DOE/EIA-0035(82/12)

Monthly Energy Review

December 1982

Energy Information Administration U.S. Department of Energy







Fichman

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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:

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

Overview

Production

Energy production during the first 9 months of 1982 totaled 48.4 quadrillion Btu, a 0.6percent* increase compared to the level of production during the same period of 1981. Natural gas production decreased by 7.4 percent. Increases in production occurred for petroleum and coal. Petroleum production was up by 0.5 percent and coal by 6.1 percent. All other forms of energy production combined were up by 10.9 percent.

Consumption

Energy consumption during the first 9 months of 1982 totaled 53.4 quadrillion Btu, a 3.4-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 (6.0 percent), and coal (2.5 percent), accounting for the overall decline in energy consumption during this period. The daily consumption rate of all other forms of energy increased by 10.3 percent.

Imports

Net imports of energy during the first 9 months of 1982 totaled 5.3 quadrillion Btu, 28.8 percent below the level of the first 9 months of 1981. Net imports of petroleum decreased by 23.5 percent, and net imports of electricity and coal coke combined decreased by 4.8 percent. Net exports of coal increased by 7.9 percent. Natural gas net imports increased by 8.8 percent.

Energy Summary (Quadrillion (1015) Btu)

September			Cumulative January through September					
1982	1981	Percent Change	1982	1982 Daily Rate	1981	1981 Daily Rate	Percent Change	
5.061	5.610	-9.8	48.449	0.177	48.176	0.176	+ 0.6	
	1.686	+0.6	15.370	0.056	15.289	0.056	+0.5	
	1.574	-9.5	13.864	0.051	14.977	0.055	-7.4	
	1.892	-23.3	14.386	0.053	13.557	0.050	+6.1	
0.488	0.458	6.7	4.828	0.018	4.354	0.016	+10.9	
5.406	5.661	-4.5	53.350	0.195	55.221	0.202	-3.4	
2.453	2.573	-4.7	22.882	0.084	24.044	0.088	-4.8	
1.188	1.299	-8.5	13.689	0.050	14.561	0.053	-6.0	
1.261	1.314	-4.0	11.791	0.043	12.095	0.044	-2.5	
0.504	0.475	+6.1	4.987	0.018	4.521	0.017	+10.3	
0.647	0.786	-17.7	5.316	0.019	7.469	0.027	-28.8	
			6.632	0.024	8.674	0.032	-23.5	
	0.062		0.672	0.002	0.618	0.002	+8.8	
		(-27.2)	(2.148)	(0.008)	(1.990)	(0.007)	(+7.9)	
0.016	0.018	-8.5	0.159	0.001	0.167	0.001	-4.8	
	1982 5.061 1.697 1.424 1.452 0.488 5.406 2.453 1.188 1.261 0.504 0.647 0.793 0.063 (0.225)	1982 1981 5.061 5.610 1.697 1.686 1.424 1.574 1.452 1.892 0.488 0.458 5.406 5.661 2.453 2.573 1.188 1.299 1.261 1.314 0.504 0.475 0.647 0.786 0.793 1.016 0.063 0.062 (0.225) (0.310)	1982 1981 Change 5.061 5.610 -9.8 1.697 1.686 +0.6 1.424 1.574 -9.5 1.452 1.892 -23.3 0.488 0.458 6.7 5.406 5.661 -4.5 2.453 2.573 -4.7 1.188 1.299 -8.5 1.261 1.314 -4.0 0.504 0.475 +6.1 0.647 0.786 -17.7 0.793 1.016 -22.0 0.063 0.062 +1.6 (0.225) (0.310) (-27.2)	Percent 1982 1981 Change 1982 5.061 5.610 -9.8 48.449 1.697 1.686 +0.6 15.370 1.424 1.574 -9.5 13.864 1.452 1.892 -23.3 14.386 0.488 0.458 6.7 4.828 5.406 5.661 -4.5 53.350 2.453 2.573 -4.7 22.882 1.188 1.299 -8.5 13.689 1.261 1.314 -4.0 11.791 0.504 0.475 +6.1 4.987 0.647 0.786 -17.7 5.316 0.793 1.016 -22.0 6.632 0.063 0.062 +1.6 0.672 (0.225) (0.310) (-27.2) (2.148)	Percent 1982 Daily 1982 Rate 5.061 5.610 -9.8 48.449 0.177 1.697 1.686 +0.6 15.370 0.056 1.424 1.574 -9.5 13.864 0.051 1.452 1.892 -23.3 14.386 0.053 0.488 0.458 6.7 4.828 0.018 5.406 5.661 -4.5 53.350 0.195 2.453 2.573 -4.7 22.882 0.084 1.188 1.299 -8.5 13.689 0.050 1.261 1.314 -4.0 11.791 0.043 0.504 0.475 +6.1 4.987 0.018 0.647 0.786 -17.7 5.316 0.019 0.793 1.016 -22.0 6.632 0.024 0.063 0.062 +1.6 0.672 0.002 (0.225) (0.310) (-27.2) (2.148) (0.008)	Percent Perc	Percent Daily Daily Daily Page 1982 1981 Change 1982 Rate 1981 Rate 5.061 5.610 -9.8 48.449 0.177 48.176 0.176 1.697 1.686 +0.6 15.370 0.056 15.289 0.056 1.424 1.574 -9.5 13.864 0.051 14.977 0.055 1.452 1.892 -23.3 14.386 0.053 13.557 0.050 0.488 0.458 6.7 4.828 0.018 4.354 0.016 5.406 5.661 -4.5 53.350 0.195 55.221 0.202 2.453 2.573 -4.7 22.882 0.084 24.044 0.088 1.188 1.299 -8.5 13.689 0.050 14.561 0.053 1.261 1.314 -4.0 11.791 0.043 12.095 0.044 0.504 0.475 +6.1 4.987 0.018 4.521 0.017 0.647 0.786 -17.7 5.316 0.019 7.469 0.027 0.793 1.016 -22.0 6.632 0.024 8.674 0.032 0.063 0.062 +1.6 0.672 0.002 0.618 0.002 (0.225) (0.310) (-27.2) (2.148) (0.008) (1.990) (0.007)	

¹ Based on daily rates

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

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

Includes hydroelectric, nuclear, and geothermal power and electricity produced from wood and waste.

Includes refined petroleum products and natural gas plant liquids.

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

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

imports of crude oil for the Strategic Petroleum Reserve.
Parentheses indicate exports are greater than imports.

Includes net imports of electricity and coal coke. Note: Totals may not equal sum of components due to independent rounding

Energy Summary¹

		Energy Production ²	Energy Consumption ²	Energy Imports ²	Energy Exports
			Quadrillion	(10 ¹⁵) Btu	
1973	TOTAL	62.433	74.609	14.732	2.073
1974	TOTAL	61.229	72.759	14.417	2.241
1975	TOTAL	60.059	70.707	14.113	2.389
1976	TOTAL	60.091	74.510	16.838	2.213
1977	TOTAL	60.293	76.332	20.092	2.097
1978	TOTAL	61.231	78.175	19.261	1.952
1979	TOTAL	63.851	78.910	19.620	2.900
1980	January	5.668	7.400	1.695	0.227
	February	5.308	6.959	1.473	0.210
	March	5.695	6.845	1.476	0.264
	April	5.458	5.983	1.339	0.287
	May	5.591	5.833	1.281	0.344
	June	5.398	5.690	1.287	0.359
	July	5.242	5.940	1.210	0.323
	August	5.335	5.870	1.203	0.313
	September	5.300	5.790	1.168	0.330
	October	5.492	6.146	1.248	0.370
	November	5.334	6.253	1.227	0.341
	December	5.678	7.202	1.363	0.338
	TOTAL	65.499	75.910	15.971	3.706
1981	January	5.509	7.474	1.346	0.264
	February	5.251	6.342	1.210	0.280
	March	5.749	6.452	1.192	0.372
	April	4.633	5.719	1.083	0.328
	May	4.770	5.774	1.130	0.277
	June	5.257	5.828	1.039	0.249
	July	R5.611	6.036	1.139	0.395
	August	5.788	5.935	1.131	0.423
	September	5.610	5.661	1.201	0.414
	October	5.764	5.983	1.178	0.469
	November	5.488	5.986	1.109	0.443
	December	5.755	6.933	1.172	0.434
	TOTAL	R65.183	74.123	13.929	4.347
1982	January	5.542	7.231	1.073	0.323
	February	5.262	6.297	0.880	0.377
	March	5.859	6.374	0.917	0.443
	April	5.460	5.870	0.847	0.430
	May	5.427	5.446	0.957	0.421
	June	5.365	5.410	1.001	0.414
	July	5.145	_5.680	1.130	0.386
	August	R5.327	R5.636	1.016	0.358
	September	5.061	5.406	1.025	0.378

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.

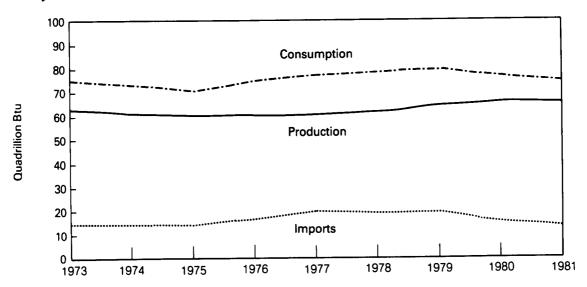
The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation, and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces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

R = Revised data.

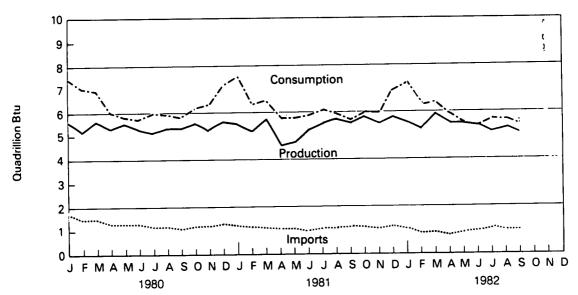
Source: • Energy Information Administration calculations based on data appearing elsewhere in this publication.

Energy Summary

Yearly



Monthly



Production of Energy by Type

		Coal ¹	Crude Oli²	NGPL ³	Natural Gas (Dry)	Hydro- electric Power	Nuclear Electric Power	Other ^s	Total Energy Produced	Yearly Cumulative Energy Produced
					Quadrillion	(1015) Btu				
1973	TOTAL	14.366	19.493	2.569	22.187	2.861	0.910	0.046	62.433	
1974	TOTAL	14.468	18.575	2.471	21.210	3.177	1.272	0.056	61.229	
1975	TOTAL	15.189	17.729	2.374	19.640	3.155	1.900	0.072	60.059	
1976	TOTAL	15.853	17.262	2.327	19.480	2.976	2.111	0.081	60.091	
1977	TOTAL	15.829	17.454	2.327	19.565	2.333	2.702	0.082	60.293	
1978	TOTAL	15.037	18.434	2.245	19.485	2.937	3.024	0.068	61.231	
1979	TOTAL	17.651	18.104	2.286	20.076	2.931	2.715	0.089	63.851	
1980	January	1.611	1.560	0.200	1.814	0.265	0.210	0.008	5.668	5.668
	February	1.517	1.464	0.188	1.702	0.224	0.205	0.008	5.308	10.976
	March	1.643	1.564	0.190	1.822	0.255	0.213	0.008	5.695	16.671
	April	1.613	1.511	0.191	1.664	0.270	0.200	0.008	5.458	22.129
	May	1.645	1.553	0.196	1.690	0.302	0.196	0.010	5.591	27.719
	June	1.652	1.488	0.183	1.581	0.290	0.195	0.009	5.398	33.118
	July	1.419	1.537	0.185	1.612	0.256	0.224	0.010	5.242	38.360
	August	1.584	1.513	0.184	1.571	0.214	0.259	0.011	5.335	43.695
	September October	1.593	1.500	0.178	1.575	0.194	0.251	0.010	5.300	48.995
	November	1.674	1.534	0.184	1.642	0.187	0.261	0.011	5.492	54.488
	December	1.589	1.478	0.184	1.647	0.201	0.223	0.011	5.334	59.822
		1.670	1.547	0.189	1.792	0.233	0.235	0.011	5.678	65.499
4004	TOTAL	19.209	18.249	2.254	20.112	2.890	2.672	0.114	65.499	
1981	January	1.526	1.535	0.200	1.748	0.234	0.253	0.011	5.509	5.509
	February	1.642	1.397	0.181	1.570	0.221	0.230	0.010	5.251	10.760
	March	1.812	1.549	0.197	1.730	0.216	0.234	0.011	5.749	16.509
	April	0.839	1.489	0.188	1.669	0.218	0.220	0.010	4.633	21.142
	May June	0.882	1.529	0.193	1.693	0.253	0.210	0.010	4.770	25.911
	July	1.425	1.501	0.187	1.631	0.276	0.225	0.010	5.257	31.168
	August	1.715 1.824	1.528	0.188	R1.660	0.263	0.246	0.011	R5.611	R36.779
	September	1.892	1.543 1.497	0.196	1.701	0.226	0.287	0.011	5.788	R42.567
	October	1.973	1.540	0.189	1.574	0.187	0.260	0.011	5.610	R48.176
	November	1.773	1.494	0.194 0.191	1.637	0.189	0.219	0.011	5.764	R53.940
	December	1.768	1.544	0.191	1.579	0.199	0.242	0.010	5.488	R59.428
	TOTAL	19.071	18.146	2.298	1.714 R19.907	0.250 2.732	0.277 2.901	0.010 0.127	5.755 R65.183	R65.183
1982	January	1.530	1.559	0.188						
	February	1.621	1.359	0.188 0.167	1.702	0.282	0.273	0.009	5.542	5.542
	March	1.914	1.546	0.167 0.191	1.562	0.279	0.215	0.008	5.262	10.804
	April	1.683	1.505	0.191	1.648	0.312	0.242	0.007	5.859	16.663
	May	1.627	1.557	0.186	1.554	0.292	0.232	0.007	5.460	22.123
	June	1.640	1.510	0.164	1.527 1.479	0.294	0.230	0.008	5.427	27.550
	July	1.338	1.555	0.177	1.479	0.293	0.256	0.010	5.365	32.915
	August	1.583	1.564	0.187	R1.468	0.287 0.250	0.271	0.010	5.145	38.061
	September	1.452	1.520	0.178	1.424	0.250	0.264 0.270	0.010 0.010	R5.327 5.061	R43.388 48.449

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.

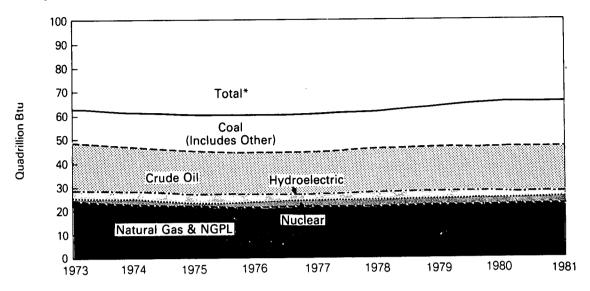
Includes geothermal power and electricity produced from wood and waste.

R = Revised data.

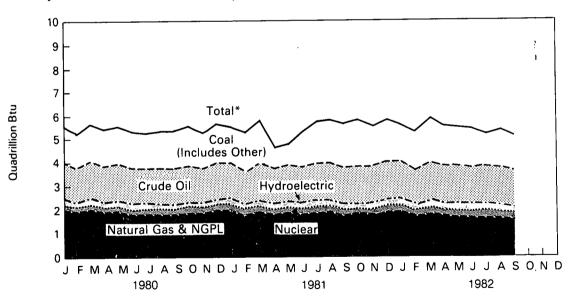
Source: • Energy Information Administration calculations based on data reported elsewhere in this publication.

Production of Energy by Type

Yearly



Monthly



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

Consumption of Energy by Type

		Coal ¹	Natural Gas (Dry)	Petro- leum	Hydro- electric Power ²	Nuclear Electric Power	Net Imports of Coal Coke ³	Other•	Total Energy Con- sumed	Yearly Cumulative Energy Consumed
					Quadrillion	1 (1015) Btu				
1973	TOTAL	13.300	22.512	34.840	3.010	0.910	(0.008)	0.046	74.609	
1974	TOTAL	12.876	21.732	33.455	3.309	1.272	0.059	0.056	72.759	
1975	TOTAL	12.823	19.948	32.731	3.219	1.900	0.014	0.072	70.707	
1976	TOTAL	13.733	20.345	35.175	3.066	2.111	0.000	0.081	74.510	
1977	TOTAL	13.964	19.931	37.122	2.515	2.702	0.015	0.082	76.332	
1978	TOTAL	13.846	20.000	37.965	3.141	3.024	0.131	0.068	78.175	
1979	TOTAL	15.109	20.666	37.123	3.141	2.715	0.066	0.089	78.910	
1980	January	1.397	2.296	3.202	0.283	0.210	0.003	0.008	7.400	7,400
	February	1.313	2.203	2.990	0.241	0.205	(0.001)	0.008	6.959	7.400 14.359
	March .	1.295	2.107	2.951	0.273	0.213	(0.003)	0.008	6.845	21.204
	April	1.158	1.575	2.759	0.287	0.200	(0.005)	0.008	5.983	27.186
	May	1.162	1.392	2.758	0.321	0.196	(0.006)	0.010	5.833	33.020
	June	1.234	1.288	2.661	0.307	0.195	(0.004)	0.009	5.690	38.710
	July	1.389	1.329	2.719	0.275	0.224	(0.004)	0.010	5.940	44.650
	August	1.381	1.315	2.676	0.232	0.259	(0.003)	0.011	5.870	50.520
	September	1.261	1.333	2.728	0.211	0.251	(0.004)	0.010	5.790	56.310
	October	1.227	1.562	2.887	0.205	0.261	(0.006)	0.011	6.146	62.456
	November	1.250	1.807	2.745	0.219	0.223	(0.002)	0.011	6.253	68.708
	December	1.394	2.184	3.127	0.252	0.235	(0.001)	0.011	7.202	75.910
	TOTAL	15.461	20.391	34.202	3.107	2.672	(0.037)	0.114	75.910	75.510
1981	January	1.487	2.338	3.130	0.255	0.253	0.000	0.011	7.474	7.474
	February	1.314	1.943	2.606	0.239	0.230	(0.001)	0.010	6.342	13.816
	March	1.322	1.949	2.702	0.236	0.234	(0.003)	0.011	6.452	20.267
	April	1.202	1.528	2.523	0.237	0.220	(0.001)	0.010	5.719	25.986
	May	1.211	1.463	2.608	0.273	0.210	0.000	0.010	5.774	31.761
	June	1.313	1.343	2.645	0.296	0.225	(0.004)	0.010	5.828	37.589
	July	1.483	1.349	2.664	0.283	0.246	0.000	0.011	6.036	43.625
	August	1.450	1.348	2.592	0.246	0.287	0.000	0.011	5.935	49.560
	September	1.314	1.299	2.573	0.206	0.260	(0.002)	0.011	5.661	55.221
	October	1.302	1.557	2.687	0.210	0.219	(0.003)	0.011	5.983	61.204
	November	1.291	1.661	2.563	0.218	0.242	0.000	0.010	5.986	67.190
	December	1.430	2.131	2.819	0.270	0.277	(0.003)	0.010	6.933	74.123
4000	TOTAL	16.118	19.911	32.113	2.970	2.901	(0.017)	0.127	74.123	, <u>25</u>
1982	January	1.522	2.428	2.699	0.302	0.273	0.000	0.009	7.231	7.231
	February	1.315	2.018	2.446	0.297	0.215	(0.001)	0.008	6.297	13.528
	March	1.281	1.870	2.643	0.332	0.242	(0.002)	0.007	6.374	19.902
	April	1.172	1.510	2.638	0.312	0.232	(0.001)	0.007	5.870	25.772
	May	1.206	1.169	2.521	0.314	0.230	(0.003)	0.008	5.446	31.218
	June	1.231	1.150	2.454	0.313	0.256	(0.004)	0.010	5.410	36.628
	July	1.414	1.173	2.509	0.307	0.271	(0.003)	0.010	5.680	42.308
	August September	1.390	R1.183	2.520	0.270	0.264	(0.001)	0.010	R5.636	R47.944
	Sebramber	1.261	1.188	2.453	0.228	0.270	(0.003)	0.010	5.406	53.350

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.

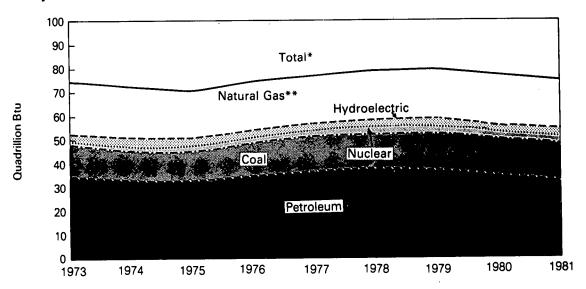
Includes geothermal power and electricity produced from wood and waste.

R = Revised data.

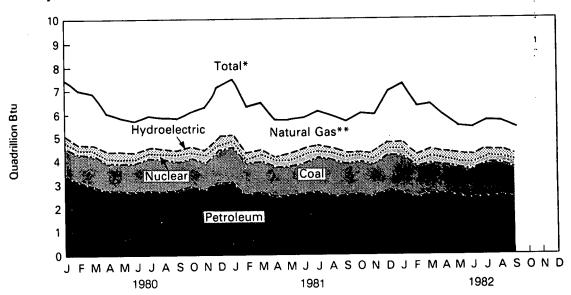
Source: •Energy Information Administration calculations based on data reported elsewhere in this publication.

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	Natural Gas (Dry)	Electri- city	Coal Coke	Net Imports	Yearly Cumulative Net Imports of Energy
				Qua	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		4 400
	February	(0.101)	0.958	0.284	0.105	0.017	(0.003	1.468 1.262	1.468
	March	(0.145)	0.967	0.269	0.106	0.017	(0.001)	1.202	2.731
	April	(0.196)	0.943	0.218	0.076	0.018	(0.005)	1.053	3.943 4.995
	May	(0.220)	0.861	0.214	0.069	0.018	(0.005)	0.937	
	June	(0.230)	0.892	0.193	0.059	0.018	(0.004)	0.928	5.933 6.861
	July	(0.215)	0.830	0.199	0.059	0.018	(0.004)	0.887	7.748
	August	(0.238)	0.851	0.204	0.058	0.018	(0.003)	0.890	8.638
	September	(0.219)	0.765	0.223	0.056	0.018	(0.004)	0.839	9.477
	October	(0.244)	0.803	0.235	0.072	0.018	(0.006)	0.878	10.355
	November	(0.235)	0.766	0.252	0.087	0.018	(0.002)	0.885	11.240
	December	(0.214)	0.854	0.272	0.095	0.018	(0.001)	1.025	12.265
	TOTAL	(2.371)	10.586	2.912	0.957	0.217	(0.037)	12.265	12.203
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	2.63 <i>2</i> 3.587
	May	(0.157)	0.716	0.214	0.059	0.020	0.000	0.753	4.440
	June	(0.158)	0.687	0.185	0.061	0.020	(0.004)	0.791	5.231
	July	(0.281)	0.728	0.214	0.062	0.020	0.000	0.744	5.975
	August	(0.292)	0.716	0.203	0.060	0.020	0.000	0.708	6.683
	September	(0.310)	0.793	0.223	0.062	0.020	(0.002)	0.786	7.469
	October	(0.321)	0.749	0.189	0.076	0.020	(0.003)	0.709	8.179
	November	(0.308)	0.657	0.218	0.079	0.020	0.000	0.666	8.844
	December	(0.299)	0.711	0.220	0.090	0.020	(0.003)	0.738	9.583
	TOTAL	(2.918)	8.844	2.573	0.862	0.238	(0.017)	9.583	0.000
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	(0.283)	0.460	0.147	0.075	0.020	(0.001)	0.417	2.144
	May	(0.262)	0.550	0.164	0.066	0.020	(0.003)	0.536	2.680
	June	(0.279)	0.643	0.142	0.064	0.020	(0.004)	0.586	3.267
	July	(0.239)	0.724	0.178	0.063	0.020	(0.003)	0.743	4.010
	August	(0.193)	0.634	0.138	0.061	0.020	(0.001)	0.659	4.669
	September	(0.225)	0.596	0.197	0.063	0.020	(0.003)	0.647	5.316

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.

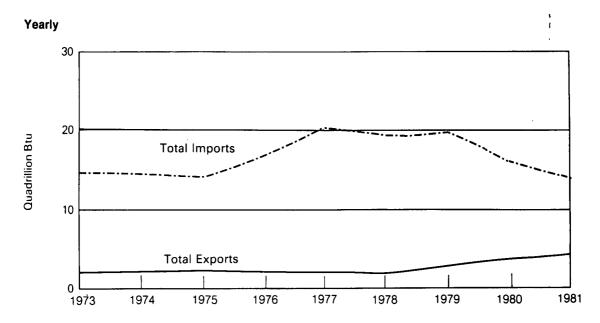
Includes bituminous coal, lignite, and anthracite.

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

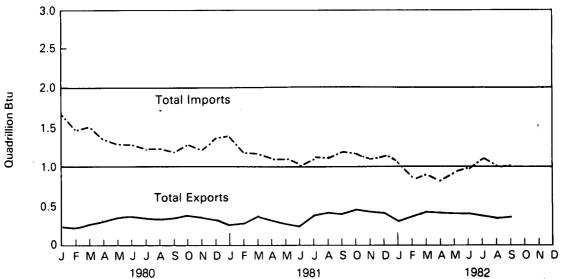
Includes refined petroleum products, unfinished oils, natural gasoline, and plant condensate.

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

Energy Imports and Exports



Monthly 3.0



Merchandise Trade Value

		Exports				Imports			Trade Balance		
		Energy	All Other	Total	Energy	Ail Other	Total	Energy	All Other	Total	
					ı	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	•	•	•	
1977	TOTAL	4,184	116,966	121,150	44,537	•	•	-29,770	+23,911	-5,859	
1978	TOTAL	3,881	139,696	143,577	•	103,148	147,685	-40,353	+ 13,818	-26,535	
		•	•	•	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 December	997	18,156	19,153	6,608	15,900	22,508	-5,611	+2,255	-3,356	
		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	
	October	1,055	15,643	16,698	6,145	14,951	21,096	-5,090	+692	-4,398	

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

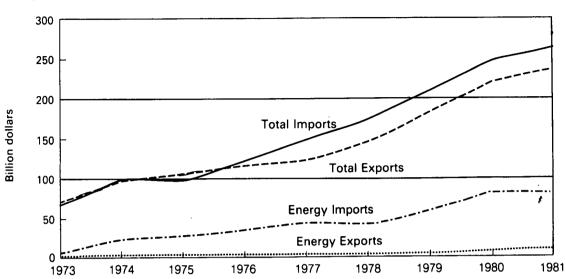
Note: The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S.

Customs territory which includes the 50 United States, the District of Columbia, and Puerto Rico. See Note at the end of this section.

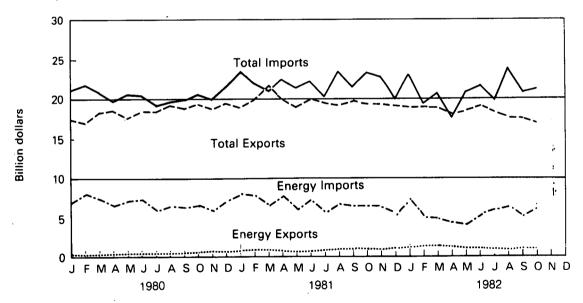
Notes and Sources: • See the last page of this section.

Merchandise Trade Value





Monthly



Executive Summary Heating Degree-Days¹

Petroleum Cumulative Administration July 1 through November 28 For Defense (PAD) **Districts** 1982 1981² Normal (1941-70)² **PAD District I** 800 928 (-13.9)823 (-2.9)New England 1,172 1,324 (-11.5)1,211 (-3.2)Conn., Maine, Mass., N.H., R.I., Vt. Middle Atlantic 892 1,047 (-14.8)913 (-2.3)Del., Md., N.J., N.Y., Pa. Lower Atlantic 516 590 (-12.6)539 (-4.3)Fla., Ga., N.C., S.C., Va., W.Va. PAD District II 1,090 1,103 (-1.2)1,077 (1.2) III., Ind., Iowa, Kans., Ky., Mich., Minn., Mo., Nebr., N.Dak., Ohio, Okla., S.Dak., Tenn., Wisc. **PAD District III** 356 292 (22.2)327 (9.0)Ala., Ark., La., Miss., N.Mex., Tex. PAD District IV 1,517 -1,136 (33.5)1,341 (13.1)Colo., Idaho, Mont., Utah., Wyo. **PAD District V** 522 474 (10.0)578 (-9.8)Ariz., Calif., Nev., Ore., Wash. U.S. AVERAGE 715 733 (-2.5)719 (-0.6)

Beginning with this issue, degree-days will be calculated using updated population weights based on July 1, 1981, estimated resident state population data prepared by the U.S. Department of Commerce, Bureau of Census.

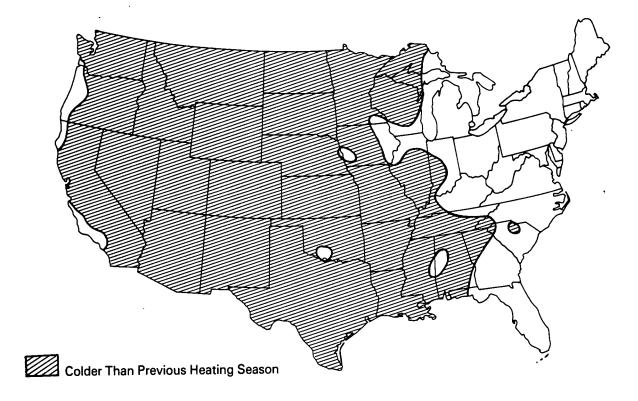
¹ See Note on the last page of this section for explanation of degree-days.

² Percentage change in parentheses.

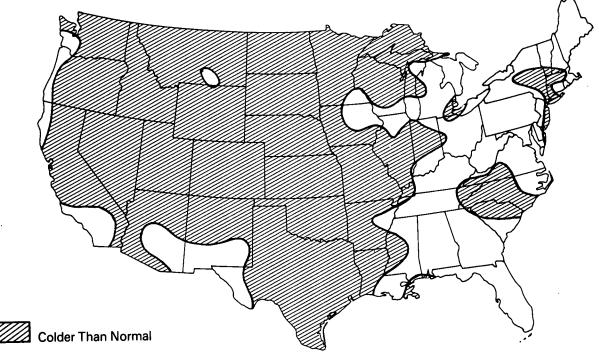
³ Excludes Alaska and Hawaii.

