

DOE/0035/10  
NTISUB/D/127-010

NOV 20 1978

**October 1978**

# Monthly Energy Review



**U.S. Department of Energy**  
Energy Information Administration

The *Monthly Energy Review* is prepared by the Office of Energy Data, Energy Information Administration, U.S. Department of Energy, under the direct supervision of Frank E. Lalley.

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

This periodical is available on a subscription basis from the following:

Subscriptions  
National Technical Information Service  
5285 Port Royal Road  
Springfield, VA 22161

For addresses within the North American Continent, the cost is \$50 per year (12 issues), or \$68 per year for priority mailing. For addresses outside the North American Continent, the cost is \$100 per year. Single copies are available at \$6.25 each within the North American Continent and \$12.50 each outside the North American Continent.

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Feature articles appearing in previous issues:

Energy Consumption—March 1975

Nuclear Power—April 1975

The Price of Crude Oil—June 1975

U.S. Coal Resources and Reserves—July 1975

Propane, A National Energy Resource—  
September 1975

Short-Term Energy Supply and Demand  
Forecasting at FEA—October 1975

Curtailments of Natural Gas Service—January  
1976

Home Heating Conservation Alternatives and the  
Solar Collector Industry—March 1976

Trends in United States Petroleum Imports—  
September 1976

Crude Oil Entitlements Program—January 1977

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## Overview

Domestic consumption of energy during July increased 3.1 percent over July of 1977, and 2.6 percent over last month's consumption. For the first 7 months of 1978, domestic consumption was up 3.4 percent from the same period in 1977.

Domestic production of energy during July totaled 5.1 quadrillion Btu (or 28.4 million barrels per day of crude oil equivalent\*). July production decreased by 4.0 percent from last month's production compared to a 4.6 percent decrease from June to July of 1977. For the first 7 months of 1978, domestic production of energy was down 0.7 percent from the same period in 1977.

Imports of fossil fuels during July totaled 1.5 quadrillion Btu (or 8.4 million barrels per day of crude oil equivalent\*). For the first 7 months of 1978, imports of fossil fuels were down 11.9 percent from the same period in 1977 mainly due to the increase in Alaskan oil production and to the drawdown in primary stocks.

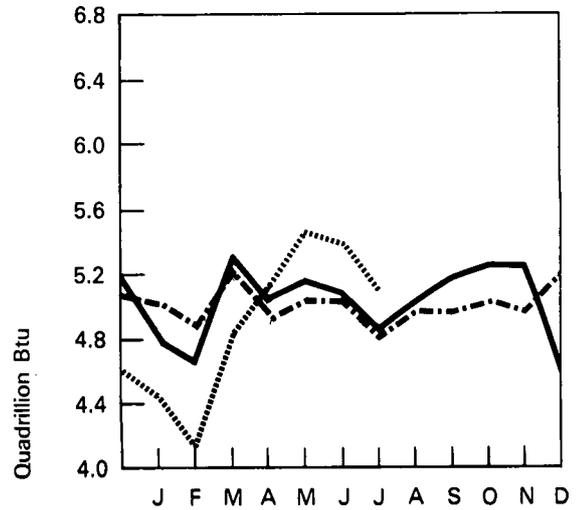
During June 1978, consumption of Hydroelectric, Nuclear Electric and Geothermal power increased 20.5 percent over June 1977. In July 1978, world crude oil production averaged 59.5 million barrels per day, 49.3 percent of which was produced by OPEC nations.

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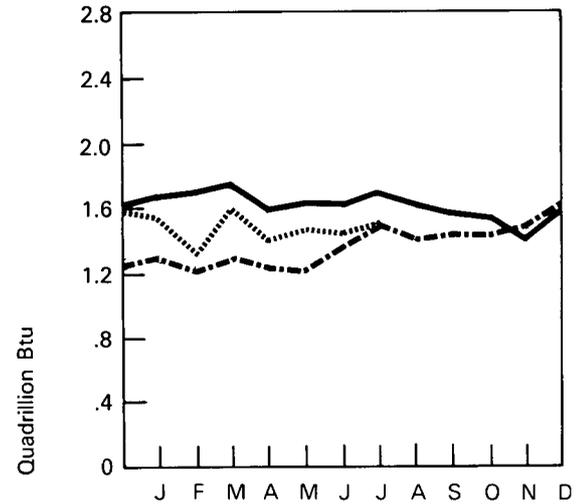
\*One barrel of crude oil contains approximately 5.8 million Btu.

	Domestic Production of Energy*	Domestic Consumption of Energy***	Imports of Fossil Fuels**	Exports of Fossil Fuels****
	Quadrillion Btu			
<b>1972 TOTAL</b>	<b>62.798</b>	<b>71.615</b>	<b>11.328</b>	<b>2.088</b>
<b>1973 TOTAL</b>	<b>62.421</b>	<b>R74.586</b>	<b>14.552</b>	<b>2.026</b>
<b>1974 TOTAL</b>	<b>61.203</b>	<b>R72.725</b>	<b>14.234</b>	<b>2.198</b>
<b>1975 TOTAL</b>	<b>60.014</b>	<b>R70.646</b>	<b>13.962</b>	<b>2.138</b>
<b>1976</b>	January 5.082	R7.189	1.307	.134
	February 4.864	6.267	1.225	.130
	March 5.218	R6.261	1.301	.148
	April 4.945	R5.737	1.249	.203
	May 5.052	5.664	1.232	.193
	June 5.046	5.697	1.394	.222
	July 4.806	5.891	1.507	.183
	August 4.960	5.835	1.425	.164
	September 4.954	R5.612	1.472	.196
	October 5.035	6.125	1.462	.201
	November 4.957	R6.607	1.504	.214
	December 5.179	R7.523	1.623	.180
<b>TOTAL</b>	<b>60.097</b>	<b>74.409</b>	<b>16.701</b>	<b>2.170</b>
<b>1977</b>	January 4.789	R7.685	1.696	.100
	February 4.645	R6.503	1.712	.127
	March 5.321	R6.399	1.780	.135
	April 5.003	R5.817	1.603	.197
	May 5.150	R5.827	1.638	.210
	June 5.067	R5.923	1.633	.211
	July 4.832	R6.030	1.715	.195
	August 5.032	R6.126	1.638	.165
	September 5.189	R5.920	1.588	.192
	October 5.252	R6.113	1.587	.186
	November 5.247	R6.328	1.518	.171
	December 4.616	R7.283	1.606	.162
<b>TOTAL</b>	<b>60.142</b>	<b>R75.953</b>	<b>19.715</b>	<b>2.043</b>
<b>1978</b>	January 4.455	R7.556	1.547	.076
	February 4.152	R6.910	1.373	.055
	March 4.866	R6.797	1.600	.062
	April 5.178	R5.990	R1.421	.132
	May 5.497	R6.148	R1.461	.181
	June 5.320	R6.057	R1.453	NA
	July †5.108	6.217	1.515	NA
<b>TOTAL</b> (Year to date)	<b>34.576</b>	<b>45.675</b>	<b>10.370</b>	<b>.506</b>

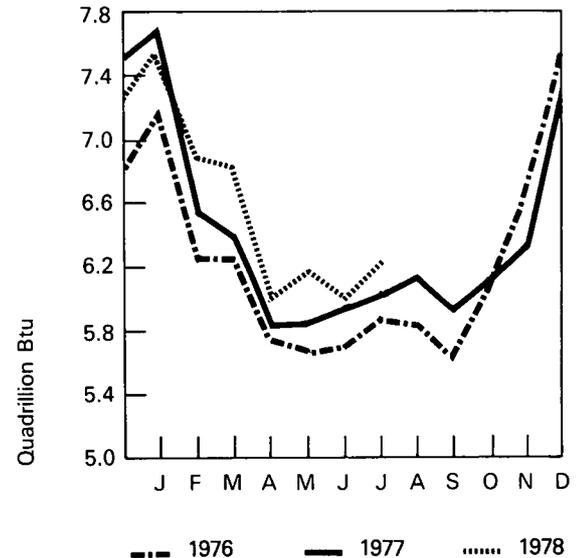
### Domestic Production of Energy



### Imports of Fossil Fuels



### Domestic Consumption of Energy



\*See Explanatory Note 1.  
 \*\*See Explanatory Note 2.  
 \*\*\*See Explanatory Note 3.  
 \*\*\*\*See Explanatory Note 4.

†Preliminary data.  
 ††Partially estimated.  
 =Revised data.

NA = Not available.  
 Source: Energy Information Administration (EIA) calculations based on data appearing elsewhere in this publication.

## Energy Consumption

Domestic energy consumption in July 1978 was 6.2 quadrillion Btu, 3.1 percent more than in July 1977, and 5.5 percent more than in July 1976. The sectoral breakdown for July is not yet available.

In June 1978 the combined residential/commercial sector consumed 2.0 quadrillion Btu, 3.6 percent more than in June 1977. Industrial energy consumption for June 1978 was 2.3 quadrillion Btu, 0.2 percent more than in June 1977. Transportation consumption in June 1978 was 1.7 quadrillion Btu, up 3.5 percent from the June 1977 level.

There has been a minor improvement in the consumption section this month: Monthly industrial hydroelectric power consumption is now extracted from FPC form 4 whereas in the past, annual totals were divided by 12 to obtain monthly figures.

## Cooling Degree-Days

For the period August 28 through October 1, 1978, the nation accumulated 33 percent more cooling degree-days than normal and 4 percent more than for the same period in 1977.

National average cumulative cooling degree-days for the period January 1 through October 1, 1978, were 10 percent above normal but 5 percent below the level accumulated during the same period in 1977.

# Energy Consumption

## Domestic Energy Consumption by Primary Energy Type

		Coal*	Natural Gas (dry)	Petroleum	Hydro-electric Power**	Nuclear Electric Power	Geo-Thermal Power	Total***	Cumulative Total***
Quadrillion (10 <sup>15</sup> ) Btu									
<b>1972</b>	<b>TOTAL</b>	<b>12.396</b>	<b>22.699</b>	<b>32.966</b>	<b>2.946</b>	<b>0.576</b>	<b>0.032</b>	<b>71.615</b>	
<b>1973</b>	<b>TOTAL</b>	<b>13.286</b>	<b>22.512</b>	<b>34.852</b>	<b>R3.005</b>	<b>0.888</b>	<b>0.043</b>	<b>R74.586</b>	
<b>1974</b>	<b>TOTAL</b>	<b>12.948</b>	<b>21.732</b>	<b>33.468</b>	<b>R3.309</b>	<b>1.215</b>	<b>0.053</b>	<b>R72.725</b>	
<b>1975</b>	<b>TOTAL</b>	<b>12.828</b>	<b>19.948</b>	<b>32.742</b>	<b>R3.219</b>	<b>1.839</b>	<b>0.070</b>	<b>R70.646</b>	
<b>1976</b>	January	1.215	2.337	3.177	R0.282	0.172	0.007	R7.189	R7.189
	February	1.075	1.977	2.791	R0.266	0.153	0.007	6.267	R13.456
	March	1.115	1.755	2.948	0.287	0.149	0.007	R6.261	R19.718
	April	1.065	1.538	2.749	R0.262	0.117	R0.006	R5.737	R25.455
	May	1.070	1.463	2.722	0.276	0.127	R0.006	5.664	R31.119
	June	1.111	1.362	2.774	0.276	0.168	R0.006	5.697	R36.816
	July	1.185	1.399	2.829	0.281	0.189	0.007	5.891	R42.707
	August	1.196	1.343	2.835	0.258	0.196	0.007	5.835	R48.542
	September	1.096	1.328	2.776	0.222	0.184	0.007	R5.612	R54.154
	October	1.139	1.653	2.912	0.229	0.185	R0.006	6.125	R60.279
	November	1.193	1.912	3.107	0.216	0.172	R0.005	R6.607	R66.886
	December	1.292	2.277	3.503	0.221	0.225	R0.006	R7.523	74.409
	<b>TOTAL</b>	<b>13.751</b>	<b>20.345</b>	<b>35.123</b>	<b>3.075</b>	<b>2.037</b>	<b>0.078</b>	<b>74.409</b>	
<b>1977</b>	January	1.286	2.434	3.489	R0.233	0.236	R0.007	R7.685	R7.685
	February	1.140	1.829	3.143	R0.176	0.209	0.006	R6.503	R14.188
	March	1.144	1.727	3.076	R0.224	0.220	R0.007	R6.399	R20.587
	April	1.054	1.436	2.897	R0.212	0.212	0.006	R5.817	R26.404
	May	1.120	1.379	2.890	R0.213	0.220	0.006	R5.827	R32.231
	June	1.177	1.337	2.976	R0.197	0.229	0.006	R5.923	R38.154
	July	1.278	1.330	2.990	R0.193	0.233	R0.007	R6.030	R44.184
	August	1.247	1.370	3.068	R0.192	0.243	0.006	R6.126	R50.309
	September	1.161	1.431	2.924	R0.189	0.209	R0.007	R5.920	R56.229
	October	1.148	1.520	3.038	R0.197	0.203	R0.007	R6.113	R62.342
	November	1.147	1.696	3.040	R0.231	0.207	R0.007	R6.328	R68.670
	December	1.228	2.124	3.415	R0.255	0.253	R0.007	R7.283	R75.953
	<b>TOTAL</b>	<b>14.129</b>	<b>19.613</b>	<b>36.947</b>	<b>R2.513</b>	<b>2.674</b>	<b>0.078</b>	<b>R75.953</b>	
<b>1978</b>	January	1.239	2.400	3.355	R0.279	0.275	0.007	R7.556	R7.556
	February	1.050	2.158	3.212	R0.251	0.233	0.006	R6.910	R14.466
	March	1.008	1.927	3.344	R0.275	0.239	0.005	R6.797	R21.263
	April	1.053	R1.543	R2.921	R0.282	0.187	0.004	R5.990	R27.253
	May	1.140	R1.380	R3.089	R0.318	0.218	0.004	R6.148	R33.401
	June	R1.191	1.295	3.048	R0.281	R0.236	0.005	R6.057	R39.458
	July	1.278	1.336	3.058	0.273	0.267	0.005	6.217	45.675
	<b>TOTAL</b> (7 months)	<b>7.958</b>	<b>12.040</b>	<b>22.027</b>	<b>1.959</b>	<b>1.656</b>	<b>0.035</b>	<b>45.675</b>	

\*Includes bituminous coal, lignite, anthracite coal, and net coke imports.

\*\*Includes utility production, industrial production, and net imports.

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

R=Revised.

Source: EIA calculations based on data appearing elsewhere in this publication.

## Domestic Energy Consumption by Economic Sector\*

		Residential/ Commercial	Industrial	Transportation	Total**
Quadrillion (10 <sup>15</sup> ) Btu					
<b>1973</b>	<b>TOTAL</b>	<b>26.540</b>	<b>R29.169</b>	<b>18.877</b>	<b>R74.586</b>
<b>1974</b>	<b>TOTAL</b>	<b>25.895</b>	<b>R28.570</b>	<b>18.261</b>	<b>R72.725</b>
<b>1975</b>	<b>TOTAL</b>	<b>26.177</b>	<b>R26.110</b>	<b>18.359</b>	<b>R70.646</b>
<b>1976</b>	January	3.113	R2.423	1.653	R7.189
	February	2.692	2.112	1.463	6.267
	March	2.435	R2.201	1.626	R6.261
	April	2.089	2.068	1.580	R5.737
	May	1.920	2.191	1.553	5.664
	June	1.869	2.229	1.599	5.697
	July	R1.975	2.280	1.637	5.891
	August	R1.982	2.262	1.592	5.835
	September	1.844	R2.211	1.558	R5.612
	October	1.955	2.570	1.600	6.125
	November	2.377	R2.588	1.642	R6.607
	December	R3.010	2.719	1.794	R7.523
	<b>TOTAL</b>	<b>27.260</b>	<b>27.854</b>	<b>19.295</b>	<b>74.409</b>
<b>1977</b>	January	3.434	R2.529	1.722	R7.685
	February	2.978	R1.946	1.580	R6.503
	March	2.508	R2.239	1.651	R6.399
	April	2.105	R2.088	1.624	R5.817
	May	1.931	R2.289	1.607	R5.827
	June	R1.976	R2.299	1.648	R5.923
	July	R2.125	R2.236	1.669	R6.030
	August	2.117	R2.321	1.688	R6.126
	September	1.964	R2.344	1.613	R5.920
	October	2.011	R2.452	1.649	R6.113
	November	R2.171	R2.514	1.644	R6.328
	December	2.838	R2.639	1.806	R7.283
	<b>TOTAL</b>	<b>R28.156</b>	<b>R27.895</b>	<b>R19.902</b>	<b>R75.953</b>
<b>1978</b>	January	3.292	R2.564	1.700	R7.556
	February	3.148	R2.150	1.612	R6.910
	March	2.868	R2.154	1.775	R6.797
	April	R2.245	R2.129	R1.615	R5.990
	May	R2.111	R2.300	R1.738	R6.148
	June	2.048	2.304	1.705	6.057
	<b>TOTAL</b> (6 months)	<b>15.712</b>	<b>13.601</b>	<b>10.145</b>	<b>39.458</b>

\*See Explanatory Note 11 for definitions of the Residential/Commercial, Industrial, and Transportation sectors. The methodology used for sector calculations is provided in the footnotes of the next table.

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

R=Revised data.

9 **Energy Consumption by Economic Sector and Primary Source—June 1978 [Quadrillion (10<sup>15</sup>) Btu]**

Sector <sup>1</sup>	Primary Energy Source						Primary Energy Consumption	Electricity Distributed <sup>7</sup>	Net Energy Consumption	Electrical Energy Loss Distributed <sup>8</sup>	Ultimate Energy Disposition
	Coal <sup>2</sup>	Natural Gas (dry) <sup>3</sup>	Petroleum <sup>4</sup>	Hydroelectric <sup>5</sup>	Nuclear <sup>6</sup>	Geothermal					
Residential and Commercial	0.016	0.320	0.565	—	—	—	0.901	0.319	1.220	0.827	2.048
Industrial	0.293	0.612	0.549	0.003	—	—	1.457	0.236	1.693	0.611	2.304
Transportation	negl.	0.035	1.652	—	negl.	—	1.687	0.005	1.692	0.013	1.705
Electric Utilities	0.882	0.329	0.281	0.278	0.236	0.005	2.011	—	—	—	—
<b>TOTAL</b>	<b>1.191</b>	<b>1.295</b>	<b>3.048</b>	<b>0.281</b>	<b>0.236</b>	<b>0.005</b>	<b>6.057</b>	<b>0.560</b>	<b>4.605</b>	<b>1.451</b>	<b>6.057</b>

<sup>1</sup> See Explanatory Note 11 for definitions of the Residential and Commercial, Industrial, Transportation, and Electric Utilities Sectors.

<sup>2</sup> Data are from the Energy Information Administration. Includes anthracite, bituminous coal and lignite, and net coke imports.

<sup>3</sup> Aggregate data and data on utility consumption are from the Energy Information Administration. Data from the American Gas Association are used for the Residential and Commercial Sector, which includes 100 percent of the AGA "Other" category. Natural gas used in transportation, mostly for pipeline use, is estimated to be 3.6 percent of total natural gas consumption less electric utilities. This percentage is derived from 1974, 1975, and 1976 Bureau of Mines data on consumption. The Industrial Sector is then the difference between the total and the sum of the other sectors.

<sup>4</sup> Aggregate petroleum data and data on oil consumed by electric utilities are from the Energy Infor-

mation Administration. Petroleum consumed in transportation was calculated based on Department of Transportation data as follows: Motor gasoline—100 percent; naphtha jet fuel—100 percent; kerosene jet fuel—97 percent; distillate fuel oil—30.3 percent; residual fuel oil—11.2 percent; all other products—4.7 percent. The remainder is distributed to economic sectors using the following percentage shares, derived from 1974, 1975, and 1976 Bureau of Mines data on consumption: Residential and Commercial—50.7 percent; Industrial—49.3 percent.

