	43 42	
1982	January	5,517	148,227	4,628	158,371	104,921	15,014	119,935	39	
	February	5,401	148,118	4,617	158,136	103,055	14,775	117,830	40	
	March	5,488	154,724	4,305	164,518	107,718	14,301	122,018	43	
	April	5,542	161,720	4,128	171,390	105,604	14,274	119,877	42	
	May	5,569	167,805	4,088	177,461	105,278	14,407	119,685	41	
	June	5,603	172,819	4,092	182,513	107,947	13,913	121,861	43	
	July	5,658	164,687	4,157	174,502	105,374	14,583	119,956	43	
	August	5,791	165,182	4,221	175,194	106,171	13,787	119,958	42	

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
‡Total as of December 31.
Source: • Energy Information Administration Form 759, "Monthly Power Plant Report."

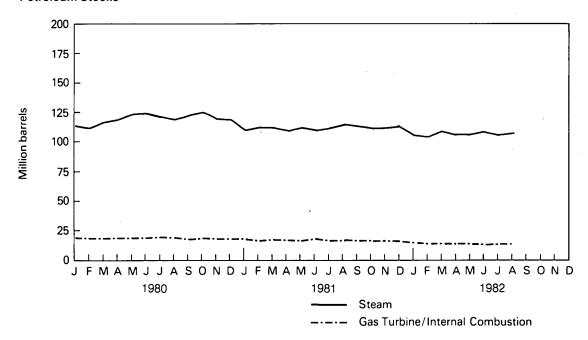
Electric Utilities

End-of-Month Coal and Petroleum Stocks

Coal Stocks (Bituminous Coal, Lignite, and Anthracite)



Petroleum Stocks



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			•

Nuclear

During August 1982, nuclear powerplants generated a total of 25.0 billion net kilowatthours of electricity, 1.9 percent below July 1982 generation and 7.8 percent below August 1981 output. Nuclear power accounted for 12.1 percent of the electricity generated by utilities in August 1982.

On August 6, the Nuclear Regulatory Commission (NRC) issued a low-power license to South Carolina Electric & Gas Company's Summer-1 unit. This pressurized water reactor has a net design electrical rating (DER) of 900 megawatts (MWe). On August 18, the NRC granted LaSalle-1, a boiling water reactor with a DER of 1,078 MWe, a full-power license. Thus, as of August 31, 1982, there were 79 licensed U.S. power reactors with a combined net capacity (maximum dependable capacity or design electrical rating) of 60,520 MWe. Of these 79 units, 4 were in startup or low-power testing (Grand Gulf-1, San Onofre-2, Summer-1, and Susquehanna -1), 2 were in power ascension (LaSalle-1 and Seguovah-2), and 16 generated no electricity or operated substantially below capacity in August (Brunswick-1, Brunswick-2, Browns Ferry-2, Cook-1, Davis-Besse, Indian Point-3, La Crosse, Nine Mile Point-1, North Anna-1, North Anna-2, Oconee-3, Palisades, Robinson-2, San Onofre-1, Three Mile Island-1, and Trojan).

In August, Houston Lighting and Power formally cancelled Allen's Creek-1, a 1,200-MWe boiling water reactor that never went beyond the planning stage, while the Tennessee Valley Authority announced cancellation of three 1,233-MWe boiling water reactors, all of which were under construction at the time: Hartsville-B1, Hartsville-B2, and Phipps Bend-1. The loss of these 4 units reduced the total number of power reactors in all stages of planning, construction, or operation as of August 31 to 151, with an aggregate capacity of 142.0 million net kilowatts. Thus, during the first 8 months of 1982, a total of 12 units, representing a potential capacity of 14.76 million net kilowatts (almost 25 percent of the total U.S. operational nuclear capacity in August) were cancelled.







Nuclear

Nuclear Powerplant Operations

Million net Million net Million net Million net Rilowatts Percent			Reactors Licensed For Commercial Operations ¹	Nuclear-Based Electricity Generation ²	Nuclear Portion of Domestic Electricity Generation	Maximum Dependable Capacity¹	Capacity Factor ³
1974 AVERAGE 53 113,976 6.1 29.921 43.5 1975 AVERAGE 56 172,505 9.0 35.671 55.2 1976 AVERAGE 62 191,104 9.4 40.642 53.5 1977 AVERAGE 67 250,883 11.8 45.554 62.9 1978 AVERAGE 71 276,403 12.5 49.385 63.9 1979 AVERAGE 71 255,155 11.4 50.604 57.6 1980 January 68 19,746 9.9 48.669 54.5 February 69 19,277 10.2 50.617 56.0 March 69 20,039 10.7 50.606 53.2 April 71 18,794 11.1 52.572 49.7 May 71 18,385 10.5 52.574 47.0 June 71 18,385 10.5 52.574 47.0 June 71 18,382 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7					Percent		Percent
1975 AVERAGE 56 172,505 9.0 35.671 55.2 1976 AVERAGE 62 191,104 9.4 40.642 53.5 1977 AVERAGE 67 250,883 11.8 45.554 62.9 1978 AVERAGE 71 276,403 12.5 49.385 63.9 1979 AVERAGE 71 255,155 11.4 50.604 57.6 1980 January 68 19,746 9.9 48.669 54.5 February 69 19,277 10.2 50.617 56.0 March 69 20,039 10.7 50.606 53.2 April 71 18,794 11.1 52.572 49.7 May 71 18,385 10.5 52.574 47.0 June 71 18,322 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71	1973	AVERAGE	40	83,479	4.5	13.850	63.2
1976 AVERAGE 62 191,104 9.4 40.642 53.5 1977 AVERAGE 67 250,883 11.8 45.554 62.9 1978 AVERAGE 71 276,403 12.5 49.385 63.9 1979 AVERAGE 71 255,155 11.4 50.604 57.6 1980 January 68 19,746 9.9 48.669 54.5 February 69 19,277 10.2 50.617 56.0 March 69 20,039 10.7 50.606 53.2 April 71 18,794 11.1 52.572 49.7 May 71 18,385 10.5 52.574 47.0 June 71 18,322 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 </th <th>1974</th> <th>AVERAGE</th> <th>53</th> <th>113,976</th> <th>6.1</th> <th>29.921</th> <th>43.5</th>	1974	AVERAGE	53	113,976	6.1	29.921	43.5
1977 AVERAGE 67 250,883 11.8 45.554 62.9 1978 AVERAGE 71 276,403 12.5 49.385 63.9 1979 AVERAGE 71 255,155 11.4 50.604 57.6 1980 January 68 19,746 9.9 48.669 54.5 February 69 19,277 10.2 50.617 56.0 March 69 20,039 10.7 50.606 53.2 April 71 18,794 11.1 52.572 49.7 May 71 18,385 10.5 52.574 47.0 June 71 18,322 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7	1975	AVERAGE	56	172,505	9.0	35.671	55.2
1978 AVERAGE 71 276,403 12.5 49.385 63.9 1979 AVERAGE 71 255,155 11.4 50.604 57.6 1980 January 68 19,746 9.9 48.669 54.5 February 69 19,277 10.2 50.617 56.0 March 69 20,039 10.7 50.606 53.2 April 71 18,794 11.1 52.572 49.7 May 71 18,385 10.5 52.574 47.0 June 71 18,322 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7	1976	AVERAGE	62	191,104	9.4	40.642	53.5
1979 AVERAGE 71 255,155 11.4 50.604 57.6 1980 January 68 19,746 9.9 48.669 54.5 February 69 19,277 10.2 50.617 56.0 March 69 20,039 10.7 50.606 53.2 April 71 18,794 11.1 52.572 49.7 May 71 18,385 10.5 52.574 47.0 June 71 18,322 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7	1977	AVERAGE	67	250,883	11.8	45.554	62.9
1980 January 68 19,746 9.9 48.669 54.5 February 69 19,277 10.2 50.617 56.0 March 69 20,039 10.7 50.606 53.2 April 71 18,794 11.1 52.572 49.7 May 71 18,385 10.5 52.574 47.0 June 71 18,322 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7	1978	AVERAGE	71	276,403	12.5	49.385	63.9
February 69 19,277 10.2 50.617 56.0 March 69 20,039 10.7 50.606 53.2 April 71 18,794 11.1 52.572 49.7 May 71 18,385 10.5 52.574 47.0 June 71 18,322 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7	1979	AVERAGE	71	255,155	11.4	50.604	57.6
March 69 20,039 10.7 50.606 53.2 April 71 18,794 11.1 52.572 49.7 May 71 18,385 10.5 52.574 47.0 June 71 18,322 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7	1980	January		19,746	9.9	48.669	54.5
April 71 18,794 11.1 52.572 49.7 May 71 18,385 10.5 52.574 47.0 June 71 18,322 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7		February	69	19,277	10.2	50.617	56.0
May 71 18,385 10.5 52,574 47.0 June 71 18,322 9.7 52,425 48.5 July 71 21,024 9.7 52,525 53.8 August 71 24,333 11.3 52,311 62.5 September 71 23,572 12.3 52,188 62.7		March	69	20,039	10.7	50.606	53.2
June 71 18,322 9.7 52.425 48.5 July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7		April	71	18,794	11.1	52.572	49.7
July 71 21,024 9.7 52.525 53.8 August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7		May	71	18,385	10.5	52.574	47.0
August 71 24,333 11.3 52.311 62.5 September 71 23,572 12.3 52.188 62.7		June	71	18,322	9.7	52.425	48.5
September 71 23,572 12.3 52.188 62.7		July	71	21,024	9.7	52.525	53.8
=-,=		August	71	24,333	11.3	52.311	62.5
October 70 04.510 10.7 50.100 01.0		September	71	23,572	12.3	52.188	62.7
October 72 24,510 13,7 53,180 61,9		October	72	24,510	13.7	53.180	61.9
November 72 20,984 11.8 53,031 55,0		November	72	•	11.8		
December 72 22,130 11.3 52,597 56,6		December	72	• ,	11.3		
AVERAGE 71 251,116 11.0 51.941 55.1		AVERAGE	71	251,116	11.0	51.941	55.1
1981 January 73 23,779 11.5 54.374 58.8	1981	January	73	23,779	11.5	54.374	58.8
February 73 21,595 12.0 54.372 59.1		February	73	21,595	12.0	54.372	59.1
March 73 22,004 11.9 54.429 54,3		March	73	22,004	11.9	54.429	54.3
April 73 20,646 12.0 54.095 53.1		April	73	20,646	12.0	54.095	
May 73 19,723 11.1 54.074 49.0		May	73	19,723	11.1	54.074	
June 74 21,166 10.4 55.214 53.2		June	74	21,166	10.4	55.214	
July 74 23,080 10.5 54.998 56.4		July	74	23,080	10.5	54.998	
August 74 26,946 12.8 54,820 66,1		August	74	•			
September 75 24,398 13.1 56.974 60.5		September	75	•			
October 75 20,556 11.3 56.412 48.9		October	75		11.3		
November 74 22,783 13.0 55.328 57.2		November	74		13.0		
December 74 25,997 13.3 55.524 62.9		December	74		13.3		
AVERAGE 74 272,674 11.9 55.051 56.6		AVERAGE	74	272,674	11.9		
1982 January 74 25,678 12.2 55.471 62.2	1982	•	• •			55.471	62.2
February 75 20,188 11.2 56.608 53.1				•		56.608	53.1
March 75 22,756 12.1 56.609 54.0				22,756	12.1	56.609	54.0
April 76 21,785 12.6 57.415 52.8		April		21,785	12.6	57.415	52.8
May 76 21,639 12.2 57.428 50.6		May		21,639	12.2	57.428	50.6
June 77 24,026 12.9 58.559 57.0		June	77	24,026	12.9	58.559	57.0
July 78 25,467 12.1 R59.600 R57.4		July .	78	25,467	12.1	R59.600	R57.4
August 79 24,986 12.1 60.520 55.5		August	79	24,986	12.1	60.520	55.5

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

¹See Notes on the last page of this section.