Heating Degree-Days Accumulated from July 1, 1982, through November 28, 1982

Departure from Previous Heating Season



Departure from Normal

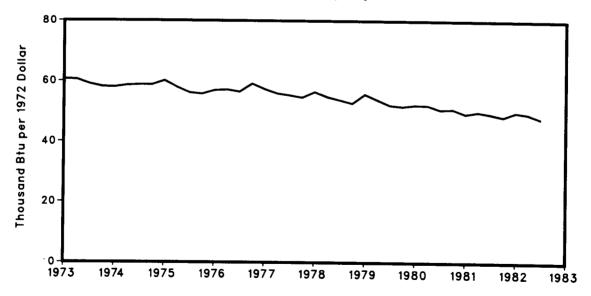


Source: • Department of Commerce—National Oceanic and Atmospheric Administration.

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

	-1 \$	Annual Rate of Energy	Gross Natio	onal Product 1972	Energy Consumption		
		Consumption	Dollars	Dollars ¹	per GNP Dollar		
		Quadrillion Btu	Trillion	Dollars	Thousand Btu per 1972 Dollar		
1973		74.609	1.326	1.254	59.5		
1974		72.759	1.434	1.246	58.4		
1975		70.707	1.549	1.232	57.4		
1976		74.510	1.718	1.298	57.4		
1977		76.332	1.918	1.370	55.7		
1978		78.175	2.164	1.439	54.3		
1979		78.910	2.418	1.479	53.4		
1980		75.913	2.633	1.474	51.5		
1981	1st Qtra 2nd Qtra 3rd Qtra 4th Qtra YEAR	R74.419 R75.034 R74.412 R72.159 73.965	2.865 2.902 2.981 3.003 2.938	1.508 1.502 1.510 1.490 1.503	R49.3 R50.0 R49.3 R48.4 49.2		
1982	1st Qtr ² 2nd Qtr ² 3rd Qtr ²	R73.406 R72.872 70.651	2.996 3.045 3.081	1.471 1.478 1.478	49.2 R49.9 R49.3 47.8		

Energy Consumption per GNP Dollar (Seasonally Adjusted)



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

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

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

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

R = Revised data.

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

3rd Qtr

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

U.S. Petroleum Products Supplied Net Imports² **Domestic** from from **Petroleum** from from from from Arab OPEC3 All OPEC All **Products** All OPEC All Arab OPEC³ Countries Countries Countries Supplied Countries Countries Countries Percent Thousand Barrels per Day **ANNUAL RATE** 17.3 34.8 5.3 17,308 6,025 2,991 **AVERAGE** 915 1973 35.4 19.7 4.5 16,653 5,891 3,277 751 1974 **AVERAGE** 8.5 22.0 35.8 5,847 16,322 3.598 1,382 1975 **AVERAGE** 29.0 40.6 17,461 13.9 7,090 5,063 2,423 1976 **AVERAGE** 46.5 17.3 33.6 18,431 8,564 6,190 3,184 **AVERAGE** 1977 42.5 30.5 18,847 15.7 8,001 5,747 2,962 1978 **AVERAGE** 30.4 43.1 18,513 16.5 7.985 5,632 3,054 **AVERAGE** 1979 25.2 37.3 17,056 14.9 6,365 2,549 4,293 **AVERAGE** 1980 12.0 34.9 22.2 5,964 17,113 3,804 2,060 1981 1st Qtr 32.7 11.5 20.0 15.597 1,786 3,117 5,099 2nd Qtr 20.5 34.8 12.0 5,400 15,532 3,181 1,857 3rd Qtr 19.8 32.2 10.5 16,008 3,167 5,151 1,679 4th Qtr 20.6 33.6 16,058 11.5 AVERAGE 1,845 3,315 5,401 25.1 15,792 6.9 15.0 3,959 2.361 1982 1st Qtr 1,094 26.2 15,270 5.2 12.4 4,002 1,894 799 2nd Qtr 31.2 14.8 5.4

4,630

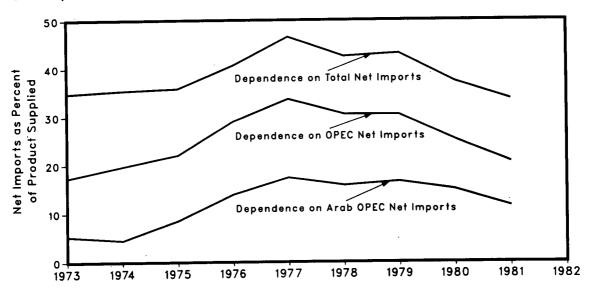
14,842

Net Imports as Percent of

U.S. Dependence on Petroleum Net Imports

797

2,197



Geographic coverage: the 50 United States and the District of Columbia.
Beginning in October 1977, Strategic Petroleum Reserves are included.

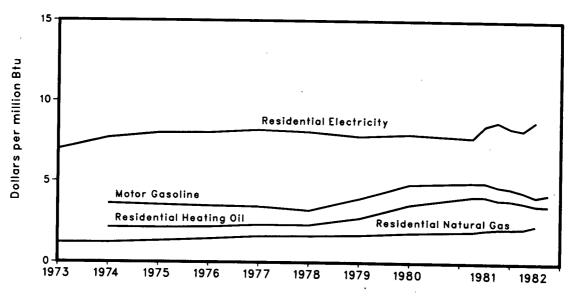
^{*}Net imports equals imports minus exports. Imports from OPEC countries exclude indirect imports which are refined products imported primarily from Caribbean and West European areas and refined from crude oil produced in OPEC countries.
*Includes Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and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

Includes Arab OPEC countries plus Ecuador, Gabon, Indonesia, Iran, Nigeria, and Venezuela. Sources: See last page of this section.

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

		Leaded Regular Motor Gasoline		Residential Heating Oil		Residential Natural Gas		Residential Electricity	
		cent/gal	\$/MMBtu	cent/gal	\$/MMBtu	cent/Mcf	\$/MMBtu	cent/kWh	\$/MMBtu
1973	AVERAGE	NA	NA	NA	NA	121.2	1.19	2.39	7.00
1974	AVERAGE	45.1	3.61	29.4	2.12	121.4	1.19	2.63	7.71
1975	AVERAGE	44.1	3.53	29.3	2.11	132.8	1.30	2.73	8.00
1976	AVERAGE	43.4	3.47	29.8	2.15	145.4	1.43	2.73	
1977	AVERAGE	42.9	3.43	31.8	2.29	162.2	1.59		8.03
1978	AVERAGE	40.1	3.21	31.7	2.29	164.4	1.62	2.80	8.21
1979	AVERAGE	49.4	3.95	37.8	2.73	171.5	1.68	2.76	8.09
1980	AVERAGE	60.5	4.84	49.7	3.58	186.9		2.67	7.83
1981	1st Qtr	62.1	4.97	57.0			1.83	2.72	7.97
	2nd Qtr	62.1	4.97		4.11	197.5	1.93	2.65	7.77
	3rd Qtr	59.3		57.2	4.12	209.1	2.04	2.91	8.53
	4th Qtr		4.74	54.4	3.92	215.0	2.10	2.99	8.76
		57.9	4.63	54.0	3.89	216.3	2.11	2.87	8.41
	AVERAGE	60.4	4.83	55.7	4.01	209.7	2.05	2.85	8.35
1982	1st Qtr	55.4	4.43	52.2	3.76	R218.3	2.13	0.00	
	2nd Qtr	51.7	4.13	49.8	3.59	R239.0		2.82	8.26
	3rd Qtr	53.5	4.28	49.4	3.56	NA	2.33 NA	3.01 NA	8.82 NA

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



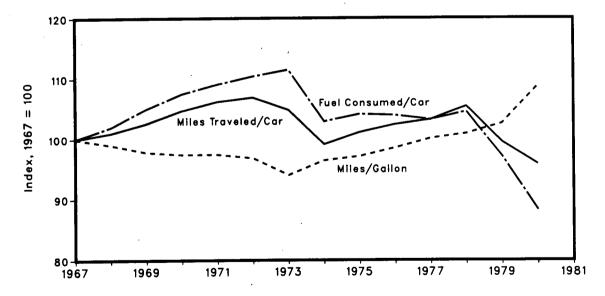
Geographic coverage: the 50 United States and District of Columbia. R=Revised data. NA=Not available.

Sources: • See the last page of this section.

Energy Indicator—U.S. Passenger Car Efficiency

	Average Fuel Consumed per Car			e 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

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

There are two degree-day data bases maintained by the National Oceanic and Atmospheric Administration. Weekly degree-day information is based on mean daily temperatures recorded at about 200 major weather stations around the country. Monthly data are based on readings at more than 8,000 weather stations. The temperature information recorded at these weather stations is used to calculate statewide degree-day averages based on population. The State figures are then accreaged into

data are based on readings at more than 5,000 weather stations. The temperature miorination 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

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.

U.S. Dependence on Petroleum Net Imports: • Imports and products supplied—Part 3 of this publication.
• Exports—1973 through 1976: Bureau of Mines, Mineral Industry Surveys; 1977 through 1981: Energy Information Administration (EIA), Energy Data Reports, "Petroleum Statement, Annual;" 1982 forward: EIA, Petroleum Statement, Monthly.

• 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," Table VM-1.

Energy Consumption

Total U.S. energy consumption in September 1982 dropped to 5.4 quadrillion Btu, 4.5 percent below the September 1981 level.

The residential and commercial sector consumption was 1.8 quadrillion Btu in September 1982, 3.6 percent higher than in September 1981. The residential and commercial sector accounted for 33.2 percent of total consumption in September 1982, up from the sector's 30.6-percent share in September 1981.

The industrial sector consumption was 2.1 quadrillion Btu in September 1982, down 11.7 percent from the consumption level in September 1981. The industrial sector consumed 38.8 percent of the September 1982 total, down from the sector's 42.0-percent share in September 1982.

The transportation sector consumption was 1.5 quadrillion Btu in September 1982, down 2.9 percent from the consumption level in September 1981. This sector consumed 27.9 percent of the September 1982 total, as compared to the sector's 27.4-percent share in September 1981.

The electric utilities consumption was an estimated 2.0 quadrillion Btu of energy in September 1982, 1.8 percent lower than in September 1981. Coal contributed 52.3 percent of the energy consumed by electric utilities in September 1982, while natural gas contributed 15.4 percent; nuclear power, 13.7 percent; hydroelectric power, 11.5 percent; petroleum, 6.7 percent; and geothermal and wood and waste, 0.5 percent.

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

Primary Energy Source	Residential and Commercial	Industrial	Transportation	Electric Utilities	TOTAL
Coal	0.012	0.211	0.000	1.031	1.261
Natural Gas (dry)	0.248	0.599	0.039	0.303	1.188
Petroleum	0.229	0.627	1.464	0.132	2.453
Hydroelectric	0.000	0.002	0.000	0.226	0.228
Nuclear	0.000	0.000	0.000	0.270	0.270
Net Coke Imports	0.000	(0.003)	0.000	0.000	(0.003)
Other	0.000	0.000	0.000	0.010	0.010
TOTAL PRIMARY ENERGY	0.489	1.436	1.503	1.971	5.406
Electricity Sales	0.403	0.205	0.001	(0.608)	
Net Energy Consumption	0.892	1.640	1.504		4.043
Electrical Energy Losses	0.902	0.459	0.002	(1.363)	1.363
TOTAL ENERGY CONSUMED	1.794	2.099	1.507		5.406

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.

Part 2

Consumption

Consumption of Energy by End-Use Sector

		Residential and Commercial	Industrial	Transportation	Total Energy Consumed
			Quadrillion	ı (10 ¹⁵) Btu	
1973	TOTAL	24.197	31.886	18.520	74.609
1974	TOTAL	23.774	30.943	18.035	72.759
1975	TOTAL	23.920	28.608	18,177	70,707
1976	TOTAL	25.004	30.435	19.064	74.510
1977	TOTAL	25.405	31.186	19.736	76.332
1978	TOTAL	25.990	31.570	20.614	78.175
1979	TOTAL	26.073	32.399	20.434	78.910
1980	January	2.812	2.844	4.747	
•	February	2.758	2.5 28	1.747	7.400
	March	2.570	2.526 2.584	1.674	6.959
	April	2.028	2.332	1.694	6.845
	May	1.761	2.332 2.460	1.630	5.983
	June	1.759		1.618	5.833
	July	1.965	2.371	1.560	5.690
	August	1.943	2.343	1.624	5.940
	September	1.843	2.332	1.588	5.870
	October		2.415	1.562	5.790
	November	1.806	2.677	1.663	6.146
	December	2.024	2.670	1.559	6.253
		2.636	2.804	1.761	7.202
4004	TOTAL	25.869	30.360	19.680	75.910
1981	January	3.080	2.609	1.783	7.474
	February	2.644	2.184	1.514	6.342
	March	2.386	2.449	1.616	6.452
	April	1.913	2.265	1.544	
	May	1.779	2.425	1.569	5.719 5.774
	June	1.821	2.386	1.616	
	July	1.964	2.436	1.632	5.828
	August	1.914	2.431	1.587	6.036
	September	R1.732	R2.378	1.557 R1.552	5.935
	October	1.809	2.567	1.607	5.661
	November	1.987	2.461	1.539	5.983
	December	2.606	2.627	1.697	5.986
	TOTAL	R25.635	R29.217	19.257	6.933 74.123
1982	January	3.204	2.420	4 604	
	February	2.812	2.420	1.601	7.231
	March	2.506		1.460	6.297
	April	2.163	2.230	1.634	6.374
	May	1.793	2.078	1.627	5.870
	June	1.766	2.080	1.569	5.446
	July	1.957	2.096	1.541	5.410
	August	R1.940	2.156 Bo 100	1.557	5.680
	September	1.794	R2.138	R1.547	R5.636
	201.0111001	1.734	2.099	1.507	5.406

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

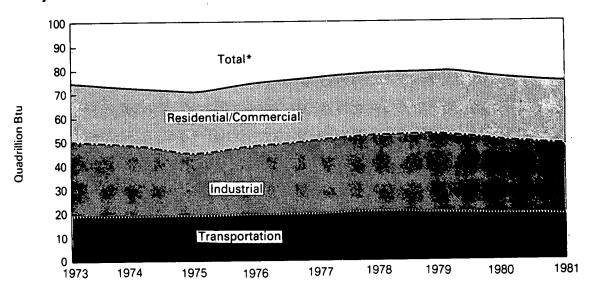
Totals may not equal sum of components due to independent rounding and the use of preliminary conversion factors after 1980.

R = Revised data.

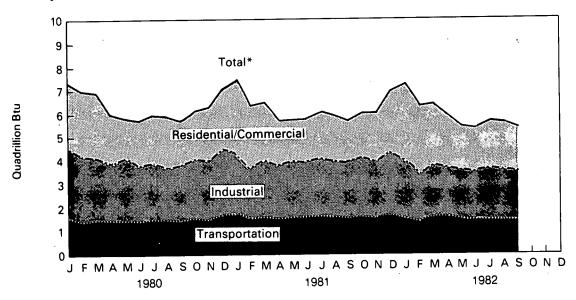
Notes and Sources: • See the last two pages of this section.

Consumption of Energy by End-Use Sector

Yearly



Monthly



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

Consumption of Energy by the Residential and Commercial Sector

		Coal	Natural Gas (Dry)	Petroleum	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Yearly Cumulative Energy Consumed
					Quadrillion (10)¹⁵) Btu		
1973	TOTAL	0.291	7.626	4.321	3.495	8.464	24.197	
1974	TOTAL	0.292	7.518	3.932	3.475	8.558	23.774	
1975	TOTAL	0.238	7.581	3.760	3.604	8.736	23.920	
1976	TOTAL	0.227	7.866	4.160	3.747	9.005	25.004	
1977	TOTAL	0.225	7.461	4.148	3.955	9.615	25.405	•
1978	TOTAL	0.239	7.624	4.062	4.116	9.950	25.990	
1979	TOTAL	0.210	7.891	3.687	4.184	10.101	26.073	
1980	January	0.021	1.104	0.358	0.381	0.947	2.812	2.812
	February	0.019	1.182	0.329	0.375	0.853	2.758	
	March	0.013	1.041	0.300	0.358	0.857		5.569
	April	0.014	0.707	0.245	0.319	0.742	2.570	8.139
	May	0.009	0.444	0.238	0.298	· · · -	2.028	10.167
	June	0.007	0.322	0.224	0.334	0.772	1.761	11.927
	July	0.008	0.254	0.225		0.872	1.759	13.686
	August	0.008	0.236	0.223	0.410	1.068	1.965	15.652
	September	0.011	0.230		0.439	1.039	1.943	17.594
	October	0.011		0.246	0.410	0.895	1.809	19.403
	November	0.014	0.362	0.279	0.343	0.808	1.806	21,209
			0.631	0.271	0.322	0.785	2.024	23.233
	December	0.020	1.010	0.343	0.364	0.899	2.636	25.869
	TOTAL ,	0.160	7.539	3.280	4.355	10.536	25.869	20.000
1981	January	0.022	1.267	0.374	0.425	0.992	3.080	0.000
	February	0.018	1.121	0.287	0.391	0.828		3.080
	March	0.012	0.910	0.271	0.355	0.839	2.644	5.724
	April :	0.014	0.590	0.229	0.325		2.386	8.110
	May	0.012	0.421	0.227	0.323	0.755	1.913	10.023
	June "	0.007	0.291	0.228	0.365	0.798	1.779	11.802
	July	0.011	0.241	0.227	0.429	0.929	1.821	13.623
	August	0.011	0.236	0.223	-	1.056	1.964	15.587
	September	0.014	0.246	0.233	0.430	1.013	1.914	17.500
	October	0.015	0.389	0.264	R0.392	R0.847	R1.732	R19.233
	November	0.021	0.583		0.339	0.802	1.809	R21.042
	December	0.026	0.941	0.259	0.327	0.798	1.987	R23.029
	TOTAL			0.300	0.368	0.970	2.606	R25.635
1982	_	0.183	7.235	3.122	R4.466	R10.629	R25.635	
1502	January	0.024	1.357	0.318	0.439	1.065	3.204	3.204
	February	0.017	1.234	0.271	0.408	0.882	2.812	6.016
	March	0.013	0.954	0.266	0.372	0.900	2.506	8.522
	April	0.017	0.715	0.263	0.346	0.822	2.163	10.685
	May	0.011	0.385	0.231	0.327	0.839	1.793	12.478
	June	0.009	0.284	0.217	0.357	0.900	1.766	
	July	0.009	0.250	0.212	0.412	1.074	1.957	14.244
	August	0.009	0.239	0.215	0.430	1.047		16.201
	September	0.012	0.248	0.229	0.403		R1.940	18.141
					0.700	0.902	1.794	19.934

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

	•									Yearly
		Coal	Natural Gas (Dry)	Petro- leum	Hydro- electric	Net Coke Imports	Electricity Sales	Electrical Energy Losses	Total Energy Consumed	Cumulative Energy Consumed
					Q	uadrillion (10)15) Btu			
1973	TOTAL	4.349	10.388	9.103	0.035	(0.008)	2.341	5.679	31.886	
1974	TOTAL	4.048	10.003	8.707	0.033	0.059	2.337	5.756	30.943	
1975	TOTAL	3.797	8.532	8.192	0.032	0.014	2.346	5.694	28.608	
1976	TOTAL	3.786	8.761	9.092	0.033	0.000	2.573	6.189	30.435	
1977	TOTAL	3.498	8.636	9.789	0.033	0.015	2.682	6.533	31.186	
1978	TOTAL	3.372	8.539	10.046	0.032	0.131	2.761	6.691	31.570	
1979	TOTAL	3.636	8.549	10.294	0.034	0.066	2.873	6.948	32.399	
1980	January	0.308	0.832	0.895	0.003	0.003	0.230	0.572	2.844	2.844
	February	0.286	0.677	0.798	0.003	(0.001)	0.234	0.532	2.528	5.372
	March	0.291	0.704	0.790	0.003	(0.003)	0.236	0.564	2.584	7.956
	April	0.285	0.552	0.726	0.003	(0.005)	0.232	0.539	2.332	10.287
	May	0.276	0.612	0.750	0.003	(0.006)	0.229	0.594	2.460	12.747
	June	0.250	0.578	0.721	0.003	(0.004)	0.228	0.595	2.371	15.118
	July	0.229	0.600	0.710	0.003	(0.004)	0.224	0.583	2.343	17.461
	August	0.231	0.620	0.708	0.002	(0.003)	0.230	0.544	2.332	19.794
	September	0.225	0.676	0.762	0.002	(0.004)	0.237	0.517	2.415	22.208
	October	0.253	0.837	0.796	0.002	(0.006)	0.237	0.558	2.677	24.886
	November	0.263	0.853	0.761	0.002	(0.002)	0.231	0.563	2.670	27.556
	December	0.286	0.853	0.854	0.002	(0.001)	0.234	0.577	2!804	30.360
	TOTAL	3.181	8.394	9.272	0.033	(0.037)	2.781	6.736	30.360	
1981	January	0.301	0.753	0.790	0.003	0.000	0.229	0.534	2.609	2.609
1001	February	0.278	0.524	0.662	0.003	(0.001)	0.230	0.488	2.184	4.793
	March	0.280	0.691	0.690	0.003	(0.003)	0.234	0.554	2.449	7.242
	April	0,261	0.589	0.640	0.003	(0.001)	0.232	0.541	2.265	9.507
	May	0.239	0.667	0.698	0.003	`0.000	0.234	0.582	2.425	11.932
	June	0.233	0.616	0.671	0.003	(0.004)	0.244	0.623	2.386	14.318
	July	0.271	0.640	0.674	0.003	0.000	0.245	0.602	2.436	16.754
	August	0.274	0.667	0.662	0.002	0.000	0.246	0.578	2.431	19.184
	September	0.267	0.675	0.670	0.002	(0.002)	0.242	R0.523	R2.378	R21.562
	October	0.269	0.805	0.699	0.002	(0.003)	0.236	0.559	2.567	R24.130
	November	0.271	0.755	0.655	0.002	0.000	0.226	0.552	2.461	R26.591
	December	0.272	0.870	0.691	0.002	(0.003)	0.219	0.576	2.627	R29.217
	TOTAL	3.217	8.252	8.203	0.033	(0.017)	2.817	R6.712	R29.217	
1982	January	0.274	0.743	0.666	0.003	0.000	0.215	0.520	2.420	2.420
	February	0.255	0.488	0.599	0.003	(0.001)	0.214	0.463	2.021	4.442
	March	0.246	0.598	0.633	0.003	(0.002)	0.220	0.532	2.230	6.672
	April	0.228	0.490	0.635	0.003	(0.001)	0.214	0.508	2.078	8.750
	May	0.220	0.478	0.621	0.003	(0.003)	0.213	0.547	2.080	10.830
	June	0.205	0.524	0.604	0.003	(0.004)	0.217	0.547	2.096	12.926
	July	0.215	0.520	0.650	0.003	(0.003)	0.214	0.558	2.156	15.082
	August	0.202	R0.533	0.661	0.002	(0.001)	0.216	0.525	R2.138	R17.220
	September	0.211	0.599	0.627	0.002	(0.003)	0.205	0.459	2.099	19.318

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	(1)	0.543	19.157	0.010	0.025	19.736	
1978	TOTAL	(1)	0.539	20.044	0.009	0.022	20.614	
1979	TOTAL	(¹)	0.612	19.786	0.010	0.025	20.434	
1980	January	(¹)	0.073	1.671	0.001	0.002	1.747	1.747
	February	(1)	0.070	1.602	0.001	0.002	1.674	3.422
	March	(1)	0.068	1.623	0.001	0.002	1.694	5.115
	April	(1)	0.050	1.578	0.001	0.002	1.630	6.746
	May	(¹)	0.044	1.571	0.001	0.002	1.618	8.364
	June	(1)	0.041	1.516	0.001	0.002	1.560	9.924
	July	(1)	0.042	1.579	0.001	0.002	1.624	11.548
	August	(1)	0.042	1.543	0.001	0.002	1.588	13.136
	September	(1)	0.042	1.517	0.001	0.002	1.562	14.698
	October	(1)	0.050	1.610	0.001	0.002	1.663	16.361
	November	(1)	0.057	1.498	0.001	0.002	1.559	17.920
	December	(1)	0.070	1.688	0.001	0.002	1.761	19.680
	TOTAL	(1)	0.648	18.996	0.011	0.026	19.680	
1981	January "	(1)	0.077	1.703	0.001	0.003	1.783	1.783
	February	(1)	0.065	1.446	0.001	0.002	1.514	3.298
	March	(1)	0.065	1.548	0.001	0.002	1.616	4.914
	April	(1)	0.050	1.491	0.001	0.002	1.544	6.458
	May	(1)	0.048	1.517	0.001	0.002	1.569	8.027
	June	(+)	0.044	1.569	0.001	0.002	1.616	9.643
	July	(1)	0.045	1.584	0.001	0.003	1.632	11.275
	August	(1)	0.044	1.540	0.001	0.002	1.587	12.863
	September	(1)	0.043	1.505	0.001	0.002	R1.552	14.414
	October	(1)	0.051	1.552	0.001	0.002	1.607	16.021
	November	(1)	0.055	1.481	0.001	0.002	1.539	17.560
	December	(1)	0.071	1.623	0.001	0.003	1.697	19.257
	TOTAL	(1)	0.657	18.559	0.012	0.028	19.257	
1982	January	(1)	0.080	1.517	0.001	0.003	1.601	1.601
	February	· (1)	0.067	1.390	0.001	0.002	1.460	3.060
	March	(1)	0.061	1.569	0.001	0.003	1.634	4.694
	April	(1)	0.050	1.574	0.001	0.002	1.627	6.321
	May	(1)	0.039	1.527	0.001	0.003	1.569	7.891
	June	(1)	0.038	1.500	0.001	0.002	1.541	9.432
	July	(1)	0.039	1.514	0.001	0.003	1.557	10.988
	August	(1)	R0.039	1.505	0.001	0.002	R1.547	R12.535
	September	(1)	0.039	1.464	0.001	0.002	1.507	14.042

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.

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

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
					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	
	TOTAL	8.786	3.240	3.231	3.187	1.900	0.072	20.416	
	TOTAL	9.720	3.152	3,454	3.032	2.111	0.081	21.549	•
	TOTAL	10.243	3.284	4.028	2.482	2.702	0.082	22.821	
		10.236	3.297	3.813	3.110	3.024	0.068	23.548	
	TOTAL		3.609	3.357	3.107	2.715	0.089	24.141	
1979	TOTAL	11.264					0.008	2.134	2.134
1980	January	1.073	0.286	0.277	0.280	0.210	0.008	1.997	4.131
	February	1.012	0.273	0.261	0.238	0.205 0.213	0.008	2.017	6.148
	March	0.994	0.294	0.238	0.270	0.213	0.008	1.835	7.983
	April	0.866	0.265	0.210	0.284 0.317	0.200	0.000	1.896	9.879
	Мау	0.883	0.291	0.199		0.195	0.009	2.031	11.910
	June	0.976	0.348	0.199	0.304	0.195	0.009	2.287	14.197
	July	1.143	0.435	0.204	0.272		0.010	2.255	16.452
	August	1.133	0.419	0.203	0.230	0.259 0.251	0.011	2.063	18.515
	September	1.020	0.369	0.203	0.209		0.010	1.948	20.463
	October	0.960	0.312	0.201	0.203	0.261 0.223	0.011	1.903	22.366
	November	0.973	0.264	0.215	0.217		0.011	2.077	24.444
	December	1.089	0.250	0.243	0.249	0.235			24.444
	TOTAL	12.122	3.807	2.654	3.074	2.672	0.114	24.444	0.104
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 6.108
	March	1.031	0.283	0.192	0.233	0.234	0.011	1.984	7.964
	April	0.930	0.299	0.163	0.234	0.220	0.010	1.857	9.904
	May	0.958	0.327	0.165	0.270	0.210	0.010	1.939	12.069
	June	1.066	0.394	0.177	0.293	0.225	0.010	2.165	14.404
	July	1.196	0.425	0.178	0.280	0.246	0.011	2.335	16.676
	August	1.160	0.403	0.167	0.244	0.287	0.011	2.271 2.008	18.684
	September	1.032	0.336	0.165	0.204	0.260	0.011	1.939	20.622
	October	1.018	0.312	0.172	0.208	0.219	0.011	1.939	22.528
	November	1.001	0.268	0.169	0.216	0.242	0.010		24.664
	December	1.131	0.248	0.205	0.267	0.277	0.010	2.137	24.004
	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	0.133	0.304	0.271	0.010	2.261	14.352
	August	1.166	0.374	0.140	0.268	0.264	0.010	2.222	16.573
	September	1.031	0.303	0.132	0.226	0.270	0.010	1.971	18.545

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 geothermal power and electricity produced from wood and waste.

*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 for resale
- 2. Conversion Factors: See the inside back cover of this publication for factors applied in converting physical unit data into British thermal units (Btu)
- 3. Coal: Coal is anthracite, bituminous coal, and lignite.

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

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

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, FIA Form 759, "Monthly Power Plant Report."

American Gas Association "Monthly Gas Utility Statistical 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.

- oroducts 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.
- Aspiralt 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 categoriza-tions 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 the 1977 shares are applied to
- Motor gasoline Total product supplied is allocated to the major end-use sectors in proportion to aggregations of sales categories formed from the U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, Tables MF-21, MF-24, and MF-25, as follows:

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

Industrial sales are the sum of sales for agriculture, construction and industrial and commercial use as classified in the Highway Statistics; and

Transportation sales are the sum of sales for highway use (minus the sales of special fuels which are primarily diesel fuel and accounted for in the transportation sector of distillate fuel) and sales for marine use.

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

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

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

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

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

Electric utility deliveries are presented for all years.

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

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

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

- 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.

• 1973 through 1975, DOI, BOM, Minerals Yearbook, "Coke and Coal Chemicals, Annual."

1976 forward: DOE, EIA, Energy Data Reports, "Coke and Coal Chemicals, Monthly."
 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 October 1982 was estimated to be 8.7 million barrels per day, 0.7 percent below the rate in September 1982 but 1.3 percent above the rate in October 1981.

Total petroleum imports averaged 5.0 million barrels per day in October 1982, 6.8 percent lower than the September 1982 rate and 16.2 percent lower than the October 1981 rate.

In October 1982, 15.2 million barrels per day of petroleum products were supplied for domestic use, 1.8 percent above the level in September 1982 but 4.0 percent below the level of 1 year earlier. Motor gasoline accounted for 42.8 percent of the total; distillate fuel oil, 17.1 percent; and residual fuel oil, 9.3 percent.