<sup>5</sup> EIA hydroelectric power production plus net imports of electricity. These imports are assumed to be from hydroelectric power sources and are estimated at 0.011 quadrillion Btu per month in 1974, 0.005 quadrillion Btu per month for 1975, and 0.007 quadrillion Btu per month for 1976 and 0.015 quadrillion Btu per month for 1977 and 1978.

<sup>6</sup> EIA nuclear power production.

<sup>7</sup> Electricity was distributed using EIA data on kilowatt-hour sales to ultimate customers. Electrical energy consumed by railroads and for street and highway lighting was distributed to the Transportation Sector. All "Other" sales, largely for use in government buildings, were distributed to the Residential and Commercial Sector.

<sup>8</sup> In generating electricity with nuclear or fossil fuels, approximately 65 percent of the energy is lost in the form of heat. Transmission and distribution losses consume about an additional 3 percent of the energy inputs of the utility industry. In order to fully account for all energy consumed both directly and indirectly (i.e., ultimate energy disposition), the electricity losses are allocated to the final end-use sectors in proportion to their direct kilowatt-hour usage.

# Energy Consumption (Continued)

## Percent Changes in Energy Consumption for June 1978 by Sources and Economic Sectors

	June 1978 Consumption	Percent Change from June 1977*	Cumulative Percent Change from 1977 (January through June)*
Quadrillion Btu			
<b>Refined Petroleum Products</b>	3.048	+2.4	+2.7
Motor Gasoline	1.245	+4.1	+3.4
Jet Fuel	0.176	+5.7	+1.8
Distillate	0.497	+2.4	+2.7
Residual	0.489	-12.2	+0.8
Other Petroleum Products	0.641	+9.6	+3.1
<b>Natural Gas (Dry)</b>	1.295	-3.1	+5.5
<b>Coal (Anthracite, bituminous, lignite and net coke imports)</b>	1.191	+1.2	-3.5
<b>Hydroelectric and Nuclear Electric Power and Geothermal Power</b>	0.522	+20.5	+2.9
<b>TOTAL ENERGY USE</b>	<b>6.057</b>	<b>+2.3</b>	<b>+3.4</b>
<b>Economic Sector Consumption</b>			
Residential and Commercial	2.048	+3.6	+5.2
Industrial	2.304	+0.2	+1.6
Transportation	1.705	+3.4	+3.2

\*Computed on a daily average basis.

# Energy Consumption (Continued)

## Energy Consumption by the Residential and Commercial Economic Sector<sup>1</sup>

		Coal	Natural Gas (dry)	Petroleum <sup>2</sup>	Electricity Distributed	Electrical Energy Loss Distributed	Total Energy Use	Cumulative Total Energy Use
Quadrillion (10 <sup>15</sup> ) Btu								
<b>1973</b>	<b>TOTAL</b>	<b>0.295</b>	<b>7.577</b>	<b>7.077</b>	<b>3.445</b>	<b>8.145</b>	<b>26.540</b>	
<b>1974</b>	<b>TOTAL</b>	<b>0.297</b>	<b>7.427</b>	<b>6.484</b>	<b>3.424</b>	<b>8.263</b>	<b>25.895</b>	
<b>1975</b>	<b>TOTAL</b>	<b>0.253</b>	<b>7.688</b>	<b>6.135</b>	<b>3.538</b>	<b>8.562</b>	<b>26.177</b>	
<b>1976</b>	January	0.031	1.254	0.648	0.340	0.840	3.113	3.113
	February	0.019	1.090	0.581	0.315	0.687	2.692	R5.806
	March	0.018	0.856	0.571	0.286	R0.704	2.435	R8.241
	April	0.020	0.671	0.500	0.271	0.627	2.089	R10.329
	May	0.016	0.488	0.506	0.265	0.646	1.920	12.249
	June	0.015	0.333	0.488	0.285	0.749	1.869	R14.118
	July	0.011	0.281	0.486	0.333	0.862	R1.975	R16.093
	August	0.015	0.259	0.506	0.347	0.855	R1.982	R18.074
	September	0.016	0.272	0.518	0.331	0.706	1.844	R19.918
	October	0.020	0.395	0.569	0.286	0.685	1.955	R21.873
	November	0.025	0.723	0.622	0.288	R0.718	2.377	24.250
	December	0.036	1.083	0.730	0.330	R0.831	R3.010	27.260
	<b>TOTAL</b>	<b>0.243</b>	<b>7.706</b>	<b>6.726</b>	<b>3.676</b>	<b>8.909</b>	<b>27.260</b>	
<b>1977</b>	January	0.035	1.376	0.712	0.367	R0.944	3.434	3.434
	February	0.024	1.216	0.674	0.347	R0.717	2.978	6.412
	March	0.019	0.845	0.608	0.306	0.731	2.508	R8.920
	April	0.020	0.623	0.538	0.278	R0.645	2.105	R11.025
	May	0.016	0.405	0.529	0.273	0.707	1.931	12.956
	June	0.015	0.315	0.544	R0.308	R0.794	R1.976	R14.931
	July	0.014	0.283	0.503	0.366	0.959	R2.125	R17.056
	August	0.014	0.256	0.551	0.373	R0.923	2.117	R19.172
	September	0.015	0.264	0.551	0.350	0.784	1.964	R21.136
	October	0.018	0.376	0.612	0.306	R0.700	2.011	R23.148
	November	0.025	0.552	0.611	0.284	0.699	R2.171	R25.318
	December	0.030	0.952	0.685	0.326	0.845	2.838	R28.156
	<b>TOTAL</b>	<b>0.246</b>	<b>7.462</b>	<b>7.117</b>	<b>R3.882</b>	<b>R9.449</b>	<b>R28.156</b>	
<b>1978</b>	January	0.029	1.257	0.674	0.369	0.961	3.292	3.292
	February	0.029	1.283	0.647	0.361	0.828	3.148	6.440
	March	0.023	1.059	0.637	0.337	0.812	2.868	9.308
	April	0.020	0.697	R0.561	0.287	0.680	R2.245	R11.553
	May	0.018	0.493	R0.583	0.279	0.739	R2.111	R13.664
	June	0.016	0.320	0.565	0.319	0.827	2.048	15.712
	<b>TOTAL</b> (6 months)	<b>0.136</b>	<b>5.109</b>	<b>3.667</b>	<b>1.953</b>	<b>4.847</b>	<b>15.712</b>	

(See footnotes on page 10)

## Energy Consumption by the Industrial Economic Sector<sup>1</sup>

		Coal	Natural Gas (dry)	Petroleum <sup>3</sup>	Hydro-electric	Electricity Distributed	Electrical Energy Loss Distributed	Total Energy Use	Cumulative Total Energy Use
Quadrillion (10 <sup>15</sup> ) Btu									
<b>1973</b>	<b>TOTAL</b>	<b>4.362</b>	<b>10.493</b>	<b>6.403</b>	<b>R0.035</b>	<b>2.341</b>	<b>5.535</b>	<b>R29.169</b>	
<b>1974</b>	<b>TOTAL</b>	<b>4.121</b>	<b>10.137</b>	<b>6.305</b>	<b>R0.033</b>	<b>2.337</b>	<b>5.637</b>	<b>R28.570</b>	
<b>1975</b>	<b>TOTAL</b>	<b>3.812</b>	<b>8.425</b>	<b>5.966</b>	<b>R0.032</b>	<b>2.302</b>	<b>5.573</b>	<b>R26.110</b>	
<b>1976</b>	January	0.315	0.794	0.630	0.003	0.196	0.484	R2.423	R2.423
	February	0.297	0.618	0.565	0.003	0.198	0.432	2.112	R4.535
	March	0.315	0.616	0.556	0.003	0.206	R0.506	R2.201	R6.736
	April	0.313	0.587	0.487	0.003	0.205	0.474	2.068	R8.804
	May	0.320	0.658	0.492	0.003	0.209	0.509	2.191	R10.995
	June	0.306	0.670	0.475	0.003	0.214	0.562	2.229	R13.224
	July	0.306	0.734	0.473	0.003	0.213	0.551	2.280	R15.504
	August	0.302	0.709	0.492	R0.002	0.218	0.538	2.262	R17.766
	September	0.300	0.716	0.504	R0.002	0.220	0.469	R2.211	R19.977
	October	0.320	0.951	0.554	0.003	0.218	0.523	2.570	R22.547
	November	0.325	0.905	0.605	0.003	0.215	R0.536	R2.588	25.135
	December	0.355	0.900	0.710	0.003	0.214	0.538	2.719	27.854
	<b>TOTAL</b>	<b>3.775</b>	<b>8.859</b>	<b>6.540</b>	<b>0.033</b>	<b>2.525</b>	<b>6.123</b>	<b>27.854</b>	
<b>1977</b>	January	0.317	0.767	0.693	R0.003	0.210	0.540	R2.529	R2.529
	February	0.305	0.349	0.655	R0.003	0.206	0.427	R1.946	R4.475
	March	0.323	0.591	0.591	R0.003	0.216	0.515	R2.239	R6.713
	April	0.304	0.541	0.523	R0.003	0.216	0.501	R2.088	R8.801
	May	0.303	0.667	0.514	R0.003	0.223	0.578	R2.289	R11.091
	June	0.295	0.667	0.529	R0.003	0.225	R0.581	R2.299	R13.390
	July	0.287	0.657	0.489	R0.003	0.221	0.579	R2.236	R15.626
	August	0.275	0.718	0.536	R0.003	0.227	0.562	R2.321	R17.947
	September	0.274	0.795	0.536	R0.003	0.227	0.509	R2.344	R20.290
	October	0.302	0.807	0.595	R0.003	0.227	0.518	R2.452	R22.742
	November	0.298	0.851	0.594	R0.003	0.222	0.546	R2.514	R25.257
	December	0.309	0.878	0.666	R0.003	0.218	0.565	R2.639	R27.895
	<b>TOTAL</b>	<b>3.592</b>	<b>8.288</b>	<b>6.920</b>	<b>R0.036</b>	<b>2.637</b>	<b>R6.422</b>	<b>R27.895</b>	
<b>1978</b>	January	0.285	0.830	0.656	R0.003	0.219	0.571	R2.564	R2.564
	February	0.245	0.589	0.630	R0.003	0.208	0.476	R2.150	R4.714
	March	0.248	R0.569	0.619	R0.003	0.210	R0.505	R2.154	R6.868
	April	0.286	R0.570	R0.545	R0.003	0.215	R0.509	R2.129	R8.997
	May	0.319	R0.580	R0.567	R0.003	0.228	R0.603	R2.300	R11.297
	June	0.293	0.612	0.549	0.003	0.236	0.611	2.304	13.601
	<b>TOTAL</b> (6 months)	<b>1.676</b>	<b>3.749</b>	<b>3.566</b>	<b>0.019</b>	<b>1.316</b>	<b>3.276</b>	<b>13.601</b>	

(See footnotes on page 10)

# Energy Consumption (Continued)

## Energy Consumption by the Transportation Economic Sector<sup>1</sup>

		Coal	Natural Gas <sup>4</sup> (dry)	Petroleum	Electricity Distributed	Electrical Energy Loss Distributed	Total Energy Use	Cumulative Total Energy Use
Quadrillion (10 <sup>15</sup> ) Btu								
<b>1973</b>	<b>TOTAL</b>	<b>0.009</b>	<b>0.733</b>	<b>17.940</b>	<b>0.058</b>	<b>0.137</b>	<b>18.877</b>	
<b>1974</b>	<b>TOTAL</b>	<b>0.009</b>	<b>0.656</b>	<b>17.392</b>	<b>0.060</b>	<b>0.145</b>	<b>18.261</b>	
<b>1975</b>	<b>TOTAL</b>	<b>0.001</b>	<b>0.602</b>	<b>17.544</b>	<b>0.062</b>	<b>0.150</b>	<b>18.359</b>	
<b>1976</b>	January	negl.	0.076	1.556	0.006	0.015	1.653	1.653
	February	negl.	0.064	1.382	0.006	0.012	1.463	3.116
	March	negl.	0.055	1.552	0.005	0.013	1.626	4.741
	April	negl.	0.047	1.516	0.005	0.012	1.580	6.322
	May	negl.	0.043	1.493	0.005	0.012	1.553	7.875
	June	negl.	0.037	1.545	0.005	0.012	1.599	9.473
	July	negl.	0.038	1.581	0.005	0.013	1.637	11.110
	August	negl.	0.036	1.538	0.005	0.013	1.592	12.702
	September	negl.	0.037	1.504	0.005	0.011	1.558	14.260
	October	negl.	0.050	1.531	0.006	0.013	1.600	15.859
	November	negl.	0.061	1.561	0.006	0.014	1.642	17.501
	December	negl.	0.074	1.699	0.006	0.015	1.794	19.295
	<b>TOTAL</b>	<b>negl.</b>	<b>0.619</b>	<b>18.457</b>	<b>0.064</b>	<b>0.155</b>	<b>19.295</b>	
<b>1977</b>	January	negl.	0.080	1.620	0.006	0.016	1.722	1.722
	February	negl.	0.058	1.503	0.006	0.012	1.580	3.302
	March	negl.	0.054	1.580	0.005	0.012	1.651	4.953
	April	negl.	0.043	1.564	0.005	0.012	1.624	6.577
	May	negl.	0.040	1.549	0.005	0.013	1.607	8.185
	June	negl.	0.037	1.594	0.005	0.012	1.648	9.833
	July	negl.	0.035	1.616	0.005	0.013	1.669	11.502
	August	negl.	0.036	1.635	0.005	0.012	1.688	13.190
	September	negl.	0.040	1.557	0.005	0.011	1.613	14.803
	October	negl.	0.044	1.587	0.005	0.012	1.649	16.452
	November	negl.	0.052	1.571	0.006	0.014	1.644	18.095
	December	negl.	0.068	1.717	0.006	0.015	1.806	R19.902
	<b>TOTAL</b>	<b>negl.</b>	<b>0.588</b>	<b>19.094</b>	<b>0.064</b>	<b>0.155</b>	<b>R19.902</b>	
<b>1978</b>	January	negl.	0.078	1.600	0.006	0.016	1.700	1.700
	February	negl.	0.070	1.524	0.006	0.013	1.612	3.312
	March	negl.	0.061	1.696	0.005	0.013	1.775	5.087
	April	negl.	R0.047	R1.551	0.005	0.012	R1.615	6.703
	May	negl.	R0.040	R1.680	0.005	0.013	R1.738	R8.440
	June	negl.	0.035	1.652	0.005	0.013	1.705	10.145
	<b>TOTAL</b> (6 months)	<b>negl.</b>	<b>0.331</b>	<b>9.702</b>	<b>0.032</b>	<b>0.080</b>	<b>10.145</b>	

<sup>1</sup> See Explanatory Note 11 for definitions of the Residential and Commercial, Industrial, and Transportation Sectors. The methodology used for sector calculations is provided in the footnotes of a previous table. Printed totals may differ slightly from the sum of their row/column components due to independent rounding.

<sup>2</sup> The percentage share used in calculating Residential and Commercial consumption of petroleum was 52.5 percent for 1973 and 50.7 percent for 1974, 1975, 1976, 1977, and 1978.

<sup>3</sup> The percentage share used in calculating Industrial consumption of petroleum was 47.5 percent for 1973 and 49.3 percent for 1974, 1975, 1976, 1977, and 1978.

<sup>4</sup> The percentage share used in calculating Transportation consumption of natural gas was 3.9 percent for 1973 and 3.6 percent for 1974, 1975, 1976, 1977, and 1978. This percentage share is applied to total natural gas minus electric utility consumption.  
R=Revised data.

# Cooling Degree-Days\*

Petroleum Administration For Defense (PAD) Districts	1978	August 28, 1978-October 1, 1978				Cumulative January 1-October 1, 1978				
		1977**	(-10.8)	191.2	(18.2)	1978	1977**	(-7.8)	1,192.8	(4.7)
		124.6	(-50.9)	65.1	(-6.1)	620.6	780.6	(-20.5)	575.0	(7.9)
PAD District I	226.0	253.3	(-10.8)	191.2	(18.2)	1,249.3	1,355.6	(-7.8)	1,192.8	(4.7)
New England	61.1	124.6	(-50.9)	65.1	(-6.1)	620.6	780.6	(-20.5)	575.0	(7.9)
Conn., Maine, Mass., N.H., R.I., Vt.										
Middle Atlantic	143.7	177.2	(-18.9)	127.7	(12.5)	933.9	997.0	(-6.3)	899.9	(3.8)
Del., Md., N.J., N.Y., Pa.										
Lower Atlantic	422.1	424.2	(-0.5)	342.1	(23.4)	1,999.7	2,147.5	(-6.9)	1,904.3	(5.0)
Fla., Ga., N.C., S.C., Va., W. Va.										
PAD District II	234.6	171.8	(36.6)	128.2	(83.0)	1,097.7	1,179.7	(-6.9)	952.3	(15.3)
Ill., Ind., Iowa, Kans., Ky., Mich., Minn., Mo., Nebr., N. Dak., Ohio, Okla., S. Dak., Tenn., Wisc.										
PAD District III	467.9	537.8	(-13.0)	418.5	(11.8)	2,458.2	2,547.9	(-3.5)	2,299.7	(6.9)
Ala., Ark., La., Miss., N. Mex., Tex.										
PAD District IV	105.0	93.1	(12.8)	81.6	(28.6)	723.6	819.3	(-11.7)	672.5	(7.6)
Colo., Idaho, Mont., Utah, Wyo.										
PAD District V	241.8	181.5	(33.2)	175.9	(37.5)	938.0	849.0	(10.5)	767.3	(22.2)
Ariz., Calif., Nev., Oreg., Wash.										
<b>U.S. AVERAGE</b>	<b>256.6</b>	<b>246.5</b>	<b>(4.1)</b>	<b>192.8</b>	<b>(33.1)</b>	<b>1,286.6</b>	<b>1,355.4</b>	<b>(-5.1)</b>	<b>1,173.3</b>	<b>(9.7)</b>

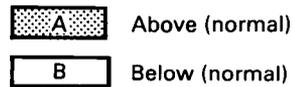
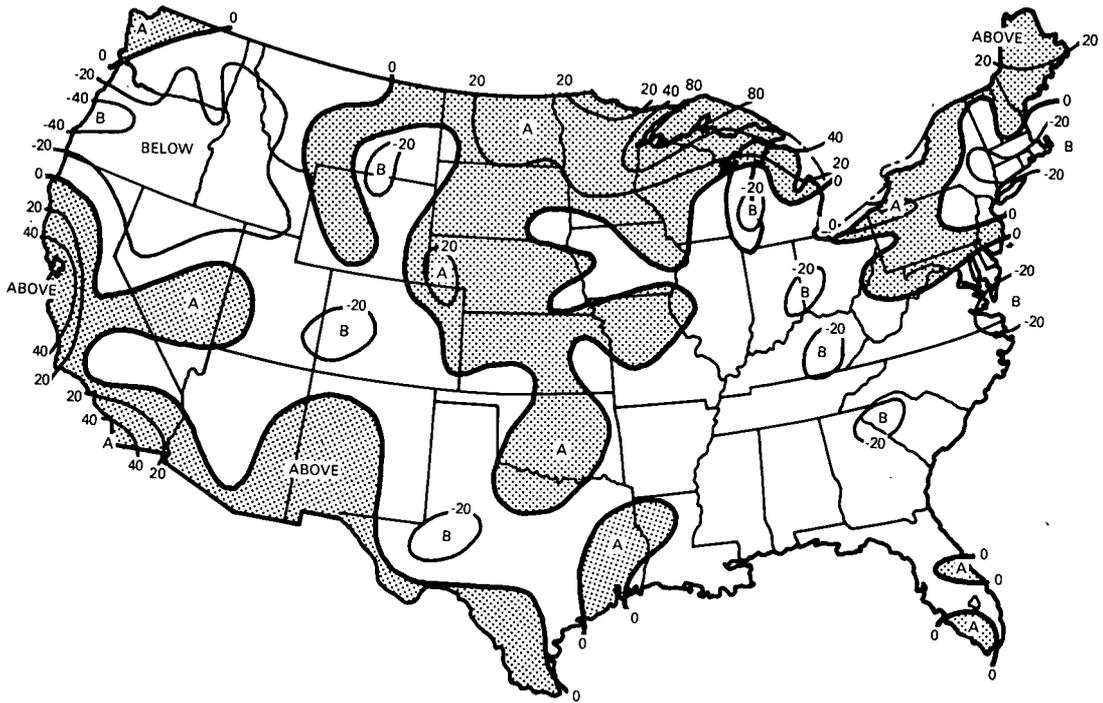
\*See Explanatory Note 12 for explanation of degree-days.