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

³Average percentage of the net maximum dependable capacity utilized yearly or monthly.

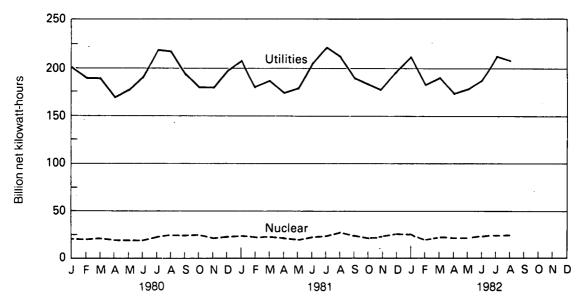
R = Revised data.

Sources: • See the last page of this section.

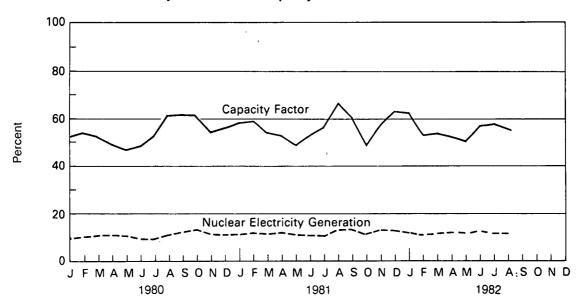
Nuclear

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 Units¹

		Reactors Licensed For Commercial Operations ²	Construction Permits Granted	Construction Permits Pending	Reactor Units on Order	Reactor Units Announced	Total Reactor Units	Total Design Capacity ^s (Million Net Kilowatts)
1973	•	40	51	58	48	20	217	212
1974		53	58	80	28	16	235	234
1975		56	69	73	19	19	236	236
1976		62	72	66	16	19	235	236
1977	•	67	80	52	13	9	221	220
1978		71	90	32	9	4	206	204
1979		71	91	21	3	0	186	180
1980	January	68	90	17				
1300	February	69	89	16	3 3	0 0	178	173
	March	69	87	14	3		177	172
	April	71	85	14	3	0	173	168
	May	71	85	14	3	0	173	168
	June	71	85	14	3	0	173	168
	July	71	85	14	3	0	173	168
	August	7 i 71	85	14	3	0 0	173	168
	September	71	85	14			173	168
	October	71 72	84	14	3	0	173	168
	November	72 72	82	14	3	0	173	168
	December	72 72	82 82		3	0	171	166
		· -		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	69	6	2	0	155	147
	August	79	65	5	2	0	151	142

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

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

²See Notes on the last page of this section.

³Entries in this column are based on design electrical ratings. See definition in Note 1 on the last page of this section.

Sources: • See the last page of this section.

Notes and Sources for the Nuclear Section

Notes

1. Units & Definitions: The units used to describe electricity generation and generating capacity at nuclear plants are based on the watt, a unit of power. Power is the rate at which energy (e.g., electricity) is produced, or is capable of being produced. A nuclear powerplant may have more than one type of power rating, including:

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

utility for the purpose of plant design

(b) Maximum Dependable Capacity (MDC), Gross-The gross electrical output as measured at the output terminals of the turbine generator(s) during the most restrictive seasonal conditions (usually summer).

(c) Maximum Dependable Capacity (MDC), Net-The gross maximum dependable capacity less the nominal station service load.

The nominal station service load for a nuclear plant is about 5 percent of its gross generation.

(d) Thermal Capacity—The rate of heat production by the reactor core. The Nuclear Regulatory Commission authorizes a

maximum thermal power rating for U.S. reactors.

2. Nuclear Powerplant Operations: For most reactors the net maximum dependable capacity (MDC) is used. Where the net MDC is not available, the net design electrical rating (DER) is used. Starting with January 1980 entries, the restricted capacity of "derated" units (i.e., units for which the Nuclear Regulatory Commission or the operating utility has imposed a "power limit") is used in place of either the net MDC or net DER to provide a more realistic estimate of true available capacity.

3. Status of Nuclear Reactor Units: These figures include reactors in fuel-loading, power-testing, and power-ascension stages. They also include two Department of Energy, dual-purpose reactors—Shippingport (capacity = 60 MWe) and Hanford (capacity = 850 MWe) which, while they are not licensed by the Nuclear Regulatory Commission, do generate electricity on a commercial basis. Not included in the above table is the Experimental Breeder Reactor-2 which generates electricity but does commercial basis. Not included in the above table is the Experimental breeder reactor-2 which generates electricity but does not distribute it commercially. Beginning with January 1980 data, three units (each of which had been inoperative for at least nine months prior to that time) are deleted from this table due to their uncertain futures: Humboldt Bay (capacity=65 MWe), which requires major seismic modifications; Dresden-1 (capacity=200 MWe), also in need of major modifications, and Three Mile Island-2 (capacity=906 MWe), whose core was severely damaged by a loss-of-coolant accident in March 1979.

Sources

Nuclear Powerplant Operations: • Capacity data for units in commercial operation or start-up testing—Nuclear Regulatory Commission Report NUREG—0020, "Licensed Operating Reactors."
• Generation Data—Energy Information Administration Form 759, "Monthly Power Plant Report."

Status of Nuclear Reactor Units: • Compiled from various sources, primarily the Department of Energy, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones," and from the Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels.

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Price

Crude Oil

The average price of domestic crude oil purchased at the wellhead was \$28.18 per barrel in August 1982. This was 0.5 percent below the previous month's level and 9.5 percent below the level in August 1981.

During August 1982, the composite refiner acquisition cost of crude oil was \$31.64 per barrel, \$0.10 per barrel (0.3 percent) below the previous month's price of \$31.74. The price of imported crude oil decreased \$0.46 per barrel from the July 1982 level to \$32.98 per barrel in August. This price was 7.9 percent below the August 1981 level. The price of domestic crude oil in August 1982 was \$31.02, an increase of \$0.10 per barrel from the July 1982 average.

Residual Fuel Oil

The average price, excluding taxes, of No. 6 residual fuel oil sold to utilities, industry, and other ultimate consumers in August 1982 was \$28.47 per barrel, \$0.86 per barrel (2.9 percent) below the previous month's price and 6.7 percent below the August 1981 average. The average price, excluding taxes, of No. 6 residual fuel oil sold to resellers, bulk plants, jobbers, and other wholesale accounts in August 1982 was \$26.34 per barrel, \$0.37 (1.4 percent) above the July 1982 average but 2.5 percent below the August 1981 average.

Heating Oil

The national average price of heating oil sold to residential customers in August 1982 was 116.3 cents per gallon. This was 0.4 percent above the selling price in July 1982 but 2.6 percent below the August 1981 price. The average distributor margin on residential heating oil in July was 18.6 cents per gallon,

14.8 percent above the margin during August 1981. The refiners' national average selling price to resellers and retailers was 92.5 cents per gallon in August 1982, 5.8 percent below the August 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 August 1982 was 95.4 cents per gallon, an increase of 0.1 percent from the previous month's average but a 7.6-percent decrease from the August 1981 average.

Motor Gasoline

The national average retail price of all grades and all types of motor gasoline was 129.5 cents per gallon in September 1982. Leaded regular gasoline at all types of stations sold for an average of 123.6 cents per gallon in September, 1.8 cents (1.4 percent) lower than the price in August. The price of unleaded regular gasoline at all types of stations was 130.8 per gallon in September, 1.5 cents (1.1 percent) lower than the price in August.

Liquefied Petroleum Gases

The average wholesale price of propane during August 1982, excluding taxes, was 43.6 cents per gallon, 9.8 percent above the previous month's level but 7.6 percent below the August 1981 level.

In August 1982, the average wholesale price of butane, excluding taxes, was 72.2 cents per gallon, 3.6 percent above the previous month's price and 19.1 percent above the August 1981 average.

Part 9

Price Petroleum Price Summary

	•	Actual Domestic Average	Refiner A	cquisition Cost o	of Crude Oil ²	No. 6 Residual Oil Pri Average³		
		Wellhead Price	Domestic	Imported	Composite	Wholesale	Retail ⁴	
				Dollars per ba	arrel			
1976	AVERAGE	8.19	8.84	13.48	10.89	10.72	11.49	
1977	AVERAGE	8.57	9.55	14.53	11.96	11.96	13.23	
1978	AVERAGE	9.00	10.61	14.57	12.46	11.51	12.75	
1979	AVERAGE	12.64	14.27	21.67	17.72	17.66	18.67	
1980	January	17.86	19.78	30.75	24.81	24.41	26.21	
	February	18.81	21.22	32.40	26.11	23.34	26.48	
	March	19.34	22.07	33.42	26.88	21.11	25.33	
	April	20.29	22.89	33.54	27.09	19.09	22.87	
	May	21.01	23.63	34.33	27.85	20.22	23.75	
	June	21.53	24.48	34.48	28.80	20.44	24.09	
	July	22.26	25.05	34.51	28.73	21.28	23.86	
	August	22.63	24.98	34.44	28.70	22.25	25.00	
	September	22.59	25.37	34.46	28.96	22.47	25.31	
	October	23.23	26.21	34.63	29.56	24.06	26.68	
	November	23.92	26.51	35.09	29.79	28.12	30.10	
	December	25.80	28.55	35.63	31.39	29.76	32.33	
	AVERAGE	21.59	24.23	33.89	28.07	23.14	26.09	
1981	January	28.85	32.71	38.85	34.86	31.14	33.65	
	February	34.14	36.27	39.00	37.28	31.81	36.04	
	March	34.70	36.97	38.31	37.48	31.78	36.11	
	April	34.05	35.58	38.41	36.58	30.56	34.70	
	May	32.71	35.21	37.84	36.11	30.41	34.11	
	June	31.71	34.20	37.03	35.03	25.95	31.03	
	July	31.13	33.76	36.58	34.70	26.52	30.57	
	August	31.13	33.79	35.82	34.46	27.01	30.52	
	September	31.13	33.47	35.44	34.11	26.20	30.33	
	October	31.00	33.48	35.43	34.07	26.78	30.32	
	November	30.98	33.49	36.21	34.33	27.99	30.16	
	December	30.72	33.51	35.95	34.33	27.26	30.90	
	AVERAGE	31.77	34.33	37.05	35.24	28.86	32.50	
1982	January	30.87	33.39	35.54	33.95	27.07	29.83	
	February	29.76	32.71	35.48	33.40	26.29	30.02	
	March	28.31	31.08	34.07	31.81	25.73	29.50	
	April	27.65	30.27	32.82	30.83	25.46	28.21	
	May	27.67	30.37	32.78	31.02	26.52	28.93	
	June	28.11	30.79	33.79	31.74	26.62	29.59	
	July	R28.33	R30.92	R33.44	R31.74	25.97	29.33	
	August†	28.18	31.02	32.98	31.64	26.34	28.47	
	September	NA	NA	NA	NA	NA	NA	

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

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

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

Wholesale refers to the price of residual fuel 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. Excludes tax.