Motor gasoline supplied during October 1982 averaged 6.5 million barrels per day, approximately the same as in September 1982 but 1.1 percent lower than 1 year earlier. Stocks of motor gasoline totaled 228

million barrels at the end of October 1982, 6 million barrels below the inventories reported at the end of September 1982 and 8 million barrels below the October 1981 inventories.

In October 1982, 2.6 million barrels of distillate fuel oil were supplied per day, 3.1 percent higher than the September 1982 rate but 7.5 percent below the October 1981 level. Distillate fuel oil stocks were 165 million barrels at the end of October 1982, 4 million barrels higher than at the end of the previous month but 36 million barrels below the stock level 1 year earlier.

Residual fuel oil supplied in October 1982 averaged 1.4 million barrels per day, 3.6 percent lower than in September 1982 and 24.7 percent lower than the October 1981 rate. Residual fuel oil stocks measured 62 million barrels at the end of October 1982, the same amount as at the end of the previous month but 18 million barrels lower than the ending stocks for the month of October 1981.

Part 3

Petroleum

^{*}Estimates for the most current month are based on Energy Information Administration (EIA) weekly data (except crude production) and will be revised to conform with data from the EIA Petroleum Reporting System as available. For the most recent month, crude production is an EIA estimate based on historical and provisional data through July 1982. The total import data above include imports into the Strategic Petroleum Reserve.

Petroleum

Crude Oil¹ and Petroleum Products Overview

		Fi	leld Produc	tion	Stock Withdrawal ²			Ending Stocks
		Total Domestic ³	Crude Oil	Natural Gas Plant Production	Crude Oil			Crude Oil ⁴ and Petroleum Product
				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	‡1,13 3
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	•
	February	10,402	8,705	1,656	-292	563		1,351
	March	10,303	8,698				18,817	1,343
	April	10,356	0,030	1,568	-47	-99	17,377	1,348
			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	1,002
. 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 3	10,195	8,557	1,599	-595	148	15,350	1,415
	May a	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	1,430
	August	10,243	8,583	1,614	397	-999		1,439
	September	10,281	8,604	1,612	-285	-341	15,263	1,457
	October	10,225	8,563	1,598			15,655	1,476
	November	10,269	8,586		-760	477	15,822	1,485
	December	10,220		1,630	-325	-233	15,593	1,501
	AVERAGE	10,220	8,585 8,572	1,590 1,609	-170 -290	745 130	16,596 16,058	1,484
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		
	March	10,212	8,597	1,570	-65	1,049	15,941	1,431
	April	10,296	8,652			1,049	15,560	1,401
	May	10,223	8,660	1,588	107	1,594	16,048	1,350
	June			1,520	49	-34	14,845	1,349
		10,242	8,681	1,505	86	-515	14,931	1,362
	July	10,228	8,649	1,521	-155	-865	14,771	1,394
	August	10,301	8,701	1,543	-440	4	14,838	1,407
	September	10,306	R8,733	1,513	R252	R-489	R14,921	R1,415
	October†	NA	<i>8,676</i>	NA	-142	295	15,186	1,432
	AVERAGE	NA	8,670	NA	-77	336	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						
	•	Total	Crude Oil•	Petroleum Products	Total	Crude Oil	Petroleum Products	Net Imports
				Th	ousand 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	January	8,598	6,406	2,192	550	322	228	8,048
	February	7,945	6,013	1,931	558	332	227	7,386
	March	7,452	5,695	1,757	573	330	243	6,879
	April	7,106	5,598	1,508	434	192	241	6,672
	May	6,579	5,106	1,472	591	326	266	5,987
	June	6,894	5,480	1,414	654	365	289	6,240
	July	6,257	4,843	1,414	531	238	293	5,727
	August	6,192	4,803	1,389	319	78	241	5.873
	September	6,239	4,707	1,532	557	322	235	5,682
	October	6,379	4,768	1,611	598	309	288	5,781
	November	6,408	4,680	1,728	549	289	260	5.859
	December	6,894	5,082	1,812	622	343	279	6,272
	AVERAGE	6,909	5,263	1,646	544	287	258	6,365
1981	January	6,827	4,932	1,895	558	339	219	6,270
	February	6,772	4,873	1,899	569	198	371	6,203
	March	6,028	4,521	1,507	586	210	376	5,442
	April	5,668	4,338	1,330	570	198	372	5,098
	May	5,775	4,287	1,489	595	312	283	5,180
	June	5,435	4,061	1,375	420	123	297	5,015
	July	5,816	4,296	1,521	571	257	314	5,245
	August	5.767	4,179	1,588	644	204	440	5,123
	September	6,365	4,740	1,624	519	194	325	5,845
	October	5,959	4,380	1,579	738	226	512	5,221
	November	5,741	4,046	1,695	701	278	423	5,041
	December	5,843	4,137	1,706	656	189	467	5,187
	AVERAGE	5,996	4,396	1,599	595	228	367	5,401
1982	January	5,232	3,648	1,585	829	238	591	4,404
	February	4,691	2,949	1,742	804	304	499	3,887
	March	4,461	2,856	1,606	882	321	561	3,579
	April	4,286	2,813	1,474	786	174	611	3,501
	May	4,784	3,314	1,471	803	262	542	3,981
	June	5,227	3,782	1,445	703	94	609	4,524
	July	5,763	4,245	1,518	741	229	512	5,022
	August	5,156	3,820	1,336	858	304	554	4,298
	September	R5,359	R3,603	R1,757	791	184	606	4,569
	October†	4,992	3,651	1,340	NA	NA	NA	NA
	AVERAGE	4,998	3,474	1,525	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. Includes lease condensate.

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

Includes shipments to the U.S. possessions and territories.

Includes crude oil for storage in the Strategic Petroleum Reserve.

Net Imports equals Imports minus Exports.

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

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

Crude Oil¹ Supply and Disposition

Supply

		Supply					_			
		Fleid Pr	oduction		Imports ²		Stock W	ithdrawal³		
		Total Domestic	Alaskan	Total	SPR'	Other	SPR+	Other		
				Thousa	nd barrels p	oer day		•		
1973	AVERAGE	9,208	198	3,244		3,244		11		
1974	AVERAGE	8,774	193	3,477		3,477		-62		
1975	AVERAGE	8,375	191	4,105		4,105		-17		
1976	AVERAGE	8,132	173	5,287		5,287		-39		
1977	AVERAGE	8,245	464	6,615	21	6,594	-20	-150		
1978	AVERAGE	8,707	1,229	6,356	162	6,195	-163	84		
1979	AVERAGE	8,552	1,401	6,519	67	6,452	-67	-81		
1980	January	8,675	1,634	6,406	0	6,406	0	-594		
	February	8,705	1,630	6,013	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	Ö	65		
	July	8,547	1,612	4,843	Ö	4,843	ŏ	88		
	August	8,414	1,612	4,803	Ö	4,803	ŏ	-27 4		
	September	8,619	1,610	4,707	54	4,653	-54	361		
	October	8,532	1,588	4,768	131	4,637	-123			
	November	8,495	1,561	4,680	142			-68		
	December	8,606	1,602			4,538	-189	181		
	AVERAGE	8,59 7	1,617	5,082 5,263	198 44	4,884 5,219	-177 -45	481 -52		
1981	January	8,540	1,606	4,932	106	4,826	-45 -151	201		
	February	8,604	1,619	4,873	80	4,793	-127	-150		
	March	8,613	1,618	4,521	140					
	April	8,557	1,608	4,338		4,382	-155	-477		
	May				272	4,066	-444	-151		
	June	8,501	1,580	4,287	386	3,901	-513	122		
		8,629	1,632	4,061	318	3,743	-434	299		
	July	8,500	1,605	4,296	175	4,121	-324	-36		
	August	8,583	1,602	4,179	257	3,922	-372	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	-233 -176	225		
	June	8,681	1,675	3,782	105	3,678				
	July	8,649	1,715				-105	191		
	August	8,701	1,699	4,245	97	4,147	-97	-58		
	September			3,820	208	3,611	-208	-233		
		R8,733	R1,707	R3,603	R139	R3,463	R-143	R395		
	October†	8,676	1,677	<i>3,651</i>	211	3,440	<i>-223</i>	81		
	AVERAGE	8,670	1,701	3,474	167	3,307	-179	102		

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.

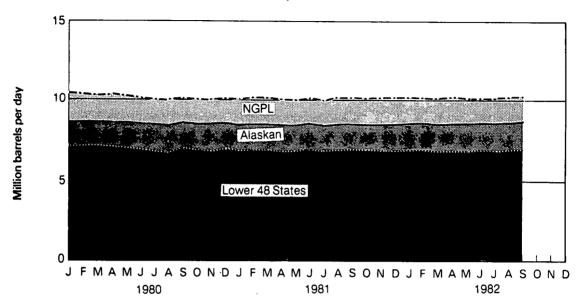
Crude Oil¹ Supply and Disposition (continued)

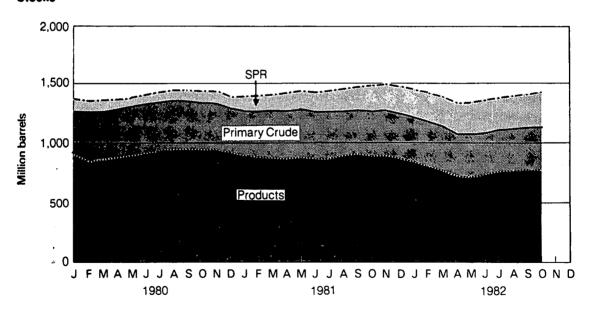
		Sup	ply	Dispo	sition	Ε	nding Sto	cks
		Unaccounted for Crude Oll	Crude Used Directly and Losses	Refinery inputs	Exports ²	Total	SPR [,]	Other Primary
			Thousand barre	ls per day		ı	Million barr	els
1973	AVERAGE	3	-32	12,431	2	‡242		‡242
1974	AVERAGE	-25	-28	12,133	3	‡265		‡265
1975	AVERAGE	17	-30	12,442	6	‡271		‡271
1976	AVERAGE	77	-33	13,416	8	‡285		‡285
1977	AVERAGE	-6	-30	14,602	50	‡348	‡7	‡340
1978	AVERAGE	-57	-30	14,739	158	‡376	‡67	‡309
1979	AVERAGE	-11	-29	14,648	235	‡430	‡91	‡339
1980	January	166	-31	14,301	322	449	91	358
	February	124	-31	14,187	332	457	91	366
	March	-278	-30	13,709	330	459	91	367
	April	-165	-29	13,484	192	471	91	380
	May	55	-28	13,326	326	475	91	383
	June	1	-30	13,705	365	473	91	381
	July	52	-29	13,264	238	470	91	379
	August	147	-28	12,984	78	478	91	387
	September	27	-26	13,313	322	469	93	376
	October	-3	-25	12,772	309	475	97	379
	November	266	-26	13,119	289	475	102	373
	December	24	-26	13,648	343	466	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	397
	May	286	-62	12,309	312	544	150	394
	June	49	-65	12,415	123	548	163	385
	July	147	-65	12,261	257	559	173	386
	August	16	-63	12,908	204	547	185	362
	September	-295	-65	12,505	194	555	199	356
	October	166	-66	12,057	226	579	215	364
	November	279	-68	12,240	278	589	223	366
	December	52	-67	12,349	189	594	230	363
	AVERAGE	83	-63	12,470	228			
1982	January	-138	-66	11,638	238	606	235	371
	February	199	-66	11,252	304	612	241	371
	March	278	-68	11,277	321	614	249	366
	April	56	-68	11,386	174	611	256	355
	May	105	-65	11,801	262	609	261	348
	June	110	-67	12,498	94	607	264	343
	July	1	-63	12,447	229	612	267	345
	August	140	-59	11,858	304	625	274	352
	September	-218	-59	R12,126	184	R618	278	R340
	October†	NA	NA	11,878	NA	639	285	355
	AVERAGE	NA	NA	11,820	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

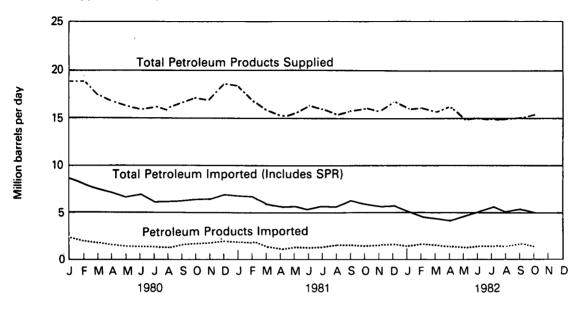
Production of Crude Oil and Natural Gas Plant Liquids



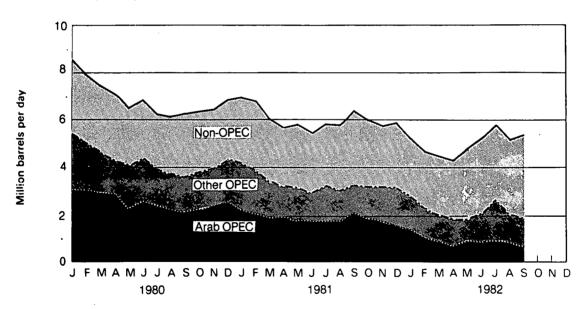


Overview

Products Supplied and Imports



Petroleum Imports by Source



Petroleum
Crude Oil and Petroleum Product Imports from OPEC Sources

ş ·		Algeria	Libya	Saudi Arabia	United Arab Emirates	Indo- nesia	Iran	Nigeria	Vene- zuela	Other OPEC ¹	Total OPEC	Total Arab OPEC ²
¥•·		g		7				s per day	Lucia	OFEC	OPEO	OPEC-
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 April	472 546	654 683	1,380	289	405	0	924	352	175	4,652	2,889
	May	441	468	1,300 1,149	150 172	374 360	0 0	734 955	343	240	4,369	2,862
	June	497	561	1,328	178	331	0	998	405 409	147 106	4,098	2,329
	July	557	492	1,192	158	365	ŏ	752	417	62	4,408 3,995	2,598 2,418
	August	432	431	1,139	142	289	ŏ	792	406	112	3,743	2,416
	September	375	505	1,112	107	299	Ŏ	735	425	111	3,670	2,185
	October	465	478	1,044	182	348	ŏ	728	482	95	3,821	2,103
	November	493	500	1,201	105	348	Ŏ	624	595	78	3,944	2,338
	December	423	658	1,301	83	288	Ō	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 July	356 333	380 251	865	60	367	0	528`	248	118	2,922	1,703
	August	348	274	1,073 1,082	80 61	340 377	0 0	651	466	38	3,233	1,757
	September	336	154	1,477	96	377	0	321 323	523 359	84	3,070	1,765
	October	242	147	1,342	90	427	0	323 412	389	149 172	3,264 3,220	2,063
	November	210	132	1,270	112	353	Ö	517	535	56	3,220	1,820 1,724
	December	176	122	1,045	158	400	ŏ	684	411	132	3,129	1,502
	AVERAGE	311	319	1,129	81	366	Ō	620	406	90	3,323	1,848
1982	January	254	161	877	87	273	0	662	376	128	2.818	1,378
	February	139	92	692	79	236	ŏ	579	347	102	2,267	1,044
	March	91	37	555	155	200	Ö	503	399	91	2.032	860
	April	85	0	479	122	215	ō	427	411	79	1,818	707
	May	179	0	601	116	236	0	211	414	54	1,811	897
	June	93	0	593	94	215	72	537	361	110	2,075	799
	July	122	0	644	123	327	69	910	349	95	2,640	927
	August	170	0	489	133	272	27	542	288	134	2,057	807
	September	162	0	432	57	191	21	479	514	52	1,907	659
	AVERAGE	144	32	596	108	241	21	539	384	94	2,160	898

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	Rico¹	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	175	570	545	289	239	296	57	467	492	3,131
	February	111	540	477	205	192	105	95	536	652	2,914
	March	124	460	460	184	189	232	101	449	601	2,800
	April	56	459	546	231	143	182	76 88	425 303	619	2,737
	May	77 77	419	576 607	176 197	221 162	124 146	98 91	314	496 465	2,481 2,486
	June	43	409 378	627 460	242	180	115	90	378	376	2,466
	July	43 62	376 319	646	255	159	196	85	264	463	2,202
	August September	58	458	550	213	205	218	52	343	473	2,449
	October	70	475	605	230	114	134	107	372	450	2,557
	November	22	470	459	264	158	157	108	391	435	2,464
	December	54	502	445	212	149	199	109	423	378	2,471
	AVERAGE	78	455	533	225	176	176	88	388	491	2,609
1981	January	39	543	401	198	150	233	89	494	552	2,701
	February	84	546	437	227	163	271	46	481	626	2,881
	March	74	472	488	227	93	263	45	370	571	2,603
	April	68	412	418	198	139	402	40	365	380	2,423
	Мау	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 October	111 63	423 449	708 669	163 161	169 121	528 351	72 60	265 303	661 562	3,100 2,739
	November	63	547	628	168	108	253	76	294	421	2,739
	December	70	501	587	148	125	280	73	367	563	2,714
	AVERAGE	74	447	522	197	133	375	62	327	534	2,672
1982	January	28	509	426	179	106	346	62	334	425	2,415
	February	50	533	489	221	120	132	38	354	487	2,424
	March	43	435	503	189	118	293	62	307	479	2,429
	April	67	357	467	180	166	247	36	266	682	2,468
	May	76	416	767	152	95	516	47	302	603	2,974
	June	32	462	797	141	129	539	58	322	673	3,153
	July	30	527	783	158	111	433	38	369	674	3,122
	August	68	435	854	145	106	520	24	320	627	3,099
	September	92	484	897	195	89	631	51	270	744	3,453
	AVERAGE	54	462	666	173	115	409	46	316	599	2,840

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

*U.S. possessions.

*Includes all non-OPEC countries except those shown above.

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

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

Finished Motor Gasoline Supply and Disposition

			Supply		Disposition			Ending Stocks		
		Total		Ohnala		F	Product Suppl	ied	Total	Finished
		Production	Imports ¹	Stock Withdrawai¹²	Exports	Total	Unleaded ³	Unleaded Percent	Motor Gasoline⁴	Motor Gasoline
				Thousand	d barrels per 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		
1000	February	6,866	154	-423	(s)	•			262	
	March	6,519	155	-423 -267		6,596	2,969	45.0	275	
	April		155		(s)	6,406	3,032	47.3	283	
		6,284		362	1	6,800	3,021	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	ìí	6,615	3,115	47.1	259	213
	June	6,220	186	622	1	7,028	3,419	48.6	242	194
	July	6,405	151	268	(s)	6,823	3,424	50.2	228	186
	August	6,611	124	-95	3	6,637	3,344	50.4	233	189
	September	6.564	169	-70	2	6,662	3,338	50.1	237	191
	October	6,426	147	7	3	6,578	3,257	49.5	236	190
	November	6,564	148	-338	1	6,373	3,198	50.2	248	201
	December	6,586	197	-91	11	6,681	3,444	51.5	253	203
	AVERAGE	6,405	157	28	2	6,588	3,264	49.5	255	203
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				
	April	6,104	177	641	33	6,890	3,396	51.4 50.7	248	199
	May	6,322	163	188	23	•	3,494	50.7	223	180
	June	6,767	195	-136	23 14	6,650	3,415	51.3	215	174
	July	6,788	200			6,812	3,561	52.3	220	178
	•			-165	24	6,799	3,574	52.6	226	183
	August	6,447 Be 520	284	-60	16	6,655	3,520	52.9	226	185
	September	R6,530	215	-217	22	R6,507	3,385	52.0	R234	191
	October†	6,271	NA	NA	NA	6,503	NA	NA	228	NA
	AVERAGE	6,336	NA	NA	NA	6,545	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.

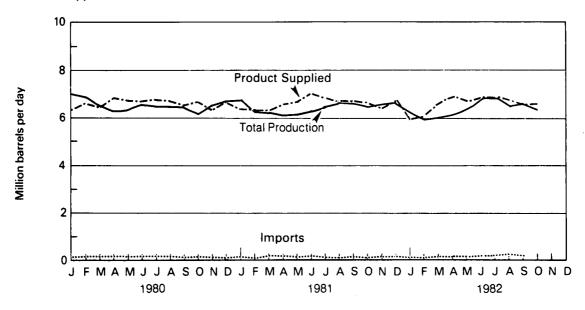
Includes gasohol.

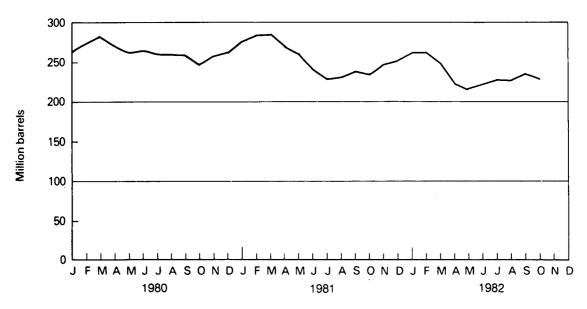
Includes motor gasoline blending components. Ending stocks for 1973-1979 are totals as of December 31. fitalics denote preliminary data. R=Revised data. NA=Not available. (s)=Less than 500 barrels per day. Notes: Beginning in 1981, survey forms were modified. See Note 2 on the last page of the section. 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





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	i	8	3,712	192	
	March	2,558	193	445	i	19	3,179		
	April	2,461	154	21	2	2	2,635	178	
	May	2,474	126	-199	1	1		177	
	June	2,647	108	-439			2,402	183	
	July	2,690	117	-439 -557	1	(s)	2,317	197	
		2,6 9 0 2,462	77	-557 -403	2	3	2,249	214	
	August				2	(s)	2,137	226	
	September October	2,686	101	-201	2	(s)	2,587	232	
	November	2,590	115	215	1	(s)	2,920	226	
		2,703	133	111	1	(s)	2,949	222	
	December AVERAGE	2,891	166	556	1	(s)	3,615	205	
1001		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	17	3,373	173	
	March	2,484	147	264	9	(s)	2,904	164	
	April	2,418	116	-9	10	3	2,532	165	
	May	2,454	179	-232	10	(s)	2,411	172	
	June	2,501	225	-270	9	(s)	2,464	180	
	July	2,395	179	-204	10	2	2,378	186	
	August	2,656	174	-450	8	(s)	2,388	200	
	September	2,610	129	-235	10	1	2,513	207	
	October	2,485	119	197	9	5	2,803	201	
	November	2,716	124	36	11	6	2,880	200	
	December	2,856	95	277	11	26	3,212	192	
	AVERAGE	2,613	173	38	10	5	2,829		
1982	January	2,615	96	780	10	90	3,410	166	
	February	2,447	130	689	11	90	3,187	147	
	March	2,294	48	612	10	84	2,881	128	
	April	2,357	59	631	13 .	64	2,996	109	
	May	2,618	74	-184	10	75	2,444	114	
	June	2,731	100	-335	10	55	2,450	125	
	July	2,734	124	-761	11	24	2,084	148	
	August	2,526	79	-346	10	40	2,228	159	
	September	R2,658	R59	R-77	12	139	R2,514	R161	
	October†	2,897	<i>73</i>	<i>-354</i>	NA	NA	2,593	<i>165</i>	
	AVERAGE	2,589	84	59	NA	NA	2,674		

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.

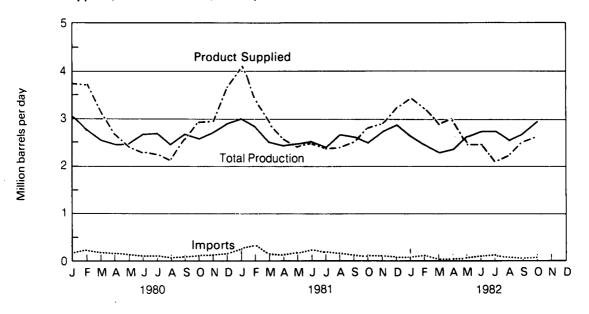
Notes: Beginning in 1981, survey forms were modified. See Note 3 on the last page of this section.

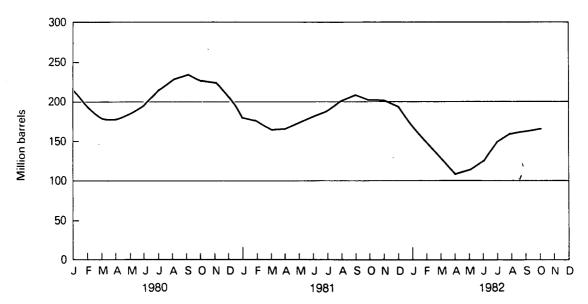
Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

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

Distillate Fuel Oil

Product Supplied, Total Production, and Imports





Residual Fuel Oil Supply and Disposition

1973 AVERAGE 1974 AVERAGE 1975 AVERAGE 1976 AVERAGE 1977 AVERAGE 1978 AVERAGE 1979 AVERAGE 1980 January February March April May June July August September October November AVERAGE 1981 January February March April May June July August September AVERAGE 1981 January February March April May June July August September October November AVERAGE 1982 January February March April May March April May March April May			ply		Disposition		Ending Stocks	
1974 AVERAGE 1975 AVERAGE 1976 AVERAGE 1977 AVERAGE 1978 AVERAGE 1979 AVERAGE 1980 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	Total Production	Imports	Stock Withdrawal ¹	Crude Used Directly	Exports	Product Supplied		
1974 AVERAGE 1975 AVERAGE 1976 AVERAGE 1977 AVERAGE 1978 AVERAGE 1979 AVERAGE 1980 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April			Thousand ba	rrels per day			Million barrels	
1975 AVERAGE 1976 AVERAGE 1977 AVERAGE 1978 AVERAGE 1979 AVERAGE 1980 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	971	1,853	5	17	23	2,822	‡53	
1976 AVERAGE 1977 AVERAGE 1978 AVERAGE 1979 AVERAGE 1980 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April May August September October November December AVERAGE	1,070	1,587	-17	13	14	2,639	‡60	
1977 AVERAGE 1978 AVERAGE 1979 AVERAGE 1980 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April April August September October November December AVERAGE	1,235	1,223	2	15	15	2,462	174	
1977 AVERAGE 1978 AVERAGE 1979 AVERAGE 1980 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April April August September October November December AVERAGE	1,377	1,413	5	17	12	2,801	<u>‡</u> 72	
1978 AVERAGE 1979 AVERAGE 1980 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April May June July August September October November December AVERAGE	1,754	1,359	-48	13	6	3,071	190	
1979 AVERAGE 1980 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April May June July August September October November December AVERAGE	1,667	1,355	-1	13	13	3,023	190	
1980 January February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,687	1,151	-15	12	9	2,826	196	
February March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April April April April April April April						•	•	
March April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April May June July August September October November December AVERAGE	1,771	1,338	-51	14	.5	3,067	97	
April May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,773	1,122	214	14	17	3,105	91	
May June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE	1,584	976	. 87	14	2	2,658	88	
June July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,595	775	102	13	40	2,444	85	
July August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,509	812	-78	12	20	2,235	88	
August September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,575	749	-4	14	14	2,321	88	
September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,480	787	71	13	60	2,291	86	
September October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,444	875	-43	13	2	2,286	87	
October November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,495	906	-31	10	21	2,359	88	
November December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,512	875	-100	9	70	2,227	91	
December AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,579	1,024	-74	10	88	2,451	93	
AVERAGE 1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,660	1,025	46	10	62		92	
1981 January February March April May June July August September October November December AVERAGE 1982 January February March April	1,580	939	10	12	33	2,679 2,508	92	
February March April May June July August September October November December AVERAGE 1982 January February March April	1,612	1,015	302	32	65	2,896	82	
March April May June July August September October November December AVERAGE 1982 January February March April	1,565	954						
April May June July August September October November December AVERAGE 1982 January February March April			150	44	125	2,588	78	
May June July August September October November December AVERAGE 1982 January February March April	1,424	699	100	48	145	2,126	75	
June July August September October November December AVERAGE 1982 January February March April	1,320	584	66	49	151	1,868	73	
July August September October November December AVERAGE 1982 January February March April	1,223	741	-170	49	25	1,817	78	
August September October November December AVERAGE 1982 January February- March April	1,232	540	291	49	76	2,037	69	
September October November December AVERAGE 1982 January February March April	1,174	830	2	48	82	1,971	69	
October November December AVERAGE 1982 January February March April	1,231	819	-179	50	69	1,852	75	
November December AVERAGE 1982 January February March April	1,292	841	-176	51	126	1,882	80	
December AVERAGE 1982 January February March April	1,238	786	8	54	202	1,884	80	
1982 January February March April	1,227	880	-49	53	203	1,909	81	
1982 January February March April	1,329	916	110	52	157	2,250	78	
February March April	1,321	800	37	48	118	2,088		
February March April	1,183	821	328	53	235	2,150	. 68	
March April	1,136	928	358	53	213	2,261	58	
April	1,121	910	26	53	197	1,912	57	
	1,162	762	124	52	234	1,867	54	
ITICAT	1,127	738	-175	52	191	1,551	59	
June	1,077	643	-175 -49	52 50	217			
						1,504	61	
July	1,029	576 540	51	49	239	1,466	59	
August	1,007	519	200	47	235	1,538	_53	
September		R871	R-302	44	148	R1,472	R62	
October†	981	<i>658</i>	-31	NA	NA	1,419	62	
AVERAGE	1,083	741	51	NA	NA	1,710		

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

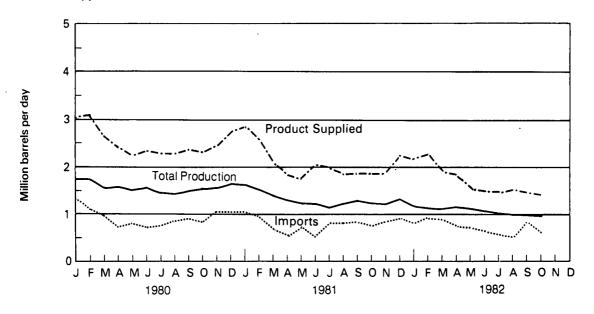
Totals may not equal sum of components due to independent rounding.

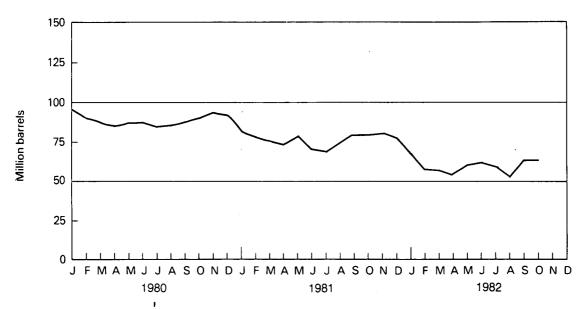
A negative number indicates an increase in stocks and a positive number indicates a decrease. Ending stocks for 1973 – 1979 are totals as of December 31. Italics denote preliminary data. R = Revised data. NA = Not available.