\*\*Percentage change in parentheses.

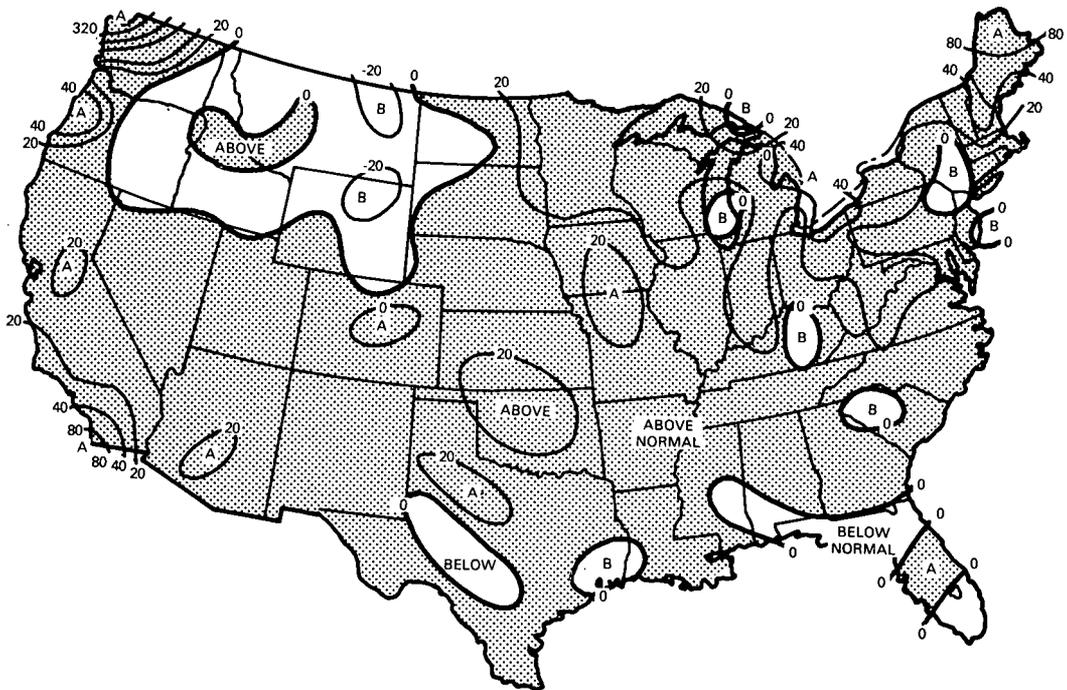
# Cooling Degree-Days (Continued)

Cooling Degree-Days Accumulated from January 1, 1978, through October 1, 1978

Percent Departure from 1977



Percent Departure from Normal (1941-70)



Note: Above normal cooling degree-days correspond to above normal temperatures.  
 Source: Department of Commerce—NOAA.

# Part 3 Crude Oil and Refined Petroleum Products

## Crude Oil and Refined Petroleum Products

Domestic crude oil production averaged 8.9 million barrels per day in August\*, 8.3 percent higher than in August 1977. The average for the first 8 months of 1978 was 8.6 million barrels per day, 7.6 percent above the January through August 1977 average.

Total petroleum imports averaged 8.0 million barrels per day in August 1978\*\*, 6.6 percent less than the August 1977 rate. Imports averaged 7.8 million barrels per day over the first 8 months of 1978, 12.9 percent less than over the first 8 months of 1977.

Total domestic demand for petroleum products averaged 18.9 million barrels per day in August, 4.9 percent above the rate in August 1977. The major components of domestic demand in August were: motor gasoline (41.7 percent), distillate fuel oil (15.0 percent), and residual fuel oil (15.7 percent). Total domestic demand averaged 18.9 million barrels per day over the first 8 months of 1978, 2.9 percent higher than over the first 8 months of 1977.

Preliminary statistics indicate that motor gasoline demand averaged 7.9 million barrels per day in August 1978, 6.2 percent above the rate of August 1977. The January through August average was 7.4 million barrels per day, 3.6 percent above the average for the first 8 months of 1977. Motor gasoline stocks measured 210.4 million barrels at the end of August, 18.1 percent below a year ago and 8.8 percent below the level 2 years ago.

Distillate fuel oil demand averaged 2.8 million barrels per day in August, 7.8 percent higher than a year ago. The average for the January through August period of 1978 was 3.5 million barrels per day, 3.2 percent above the January through August 1977 average.

Residual fuel oil demand averaged 3.0 million barrels per day in August, 2.8 percent less than a year ago. The average over the January through August period of 1978 was 3.1 million barrels per day, 0.1 percent above the January through August 1977 average.

\*August 1978 estimates are based on preliminary data from the American Petroleum Institute and will be revised to conform with data from the EIA Petroleum Reporting System as available.

\*\*Excludes crude petroleum imported for the Strategic Petroleum Reserve.

# Crude Oil

		Crude Input to Refineries	Domestic Production <sup>1</sup>	Crude Oil Imports <sup>1,2</sup>	Strategic Petroleum Reserve (SPR) Imports	Exports	Crude Oil Stocks <sup>1,3</sup>	Strategic Petroleum Reserve (SPR) Stocks
		Thousands of barrels per day					Thousands of barrels	
<b>1972</b>	<b>AVERAGE</b>	<b>11,696</b>	<b>9,441</b>	<b>2,216</b>		<b>1</b>	<b>*246,395</b>	
<b>1973</b>	<b>AVERAGE</b>	<b>12,431</b>	<b>9,208</b>	<b>3,244</b>		<b>2</b>	<b>*242,478</b>	
<b>1974</b>	<b>AVERAGE</b>	<b>12,133</b>	<b>8,774</b>	<b>3,477</b>		<b>3</b>	<b>*265,020</b>	
<b>1975</b>	<b>AVERAGE</b>	<b>12,442</b>	<b>8,375</b>	<b>4,105</b>		<b>6</b>	<b>*271,354</b>	
<b>1976</b>	January	12,560	8,232	4,594		0	289,296	
	February	12,834	8,231	4,208		0	277,414	
	March	12,877	8,232	4,738		1	283,112	
	April	12,727	8,077	4,790		0	286,628	
	May	12,920	8,125	4,669		0	283,982	
	June	13,799	8,094	5,628		0	281,715	
	July	13,901	8,127	5,792		0	282,599	
	August	13,888	8,111	5,556		12	277,272	
	September	13,716	8,150	5,875		0	284,357	
	October	13,319	8,063	5,689		18	297,683	
	November	14,101	8,080	5,946		30	298,836	
	December	14,333	8,061	5,925		34	285,471	
	<b>AVERAGE</b>	<b>13,416</b>	<b>8,132</b>	<b>5,287</b>		<b>8</b>		
<b>1977</b>	January	14,140	7,790	6,288		13	294,037	
	February	14,740	8,067	6,652		59	291,387	
	March	14,270	8,022	6,633		32	299,464	
	April	14,185	8,079	6,785		17	318,588	
	May	14,605	8,009	6,821		89	328,559	
	June	14,867	8,039	6,997		10	333,635	
	July	14,884	8,040	7,021		53	335,193	
	August	14,645	8,244	6,416		37	338,300	
	September	14,930	8,416	6,429		91	334,180	
	October	14,658	8,508	6,270	93	38	340,517	2,646
	November	14,636	8,513	6,230	73	45	345,098	5,084
	December	14,749	8,423	6,049	79	69	339,813	7,826
	<b>AVERAGE</b>	<b>14,608</b>	<b>8,179</b>	<b>6,548</b>	<b>21</b>	<b>50</b>		
<b>1978</b>	January	14,139	8,347	5,974	114	98	340,082	11,106
	February	13,959	8,373	5,551	109	8	335,794	14,276
	March	14,141	8,807	5,981	132	60	345,333	18,437
	April	R13,872	R8,708	5,331	108	92	R343,201	21,826
	May	R14,982	R8,801	5,452	133	124	R329,020	25,629
	June	14,776	8,608	R6,224	R146	NA	324,944	30,140
	July	R14,937	R8,585	R5,849	154	NA	R323,749	35,248
	August	15,397	8,930	6,380	184	NA	327,067	40,968
	<b>AVERAGE</b>	<b>14,534</b>	<b>8,648</b>	<b>5,847</b>	<b>135</b>	<b>78</b>		
	(Year to date)							

<sup>1</sup>See Definitions.

<sup>2</sup>Excludes SPR imports.

<sup>3</sup>Excludes SPR stocks.

<sup>4</sup>Total as of December 31.

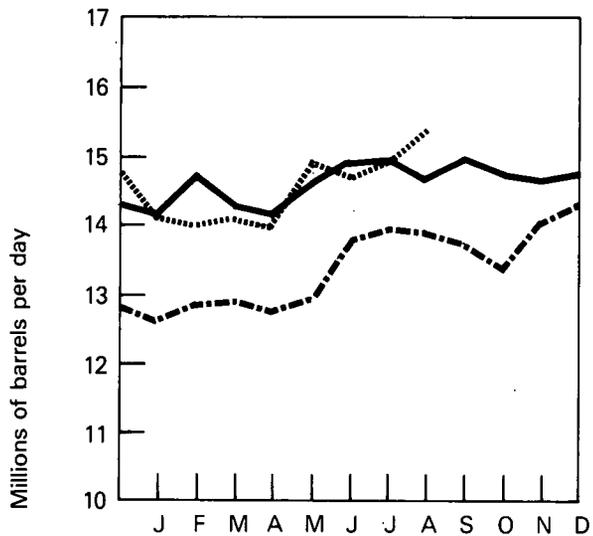
R=Revised data.

NA = Not available.

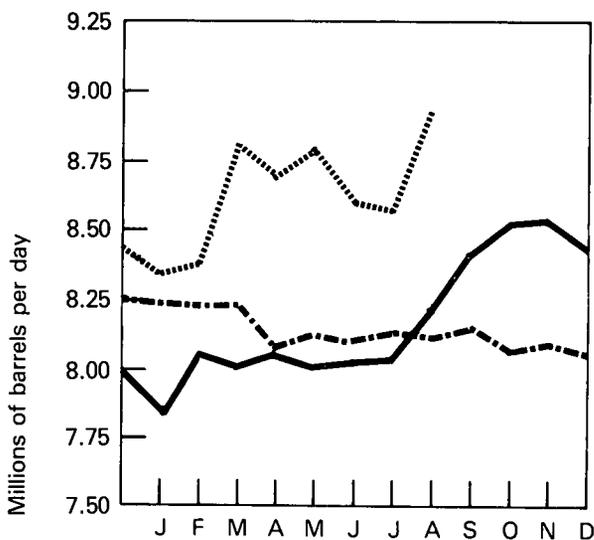
Sources: 1972 through 1976: Bureau of Mines (BOM) *Mineral Industry Surveys*, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly;" May 1977 through May 1978: Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" June 1978 through July 1978: EIA "Monthly Petroleum Statistics Report;" August 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin," except for August SPR Imports which is from DOE.

# Crude Oil

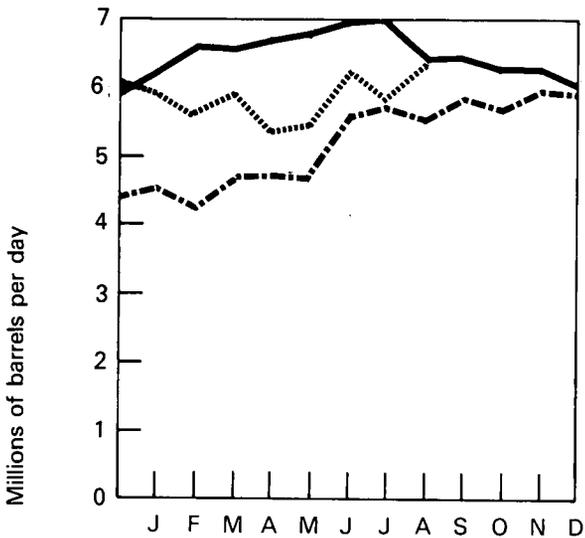
## Crude Input to Refineries



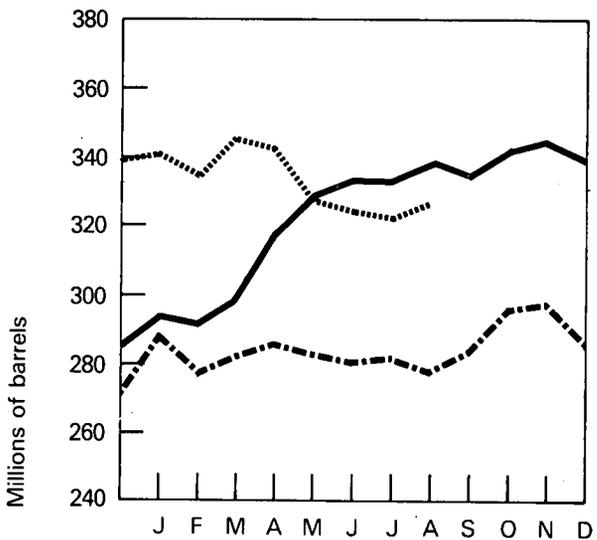
## Domestic Production



## Imports



## Stocks



- - - 1976 BOM  
 — 1977 BOM, EIA  
 ..... 1978 EIA, API

## Total Refined Petroleum Products

		Domestic Demand	Imports*	Exports
Thousands of barrels per day				
<b>1972</b>	<b>AVERAGE</b>	<b>16,367</b>	<b>2,525</b>	<b>222</b>
<b>1973</b>	<b>AVERAGE</b>	<b>17,308</b>	<b>3,012</b>	<b>229</b>
<b>1974</b>	<b>AVERAGE</b>	<b>16,653</b>	<b>2,635</b>	<b>218</b>
<b>1975</b>	<b>AVERAGE</b>	<b>16,322</b>	<b>1,951</b>	<b>204</b>
<b>1976</b>	January	18,647	2,119	156
	February	17,509	2,504	241
	March	17,302	1,949	183
	April	16,672	1,806	222
	May	15,977	1,654	179
	June	16,825	1,847	213
	July	16,607	2,092	242
	August	16,642	1,827	208
	September	16,837	2,050	196
	October	17,090	1,847	180
	November	18,847	2,115	318
	December	20,560	2,522	246
	<b>AVERAGE</b>	<b>17,461</b>	<b>2,026</b>	<b>215</b>
<b>1977</b>	January	20,481	2,594	179
	February	20,427	3,278	175
	March	18,056	2,610	175
	April	17,570	1,886	207
	May	16,960	1,753	199
	June	18,048	1,872	215
	July	17,549	2,021	201
	August	18,009	2,175	193
	September	17,733	2,136	203
	October	17,831	1,862	170
	November	18,440	1,814	190
	December	20,046	2,183	206
	<b>AVERAGE</b>	<b>18,418</b>	<b>2,176</b>	<b>193</b>
<b>1978</b>	January	19,691	2,065	158
	February	20,874	2,337	200
	March	19,627	2,323	209
	April	R17,714	R2,100	245
	May	R18,133	R1,762	189
	June	18,487	1,605	NA
	July	R17,949	R1,861	NA
	August	18,894	1,648	NA
	<b>AVERAGE</b> (Year to date)	<b>18,904</b>	<b>1,959</b>	<b>200</b>

## Total Petroleum Imports (Crude Oil and Refined Products)

Total Imports (Excluding SPR)	SPR Imports	Total Imports (Including SPR)
Thousands of barrels per day		
<b>4,741</b>		
<b>6,256</b>		
<b>6,112</b>		
<b>6,056</b>		
6,714		
6,712		
6,687		
6,595		
6,323		
7,474		
7,884		
7,382		
7,924		
7,536		
8,060		
8,447		
<b>7,313</b>		
8,882		
9,930		
9,243		
8,671		
8,574		
8,869		
9,042		
8,591		
8,565		
8,132	93	8,225
8,044	73	8,117
8,232	79	8,311
<b>R8,724</b>	<b>21</b>	<b>8,744</b>
8,040	114	8,154
7,887	109	7,996
8,304	132	8,436
R7,431	108	R7,539
R7,215	133	R7,348
R7,829	R146	7,975
R7,710	154	7,864
8,028	184	8,212
<b>7,806</b>	<b>135</b>	<b>7,941</b>

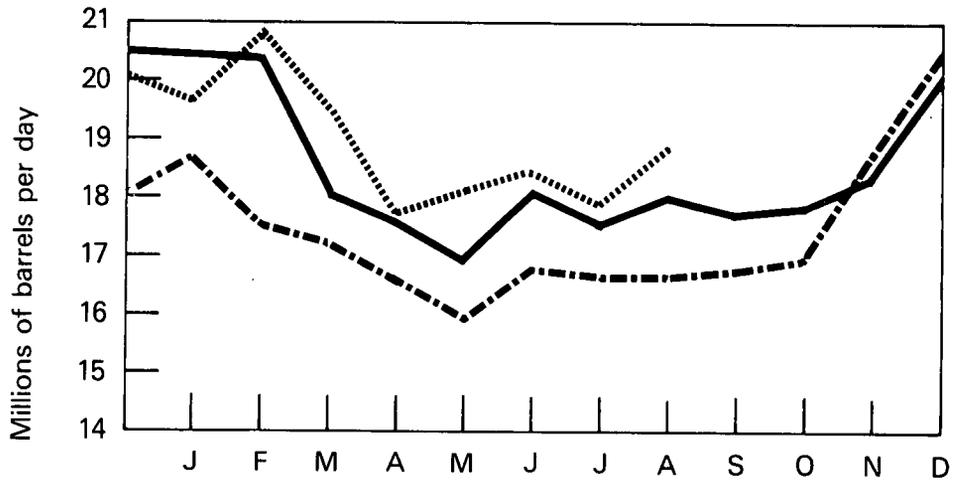
\*See Definitions.

R=Revised data.

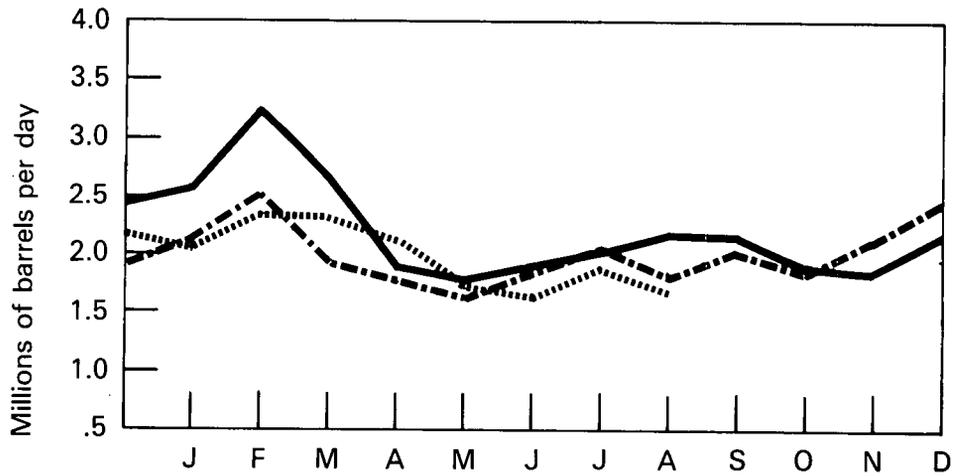
NA=Not available.