See additional footnotes on the following page.

Price Petroleum Price Summary (continued)

		No. 2 Die Aver	-		ng Oil Price rage	Gasoline Price Average All Types	Propane Price Average ⁷	Butane Price Average ⁷
		Wholesale ⁴	Retail⁴ ੑ	Wholesale	Retail	Retail	Wholesale ⁴	Wholesale ⁴
				••	Çents per gal	lon		
1976	AVERAGE	31.9	34.7	32.6	40.6	. NA	20.6	21.9
1977	AVERAGE	36.1	39.3	36.9	46.0	. NA	25.0	25.4
1978	AVERAGE	37.1	40.2	38.7	49.4	65.2	24.0	23.0
1979	AVERAGE.	58.2	62.4	53.0	65.6	88.2	29.5	45.8
1980	January	76.0	82.2	75.2	90.8	111.0	41.8	. 73.3
	February	78.3	85.0	79.0	95.3	118.6	42.7	70.1
	March	79.8	87.8 .	80.4	97.1	123.0	41.0	66.8
	April	80.4	88.0	81.0	97.4	124.2	41.2	63.1
	May	80.5	87.8	81.4	97.2	124.4	41.7	63.7
	June	81.7	88.6	82.5	97.9	124.6	41.2	58.2
	July	81.9	87.6	83.0	97.9	124.7	40.8	53.8
	August	81.6	86.9	82.9	97.9	. 124.3	40.6	53.1
	September	80.3	86.6	83.0	98.1	.5 123.1	41.4	51.2
	October	81.5	85.9	83.7	98.7	122.3	. 43.2	54.3
	November	83.6	88.9	86.1	101.1	122.2	45.1	65.5
	December	87.5	92.4	91.3	106.5	· 123.1	46.5	72.7
	AVERAGE	81.2	87.3	82.2	97.8	122.1	42.4	62.9
1981	January	92.5	100.9	98.6	114.4	126.9	46.5	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	R101.1	98.6	R115.8	131.8	R39.7	R69.7
	August	†92.3	†101.7	†96.8	†116.3	131.0	†43.6	†72.2
	September	NA NA	NA NA	NA NA	NA	129.5	NA	NA
	Coptomber	,	, , ,			•	t	•

Footnotes continued.

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

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

*Wholesale refers to the price at which refiners, resellers, retailers, and gas plants sell to one another; including sales to agricultural and industrial accounts. Excludes butane/propane mixtures. †Preliminary data. R = Revised data. NA = Not available.

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

Price FOB Cost of Crude Oil Imports from Selected Countries¹

		Algeria	Indonesia	Iran	Libya	Mexico	Nigeria	Saudi Arabia	United Arab Emirates	United Kingdom	Venezuela
						Dollar	s per barrel				
1976	AVERAGE	13.05	12.76	11.61	12.55	NA	13.08	11.69	11.94	NA	11.32
1977	AVERAGE	14.36	13.57	12.67	13.90	13.42	14.44	12.37	12.83	NA	12.68
1978	AVERAGE	14.10	13.64	12.65	13.75	13.24	14.04	12.70	13.24	13.82	12.45
1979	AVERAGE	20.65	19.35	23.71	22.43	20.29	21.80	17.63	19.58	21.20	17.37
1980	January	33.67	29.67	29.28	35.72	29.43	31.57	26.25	29.85	30.77	25.34
	February	34.03	31.11	NA	35.71	31.77	33.39	26.62	30.95	32.66	24.82
	March	36.74	31.54	(2)	35.88	30.56	35.59	26.85	29.34	34.34	24.02
	April	36.93	32.22	(²)	35.30	30.24	36.11	27.78	30.38	34.15	23.85
	May	37.10	32.40	(²)	36.13	30.68	36.50	28.50	32.67	34.10	24.82
	June	37.61	32.90	(²)	36.83	30.76	36.99	28.95	33.34	36.28	25.56
	July	38.40	33.19	(2)	37.26	31.84	37.17	28.47	· NA	36.26	24.34
	August	37.53	33.01	· (2)	37.01	31.87	36.69	29.74	NA	34.83	25.30
	September	37.21	33.13	(²)	36.94	31.21	36.38	30.34	NA	35.18	24.21
	October	37.60	32.31	(²)	37.15	31.27	36.82	30.19	NA	35.66	22.71
	November	37.05	32.94	(²)	36.90	31.59	36.87	31.43	NA	35.47	26.83
	December	37.37	33.21	(2)	37.58	32.33	36.79	32.01	NA	35.00	26.66
	AVERAGE	36.57	32.37	(²)	36.41	31.11	35.82	28.53	NA	34.58	24.78
1981	January	39.37	36.54	(2)	40.52	35.88	40.11	32.39	NA	38.34	32.87
	February	40.13	36.13	$\binom{2}{2}$	40.73	36.57	40.03	32.60	NA	39.41	30.36
	March	40.30	36.40	$\binom{2}{2}$	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	$\binom{2}{2}$	38.91	34.45	39.11	32.13	NA	37.16	28.39
	June	39.20	36.95	$\binom{2}{2}$	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	34.67 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 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	22.31
	July	R34.35	R35.22	31.44	(²)	R28.32	R35.15	R33.26	NA NA	R33.66	23.50
	August†	33.03	35.63	31.17	(²)	27.67	35.13	32.61	NA NA	33.33	20.71
	J		30.00		()	21.01	00.10	J2.01	INA	33.33	20.7 1

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

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

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

Price Landed Cost of Crude Oil Imports from Selected Countries¹

v .		Algeria	Canada	Indonesia	Iran ·	Libya	Mexico	Nigeria	Saudi Arabia	United Arab Emirates	United Kingdom	Venezuela
		-					Dollars pe	r barrel				
1975	AVERAGE	12.72	12.72	13.79	12.21	12.35	NA	12.62	12.30	12.87	NA	11.65
1976	AVERAGE	13.81	13.57	13.82	12.82	13.58	NA	13.80	13.04	13.30	NA	, 11.80°
1977	AVERAGE	15.20	14.21	14.63	13.80	14.87	13.75	15.25	·13.61	14.04	NA	13.13
1978	AVERAGE	14.91	14.50	14.64	13.88	14.72	13.54	14.86	13.92	14.39	NA	12.83
1979	AVERAGE	21.90	20.43	20.69	25.02	23.68	20.86	22.96	19.15	21.90	22.16	18.18
1980	January	35.32	27.73	31.03	30.37	37.10	30.18	33.03	27.85	32.35 32.71	32.14 34.07	26.25 25.91
	February	35.28	28.60	32.95	NA	36.98	32.38	35.25	28.15		35.73	24.97
	March	38.54	30.75	33.04	(2)	37.18	31.17	36.93	28.26	30.96		25.10
	April	38.52	30.31	33.81	(²)	36.57	30.77	37.41	29.14	32.29	35.34	25.10
	May	38.54	31.16	33.73	(²)	37.36	31.22	37.53	30.30	34.06	35.82	25.93 26.42
	June	38.71	31.26	34.51	(²)	38.09	31.43	38.15	30.16	34.96	37.41	
	July	39.60	31.31	34.81	(2)	38.39	32.60	38.23	30.04	ŅΑ	37.25	25.47
	August	38.60	31.44	34.81	(²)	38.38	32.62	37.77	31.24	NA	36.20	26.37
	September	38.28	30.97	34.64	(2)	38.30	31.93	37.60	31.86	NA	36.35	25.47
	October	38.77	29.22	33.65	(2)	38.53	31.96	37.75	31.73	NA	36.82	23.92
	November	38.41	28.81	34.55	(2)	38.22	32.42	37.97	32.86	ŊΑ	36.62	27.75
	December	38.63	32.72	34.64	(²)	39.04	33.76	38.11	33.40	ΝA	36.31	27.66
	AVERAGE	37.90	30.47	33.92	(²)	37.72	31.80	37.05	30.02	NA	35.88	25.86
4004	laminani	41.25	34.26	38.08	(²)	41.81	36.81	41.55	34.06	NA	39.90	33.80
1981	January	41.25	33.73	37.86	(²)	42.19	37.23	41.46	34.38	NA	40.69	31.20
	February		33.88	38.11	(²)	41.60	36.42	40.98	34.42	NA	40.72	32.09
	March	41.62		37.95	(²)	41.58	34.42	41.04	34.16	NA	40.02	30.97
	April	40.96	33.74	37.93	(²)	40.46	34.83	40.10	33.73	NA	38.31	29.39
	May	40.81	32.70			41.44	31.03	39.60	34.29	NA	37.04	31.46
	June	40.31	32.67	38.73	(2)		33.18	40.05	33.72	NA	35.87	29.22
	July	39.59	31.19	37.20	(2)	40.27 40.30	31.77	40.85	33.23	NA	35.40	28.11
	August	40.65	30.44	37.07	(2)			37.20	33.66	NA	35.26	29.12
	September	41.62	30.83	37.52	(2)	37.73	30.84		34.88	NA	36.00	28.27
	October	37.52	31.17	36.39	(²)	38.15	31.34	36.64		NA NA	36.87	29.27
	November	37.43	31.04	36.84	(2)	38.50	32.42	37.59	34.91		37.44	29.00
	December	38.14	31.37	37.31	(²)	38.89	31.85	37.52	35.37	NA		
	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
		R35.26	R26.62	R37.04	32.08	(²)	R28.95	R36.19	R35.04	NA	R34.67	24.61
	July August†	33.87	26.40	36.81	31.84	$\binom{2}{2}$	28.19	36.09	34.29	NA	34.09	21.90