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





Petroleum Liquefied Petroleum Gases and Ethane Supply and Disposition

			Supply		Disposition			Ending Stocks		
		Total Production	imports	Stock Withdrawal ¹	Refinery Inputs	Exports	Product Supplied			
				Thousand barr	rels per day			Million barrels		
1973	AVERAGE	1,600	132	-35	220	27	1,449	199		
1974	AVERAGE	1,565	123	-38	220	25	1,406	1113		
1975	AVERAGE	1,527	112	-35	246	26	1,333	1125		
1976	AVERAGE	1.535	130	24	260	25	1,404	•		
		.,					-	‡116		
1977	AVERAGE	1,566	161	-55	233	18	1,422	‡136		
1978	AVERAGE	1,537	123	12	239	20	1,413	‡132		
1979	AVERAGE	1,556	217	70	236	15	1,592	‡111		
1980	January	1,560	264	461	291	30 `	1.963	96		
	February	1,581	252	209	252	26	1,764	90		
	March	1,519	214	7	211	23	1,506	90		
	April	1,546	186	-339	171	19	1,203	100		
	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	1,597	134		
	November	1,549	231	82	304	23	1,535	132		
	December	1,567	289	373	319	23	1,888	120		
	AVERAGE	1,535	216	-27	233	21	1,469			
1981	January	1,617	306	363	352	21	1.913	117		
	February	1,593	327	173	303	21	1,769	112		
	March	1,551	260	-4	257	20	1,530	112		
	April	1,586	214	-236	231	26	1,308	119		
	May -	1,587	189	-258	220	19	1.279	127		
	June	1,567	206	-208	237	24	1,304	133		
	July	1,507	213	-258	215	17	1,229	141		
	August	1,592	195	-242	235	149	1,160	149		
	September	1,622	199	-75	287	21	1,438	151		
	October	1,593	287	72	320	76	1,556	149		
	November	1,571	280	86	383	58	1,495	146		
	December	1,468	255	379	428	50	1,624	135		
	AVERAGE	1,571	244	-18	289	42	1,466			
1982	January	1,546	314	480	398	67	1,873	122		
	February	1,476	291	310	327	51	1,699	114		
	March	1,523	223	145	289	74	1,528	109		
	April	1,566	188	107	257	77	1,527	106		
	May	1,583	186	-61	235	43	1,431	108		
	June	1,571	192	-10 9	262	106	1,286	111		
	July	1,556	227	-5	253	37	1,487	111		
	August	1,591	125	-44	254	6 1	1,357	112		
	September	1,606	247	33	273	85	1,528	111		
	AVERAGE	1,558	221	94	283	67	1,523			

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

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

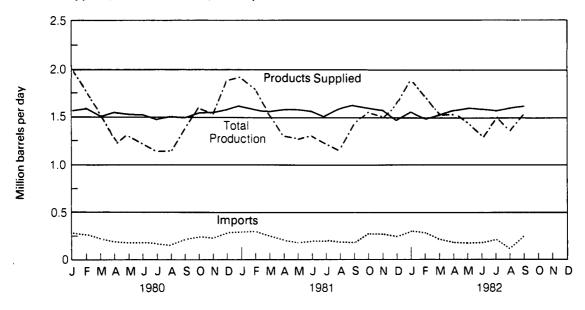
'A negative number indicates an increase in stocks and a positive number indicates a decrease.

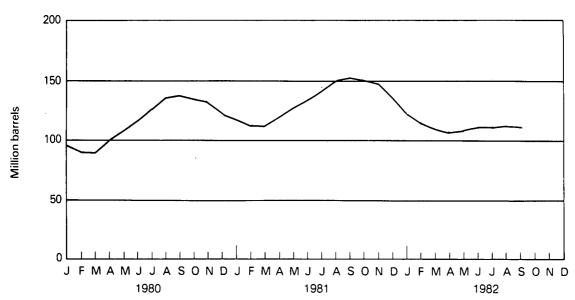
‡Ending stocks for 1973 – 1979 are totals as of December 31.

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	n	Ending Stocks	
		Total Production	Imports	Stock Withdrawal ²	Refinery Inputs	Exports	Product Supplied		
				Thousand barr	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	
	February	4,181	167	-153	380	174	3,641	239	
	March	4,128	219	-370	149	200	3,627	250	
	April	4,105	238	-374	86	180	3,703	261	
	May	4,018	222	-301	135	227	3,577	271	
	June	4,016	226	-49	250	256	3,687	272	
	July	3,873	188	82	356	209	3,578	270	
	August	3,753	139	212	351	221	3,532	263	
	September	3,952	206	25	234	188	3,761	262	
	October	3,737	220	175	351	193	3,588	257	
	November	3.787	213	156	475	148	3,533	257 252	
	December	3,792	209	151	362	194	•		
	AVERAGE	3,956	210	-23	311	194	3,596 3,634	247	
1981		,					•		
1301	January	3,821	162	80	851 500	132	3,081	296	
	February	3,723	182	-200	538	208	2,958	302	
	March	3,722	230	-55	642	210	3,043	304	
	April	3,711	230	24	733	192	3,040	303	
	May	3,892	229	-58	594	238	3,231	305	
	June	3,925	218	-29	656	197	3,261	306	
	July	3,852	149	284	791	212	3,282	297	
	August	3,876	276	-33	676	219	3,225	298	
	September	3,718	286	215	883	176	3,159	291	
	October	3,503	241	193	710	227	3,000	285	
	November	3,579	262	33	784	154	2,935	284	
	December	3,543	243	71	805	223	2,829	282	
	AVERAGE	3,739	226	46	723	199	3,088		
1982	January	3,181	240	-102	602	180	2.536	284	
	February	3,364	260	-116	646	138	2.724	287	
	March	3,485	241	-204	734	161	2,627	294	
	April	3,394	287	91	801	204	2,767	291	
	May	3,296	309	198	823	210	2,769	285	
	June	3,481	315	115	815	216	2,709	281	
	July	3,578	391	15	862	187		281	
	August	3,519	329	256	841	202	2,935		
	September	3,442	365	256 74	767	213	3,060	273	
	•	•					2,901	271	
	AVERAGE	3,416	304	37	767	190	2,800		

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

Notes

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

2. Motor Gasoline: Beginning in January 1981, the EIA expanded its universe to include non-refinery blenders; redefined

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

Sources

- 1973 through 1976: Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual" (except unleaded gasoline)
- and "PAD Districts Supply/Demand, Annual."

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

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

January 1982 through September 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

Agencies and the U.S. Geological Survey.

• Sources for the Energy Data Reports, the Petroleum Supply Monthly, and the Monthly Petroleum Statistics Report are: EIA Forms EIA-64 (Natural Gas Liquids Operations Report), EIA-87 (Refinery Report), EIA-88 (Bulk Terminals Report), EIA-89 (Pipeline Report), and EIA-90 (Crude Oil Stock Report); Economic Regulatory Administration (ERA) Forms ERA-60 (Imports) and FEA P133 (Imports from Puerto Rico); Bureau of the Census IM 145 (Imports), EM 522 (Exports), and EM 594 (Exports); U.S. Geological Survey (Crude Production); and State Conservation Agencies (Crude Production).

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Natural Gas

Total dry natural gas production, including nonhydrocarbon gases, in the United States during October 1982 was an estimated 1.5 trillion cubic feet (Tcf). This was 9.0 percent lower than in October 1981. Output during the first 10 months of 1982 totaled 15.0 Tcf, 7.6 percent lower than during the period January through October 1981.

Consumption of natural and supplemental gas in October 1982 was an estimated 1.4 Tcf, 10.6 percent lower than in October 1981. Estimated consumption during the first 10 months of 1982 totaled 14.7 Tcf, 6.4 percent less than during the comparable 1981 period.

Imports of natural gas in October 1982 were an estimated 80 billion cubic feet (Bcf), 1.3 percent higher than in the previous October. During the first 10 months of 1982, imports of natural gas totaled an estimated 779 Bcf, 7.0 percent more than during the comparable 1981 period. Receipts of foreign gas during October 1982 included Algerian liquefied natural gas equivalent to approximately 5 Bcf.

Domestic producer sales to major interstate pipelines in August 1982 (latest data available) totaled 793 Bcf, 8.2 percent lower than during the previous August. Total sales during the first 8 months of 1982 were 6.9 Tcf, 4.3 percent lower than during the comparable 1981 period.

Stocks of working gas* in underground natural gas storage reservoirs at the end of October 1982 totaled 3.4 Tcf. This was 3.5 percent above stocks available a year earlier and a record high for the beginning of the winter heating season (November through March). Net injections into storage during October 1982 were 128 Bcf, 23.1 percent higher than during the previous October.

Part '



Natural Gas

^{*}Gas available for withdrawal.

Natural Gas

		Production							
		Total Marketed¹	Total Dry²	Nonhydro- carbon Gases Removed	Supplemental Gaseous Fuels	Total Domestic Consumption ³	Imports	Exports	Domestic Producer Sales to Major Interstate Pipelines
					Billion cub	ic feet			
1973	TOTAL	22,648	21,731	NA	NA	22,049	1,033	77	12,067
1974	TOTAL	21,601	20,713	NA	NA	21,223	959	77	11,462
1975	TOTAL	20,109	19,236	NA	NA	19,538	953	73	10,652
1976	TOTAL	19,952	19,098	NA	NA	19,946	964	65	10,140
1977	TOTAL	20,025	19,163	NA	NA	19,521	1,011	56	9,883
1978	TOTAL	19,974	19,122	NA	NA	19,627	966	53	9,911
1979	TOTAL	20,471	19,663	NA	NA	20,241	1,253	56	10,496
1980	January	1,838	1.768	17	17	2,238	118	6	•
	February	1,725	1,659	16	16	2,147	108	5	981
	March	1,847	1,776	16	16	2,054	109	5	898
	April	1,686	1,622	15	12	1,535	77	3	958
	May	1,712	1,647	17	11	1,357	7 <i>7</i>	3	895
	June	1.602	1,541	15	10	1,255	61		851
	July	1,633	1,571	16	10	1,295	61	3	791
	August	1,592	1,531	16	10	1,282		3	822
	September	1,596	1,535	16	10		60	3	825
	October	1,663	1,600	14	12	1,299	60	5	797
	November	1,669	1,605	16	14	1,522	75	5	891
	December	1,816	1,747	18		1,761	88	3	900
	TOTAL	•			16	2,129	98	5	969
1981		20,379	19,602	195	155	19,877	985	49	10,578
1901	January	1,772	1,704	20	20	2,279	91	5	962
	February	1,591	1,530	17	17	1,894	85	5	869
	March	1,753	1,686	18	17	1,900	80	5	942
	April	1,692	1,627	17	14	1,489	69	5	900
	May	1,716	1,650	18	13	1,426	62	4	909
	June	1,653	1,590	19	12	1,309	65	5	877
	July	1,683	R1,618	20	12	1,315	66	5	889
	August	1,724	1,658	18	12	1,314	64	5	864
	September	1,595	1,534	18	12	1,266	67	6	869
	October	1,660	1,596	17	14	1,518	79	5	889
	November	1,600	1,539	17	15	1,619	82	5	904
	December	1,738	1,671	19	19	2,077	93	5	1.055
	TOTAL	20,178	19,403	217	176	19,404	904	59	10,929
1982	January	1,725	1,659	18	21	2,366	104	6	969
	February	1,583	1,522	18	18	1.967	94	5	901
	March	1,670	1,606	18	16 .	1,823	90	5	909
	April	1,575	1,515	17	13	1,472	77	4	853
	May	1,547	1,488	16	11	1,139	69	4	886
	June	1,500	1,442	15	10	1,121	67	4	814
	July	1,520	1,462	15	11	1,143	67	5	778
	August	R1,488	R1,431	R17	11	R1.153	64	3 4	778 793
	September	R1,443	R1,388	15	11	R1,158	R67	5	
	October	1,511	1,453	16	12	1,357	80	5	NA NA
						.,007	50	J	NA

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

Includes nonhydrocarbon gases removed such as carbon dioxide, riyurogen sumae, rigidal, and risagen as this section.

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

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

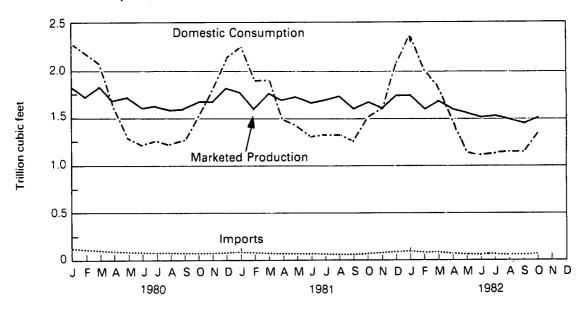
R = Revised data. NA = Not available.

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

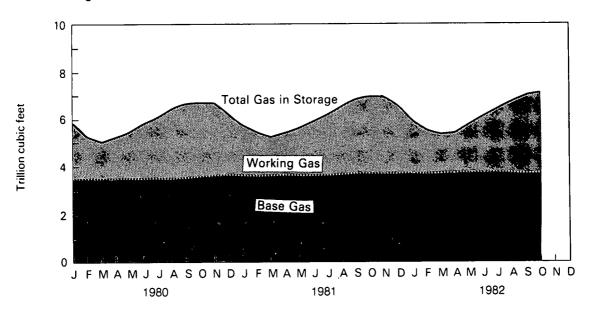
*Sources: • See the last page of this section.

Natural Gas

Domestic Consumption, Marketed Production, and Imports



Gas in Storage



Natural Gas

Natural Gas in Underground Storage¹

		Total Gas In Storage	Base Gas	Working Gas	Storage Injections	Storage Withdrawals	Net Storage Injections ²
				Billion c	ubic feet		injustions
1973	TOTAL	‡4,898	‡2,864	†2,034	NA	NA	NA .
1974	TOTAL	‡4,962	†2,912	‡ 2, 050	NA	NA NA	NA NA
1975	TOTAL	‡5,374	13,162	‡2,212	NA	NA NA	NA
1976	TOTAL	±5,250	±3,323	‡1,92 6	1,960	2,114	(154)
1977	TOTAL	‡5,866	±3,391	12,475	2,401	1,773	628
1978	TOTAL	16,020	3,473	‡2,54 7	2,338	2,186	151
1979	TOTAL	‡6,30 6	‡3,553	‡2,753	2,370	2,044	327
1980	January,	5,873	3,549	2,324	21	424	(403)
	February	5,402	3,550	1,852	24	451	· ,
	March	5,150	3,556	1,594	59	283	(427)
	April	5,275	3,584	1,691	167	65	(224)
	May	5,588	3,590	1,998	298	9	102
	June	5,895	3,596	2,299	293	-	289
	July	6,187	3,600	2,587	293 286	14	278
	August	6,462	3,608	2,854		19	267
	September	6,713	3,613	3,099	273	29	244
	October	6,805	3,619		240	<u>11</u>	229
	November	6,663	•	3,187	138	47	91
	December	6,297	3,637	3,026	65	188	(123)
		·	3,642	2,655	34	371	(337)
1981	January	5,795	3,642	2,152	37	558	(521)
	February	5,472	3,648	1,824	59	376	(317)
	March	5,285	3,654	1,631	55	R234	R(179)
	April	5,434	3,670	1,764	208	55	153
	May	5,660	3,684	1,977	255	26	228
	June	5,933	3,681	2,252	314	27	287
	July	6,205	3,649	2.556	335	26	309
	August	6,595	3,713	2,882	361	15	346
	September	6,872	3,720	3,152	287	9	277
	October	6,974	3,726	3,247	155	50	104
	November	6,931	3,731	3,200	80	124	(44)
	December	6,568	3,752	2,815	34	387	(353)
1982	January	5,932	3,751	2,181	24	673	(648)
	February	5,536	3,750	1.786	50	446	
	March	5,369	3,766	1,603	88	264	(396)
	April	5,452	3,777	1,675	180	107	(177)
	May	5,813	3,780	2,033	380	107	73 260
	June	6,146	3,777	2,368	350	11	369
	July	6,485	3,779	2,706	350 351		339
	August	6,781	3,780	3,001	328	12	339
	September	7.032	3,782	3,251	326 271	33 10	295
	October	7,147	3,785	3,362	188	19 59	251 100
		.,	0,100	0,002	100	29	128

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 quantitied 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 subsequently removed, and the other series excludes the nonhydrocarbon gases. carbon 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

Domestic Production: 1973 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Natural Gas" chapter; 1976 through 1979: Energy Information Administration (EIA), *Energy Data Report*, "Natural Gas Production and Consumption"; 1980 and 1981: EIA, *Natural Gas Annual*: January 1982 forward: State reports to the Interstate Oil Compact Commission, data from the 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.

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Oil and Gas Resource Development

The October 1982 rotary rig count of 2,402 was 44.8 percent lower than the October 1981 count (4,352). The 229 rigs operating offshore were 13.2 percent fewer than those working in October 1981.

Through October 1982, the reported number of cumulative total wells drilled was 70,474, a 15.5-percent increase from the 61,011 reported for the first 10 months of 1981. This increase in wells drilled does not parallel the declining trend in rotary rig activity. The divergence is principally caused by delays of up to several months in reporting wells drilled.

The reported oil well completions cumulated through October 1982 were 32,962, an 11.9-percent increase from the comparable 1981 figure (29,461 reported). During the first 10 months of 1982, 15,347 gas well completions were reported, an 11.8-percent increase from the comparable 1981 period (13,724 reported). Total reported footage drilled through October of this year increased 17.8 percent from the same period last year (330.5 million feet as compared with 280.5 million feet).

The count of 516 crews engaged in seismic exploration in October 1982 was 30.4 percent less than the count for October 1981. Onshore seismic activity in October 1982 was 465 crews, 32.5 percent lower than activity during October 1981. Offshore seismic activity in October 1982 was 51 crews, 1.9 percent lower than in October 1981.

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Oil and Gas Resource Development

		Rotary Rigs in Operation ¹		Exploratory and Development Wells Drilled ²			ment	Total Footage of Wells Drilled ²
		Monthly average		Oil	Gas	Dry	Total	Thousand feet
1973	AVERAGE	1,194	TOTAL	9,902	6,385	10,305	26,592	136,391
1974	AVERAGE	1,472	TOTAL	12,784	7,240	11,674	31,698	150,551
1975	AVERAGE	1,660	TOTAL	16,408	7,580	•	•	•
		ŕ		•	•	13,247	37,235	174,434
1976	AVERAGE	1,658	TOTAL	17,059	9,085	13,621	39,765	181,780
1977	AVERAGE	2,001	TOTAL	18,912	11,378	14,692	44,982	210,848
1978	AVERAGE	2,259	TOTAL	17,775	13,064	16,218	47,057	227,110
1979	AVERAGE	2,177	TOTAL	19,383	14,681	15,752	49,816	238,659
1980	January	2,571		1,436	782	1,240	3,458	16,475
	February	2,613		1,635	1,000	1,297	3,932	18,891
	March '	2,658		2,390	1,834	1,542	5,766	27,691
	April	2,682	1	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	1	2,228	1,282	1,451	4,961	24,479
	July	2,953	1	2,079	1,042	1,337	4,458	21,734
	August	3,045	1	2,357	1,275	1,539	5,171	24,112
	September	3,099	į	2,641	1,720	1,767	6,128	28,171
	October	3,148		2,417	1,190	1,697	5,304	24,600
	November	3,220		2,258	1,503	1,617	5,378	25,417
	December	3,286		3,685	1,910	2,257	7,852	34,161
	AVERAGE	2,909	TOTAL	27,026	15,730	18,089	60,845	284,461
1981	January	3,386		1,794	964	1,339	4,097	19,907
	February	3,502		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	ļ	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 October	4,242		3,414	1,978	2,014	7,406	33,630
	November	4,352 4,436		R3,772	R1,879	R2,099	R7,750	R35,520
	December	4,520		3,587	1,577	2,057	7,221	32,149
•	AVERAGE	3,970	TOTAL	4,581 37,671	2,572 1 7,894	3,055 22,973	10,208 78,538	48,275 361,407
1982	January	4,436		•	•	- -	•	•
1302	February	4,430		2,790 3,049	957 1,433	2,143 2,245	5,890 6,727	28,288
	March	3,816		3,049 3,750	1,433	2,245 2,499	6,727 7,736	32,085
	April	3,460		3,750	1,467	2,499 2,289	7,736 7,518	38,093 36,489
	May	3,178		3,459	1,948	2,209	7,622	36,469 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	1	2,848	1,575	1,903	6,326	28,556
	September	2,482		3,360	1,592	2,331	7,283	32,538
	October	2,402		2,838	1,220	2,136	6,194	27,447

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."

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Oil and Gas Resource Development

		Crews Engaged in Seismic Exploration			Line-Miles of Seismic Exploration			
		Offshore	Onshore	Total	Offshore ¹	Onshore ¹	Total	
		Мог	nthly average	9		Annual total		
1973	AVERAGE	23	227	250	258,944	127,160	386,104	
1974	AVERAGE	31	274	305	341,784	158,629	500,413	
1975	AVERAGE	30	254	284	309,283	150,694	459,977	
1976	AVERAGE	25	237	262	226,303	142,926	369,229	
1977	AVERAGE	27	281	308	124,676	120,072	244,748	
	AVERAGE	25	327	352	174,607	135,899	310,506	
1978					•	•		
1979	AVERAGE	30	370	400	193,212	163,929	357,141	
1980	January	29	439	468				
	February	29	440	469				
	March	29	448	477	1			
	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				
	November	41	531	572 580				
	December	40	540	580		404.000	7.0	
	AVERAGE	37	493	530	202,694	184,088	386,782	
1981	January	38	553	591				
	February	41	561	602				
•	March	40	570	610				
	April	40	605	645				
	May	42	619	661				
	June	44	652	696				
	July	43	668	711				
	August	46	689 697	735 744				
	September	47 50	689	744 741				
	October November	52 52	681	733				
	December	47	656	703 703				
	AVERAGE	44	637	681	338,201	256,201	594,402	
1982		53	642	695	000,201	200,201	004,402	
1902	January February	53 53	625	678				
	March	52	597	649				
	April	55 55	571	626				
	May	61	551	612				
	June	69	546	615				
	July	66	527	593				
	August	62	500	562				
	September	59	476	535				
	October	51	465	516				
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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 October 1982 was 69.2 million short tons, 18.8 percent less than the 85.2 million short tons produced in October 1981.

Electric utility coal consumption in September 1982 totaled 48.4 million short tons, 0.2 percent less than consumption in September 1981.

Electric utility coal stocks of 175.1 million short tons at the end of September 1982 were 25.6 million short tons (17.1 percent) above the level 1 year earlier.

Imports of coal in September 1982 totaled 71 thousand short tons. Exports of coal in September 1982 totaled 8.7 million short tons, 27.0 percent less than the amount exported during September 1981. Coal exports in September 1982 were principally to Canada (21.0 percent), Japan (14.4 percent), and Europe (51.6 percent).

Part 6

Coal

Coal Bituminous Coal, Lignite, and Anthracite

		Production	Domestic Consumption	Imports ¹	Exports ²	Stocks ³
			Tho	usand short tons		
1973	TOTAL	598,568	562,584	127	53,587	104,335
1974	TOTAL	610,023	558,402	2,080	60,661	96,323
1975	TOTAL	654,641	562,641	940	66,309	128,050
1976	TOTAL	684,913	603,790	1,203	60,021	134,438
1977	TOTAL	697,205	625,291	1,647	54,312	157,098
1978	TOTAL	670,164	625,225	2,953	40,714	145,551
1979	TOTAL	781,134	680,524	2,059	66,042	181,646
1980	January	69,594	63,517	121	4,460	179,450
	February	65,546	59,679	193	4,041	176,808
	March	70,953	58,852	93	5,633	176,649
	April	69,658	52,636	63	7,563	185,367
	May	71,043	52,834	207	8,597	193,920
	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	
1981	January	65,927	67,580	35	5,795	198,603
	February	70,918	59,735	104	6,771	197,962
	March	78,266	60,069	77	9,710	207,340
	April	36,253	54,649	63	8,271	187,143
	May	38,100	55,025	96	6,086	168,126
	June	61,555	59,685	138	6,158	158,274
	July	74,076	67,394	13	10,762	154,423
	August	78,782	65,896	150	11,315	157,141
	September	81,720	59,722	69	11,900	164,970
	October	85,241	59,161	94	12,360	175,384
	November	76,577	58,695	76	11,849	183,044
	December	76,360	65,017	127	11,564	185,274
	TOTAL	823,775	732,627	1,043	112,541	
1982	January†	66,073	69,177	71	6,177	173,833
	February†	70,002	59,751	30	8,964	173,193
	March†	82,668	58,243	12	10,423	179,171
	April†	72,706	53,267	10	10,831	186,458
	Mayt	70,262	54,839	109	10,110	192,926
	Junet	70,827	55,944	9	10,680	198,376
	July†	57,781	NA	69	9,182	NA
	August†	68,394	NA	10	7,385	NA NA
	September†	62,696	NA.	71	8,683	NA NA
	October†	69,223	NA NA	NA	0,003 NA	NA NA
		00,220	14/1	INO	INU	INM

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.

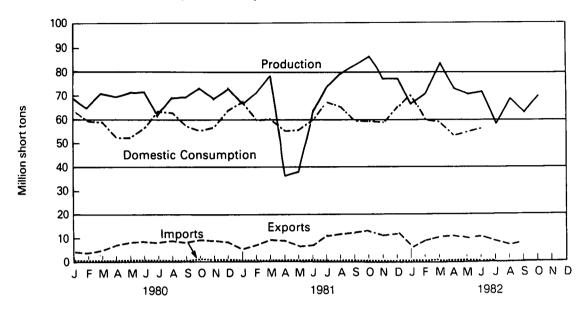
†Preliminary data. NA=Not available.

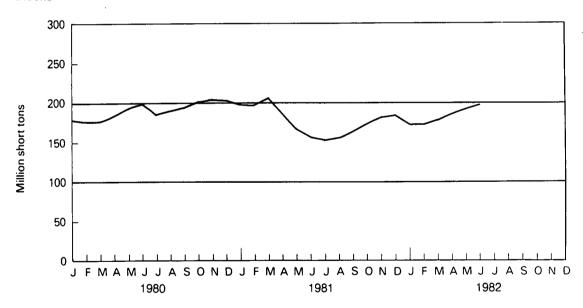
Sources: • See the last page of this section.

Coal

Bituminous Coal, Lignite, and Anthracite

Production, Consumption, Imports, and Exports





Coal Consumption—Bituminous Coal, Lignite, and Anthracite

Industrial

			moustrial			
		Electric Utilities	Coke Plants ¹	Other Industrial ² Including Transportation	Residential and Commercial	Total
				Thousand short tons	3	
1973	TOTAL	389,212	94,101	68,154	11,117	562,584
1974	TOTAL	391,811	90,191	64,983	11,417	558,402
1975	TOTAL	405,962	83,598	63,670	9,410	562,641
1976	TOTAL	448,371	84,704	61,799	8,916	603,790
1977	TOTAL	477,126	77,739	61,472	8,954	625,291
1978	TOTAL	481,235	71,394	63,085	9,511	625,225
1979	TOTAL	527,051	77,368	67,717	8,388	680,524
1980	January	50,371	6,339	5,944	864	63,517
	February	47,512	6,010	5,400	756	59,679
	March	46,685	6,429	5,199	539	58,852
	April	40,692	6,247	5,118	578	52,636
	May	41,464	6,127	4,894	349	52,834
	June	45,821	5,326	4,675	276	56,098
	July	53,655	4,903	4,222	342	63,122
	August	53,214	4,878	4,337	323	62,752
	September	47,913	4,794	4,170	429	57,306
	October	45,092	5,107	4,990	585	55,775
	November	45,698	5,152	5,331	619	56,799
	December	51,157	5,343	6,067	792	63,359
	TOTAL	569,274	66,657	60,347	6,451	702,730
1981	January	54,688	5,465	6,532	895	67,580
	February	47,914	5,177	5,932	712	59,735
	March	48,398	5,532	5,665	474	60,069
	April	43,677	4,862	5,548	562	54,649
	May	44,999	4,259	5,297	470	55,025
	June	50,080	4,460	4,845	300	59,685
	July	56,144	5,449	5,371	430	67,394
	August	54,483	5,434	5,520	459	65,896
	September	48,483	5,340	5,312	587	59,722
	October	47,800	5,158	5,577	626	59,161
	November	47,014	5,037	5,793	851	58,695
	December	53,116	4,842	6,003	1,056	65,017
	TOTAL	596,797	61,014	67,395	7,421	732,627
1982	January†	57,284	4,444	6,474	975	69,177
	February†	48,878	4,340	5,858	675	59,751
	March†	47,884	4,173	5,641	545	58,243
	April†	43,490	3,708	5,382	687	53,267
	May†	45,622	3,622	5,143	452	54,839
	June†	47,424	3,481	4,691	348	55,944
	July†	55,313 54,755	NA	NA	NA	NA
	August†	54,755	NA	NA	NA	NA
	September†	48,399	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. ¹Bituminous coal and anthracite only. Lignite is not used at coke plants. ²See Note on the last page of this section. †Preliminary data. NA = Not available. Sources: • See the last page of this section.

Coal

Stocks1—Bituminous Coal, Lignite, and Anthracite

			Ind	lustrial	_
		Electric Utilities	Coke Plants ²	Other Industrial	Total
			Thousar	nd 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	158,717	9,634	11,099	179,450
	February	157,124	9,263	10,421	176,808
	March	157,625	9,317	9,707	176,649
	April	165,817	9,579	9,971	185,367
	May	174,029	9,692	10,199	193,920
	June	178,959	9,913	10,427	199,299
	July	168,806	8,427	10,680	187,913
	August	171,891	7,866	10,932	190,689
	September	175,067	8,213	11,167	194,447
	October	182,045	8,488	11,442	201,975
	November	184,133	8,606	11,697	204,436
	December	183,010	9,067	11,951	204,028
1981	January	176,975	9,634	11,994	198,603
	February	175,715	10,211	12,036	197,962
	March	183,983	10,788	12,569	207,340
	April	169,221	6,952	10,970	187,143
	May	153,415	4,850	9,861	168,126
	June	144,520	4,500	9,254	158,274
	July	140,124	5,074	9,225	154,423
	August	142,318	5,648	9,175	157,141
	September	149,526	6,163	9,281	164,970
	October	159,676	6,308	9,400	175,384
	November	167,002	6,392	9,650	183,044
	December	168,893	6,475	9,906	185,274

Industrial

158,371

158,136

164,518

171,390

177,461

182,513

174,502

175,194

175,112

6,207

5,909

5,612

5,931

6.231

6,532

NΑ

NA

NA

9,255

9,148

9,041

9,137

9,234

9,330

NA

NA

NA

173,833

173,193

179,171 186,458

192,926

198,376

NA

NA

NA

1982 January†

February† March†

April†

May

Junet July†

August†

Septembert

Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
¹Stocks held by electric utilities, coke plants, and general industry at end of period.
²Bituminous coal and anthracite only. Lignite is not used at coke plants.
³Total 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

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

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

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

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

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

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

where S_b = beginning stocks

= 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 Δ S is equated to this figure.