Sources: 1972 through 1976: Bureau of Mines (BOM) *Mineral Industry Surveys*, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly;" May 1977 through May 1978: Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" June 1978 through July 1978: EIA "Monthly Petroleum Statistics Report;" August 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin," except for August SPR Imports which is from DOE.

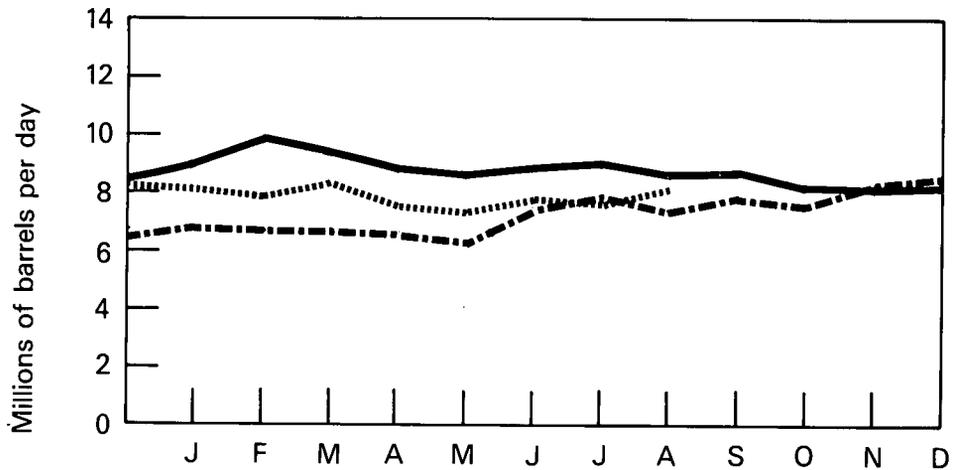
### Total Refined Product Domestic Demand



### Refined Product Imports



### Total Petroleum Imports



- - - 1976 BOM  
 — 1977 BOM, EIA  
 ..... 1978 EIA, API

## Direct and Indirect\* U.S. Petroleum Imports from OPEC Countries

	Algeria	Indonesia	Iran	Libya	Nigeria	Saudi Arabia	United Arab Emirates	Venezuela	Other OPEC**	Total OPEC	Arab Members of OPEC
Thousands of barrels per day											
<b>1973</b>											
Direct	134.2	212.7	222.7	164.3	458.9	487.3	70.6	1,124.7	106.5	2,981.9	914.4
Indirect	17.0	25.0	211.0	144.0	149.0	253.0	13.0	509.0	88.0	1,409.0	463.0
<b>TOTAL</b>	<b>151.2</b>	<b>237.7</b>	<b>433.7</b>	<b>308.3</b>	<b>607.9</b>	<b>740.3</b>	<b>83.6</b>	<b>1,633.7</b>	<b>194.5</b>	<b>4,390.9</b>	<b>1,377.4</b>
<b>1974</b>											
Direct	190.2	300.1	468.8	4.4	697.6	460.6	70.5	979.3	88.3	3,259.8	748.5
Indirect	16.9	40.8	262.2	35.9	214.6	214.6	17.3	478.5	128.7	1,409.5	357.9
<b>TOTAL</b>	<b>207.1</b>	<b>310.9</b>	<b>731.0</b>	<b>40.3</b>	<b>912.2</b>	<b>675.2</b>	<b>87.8</b>	<b>1,457.8</b>	<b>217.0</b>	<b>4,669.3</b>	<b>1,106.4</b>
<b>1975</b>											
Direct	281.5	388.4	280.4	232.0	761.5	715.0	116.7	697.6	116.1	3,589.2	1,381.3
Indirect	6.7	49.3	244.4	97.3	76.3	176.6	37.5	332.5	143.2	1,163.8	408.8
<b>TOTAL</b>	<b>288.2</b>	<b>437.7</b>	<b>524.8</b>	<b>329.3</b>	<b>837.8</b>	<b>891.6</b>	<b>154.2</b>	<b>1,030.1</b>	<b>259.3</b>	<b>4,753.0</b>	<b>1,790.1</b>
<b>1976</b>											
Direct	428.3	537.4	298.5	453.3	1,025.2	1,229.8	255.2	699.2	134.0	5,060.9	2,421.0
Indirect	10.0	32.0	248.0	76.0	94.0	136.0	68.0	273.0	82.0	1,019.0	352.0
<b>TOTAL</b>	<b>438.3</b>	<b>569.4</b>	<b>546.5</b>	<b>529.3</b>	<b>1,119.2</b>	<b>1,365.8</b>	<b>323.2</b>	<b>972.2</b>	<b>216.0</b>	<b>6,079.9</b>	<b>2,773.0</b>
<b>1977</b>											
Direct											
January	493.0	619.2	396.8	627.0	1,285.8	1,328.0	319.5	841.8	324.2	6,236.0	3,000.0
February	666.1	570.3	412.4	638.0	1,265.1	1,441.8	316.7	920.6	241.0	6,472.0	3,141.1
March	459.8	567.0	735.0	701.2	1,300.0	1,371.6	369.5	664.3	184.3	6,352.7	3,022.1
April	660.7	523.9	517.2	782.9	1,242.4	1,437.4	323.5	663.3	250.5	6,401.8	3,363.2
May	392.8	512.7	539.3	784.1	1,072.3	1,724.1	237.1	534.4	435.9	6,232.7	3,451.3
June	436.6	671.6	553.0	827.1	1,190.8	1,432.7	438.6	668.7	343.5	6,562.6	3,374.1
July	573.9	519.0	857.3	763.4	1,194.7	1,369.8	286.1	652.8	350.8	6,567.8	3,232.1
August	632.2	552.8	500.1	640.0	960.5	1,449.4	308.6	744.4	276.9	6,064.9	3,169.8
September	550.8	391.0	448.9	679.2	1,084.8	1,487.4	348.4	744.8	201.0	5,936.3	3,215.1
October	626.2	461.0	413.0	690.5	1,104.2	1,303.3	246.9	586.7	272.0	5,703.9	2,998.1
November	590.6	514.6	422.7	840.1	943.0	1,119.2	420.1	515.1	285.0	5,650.4	3,162.5
December	553.0	492.7	549.0	604.4	987.2	1,064.8	390.5	724.2	289.1	5,654.9	2,835.4
<b>Total Direct</b>	<b>552.0</b>	<b>532.8</b>	<b>530.2</b>	<b>714.7</b>	<b>1,135.1</b>	<b>1,377.0</b>	<b>333.4</b>	<b>687.0</b>	<b>288.3</b>	<b>6,150.5</b>	<b>3,162.7</b>
Indirect	11.1	52.2	297.9	133.8	105.7	208.1	98.5	221.0	100.5	1,228.8	530.8
<b>TOTAL</b>	<b>563.1</b>	<b>585.0</b>	<b>828.1</b>	<b>848.5</b>	<b>1,240.8</b>	<b>1,585.1</b>	<b>431.9</b>	<b>908.0</b>	<b>388.8</b>	<b>7,379.3</b>	<b>3,693.5</b>
<b>1978</b>											
Direct											
January	682.3	462.7	681.5	559.9	822.9	1,198.2	348.7	628.4	227.9	5,612.5	2,925.1
February	635.9	393.5	526.2	575.8	758.4	982.4	485.8	750.5	242.3	5,350.8	2,792.3
March	709.5	579.4	547.3	589.9	944.8	1,125.6	296.2	893.6	240.6	5,926.9	2,884.0
April	597.6	R504.7	408.6	601.8	584.3	R986.6	435.0	R641.9	220.2	R4,980.7	R2,732.1
May	667.1	R508.5	730.4	498.7	790.2	786.3	404.5	R527.6	R84.5	R4,997.8	R2,396.8
June	753.5	632.7	508.5	630.3	851.7	1,111.3	342.7	481.0	235.3	5,547.0	3,001.6
July	642.7	574.6	532.5	591.1	928.0	995.6	289.5	508.4	285.5	5,347.9	2,700.6
<b>Total Direct</b>	<b>670.2</b>	<b>523.7</b>	<b>563.6</b>	<b>577.9</b>	<b>813.1</b>	<b>1,027.0</b>	<b>370.0</b>	<b>632.1</b>	<b>219.1</b>	<b>5,396.7</b>	<b>2,775.0</b>
Indirect	9.4	59.0	350.7	131.8	109.9	186.9	94.2	220.4	72.8	1,235.1	469.6
<b>TOTAL</b>	<b>679.6</b>	<b>582.7</b>	<b>914.3</b>	<b>709.7</b>	<b>923.0</b>	<b>1,213.9</b>	<b>464.2</b>	<b>852.5</b>	<b>291.9</b>	<b>6,631.8</b>	<b>3,244.6</b>
(7 months)											

\*Indirect imports refer to U.S. imports of petroleum products, primarily from Caribbean and European areas, that have been refined from crude oil produced in other areas. U.S. imports of these products have been prorated to each OPEC country of origin based on the share of total crude oil supply in the Caribbean and European areas which was imported from each OPEC country.

\*\*Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.

Sources: Direct Imports—Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly" and "PAD District Supply/Demand, Monthly" through April 1977; EIA *Energy Data Reports*, "PAD Districts Supply/Demand, Monthly" for May 1977 through May 1978; EIA "Monthly Petroleum Statistics Report" for June 1978 and July 1978; Indirect Imports—EIA estimates.

## U.S. Petroleum Imports from Non-OPEC Sources

	Bahamas	Canada	Mexico	Netherlands Antilles	Puerto Rico	Trinidad and Tobago	Virgin Islands	Other	Total
Thousands of barrels per day									
<b>1973</b>	<b>170.8</b>	<b>1,312.9</b>	<b>15.2</b>	<b>573.6</b>	<b>99.3</b>	<b>250.6</b>	<b>329.2</b>	<b>523.5</b>	<b>3,274.2</b>
<b>1974</b>	<b>159.3</b>	<b>1,067.6</b>	<b>8.4</b>	<b>509.6</b>	<b>90.4</b>	<b>241.2</b>	<b>391.7</b>	<b>384.2</b>	<b>2,852.4</b>
<b>1975</b>	<b>152.0</b>	<b>845.2</b>	<b>71.4</b>	<b>323.6</b>	<b>89.7</b>	<b>240.9</b>	<b>406.5</b>	<b>306.1</b>	<b>2,435.4</b>
<b>1976</b>									
January	134.1	681.7	58.7	291.7	71.0	343.2	468.4	321.5	2,370.3
February	127.6	644.9	70.0	262.4	122.2	326.3	462.3	251.7	2,267.4
March	90.4	590.2	108.0	328.7	114.0	315.6	424.5	367.5	2,338.9
April	131.9	578.4	112.0	274.9	68.5	291.9	341.2	404.5	2,203.3
May	95.2	614.9	89.3	214.1	70.6	257.5	388.5	316.4	2,046.5
June	104.2	653.3	79.5	190.4	54.3	319.3	427.5	373.5	2,202.0
July	112.8	581.7	79.4	259.1	77.9	279.2	386.5	434.0	2,210.6
August	98.5	580.9	88.1	268.7	81.5	163.6	437.2	428.5	2,147.0
September	143.1	564.8	84.8	273.3	104.1	182.6	408.5	453.1	2,214.3
October	78.3	562.0	79.2	239.0	92.2	215.2	460.5	422.8	2,149.2
November	140.4	561.8	132.1	267.6	104.1	254.3	454.4	333.2	2,247.9
December	141.5	578.3	65.5	400.3	98.5	324.2	408.4	405.0	2,421.3
<b>TOTAL</b>	<b>116.5</b>	<b>599.3</b>	<b>87.1</b>	<b>274.6</b>	<b>88.1</b>	<b>272.6</b>	<b>422.3</b>	<b>373.5</b>	<b>2,234.0</b>
<b>1977</b>									
January	170.0	505.9	97.9	304.1	82.5	316.2	619.6	549.8	2,646.0
February	289.5	605.1	168.1	406.6	86.3	406.3	548.8	947.8	3,458.5
March	200.4	561.7	171.5	257.3	97.4	286.5	505.5	810.4	2,890.7
April	130.7	506.1	155.2	110.1	85.3	210.5	409.0	662.4	2,269.3
May	138.5	437.8	173.6	153.7	105.8	308.1	376.2	647.6	2,341.3
June	137.7	493.0	180.7	196.2	89.4	271.1	322.0	616.0	2,306.1
July	169.8	482.9	158.7	239.0	129.7	275.8	477.7	540.1	2,473.7
August	168.8	501.5	213.6	224.5	88.4	281.2	461.6	586.9	2,526.5
September	140.2	528.5	167.6	201.1	156.7	250.9	433.9	750.1	2,629.0
October	122.3	487.0	246.6	197.4	114.1	288.4	451.9	612.9	2,520.6
November	184.4	504.6	230.7	93.3	98.7	237.2	462.8	654.7	2,466.4
December	159.8	580.1	186.5	191.9	97.8	305.5	555.6	579.2	2,656.4
<b>TOTAL</b>	<b>166.9</b>	<b>515.5</b>	<b>179.3</b>	<b>213.7</b>	<b>105.3</b>	<b>286.0</b>	<b>466.2</b>	<b>660.7</b>	<b>2,593.6</b>
<b>1978</b>									
January	167.5	479.7	236.4	215.2	98.0	295.0	466.0	583.3	2,541.1
February	217.6	507.5	221.9	225.2	99.6	295.8	490.6	587.2	2,645.4
March	211.5	436.9	230.9	238.1	63.6	274.2	492.8	560.8	2,508.8
April	140.9	R392.4	231.4	R258.3	95.0	302.1	371.9	766.7	R2,558.7
May	R194.3	R396.0	257.6	230.6	73.6	R189.0	304.0	R704.6	R2,349.7
June	143.2	466.0	287.1	210.6	117.5	188.8	324.5	690.0	2,427.7
July	169.8	441.2	319.5	201.6	93.8	281.4	402.2	606.2	2,515.7
<b>TOTAL</b> (7 months)	<b>177.6</b>	<b>445.0</b>	<b>255.4</b>	<b>225.6</b>	<b>91.3</b>	<b>260.6</b>	<b>406.8</b>	<b>642.7</b>	<b>2,505.0</b>

R=Revised data.

Source: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly" and "PAD Districts Supply/Demand, Monthly," through April 1977; EIA *Energy Data Reports*, "PAD Districts Supply/Demand Monthly" for May 1977 through May 1978; and EIA "Monthly Petroleum Statistics Report" for June 1978 and July 1978.

# Motor Gasoline

		Domestic Demand							
		Total	Unleaded	Unleaded Percent of Total	Production*	Imports	Exports	Stocks*	
		Thousands of barrels per day							Thousands of barrels
<b>1972</b>	<b>AVERAGE</b>	<b>6,376</b>	<b>NA</b>	<b>NA</b>	<b>6,281</b>	<b>68</b>	<b>1</b>	<b>**212,770</b>	
<b>1973</b>	<b>AVERAGE</b>	<b>6,674</b>	<b>NA</b>	<b>NA</b>	<b>6,527</b>	<b>134</b>	<b>4</b>	<b>**209,395</b>	
<b>1974</b>	<b>AVERAGE</b>	<b>6,537</b>	<b>NA</b>	<b>NA</b>	<b>6,358</b>	<b>204</b>	<b>2</b>	<b>**218,346</b>	
<b>1975</b>	<b>AVERAGE</b>	<b>6,675</b>	<b>NA</b>	<b>NA</b>	<b>6,518</b>	<b>184</b>	<b>2</b>	<b>**234,925</b>	
<b>1976</b>	January	6,398	NA	NA	6,483	92	0	240,464	
	February	6,263	1,117	17.8	6,473	84	6	248,854	
	March	6,890	1,456	21.1	6,455	123	6	239,049	
	April	7,159	1,312	18.3	6,562	99	8	223,965	
	May	6,853	1,393	20.3	6,775	112	1	225,037	
	June	7,482	1,549	20.7	7,303	188	0	225,365	
	July	7,315	1,594	21.8	7,174	190	1	226,922	
	August	7,168	1,553	21.7	7,149	141	7	230,578	
	September	7,079	1,628	23.0	6,878	171	0	229,751	
	October	6,929	1,552	22.4	6,678	138	0	226,300	
	November	7,038	1,604	22.8	6,938	146	1	227,742	
	December	7,138	1,797	25.2	7,176	84	7	231,387	
	<b>AVERAGE</b>	<b>6,978</b>	<b>1,508</b>	<b>21.6</b>	<b>6,838</b>	<b>131</b>	<b>3</b>		
<b>1977</b>	January	6,466	1,549	24.0	6,934	222	8	252,608	
	February	6,897	1,773	25.7	6,817	184	2	255,519	
	March	6,899	1,657	24.0	6,864	245	0	262,118	
	April	7,348	1,863	25.4	6,968	269	1	258,831	
	May	7,034	1,803	25.6	6,950	202	2	262,498	
	June	7,595	2,142	28.2	7,145	246	1	256,389	
	July	7,441	2,146	28.8	7,248	248	1	258,152	
	August	7,419	2,096	28.3	7,191	187	1	256,904	
	September	7,317	2,080	28.4	7,062	220	1	255,859	
	October	7,132	2,135	29.9	6,932	179	1	255,194	
	November	7,191	2,060	28.6	7,123	179	2	258,537	
	December	7,373	2,400	32.6	7,146	196	1	257,578	
	<b>AVERAGE</b>	<b>7,176</b>	<b>1,976</b>	<b>27.5</b>	<b>7,033</b>	<b>215</b>	<b>2</b>		
<b>1978</b>	January	6,670	2,097	31.4	6,932	211	1	272,287	
	February	6,884	2,162	31.4	6,630	210	1	271,077	
	March	7,256	2,425	33.4	6,750	142	1	259,801	
	April	R7,206	2,391	R33.2	6,668	R180	1	R249,079	
	May	R7,732	2,343	30.3	7,059	174	2	R233,612	
	June	7,910	2,697	34.1	7,214	238	NA	219,403	
	July	R7,577	2,629	34.7	R7,268	210	NA	R216,337	
	August	7,881	NA	NA	7,506	182	NA	210,355	
	<b>AVERAGE</b> (Year to date)	<b>7,394</b>	<b>2,394</b>	<b>32.7</b> (7 months)	<b>7,008</b>	<b>193</b>	<b>1</b>		

\*See Definitions.

\*\*Total as of December 31.

Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

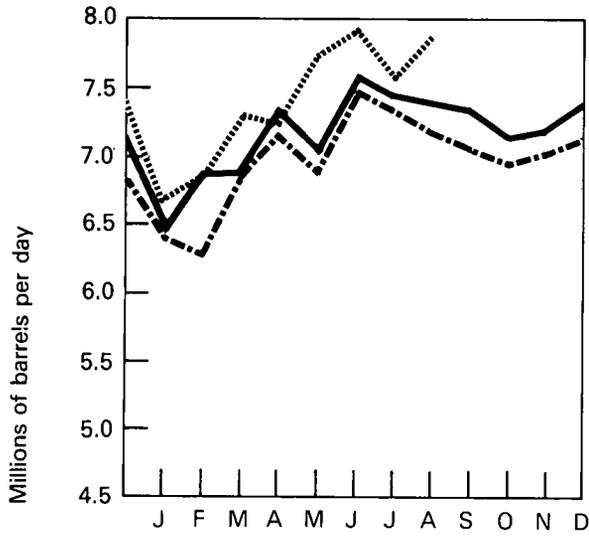
R=Revised data.