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

Price U.S. City Average Retail Prices for Motor Gasoline¹

		Leaded Regular	Unleaded Regular	Leaded Premium	Average for All Types
			Cents per gallo	on, including tax	
1974	AVERAGE	53.2	NA	56.9	NA
1975	AVERAGE	56.7	NA	60.9	NA
1976	AVERAGE	59.0	61.4	63.6	NA
1977	AVERAGE	62.2	65.6	67.4	NA
1978	AVERAGE	62.6	67.0	69.4	65.2
1979	AVERAGE	85.7	90.3	92.2	88.2
1980	January	108.6	113.1	114.9	111.0
	February	115.9	120.7	123.3	118.6
	March	120.2	125.2	127.7	123.0
	April	121.2	126.4	129.2	124.2
	May	121.5	126.6	129.5	124.4
	June	121.7	126.9	130.0	124.6
	July	121.6	127.1	130.7	124.7
	August	121.0	126.7	131.0	124.3
	September	119.7	125.7	130.4	123.1
	October	118.8	125.0	130.1	122.3
	November	118.8	125.0	129.9	122.2
	December	119.7	125.8	131.0	123.1
	AVERAGE	119.1	124.5	128.1	122.1
1981	January	123.8	129.8	133.8	126.9
	February	132.1	138.2	141.0	135.3
	March	135.2	141.7	144.9	138.8
	April	134.4	141.2	145.1	138.1
	May	133.3	140.0	144.7	137.0
	June	. 132.4	139.1	144.6	136.2
	July	131.5	138.2	144.6	135.3
	August	131.0	137.6	144.4	134.8
	September ²	130.5	137.6	145.6	135.8
	October	129.9	137.1	145.7	135.3
	November	129.7	136.9	146.2	135.1
	December	129.3	136.5	146.0	134.8
	AVERAGE	131.1	137.8	143.9	135.3
1982	January	128.5	105.0	4.5	
1302	February		135.8	145.6	134.1
	March	126.0	133.4	143.8	131.8
	April	120.6	128.4	140.7	126.8
	May	114.8	122.5	136.8	121.0
	June	116.6	123.7	137.9	122.4
	July	124.2	130.9	140.8	129.6
	August	126.3	133.1	145.0	131.8
	September	125.4	132.3	145.8	131.0
	ochtember	123.6	130.8	144.1	129.5

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

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

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

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

Price

Aviation Fuel

		Aviation Ga	asoline	Naphtha-Type ¹	Kerosene-	Туре
		Wholesale ²	Retail ²	Retail ²	Wholesale ²	Retail ²
			Cents	s per gallon, excludi	ng tax	
1976	AVERAGE	42.4	43.1	31.5	32.5	31.2
1977	AVERAGE	46.7	47.7	35.0	36.7	35.8
1978	AVERAGE	51.0	52.1	37.5	38.9	38.9
1979	AVERAGE	68.5	69.5	52.3	66.5	55.1
1980	January	90.6	90.0	76.0	83.4	77.0
	February	98.5	97.8	80.1	86.2	83.0
	March	102.9	107.0	84.1	86.4	86.3
	April	104.8	109.6	83.2	88.4	87.4
	May	106.2	109.7	89.1	89.0	87.6
	June	107.7	111.4	90.0	86.1	88.6
	July	109.3	113.4	91.4	88.3	89.7
	August	110.2	112.9	90.6	86.2	90.7
	September	110.8	113.4	92.9	86.4	88.8
	October	110.9	113.0	91.2	87.6	88.7
	November	112.4	113.0	92.5	89.9	91.0
	December	115.1	117.2	96.0	91.4	91.6
	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	96.2	95.0	95.4

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

¹Nearly all naphtha-type fuels are sold directly to the Defense Fuel Supply Center. Consequently, wholesale prices are not applicable.

²Wholesale refers to the price of aviation fuel sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and aviation fuel distributors. Retail refers to the price of aviation fuel sold to ultimate consumers, including commercial airline and military accounts.

[†]Preliminary data.

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

Price

National Average Heating Oil Prices¹

	_		Trajori, je je	Average			
<i>:</i>		Refiners' Av Selling Pric Resellers and F	erage e to	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 g	nallon	-	•
'		·	•		janon .		•
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	January	75.0		75.2	•	16.2	,90.8
	February	77.8		79.0		16.7	,90.8 95.3
	March	78.8	•	80.4	•	17.1	95.3 97.1
	April ·	78.8	•	81.0		17.0	97.4
	May	79.3		81.4	•	16.3	97.4 97.2
	Juné	80.2	• .	82.5		15.8	
	July	\ 79.2	·	83.0		15.3	97.9
	August	79.3	·, •	82.9		15.2	· 97.9
	September	79.3	,	83.0		15.4	97.9
	October	80.7		83.7			98.1
	November	84.0		86.1		15.3	98.7
	December	88.6		91.3		13.8	101.1
	AVERAGE	80.0		•		14.1	106.5
-	,			82.2		15.8	97.8
1981	January	, 94.9	er Garage	98.6		15.1	114.4
	February	102.5	n Kara	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	5)	101.6		`17.2	119.7
	October	98.0	50.5	101.1		16.6	118.8
	November	100.0	. 41	102.3		17.6	120.8
	December	100.6		102.6		18.3	122.0
	AVERAGE	99.3		102.6	٠.٣	16.8	120.5
1982	January	99.1		101.5		19.3	122.0
•	February ,	. 94.7		98.3		21.3	122.0 120.7
	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	R93.8		98.6	,	R16.3	R115.8
	August+	92.5		96.8	. ,	18.6	116.3

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

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

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

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

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

Price Residential Heating Oil Prices by Region

Standard Federal Region¹

	•	Cents per gallon									
		1	2	3	4	5	6	7	8	9	10
1979	January	55.1	54.5	53.3	51.6	51.5	(2)	49.6	50.4	47.6	50.8
	February	57.7	57.3	55.5	53.2	53.7	(2)	51.3	51.4	49.4	52.9
	March	60.6	59.8	57.5	54.3	56.3	(s)	54.7	55.3	50.8	55.3
	April	62.8	61.9	60.0	57.3	58.8	(2)	58.2	58.4	53.8	57.8
	May	65.9	64.8	63.4	61.2	62.8	(²)	62.0	62.7	56.2	60.8
	June	70.5	69.7	68.4	66.2	68.5	(²)	68.9	67.8	62.2	66.4
	July	75.9	73.9	72.9	70.9	73.2	(²)	72.0	72.5	68.4	72.3
	August	80.1	78.6	77.7	74.8	78.5	(²)	76.4	77.1	71.7	77.2
	September	83.3	81.4	80.0	79.4	81.5	(²)	79.5	80.1	76.8	81.4
	October	84.1	82.5	81.7	79.1	82.6	(2)	80.2	81.3	81.2	82.6
	November	85.1	83.7	82.4	80.5	83.9	(²)	82.2	84.0	80.4	82.3
	December	87.2	85.7	85.1	82.9	86.1	(2)	85.3	86.3	82.6	84.6
1980	January	91.8	91.0	90.2	88.6	90.4	(²)	90.0	90.2	89.6	91.0
	February	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	(3)	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	(°)	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	(°)	118.2
	November	123.3	123.2	119.5	118.2	116.7	(2)	114.1	115.8	(°)	118.8
	December	124.8	124.7	120.7	119.0	117.4	(2)	112.4	117.1	(°)	120.0
1982	January	125.3	124.7	120.6	118.7	117.1	(²)	112.7	116.1	(a)	119.7
	February	123.2	123.7	119.3	115.3	116.0	(°)	110.9	114.9	(2)	119.5
	March	117.4	119.0	112.3	112.9	111.0	(²)	106.4	109.7	(a)	118.1
	April	113.9	116.6	112.2	109.4	108.7	(²)	100.8	106.3	(a)	116.0
	May	115.9	117.1	113.2	111.7	110.8	(²)	108.7	108.4	(a)	116.6
	June	117.5	118.5	115.2	113.5	114.4	(2)	111.8	112.3	(2)	116.0
	July	R117.7	R118.5	R113.4	115.2	R113.6	(2)	111.7	(2)	(a)	R115.9
	August†	119.0	118.9	115.2	112.5	111.8	(2)	(²)	(²)	(²)	116.3

¹Standard Federal Regions are defined in Note 7 on the last two pages of this section. ²Not available for publication. †Preliminary data. R = Revised data. Sources: • See the last two pages of this section.

Price Average No. 6 Residual Fuel Oil Prices

		0.0 to 0.3 percent sulfur		0.31 to 1.0 percent sulfur		Greater percen		Average		
		Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail	
					ollars per barr	el, excluding tax	es			
1976	AVERAGE	12.20	12.54	10.83	11.79	9.98	10.43	10.72	11.49	
1977	AVERAGE	13.45	14.36	12.09	13.45	11.31	12.27	11.96	13.23	
1978	AVERAGE	12.77	14.47	11.95	12.78	10.73	11.70	11.51	12.75	
1979	AVERAGE	19.87	21.21	18.33	19.33	15.89	16.44	17.66	18.67	
1980	January	29.11	30.35	26.15	28.12	21.56	21.98	24.41	26.21	
	February	27.07	30.32	25.82	28.15	20.21	22.22	23.34	26.48	
	March	26.88	30.20	23.73	27.29	17.81	20.34	21.11	25.33	
	April	25.16	28.69	20.38	24.78	16.41	18.36	19.09	22.87	
	May	25.48	31.73	22.72	25.77	17.72	18.04	20.22	23.75	
	June	23.14	31.37	22.35	25.44	17.72	19.27	20.44	24.09	
	July	24.89	28.51	23.44	25.55	19.20	20.58	21.28	23.86	
	August	23.20	30.93	24.98	26.11	20.42	21.45	22.25	25.00	
	September	24.27	33.12	23.46	26.31	20.62	21.71	22.47	25.31	
	October	25.72	31.88	25.86	27.99	22.30	23.29	24.06	26.68	
	November	29.52	33.70	29.40	30.89	27.08	27.50	28.12	30.10	
	December	31.69	35.76	31.29	32.61	28.39	30.03	29.76	32.33	
	AVERAGE	26.41	31.13	24.91	27.59	20.77	22.11	23.14	26.09	
1981	January	34.27	37.23	32.12	33.96	29.12	31.35	31.14	33.65	
	February	38.04	41.60	34.96	37.32	28.96	32.02	31.81	36.04	
	March	37.78	41.19	34.47	38.01	29.55	31.95	31.78	36.11	
	April	35.66	41.71	33.10	35.94	28.35	30.56	30.56	34.70	
	May	33.61	41.09	32.53	35.94	28.77	30.64	30.41	34,11	
	June	28.01	38.30	26.71	32.38	25.33	27.16	25.95	31.03	
	July	29.56	39.02	27.38	31.93	25.62	25.96	26.52	30.57	
	August	30.48	36.57	27.77	32.04	26.03	26.20	27.01	30.52	
	September	29.91	39.17	27.46	32.08	24.80	26.26	26.20	30.33	
	October	30.26	39.90	28.64	31.88	24.96	26.18	26.78	30.32	
	November	31.71	39.48	29.63	31.02	26.09	26.45	27.99	30.16	
	December	31.40	37.65	28.29	32.19	25.39	26.53	27.26	30.90	
	AVERAGE	32.97	39.31	30.56	33.69	27.07	28.57	28.86	32.50	
1982	January	33.03	37.56	28.90	31.13	24.60	25.94	27.07	29.83	
	February	31.67	38.41	29.30	30.95	23.60	24.70	26.29	30.02	
	March	30.95	38.96	27.60	30.57	23.45	24.21	25.73	29.50	
	April	30.11	36.77	27.08	30.00	23.57	24.40	25.73 25.46	29.50 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	26.93 29.59	
	July	30.05	37.46	R27.39	29.84	R24.19	26.49	25.97	29.59 29.33	
	August†	28.95	31.84	27.50	30.37	25.38	26.01	26.34	29.33 28.47	
	3 -1		•	27.00	50.01	20.00	20.01	20.34	20.47	

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

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

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

Price

Natural Gas

		Average Wellhead Value	Delivered to Electric Plant 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	January	R1.37	R2.00	3.58
	February	R1.42	2.10	3.61
	March	R1.46	R2.13	3.71
	April	R1.51	R2.09	3.71
	May	R1.56	R2.17	3.97
	June	R1.57	R2.15	3.98
	July	R1.64	R2.36	4.14 4.16
	August	R1.64	R2.45	4.16
	September	R1.69	R2.45	4.24
	October	R1.71	· R2.52 R2.37	3.99
	November	R1.76	H2.37 R2.31	4.07
	December	R1.74		3.95
	AVERAGE	R1.59	R2.28	*
1981	January	R1.77	R2.51	4.10 4.13
	February	R1.81	R2.67	4.13 4.21
	March	R1.86	R2.71	4.25
	April	R1.93	R2.81 R2.92	4.25 4.61
	May	1.95		4.61
	June	R1.95	R2.95 R2.97	4.64
	July	R2.01 R2.02	R2.99	4.70
	August September	R2.08	R2.95	4.90
	October	R2.11	R3.07	4.91
	November	R2.15	R3.07	4.88
	December	R2.16	R2.97	4.75
	AVERAGE	R1.98	R2.91	4.56
1982	January	R2.17	R3.07	4.86
	February	R2.19	R3.18	4.87
	March	R2.27	R3.25	5.06
	April	R2.31	R3.32	5.18
	Мау	R2.37	3.42	5.62
	June	R2.38	R3.57	5.61 5.59
	July	2.40	3.69	5.59

See Note below for explanation of revisions.