Given the estimated quarterly consumption for the "Other Industrial" sector (C), the monthly consumption for the sector (Cm) 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."

- 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: 1974 Coal September 1975 Bureau of Mines, Minerals Yearbook and Mineral Industry Surveys; October 1975 Bureau of Mines (Mineral Industry Surveys)

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

Electric Utilities

September 1982 production of electricity by utilities was 180.7 billion kilowatt-hours, 3.3 percent lower than the September 1981 production level. Coal-fired production totaled 96.9 billion kilowatt-hours, 0.8 percent lower than the September 1981 level. Natural gasfired production totaled 27.7 billion kilowatthours, 10.3 percent below the September 1981 level. Nuclear production was 25.4 billion kilowatt-hours in September 1982, 4.1 percent above the September 1981 level. Hydroelectric production was 19.9 billion kilowatt-hours, 11.6 percent above the level 1 year earlier. Petroleum-fired production totaled 10.4 billion kilowatt-hours, 33.4 percent below the September 1981 level.

Sales of electricity to all ultimate consumers in the United States in September 1982 were 178.3 billion kilowatt-hours, 4.3 percent below September 1981 sales. Sales to residential consumers during September 1982 were 63.1 billion kilowatt-hours, 3.2 percent above the level of sales for the same month in 1981. Commercial sales were 48.1 billion kilowatt-hours, 2.3 percent more than the amount sold to commercial consumers in

September 1981. Sales to industrial consumers totaled 60.0 billion kilowatt-hours in September 1982, 15.5 percent less than the 1981 figure. In September 1982, other sales totaled 7.2 billion kilowatt-hours, 0.4 percent above the September 1981 level.

Electric utility petroleum consumption (excluding petroleum coke) during September 1982 was 17.5 million barrels, a 33.6-percent drop from the September 1981 level. Coal consumption for September 1982 was 48.4 million short tons, 0.2 percent below the September 1981 rate. During September 1982, consumption of natural gas by electric utilities was 293.2 billion cubic feet, 9.7 percent below the September 1981 consumption level.

On September 30, 1982, utility stocks of anthracite, bituminous coal, and lignite totaled 175.1 million short tons. Stockpiles were 17.1 percent above the level of September 1981. Petroleum stocks (excluding petroleum coke) on September 30, 1982, totaled 121.4 million barrels, 6.3 percent below the level on the same date in 1981.

Part 7

Electric Utilities

Electric Utilities

Net Electricity Production by Primary Energy Source

		Coal ¹	Petroleum ²	Natural Gas	Nuclear	Hydro	Other ³	Total
				Mil	lion kilowatt-ho	•	UU .	rotui
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	•	•		•	
1976	TOTAL	·	•	299,778	172,505	300,047	3,437	1,917,649
		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 December	93,501	19,989	24,338	20,984	19,217	520	178,550
		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 December	94,841	13,847	24,670	22,783	18,963	465	175,570
		106,608	15,772	22,877	25,997	23,879	457	195,590
1000	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 July	95,308 110,458	10,418	27,968	24,026	28,027	458	186,204
	August	110,458	13,382	33,339	25,467	27,412	485	210,543
	September	110,122 96,869	11,762	34,418	24,986	23,888	480	205,656
	Cepterriber	90,009	10,363	27,675	25,391	19,896	468	180,662

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."

Electricity Sales¹

		Residential	Commercial	Industrial	Other ²	Total
			Millio	n kilowatt-hours	5	
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
		68,611	45,525	65,531	6,215	185,882
	July	,	47,763	67,415	6,266	196,464
	August	75,020		69,570	6,572	190,139
	September	67,969	46,028	•	6,174	170,080
	October	54,014	40,479	69,413		•
	November	50,539	37,954	67,613	6,068	162,174
	December	60,775	39,846	68,517	6,469	175,607
	TOTAL	717,495	488,156	815,067	73,732	2,094,449
1981	January	74,087	43,229	67,076	7,557	191,949
	February	66,359	41,345	67,411	7,092	182,207
	March	57,660	39,541	68,590	7,035	172,826
	April	50,914	37,910	68,138	6,562	163,525
	May	48,348	39,331	68,714	6,780	163,173
	June	56,165	44,244	71,641	6,777	178,827
	July	69,990	48,989	71,712	7,124	197,814
	August	70,299	49,003	72,010	7,147	198,459
	September	R61,098	R46,977	R71,011	R7,164	R186,250
	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	R718,485	R511,272	R825,704	R82,753	R2,138,213
		•				192,079
1982	January	76,264	44,947	62,939	7,929	•
	February	69,128	43,459	62,778	7,441	182,805
	March	60,498	41,710	64,496	7,255	173,959
	April	54,918	40,036	62,723	6,836	164,512
	May	49,092	40,021	62,480	6,976	158,569
	June	54,083	44,206	63,684	6,766	168,739
	July	65,704	48,211	62,617	7,035	183,567
	August	69,906	49,720	63,306	6,808	189,740
	September†	63,053	48,068	59,980	7,194	178,296
	Coptombor	00,000	.0,000	22,220	.,	

Geographic coverage: the 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.

Freliminary 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."

Primary Energy Consumed to Produce Electricity

			Coa	l 			Petro	leum		Natural Gas
		Anthracite	Bituminous Coal	Lignite	Total	Steam	Gas Turb./ Int. Comb.	Total Liquids	Petroleum Coke	
			Thousand sh	ort tons		Tł	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	•	-	
1977	TOTAL	1,425	451,051	24,650		•	•	555,920	68	3,080,868
1978	TOTAL		•	•	477,126	574,869	48,837	623,705	98	3,191,200
		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 October	84	44,487	3,342	47,913	29,367	1,286	30,653	11	357, 286
	November	73 56	41,819	3,200	45,092	26,269	689	26,958	8	301,266
	December	56 89	42,379	3,263	45,698	32,782	1,320	34,102	7	255,559
			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 September	95 67	50,200	4,460	54,755	19,511	420	19,931	13	361,313
	Sehreimai	0/	44,416	3,916	48,399	17,146	318	17,464	9	293,232

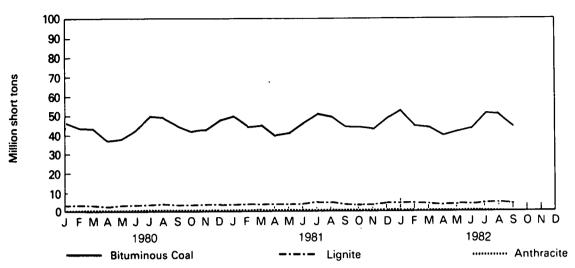
Geographic coverage: the 50 United States and District of Columbia.

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

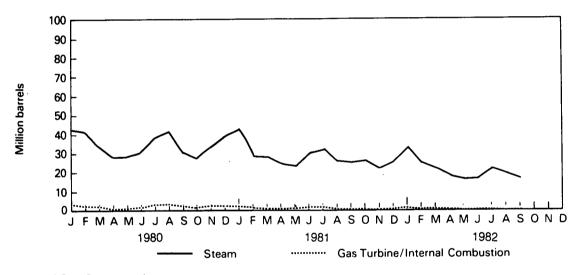
Source: • Energy Information Administration Form 759, "Monthly Power Plant Report."

Primary Energy Consumed to Produce Electricity

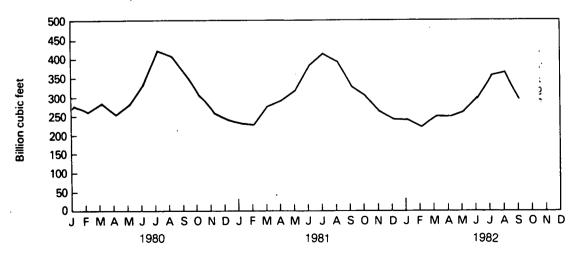
Coal Consumption



Petroleum Consumption



Natural Gas Consumption



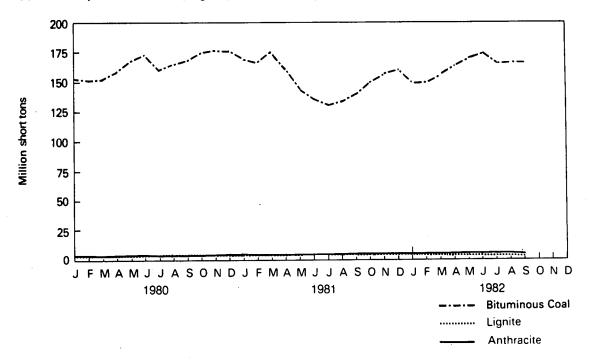
End-of-Month Coal and Petroleum Stocks

Petroleum Pet				Co	al 			Int. Comb. Liquid Thousand barrels \$\frac{10,095}{15,199} \frac{189,21}{112,91} \$\frac{16,432}{14,703} \frac{121,69}{121,69} \$\frac{19,281}{19,281} \frac{144,03}{144,03} \$\frac{16,386}{19,201} \frac{131,42}{131,42} \$\frac{19,597}{19,055} \frac{130,40}{130,40} \$\frac{19,597}{19,055} \frac{130,40}{130,40} \$\frac{19,597}{19,055} \frac{130,40}{130,40} \$\frac{19,597}{19,201} \frac{138,02}{138,02} \$\frac{19,273}{143,45} \frac{142,52}{19,273} \frac{142,52}{143,45} \$\frac{18,150}{18,660} \frac{140,30}{140,30} \$\frac{18,398}{18,398} \frac{142,44}{18,051} \frac{137,91}{18,147} \frac{135,37}{135,37} \$\frac{18,199}{18,147} \frac{128,73}{17,315} \frac{130,19}{17,421} \frac{128,91}{17,957} \frac{17,957}{129,24} \$\frac{17,073}{17,957} \frac{129,24}{17,957} \frac{127,33}{16,860} \frac{127,333}{16,801} \frac{130,81}{130,81}		n	
1973			Anthracite		Lignite	Total	Steam			Petroleum Coke	
1974				Thousand sh	ort tons		TI	housand barrel	s		
1974	1973		‡1,066	‡84,941	‡ 96 1	‡86,967	‡ 79,121	‡10,095	189,216	±312	
1975	1974		‡930	‡81,712	‡867	‡83,509	197,718	±15,199	1112.917	•	
1976	1975		1982	1107,927	11,815		•	•		•	
1977	1976		•	•	•	• •	•	• •	•	-	
1978	1977		• •	•	•	•		• •		•	
1979 13,274 1152,981 13,459 1159,714 111,121 120,301 131,422 1183 1980 January 3,371 151,891 3,455 156,717 114,313 19,597 133,909 175 February 3,451 150,151 3,522 157,124 111,353 19,055 130,409 168 March 3,488 151,022 3,116 157,625 116,246 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 66 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 17,975 127,945 49 July 5,269 129,684 5,171 140,124 110,476 16,686 127,332 48 August 5,337 132,072 4,909 142,318 114,016 16,601 130,817 47 September 5,428 138,808 5,290 149,526 112,992 16,515 128,506 46 October 5,512 148,922 5,213 159,676 110,903 15,756 128,196 44 April 5,542 161,720 4,4097 153,415 110,4921 15,014 119,935 39 February 5,401 148,118 4,617 158,136 103,055 14,775 117,893 49 July 5,568 164,687 4,167 158,139 112,380 15,756 128,196 44 April 5,542 161,720 4,409 142,318 114,016 16,801 130,817 47 September 5,488 154,724 4,305 164,518 107,718 14,301 122,018 43 April 5,542 161,720 4,128 177,130 105,604 14,274 119,877 42 May 5,599 166,805 4,088 177,461 105,278 14,407 119,685 41 June 5,603 172,819 4,092 182,513 100,617 14,193 119,956 43 August 5,791 165,162 4,221 175,194 106,171 13,787 119,958 42	1978		• •	•	•	•		• •	•	-	
1980 January 3,371 151,891 3,455 158,717 114,313 19,597 133,909 175			• •	•	• •	•			•	•	
February 3,451 150,151 3,522 157,124 111,353 19,055 130,409 168 March 3,488 151,022 3,116 157,625 116,246 18,934 135,180 154 April 3,553 158,441 3,843 166,817 118,824 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 3,691 168,006 121,596 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 18,396 142,445 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 4,478 189,983 111,490 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 5,269 129,664 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 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 100,939 16,077 127,016 43 December 5,569 167,805 4,088 177,461 105,278 14,407 119,865 41 J		•	•		• •	•	Į111,121	‡20,301	‡131,422	‡183	
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 3,891 168,806 121,556 18,860 140,276 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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 149,952 5,213 159,676 110,939 16,077 127,016 43 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 April 5,542 161,720 4,128 173,90 105,604 14,274 119,897 126,855 41 April 5,542 161,720 4,128 177,461 105,278 14,407 119,895 41 July 5,669 167,805 4,088 177,461 105,278 14,407 119,895 41 July 5,669 167,805 4,088 177,461 105,278 14,407 119,895 41 July 5,669 166,862 4,088 177,461 105,278 14,407 119,895 41 July 5,669 166,867 4,177 158,139 105,604 14,274 119,807 42 May 5,569 167,805 4,088 177,461 105,278 14,407 119,895 41 July 5,669 166,862 4,261 177,990 105,604 14,274 119,807 42 May 5,569 167,805 4,088 177,461 105,278 14,407 119,895 41 July 5,669 166,867 4,175 175,194 106,171 13,787 119,986 42	1980		•		•		•	19,597	133,909	175	
April 3,533 158,441 3,843 165,617 118,824 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 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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 136,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 Polember 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 14,274 119,855 41 April 5,569 167,805 4,088 177,461 105,278 14,407 119,685 41 August 5,569 167,805 4,088 177,461 105,278 14,407 119,865 41 April 5,569 167,805 4,088 177,461 105,278 14,407 119,865 41 August 5,569 167,805 4,088 177,461 105,278 14,407 119,865 41 August 5,569 167,805 4,088 177,461 105,278 14,407 119,865 41 August 5,569 167,805 4,088 177,461 105,278 14,407 119,865 41 August 5,569 167,805 4,088 177,461 105,278 14,407 119,865 41 August 5,791 146,676 4,157 174,502 105,574 13,913 121,861 43 August 5,791 166,182 4,221 175,194 106,171 13,787 119,858 42		•	• • • • • • • • • • • • • • • • • • •			•		19,055	130,409	168	
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 4,859 166,552 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 5,428 138,808 5,290 149,526 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,542 161,720 4,828 158,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,468 4,474 174,501 105,278 14,407 119,685 41 June 5,603 172,819 4,092 182,513 107,947 13,913				•			116,246	18,934	135,180	154	
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 42 1982 January 5,517 148,227 4,628 158,371 104,921 15,014 119,935 39 February 5,603 172,819 4,092 182,513 107,718 14,301 122,018 43 April 5,542 161,720 4,128 171,390 105,604 14,274 119,877 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 14,407 119,685 41 July 5,668 164,687 4,157 174,502 105,374 14,583 119,956 43 August 5,591 165,182 4,221 175,194 106,171 13,787 119,958		•				•		19,201	138,025	103	
July 3,955 161,159 3,691 166,806 121,596 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 5,269 129,664 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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 April 5,542 161,720 4,128 171,390 105,604 14,274 119,935 39 February 5,507 148,227 4,628 158,371 104,921 15,014 119,935 39 February 5,517 148,227 4,628 158,371 104,921 15,014 119,935 39 February 5,508 161,720 4,128 171,390 105,604 14,274 119,885 41 June 5,603 172,819 4,092 182,513 107,947 13,913 121,861 43 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 42						•	•	19,485	142,529	69	
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 18,199 128,792 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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 Panuary 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 5,663 172,819 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 5,791 166,182 4,221 175,194 106,171 13,787 119,958 42							124,177	19,273	143,450	65	
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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 June 5,603 172,819 4,092 182,513 107,947 13,913 121,861 43 June 5,603 172,819 4,092 182,513 107,947 13,913 121,861 43 June 5,603 172,819 4,092 182,513 107,947 13,913 121,866 43 June 5,603 172,819 4,092 182,513 107,947 13,913 121,866 43 June 5,603 172,819 4,092 182,513 107,947 13,913 121,866 43 June 5,603 172,819 4,092 182,513 107,947 13,913 121,866 43 June 5,603 172,819 4,092 182,513 107,947 13,913 121,866 43 June 5,603 172,819 4,092 182,513 107,947 13,913 121,866 43 June 5,603 172,819 4,092 182,513 107,947 13,913 121,866 43 June 5,603 172,819 4,092 182,513 107,947 13,913 121,866 43 June 5,603 172,819 4,092 182,513 107,947 13,913 121,866 43 June 5,603 172,819 4,092 182,513 107,94			,						140,276	65	
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,488 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,488 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,488 154,724 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 4,088 177,461 105,278 144,007 119,685 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		•							136,664	63	
November 4,661 175,489 3,983 184,133 119,863 18,051 137,915 53 19,000 117,227 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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,569 167,805 4,088 177,461 105,278 14,407 119,865 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 December 5,600 172,819 4,092 182,513 107,947 13,913 121,861 43 December 5,600 172,819 4,092 182,513 107,947 13,913 121,861 43 December 5,600 172,819 4						,				61	
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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 August 5,791 165,182 4,221 175,194 106,171 13,787 119,958 42			.,				•				
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 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											
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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 14,553 119,956 43 August 5,791 165,182 4,221 175,194 106,171 13,787 119,958 42		December	4,741	174,154	4,115	183,010	117,227	18,147	135,374	52	
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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	1981	January	4,824	167,884	4,267	176.975	110.533	18.199	128 732	51	
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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		February	4,859	166,552	4,304						
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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 5,669 167,805 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			4,951	174,554	4,478	183,983		•			
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 16,8601 130,817 47 September 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 42 1982 January 5,517 148,227 4,628 158,371 104,921					4,541	169,221	•				
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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				143,500	4,907	153,415	112,172				
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 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,990 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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 </td <td></td> <td></td> <td></td> <td>134,321</td> <td>5,119</td> <td>144,520</td> <td>109,988</td> <td>•</td> <td></td> <td></td>				134,321	5,119	144,520	109,988	•			
September 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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						140,124	110,476	16,856	127,332		
September 5,428 138,808 5,290 149,526 112,992 16,515 129,506 46 October 5,512 148,952 5,213 159,676 110,900 16,164 127,063 44 November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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						142,318	114,016	16,801	130,817	47	
November 5,548 156,360 5,094 167,002 110,939 16,077 127,016 43 December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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			•			149,526	112,992	16,515	129,506		
December 5,537 158,258 5,098 168,893 112,380 15,756 128,136 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			•				110,900	16,164	127,063		
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			•	•	•			16,077	127,016	43	
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		December	5,537	158,258	5,098	168,893	112,380	15,756	128,136	42	
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	1982	January	5,517	148,227	4.628	158.371	104 921	15.014	110 035	20	
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		February	5,401	148,118	4,617						
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 September 5,895 464,050 4,221 175,194 106,171 13,787 119,958 42			5,488	154,724	4,305	164,518			•		
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				161,720	4,128	171,390					
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 Sontomber 5,895 464,050 4,221 175,194 106,171 13,787 119,958 42						177,461				_	
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							107,947	•			
August 5,791 165,182 4,221 175,194 106,171 13,787 119,958 42					•		105,374	14,583	•		
September 5,896 164,953 4,264 175,112 107,492 13,898 121,390 47		•	•			•	106,171	13,787			
		şeptember -	5,896	164,953	4,264	175,112	107,492	13,898	121,390	47	

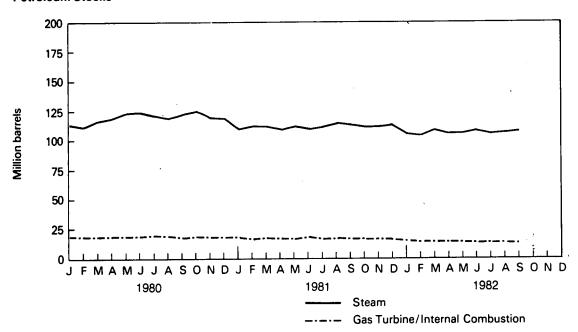
Geographic coverage: the 50 United States and District of Columbia.
Totals may not equal sum of components due to independent rounding.
‡Total as of December 31.
Source: • Energy Information Administration Form 759, "Monthly Power Plant Report."

End-of-Month Coal and Petroleum Stocks

Coal Stocks (Bituminous Coal, Lignite, and Anthracite)



Petroleum Stocks



Nuclear

During September 1982, U.S. nuclear powerplants generated a total of 25.4 billion net kilowatt-hours of electricity, equivalent to a daily output of 846.4 million net kilowatt-hours. This was 5.0 percent above the daily average net generation for August 1982 and 4.1 percent above the comparable output for September 1981. Nuclear power accounted for 14.1 percent of the electricity generated by domestic utilities in September 1982, the highest share of electricity demand met by nuclear power to date.

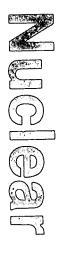
On September 7, the Nuclear Regulatory Commission issued a full power operating license to Southern California Edison Company and San Diego Gas and Electric Company for joint operation of San Onofre-2. This pressurized water reactor has a net design electrical rating of 1,100 megawatts (MWe). As of September 30, 1982, there were 79 licensed U.S. power reactors with a combined capacity of 60,501 MWe (see note 2 on page 77). Of these 79 units, 3 were in startup or low-power testing (Grand Gulf-1, Summer-1, and Susquehanna-1), 2 were in power ascension (LaSalle-1 and San Onofre-2), and 14 generated no electricity or operated substantially below capacity in September (Arkansas-1, Browns Ferry-2, Brunswick-1, Brunswick-2, Cook-1, Indian Point-3, La Crosse, Monticello, Nine Mile Point-1, North Anna-1, Oconee-3, Quad Cities-1, San Onofre-1, and Three Mile Island-1).

In September, Portland General Electric formally cancelled Pebble Springs-1 and Pebble Springs-2, twin 1,260-MWe pressurized water reactors for which construction permits had been pending for some time. In addition, the nuclear reactor status table on page 76 has been corrected to reflect the cancellation in July 1982 of both Phipps Bend units, two 1,233-MWe boiling water reactors. As of September 30, the number of nuclear powerplants in all stages of planning, construction, or operation stood at 148 units, with an aggregate capacity of 138.4 million net kilowatts (GWe). During the first 9 months of 1982, a total of 15 units with a potential aggregate capacity of 18.5 GWe were cancelled.

On September 27, Big Rock Point, a 63-MWe boiling water reactor, completed its 20th year of operation. This unit has been in steady service longer than any other boiling water reactor in the world. In fact, Big Rock Point appears to be improving with age. In 1981, it had an availability factor of 91 percent, its best annual availability since it began operating in 1962.







Nuclear

Nuclear Powerplant Operations

		Reactors Licensed For Commercial Operations ¹	Nuclear-Based Electricity Generation ²	Nuclear Portion of Domestic Electricity Generation	Maximum Dependable Capacity ¹	Capacity Factor ³
			Million net kilowatt-hours	Percent	Million net kilowatts	Percent
1973	AVERAGE	40	83,479	4.5	13.850	63.2
1974	AVERAGE	53	113,976	6.1	29.921	43.5
1975	AVERAGE	56	172,505	9.0	35.671	55.2
1976	AVERAGE	62	191,104	9.4	40.642	53.5
1977	AVERAGE	67	250,883	11.8	45.554	62.9
1978	AVERAGE	71	276,403	12.5	49.385	63.9
1979	AVERAGE	71	255,155	11.4	50.604	57.6
1980	January	68	19,746	9.9	48.669	54.5
	February	69	19,277	10.2	50.617	56.0
	March	69	20,039	10.7	50.606	53.2
	April	71	18,794	11.1	52.572	49.7
	May	71	18,385	10.5	52.574	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
	October	72	24,510	13.7	53.180	61.9
	November	72	20,984	11.8	53.031	55.0
	December	72	22,130	11.3	52.597	56.6
	AVERAGE	71	251,116	11.0	51.941	55.1
1981	January	73	23,779	11.5	54.374	58.8
	February	73	21,595	12.0	54.372	59.1
	March	73	22,004	11.9	54.429	54.3
	April	73	20,646	12.0	54.095	53.1
	May	73	19,723	11.1	54.074	49.0
	June	74	21,166	10.4	55.214	53.2
	July	74	23,080	10.5	54.998	56.4
	August	74	26,946	12.8	54.820	66.1
	September	75	24,398	13.1	56.974	60.5
	October	75	20,556	11.3	56.412	48.9
	November	74	22,783	13.0	55.328	57.2
	December	74	25,997	13.3	55.524	62.9
	AVERAGE	74	272,674	11.9	55.051	56.6
1982	January	74	25,678	12.2	55.471	62.2
	February	75	20,188	11.2	56.608	53.1
	March	75	22,756	12.1	56.609	54.0
	April	76	21,785	12.6	57.415	52.8
	May	76	21,639	12.2	57.428	50.6
	June	7 7	24,026	12.9	58.559	57.0
	July	78	25,467	12.1	59.600	57.4
	August	79	24,986	12.1	R60.521	55.5
	September	79	25,391	14.1	60.501	58.3

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

¹See Note 2 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.

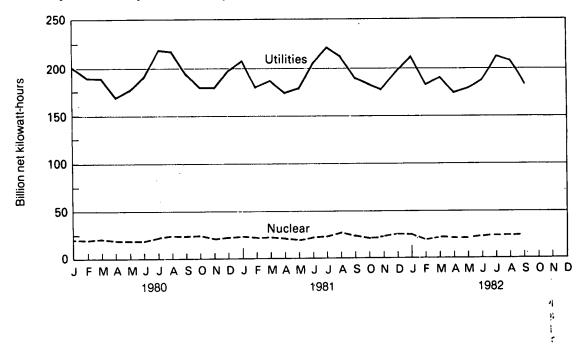
R = Revised data.

Sources: • See the last page of this section.

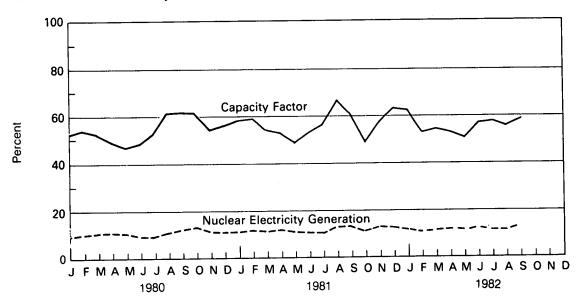
Nuclear

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		
1978		71	90			-	221	220
1979				32	9	4	206	204
		71	91	21	3	0	186	180
1980	January	68	90	17	3	0	178	173
	February	69	89	16	3	Ö	177	172
	March	69	87	14	3	ŏ	173	168
	April	71	85	14	3	ŏ	173	168
	May	71	85	14	3	ŏ	173	
	June	71	85	14	3	ŏ		168
	July	71	85	14	3	0	173	168
	August	71	85	14	3	_	173	168
	September	71	85	14		0	173	168
	October	72	84		3	0	173	168
	November	72	82	14	3	Ō	173	168
	December	72 72		14	3	0	171	166
1001			82	12	3	0	169	163
1981	January	73	81	12	3	0	169	163
	February	73	81	12	3	Ö	169	163
	March	73	81	12	3	ŏ	169	163
	April	73	81	12	3	ŏ	169	163
	May	73	81	12	š	ŏ	169	
	June	74	80	12	3	0		163
	July	74	80	12	3	ő	169	163
	August	74	79	12	3		169	163
	September	75	78	11		0	168	162
	October	75	77	11	3	0	167	161
	November	74	78	11	3	0	166	160
	December	74	75		3	0	166	160
1982		• •		11	3	0	163	157
1902	January	74	73	11	3	0	161	154
	February	75	72	6	2	0	155	147
	March	75	72	6	2	Ö	155	147
	April	76	71	6	2	Ŏ	155	147
	May	76	71	6	2	ŏ	155	147
	June	77	70	6	2	ŏ	155	147
	July	78	R67	ě	2	Ŏ	R153	
	August	79	R64	5	2	0		R145
	September	79	64	3	2	0	R150	R141
	• • • • • •	, •	•	J	2	U	148	138

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 Note 3 on the last page of this section.

²Entries in this column are based on the net design electrical ratings which are defined in note 1 on the last page of this section.

R=Revised data.

Sources: • See the last page of this section.

Notes and Sources for the Nuclear Section

Notes

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

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

(a) Design Capacity or Design Electrical Hating (DEH), Net—The nominal net electrical output of the unit, as specified by the utility for the purpose of plant design.

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

(c) Maximum Dependable Capacity (MDC), Net—The gross MDC less the nominal station service load. The nominal station service load for a nuclear plant is about 5 percent of its gross generation.

(d) Thermal Capacity—The rate of heat production by the reactor core. The Nuclear Regulatory Commission (NRC) authorizes a maximum thermal power rating for U.S. reactors.

2. Nuclear Powerplant Operations: For most reactors the net MDC is used. Where the net MDC is not available, the net DER is used. Starting with January 1980 entries, the restricted capacity of "derated" units (i.e., units for which the NRC or the operating utility has imposed a "power limit") is used in place of either the net MDC or net DER to provide a more realistic estimate of true available capacity. See also Note 3.

3. Status of Nuclear Reactor Units: Although net MDC is a more realistic measure of a reactor's capacity, net DER is used in

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

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 of Cool. Nuclear Electric and Alternate Fuels. 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 \$28.08 per barrel in September 1982. This was 0.4 percent below the previous month's level and 9.8 percent below the level in September 1981.