NA=Not available.

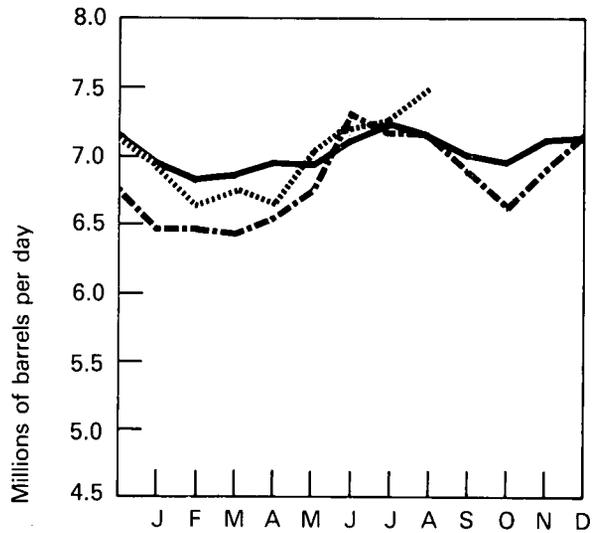
Sources: Data other than unleaded—1972 through 1976: Bureau of Mines (BOM) *Mineral Industry Surveys*, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines *Mineral Industry Surveys*, "Petroleum, Statement, Monthly;" May 1977 through May 1978: Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" June 1978 through July 1978: "Monthly Petroleum Statistics Report;" August 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin." Unleaded data—EIA Petroleum Reporting System.

# Motor Gasoline

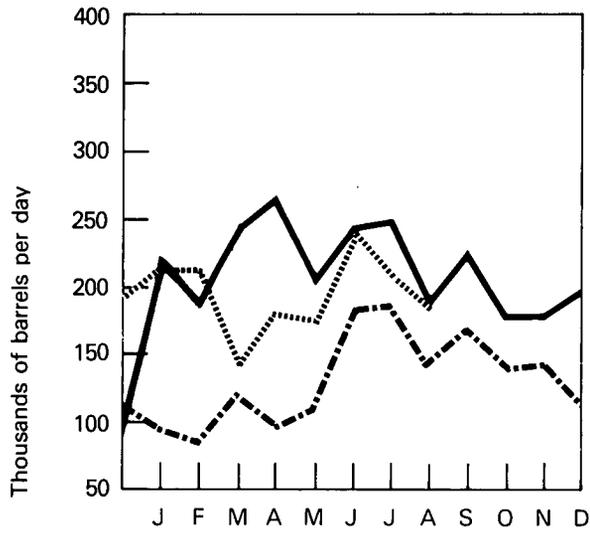
## Domestic Demand



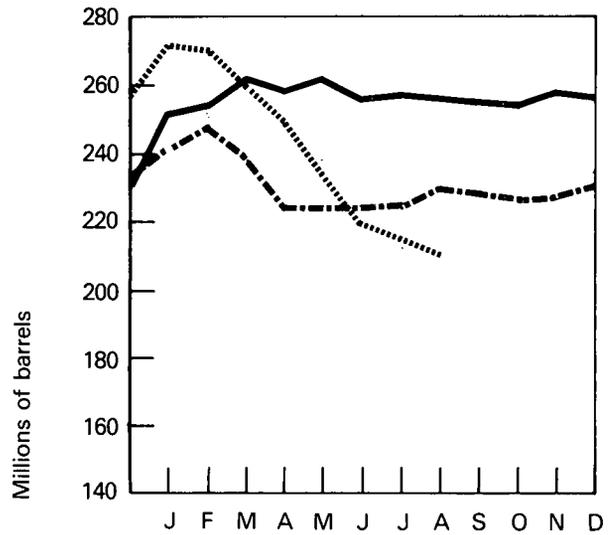
## Production



## Imports



## Stocks



- - - 1976 BOM  
 — 1977 BOM, EIA  
 ..... 1978 EIA, API

# Jet Fuel

		Domestic Demand	Production	Imports	Exports	Stocks	
		Thousands of barrels per day					Thousands of barrels
1972	<b>AVERAGE</b>	<b>1,045</b>	<b>847</b>	<b>194</b>	<b>3</b>	<b>*25,493</b>	
1973	<b>AVERAGE</b>	<b>1,059</b>	<b>859</b>	<b>212</b>	<b>4</b>	<b>*28,544</b>	
1974	<b>AVERAGE</b>	<b>993</b>	<b>836</b>	<b>163</b>	<b>3</b>	<b>*29,435</b>	
1975	<b>AVERAGE</b>	<b>1,001</b>	<b>871</b>	<b>133</b>	<b>2</b>	<b>*30,380</b>	
1976	January	948	889	69	3	30,618	
	February	965	918	71	4	31,180	
	March	965	927	86	2	32,619	
	April	1,010	927	108	2	33,332	
	May	960	899	106	1	34,664	
	June	972	879	68	1	33,879	
	July	1,099	933	130	2	32,732	
	August	965	942	38	2	33,121	
	September	1,048	990	63	2	33,204	
	October	911	890	50	2	34,032	
	November	978	920	56	3	33,859	
	December	1,027	900	72	2	32,085	
		<b>AVERAGE</b>	<b>987</b>	<b>918</b>	<b>76</b>	<b>2</b>	
1977	January	1,054	917	77	2	30,170	
	February	1,036	974	74	2	30,455	
	March	1,041	954	98	2	30,739	
	April	1,019	991	86	4	32,355	
	May	993	979	57	2	33,644	
	June	989	996	30	1	34,707	
	July	1,043	969	85	1	35,048	
	August	1,113	1,009	71	1	33,986	
	September	1,050	1,004	53	2	34,159	
	October	1,016	973	67	2	34,861	
	November	1,038	950	107	1	35,409	
	December	1,089	978	85	2	34,568	
		<b>AVERAGE</b>	<b>1,040</b>	<b>974</b>	<b>74</b>	<b>2</b>	
1978	January	980	922	60	1	34,603	
	February	1,107	994	69	2	33,332	
	March	1,112	972	98	2	32,003	
	April	R1,014	983	R119	1	R34,626	
	May	R995	R1,014	R108	2	R38,514	
	June	1,045	961	46	NA	37,409	
	July	R981	R928	R72	NA	R37,947	
	August	1,079	981	36	NA	35,244	
		<b>AVERAGE</b> (Year to date)	<b>1,038</b>	<b>969</b>	<b>76</b>	<b>2</b>	

\*Total as of December 31.

Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

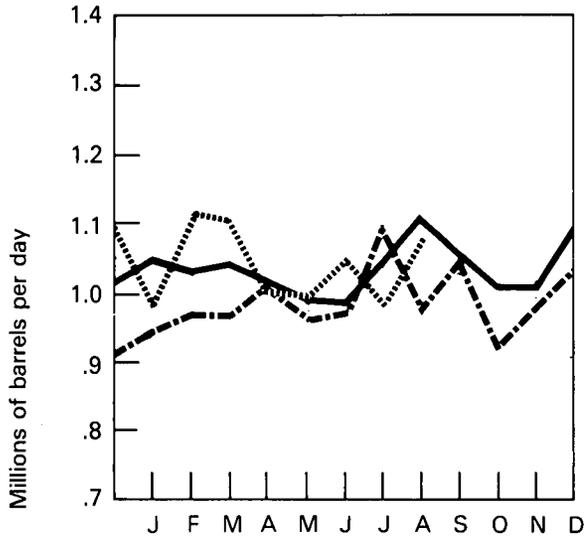
R=Revised data.

NA=Not available.

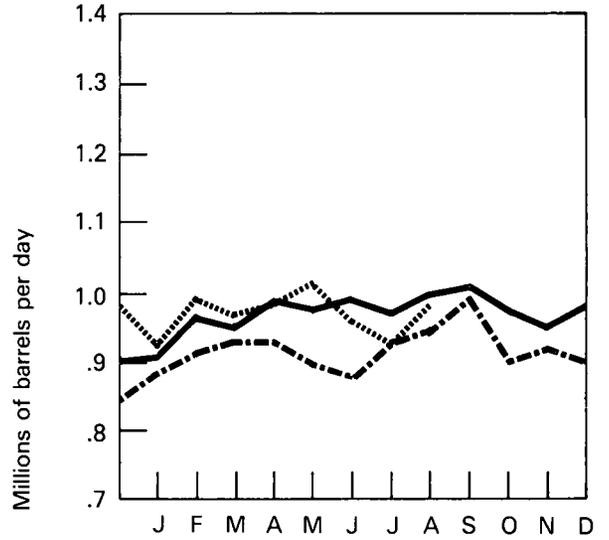
Sources: 1972 through 1976: Bureau of Mines (BOM) *Mineral Industry Surveys*, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly;" May 1977 through May 1978: Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" June 1978 through July 1978: EIA "Monthly Petroleum Statistics Report;" August 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin."

# Jet Fuel

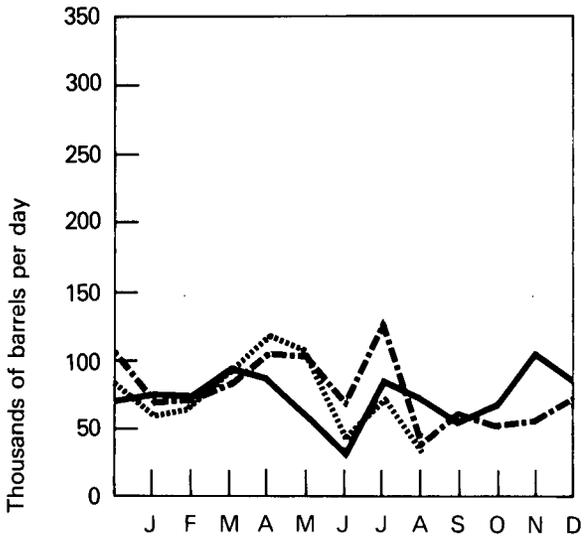
## Domestic Demand



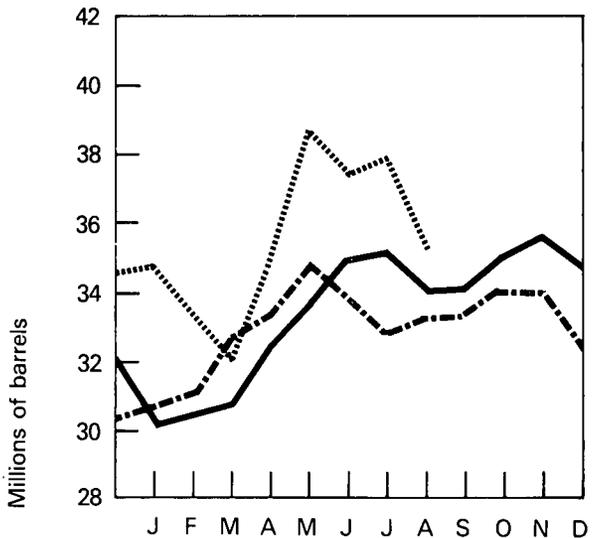
## Production



## Imports



## Stocks



- - - 1976 BOM  
 — 1977 BOM, EIA  
 ..... 1978 EIA, API

# Distillate Fuel Oil

		Domestic Demand	Production*	Imports	Exports	Stocks*
		Thousands of barrels per day				Thousands of barrels
<b>1972</b>	<b>AVERAGE</b>	<b>2,913</b>	<b>2,630</b>	<b>182</b>	<b>3</b>	<b>**154,284</b>
<b>1973</b>	<b>AVERAGE</b>	<b>3,092</b>	<b>2,820</b>	<b>392</b>	<b>9</b>	<b>**196,421</b>
<b>1974</b>	<b>AVERAGE</b>	<b>2,948</b>	<b>2,668</b>	<b>289</b>	<b>2</b>	<b>**200,029</b>
<b>1975</b>	<b>AVERAGE</b>	<b>2,851</b>	<b>2,653</b>	<b>155</b>	<b>1</b>	<b>**208,787</b>
<b>1976</b>	January	4,297	2,734	163	0	165,428
	February	3,697	2,961	218	1	150,439
	March	3,339	2,793	153	1	138,306
	April	2,788	2,655	96	1	137,249
	May	2,519	2,738	97	1	147,057
	June	2,436	2,885	151	1	165,064
	July	2,255	2,959	126	0	190,861
	August	2,237	2,982	131	4	217,930
	September	2,620	2,947	149	1	232,230
	October	3,031	2,995	144	1	235,599
	November	3,714	3,180	135	1	223,648
	December	4,667	3,255	196	1	185,948
	<b>AVERAGE</b>	<b>3,133</b>	<b>2,924</b>	<b>146</b>	<b>1</b>	
<b>1977</b>	January	5,111	3,375	350	1	142,989
	February	4,714	3,702	664	1	133,261
	March	3,421	3,179	519	1	141,882
	April	2,942	3,001	153	3	148,246
	May	2,777	3,124	99	0	162,123
	June	2,776	3,198	135	0	178,842
	July	2,545	3,192	192	0	204,899
	August	2,635	3,274	161	0	229,757
	September	2,717	3,314	169	1	252,783
	October	3,038	3,363	150	5	267,392
	November	3,420	3,339	188	3	270,571
	December	4,205	3,324	226	2	250,280
	<b>AVERAGE</b>	<b>3,352</b>	<b>3,279</b>	<b>248</b>	<b>1</b>	
<b>1978</b>	January	4,439	3,054	194	1	213,411
	February	4,831	2,937	209	16	165,830
	March	4,089	2,999	187	0	137,877
	April	R3,092	R2,941	100	6	R136,240
	May	R3,044	R3,208	R119	1	R145,046
	June	2,844	3,116	146	NA	157,523
	July	R2,605	R3,152	R144	NA	R178,934
	August	2,841	3,229	105	NA	194,815
	<b>AVERAGE</b> (Year to date)	<b>3,461</b>	<b>3,082</b>	<b>150</b>	<b>5</b>	

\*See Definitions.

\*\*Total as of December 31.

Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

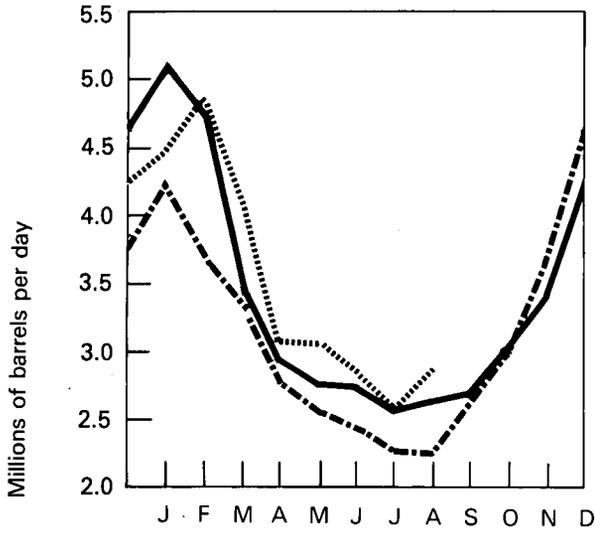
R=Revised data.

NA=Not available.

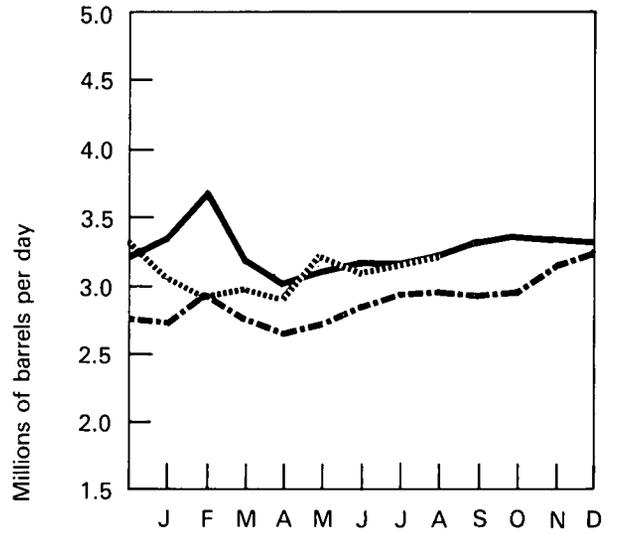
Sources: 1972 through 1976: Bureau of Mines (BOM) *Mineral Industry Surveys*, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly;" May 1977 through May 1978: Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" June 1978 through July 1978: EIA "Monthly Petroleum Statistics Report;" August 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin."

# Distillate Fuel Oil

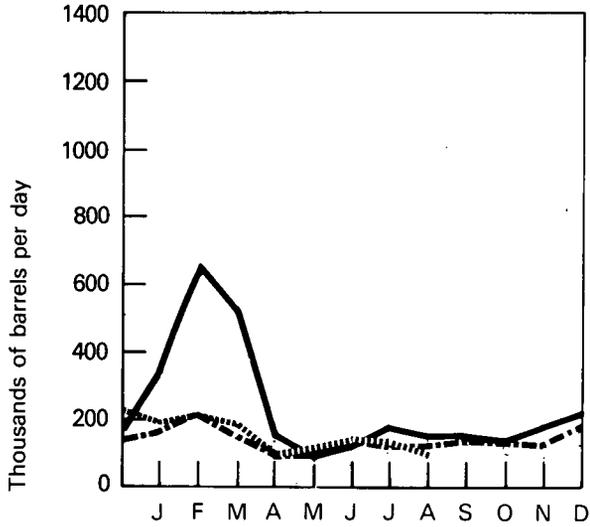
Domestic Demand



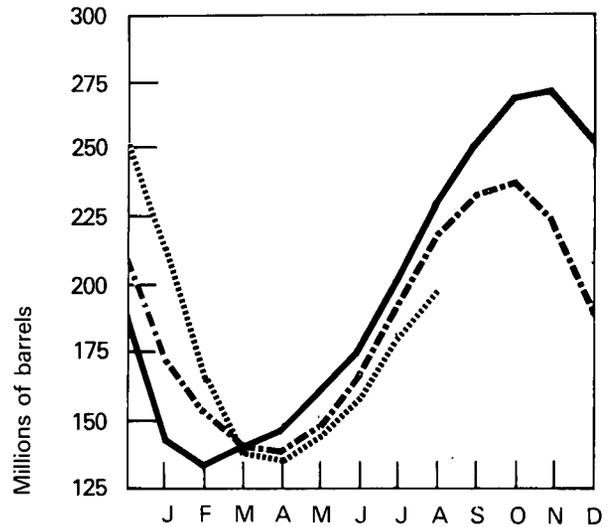
Production



Imports



Stocks



- - - 1976 BOM  
 — 1977 BOM, EIA  
 ..... 1978 EIA, API

# Residual Fuel Oil

		Domestic Demand	Production	Imports	Exports	Stocks
		Thousands of barrels per day				Thousands of barrels
1972	AVERAGE	2,529	799	1,742	33	*55,216
1973	AVERAGE	2,822	971	1,853	23	*53,480
1974	AVERAGE	2,639	1,070	1,587	14	*59,694
1975	AVERAGE	2,462	1,235	1,223	15	*74,126
1976	January	3,118	1,415	1,455	13	66,592
	February	3,077	1,394	1,774	30	68,859
	March	2,779	1,311	1,342	10	65,132
	April	2,496	1,283	1,258	18	66,458
	May	2,439	1,257	1,134	10	65,147
	June	2,509	1,241	1,229	7	64,272
	July	2,548	1,266	1,455	11	69,812
	August	2,678	1,321	1,307	8	68,490
	September	2,526	1,330	1,452	8	76,436
	October	2,547	1,351	1,270	5	79,117
	November	3,253	1,581	1,474	16	73,284
	December	3,645	1,772	1,828	4	72,344
		<b>AVERAGE</b>	<b>2,801</b>	<b>1,377</b>	<b>1,413</b>	<b>12</b>
1977	January	3,741	1,889	1,596	2	64,749
	February	3,662	1,951	1,943	8	71,414
	March	3,150	1,715	1,417	3	71,186
	April	2,855	1,687	1,125	3	70,165
	May	2,719	1,671	1,145	5	73,376
	June	2,954	1,714	1,181	2	71,924
	July	2,805	1,729	1,271	18	77,770
	August	3,046	1,634	1,441	9	78,762
	September	2,926	1,750	1,458	3	87,522
	October	2,707	1,749	1,218	2	95,896
	November	2,819	1,695	1,094	7	95,155
	December	3,364	1,839	1,348	12	89,673
		<b>AVERAGE</b>	<b>3,059</b>	<b>1,751</b>	<b>1,350</b>	<b>6</b>
1978	January	3,496	1,872	1,358	13	81,434
	February	3,964	1,801	1,565	10	64,852
	March	3,536	1,758	1,700	22	62,187
	April	R2,992	R1,554	1,565	7	R66,229
	May	R2,667	R1,646	R1,221	16	R72,359
	June	2,594	1,586	1,011	NA	71,734
	July	R2,777	R1,615	R1,286	NA	R75,066
	August	2,961	1,641	1,200	NA	72,508
	<b>AVERAGE</b> (Year to date)	<b>3,116</b>	<b>1,684</b>	<b>1,361</b>	<b>14</b>	

\*Total as of December 31.

Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

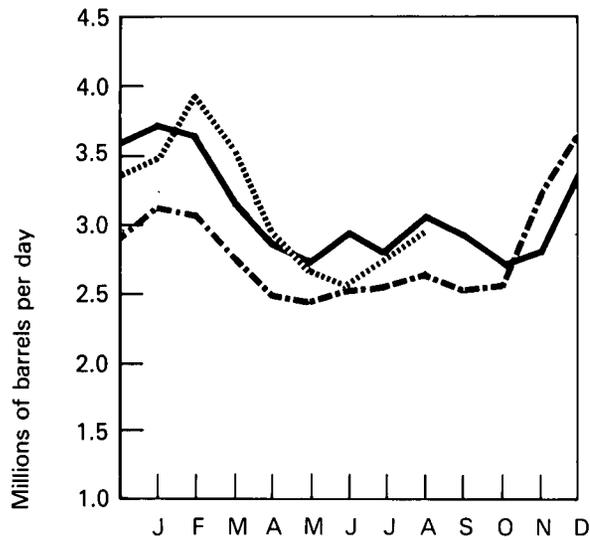
R=Revised data.

NA=Not available.

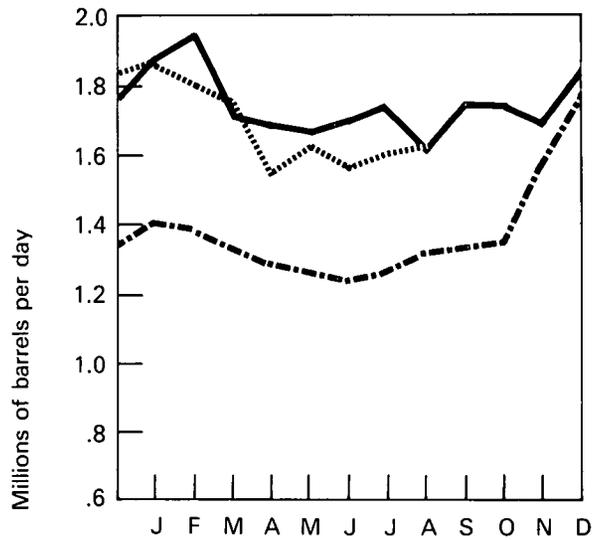
Sources: 1972 through 1976: Bureau of Mines (BOM) *Mineral Industry Surveys*, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly;" May 1977 through May 1978: Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" June 1978 through July 1978: EIA "Monthly Petroleum Statistics Report;" August 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin."

# Residual Fuel Oil

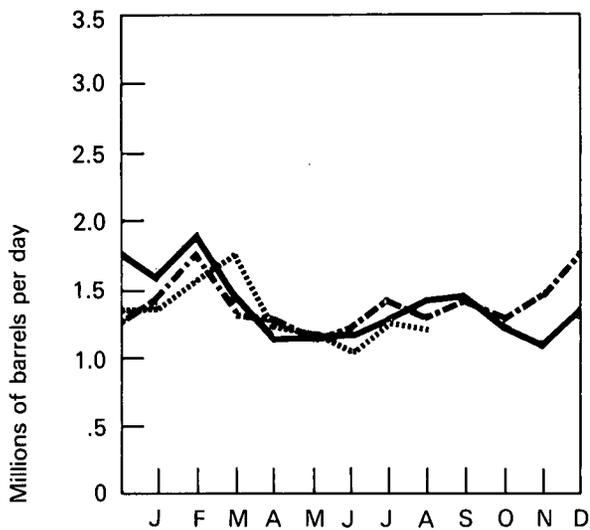
## Domestic Demand



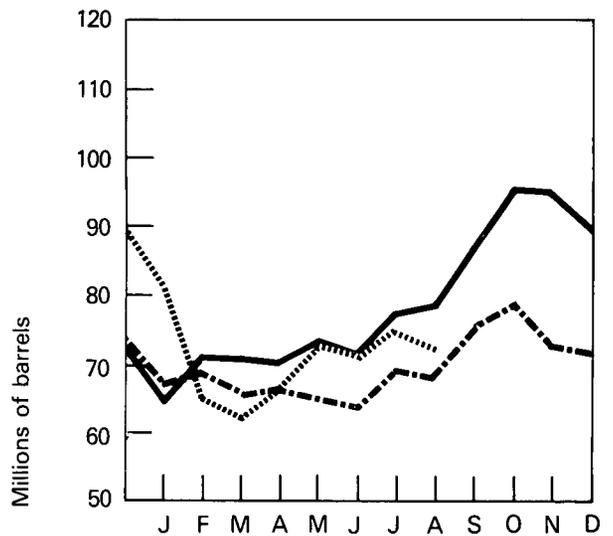
## Production



## Imports



## Stocks



- - - 1976 BOM  
 — 1977 BOM, EIA  
 ..... 1978 EIA, API

# Natural Gas Liquids

		Domestic Demand*	Production*		Used at Refineries*	Imports	Stocks*
			At processing plants	At refineries			
Thousands of barrels per day							
Thousands of barrels							
1972	<b>AVERAGE</b>	<b>1,420</b>	<b>1,744</b>	<b>365</b>	<b>826</b>	<b>174</b>	<b>**92,024</b>
1973	<b>AVERAGE</b>	<b>1,454</b>	<b>1,738</b>	<b>375</b>	<b>815</b>	<b>239</b>	<b>**106,659</b>
1974	<b>AVERAGE</b>	<b>1,422</b>	<b>1,688</b>	<b>338</b>	<b>746</b>	<b>212</b>	<b>**120,175</b>
1975	<b>AVERAGE</b>	<b>1,352</b>	<b>1,633</b>	<b>311</b>	<b>710</b>	<b>185</b>	<b>**132,653</b>
1976	January	1,885	1,585	305	728	240	116,707
	February	1,518	1,640	316	793	270	113,373
	March	1,303	1,615	333	674	194	117,486
	April	1,201	1,616	349	716	171	123,100
	May	1,138	1,581	376	673	144	131,421
	June	1,110	1,606	356	718	163	139,291
	July	1,103	1,592	354	710	147	147,034
	August	1,213	1,596	362	695	160	152,704
	September	1,243	1,602	352	713	152	156,436
	October	1,497	1,601	309	709	203	152,666
	November	1,747	1,615	331	726	244	143,422
	December	1,921	1,589	341	853	269	124,518
		<b>AVERAGE</b>	<b>1,407</b>	<b>1,603</b>	<b>340</b>	<b>725</b>	<b>196</b>
1977	January	2,018	1,549	323	730	331	106,524
	February	1,887	1,589	336	693	238	94,128
	March	1,354	1,687	331	688	239	100,025
	April	1,228	1,664	337	672	198	108,235
	May	1,167	1,620	397	614	165	120,018
	June	1,235	1,616	364	622	203	129,315
	July	1,133	1,609	381	594	157	141,631
	August	1,181	1,593	360	659	204	150,830
	September	1,220	1,585	355	654	148	156,726
	October	1,242	1,632	355	710	168	162,440
	November	1,765	1,627	352	700	187	152,971
	December	1,760	1,637	345	727	254	144,617
		<b>AVERAGE</b>	<b>1,430</b>	<b>1,618</b>	<b>353</b>	<b>672</b>	<b>208</b>
1978	January	1,867	1,557	327	645	201	130,797
	February	1,802	1,562	338	659	207	120,274
	March	1,429	1,590	362	601	132	121,317
	April	R1,161	R1,619	R349	R599	R100	R130,002
	May	R1,170	R1,530	R363	R498	R109	R139,581
	June***	R1,397	1,597	360	595	195	143,800
	July***	1,222	1,577	350	575	160	152,200
	August***	1,414	1,568	368	582	180	155,400
		<b>AVERAGE</b> (8 months)	<b>1,430</b>	<b>1,575</b>	<b>352</b>	<b>593</b>	<b>160</b>

\*See Explanatory Note 5.

\*\*Total as of December 31.

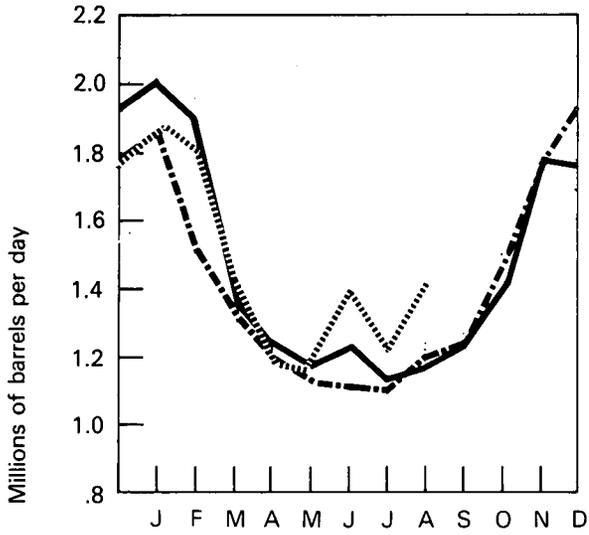
\*\*\*Estimated.

R=Revised data.

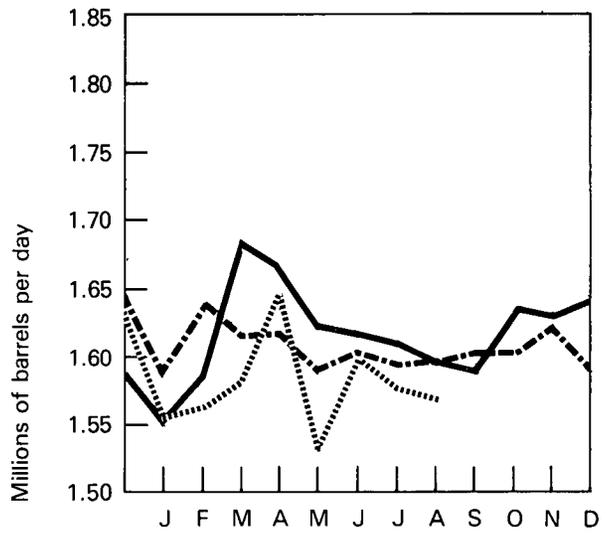
Source: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly" through April 1977; EIA *Energy Data Reports*, "Petroleum Statement, Monthly" for May 1977 through March 1978, and EIA estimates for April 1978 forward.

# Natural Gas Liquids

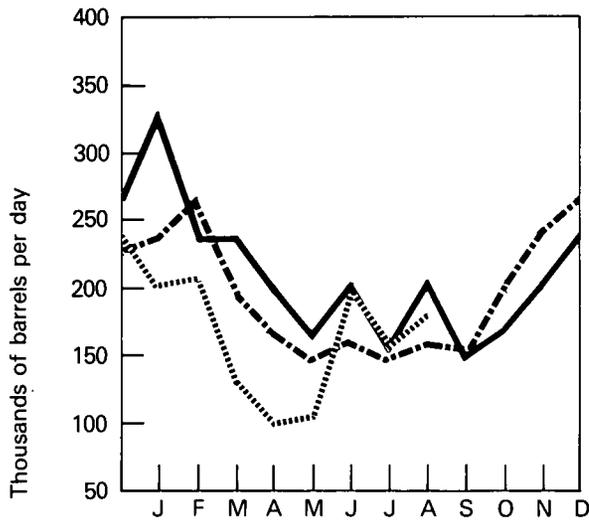
## Domestic Demand



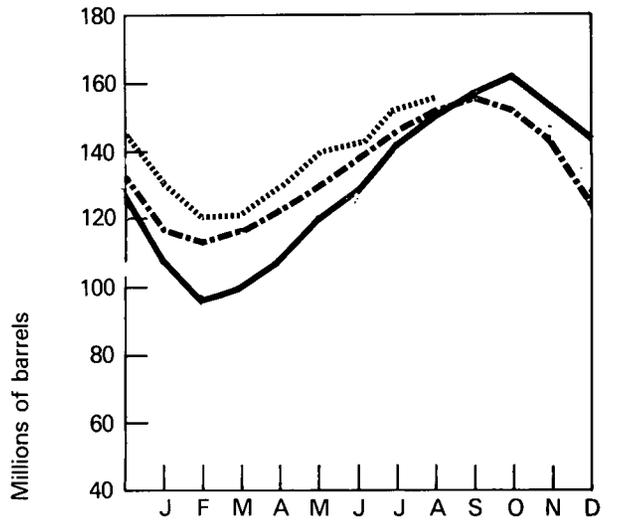
## Production at Processing Plants



## Imports



## Stocks



- - - 1976 BOM  
 — 1977 BOM, EIA  
 ..... 1978 EIA

# U.S. Petroleum Supply and Demand

1977  
Actual

	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Year
Thousands of barrels per day					
<b>Supply</b>					
Crude oil and lease condensate production	7,956	8,042	8,231	8,481	8,179
Natural gas plant liquids production	1,609	1,633	1,596	1,632	1,618
Other hydrocarbon supply	43	54	52	52	50
Crude oil imports <sup>1</sup>	6,520	6,867	6,624	6,182	6,548
Refined products imports <sup>2</sup>	2,813	1,836	2,110	1,955	2,176
Total new supply	18,941	18,432	18,613	18,302	18,571
Processing gain	521	450	543	569	521
Stock change—all oils <sup>3</sup>	-278	+1,190	+1,177	+12	+528
Total net supply	19,740	17,692	17,979	18,859	18,564
Unaccounted for crude oil <sup>4</sup>	+114	+88	+59	+172	+113
<b>Demand</b>					
Crude oil and refined products exports	210	245	259	255	243
Crude oil losses	15	15	16	16	16
Domestic demand for refined products <sup>5</sup>	19,629	17,520	17,764	18,776	18,418
Total demand	19,854	17,780	18,039	19,047	18,677

1978 Actual		1978 First Half Year	1977 First Half Year
1st Qtr.	2nd Qtr.		
Thousand of barrels per day			

## Supply

Crude oil and lease condensate production	8,514	R8,707	R8,611	7,999
Natural gas plant liquids production	1,570	R1,581	R1,576	1,621
Other hydrocarbon supply	56	R48	R52	49
Crude oil imports <sup>1</sup>	5,845	R5,667	5,755	6,694
Refined products imports <sup>2</sup>	2,238	R1,822	R2,029	2,322
Total new supply	18,223	R17,825	R18,024	18,685
Processing gain	489	R479	R484	485
Stock change—all oils <sup>3</sup>	-1,712	R-58	R-880	+460
Total net supply	20,424	R18,362	R19,388	18,710
Unaccounted for crude oil <sup>4</sup>	-126	R+87	R-19	+102

## Demand

Crude oil and refined products exports	246	R321	R284	228
Crude oil losses	15	R16	R16	15
Domestic demand for refined products <sup>5</sup>	20,037	R18,112	R19,069	18,569
Total demand	20,298	R18,449	R19,369	18,812

<sup>1</sup>Excludes crude oil imported for the Strategic Petroleum Reserve.

<sup>2</sup>Includes plant condensate and unfinished oils.

<sup>3</sup>Excludes petroleum stored in the Strategic Petroleum Reserve.

<sup>4</sup>Balancing item resulting from statistical inconsistencies.

<sup>5</sup>Includes international bunkers.

R=Revised Data

Note: 1978 data are preliminary.

Sources: 1st Quarter 1977—BOM *Mineral Industry Surveys*, "Petroleum Statement, Monthly;" 2nd, 3rd, and 4th Quarters 1977 and 1st Quarter 1978—BOM *Mineral Industry Surveys*, "Petroleum Statement, Monthly," and Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" 2nd Quarter 1978—EIA *Energy Data Reports*, "Petroleum Statement, Monthly —EIA "Monthly Petroleum Statistics Report," and EIA estimates.

# Strategic Petroleum Reserve

		Crude Oil Deliveries*	Cumulative Deliveries	Average Delivered Price	Cumulative Average Delivered Price
		Barrels		Dollars per barrel	
<b>1977</b>	July	414,172	414,172	13.565	13.565
	August	0	414,172	—	—
	September	674,961	1,089,133	13.59	13.58
	October	1,539,263	2,628,396	14.22	13.95
	November	2,434,463	5,062,859	14.50	14.21
	December	2,455,466	7,518,325	14.58	14.33
<b>1978</b>	January	3,531,481	11,049,806	14.46	14.37
	February	3,058,683	14,108,489	14.38	14.37
	March	4,106,270	18,214,759	14.46	14.39
	April	3,252,374	21,467,133	14.95	14.47
	May	4,115,953	25,583,086	15.28	14.60
	June	4,389,042	29,972,128	14.50	14.58
	July	4,786,928	34,759,056	14.52	14.57
	August	5,683,931	40,442,987	14.43	14.55

\*Does not include cargoes in transit at the end of the reporting month, nor cargoes that discharged into Caribbean transshipment terminals for eventual transfer to SPRO terminals.

Source: U.S. Department of Energy, Strategic Petroleum Reserve Office.

## Natural Gas

period January through June 1977, and the ratio of such sales to marketed production was approximately 49 percent during both periods.

Domestic consumption of natural gas in August 1978 was an estimated 8.4 percent lower than in August 1977. Estimated consumption during the period January through August 1978, however, was 3.5 percent higher than during the first 8 months of 1977.

Marketed production of natural gas in August was an estimated 2.7 percent less than in August 1977, and production during the period January through August 1978 was an estimated 1.9 percent lower than during the comparable 1977 period.

Imports of natural gas in August 1978 were an estimated 12.8 percent less than in the previous August, and estimated imports during the first 8 months of 1978 were 9.1 percent below those for the comparable 1977 period. Most of this decline was in deliveries of Canadian gas to the west coast area. Receipts of foreign natural gas during the period January through August 1978 included Algerian liquefied natural gas (LNG) equivalent to approximately 18 billion cubic feet shipped to the large-scale LNG receiving terminals at Cove Point, Maryland and Elba Island, Georgia. Of the 7 tanker loads of LNG received at these terminals to date, 5 were landed at Cove Point and 2 at Elba Island.

Working gas\* in underground natural gas storage reservoirs at the end of August 1978 was within 3.8 percent of that available a year earlier. This considerable improvement in working gas stocks since the end of May 1978, when they were 13.9 percent less than a year earlier, resulted from record level net injections during June through August 1978, which totaled 120 billion cubic feet more than during the same period in 1977. Net injections into storage during August 1978 were 30.0 percent higher than in the previous August.