Geographic coverage: the 50 United States and District of Columbia. *Includes all electric utility generating plants with a combined capacity for 25 megawatts or greater. Small quantities of coke oven gas, refinery gas, and blast furnace gas are included. R=Revised data. Note: Average Wellhead Value-Revisions of 1980 monthly data reflect adjustments to conform with reported revisions to 1980 annual data. For details concerning these reported revisions see the EIA, *Natural Gas Annual 1981*. Monthly 1981 revisions are the result of adjustments to conform with final reported 1981 annual data. Revisions to 1982 data reflect, in part, the availability of reported data from the State of Texas covering several months for which EIA estimates had previously been used. Delivered to Electric Plants—Revisions to 1980 and 1981 monthly data are adjustments to conform with data reported in the EIA, *Cost and Quality of Fuel for Electric Utility Plants*, 1981. Sources: * See the last two pages of this section.

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 Utilities¹

			ACUIT EICON	io otility i	iuiitə		TOT PINVALEN	Owned Othi	lica	
		Coal	Residual Oil ²	Natural Gas³	All Fossil Fuels²	Residential	Commercial	Industrial	Other	Total ⁴
			Cents per	million Btu			Cents pe	r kilowatt-hou	r	
1973	AVERAGE	40.5	78.8	33.8	47.5	2.54	2.41	1.25	2.10	1.96
1974	AVERAGE	71.0	191.0	48.1	90.9	3.10	3.04	1.69	2.75	2.49
1975	AVERAGE	81.4	201.4	75.4	103.0	3.51	3.45	2.07	3.08	2.92
1976	AVERAGE	84.8	195.9	103.4	110.4	3.73	3.69	2.21	3.27	3.09
1977	AVERAGE	94.7	220.4	130.0	127.7	4.05	4.09	2.50	3.51	3.42
1978	AVERAGE	111.6	212.3	143.8	139.3	4.31	4.36	2.79	3.62	3.69
1979	AVERAGE	122.4	299.7	175.4	162.1	4.64	4.68	3.05	3.96	3.99
1980	January	128.7	423.5	194.8	187.3	4.69	4.90	3.32	4.19	4.21
	February	129.9	429.7	205.1	190.0	4.74	4.97	3.32	4.63	4.25
	March	130.1	409.8	207.9	184.2	4.92	5.17	3.45	4.69	4.40
	April	133.8	398.5	204.0	177.2	5.14	5.28	3.49	4.71	4.48
	May	133.4	403.5	212.0	180.4	5.41	5.44	3.59	4.97	4.63
	June	135.1	392.7	209.3	178.8	5.60	5.61	3.79	4.58	4.85
	July	137.4	394.5	228.2	199.0	5.66	5.65	3.93	4.93	5.03
	August	137.9	404.9	237.2	195.2	5.72	5.64	3.94	4.81	5.07
	September	138.9	411.3	238.7	193.1	5.69	5.73	3.89	4.95	5.03
	October	138.1	452.2	245.7	192.7	5.68	5.84	3.84	4.88	4.95
	November	139.3	496.0	231.3	200.0	5.60	5.70	3.85	5.06	4.89
	December	137.8	521.9	226:3	206.6	5.49	5.69	3.88	4.82	4.90
	AVERAGE	135.1	427.9	221.4	190.4	5.36	5.48	3.69	4.76	4.73
1981	January	142.7	540.2	245.9	219.2	5.43	5.72	3.94	4.92	4.96
	February	146.3	572.9	260.5	218.2	5.52	5.83	3.95	5.01	4.99
	March	148.3	583.9	264.0	215.0	5.76	6.01	4.04	5.33	5.12
	April	146.9	568.3	273.5	241.9	5.99	6.14	4.07	5.20	5.20
	May	146.7	552.8	282.7	250.6	6.26	6.29	4.16	5.47	5.36
	June	152.7	506.1	286.3	234.6	6.49	6.48	4.36	5.37	5.59
	July	156.5	496.3	288.6	227.5	6.58	6.47	4.48	5.61	5.76
	August	157.0	494.4	291.1	220.2	6.62	6.49	4.49	5.52	5.78
	September	157.2	501.0	286.5	212.3	6.63	6.48	4.49	5.65	5.74
	October	160.2	511.9	300.7	217.7	6.57	6.52	4.40	5.31	5.64
	November	159.1	521.0	300.0	215.1	6.42	6.48	4.46	5.43	5.61
	December	156.7	505.0	291.4	215.5	6.32	6.46	4.56	54.60	5.65
	AVERAGE	153.2	529.4	282.5	222.5	6.20	6.29	4.29	5.28	5.46
1982	January	160.8	484.6	301.0	226.5	6.22	6.49	4.66	5.44	5.74
	February	164.1	487.6	310.4	222.2	6.35	6.68	4.70	5.84	5.84
	March	165.6	470.9	315.8	219.8	6.58	6.79	4.83	6.39	5.97
	April	164.6	478.0	323.5	214.3	6.72	6.82	4.84	5.77	5.99
	May	165.0	486.0	331.6	215.7	6.94	6.86	4.95	5.91	6.09
	June	167.0	479.6	345.8	224.7	7.08	6.94	4.92	6.01	6.18
	July	164.4	468.8	356.2	237.6	7.18	6.98	5.12	6.13	6.38
	August†	NA	NA	NA	NA	7.22	6.91	5.14	6.09	6.40
	- '									- · · -

Geographic coverage: Fossil Fuels—the lower 48 States and District of Columbia. Electricity—the 50 United States and District of Columbia.

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

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

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

⁴Average price for total sales to ultimate consumers.

^{*}Includes a major adjustment by one utility. †Preliminary data. NA = Not available. Sources: • See the last two pages of this section.

Notes and Sources for the Price Section

Notes

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

1976, the wellhead price 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.

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 from those used for prior months. Data for January 1976 are derived from a survey of distributors, and prices and margins are computed as unweighted.

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:

7. Standard Federal Hegions are defined as follows:
Region 1 — Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island;
Region 2 — New York, New Jersey, Puerto Rico, Virgin Islands;
Region 3 — Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware;
Region 4 — Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone;
Region 5 — Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio;
Region 6 — Texas, New Mexico, Oklahoma, Arkansas, Louisiana;

Region 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.

- 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."
 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 Moreo Cylaboma, and Tower which teaction provided data for elements for persont of total U.S. market depotation. 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
- 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 July 1982 was 52.3 million barrels per day, down 0.9 million barrels per day (1.7 percent) from the June 1982 level.

Organization of Petroleum Exporting Countries (OPEC) output during July 1982 averaged 18.4 million barrels per day, down 0.5 million barrels per day from the previous month's average. Production by Arab members of OPEC averaged 11.4 million barrels per day, 0.1 million barrels per day lower than the June 1982 level.

Among OPEC members, Libya and Venezuela each increased production in July 1982 by 0.3 million barrels per day over their June 1982 averages. These increases were offset by a decline in Nigeria of 0.4 million barrels per day and declines of 0.3 million barrels per day in Iran and Saudi Arabia.

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

Petroleum Consumption

Preliminary petroleum consumption data for July 1982 were available for France, Italy, and the United States. In comparison to July 1981, consumption in France was about the same but consumption in Italy and the United States declined. The July 1982 U.S. consumption was 0.9 million barrels per day lower than in July 1981.

Petroleum Stocks

Preliminary data on petroleum stocks for June 1982 were available for Canada, France, Italy, Japan, the United States, and West Germany. Petroleum stocks in each country were lower than in June 1981. Petroleum stocks for all Organization for Economic Cooperation and Development members stood at 3,537 million barrels at the end of December 1981 (latest data available), a decrease of 29 million barrels (0.8 percent) from stocks held at the end of December 1980. The United States held 1,484 million barrels (42.0 percent) of the December 1981 stocks.

Nuclear Electricity Production

In August 1982, the 19 non-Communist nations with significant nuclear power capacity generated 64.1 billion gross kilowatt-hours of nuclear-based electricity, down 0.6 percent from the July 1982 output and 0.2 percent below the comparable output for August 1981.

During August 1982, two new units were added to the list of operational reactors: the Swedish State Power Board's Ringhals-2 unit, a 980-megawatt pressurized water reactor, and South Carolina Electric & Gas Company's Summer-1, a 900-megawatt pressurized water reactor. As of August 31, there were 230 operational non-Communist power reactors with a collective gross capacity of 155.1 million kilowatts. Of this capacity, 65.3 million kilowatts (42 percent) were associated with the 79 U.S. units.

Electricite de France's St. Laurent-des-Eaux-A2 unit resumed operation on August 24, after being down since March 1980, when a loss-of-coolant accident caused a partial meltdown of some fuel elements.

On July 28, the United States agreed to permit France to supply enriched fuel to India for continued operation of India's Tarapur-1 and Tarapur-2 boiling water reactors. Bilateral discussions are being held to determine a mutually acceptable disposition for the U.S. spent fuel previously supplied to the two units.