During September 1982, the composite refiner acquisition cost of crude oil was \$31.39 per barrel, \$0.06 per barrel (0.2 percent) below the previous month's price of \$31.45. The price of imported crude oil increased \$0.07 per barrel from the August 1982 level to \$33.02 per barrel in September. This price was 6.8 percent below the September 1981 level. The price of domestic crude oil in September 1982 was \$30.71, a decrease of \$0.14 per barrel from the August 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 September 1982 was \$28.45 per barrel, \$0.01 per barrel above the previous month's price but 6.2 percent below the September 1981 average. The average price, excluding taxes, of No. 6 residual fuel oil sold to resellers, bulk plants, jobbers, and other wholesale accounts in September 1982 was \$26.65 per barrel, \$0.31 (1.2 percent) above the August 1982 average and 1.7 percent above the September 1981 average.

Heating Oil

The national average price of heating oil sold to residential customers in September 1982 was 114.8 cents per gallon. This was 0.9 percent below the selling price in August 1982 and 4.1 percent below the September 1981 price. The average distributor margin

on residential heating oil in September was 15.8 cents per gallon, 8.1 percent below the margin during September 1981. The refiners' national average selling price to resellers and retailers was 93.7 cents per gallon in September 1982, 4.2 percent below the September 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 September 1982 was 95.1 cents per gallon, a decrease of 0.3 percent from the previous month's average and a 7.9-percent decrease from the September 1981 average.

Motor Gasoline

The national average retail price of all grades and all types of motor gasoline was 128.0 cents per gallon in October 1982. Leaded regular gasoline at all types of stations sold for an average of 121.9 cents per gallon in October, 1.7 cents (1.4 percent) lower than the price in September. The price of unleaded regular gasoline at all types of stations was 129.5 cents per gallon in October, 1.3 cents (1.0 percent) lower than the price in September.

Liquefied Petroleum Gases

The average wholesale price of propane during September 1982, excluding taxes, was 49.5 cents per gallon, 13.0 percent above the previous month's level and 3.8 percent above the September 1981 level.

In September 1982, the average wholesale price of butane, excluding taxes, was 77.6 cents per gallon, 7.5 percent above the previous month's price and 20.1 percent above the September 1981 average.

Part 9



Price Petroleum Price Summary

		Actual Domestic Average	Refiner /	Acquisition Cost o	of Crude Oil ²	No. 6 Resid	lual Oil Price
		Weilhead Price ¹	Domestic	imported	Composite	Ave Wholesale•	rage³ Retail⁴
				Dollars per b	arrel		
1976	AVERAGE	8.19	8.84	13.48	10.89	10.72	11.49
1977	AVERAGE	8.57	9.55	14.53	11.96	11.96	13.23
1978	AVERAGE	9.00	10.61	14.57	12.46	11.51	12.75
1979	AVERAGE	12.64	14.27	21.67	17.72	17.66	18.67
1980		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	25.00 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	04.00		
	February	34.14	36.27	39.00	34.86	31.14	33.65
	March	34.70	36.97	38.31	37.28	31.81	36.04
	April	34.05	35.58	38.41	37.48	31.78	36.11
	May	32.71	35.21	37.84	36.58	30.56	34.70
	June	31.71	34.20	37.0 4 37.03	36.11	30.41	34.11
	July	31.13	33.76	36.58	35.03	25.95	31.03
	August	31.13	33.79	35.82	34.70	26.52	30.57
	September	31.13	33.47	35.44	34.46	27.01	30.52
	October	31.00	33.48	35.43	34.11	26.20	30.33
	November	30.98	33.49	36.21	34.07	26.78	30.32
	December	30.72	33.51	35.95	34.33	27.99	30.16
	AVERAGE	31.77	34.33	37.05	34.33 35.24	27.26 28.86	30.90
1982	January	30.87				20.00	32.50
1302	February	30.87 29.76	33.39	35.54	33.95	27.07	29.83
	March	29.76 28.31	32.71	35.48	33.40	26.29	30.02
	April		31.08	34.07	31.81	25.73	29.50
	May	27.65	30.27	32.82	30.83	25.46	28.21
	June	27.67	30.37	32.78	31.02	26.52	28.93
	July	28.11	30.79	33.79	31.74	26.62	29.59
	August	28.33	30.92	33.44	31.74	25.97	29.33
	Septembert	28.18 28.08	R30.85	R32.95	R31.45	26.34	R28.44
	October	26.06 NA	30.71	33.02	31.39	26.65	28.45
		17/3	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, excludes tax.

See additional footnotes on the following page.

Price Petroleum Price Summary (continued)

		No. 2 Dies Avers		No. 2 Heatir Aver	•	Gasoline Price Average All Types ^e	Propane Price Average ⁷	Butane Price Average ⁷
		Wholesale ⁴	Retail*	Wholesale	Retail	Retail	Wholesale ⁴	Wholesale ⁴
					Cents per gallo	on		
1976	AVERAGE	31.9	34.7	32.6	40.6	NA	20.6	21.9
1977	AVERAGE	36.1	39.3	36.9	46.0	NA	25.0	25.4
1978	AVERAGE	37.1	40.2	38.7	49.4	65.2	24.0	23.0
1979	AVERAGE	58.2	62.4	53.0	65.6	88.2	29.5	45.8
1980	January	76.0	82.2	75.2	90.8	111.0	41.8	73.3
	February	78.3	85.0	79.0	95.3	118.6	42.7	70.1
	March	79.8	87.8	80.4	97.1	123.0	41.0	66.8
	April	80.4	88.0	81.0	97.4	124.2	41.2	63.1
	May	80.5	87.8	81.4	97.2	124.4	41.7	63.7
	June	81.7	88.6	82.5	97.9	124.6	41.2	58.2
	July	81.9	87.6	83.0	97.9	124.7	40.8	53.8
	August	81.6	86.9	82.9	97.9	124.3	40.6	53.1
	September	80.3	86.6	83.0	98.1	123.1	41.4	51.2
	October	81.5	85.9	83.7	98.7	122.3	43.2	54.3
	November	83.6	88.9	86.1	101.1	122.2	45.1	65.5
	December	87.5	92.4	91.3	106.5	123.1	46.5	72.7
	AVERAGE	81.2	87.3	82.2	97.8	122.1	42.4	62.9
1981	January	92.5	100.9	98.6	114.4	126.9	46.5	66.1
1901	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
		101.7	107.7	105.2	123.9	138.1	49.3	60.1
	April	101.3	106.8	104.0	122.7	137.0	48.6	56.8
	May	99.5	106.6	103.0	120.9	136.2	46.0	52.7
	June		103.8	102.7	121.0	135.3	46.0	56.5
	July	98.8	105.9	102.7	119.4	134.8	47.2	60.6
	August	97.8	104.8	101.6	119.7	135.8	47.7	64.6
	September	97.6	105.3	101.0	118.8	135.3	47.3	64.7
	October	97.4		102.3	120.8	135.1	47.5	61.6
	November	98.3	105.2 105.1	102.6	122.0	134.8	45.5	55.4
	December	98.3						60.4
	AVERAGE	98.5	106.2	102.6	120.5	135.3	47.2	
1982	January	98.0	105.3	101.5	122.0	134.1	43.1	51.8
	February	94.8	103.2	98.3	120.7	131.8	38.3	48.9
	March	90.2	98.0	91.3	115.3	126.8	35.7	49.6
	April	86.6	96.1	90.0	113.2	121.0	34.9	56.1
	May	89.1	97.6	95.1	114.3	122.4	35.4	65.6
	June	93.5	102.2	98.5	116.2	129.6	36.9	67.9
	July	93.4	101.1	. 98.6	115.8	131.8	39.7	69.7
	August	92.3	R99.3	R96.7	R115.9	131.0	R43.8	72.2
	September	†92.4	†98.5	†97.8	†114.8	129.5	†49.5	†77.6
	October	NA	NA	` NA	NA	128.0	NA	NA

Footnotes continued.

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

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

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

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

1976 AVERAGE 13.05 1977 AVERAGE 14.36 1978 AVERAGE 14.10 1979 AVERAGE 20.65 1980 January 33.67	12.76 13.57 13.64	11.61 12.67	12.55	Dollars	per barrel			Kingdom	Venezuela
1977 AVERAGE 14.38 1978 AVERAGE 14.10 1979 AVERAGE 20.65 1980 January 33.67	13.57		12.55		יים וומר יים				
1978 AVERAGE 14.10 1979 AVERAGE 20.65 1980 January 33.67		12.67		NA	13.08	11.69	11.94	NA	11.32
1979 AVERAGE 20.65 1980 January 33.67	13.64		13.90	13.42	14.44	12.37	12.83	NA	12.68
1980 January 33.67		12.65	13.75	13.24	14.04	12.70	13.24	13.82	12.45
50.07	19.35	23.71	22.43	20.29	21.80	17.63	19.58	21.20	17.37
Cohmuna.	29.67	29.28	35.72	29.43	31.57	26.25			
February 34.03	31.11	NA	35.71	31.77	33.39	26.23 26.62	29.85	30.77	25.34
March 36.74	31.54	(²)	35.88	30.56	35.59		30.95	32.66	24.82
April 36.93	32.22	(²)	35.30	30.24		26.85	29.34	34.34	24.03
May 37.10	32.40	(²)	36.13	30.68	36.11	27.78	30.38	34.15	23.85
June 37.61	32.90	(²)	36.83	30.76	36.50	28.50	32.67	34.10	24.82
July 38.40	33.19	(²)	37.26		36.99	28.95	33.34	36.28	25.56
August 37.53	33.01	(²)		31.84	37.17	28.47	NA	36.26	24.34
September 37.21	33.13	(-)	37.01	31.87	36.69	29.74	NA	34.83	25.30
October 37.60	32.31	(2)	36.94	31.21	36.38	30.34	NA	35.18	24.21
November 37.05	32.94	(2)	37.15	31.27	36.82	30.19	NA	35.66	22.71
December 37.37	32.9 4 33.21	(²)	36.90	31.59	36.87	31.43	NA	35.47	26.83
		(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	(2)	40.73	36.57	40.03	32.60	NA	39.41	32.67 30.36
March 40.30	36.40	(²)	40.25	35.60	39.85	32.73	NA	39.50	31.24
April 39.70	36.38	(²)	40.04	33.81	39.92	32.41	NA	38.85	
May 39.57	36.09	(2)	38.91	34.45	39.11	32.13	NA NA		29.93
June 39.20	36.95	(2) (2)	39.85	30.30	38.44	32.42	NA NA	37.16	28.39
July 38.06	35.47	(²)	38.70	32.72	39.25	32.07	NA NA	35.84	30.50
August 39,34	35.61	(²)	39.45	31.23	39.55	31.95		34.89	29.25
September 39.60	35.82	(2)	36.74	30.37	36.04	32.09	NA	34.38	27.08
October 36,90	35.08	(2)	36.36	30.83	35.45		NA	34.44	28.14
November 36.55	35.53	(2)	37.15	31.80	36.41	33.56	NA	34.87	27.27
December 37.35	36.08	(2)	36.78	31.29	36.49	33.49	NA	35.97	28.39
AVERAGE 39.09	35.93	(²)	39.44	33.13	38.53	33.70 32.48	NA NA	36.46 36.08	28.02
1982 January 36,96	35.53	(2)	35.69	29.67					28.86
February 35.56	35.59	(²)	34.64	30.92	36.23	33.40	NA	36.20	29.07
March 31,50	35.74	(²)	34.21		35.92	33.50	NA	34.00	28.94
April 30.54	35.69	(²)		27.86	34.94	33.77	NA	30.78	22.89
May 33,32	34.82	31.11	(2)	26.96	33.80	33.49	NA	32.49	21.89
June 34.72	34.62 35.95	NA	(2)	28.53	35.22	32.97	NA	32.43	22.31
July 34.35	35.22	NA 31.44	(2)	28.18	35.18	33.80	NA	33.67	22.25
August 33.03	35.22 35.63		(2)	28.32	35.15	33.26	NA	33.66	23.50
September† 33.42	35.63 34.77	31.17	(2)	27.67	35.13	R32.63		R33.17	20.71
99,0,1,001 90.42	34.17	NA	(2)	28.01	34.66	33.22	NA	32.97	27.38

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. 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

	AVERAGE AVERAGE	•			Iran	Libya	Mexico	Nigeria	Arabia	Emirates	Kingdom	Venezuela
							Dollars pe	r barrel				
		12.72	12.72	13.79	12.21	12.35	NA	12.62	12.30	12.87	NA	11.65
	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
	AVERAGE	14.91	14.50	14.64	13.88	14.72	13.54	14.86	13.92	14.39	NA	12.83
	AVERAGE	21.90	20.43	20.69	25.02	23.68	20.86	22.96	19.15	21.90	22.16	18.18
	January	35.32	27.73	31.03	30.37	37.10	30.18	33.03	27.85	32.35	32.14	26.25
	February	35.28	28.60	32.95	NA	36.98	32.38	35.25	28.15	32.71	34.07	25.91
	March	38.54	30.75	33.04	(²)	37.18	31.17	36.93	28.26	30.96	35.73	24.97
	April	38.52	30.31	33.81	(²)	36.57	30.77	37.41	29.14	32.29	35.34	25.10
	May	38.54	31.16	33.73	(2)	37.36	31.22	37.53	30.30	34.06	35.82	25.93
	June	38.71	31.26	34.51	(²)	38.09	31.43	38.15	30.16	34.96	37.41	26.42
	July	39.60	31.31	34.81	(²)	38.39	32.60	38.23	30.04	NA	37.25	25.47
	August	38.60	31.44	34.81	(²)	38.38	32.62	37.77	31.24	NA	36.20	26.37
	September	38.28	30.97	34.64	(²)	38.30	31.93	37.60	31.86	NA	36.35	25.47
	October	38.77	29.22	33.65	(²)	38.53	31.96	37.75	31.73	NA	36.82	23.92
	November	38.41	28.81	34.55	(²)	38.22	32.42	37.97	32.86	NA	36.62	27.75
	December	38.63	32.72	34.64	(²)	39.04	33.76	38.11	33.40	NA	36.31	27.66
	AVERAGE	37.90	30.47	33.92	(²)	37.72	31.80	37.05	30.02	NA	35.88	1. 25.86
		44.05	34.26	38.08	(°)	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	41.90		38.11	(²)	41.60	36.42	40.98	34.42	NA	40.72	32.09
	March	41.62	33.88	37.95	(²)	41.58	34.42	41.04	34.16	NA	40.02	30.97
	April	40.96	33.74	37. 5 3 37.72	(²)	40.46	34.83	40.10	33.73	NA	38.31	29.39
	May	40.81	32.70		(²)	41.44		39.60	34.29	NA	37.04	31.46
	June	40.31	32.67	38.73 37.20	(°) (°)	40.27		40.05	33.72	NA	35.87	29.22
	July	39.59	31.19	37.20 37.07	(²)	40.30		40.85	33.23	NA	35.40	28.11
	August	40.65	30.44	37.07 37.52	(²)	37.73	_	37.20	33.66	NA	35.26	29.12
	September	41.62	30.83		(2)	38.15		36.64	34.88	NA	36.00	28.27
	October	37.52	31.17	36.39	(2)	38.50	•	37.59	34.91	NA	36.87	29.27
	November	37.43	31.04	36.84 37.31	(2) (2)	38.89		37.52	35.37	NA	37.44	29.00
	December AVERAGE	38.14 40.49	31.37 32.16	37.57	(²)	40.92		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
1902	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		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
	•	34.24	24.90	36.50	32.01	(2)	29.18	36.06	34.28	NA	33.22	23.44
	May	35.41	24.63	37.35	NA	(2)	28.76	36.15	35.20	NA	34.41	23.43
	June	35.41	26.62	37.04	32.08	(²)	28.95	36.19	35.04	NA	34.67	24.61
	July	33.87	26.40	36.81	31.84	(2)	28.19	R36.16	R34.28	NA	R33.88	21.90
	August September†	33.87	26.40 26.57	36.60	NA NA	(a)	28.56		34.59		33.36	28.03

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 Ali 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 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	111.6
	March	120.2 ,	125.2	127.7	123.0
	April	121.2	126.4	129.2	123.0
	May	121.5	126.6	129.5	
	June	121.7	126.9	130.0	124.4
	July	121.6	127.1	130.7	124.6
	August	121.0	126.7	131.0	124.7
	September	119.7	125.7	130.4	124.3
	October	118.8	125.0	130.4	123.1
	November	118.8	125.0	129.9	122.3
	December	119.7	125.8		122.2
	AVERAGE	119.1	124.5	131.0 128.1	123.1 122.1
1981	January	100.0			122.1
	February	123.8	129.8	133.8	126.9
	March	132.1	138.2	141.0	135.3
	April	135.2	141.7	144.9	138.8
	•	134.4	141.2	145.1	138.1
	May June	133.3	140.0	144.7	137.0
		132.4	139.1	144.6	136.2
	July	131.5	138.2	144.6	135.3
	August	131.0	137.6	144.4	134.8
	September ²	130.5	137.6	145.6	135.8
	October	129.9	137.1	145.7	135.3
	November	129.7	136.9	146.2	135.1
	December	129.3	136.5	146.0	134.8
	AVERAGE	131.1	137.8	143.9	135.3
1982	January	128.5	135.8	145.6	134.1
	February	126.0	133.4	143.8	134.1
	March	120.6	128.4	140.7	
	April	114.8	122.5	136.8	126.8
	May	116.6	123.7	137.9	121.0
	June	124.2	130.9	140.8	122.4
	July	126.3	133.1	140.6	129.6
	August	125.4	132.3	145.8	131.8
	September	123.6	130.8	145.6	131.0
	October	121.9	129.5	144.1	129.5 128.0
				171.0	120.0

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

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

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.

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

Price

Aviation Fuel

		Aviation Ga	soline	Naphtha-Type ¹	Kerosene-	Туре
		Wholesale ²	Retail ²	Retail ²	Wholesale ²	Retail ²
			Cent	s per gallon, excludi	ng tax	
1976	AVERAGE	42.4	43.1	31.5	32.5	31.2
1977	AVERAGE	46.7	47.7	35.0	36.7	35.8
1978	AVERAGE	51.0	52.1	37.5	38.9	38.9
1979	AVERAGE	68.5	69.5	52.3	66.5	55.1
1980	January	90.6	90.0	76.0	83.4 86.2	77.0 83.0
	February	98.5	97.8	80.1		86.3
	March	102.9	107.0	84.1	86.4	87.4
	April	104.8	109.6	83.2	88.4	87.4 87.6
	May	106.2	109.7	89.1	89.0	
	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
1301	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
1302	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
		117.7	132.6	R97.3	95.0	95.4
	August	115.5	130.0	98.2	95.3	95.1
	September†	115.5	.50.0	JU.E	34.5	

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

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

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

[†]Preliminary data.