Domestic producer sales of natural gas to major interstate pipeline companies in June 1978 were 2.7 percent lower than during the previous June. Sales in the first half of 1978 declined 2.2 percent from those during the

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\*Gas available for withdrawal.

# Natural Gas

		Domestic Consumption*	Marketed Production*	Domestic Producer Sales to Major Interstate Pipelines	Imports	Exports
Billion cubic feet						
<b>1972</b>	<b>TOTAL</b>	<b>22,102</b>	<b>22,532</b>	<b>12,429</b>	<b>1,019</b>	<b>78</b>
<b>1973</b>	<b>TOTAL</b>	<b>22,049</b>	<b>22,648</b>	<b>12,067</b>	<b>1,033</b>	<b>77</b>
<b>1974</b>	<b>TOTAL</b>	<b>21,223</b>	<b>21,601</b>	<b>11,462</b>	<b>959</b>	<b>77</b>
<b>1975</b>	<b>TOTAL</b>	<b>19,538</b>	<b>20,109</b>	<b>10,652</b>	<b>953</b>	<b>73</b>
<b>1976</b>	January	2,291	1,751	894	84	5
	February	1,938	1,647	850	78	5
	March	1,721	1,714	894	85	6
	April	1,508	1,623	849	86	6
	May	1,434	1,673	860	82	5
	June	1,335	1,640	815	76	5
	July	1,372	1,676	822	73	6
	August	1,317	1,636	810	77	6
	September	1,302	1,565	793	74	6
	October	1,621	1,639	840	85	5
	November	1,875	1,635	841	81	5
	December	2,232	1,753	872	83	5
	<b>TOTAL</b>	<b>19,946</b>	<b>19,952</b>	<b>10,140</b>	<b>964</b>	<b>65</b>
<b>1977</b>	January	2,386	R1,740	848	85	5
	February	1,793	R1,674	807	85	4
	March	1,693	R1,751	910	106	4
	April	1,408	R1,644	830	82	3
	May	1,352	R1,692	830	84	3
	June	1,311	R1,648	789	76	5
	July	1,304	R1,674	801	74	7
	August	1,343	R1,645	784	78	5
	September	1,403	R1,598	741	78	5
	October	1,490	R1,628	831	85	5
	November	1,663	R1,606	830	86	5
	December	2,082	R1,725	882	90	5
	<b>TOTAL</b>	<b>19,228</b>	<b>R20,025</b>	<b>9,883</b>	<b>1,009</b>	<b>56</b>
<b>1978</b>	January	2,353	1,707	862	87	5
	February	2,116	1,618	756	77	4
	March	1,889	1,714	861	86	4
	April	R1,513	R1,636	836	78	3
	May	R1,353	R1,629	819	76	4
	June	1,270	**1,640	768	R67	5
	July	1,310	**1,670	NA	**70	6
	August	1,230	**1,600	NA	**68	5
	<b>TOTAL</b> (Year to date)	<b>13,034</b>	<b>13,214</b>	<b>4,902</b> (6 months)	<b>609</b>	<b>36</b>

\*See Explanatory Note 6.

\*\*Preliminary data.

R=Revised data.

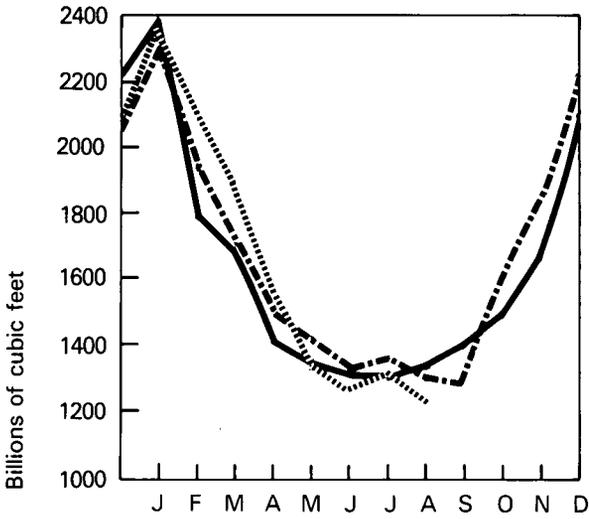
NA=Not available.

Note: All monthly Domestic Consumption and 1978 Exports data are estimated.

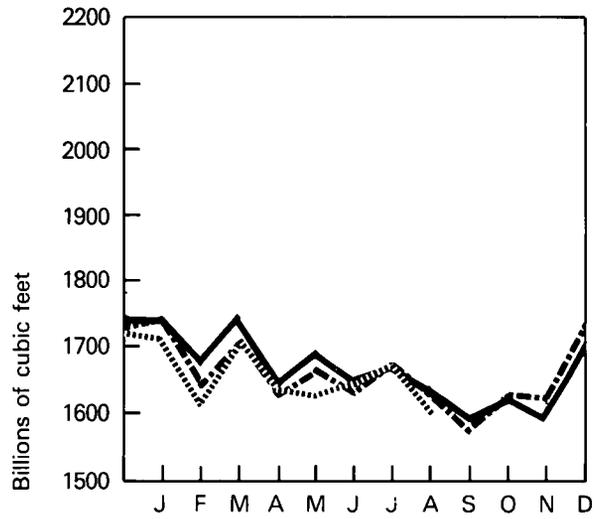
Sources: Domestic Consumption—EIA estimates; Marketed Production, Imports, and Exports—Bureau of Mines *mineral Industry Surveys*, "Natural Gas, Monthly" through June 1977 and EIA *Energy Data Reports*, "Natural Gas, Monthly" for July 1977 forward; Domestic Producer Sales—Federal Power Commission Form 11, "Monthly Statement of Gas Operating Revenues, Sales."

# Natural Gas

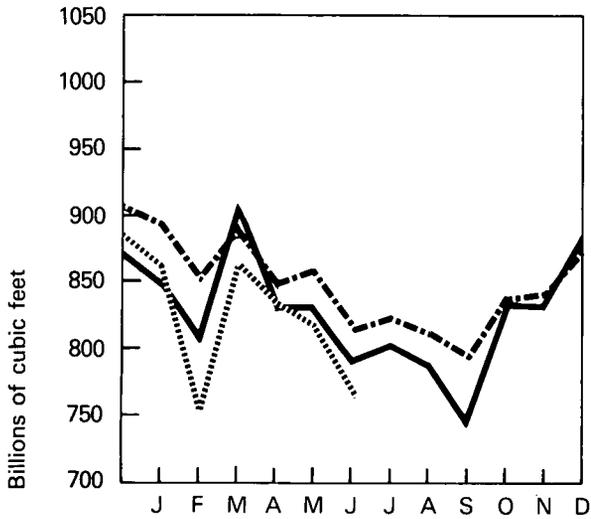
**Domestic Consumption**



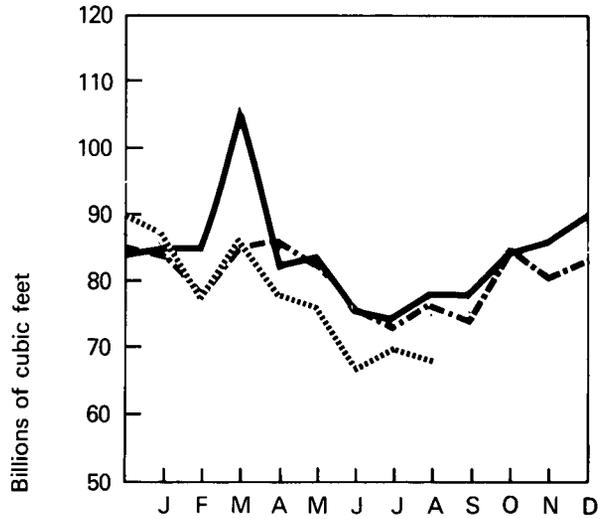
**Marketed Production**



**Domestic Producer Sales to Major Interstate Pipelines**



**Imports**



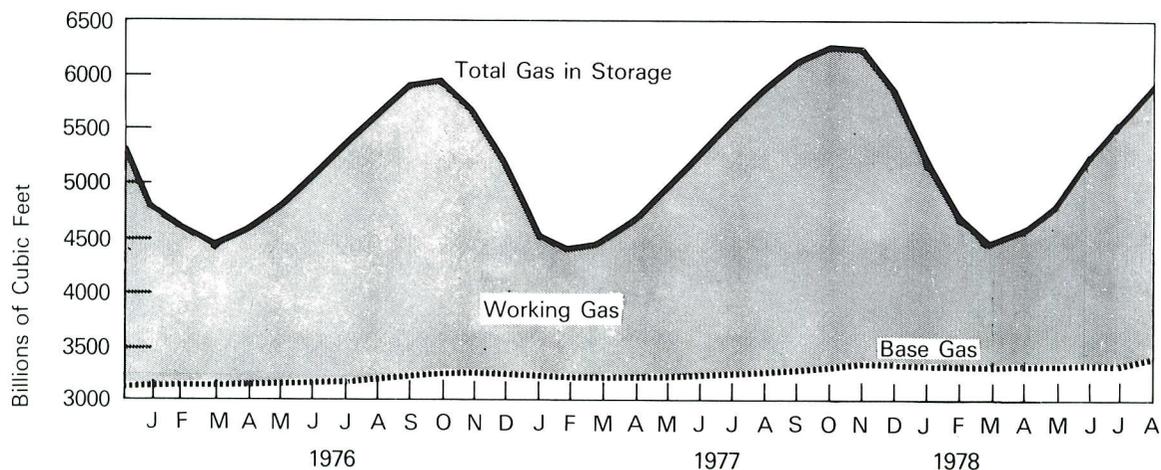
- - - 1976  
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# Natural Gas (Continued)

## Natural Gas in Underground Storage\*

		Total Gas in Storage	Base Gas	Working Gas	Storage Injections	Storage Withdrawals	Net Storage Injections
Billion cubic feet							
<b>1975</b>	September	5,553	3,085	2,468	220	31	189
	October	5,706	3,107	2,599	190	51	139
	November	5,691	3,150	2,541	98	146	-48
	December	5,358	3,150	2,208	38	371	-333
<b>1976</b>	January	4,817	3,169	1,648	17	526	-509
	February	4,617	3,173	1,444	66	265	-199
	March	4,496	3,170	1,326	79	200	-121
	April	4,607	3,184	1,423	185	75	110
	May	4,827	3,190	1,637	245	24	221
	June	5,116	3,208	1,908	304	27	277
	July	5,412	3,220	2,192	301	6	295
	August	5,698	3,251	2,447	298	17	281
	September	5,946	3,296	2,650	259	22	237
	October	5,966	3,302	2,664	135	116	19
	November	5,713	3,305	2,408	40	291	-251
	December	5,231	3,310	1,921	23	505	-482
<b>1977</b>	January	4,580	3,293	1,287	18	670	-652
	February	4,446	3,283	1,163	101	235	-134
	March	4,501	3,286	1,215	187	132	55
	April	4,713	3,286	1,427	256	43	213
	May	5,024	3,293	1,731	329	17	312
	June	5,330	3,300	2,030	317	12	305
	July	5,665	3,317	2,348	348	15	333
	August	5,945	3,346	2,599	290	21	269
	September	6,188	3,364	2,824	262	2	260
	October	6,302	3,373	2,929	157	44	113
	November	6,224	3,403	2,821	84	160	-76
	December	5,844	3,377	2,467	41	416	-375
<b>1978</b>	January	5,193	3,374	1,819	21	668	-647
	February	4,683	3,373	1,310	21	530	-509
	March	4,497	3,374	1,123	92	278	-186
	April	4,608	3,377	1,231	179	68	111
	May	4,870	3,378	1,491	291	30	261
	June	5,217	3,381	1,836	365	18	347
	July	5,550	3,386	2,164	349	16	333
	August	5,904	3,403	2,501	359	12	347

### Gas in Storage



\*See Explanatory Note 7.

Sources: Federal Energy Administration Form G318-M-O and Federal Power Commission Form 8 "Underground Gas Storage Report."

## **Oil and Gas Exploration and Development**

The rotary rig count climbed to 2,332 in September 1978, the highest September count since 1957.

Well completions rose in August 1978 to 3,891. For the January through August 1978 period the number of wells drilled was up 8 percent from the number drilled during the corresponding period in 1977. Compared to the first 8 months of 1977, oil well completions in 1978 were down 1.3 percent, while gas wells were up 18.9 percent and dry holes were up 11.9 percent. Total footage drilled rose 10.4 percent during the period.

# Oil and Gas Exploration and Development

		Rotary Rigs in Operation	Exploratory and Development Wells Drilled*				Total Footage of Wells Drilled*		
		Monthly Average	Oil	Gas	Dry	Total	Thousands of feet		
<b>1972</b>	<b>AVERAGE</b>	<b>1,107</b>	<b>TOTAL</b>	<b>11,306</b>	<b>4,928</b>	<b>11,057</b>	<b>27,291</b>	<b>134,602</b>	
<b>1973</b>	<b>AVERAGE</b>	<b>1,194</b>	<b>TOTAL</b>	<b>9,902</b>	<b>6,385</b>	<b>10,305</b>	<b>26,592</b>	<b>136,391</b>	
<b>1974</b>	<b>AVERAGE</b>	<b>1,475</b>	<b>TOTAL</b>	<b>12,784</b>	<b>7,240</b>	<b>11,674</b>	<b>31,698</b>	<b>150,551</b>	
<b>1975</b>	<b>AVERAGE</b>	<b>1,660</b>	<b>TOTAL</b>	<b>16,408</b>	<b>7,580</b>	<b>13,247</b>	<b>37,235</b>	<b>174,434</b>	
<b>1976</b>	January	1,710		1,465	772	1,055	3,292	14,517	
	February	1,594		1,341	652	1,159	3,152	14,888	
	March	1,540		1,726	821	1,301	3,848	18,126	
	April	1,480		1,237	672	994	2,903	13,765	
	May	1,496		1,501	658	1,104	3,263	14,196	
	June	1,546		1,500	709	1,123	3,332	14,780	
	July	1,597		1,312	730	916	2,958	13,716	
	August	1,691		1,265	711	1,140	3,116	14,697	
	September	1,744		1,474	909	1,199	3,582	16,777	
	October	1,794		1,396	750	1,123	3,269	14,542	
	November	1,840		1,291	698	1,222	3,211	14,642	
	December	1,860		1,512	926	1,414	3,852	17,093	
		<b>AVERAGE</b>	<b>1,656</b>	<b>TOTAL**</b>	<b>17,059</b>	<b>9,085</b>	<b>13,621</b>	<b>39,765</b>	<b>181,780</b>
<b>1977</b>	January	1,850		1,391	732	1,096	3,219	14,517	
	February	1,856		1,321	705	999	3,025	14,443	
	March	1,887		1,817	958	1,297	4,072	19,400	
	April	1,907		1,405	818	1,059	3,282	15,523	
	May	1,982		1,382	877	1,150	3,409	16,702	
	June	2,008		1,720	952	1,270	3,942	18,767	
	July	2,023		1,304	724	1,022	3,050	14,529	
	August	2,066		1,400	961	1,179	3,540	16,838	
	September	2,084		1,924	1,105	1,288	4,317	19,333	
	October	2,101		1,562	1,024	1,254	3,840	18,000	
	November	2,113		1,785	1,091	1,447	4,323	19,537	
	December	2,141		1,875	1,387	1,569	4,831	21,365	
		<b>AVERAGE</b>	<b>2,001</b>	<b>TOTAL**</b>	<b>18,912</b>	<b>11,378</b>	<b>14,692</b>	<b>44,982</b>	<b>210,848</b>
<b>1978</b>	January	2,128		1,184	783	1,233	3,200	15,394	
	February	2,135		1,486	851	1,239	3,576	16,933	
	March	2,158		1,499	1,247	1,420	4,166	20,392	
	April	2,198		1,369	971	1,112	3,452	17,559	
	May	2,249		1,209	1,004	1,166	3,379	17,189	
	June	2,286		1,812	1,071	1,489	4,372	21,115	
	July	2,307		1,503	985	1,191	3,679	17,258	
	August	2,325		1,516	1,085	1,290	3,891	18,440	
	September	2,332		NA	NA	NA	NA	NA	
		<b>AVERAGE</b>	<b>2,235</b>	<b>TOTAL**</b>	<b>11,586</b>	<b>8,000</b>	<b>10,152</b>	<b>29,738</b>	<b>144,360</b>
		(9 months)		(8 months)					

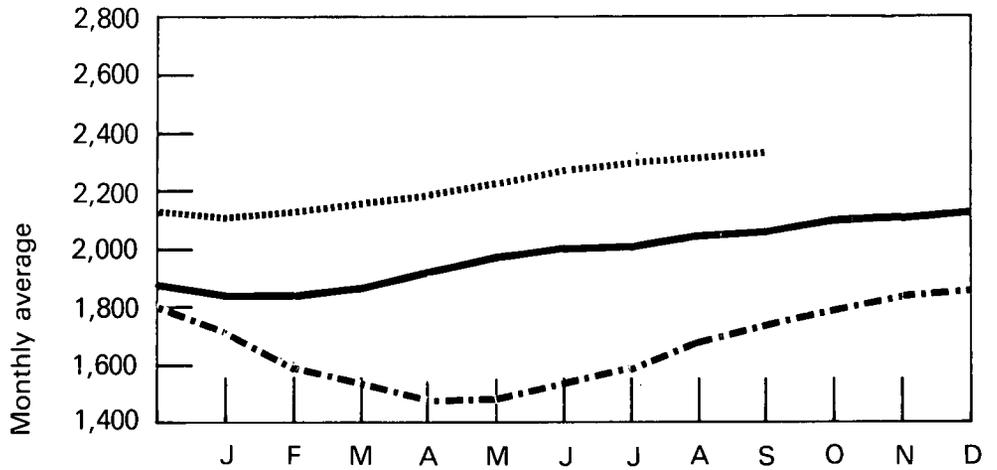
\*Excludes service wells and stratigraphic and core tests.

\*\*Totals reflect subsequent data revisions and therefore may not agree with cumulative monthly data.

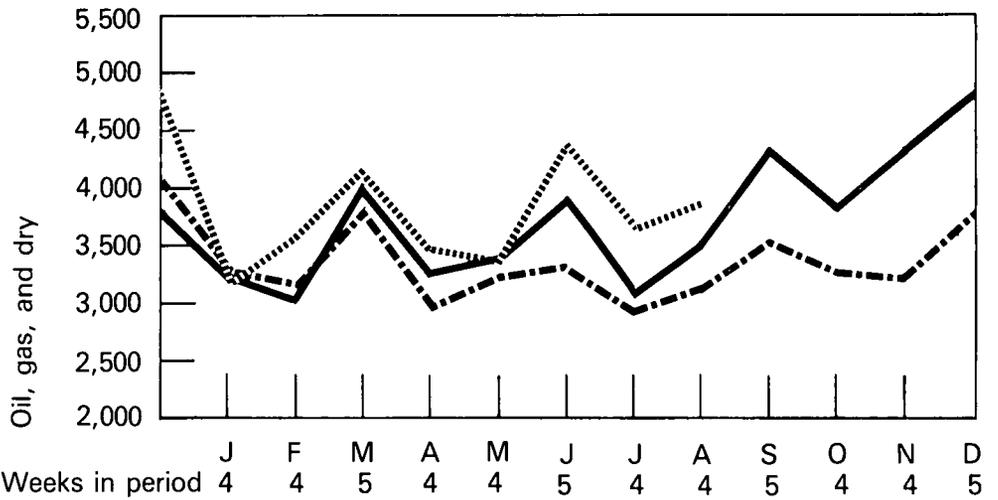
NA=Not available.

Sources: Rotary Rigs: Hughes Tool Company "Rotary Rigs Running - By State;" Wells: American Petroleum Institute "Monthly Drilling Report" and "Quarterly Review of Drilling Statistics for the United States."