International **Crude Oil Production for Major Petroleum Producing Countries**

		Algeria	Iraq	Kuwait¹	Libya	Qatar	Saudi Arabia	United Arab Emirates	Arab Members of OPEC ²	Indo- nesia	Iran
					Thous	and barre	els per day				
1973	AVERAGE	1,097	2,018	3,020	2,175	570	7,596	1,533	18,009	1,339	5,861
1974	AVERAGE	1,009	1,971	2,546	1,521	518	8,480	1,679	17,724	1,375	6,022
1975	AVERAGE	983	2,262	2,084	1,480	438	7,075	1,664	15,986	1,307	5,350
1976	AVERAGE	1,075	2,415	2,145	1,933	497	8,577	1,936	18,578	1,504	5,883
1977	AVERAGE	1,152	2,348	1,969	2,063	445	9,245	1,999	19,221	1,686	5,663
1978	AVERAGE	1,161	2,563	2,131	1,983	487	8,301	1,831	18,457	1,635	5,242
1979	AVERAGE	1,154	3,477	2,500	2,092	508	9,532	1,831	21,094	1,591	3,168
1980	January	1,150	3,400	2,140	2,100	495	9,785	1,740	20,810	1,565	2,295
	February	1,150	3,400	2,335	2,100	460	9,780	1,740	20,965	1,550	2,500
	March	1,150	3,400	2,090	2,000	500	9,790	1,695	20,625	1,575	2,350
	April	1,000	3,300	1,570	1,750	500	9,765	1,705	19,590	1,580	2,200
	May	1,000	3,300	1,525	1,750	480	9,775	1,765	19,595	1,550	1,700
	June	1,000	3,300	1,575	1,700	440	9,775	1,750	19,540	1,545	1,500
	July	1,000	3,100	1,365	1,680	460	9,765	1,710	19,080	1,565	1,700
	August	1,000	3,100	1,465	1,690	465	9,765	1,665	19,150	1,565	1,600
	September	1,000	3,000	1,290	1,680	460	9,740	1,670	18,840	1,565	1,400 600
	October	1,000	150	1,385	1,665	440	10,255	1,675	16,540	1,585	
	November	1,000	350	1,505	1,680	475	10,265	1,695	16,930	1,630	800
	December	1,000	450	1,779	1,680	483	10,260	1,706	17,360	1,617	1,360
	AVERAGE	1,012	2,514	1,656	1,787	472	9,900	1,709	19,050	1,577	1,662
1981	January	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 AVERAGE	800 805	1,100 1,000	895 1,125	1,000 1,140	340 405	8,645 9,815	1,430 R1,474	14,210 R15,764	1,580 1,605	1,200 1,380
1982		800	1,500	805	1,000	405	8,655	1,450	14,615	1,490	1,100
1902	January February	700	1,500	840	600	375	8,440	1,430	13,830	1,450	1,100
	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	10,935	1,245	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	6,370	1,160	11,425	1,305	2,200
	July	000	000	0.0	,,550	2.0	0,070	1,100	11,720	.,000	2,200

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

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

*Includes about one-half of the production in the former Kuwait-Saudi Arabia Neutral Zone. In July 1982 total production in this region amounted to approximately 330,000 barrels per day.

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

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		USSR	Other	World
						Thousand	barrels pe	r day				
1973	AVERAGE	2,054	3,366	30,989	1,800	465	2	9,208	1,090	8,465	R3,655	R55,674
1974	AVERAGE	2,255	2,976	30,729	1,684	571	2	8,774	1,315	9,000	R3,777	R55,852
1975	AVERAGE	1,783	2,346	27,155	1,439	705	12	8,375	1,490	9,625	R4,079	R52,880
1976	AVERAGE	2,067	2,294	30,738	1,295	831	245	8,132	1,670	10,143	R4,258	R57,312
1977	AVERAGE	2,085	2,238	31,278	1,320	981	768	8,245	1,874	10,682	R4,537	R59,685
1978	AVERAGE	1,897	2,166	29,805	1,313	1,209	1,082	8,707	2,082	11,185	R4,674	R60,057
1979	AVERAGE	2,302	2,356	30,928	1,496	1,461	1,568	8,552	2,122	11,460	R4,948	R62,535
1980	January	2,155	2,280	29,535	1,515	1,720	1,600	8,675	2,111	11,615	5,060	61,831
	February	2,160	2,200	29,805	1,475	1,725	1,660	8,705	2,127	11,590	5,043	62,130
	March	2,155	1,995	29,100	1,475	1,830	1,670	8,698	2,119	11,615	5,020	61,527
	April	2,100	2,045	27,965	1,390	1,885	1,510	8,685	2,121	11,680	5,245	60,481
	May	2,200	2,150	27,645	1,470	1,910	1,600	8,635	2,133	11,750	4,903	60,046
	June	2,110 2,095	2,050 2,170	27,175 27,030	1,535 1,520	1,905 2,015	1,625	8,554	2,132	11,660	5,117	59,703
	July August	2,050	2,170	27,030	1,440	2,015	1,585 1,535	8,547 8,414	2,124 2,143	11,825 11,875	4,865 5,065	59,511 59,482
	September	1,600	2,190	25,955	1,420	2,125	1,540	8,619	2,110	11,950	4,963	58,462
	October	1,879	2,225	23,255	1,311	2,182	1,572	8,532	2,076	11,875	5,231	56,034
	November	2,062	2,230	24,065	1,467	1,901	1,731	8,495	2,088	11,930	5,101	56,778
	December	2,026	2,330	25,050	1,300	2,027	1,795	8,606	2,083	11,850	5,307	58,018
	AVERAGE	2,055	R2,168	26,890	•	R1,936	1,622	8,597		R11,773	R5,171	R59,538
1981	January	1,900	2,220	25,025	1,390	2,220	1,765	8,540	2,024	R11,900	R5,111	57,975
	February	1,960	2,195	25,075	1,390	2,120	1,820	8,604	2,025	R11,900	R5,161	58,095
	March	1,875	2,240	25,190	1,280	2,365	1,885	8,613		R11,900	R5,152	58,410
	April	1,625	2,200	24,215	1,330	2,540	1,750	8,557		R11,900		57,425
	May	1,295	2,200	23,380	1,250	2,545	1,770	8,501		R11,900		56,635
	June	1,350	1,990	22,945	1,235	2,300	1,765	8,629		R11,900		55,865
	July	770	1,760	21,620	1,270	2,095	1,750	8,500			R5,215	54,360
	August	710	1,960	21,050	1,235	2,260	1,760	8,583		R11,900		53,770
	September October	1,065 1,250	2,080 1,970	20,385 21,200	1,265 1,120	2,480 2,490	1,830 1,845	8,604 8,563		R11,900	R5,166	53,620
	November	1,590	2,230	20,575	1,120	2,490	1,840	8,586		R11,900 R11,900	R5,247	54,385 53,400
	December	1,820	2,260	21,230	1,380	1,980	1,840	8,585		R11,900	R5,109	54,100
	AVERAGE	R1,433	R2,102	R22,624	1,285	R2,313	R1,811	8,572	•	R11,909	R5,262	R55,788
1002	lanuani	1 765	1.005	04.005	1.010	•	•	•	•	•	•	•
1982	January February	1,765 1,395	1,985	21,285	1,218	2,315	1,905	8,669		R11,900	R5,488	R54,800
	March	945	1,730 1,870	19,950 18,615	1,275 1,182	2,550	1,955	8,690		R11,900	-	R53,900
	April	890	1,490	16,725	928	2,545 2,780	2,000 2,110	8,597 8,652		R11,900 R11,900		R52,200
	May	1,310	1,480	17,075	R1,114	2,760	2,110	8,660		R11,900		R50,600 R51,100
	June	1,645	1,500	18,845	R1,330	2,713	2,083	8,681		R11,900		R53,200
	July	1,280	1,800	18,360	1,300	2,790	2,150	8,649	2,025	11,900	5,126	52,300
	-·· /	.,	.,	,	.,000	_,, 00	_,.00	5,5 .5	_,0_0	,000	5,125	52,555

Footnotes continued.
³OPEC total includes production in Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, United Arab Emirates, Indonesia, Iran, Nigeria, Venezuela, Ecuador, and Gabon.
¹Other is a calculated total derived from the difference between world production and the nations represented above.
R = Revised data.
Sources: • See the last page of this section.

International Petroleum Consumption for Major Non-Communist Industrialized Countries¹

		Canada	France ²	Italy	Japan	United Kingdom	United States	West Germany	Other IEA ³	Total IEA ⁴
					Thou	isand barrels p	er day			
1973	AVERAGE	1,597	2,219	1,525	5,000	1,958	17,308	2,693	4,069	34,150
1974	AVERAGE	1,630	2,094	1,521	4,872	1,829	16,653	2,408	4,047	32,960
1975	AVERAGE	1,595	1,925	1,468	4,568	1,633	16,322	2,319	3,905	31,810
1976	AVERAGE	1,647	2,075	1,503	4,786	1,601	17,461	2,507	4,265	33,770
1977	AVERAGE	1,661	1,973	1,476	5,015	1,655	18,431	2,478	4,214	34,930
1978	AVERAGE	1,701	2,077	1,551	5,115	1,683	18,847	2,596	4,387	35,880
1979	AVERAGE	1,766	2,107	1,607	5,173	1,690	18,513	2,664	4,487	35,900
1980	January February March April May June July August September October November December AVERAGE	1,820 1,930 1,720 1,600 1,590 1,660 1,680 1,650 1,710 1,770 1,720 1,940 1,730	2,465 2,444 1,982 2,110 1,853 1,848 1,450 1,220 1,740 2,050 2,040 2,410 1,965	1,778 1,864 1,657 1,541 1,448 1,511 1,537 1,310 1,650 1,670 1,530 1,740 1,602	5,255 5,722 5,433 4,626 4,376 4,224 4,250 3,910 4,120 4,250 4,550 5,350 4,680	1,769 1,621 1,585 1,472 1,348 1,286 1,217 1,120 1,270 1,430 1,440 1,480 1,420	18,851 18,817 17,377 16,784 16,238 16,187 16,008 15,753 16,598 16,995 16,702 18,410 17,056	2,690 2,410 2,430 2,680 2,230 2,220 2,420 2,150 2,540 2,230 2,110 2,190 2,360	4,337 4,736 4,398 4,197 3,870 4,012 3,988 3,807 4,112 3,855 3,948 4,390 4,152	36,500 37,100 34,600 32,900 31,100 31,100 29,700 32,000 32,200 32,000 35,500 33,000
1981	January February March April May June July August September October November December AVERAGE	1,760 1,770 1,550 1,600 1,490 1,635 1,620 1,630 1,595 1,585 1,595 1,635 1,635	2,310 2,170 1,790 1,500 1,670 1,600 1,450 1,160 1,425 1,655 2,010 2,215 1,745	1,880 2,195 1,895 1,785 1,410 1,510 1,580 1,360 1,715 1,600 1,650 1,930 1,705	4,980 5,350 5,020 4,140 3,600 3,915 4,160 4,100 4,060 4,085 4,610 5,425 4,445	1,400 1,460 1,430 1,290 1,190 1,210 1,170 1,175 1,285 1,390 1,470 1,380 1,325	18,430 16,989 15,907 15,350 15,353 16,095 15,682 15,263 15,655 15,822 15,593 16,596 16,058	2,230 2,510 2,100 1,810 1,880 2,155 2,150 2,111 2,085 2,305 2,305 2,030 2,100 2,220	4,420 4,126 3,598 3,925 3,977 3,880 4,138 3,711 3,905 4,013 4,052 3,934 4,032	35,100 34,400 31,500 29,900 28,900 30,400 30,500 29,300 30,300 30,800 31,000 33,000 31,400
1982	January February March April May June July	1,530 1,715 1,510 1,350 1,325 1,430 NA	1,770 1,815 1,940 1,730 1,580 1,505 1,460	1,800 1,795 1,805 1,560 1,510 1,520 1,475	4,645 5,275 4,640 4,015 3,515 3,850 NA	1,400 1,465 1,560 1,340 1,210 1,280 NA	15,890 15,941 15,560 16,048 14,845 14,931 14,771	2,010 2,315 2,425 R2,125 R1,770 2,115 NA	3,725 4,094 4,100 R3,962 R3,625 3,774 NA	31,000 32,600 31,600 R30,400 27,800 28,900 NA

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

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

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

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

⁴The 21 signatory nations of the IEA are listed in Note 1 on the last page of this section.