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

Price National Average Heating Oil Prices¹

1976 AVERAGE 31.4 32.6 NA 40.8 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 90.6 March 78.8 80.4 17.1 97.1 May 79.3 81.4 16.3 97.2 June 80.2 92.5 15.8 97.9 August 79.3 83.0 15.8 97.9 Average 80.7 83.0 15.2 97.9 Cotober 80.7 83.0 15.4 98.1 November 84.0 86.1 13.9 101.1 AVERAGE 80.0 82.2 15.3 98.7 December 88.6 91.3 14.1 106.5 1981 January 94.9 98.6 15.1 114.4 March 102.8 106.0 16.1 123.4 April 100.9 105.2 17.7 123.5 May 100.7 104.0 17.6 122.7 July 98.5 102.7 17.1 121.0 August 99.3 103.0 17.6 122.7 July 98.5 102.7 17.1 121.0 August 99.3 103.0 17.6 122.7 July 98.5 102.7 17.1 121.0 September 98.0 101.1 16.6 11.8 December 100.0 101.1 16.6 11.2 August 99.2 102.2 17.7 121.0 August 99.2 102.2 17.6 120.8 Average 99.3 102.6 16.8 120.5 April 99.6 101.6 17.2 119.7 November 100.0 101.1 16.6 11.8 December 100.6 102.3 17.6 120.8 Average 99.3 102.6 16.8 120.5 August 99.2 102.6 16.8 120.5 April 99.3 102.6 16.9 16.2 August 99.2 102.6 16.9 16.2 April 99.3 102.6 16.9 16.2 April 99.3 102.6 16.8 120.5 April 99.3 102.6 16.8 120.5 April 99.3 103.0 12.6 16.8 120.5 April 99.3 103.0 12.6 16.8 120.5 April 99.3 103.0 12.6 16.8 120.5 April 99.3 103.0 103.0 12.6 16.8 120.5 April 99.5 99.6 10.8 120.5 April 99.5 99.5 99.5 11.5 99			Refiners' Average Selling Price to Resellers and Retailers	Average Purchase Price Paid by Distributors for Heating Oil ²	Average Distributor Margin on Residential Heating Oil ²	Average Selling Price to Residential Customers
1977 AVERAGE 35.7 38.9 NA 40.8 1978 AVERAGE 37.2 38.7 11.0 49.4 1979 AVERAGE 55.9 53.0 12.8 65.8 1980 January 75.0 75.2 16.2 90.8 February 77.8 79.0 18.7 95.3 April 78.8 80.4 17.1 97.1 May 79.3 81.0 17.0 97.4 June 80.2 82.5 15.8 97.9 August 79.3 83.0 15.3 97.9 August 79.3 83.0 15.3 97.9 Cotober 80.7 93.3 83.0 15.3 97.9 Cotober 80.7 93.3 83.0 15.3 98.7 November 84.0 88.1 13.8 101.1 AVERAGE 80.0 82.2 15.8 98.1 1981 January 94.9 88.6 91.3 14.1 106.5 1981 January 94.9 88.6 15.1 114.4 April 100.9 105.2 15.8 97.8 May 100.7 104.0 17.7 123.9 June 99.3 103.0 17.7 123.9 June 99.3 103.0 17.7 123.9 June 99.3 103.0 17.7 123.9 June 99.3 100.7 17.7 123.9 June 99.3 100.7 17.7 123.9 June 99.3 103.0 17.6 125.7 June 99.3 103.0 17.6 125.7 June 99.3 103.0 16.9 120.9 June 99.3 103.0 16.9 120.9 August 98.5 102.7 17.1 121.0 September 97.8 101.6 17.2 119.7 November 100.0 102.3 16.6 118.8 December 97.8 101.6 17.2 119.7 November 100.0 102.3 16.6 118.9 December 97.8 101.6 122.7 August 98.2 102.2 16.2 119.7 November 100.0 102.3 17.6 122.7 August 98.2 102.2 16.2 119.7 November 100.0 102.3 16.6 118.9 December 100.0 102.3 16.6 118.0 December 100.0 102.3 16.6 118.0 December 100.0 102.3 17.6 122.0 December 100.0 102.3 16.6 118.0 December 100.0 102.6 12.7 17.1 121.0 December 100.0 102.3 16.6 118.0 December 100.0 102.6 12.7 17.1 121.0 December 100.0 102.3 16.6 118.0 December 100.0 102.6 18.9 118.2 Unit 99.4 99.5 18.9 118.2 Unit 99.4 99.5 18.6 18.9 118.5				Cents per gallo	on .	74010111010
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 18.2 90.8 February 77.8 79.0 16.7 95.3 March 78.8 80.4 17.1 97.1 April 78.8 81.0 17.0 97.4 June 80.2 82.5 15.8 97.9 August 79.3 83.0 15.8 97.9 August 79.3 83.0 15.3 97.9 September 79.3 83.0 15.4 98.1 November 84.0 86.1 13.8 101.1 AVERAGE 80.0 82.2 15.8 97.8 1981 January 94.9 98.6 15.1 114.4 April 100.9 105.2 17.7 123.9 June 99.3 103.0 15.1 114.4 April 100.9 105.2 17.7 123.9 June 99.3 103.0 17.6 125.5 May 100.7 104.0 16.1 123.4 April 100.9 99.3 103.0 17.6 125.5 August 98.2 102.2 17.7 123.9 June 99.3 103.0 17.6 125.5 May 100.7 104.0 16.1 123.4 April 100.9 105.2 17.7 123.9 June 99.3 103.0 16.9 120.7 June 99.3 103.0 16.9 120.9 August 98.2 102.2 16.6 18.3 120.9 August 98.2 102.2 16.6 18.3 120.9 August 98.2 102.2 16.2 119.4 October 98.0 101.1 16.6 118.8 October 99.0 101.1 16.6 118.8 October 99.0 100.0 102.3 17.6 120.9 August 98.2 102.2 16.2 119.4 October 98.0 101.1 16.6 118.8 October 99.0 100.6 102.3 17.6 120.9 August 98.2 102.2 16.2 119.4 October 98.0 101.1 16.6 118.8 October 99.0 100.6 102.3 17.6 120.8 AVERAGE 99.3 102.6 18.3 120.5 February 94.7 98.3 21.3 120.7 February 94.7 98.3 22.6 115.3 June 95.4 98.5 18.9 115.2 June 95.4 98.5 18.6 18.9 115.9 June 95.4 98.5 18.6 18.9 115.9	1976	AVERAGE	31.4	32.6	NA	40.0
1978 AVERAGE 37.2 38.7 11.0 49.4 1979 AVERAGE 55.9 53.0 12.8 65.6 1980 January 75.0 75.2 16.2 90.8 February 77.8 79.0 16.7 95.3 April 78.8 80.4 17.1 97.1 May 79.3 81.4 17.0 97.4 June 80.2 82.5 15.8 97.9 August 79.3 82.9 15.2 97.9 August 79.3 83.0 15.3 97.9 September 79.3 83.0 15.3 97.9 Cotober 80.7 83.7 15.3 98.7 Docember 84.0 86.1 13.8 101.1 AVERAGE 80.0 82.2 15.8 98.7 1981 January 94.9 98.6 15.1 11.8 106.5 March 102.8 106.3 17.6 122.4 March 102.8 106.3 17.6 122.5 May 100.7 104.0 17.6 122.9 June 99.3 103.0 17.6 122.7 August 98.5 100.0 16.1 123.4 April 100.9 105.2 17.7 123.9 June 99.3 103.0 17.6 122.7 August 98.2 100.0 17.7 123.9 June 99.3 103.0 17.6 122.7 August 98.2 100.0 17.7 123.9 June 99.3 103.0 17.6 122.7 August 98.2 102.2 16.2 119.4 October 97.8 101.1 16.6 118.8 December 100.0 102.3 17.6 122.7 November 100.0 102.3 17.6 122.0 August 98.2 102.2 16.2 119.4 October 98.0 101.1 16.6 118.8 December 100.6 102.6 18.3 122.0 AVERAGE 99.3 102.6 16.8 120.8 AVERAGE 99.3 102.6 16.8 120.8 AVERAGE 99.3 102.6 16.8 120.5 AVERAGE 99.3 102.6 16.8 120.8 AVERAGE 99.3 102.6 16.8 120.5 AVERAGE 99.3 102.6 16.8 120.5 June 99.3 102.6 16.8 120.5 AVERAGE 99.3 102.6 16.8 120.5 September 99.5 1 18.4 114.3 July 99.5 1 18.4 114.3 July 99.5 1 18.4 114.3 July 99.8 5 18.4 19.8 18.8 18.8 18.8 18.8 18.8 18.8 18.8	1977	AVERAGE	35.7	36.9		
1979 AVERAGE 55.9 53.0 12.8 65.6 1980 January 75.0 75.2 16.2 90.8 March 78.8 80.4 16.7 95.3 April 78.8 81.0 17.1 97.1 May 79.3 81.4 16.3 97.2 June 80.2 82.5 15.8 97.9 Average 80.0 15.3 97.9 September 99.3 100.6 16.1 13.8 101.1 106.5 122.7 July 98.5 100.9 105.2 17.6 122.5 May 100.7 100.9 105.2 17.6 122.5 April 100.0 101.1 17.7 123.9 July 98.5 100.6 17.6 122.7 July 98.5 100.6 11.1 124.0 April 100.9 98.5 100.6 11.1 12.2 August 99.3 100.7 104.0 17.6 122.7 July 98.5 100.9 105.2 17.7 123.9 August 90.2 102.2 16.8 122.7 July 98.5 100.0 10.1 17.6 122.7 July 98.5 100.0 10.1 16.8 118.8 December 97.8 100.6 100.6 16.3 120.6 18.3 120.0 May 91.2 99.3 102.6 16.8 120.5 19.3 June 95.4 98.3 21.3 120.0 May 91.2 99.3 102.6 16.8 120.5 115.3 May 91.1 101.5 18.3 120.0 July 93.8 98.6 16.8 120.5 115.3 July 93.8 98.6 16.9 110.2 September 93.7 98.7 98.6 16.9 110.2 September 93.7 93.7 98.6 16.9 110.	1978	AVERAGE	37.2			
1980 January 75.0 75.2 16.2 90.8 February 77.8 79.0 16.7 95.3 April 78.8 80.4 17.1 97.1 97.1 May 79.3 81.4 16.3 97.2 June 80.2 82.5 15.8 97.9 32.5 33.0 15.3 97.9 34.0	1979	AVERAGE	55.9			49.4
February 77.8 79.0 16.2 90.8 March 78.8 80.4 17.1 95.1 April 78.8 81.0 17.0 97.4 June 80.2 82.5 15.8 97.9 July 79.3 83.0 15.3 97.9 September 97.8 80.7 83.7 15.3 98.7 July 79.3 83.0 15.4 98.1 15.2 97.9 September 84.0 86.1 15.3 98.7 July 79.2 83.0 15.3 98.7 July 79.2 83.0 15.3 97.9 September 84.0 86.1 15.3 98.7 July 79.2 83.0 15.3 98.7 July 79.2 83.0 15.3 98.7 July 79.2 83.0 15.4 98.1 November 84.0 86.1 13.8 101.1 106.5 Pebruary 102.5 108.0 15.1 114.1 106.5 Pebruary 102.5 108.0 16.1 13.8 July March 102.8 106.3 16.1 123.4 April 100.9 105.2 17.7 123.9 July 98.5 102.7 104.0 17.6 122.7 September 97.8 102.6 102.6 16.2 119.4 October 98.0 101.6 102.2 16.2 119.4 October 98.0 101.6 102.3 17.6 120.8 AVERAGE 99.3 102.6 16.8 120.8 AVERAGE 99.3 102.	1980	January			12.8	65.6
March 78.8 80.4 17.1 95.3 April 78.8 80.4 17.1 97.1 97.1 97.1 17.0 97.4 17.0 97.4 18.8 81.0 17.0 97.4 18.9 18.0 17.0 97.4 18.9 18.0 17.0 97.4 18.9 18.0 17.0 17.0 97.4 18.9 18.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17				75.2	16.2	90 B
April 76.8 80.4 17.1 97.1 May 79.3 81.4 16.3 97.2 June 80.2 82.5 15.8 97.9 August 79.3 82.9 15.2 97.9 October 80.7 83.7 15.3 98.7 December 88.6 91.3 14.1 106.5 97.8 15.8 10.1 106.5 15.8 10.1 106.5 15.8 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10				79.0		
May 79.3 81.0 17.0 97.4 June 80.2 81.5 16.8 97.9 July 79.2 83.0 15.3 97.9 August 79.3 83.0 15.3 97.9 September 79.3 82.9 15.2 97.9 October 80.7 83.7 15.3 98.7 December 88.6 91.3 14.1 106.5 AVERAGE 80.0 82.2 15.8 97.8 May 100.7 104.0 16.1 123.4 March 102.8 106.3 17.6 125.5 May 100.7 104.0 17.7 123.9 June 99.3 103.0 17.6 122.7 July 98.5 102.7 17.1 121.0 September 98.0 101.1 16.6 118.8 December 100.0 102.3 17.6 122.0 August 98.2 102.2 16.2 119.7 November 100.0 101.1 16.6 118.8 December 100.6 102.3 17.6 120.9 AVERAGE 99.3 102.6 18.3 122.0 December 100.6 102.3 17.6 120.8 AVERAGE 99.3 102.6 18.3 122.0 December 100.6 102.3 17.6 120.8 AVERAGE 99.3 102.6 18.3 122.0 May 91.1 101.5 19.3 122.0 May 91.2 99.1 101.5 19.3 122.0 May 91.2 95.1 18.4 114.3 July 93.6 98.6 16.9 115.3 May 91.2 95.1 18.4 114.3 July 93.6 98.6 16.9 115.8 Septembert 93.7 07.8 R86.7 R86.2 R115.9				80.4		
May 79.3 81.4 16.3 97.2 June 80.2 82.5 15.8 97.9 August 79.2 83.0 15.3 97.9 September 79.3 82.9 15.2 97.9 October 80.7 83.7 15.3 98.7 December 84.0 86.1 13.8 101.1 AVERAGE 80.0 82.2 15.8 97.8 February 102.5 106.0 16.1 123.4 March 102.8 106.3 17.6 125.5 May 100.7 105.2 17.7 123.9 June 99.3 103.0 16.9 122.7 July 98.5 102.7 17.1 121.0 September 99.8 100.6 17.2 119.4 October 98.0 101.1 16.6 122.7 August 98.2 102.2 17.7 121.9 August 98.2 102.2 17.7 121.9 August 98.3 103.0 16.9 120.9 August 98.2 102.2 17.7 17.1 121.0 September 97.8 102.2 16.2 119.4 October 98.0 101.6 17.2 119.4 October 98.0 101.6 17.2 119.4 October 98.0 101.1 16.6 118.8 AVERAGE 99.3 102.6 16.3 17.6 120.8 AVERAGE 99.3 102.6 16.3 17.6 120.8 AVERAGE 99.3 102.6 16.2 119.4 October 98.0 101.1 16.6 118.7 November 100.0 102.3 17.6 120.8 AVERAGE 99.3 102.6 16.3 120.5 February 94.7 98.3 21.3 120.0 May 91.2 99.1 101.5 19.3 120.0 May 91.2 95.1 18.4 114.3 July 93.6 98.5 16.9 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.5 16.9 115.8 September† 93.7 97.8 R96.7 R18.2 R115.9			78.8	81.0		
June 80.2 82.5 15.8 97.9 July 79.2 83.0 15.3 97.9 August 79.3 82.9 15.2 97.9 October 80.7 83.7 15.3 98.7 December 84.0 86.1 13.8 101.1 AVERAGE 80.0 82.2 15.8 97.8 February 94.9 98.6 15.1 114.4 March 102.8 106.3 17.6 123.4 April 100.9 105.2 17.7 123.9 June 99.3 103.0 16.9 122.7 July 98.5 102.7 17.1 121.0 September 97.8 101.6 17.2 119.7 November 97.8 101.6 17.2 119.7 November 100.0 101.1 16.6 17.2 119.7 November 100.0 102.3 17.6 120.8 AVERAGE 99.3 102.6 18.3 122.0 AVERAGE 99.3 102.6 18.3 122.0 September 97.8 101.6 17.2 119.7 November 100.0 102.3 17.6 120.8 AVERAGE 99.3 102.6 18.3 122.0 June 95.4 98.5 16.9 115.3 May 91.2 95.1 18.4 114.3 July 93.8 96.6 16.3 115.3 May 91.2 95.1 18.4 114.3 July 93.8 96.6 16.3 115.8 AVERAGE 99.3 7 98.5 16.9 116.2 August 95.4 98.5 16.9 116.2 June 95.4 98.5 16.9 116.2 August 92.5 896.6 16.3 115.8 Septemberf 93.7 97.8 RIB.2 RITIS.9			79.3			
July 79.2 83.0 15.3 97.9 August 79.3 82.9 15.2 97.9 September 79.3 83.0 15.3 97.9 October 80.7 83.7 15.3 98.7 December 88.6 91.3 13.8 101.1 AVERAGE 80.0 82.2 15.8 97.8 February 102.5 106.0 15.1 114.4 March 102.8 106.3 17.6 125.5 May 100.7 104.0 17.6 125.5 May 100.7 104.0 17.6 122.7 Jule 99.3 103.0 16.9 120.9 August 98.2 102.2 17.7 121.0 September 97.8 101.6 17.2 119.7 November 100.0 101.1 16.6 17.2 119.7 November 100.0 101.1 16.6 118.8 December 100.6 102.6 16.8 120.5 1982 January 99.1 101.5 February 94.7 98.3 12.0 AVERAGE 99.3 102.6 16.8 120.5 1982 January 99.1 101.5 February 94.7 98.3 12.0 May 91.2 95.1 12.0 July 93.8 96.6 16.8 120.5 June 95.4 98.5 16.9 115.3 May 91.2 95.1 16.4 114.3 July 93.8 96.6 16.3 115.8 Septemberf 97.8 96.7 R18.2 R115.9 Septemberf 93.7 94.7 98.5 16.9 116.2		June	80.2			
August 79.3 82.9 15.2 97.9 September 79.3 83.0 15.4 98.1 November 84.0 83.7 15.3 98.7 December 88.6 91.3 13.8 101.1 AVERAGE 80.0 82.2 15.8 97.8 1981 January 94.9 98.6 15.1 114.4 March 102.8 106.3 17.6 122.5 May 100.7 104.0 17.6 122.7 June 99.3 103.0 16.9 120.9 August 98.2 102.7 17.1 121.0 September 97.8 101.6 17.2 119.4 October 98.0 101.1 16.6 17.2 119.4 October 98.0 101.1 16.6 118.8 December 100.0 102.3 17.6 120.8 AVERAGE 99.3 102.6 18.3 120.5 May 91.1 100.9 101.5 19.3 122.0 March 87.4 98.3 21.3 120.7 April 86.0 90.0 22.0 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.2 99.5 18.4 114.3 July 93.8 98.6 16.9 115.2 January 99.1 99.1 101.5 February 94.7 98.3 21.3 120.7 April 86.0 90.0 22.0 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.6 16.9 116.2 June 95.4 98.5 16.9 116.2 June 95.4 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9		July				97.9
September 79.3 83.0 15.4 98.1		August			-	97.9
October 80.7 83.7 15.4 98.1 November 84.0 86.1 13.8 101.1 AVERAGE 80.0 82.2 15.8 97.8 1981		September			15.2	97.9
November 84.0 86.1 13.8 101.1			- · ·		15.4	98.1
December 88.6 91.3 13.8 101.1 AVERAGE 80.0 82.2 15.8 97.8 1981 January 94.9 98.6 15.1 114.4 March 102.8 106.3 17.6 125.5 May 100.7 104.0 17.7 123.9 June 99.3 103.0 16.9 122.7 July 98.5 102.7 17.1 121.0 September 97.8 101.6 17.2 119.7 November 97.8 101.6 17.2 119.7 November 100.0 101.1 16.6 118.8 December 100.6 102.3 17.6 120.8 AVERAGE 99.3 102.6 18.3 122.0 AVERAGE 99.3 102.6 18.3 122.0 I982 January 99.1 101.5 19.3 120.5 February 94.7 98.3 21.3 120.5 May 91.2 95.1 18.4 114.3 July 93.8 96.6 16.3 115.8 May 91.2 95.1 18.4 114.3 July 93.8 98.6 16.3 115.9 August 92.5 R96.7 R18.2 R115.9					15.3	
AVERAGE 80.0 82.2 15.8 97.8 1981 January 94.9 98.6 15.1 114.4 February 102.5 108.0 16.1 123.4 April 100.9 105.2 17.7 123.9 June 99.3 103.0 16.9 122.7 July 98.5 102.7 17.1 121.0 September 97.8 102.2 16.2 119.4 October 98.0 101.6 17.2 119.4 October 98.0 101.1 16.6 118.8 December 100.0 102.3 17.6 120.8 AVERAGE 99.3 102.6 18.3 122.0 AVERAGE 99.3 102.6 18.3 122.0 1982 January 99.1 101.5 19.3 122.0 February 94.7 98.3 21.3 122.0 May 91.2 95.4 98.5 10.9 May 91.2 95.4 98.5 10.9 May 91.2 95.1 18.4 114.3 July 93.8 98.6 16.9 116.2 August 92.5 R96.7 R18.2 R115.9					13.8	
1981 January 94.9 98.6 15.1 114.4			· - · -	91.3		
1981 January 94.9 98.6 15.1 114.4		AVERAGE	80.0	82.2		
February 102.5 106.0 15.1 114.4 March 102.8 106.3 17.6 123.4 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 August 98.2 102.7 17.1 121.0 September 97.8 101.6 17.2 119.4 October 98.0 101.6 17.2 119.7 November 100.0 101.1 16.6 118.8 December 100.6 102.6 18.3 122.0 AVERAGE 99.3 102.6 16.8 120.5 1982 January 99.1 101.5 19.3 122.0 March 87.4 91.3 21.3 120.7 April 86.0 90.0 22.0 113.2 June 95.4 91.3 40gust 98.4 98.5 16.9 116.2 August 93.8 98.6 16.3 115.8 August 92.5 R96.7 R18.2 R115.9	1981	January	94.9	00.6		07.0
March 102.8 106.3 17.6 123.4 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 August 98.2 102.7 17.1 121.0 September 97.8 101.6 17.2 119.4 October 98.0 101.1 16.6 119.8 December 100.0 102.3 17.6 119.8 AVERAGE 99.3 102.6 18.3 122.0 AVERAGE 99.3 102.6 16.8 120.5 1982 January 99.1 101.5 19.3 122.0 March 87.4 98.3 21.3 120.7 April 86.0 90.0 22.0 113.2 June 95.4 98.5 16.9 16.9 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.6 16.9 116.2 R115.9 September† 93.7 R18.2 R115.9		February				114.4
April 100.9 105.2 17.6 125.5 May 100.7 104.0 17.6 122.7 June 99.3 103.0 17.6 122.7 July 98.5 103.0 16.9 120.9 August 98.2 102.7 17.1 121.0 September 97.8 101.6 17.2 119.4 October 98.0 101.1 16.6 118.8 December 100.0 102.3 17.6 120.8 AVERAGE 99.3 102.6 16.8 120.5 1982 January 99.1 February 94.7 98.3 122.0 March 87.4 91.3 21.3 122.0 March 87.4 98.3 21.3 122.0 May 91.2 95.1 18.4 114.3 June 95.4 98.5 16.9 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.6 16.3 115.8 August 92.5 R96.7 R18.2 R115.9		March				123.4
May 100.7 104.0 17.6 122.7 June 99.3 103.0 16.9 122.7 July 98.5 102.7 17.1 121.0 August 98.2 102.2 16.2 119.4 October 98.0 101.6 17.2 119.7 November 100.0 102.3 17.6 120.8 December 100.6 102.6 18.3 122.0 AVERAGE 99.3 102.6 16.8 120.5 1982 January 99.1 101.5 19.3 122.0 March 87.4 91.3 22.6 15.3 May 91.2 98.3 21.3 120.7 April 86.0 90.0 90.0 22.0 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.5 16.9 116.2 August 92.5 89.6 16.3 115.8 September† 93.7 97.6		April	-	-	17.6	125.5
June 99.3 103.0 17.6 122.7 July 98.5 102.7 17.1 121.0 August 98.2 102.2 16.2 119.4 October 98.0 101.1 16.6 118.8 December 100.0 102.3 17.6 120.8 AVERAGE 99.3 102.6 18.3 122.0 January 99.1 101.5 18.3 122.0 March 87.4 91.3 21.3 120.7 April 86.0 90.0 90.0 22.0 13.2 June 95.4 98.5 16.9 116.2 June 95.4 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9 September† 93.7					17.7	
July 98.5 103.0 16.9 120.9 August 98.2 102.7 17.1 121.0 September 97.8 101.6 17.2 119.7 November 100.0 101.1 16.6 118.8 December 100.6 102.6 18.3 122.0 AVERAGE 99.3 102.6 16.8 120.5 1982 January 99.1 101.5 19.3 122.0 March 87.4 98.3 21.3 120.7 April 86.0 99.3 22.6 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.5 16.9 116.2 August 95.4 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9				104.0	17.6	
August 98.2 102.7 17.1 121.0 September 97.8 101.6 17.2 119.4 October 98.0 101.6 17.2 119.7 November 100.0 101.1 16.6 118.8 December 100.6 102.6 18.3 122.0 AVERAGE 99.3 102.6 16.8 120.5 1982 January 99.1 101.5 19.3 122.0 March 87.4 98.3 21.3 120.7 April 86.0 99.3 21.3 120.7 April 86.0 90.0 22.6 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9				103.0	·	
September 98.2 102.2 16.2 119.4	•			102.7		
1982 January 99.1 101.5 19.3 12.0	•					
November 100.0 101.1 16.6 118.8				101.6		
November 100.0 102.3 17.6 120.8 December 100.6 102.6 18.3 122.0 AVERAGE 99.3 102.6 16.8 122.0 1982 January 99.1 101.5 19.3 122.0 March 87.4 98.3 21.3 120.7 April 86.0 90.0 22.6 115.3 May 91.2 95.1 18.4 114.3 June 95.4 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9 Septembert 93.7 97.8			98.0		· · · · -	
AVERAGE 99.3 102.6 18.3 122.0 1982 January 99.1 101.5 19.3 122.0 March 87.4 98.3 21.3 120.7 April 86.0 90.0 22.6 115.3 May 91.2 95.1 18.4 114.3 June 95.4 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9			100.0			
AVERAGE 99.3 102.6 18.3 122.0 1982 January 99.1 101.5 19.3 122.0 March 87.4 98.3 21.3 120.7 April 86.0 90.0 22.6 115.3 May 91.2 95.1 18.4 114.3 June 95.4 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9 Septembert 93.7 97.8		December	100.6			120.8
1982 January 99.1 101.5 19.3 122.0 February 94.7 98.3 21.3 122.0 March 87.4 91.3 22.6 115.3 April 86.0 90.0 22.0 115.3 May 91.2 95.1 18.4 114.3 June 95.4 98.5 16.9 116.2 August 92.5 896.6 16.3 115.8 Septembert 93.7 97.8 816.2 R115.9		AVERAGE	99.3			
February 94.7 98.3 122.0 March 87.4 98.3 21.3 120.7 April 86.0 90.0 22.6 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9 Septembert 93.7 97.8	1982	January	00.4	•	10.8	120.5
March 87.4 98.3 21.3 120.7 April 86.0 90.0 22.6 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9 Septembert 93.7 97.8				101.5	19.3	122.0
April 86.0 91.3 22.6 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9 September† 93.7 97.8				98.3		
April 86.0 90.0 22.0 115.3 May 91.2 95.1 18.4 114.3 July 93.8 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9 Septembert 93.7 97.8				91.3		
May 91.2 95.1 18.4 114.3 June 95.4 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9 Septembert 93.7 97.8		•	86.0			
July 95.4 98.5 16.9 116.2 August 92.5 R96.7 R18.2 R115.9 Septembert 93.7 97.8			91.2			
July 93.8 98.6 16.9 116.2 August 92.5 R96.7 R18.2 R115.9 Septembert 93.7 R18.2 R115.9			95.4			
August 92.5 R96.7 R18.2 R115.9		July				116.2
September† 93.7 93.7 R18.2 R115.9		August				115.8
					-	R115.9
			55. ,	97.8	15.8	

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 pe	er 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
19/9	February	57.7	57.3	55.5	53.2	53.7	(a)	51.3	51.4	49.4	52.9
	March	60.6	59.8	57.5	54.3	56.3	(²)	54.7	55.3	50.8	55.3
	April	62.8	61.9	60.0	57.3	58.8	(°)	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)	<u>7</u> 6.4	77.1	71.7	77.2
	September	83.3	81.4	80.0	79.4	81.5	(a)	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	(a)	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
1900	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	(°)	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	(°)	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	(°)	93.7	93.0	97.2	100.6
	October	101.1	98.8	97.4	95.6	95.9	(2)	94.7	94.1	98.6	100.4
	November	102.5	103.0	99.9	101.5	98.8	(²)	95.2	98.5	101.0	103.1
	December	108.2	108.5	105.3	106.6	103.4	(2)	99.6	101.8	(2)	105.6
1981	January	116.2	117.1	113.2	114.0	110.4	(²)	106.3	108.6	(²)	107.5
1501	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	(a)	114.7	118.4	(²)	117.5
	May	125.5	125.6	122.1	118.8	117.3	(°)	114.5	115.1	114.1	115.6
	June	124.1	123.6	121.1	115.9	116.5	(3)	112.5	116.0	(°)	117.1
	July	123.3	122.9	120.6	120.2	116.0	(2)	115.9	116.2	(2)	118.3
	August	122.7	122.2	117.9	117.4	115.1	(²)	112.1	116.9	(°2)	117.7
	September	122.7	121.4	118.5	120.5	116.2	(²)	111.6	116.8	(²)	117.8
	October	122.5	122.0	115.3	117.6	116.3	(²)	112.0	115.8	(2)	118.2
	November	123.3	123.2	119.5	118.2	116.7	(2)	114.1	115.8	(2)	118.8
	December	124.8	124.7	120.7	119.0	117.4	(*)	112.4	117.1	(²)	120.0
1982	January	125.3	124.7	120.6	118.7	117.1	(a)	112.7	116.1 114.9	(2) (2)	119.7 119.5
	February	123.2	123.7	119.3	115.3	116.0	(2)	. 110.9	109.7	(²)	118.1
	March	117.4	119.0	112.3	112.9	111.0	(2)	106.4	109.7	(°)	116.0
	April	113.9	116.6	112.2	109.4	108.7	(2)	100.8 108.7	108.4	(°)	116.6
	May	115.9	117.1	113.2	111.7	110.8	(2)		112.3	(°) (°)	116.0
	June	117.5	118.5	115.2	113.5	114.4	(2)	111.8		(²)	115.9
	July	117.7	118.5	113.4	115.2	113.6	(a)	111.7	(2) (2)	(°)	116.3
	August	R118.6	R118.8	R113.9	R112.4	R111.9	(2)	(²)	(°)	(²) (²)	116.2
	September†	119.7	118.0	110.8	114.6	112.4	(2)	109.1	(*)	(7)	110.2

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

) to 0.3 ent sulfur		to 1.0 nt sulfur		r than 1.0 nt sulfur	Ave	erage
		Whole sale	- Retail	Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail
					ollars per bar	rel, excluding ta	xes		
1976	AVERAGE	12.20	12.54	10.83	11.79	9.98	10.43	10.72	44.40
1977	AVERAGE	13.45	14.36	12.09	13.45	11.31	12.27	11.96	11.49
1978	AVERAGE	12.77	14.47	11.95	12.78	10.73	11.70	11.51	13.23
1979	AVERAGE	19.87	21.21	18.33	19.33	15.89	16.44	17.66	12.75 18.67
1980	January	29.11	30.35	26.15	28.12	21.56	21.98		
	February	27.07	30.32	25.82	28.15			24.41	26.21
	March	26.88	30.20	23.73	27.29	20.21	22.22	23.34	26.48
	April	25.16	28.69	20.38	24.78	17.81	20.34	21.11	25.33
	May	25.48	31.73	22.72	24.76 25.77	16.41	18.36	19.09	22.87
	June	23.14	31.37	22.35	25.77 25.44	17.72	18.04	20.22	23.75
	July	24.89	28.51	23.44	25.44 25.55	17.72	19.27	20.44	24.09
	August	23.20	30.93	24.98	26.11	19.20	20.58	21.28	23.86
	September	24.27	33.12	23.46		20.42	21.45	22.25	25.00
	October	25.72	31.88	25.46 25.86	26.31 27.99	20.62	21.71	22.47	25.31
	November	29.52	33.70	29.40	27.99 30.89	22.30	23.29	24.06	26.68
	December	31.69	35.76	31.29		27.08	27.50	28.12	30.10
	AVERAGE	26.41	31.13		32.61	28.39	30.03	29.76	32.33
4004				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
	Мау	33.61	41.09	32.53	35.94	28.77	30.64	30.41	34.70
	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	
	February	31.67	38.41	29.30	30.95	23.60	24.70	26.29	29.83
	March	30.95	38.96	27.60	30.57	23.45	24.21	25.73	30.02
	April	30.11	36.77	27.08	30.00	23.57	24.40	25.73 25.46	29.50
	May	30.38	37.97	27.89	30.05	25.15	25.94	26.52	28.21
	June	27.98	38.93	28.26	30.89	25.35	26.56	26.62	28.93
	July	30.05	37.46	27.39	29.84	24.19	26.49	25.97	29.59 29.33
	August	R28.86	R31.82	27.50	30.37	R25.40	R26.02		29.33 R28.44
	September†	30.21	32.42	27.59	30.46	25.48	25.91	26.65	28.45
						- · · · -		20.00	20.70

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, †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	1.37	2.00	3.58
	February	1.42	2.10	3.61
	March	1.46	2.13	3.71
	April	1.51	2.09	3.71
	May	1.56	2.17	3.97
	June	1.57	2.15	3.98
	July	1.64	2.36	4.14
	August	1.64	2.45	4.16
	September	1.69	2.45	4.20
	October	1.71	2.52	4.24
	November	1.76	2.37	3.99
	December	1.74	2.31	4.07
	AVERAGE	1.59	2.28	3.95
1981	January	1.77	2.51	4.10
	February	1.81	2.67	4.13
	March	1.86	2.71	4.21
	April	1.93	2.81	4.25
	May	1.95	2.92	4.61
	June	1.95	2.95	4.61
	July	2.01	2.97	4.64
	August	2.02	2.99	4.70
	September	2.08	2.95	4.90
	October	2.11	3.07	4.91
	November	2.15	3.07	4.88
	December	2.16	2.97	4.75
	AVERAGE	1.98	2.91	4.56
1982	January	2.17	3.07	4.86
1002	February	2.19	3.18	4.87
	March	2.27	3.25	5.06
	April	2.31	3.32	5.18
	May	2.37	3.42	R5.63
	June	R2.41	3.57	R5.62
	July	R2.45	3.69	R5.60
	August	2.49	3.67	5.56
	rugust	2.70	2.2.	

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.

*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

					MIII		ior Privately	Owned Util	ities.	
		Coal	Residual Oil ²	Natural Gas³	All Fossil Fuels ²	Residential	Commercial	Industrial	Other	Total•
			Cents per	million Btu			Cents pe	r kilowatt-hou	ır	
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	AVERAĢE	111.6	212.3	143.8	139.3	4.31	4.36	2.79	3.62	3.69
1979	AVERAĜE	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	4.57 4.58	
	July	137.4	394.5	228.2	199.0	5.66	5.65			4.85
	August	137.9	404.9	237.2	195.2	5.72		3.93	4.93	5.03
	September	138.9	411.3	238.7	193.1	5.72 5.69	5.64	3.94	4.81	5.07
	October	138.1	452.2	245.7			5.73	3.89	4.95	5.03
	November	139.3	496.0		192.7	5.68	5.84	3.84	4.88	4.95
	December			231.3	200.0	5.60	5.70	3.85	5.06	4.89
		137.8	521.9	226.3	206.6	5.49	5.69	3.88	4.82	4.90
4004	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	5.64 5.61
	December	156.7	505.0	291.4	215.5	6.32	6.46	4.56	5.43 ⁵4.60	
	AVERAGE	153.2	529.4	282.5	222.5	6.20	6.29	4.29	5.28	5.65 5.46
1982	January	160.8	484.6	301.0	226.5	6.22	6.49	4.66	5.44	
	February	164.1	487.6	310.4	222.2	6.35				5.74
	March	165.6	470.9	315.8	219.8	6.58	6.68	4.70	5.84	5.84
	April	164.6	478.0	323.5	214.3		6.79	4.83	6.39	5.97
	May	165.0	486.0	323.5	214.3	6.72	6.82	4.84	5.77	5.99
	June	167.0	479.6			6.94	6.86	4.95	5.91	6.09
	July	164.4	468.8	345.8	224.7	7.08	6.94	4.92	6.01	6.18
	August	164.7	458.8	356.2	237.6	7.18	6.98	5.12	6.13	6.38
	September+	NA		355.7	227.6	7.22	6.91	5.14	6.09	6.40
	Ochroninei I	INA	NA	NA	NA	7.18	6.97	5.25	6.07	6.41

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

3Includes a major adjustment by one utility.

† Preliminary data. NA = Not available.

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

Notes and Sources for the Price Section

Notes

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

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 filling acquirements and a different method for handling prior period adjustments, care must be taken in comparing the data collected 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 exclude oil purchased for SPR, whereas the composite averages derived from ERA Form

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 forward differ 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.

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

7. Standard Federal Regions are defined as follows:

Region 1 — Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island;
Region 2 — New York, New Jersey, Puerto Rico, Virgin Islands;
Region 3 — Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware;
Region 4 — Kentucky, Tennessee, North Carolina, South Carolina, Mississispi, Alabama, Georgia, Florida, Canal Zone;
Region 5 — Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio;

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

Region 6 — Texas, New Mexico, Okianoma, Aransas, Edulada, 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 5 — Camornia, Nevaua, Anzona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guarri, Region 10 — Washington, Oregon, Idaho, Alaska.

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

Sources

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

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

No. 6 residual oil prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

No. 2 diesel prices—EIA, FEA Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices."

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

Notes and Sources for the Price Section (continued)

- Petroleum and Petroleum Products (continued):

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

 Motor gasoline prices—Bureau of Labor Statistics.

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

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

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

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

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

Crude Oil Production

World crude oil production during August 1982 was 52.2 million barrels per day, down 0.5 million barrels per day (0.9 percent) from the July 1982 level.

Organization of Petroleum Exporting Countries (OPEC) output during August 1982 averaged 17.9 million barrels per day, down 0.6 million barrels per day from the previous month's average. Production by Arab members of OPEC averaged 11.0 million barrels per day, 0.2 million barrels per day lower than the July 1982 level.

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

Petroleum Consumption

Preliminary petroleum consumption data for August 1982 were available for Canada, France, Italy, the United Kingdom, and the United States. In comparison to August 1981, consumption in France, Italy, and the United Kingdom increased but consumption in Canada and the United States declined. The August 1982 U.S. consumption was 0.4 million barrels per day lower than in August 1981.

Petroleum Stocks

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

percent) from stocks held at the end of June 1981. The United States held 1,362 million barrels (41.4 percent) of the June 1982 stocks.

Nuclear Electricity Production

In September 1982, the 19 non-Communist nations with significant nuclear power capacity generated 65.3 billion gross kilowatthours of nuclear-based electricity, up 9.7 percent compared to September 1981 output. During the first three quarters of 1982, generation by these 19 nations was 582.0 billion gross kilowatt-hours, an increase of 7.0 percent from the comparable period in 1981.

During September 1982, three additional reactors became operational: Commonwealth Edison's LaSalle-1 unit, a 1,122-megawatt (MWe) pressurized water reactor; Southern California Edison's San Onofre-2, a 1,127-MWe pressurized water reactor; and New Brunswick (Canada) Electric Power's Point Lepreau, a 680-MWe pressurized heavy water (CANDU) reactor. As of September 30, there were 231 operational, non-Communist power reactors with a collective gross generating capacity of 155.9 million kilowatts (GWe). Of this capacity, 65.5 GWe (42 percent) were associated with the 79 U.S. units.

On the same day that Point Lepreau generated its first electricity, Gentilly-2, Hydro Quebec's 630-MWe CANDU unit, sustained a chain reaction (achieved criticality) for the first time. Another CANDU-type reactor, the 629-MWe South Korean Wolsung unit, began startup testing in September. A 907-MWe West German reactor, Isar, resumed normal operations in September after a yearlong outage while feedwater and steam pipes were replaced.

Part 10

International

Crude Oil Production for Major Petroleum Producing Countries

		Algeria	Iraq	Kuwait¹	Libya	Qatar	Saudi Arabia¹	United Arab Emirates	Arab Members of OPEC ²	Indo- nesia	Iran
					Thous	sand barr	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	AVERAĢE	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 3	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 April	1,150 1,000	3,400 3,300	2,090	2,000	500	9,790	1,695	20,625	1,575	2,350
	May	1,000	3,300	1,570 1,525	1,750 1,750	500 480	9,765 9,775	1,705	19,590	1,580	2,200
	June	1,000	3,300	1,525	1,700	440	9,775	1,765 1,750	19,595 19,540	1,550 1.545	1,700
	July	1,000	3,100	1,375	1,680	460	9,765	1,750	19,080	1,545	1,500 1,700
	August	1,000	3,100	1,465	1,690	465	9,765	1,665	19,150	1,565	1,600
	September	1,000	3.000	1,290	1,680	460	9,740	1,670	18,840	1,565	1,400
	October	1,000	150	1.385	1.665	440	10,255	1,675	16,540	1,585	600
	November	1,000	350	1,505	1,680	475	10,265	1,695	16,930	1,630	800
	December	1,000	450	1,779	1,680	483	10,260	1,706	17,360	1,617	1,360
	AVERAGE	1,012	2,514	1,656	1,787	472	9,900	1,709	19,050	1,577	1,662
1981	January	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 October	550 700	1,100 1,100	855 985	700 700	365	9,155	1,465	14,190	1,600	1,100
	November	750 750	1,100	965 890	900	360 340	9,685	1,480	15,010	1,600	920
	December	800	1,100	895	1,000	340	8,640 8,645	1,365 1,430	13,985 14,210	1,600	930
	AVERAGE	805	1,000	1,125	1,140	405	9,815	1,430	15,764	1,580 1.605	1,200 1,380
1982	lonuone	900	1.500	•	•			•	•		
1902	January February	800 700	1,500	805	1,000	405	8,655	1,450	14,615	1,490	1,100
	March	600	1,500 1,500	840 745	600 600	375 300	8,440 7.145	1,375	13,830	1,450	1,200
	April	600	900	680	700	230	7,145 6,630	1,365 1,215	12,255 10,955	1,400	1,800
	May	620	750	720	800	320 320	5,870	1,215	10,955	1,245 1,240	1,800 2.500
	June	650	750	840	1,000	410	6,670	1,125	11,530	1,305	2,500 2,500
	July	650	800	870	1,300	275	R6,170	1,160	R11,225	1,305	R2,500
	August	700	800	770	1,300	340	5,920	1,155	10,985	1,240	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 August 1982, total production in this region amounted to approximately 240,000 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.