R = Revised data. NA = Not available.

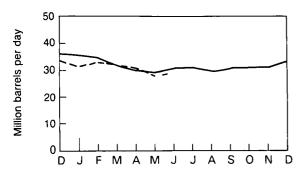
Note: Data for 1980 through 1982 are preliminary.

Sources: • See the last page of this section.

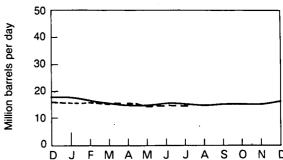
International

Petroleum Consumption

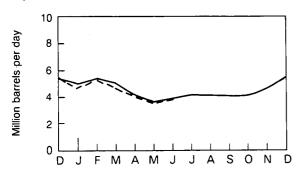




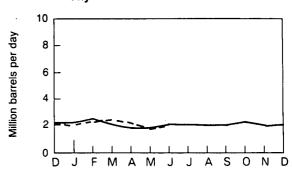
United States



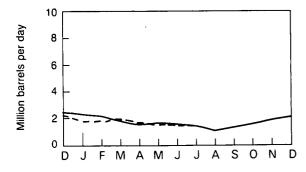
Japan*



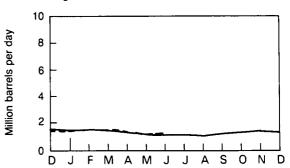
West Germany



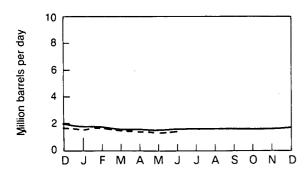
France**



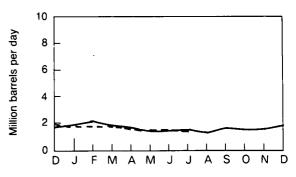
United Kingdom



Canada



Italy***





^{*}Excludes liquefied petroleum gases and condensates.

^{**}Not a member of IEA.

^{**&}quot;Principal products only.

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

		Canada	France	Italy	Japan	United Kingdom	United States	West Germany	Other OECD ²	Total OECD ³
						Million barrel	s			
1973		149	203	NA	303	156	1,008	NA	NA	NA
1974		164	240	169	370	191	1,074	215	NA	NA
1975		167	239	143	375	164	1,133	190	NA	NA
1976		156	231	142	394	165	1,112	214	NA	NA
1977		170	241	162	399	147	1,312	236	485	3,152
1978		148	214	153	422	147	1,278	239	487	3,089
1979		156	231	163	457	163	1,341	273	574	3,358
1980	January	156	228	164	445	164	1,351	282	NA	NA
	February	153	225	153	419	162	1,343	305	NA	NA
	March	156	233	152	427	163	1,348	299	561	3,339
	April	161	220	155	442	160	1,367	287	NA	NA
	May	168	233	164	463	167	1,387	300	NA	NA
	June	171	239	165	471	174	1,411	313	584	3,527
	July	178	247	176	494	172	1,425	308	NA	NA
	August	184	266	186	508	176	1,449	· 315	NA	NA
	September	183	264	192	508	173	1,447	306	620	3,693
	October	178	271	186	497	169	1,430	307	NA	NA
	November	172	260	179	488	170	1,432	313	NA	NA
-	December	171	254	173	481	169	1,392	323	600	3,566
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	587	3,471
•	April	174	235	169	484	165	1,415	322	NA	NA
	Мау	176	229	173	496	162	1,438	321	NA	NA
	June	179	225	171	484	158	1,430	312	607	3,566
	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	NA	NA	NA
	November	163	230	178	483	147	1,501	300	NA	NA
	December	164	222	167	466	145	1,484	297	592	3,537
1982	January	163	222	165	464	NA	1,461	280	NA	NA
	February	156	215	162	460	NA	1,431	280	NA	NA
	March	154	207	156	483	NA	1,401	302	NA	NA
	April	148	201	154	483	NA	1,350	312	NA	NA
	May	147	193	R154	484	NA	1,349	310	NA	NA
	June	148	200	156	483	NA	1,362	305	NA	NA

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

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

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

Petroleum stocks include all non-military petroleum held for storage, regardless of ownership, within each country in bulk terminals, refinery tanks, pipeline tankage, intercoastal tankers, tankers in port, and inland ship bunkers. Data exclude oil held in pipelines (except for the United States), rail and truck cars, sea-going ships' bunkers, service stations, retail stores, and tankers at sea.

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

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

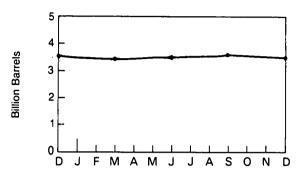
R=Revised data. NA=Not available.

Sources: . See the last page of this section.

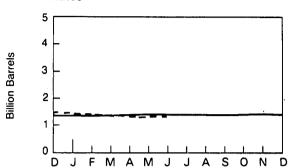
International

Petroleum Stocks

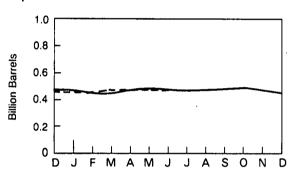
Total OECD



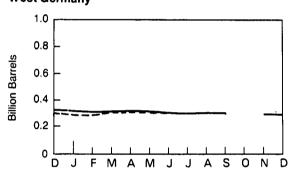
United States



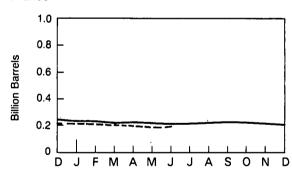
Japan



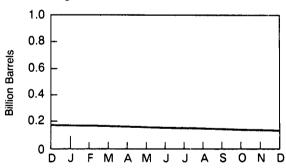
West Germany



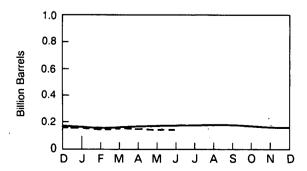
France



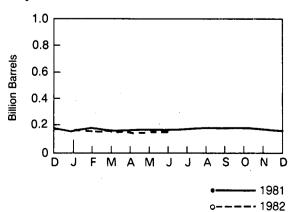
United Kingdom



Canada



Italy



97

International Nuclear Electricity Generation by Non-Communist Countries¹

		Argen- tina	Belgium	Brazil	Canada	Finland	France	India	Italy	Japan	Nether- lands	Paki- stan
						Billion gro	ss kilowat	t-hours				
1973	TOTAL	0	0	O	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	36.8	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	January	0.3	1.2	0	3.6	0.8	5.5	0.2	0.2	8.0	0.4	0
	February	0.1	1.0	0	3.5	0.8	5.3	0.1	0.4	7.4	0.4	0
	March	0	1.0	0	3.7	0.8	5.1	0.2	0.5	8.0	0.4	0
	April	0.1	0.5	0	3.2	8.0	5.0	0.3	0.4	5.6	0.3	0
	May	0.2	0.7	0	2.5	0.3	4.2	0.3	0.3	6.0	0.3	0
	June	0.2	1.1	0	3.1	0	4.1	0.2	0.1	6.7	0.3	0
	July	0.2	1.3	0	3.6	0.4	4.8	0.2	0.1	7.8	0.4	(s)
	August	0.3	1.3	0 0	3.9	0.4	3.2	0.3	0.1	8.6	0.4	(s)
	September	0.3 0.3	1.1 0.9	0	3.1 3.3	0.4	4.5 5.1	0.3	0.1	7.0	0.4	(s)
	October November	0.3	1.1	0	3.3 3.4	0.5 0.6	5.1 5.8	0.2 0.3	0	6.0 5.4	0.3	0
	December	0.3	1.1	0	3.4 3.5	1.2	5.6 8.5	0.3	0	5.4 6.3	0.3 0.3	(s)
	TOTAL	2.3	12.5	0	3.5 40.4	7.0	61.2	2.9	2.2	82.8	4.2	(s) 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 July	0.2 0.3	1.2 1.3	0 0	3.6 4.0	0.7 0.8	8.3 8.4	0.3 0.3	0.1 0.3	6.7 8.3	0.4 0.4	(s)
	August	0.3	1.2	0	4.0	1.4	7.7	0.3	0.3	8.5	0.4	(s) (s)
	September	0.2	0.9	Ö	3.3	1.5	7.7 8.5	0.2	0.1	6.4	0.4	(s) (s)
	October	0.3	1.0	0	3.4	1.4	8.1	0.2	0.1	5.6	0.4	(s) (s)
	November	0.2	1.3	ő	3.5	1.3	9.3	0.2	0.1	5.3	0.4	(s)
	December	0.2	1.3	ŏ	4.1	1.2	11.0	0.3	0.4	6.1	0.3	(s)
	TOTAL	2.8	12.8	Ö	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	ō	3.2	1.5	10.0	0.2	0.7	7.7	0.1	(s)
	March	0.3	0.5	Ö	3.5	1.7	10.6	0.2	0.7	9.2	(s)	Ö
	April	0.3	1.0	(s)	3.7	1.6	10.1	0.2	0.5	9.7	0.3	ŏ
	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	7.7	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)

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

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

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

Sources: • See the last page of this section.

International

Nuclear Electricity Generation by Non-Communist Countries¹ (continued)

		South Korea	Spain	Sweden	Switzer- land	Taiwan	United Kingdom²	West Germany	Non- Communist World Excluding U.S.	United States	Total Non- Communist World
						Billion gr	oss kilowatt	-hours			
1973	TOTAL	0	6.5	2.1	6.2	0	28.0	11.9	100.7	88.0	188.7
1974	TOTAL	0	7.2	1.6	7.0	0	34.0	12.0	121.1	104.5	225.6
1975	TOTAL	0	7.5	12.0	7.7	0	30.5	21.7	152.7	181.8	334.5
1976	TOTAL	0	7.6	16.0	7.9	0	36.8	24.5	187.3	201.7	389.1
1977	TOTAL	0.1	6.5	19.9	8.1	0.1	38.1	35.8	207.8	263.3	471.0
1978	TOTAL	2.3	7.6	23.8	8.3	2.7	36.7	35.9	263.6	292.7	556.3
1979	TOTAL	3.2	6.7	21.0	11.8	6.3	38.5	42.2	300.1	270.6	570.7
1980	January	0.1	0.7	2.5	1.5	0.9	3.7	4.7	34.2	21.1	55.3
	February	(s)	0.3	2.4	1.2	0.7	3.4	4.2	31.3	21.0	52.2
	March	0.4	0.4	2.3	1.3	0.8	4.2	3.4	32.4	21.0	53.4
	April	0.4	0.4	1.9	1.4	0.7	2.7	3.6	27.3	19.8	47.1
	May	0.4	0.4	1.6	1.4	0.4	2.6	3.5	25.1	19.6	44.7
	June	0.1	0.3	1.6	0.6	0.5	2.8	2.9	24.7	19.4	44.1
	July	0.4	0.3	1.3	0.6	0.8	2.0	3.0	27.2	22.4	49.6
	August	0.3	0.4	1.3	0.7	0.8	2.6	2.7	27.2	25.7	52.9
	September	0.4	0.4	2.1	1.3	0.8	3.1	3.2	28.4	24.8	53.2
	October	0.4	0.4	2.7	1.4	0.8	2.7	3.1	28.2	25.7	53.9
	November December	0.4	0.5 0.7	3.4	1.4 1.5	0.6	3.2	4.1	30.8	22.0	52.8
		0.3		3.6		0.5	4.2	5.3	37.5	23.1	60.7
	TOTAL	3.5	5.2	26.7	14.3	8.2	37.2	43.7	354.4	265.5	619.9
1981	January	0.3	0.8	3.5	1.5	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	0.7 0.6	3.7	1.5	0.8	4.2	4.9	39.1	23.1	62.2
	April May	0.2	0.6	3.3 2.8	1.4 1.4	0.8 0.8	2.8 2.5	4.4 4.3	36.5 36.6	21.7 20.9	58.2
	June	0.2	0.8	2.8	0.7	0.8	3.3	4.3 4.1	34.5	20.9	57.4 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	8.0	2.6	5.6	39.0	22.8	61.8
	June	(s)	0.7	1.9	0.6	1.0	3.3	4.2	35.6	25.3	60.9
	July	0.3	0.6	1.2	0.9	1.2	3.3	4.5	37.6	26.8	64.4
	August	0.4	0.7	2.0	1.0	1.2	3.7	4.5	37.7	26.4	64.1

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

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

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

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

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

Sources: • See the last page of this section.

Notes and Sources for the International Section

Notes

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

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

Sources

Crude Oil Production: • 1973-1981 annual data: Energy Information Administration, 1981 International Energy Annual.

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

other industry sources.

• 1980-1982 monthly data for World: Sum of data for all countries using above sources.

Petroleum Consumption: • Central Intelligence Agency, "International Energy Statistical Review" (except the United States).

• United States data: Energy Information Administration, Petroleum Supply Monthly.

• 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: • Nucleanics Week. Nuclear Electricity Generation: • Nucleonics Week.

Definitions

Anthracite

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

Bituminous Coal

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

Coke (Coal)

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

Crude Oil

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

Crude Oil Refinery Input

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

Crude Oil Stocks

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

Distillate Fuel Oil

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

Electricity Production

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

Ethane

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

Exports

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

Full-Serve Station

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

Imports

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

Landed Cost of Imported Crude Oil

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

Lease Condensate

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

Lignite

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

Liquefied Petroleum Gases

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

Line Miles of Seismic Exploration

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

Maximum Dependable Capacity, Net

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

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

Motor Gasoline

See Motor Gasoline, Finished and Motor Gasoline, Total.

Motor Gasoline, Average Retail Selling Price

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

Motor Gasoline, Finished

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

Motor Gasoline, Premium Grade

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

Motor Gasoline, Regular Grade

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

Motor Gasoline, Total

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

Natural Gas

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

Natural Gas Plant Liquids

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

Petroleum

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

Petroleum Coke

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

Petroleum Products

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

Propane

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

Refined Petroleum Product Supplied

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

Refiner Acquisition Cost

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

Residual Fuel Oil

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

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

Rotary Rig

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

Self-Serve Station

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

Startup Test Phase of Nuclear Powerplant

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

Stocks (Refined Petroleum Product)

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

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

Strategic Petroleum Reserve

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

Synthetic Natural Gas (SNG)

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

Unaccounted for Crude Oil

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

Wells, Exploratory and Development

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

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Conversion Factors

Approximate Heat Content of Various Fuels		1973	1974	1975	1976	1977	1978	1979	1980	1981-82‡
Anthracite										
Production	. Thousand Btu/short ton	23,170	22,560	23,390	22,770	23,180	23,520	23,590	23,350	23,350
Imports and exports		25,400	25,400	25,400	25,400	25,400	25,400	25,400	25,400	25,400
Consumption, average	. Thousand Btu/short ton	22,710	21,950	21,740	22,150	22,690	22,970	22,700	22,160	22,160
Electric utility consumption		17,920	17,200	17,060	17,530	17,240	17,100	17,450	17,650	17,650
Non-utility consumption		24,340	23,750	23,650	23,840	24,990	25,170	25,200	23,740	23,740
Bituminous coal and lignite		-		•			•	•	•	•
Production	. Thousand Btu/short ton	24,010	23,730	23,200	23,150	22,700	22,430	22,590	23,150	23,150
Imports		25,000	25,000	25.000	25,000	25.000	25,000	25,000	25,000	25,000
Exports		27,000	27,000	27,000	27,000	27,000	27,000	27,000	26,180	26,180
Consumption, average		23,650	23.070	22.800	22.750	22.330	22,140	22,200	22.000	22,000
Electric utility consumption		22,260	21,800	21,660	21,690	21,480	21,280	21,380	21,300	21,300
Non-utility consumption		26,840	26,120	25,810	25,870	25.130	25,070	25,060	25,060	25,060
Coal coke		26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000
Crude petroleum ¹		20,000	20,000		,	,				_0,000
Production	. Thousand Btu/barrel	5,800	5.800	5,800	5,800	5,800	5,800	5.800	5,800	5,800
Imports		5,817	5,827	5,821	5,808	5,810	5,802	5,810	5,812	5,812
Exports		5,800	5.800	5,800	5,800	5,800	5.800	5,800	5,800	5,800
Crude petroleum and products	Triousaria Biar barror	0,000	0,000	0,000	0,000	0,000	0,000	0,000	5,000	0,000
Imports, average	. Thousand Stu/barrel	5.897	5.884	5,858	5,856	5.834	5.839	5.810	5,796	5,796
Exports, average		5.752	5,774	5,748	5,745	5,797	5,808	5.832	5,820	5,820
Petroleum products	Thousand Diarcunor	0,702	0,174	0,140	0,140	0,707	0,000	J,002	3,020	3,020
Consumption, average	. Thousand Btu/barrel	5.515	5,504	5,494	5,504	5.518	5.519	5.494	5,479	5,479
Residential and Commercial		5,313	5,371	5,354	5,383	5,384	5,386	5,281	5,270	5,230
Industrial		5.559	5,531	5.522	5,534	5,546	5,553	5.485	5,443	5,512
Transportation		5,398	5,396	5,395	5,400	5,404	5,412	5,429	5,441	5,429
Electric Utility		6.223	6,215	6,229	6,235	6,231	6,227	6,243	6,249	6.244
Imports		5,983	5,959	5,935	5,980	5,908	5,955	5.811	5,748	5,748
Exports		5,752	5,773	5,747	5,743	5,796	5,814	5.864	5,841	5,841
LPG consumption average ²		3,746	3,730	3,715	3,711	3,677	3,669	3,680	3,674	3,674
Natural gas plant liquid	Thousand Didy barrer	0,740	0,700	0,110	0,711	0,011	0,000	5,000	5,074	3,074
production	Thousand Btu/barrel	4.049	4.011	3,984	3,964	3,941	3,925	3,955	3,914	3,914
Natural gas, dry	Thousand Blarbaner	4,040	4,011	0,004	0,004	0,041	0,023	0,000	0,514	3,314
Production and consumption	Btu/cubic foot	1,021	1,024	1.021	1,020	1,021	1,019	1,021	1.026	1,026
Electric utility consumption		1.024	1.022	1.026	1.023	1.029	1.034	1.034	1,020	1,020
Non-utility consumption		1,020	1,024	1,020	1,023	1,029	1,034	1,034	1,034	1,034
Imports		1,026	1,027	1,026	1,015	1,016	1,010	1,013	1,024	1,024
Exports		1,023	1,016	1,014	1,013	1,013	1,013	1.013	1,022	1,022
Natural gas, wet	Dia/Cabic foot	1,023	1,010	1,014	1,013	1,013	1,013	1,013	1,013	1,013
production	Btu/cubic foot	1.093	1.097	1,095	1.093	1,093	1.088	1,092	1,099	1.099
Hydropower ³		10,389	10,442	10,406	10.373	10,435	10.361	10,353	10,353	10,353
Nuclear powers		10,363	11,161	11,013	11,047	10,435	10,361	10,333	10,353	
Geothermal power ³		21,674	21.674	21,611	21,611	21,611	21,611	21,553	21,629	10,640 21,629
Electricity consumption		3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3.412
Crocurony consumption	DIG! KVVII	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412
Approximate Heat Content of Refined										

Approx	imate	Heat	Content	t of	Refined	
Petro	leum	Produ	ıcts			

Asphalt	6,636
Aviation Gasoline	5,048
Butane	4,326
Butane-propane mixture*	4,130
Distillate fuel oil	5,825
Ethane	3,082
Ethane-propane mixtures	3,308
Isobutane	3,974
Jet fuel-kerosene type	5,670
Jet fuel-naphtha type	5,355
Kerosene	5,670
Lubricants	6,065
Motor gasoline	5,253
Natural gasoline	4,620
Petrochemical feedstocks	
Naphtha 400º	5,248
Other Oils over 400°	5,825
Still gas	6,000
Petroleum coke	6,024
Plant condensate	5.418
*Propane	3,836
Residual fuel oil	6,287
Road oil	6,636
Special naphtha	5,248
Still gas	6,000
Unfinished oils	5,825
Unfractionated stream	5,418
Wax	5,537
Miscellaneous	5,796

Units of Measure

Weight

Thousand Btu/barrel

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

Conversion Factors for Uranium

1 short ton (U₃O₃)	contains	0.769 metric tons of uranium
1 short ton (UF₃)	contains	0.613 metric tons of uranium
1 metric ton (UF₅)	contains	0.676 metric tons of uranium

Includes lease condensate.

LPG consumption average is the annual weighted average of the LPG product supplied components:ethane, ethylene, propane, propylene, butane, butylene, butane-propane mixture, ethane-propane

TPG consumption average is the annual weighted average of the LPG product supplied components:ethane, ethylene, propane, propylene, butane, butane-propane mixture, ethane-propane mixture, and isobutane.

There is no generally accepted practice for measuring hydropower thermal conversion rates. The hydropower factors on this page are the prevailing rate factors at fossil fuel steam electric powerplants. By using the heat rate factor, it is possible to evaluate fossil fuel requirements for replacing hydropower production during periods of drought. Furthermore, it allows for better comparisons with certain other countries such as Norway where hydropower is the principal means for producing electricity. Similarly, the nuclear power and geothermal power conversion factors represent the hermal 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 Bu per kilowatt-hour. It is not possible to determine the hydroelectric powerplant efficiency by using these factors. The efficiency factor for hydroelectric powerplants is derived by multiplying generation efficiency. The average hydroelectric powerplant efficiency in the United States is 86 percent while average generation efficiency is 97 percent and average turbine efficiency is 89 percent.

⁶⁰ percent butane and 40 percent propane.

⁷⁰ percent ethane and 30 percent propane. Preliminary data.

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