Additional footnotes on following page.

International **Crude Oil Production for Major Petroleum Producing Countries (continued)**

		Nigerla	Vene- zuela	Total OPEC ³	Canada	Mexico	United Kingdom	United States	China	USSR	Other	World
					•	Thousand	barreis pe	r day				
1973	AVERAGE	2,054	3,366	30,989	1,800	465	2	9,208	1,090	8,465	3,655	55,674
1974	AVERAGE	2,255	2,976	30,729	1,684	571	2	8,774	1,315	9,000	3,777	55,852
1975	AVERAGE	1,783	2,346	27,155	1,439	705	12	8,375	1,490	9,625	4,079	52,880
1976	AVERAGE	2,067	2,294	30,738	1,295	831	245	8,132	1,670	10,143	4,258	57,312
1977	AVERAGE	2,085	2,238	31,278	1,320	981	768	8,245	1,874	10,682	4,537	59,685
1978	AVERAGE	1,897	2,166	29,805	1,313	1,209	1,082	8,707	2,082	11,185	4,674	60,057
1979	AVERAGE	2,302	2,356	30,928	1,496	1,461	1,568	8,552	2,122	11,460	4,948	62,535
1980	January	2,155	2,280	29,535	1,515	1,720	1,600	8,675	2,111	11,615	5,060	61,831
	February	2,160	2,200	29,805	1,475	1,725	1,660	8,705	2,127	11,590	5,043	62,130
	March	2,155	1,995	29,100	1,475	1,830	1,670	8,698	2,119	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	2,050	27,175	1,535	1,905	1,625	8,554	2,132	11,660	5,117	59,703
	July	2,095	2,170	27,030	1,520	2,015	1,585	8,547	2,124	11,825	4,865	59,511
	August	2,050	2,210	27,010	1,440	2,000	1,535	8,414	2,143	11,875	5,065	59,482
	September	1,600	2,190	25,955	1,420	2,125	1,540	8,619	2,110	11,950	4,963	58,682
	October	1,879	2,225	23,255	1,311	2,182	1,572	8,532	2,076	11,875	5,231	56,034
	November	2,062	2,230	24,065	1,467	1,901	1,731	8,495	2,088	11,930	5,101	56,778
	December	2,026	2,330	25,050	1,300	2,027	1,795	8,606	2,083	11,850	5,307	58,018
	AVERAGE	2,055	2,168	26,890	1,435	1,936	1,622	8,597	2,114	11,773	5,171	59,538
1981	January	1,900	2,220	25,025	1,390	2,220	1,765	8,540	2,024	11,900	5,111	57,975
	February	1,960	2,195	25,075	1,390	2,120	1,820	8,604	2,025	11,900	5,161	58,095
	March	1,875	2,240	25,190	1,280	2,365	1,885	8,613	2,025	11,900	5,152	58,410
	April	1,625	2,200	24,215	1,330	2,540	1,750	8,557	2,011	11,900	5,122	57,425
	May	1,295	2,200	23,380	1,250	2,545	1,770	8,501	2,025	11,900	5,264	56,635
	June	1,350	1,990	22,945	1,235	2,300	1,765	8,629	2,025	11,900	5,066	55,865
	July	770	1,760	21,620	1,270	2,095	1,750	8,500	2,010	11,900	5,215	54,360
	August	710	1,960	21,050	1,235	2,260	1,760	8,583	2,020	11,900	4,962	53,770
	September	1,065	2,080	20,385	1,265	2,480	1,830	8,604	1,990	11,900	5,166	53,620
	October	1,250	1,970	21,200	1,120	2,490	1,845	8,563	2,020	11,900	5,247	54,385
	November	1,590	2,230	20,575	1,280	2,090	1,840	8,586	2,020	11,900	5,109	53,400
	December	1,820	2,260	21,230	1,380	1,980	1,870	8,585	2,020	11,900	5,135	54,100
	AVERAGE	1,433	2,102	22,624	1,285	2,313	1,811	8,572	2,012	11,909	5,262	55,788
1982	January	1,765	1,985	21,285	1,218	2,315	1,905	8,669	2,020	11,900	5,488	54,800
	February	1,395	1,730	19,950	1,275	2,550	1,955	8,690	2,020	11,900	5,560	53,900
	March	945	1,870	18,615	1,182	2,545	2,000	8,597	2,020	11,900	5,341	52,200
	April	890	1,490	16,725	928	2,780	2,110	8,652	2,025	11,900	5,480	50,600
	May	1,310	1,480	17,075	1,114	2,715	2,085	8,660	2,025	11,900	5,526	51,100
	June	1,645	1,500	18,845	1,330	2,790	2,140	8,681	2,025	11,900	5,489	53,200
	July	1,280	1,800	R18,450		2,790	R2,085	8,649	2,025	11,900 11,900	R5,566 5,504	R52,700 52,200
	August	1,105	2,000	17,895	1,300	2,795	2,080	8,701	2,025	11,800	5,504	32,200

Footnotes continued.

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

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

R = Revised data.

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

Petroleum Consumption for Major Non-Communist Industrialized Countries¹

		Canada	France ²	Italy	Japan	United Kingdom	United States	West Germany	Other IEA ³	Total IEA¹
					Thou	ısand barrels p	oer day			
1973	AVERAGE	1,597	2,219	1,525	5,000	1,958	17,308	2,693	4,069	34,150
1974	AVERAGE	1,630	2,094	1,521	4,872	1,829	16,653	2,408	4,047	32,960
1975	AVERAGE	1,595	1,925	1,468	4,568	1,633	16,322	2,319	3,905	31,810
1976	AVERAGE	1,647	2,075	1,503	4,786	1,601	17,461	2,507	4,265	33,770
1977	AVERAGE	1,661	1,973	1,476	5,015	1,655	18,431	2,478	4,214	34,930
1978	AVERAGE	1,701	2,077	1,551	5,115	1,683	18,847	2,596	4,387	35,880
1979	AVERAGE	1,766	2,107	1,607	5,173	1,690	18,513	2,664	4,487	35,900
1980	January	1,820	2,465	1,778	5,255	1,769	18,851	2,690	4,337	36,500
	February March	1,930	2,444	1,864	5,722	1,621	18,817	2,410	4,736	37,100
	April	1,720 1,600	1,982 2,110	1,657	5,433	1,585	17,377	2,430	4,398	34,600
	May	1,590	1,853	1,541 1,448	4,626 4,376	1,472 1,348	16,784	2,680	4,197	32,900
	June	1,660	1,848	1,511	4,376	1,346	16,238	2,230	3,870	31,100
	July	1,680	1,450	1,537	4,250	1,200	16,187 16,008	2,220 2,420	4,012	31,100
	August	1,650	1,220	1,310	3,910	1,120	15,753	2,420	3,988 3,807	31,100
	September	1,710	1,740	1,650	4,120	1,270	16,598	2,130	3,607 4,112	29,700 32,000
	October	1,770	2,050	1,670	4,250	1,430	16,995	2,230	3,855	32,200
	November	1,720	2,040	1,530	4,550	1,440	16,702	2,110	3,948	32,200
	December	1,940	2,410	1,740	5,350	1,480	18,410	2,190	4,390	35,500
	AVERAGE	1,730	1,965	1,602	4,680	1,420	17,056	2,360	4,152	33,000
1981	January	1,760	2,310	1,880	4,980	1,400	18,430	2,230	4,420	35,100
	February	1,770	2,170	2,195	5,350	1,460	16,989	2,510	4,126	34,400
	March	1,550	1,790	1,895	5,020	1,430	15,907	2,100	3,598	31,500
	April	1,600	1,500	1,785	4,140	1,290	15,350	1,810	3,925	29,900
	May	1,490	1,670	1,410	3,600	1,190	15,353	1,880	3,977	28,900
	June	1,635	1,600	1,510	3,915	1,210	16,095	2,155	3,880	30,400
	July	1,620	1,450	1,580	4,160	1,170	15,682	2,150	4,138	30,500
	August	1,630	1,160	1,360	4,100	1,125	15,263	2,111	3,711	29,300
	September	1,595	1,425	1,715	4,060	1,285	15,655	2,085	3,905	30,300
	October	1,585	1,655	1,600	4,085	1,390	15,822	2,305	4,013	30,800
	November December	1,595	2,010	1,650	4,610	1,470	15,593	2,030	4,052	31,000
		1,635	2,215	1,930	5,425	1,380	16,596	2,100	3,934	33,000
4000	AVERAGE	1,615	1,745	1,705	4,445	1,325	16,058	R2,120	4,032	R31,300
1982	January	1,530	1,770	1,800	4,645	1,400	15,890	R1,935	R3,800	31,000
	February	1,715	1,815	1,795	5,275	1,465	15,941	R2,230	R4,179	32,600
	March	1,510	1,940	1,805	4,640	1,560	15,560	R2,340	R4,185	31,600
	April	1,350	1,730	1,560	4,015	1,340	16,048	2,125	3,962	30,400
	May June	1,325	1,580	1,510	3,515	1,210	14,845	1,770	3,625	27,800
	July July	1,430 1,360	1,505	1,520	R3,780	1,280	14,931	2,115	R3,704	28,900
	August	1,510	1,460	1,475	4,015	1,235	14,771	1,955	3,689	28,500
	August	1,010	1,295	1,410	NA	1,165	14,838	NA	NA	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.

³Not 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.

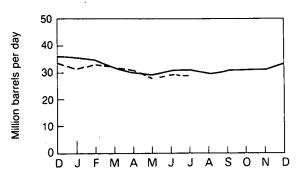
R=Revised data. NA=Not available.

Note: Data for 1980 through 1982 are preliminary.

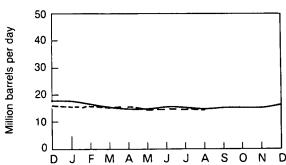
Sources: • See the last page of this section.

Petroleum Consumption

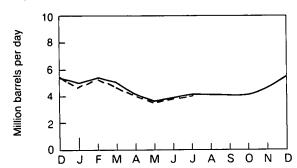
Total IEA



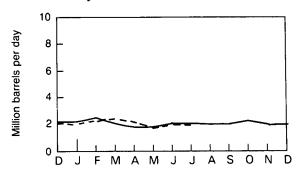
United States



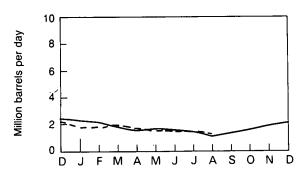
Japan*



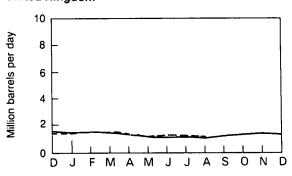
West Germany



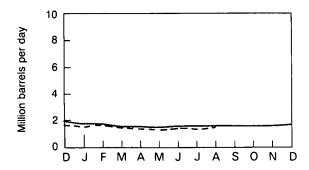
France**



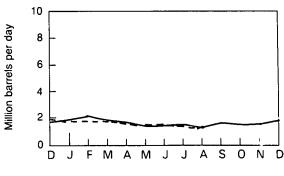
United Kingdom

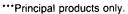


Canada



Italy***







^{*}Excludes liquefied petroleum gases and condensates.

^{**}Not a member of IEA.

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 barrels	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	3,132
1979		156	231	163	457	163				•
			_			103	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	R557	R3,335
	April	161	220	155	442	160	1,367	287	NA	NA
	May	168	233	164	463	167	1,387	300	NA	NA
	June	171	239	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	R632	R3,705
	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	R610	R3,573
1981	January	169	234	155	479	168	1,388	319	NA	NA
	February	162	235	184	457	170	1,389	312	NA	NA
	March	165	227	158	452	164	1,401	317	R581	R3.465
	April	174	235	169	484	165	1,415	322	NA	NA
	May	176	229	173	496	162	1,438	321	NA	NA
	June	179	225	171	484	158	1,430	312	R598	R3,557
	July	179	228	177	476	153	1,439	305	NA	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	R575	R3,520
1982	January	163	222	165	464	NA	1,461	280	NA	NA
	February	156	215	162	460	NA	1,431	280	NA	NA
	March	R149	207	R158	R480	133	1,401	R279	524	3,331
	April	148	201	154	483	NA	1,350	312	NA	NA
	May	147	193	154	484	NA	1,349	310	NA NA	NA
	June	R131	200	156	R466	141	1,362	R288	544	3,288
	July	NA	205	160	460	134	1,394	286	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.

*"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.

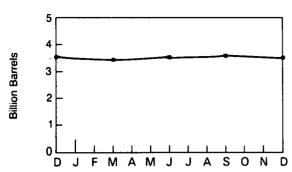
R = Revised data. NA = Not available.

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

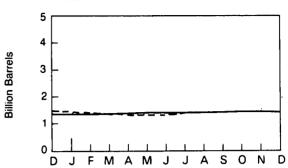
Sources: . See the last page of this section.

Petroleum Stocks

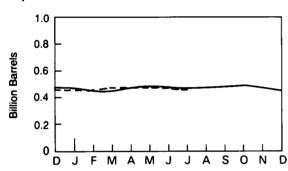
Total OECD



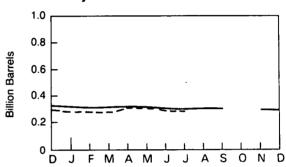
United States



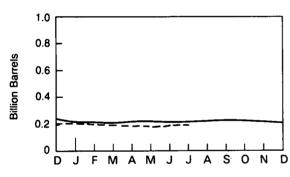
Japan



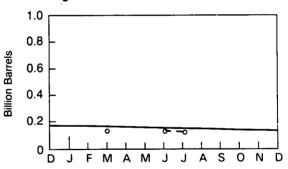
West Germany



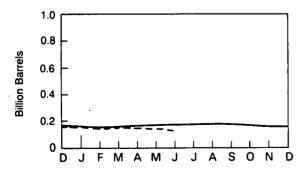
France



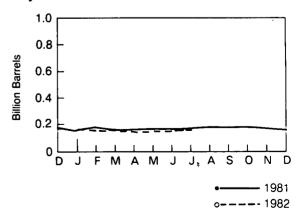
United Kingdom



Canada



Italy



International

Nuclear Electricity Generation by Non-Communist Countries¹

		Argen- tina	Belgium	Brazil	Canada	Finland	France	India	italy	Japan	Nether- lands	Paki- stan
						Billion gro	ss kilowat	t-hours				
1973	TOTAL	0	0	0	18.3	0	11.6	1.9	3.1	9.4	1.1	0.5
1974	TOTAL	1.0	0.1	0	15.4	0	14.7	2.5	3.4	18.1	3.3	0.6
1975	TOTAL	2.5	6.8	0	13.2	0	18.3	2.5	3.8	22.2	3.3	0.5
1976	TOTAL	2.6	10.0	0	18.0	0	15.8	3.2	3.8	36.8	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	(8)
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 April	0 0.1	1.0	0	3.7	0.8	5.1	0.2	0.5	8.0	0.4	0
	May	0.1	0.5 0.7	0 0	3.2 2.5	0.8	5.0	0.3	0.4	5.6	0.3	0
	June	0.2	1.1	0	2.5 3.1	0.3 0	4.2 4.1	0.3	0.3	6.0	0.3	0
	July	0.2	1.3	Ö	3.6	0.4	4.1	0.2 0.2	0.1	6.7	0.3	0
	August	0.3	1.3	ŏ	3.9	0.4	3.2	0.2	0.1 0.1	7.8 8.6	0.4	(s)
	September	0.3	1.1	ŏ	3.1	0.4	4.5	0.3	0.1	7.0	0.4	(s)
	October 1	0.3	0.9	ŏ	3.3	0.5	5.1	0.3	0.1	7.0 6.0	0.4 0.3	(s)
	November	0.3	1,1	Ö	3.4	0.6	5.8	0.2	ŏ	5.4	0.3	0
	December	0.3	1.2	Ō	3.5	1.2	8.5	0.2	ŏ	6.3	0.3	(s) (s)
	TOTAL	2.3	12.5	0	40.4	7.0	61.2	2.9	2.2	82.8	4.2	0.1
1981	January	0.3	1.2	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	ő
	April	0.2	0.7	0	3.3	1.5	8.3	0.3	0.6	7.9	0.4	Ŏ
	May	0.2	1.2	0	3.4	1.0	8.9	0.4	0.3	8.0	0.4	(s)
	June	0.2	1.2	0	3.6	0.7	8.3	0.3	0.1	6.7	0.4	(s)
	July August	0.3 0.2	1.3	0	4.0	0.8	8.4	0.3	0.3	8.3	0.4	(s)
	September	0.2	1.2 0.9	0	4.0	1.4	7.7	0.2	0.1	8.5	0.4	(s)
	October	0.3	1.0	0	3.3 3.4	1.5	8.5	0.2	0.1	6.4	0.4	(s)
	November	0.2	1.3	0	3.4	1.4 1.3	8.1 9.3	0.2 0.2	0.1	5.6	0.4	(s)
	December	0.2	1.3	ŏ	4.1	1.2	9.3 11.0	0.2	0.1 0.4	5.3	0.4	(s)
	TOTAL	2.8	12.8	Ö	43.3	14.5	105.2	3.1	2.7	6.1 86.0	0.3 3.7	(s) 0.2
1982	January	0.3	1.3	0	4.1	1.5	11.0	0.0				
	February	0.2	0.8	Ö	3.2	1.5	11.0 10.0	0.2	0.6	8.1	0.4	(s)
	March	0.3	0.5	Õ	3.5	1.7	10.6	0.2 0.2	0.7 0.7	7.7	0.1	(s)
	April	0.3	1.0	(s)	3.7	1.6	10.0	0.2	0.7	9.2 9.7	(s) 0.3	0
	May	0.3	1.3	(s)	3.1	1.3	9.0	0.2	0.5	9.7 9.5	0.3	0
	June	0.3	1.2	(s)	3.3	0.9	7.7	0.1	0.6	9.5	0.4	Ö
	July	0.2	1.3	Ó	3.6	1.2	8.3	0.1	0.6	9.8	0.4	ŏ
	August	0	1.2	0	3.9	1.5	7.0	0.2	0.4	9.7	0.4	(s)
	September	(s)	0.7	0	3.2	1.5	7.2	0.1	0.6	8.0	0.4	(s)

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

¹Figures are for gross electricity generation as opposed to net electricity generation. Net figures are generally less than gross figures by about 5 percent, which represents the energy consumed by the generating plants themselves.

(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 Kingdom ²	West Germany	Non- Communist World Excluding U.S.	United States	Total Non- Communist World
						Billion gr	oss kilowati	t-hours			
1973	TOTAL	0	6.5	2.1	6.2	0	28.0	11.9	100.7	88.0	188.7
1974	TOTAL	0	7.2	1.6	7.0	0	34.0	12.0	121.1	104.5	225.6
	TOTAL	0	7.5	12.0	7.7	0	30.5	21.7	152.7	181.8	334.5
1975	-			16.0	7.9	0	36.8	24.5	187.3	201.7	389.1
1976	TOTAL	0	7.6			-				263.3	471.0
1977	TOTAL	0.1	6.5	19.9	8.1	0.1	38.1	35.8	207.8		
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 19.8	53.4 47.1
	April	0.4	0.4	1.9	1.4	0.7	2.7 2.6	3.6 3.5	27.3 25.1	19.6	44.7
	May	0.4	0.4	1.6	1.4 0.6	0.4 0.5	2. 0 2.8	3.5 2.9	23.1 24.7	19.4	44.1
	June	0.1 0.4	0.3 0.3	1.6 1.3	0.6	0.5	2.0	3.0	27.2	22.4	49.6
	July	0.4	0.3	1.3	0.7	0.8	2.6	2.7	27.2	25.7	52.9
	August September	0.3	0.4	2.1	1.3	0.8	3.1	3.2	28.4	24.8	53.2
	October	0.4	0.4	2.7	1.4	0.8	2.7	3.1	28.2	25.7	53.9
	November	0.4	0.5	3.4	1.4	0.6	3.2	4.1	30.8	22.0	52.8
	December	0.3	0.7	3.6	1.5	0.5	4.2	5.3	37.5	23.1	60.7
	TOTAL	3.5	5.2	26.7	14.3	8.2	37.2	43.7	354.4	265.5	619.9
1981	January	0.3	0.8	3.5	1.5	0.8	3.8	5.0	39.7	25.7	65.4
	February	0	0.6	3.6	1.4	0.7	3.4	4.6	36.2	22.6	58.8
	March	0	0.7	3.7	1.5	8.0	4.2	4.9	39.1	23.1	62.2
	April	0	0.6	3.3	1.4	0.8	2.8	4.4	36.5	21.7	58.2
	May	0.2	0.8	2.8	1.4	0.8	2.5	4.3	36.6	20.9	57.4 57.1
	June	0.4	0.8	2.8	0.7	8.0	3.3	4.1 5.2	34.5 36.1	22.6 24.8	61.0
	July	0.4	1.1	1.4	0.6	0.8 0.8	2.5 2.5	5.2 3.9	36.0	28.3	64.2
	August	0.4	1.0 0. 6	2.6 3.0	1.0 1.3	0.8 0.8	2.5 3.1	3.9	33.9	25.7	59.6
	September October	0.3 0.3	1.2	3.0	1.5	1.2	2.7	4.0	34.7	21.6	56.3
	November	0.3	0.6	3.6	1.4	1.0	3.1	4.3	36.0	24.0	60.1
	December	0.4	0.7	4.1	1.5	1.1	4.9	5.4	43.1	27.5	70.6
	TOTAL	2.9	9.4	37.7	15.2	10.7	38.9	53.4	442.4	288.5	730.9
1982	January	0.4	1.0	4.0	1.5	0.8	3.4	5.9	44.5	27.1	71.6
	February	0.4	0.9	3.3	1.3	1.0	3.5	5.4	40.0	21.3	61.3
	March	0.4	0.5	3.8	1.5	1.0	4.1	5.3	43.2	24.0	67.1
	April	0.2	0.4	3.8	1.4	0.8	3.3	5.3	42.5	22.8	65.3
	May	0	0.5	2.5	1.2	0.8	2.6	5.6	39.0	22.8	61.8 60.9
	June	(s)	0.7	1.9	0.6	1.0	3.3	4.2	35.6	25.3 26.8	60.9 64.4
	July	0.3	0.6	1.2	0.9	1.2 1.2	3.3 3.7	4.5 4.5	37.6 37.7	26.6 26.4	64.4 64.1
	August	0.4 0.4	0.7 0.7	2.0 3.7	1.0 1.2	1.3	3.7 4.2	4.5 5.4	38.6	26.7	65.3
	September	0.4	U.7	3.1	1.6	1.5	7.2	J	30.0		34. -

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 1980-1992 monthly data teacopt closs and countries using above sources.
 1980-1982 monthly data for World: Sum of data for all countries using above sources.
 Petroleum Consumption: Central Intelligence Agency, "International Energy Statistical Review" (except the United States).
 United States data: Energy Information Administration, Petroleum Supply Monthly.

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

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

Strategic Petroleum Reserve

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

Synthetic Natural Gas (SNG)

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

Unaccounted for Crude Oil

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

Wells, Exploratory and Development

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

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Conversion Factors

Approximate Heat Content of Various Fuels		1973	1974	1975	1976	1977	1978	1979	1980	1981-82;
Anthracite		00.470	22,560	23,390	22,770	23.180	23,520	23,590	23,350	23.350
Production	Thousand Btu/short ton	23,170		25,390	25,400	25,100	25,400	25,400	25,400	25,400
Imports and exports	Thousand Btu/short ton	25,400	25,400	21,740	22,150	22,690	22,970	22,700	22,160	22,160
Consumption, average	Thousand Btu/short ton	22,710	21,950	17.060	17,530	17,240	17,100	17,450	17,650	17,650
Electric utility consumption	Thousand Btu/short ton	17,920	17,200	23,650	23,840	24,990	25,170	25,200	23,740	23,740
Non-utility consumption	Thousand Btu/short ton	24,340	23,750	23,030	23,040	24,000	20,,,,	45,255	,	
Bituminous coal and lignite		04.040	00 700	23,200	23,150	22,700	22,430	22,590	23,150	23,150
Production	Thousand Btu/short ton	24,010	23,730	25,200	25,000	25,000	25,000	25,000	25,000	25,000
Imports	Thousand Btu/short ton	25,000	25,000	25,000	27,000	27,000	27,000	27,000	26,180	26,180
Exports	Thousand Btu/short ton	27,000	27,000	22,800	22,750	22,330	22.140	22,200	22,000	22,000
Consumption, average	Thousand Btu/short ton	23,650	23,070		21,690	21,480	21,280	21,380	21,300	21,300
Electric utility consumption	Thousand Btu/short ton	22,260	21,800	21,660	25,870	25,130	25,070	25,060	25,060	25,060
Non-utility consumption	Thousand Btu/short ton	26,840	26,120	25,810	26,000	26,000	26,000	26,000	26,000	26,000
Coal coke	Thousand Btu/short ton	26,000	26,000	26,000	20,000	20,000	20,000	20,000	20,000	
Crude petroleum ¹			- 000	5 000	5.800	5,800	5.800	5,800	5,800	5.800
Production	Thousand Btu/barrel	5,800	5,800	5,800	5,808	5,810	5,802	5,810	5,812	5,812
Imports	Thousand Btu/barrel	5,817	5,827	5,821	5.800	5,800	5,800	5.800	5,800	5,800
Exports	Thousand Btu/barrel	5,800	5,800	5,800	3,600	3,000	3,000	0,000	0,000	-,
Crude petroleum and products			F 004	5.050	5,856	5.834	5,839	5,810	5,796	5,796
Imports, average	Thousand Btu/barrel	5,897	5,884	5,858	5,745	5,634	5,808	5.832	5,820	5,820
Exports, average	Thousand Btu/barrel	5,752	5,774	5,748	5,745	5,797	3,000	3,002	0,020	0,020
Petroleum products				5,494	5,504	5.518	5,519	5.494	5.479	5,479
Consumption, average	Thousand Btu/barrel	5,515	5,504		5,383	5.384	5,316	5.281	5,270	5.230
Residential and Commercial	Thousand Btu/barrel	5,381	5,371	5,354 5,522	5,534	5,546	5,553	5,485	5.443	5,512
Industrial	Thousand Btu/barrel	5,559	5,531	5,395	5,534	5,404	5,412	5,429	5,441	5,429
Transportation	Thousand Btu/barrel	5,398	5,396	6,229	6,235	6.231	6,227	6,243	6.249	6.244
Electric Utility		6,223	6,215	5,935	5,980	5.908	5,955	5,811	5,748	5.748
Imports	Thousand Btu/barrel	5,983	5,959		5,743	5,796	5,814	5,864	5,841	5,841
Exports	Thousand Btu/barrel	5,752	5,773 3,730	5,747 3,715	3,711	3,790	3,669	3,680	3,674	3,674
LPG consumption average ²	Thousand Btu/barrel	3,746	3,730	3,715	3,711	3,077	0,000	0,000	0,07	-1
Natural gas plant liquid		4.040	4.044	3,984	3,964	3,941	3,925	3,955	3,914	3,914
production	Thousand Btu/barrel	4,049	4,011	3,964	3,504	3,541	0,020	0,000	0,0	-,
Natural gas, dry		4.004	1 004	1,021	1.020	1,021	1,019	1.021	1,026	1,026
Production and consumption	Btu/cubic foot	1,021	1,024	1,021	1,023	1,029	1.034	1.034	1.034	1.034
Electric utility consumption	Btu/cubic foot	1,024	1,022 1.024	1,020	1,023	1,023	1,016	1,018	1.024	1.024
Non-utility consumption		1,020	1,024	1,026	1,015	1.026	1,030	1,037	1,022	1,022
Imports	Btu/cubic foot	1,026		1,028	1,023	1.013	1.013	1,013	1,013	1,013
Exports	Btu/cubic foot	1,023	1,016	1,014	1,010	1,010	1,010	.,	.,	•
Natural gas, wet		4 000	1.097	1,095	1,093	1,093	1.088	1,092	1.099	1,099
production	Btu/cubic foot	1,093	10.442	10,406	10,373	10,435	10,361	10.353	10,353	10,353
Hvdropower ^a	. Btu/kWh	10,389	11,161	11,013	11,047	10,769	10,941	10,640	10,640	10,640
Nuclear powers	Btu/kWh	10,903	21,674	21,611	21,611	21,611	21,611	21,553	21,629	21,629
Geothermal powers		21,674	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412
Electricity consumption	. Btu/kWh	3,412	3,412	5,412	0,412	3,41E	2,412	-,	.,	

Approximate Heat Content of Refined Petroleum Products

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 400°	5,248
Other Oils over 400°	5,825
Still gas	6,000
Petroleum coke	6,024
Plant condensate	5.418
Propane	3.836
Residual fuel oil	6,287
Road oil	6,636
Special naphtha	5,248
Still gas	6,000
Unfinished oils	5,825
Unfractionated stream	5,418
Way	5,537

Units of Measure

Weight

Thousand Btu/barrel

5,796

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

2,000 pounds 1 short ton contains

Conversion Factors for Crude Oil (Average Gravity)

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

Conversion Factors for Uranium

1 short ton (UF ₆) C	ontains 0.613	metric tons of metric tons of metric tons of	uranium
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Miscellaneous..

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

mixture, and isobutane.

There is no generally accepted practice for measuring hydropower thermal conversion rates. The hydropower factors on this page are the prevailing rate factors at fossil fuel steam electric powerplants. By using the heat rate factor, it is possible to evaluate fossil fuel requirements for replacing hydropower production during periods of drought. Furthermore, it allows for better comparisons with certain other countries such as Norway where hydropower is the principal means for producing electricity. Similarly, the nuclear power and geothermal power conversion factors represent the thermal conversion equivalent of the uranium and geothermal steam consumed at powerplants. The heat content of a kilowatt-hour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatt-hour. It is not possible to determine the hydroelectric powerplant efficiency by using these factors. The efficiency factor for hydroelectric powerplants is derived by multiplying generation efficiency by turbine efficiency. The average hydroelectric powerplant efficiency is 89 recreated.

percent.
• 60 percent butane and 40 percent propane.

⁷⁰ percent ethane and 30 percent propane.

[‡] Preliminary data.

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