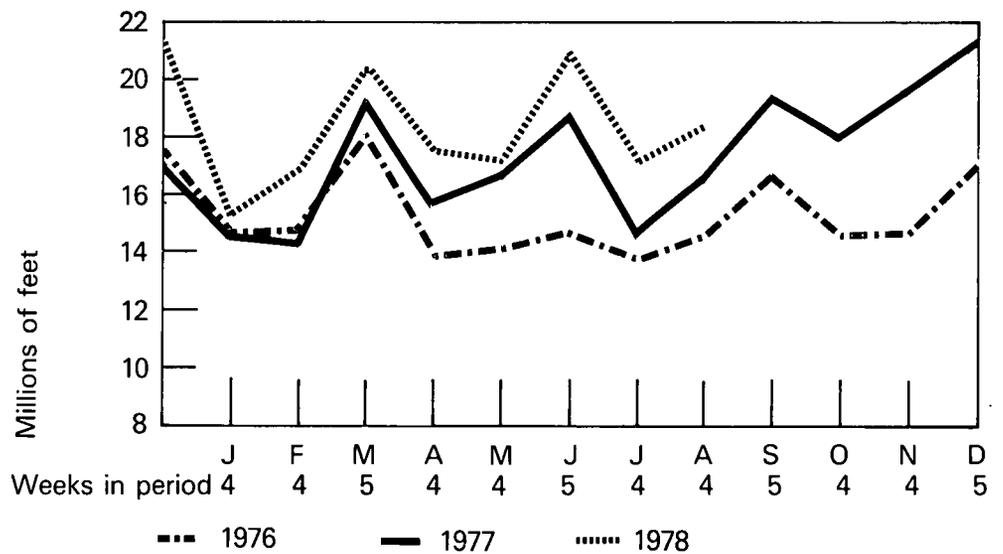
### Rotary Rigs in Operation



### Total Wells Drilled

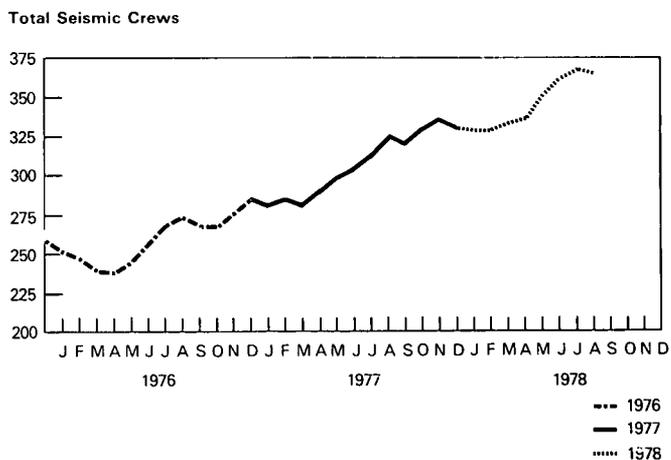


### Total Footage of Wells Drilled



# Oil and Gas Exploration and Development (Continued)

		Crews Engaged in Seismic Exploration			Line Miles of Seismic Exploration		
		Offshore	Onshore	Total	Offshore	Onshore	Total
		Monthly average			Monthly average		
<b>1972</b>	<b>Year</b>	<b>12</b>	<b>239</b>	<b>251</b>	<b>10,306</b>	<b>9,333</b>	<b>19,639</b>
<b>1973</b>	<b>Year</b>	<b>23</b>	<b>227</b>	<b>250</b>	<b>21,579</b>	<b>10,597</b>	<b>32,175</b>
<b>1974</b>	<b>Year</b>	<b>31</b>	<b>274</b>	<b>305</b>	<b>28,482</b>	<b>13,219</b>	<b>41,701</b>
<b>1975</b>	<b>Year</b>	<b>30</b>	<b>254</b>	<b>284</b>	<b>25,773</b>	<b>12,558</b>	<b>38,331</b>
<b>1976</b>	<b>Year</b>	<b>25</b>	<b>237</b>	<b>262</b>	<b>18,859</b>	<b>11,910</b>	<b>30,769</b>
<b>1977</b>	<b>Year</b>	<b>27</b>	<b>281</b>	<b>308</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>1976</b>	January	20	232	252			
	February	17	232	249			
	March	18	222	240			
	April	17	221	238			
	May	21	226	247			
	June	29	229	258			
	July	30	240	270			
	August	33	242	275			
	September	28	240	268			
	October	21	246	267			
	November	25	250	275			
	December	27	259	286			
<b>1977</b>	January	26	254	280			
	February	27	259	286			
	March	22	260	282			
	April	26	266	292			
	May	29	272	301			
	June	31	274	305			
	July	30	285	315			
	August	31	295	326			
	September	29	291	320			
	October	28	302	330			
	November	26	309	335			
	December	26	303	329			
<b>1978</b>	January	26	302	328			
	February	23	305	328			
	March	20	314	334			
	April	21	315	336			
	May	21	330	351			
	June	26	336	362			
	July	26	341	367			
	August	27	338	365			
<b>AVERAGE</b> (8 months)	<b>24</b>	<b>323</b>	<b>347</b>				



NA=Not available.

Source: Society of Exploration Geophysicists "Monthly Seismic Crew Count" and annual reports published in *Geophysics*.

## Coal

Bituminous coal and lignite production increased from 52.1 million tons in July 1978 to 62.2 million tons in August. Production through the first 8 months of 1978 totaled 393.5 million tons, 58.8 million tons or 13.0 percent below the output level for the same period in 1977.

Domestic consumption of bituminous coal and lignite totaled 55.4 million tons in July 1978, down 1.3 percent from the amount consumed during July 1977. In the first 7 months of 1978, domestic coal consumption was 345.7 million tons, 4.0 percent below consumption for the same period in 1977. Electric utility coal consumption\* was 44.0 million tons in July 1978 compared with 44.8 million tons in July 1977. Utilities consumed 268.6 million tons in the first 7 months of 1978, 4.9 million tons less than the amount consumed in the same period a year earlier. Coke plants, the second largest coal consuming sector, used 6.5 million tons in July 1978. In the first 7 months of 1978, coal consumption by coke plants was 38.3 million tons, 8.6 million tons below the amount consumed in the same period a year earlier. Coal consumption by the general industry sector totaled 34.4 million tons, 1.1 million tons less than for the January through July 1977 period. Shipments of coal to retail dealers in the first 7 months of 1978 totaled 4.4 million tons, 0.2 million tons more than shipments in the same 7 month period a year earlier.

Stocks of bituminous coal and lignite on July 31, 1978 were 120.3 million tons, down 1.5 million tons from the stock level at the end of June. Electric utility stockpiles\* declined slightly in July, down from 107.5 million tons at the end of June to 107.4 million tons at the end of July. Utility stockpiles at the end of July 1978 were well below those of a year earlier. Utility stocks on July 31, 1977 were 121.1 million tons. Coal stocks held by general industry increased from 5.5 million tons at the end of June to 6.0 million at the end of July. Coal stocks at retail dealer yards on July 31 remained unchanged from the 0.3 million-ton level on June 30.

United States exports of coal declined from 5.4 million tons in June to 3.5 million tons in July. Exports for the first 7 months of 1978 were 17.7 million tons, 13.4 million tons below the amount exported during the same period a year earlier and 15.9 million tons below exports for the January through July period of 1976. U.S. imports of coal increased from 0.7 million tons during the first 7 months of 1977 to 1.9 million tons for the same period in 1978.

\*Does not include anthracite or coke consumption/stocks.

# Bituminous and Lignite

		Domestic Consumption*	Production*	Exports	Imports	Stocks**
Thousands of short tons						
<b>1972</b>	<b>TOTAL</b>	<b>516,776</b>	<b>595,386</b>	<b>55,997</b>	<b>47</b>	<b>115,372</b>
<b>1973</b>	<b>TOTAL</b>	<b>556,022</b>	<b>591,738</b>	<b>52,870</b>	<b>127</b>	<b>103,022</b>
<b>1974</b>	<b>TOTAL</b>	<b>552,709</b>	<b>603,406</b>	<b>59,926</b>	<b>2,080</b>	<b>95,528</b>
<b>1975</b>	<b>TOTAL</b>	<b>556,301</b>	<b>648,438</b>	<b>65,669</b>	<b>940</b>	<b>127,115</b>
<b>1976</b>	January	52,932	52,568	3,697	103	119,220
	February	46,832	53,773	3,050	114	119,004
	March	48,624	60,918	3,979	40	123,471
	April	46,415	59,145	5,780	132	128,393
	May	46,681	57,934	5,667	90	136,013
	June	48,445	59,680	6,569	192	140,144
	July	51,717	44,318	4,880	39	129,661
	August	52,082	53,622	4,223	90	123,853
	September	47,689	60,634	5,614	65	129,878
	October	49,312	58,899	5,871	94	133,624
	November	51,877	58,780	5,451	149	135,019
	December	56,144	58,414	4,625	95	133,555
	<b>TOTAL</b>	<b>598,750</b>	<b>678,685</b>	<b>59,406</b>	<b>1,203</b>	
<b>1977</b>	January	56,561	44,525	2,143	123	118,116
	February	50,033	49,045	3,079	75	114,363
	March	50,278	66,445	3,390	31	122,593
	April	46,290	60,280	5,637	170	129,878
	May	49,120	62,220	5,673	94	137,673
	June	51,690	62,810	6,019	92	145,914
	July	56,141	49,425	5,158	112	137,463
	August	54,758	57,560	4,279	100	136,832
	September	50,622	69,200	5,037	175	144,953
	October	50,191	67,420	4,871	274	158,164
	November	50,245	68,715	4,491	326	173,063
	December	53,687	30,930	3,910	231	152,317
	<b>TOTAL</b>	<b>619,616</b>	<b>688,575</b>	<b>53,687</b>	<b>1,803</b>	
<b>1978</b>	January	54,405	23,115	870	139	118,121
	February	46,014	23,520	555	159	93,130
	March	43,810	38,765	325	231	83,942
	April	45,504	59,530	2,594	417	96,462
	May	48,753	68,760	4,411	323	110,886
	June	R51,827	65,565	5,398	291	121,800
	July	55,417	52,120	3,531	313	120,297
	August	NA	62,150	NA	NA	NA
	<b>TOTAL</b> (Year to date)	<b>345,730</b>	<b>393,525</b>	<b>17,684</b>	<b>1,873</b>	

\*See Explanatory Note 7.

\*\*Total stocks held by utilities, industrial consumers, and retail dealers at end of year or month.

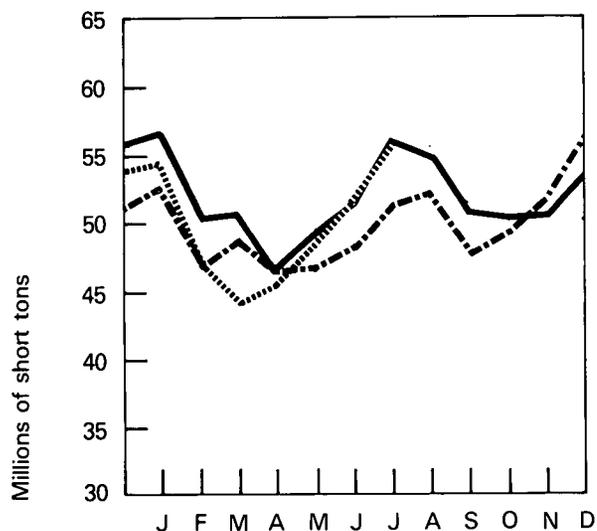
R=Revised data.

NA=Not available.

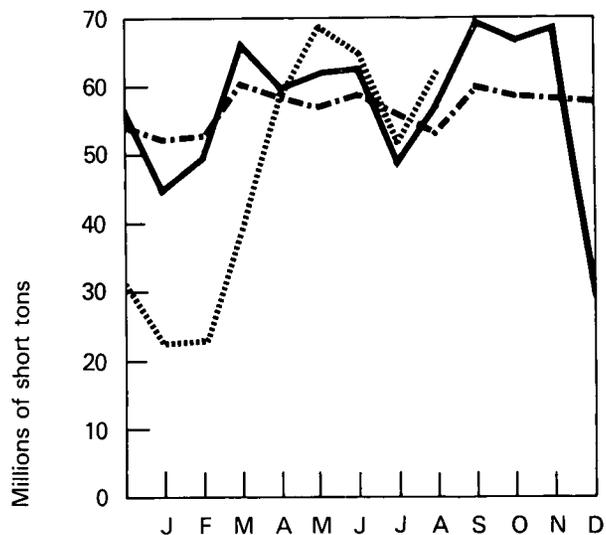
Source: Exports and Imports—U.S. Department of Commerce, Bureau of the Census; remaining data—Bureau of Mines *Mineral Industry Surveys*, "Weekly Coal Report" through September 1977; and EIA *Energy Data Reports*, "Weekly Coal Report" for October 1977 forward.

# Bituminous and Lignite

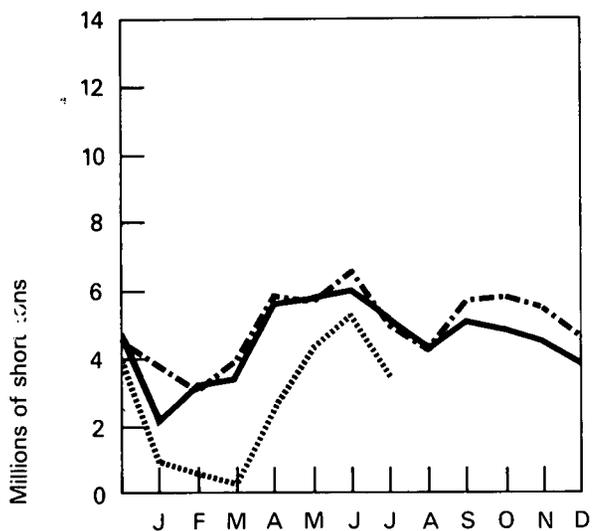
## Domestic Consumption



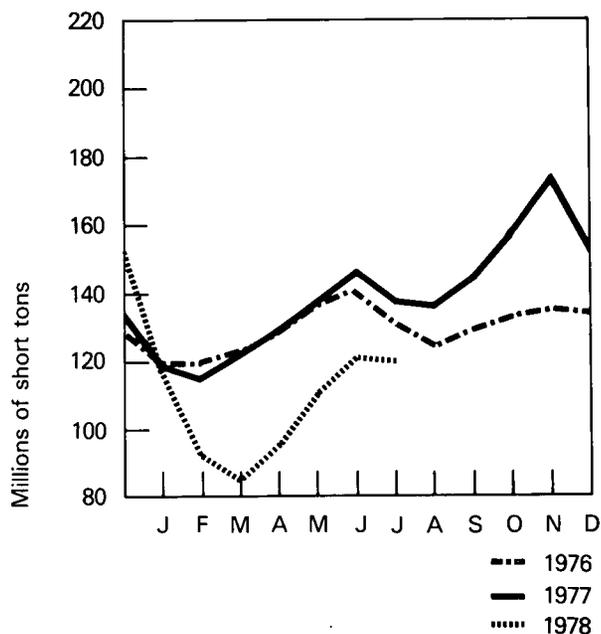
## Production



## Exports



## Stocks

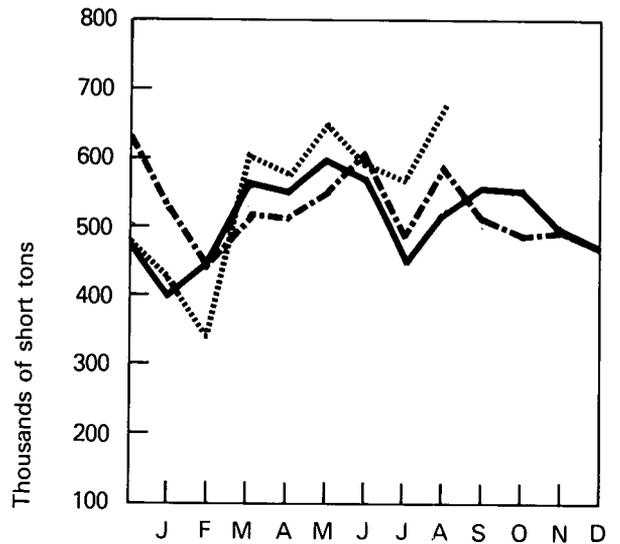


--- 1976  
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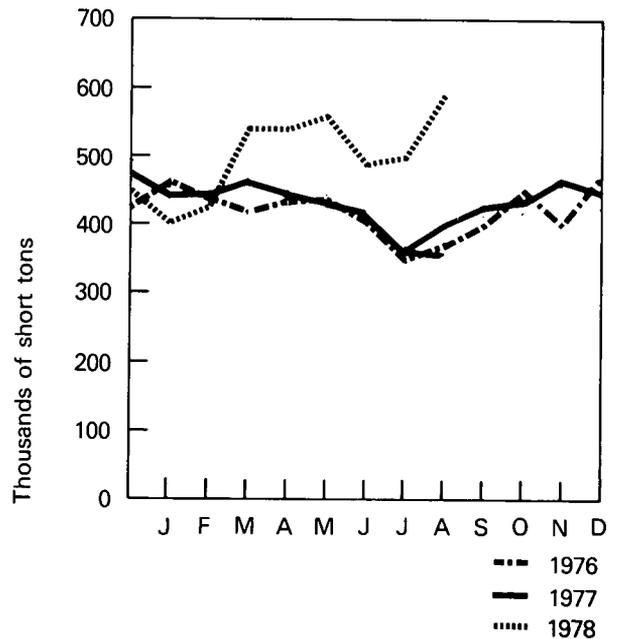
# Anthracite

		Production	Apparent Domestic Consumption
Thousands of short tons			
<b>1972</b>	<b>TOTAL</b>	<b>7,106</b>	<b>5,915</b>
<b>1973</b>	<b>TOTAL</b>	<b>6,830</b>	<b>5,671</b>
<b>1974</b>	<b>TOTAL</b>	<b>6,617</b>	<b>5,448</b>
<b>1975</b>	<b>TOTAL</b>	<b>6,203</b>	<b>5,108</b>
<b>1976</b>	January	525	460
	February	440	430
	March	525	420
	April	520	435
	May	555	440
	June	610	400
	July	490	350
	August	590	375
	September	515	400
	October	490	455
	November	493	400
	December	475	475
	<b>TOTAL</b>	<b>6,228</b>	<b>5,040</b>
<b>1977</b>	January	400	440
	February	450	450
	March	570	470
	April	550	450
	May	600	440
	June	570	420
	July	450	360
	August	525	400
	September	560	430
	October	550	435
	November	500	470
	December	475	450
	<b>TOTAL</b>	<b>6,200</b>	<b>5,215</b>
<b>1978</b>	January	430	400
	February	340	425
	March	610	540
	April	575	540
	May	650	560
	June	595	490
	July	570	500
	August	680	590
	<b>TOTAL</b>	<b>4,450</b>	<b>4,045</b>
	(Year to date)		

Production



Apparent Domestic Consumption



Source: Bureau of Mines *Mineral Industry Surveys*, "Weekly Coal Report" through September 1977; and EIA *Energy Data Reports*, "Weekly Coal Report" for October 1977 forward.

## Electric Utilities

July 1978 production of electricity by utilities is 202.6 billion kilowatt-hours, an increase of 1.8 percent from the July 1977 production level. This represents the first time in U.S. history that production of energy by electric utilities surpassed the 200 billion kilowatt-hour level. While coal-fired and oil-fired production declined 3.1 and 16.7 percent respectively from the July 1977 production level, hydroelectric, nuclear, and gas-fired production increased by 46.2, 14.6, and 4.5 percent respectively above the July 1977 level. Total production during the first 7 months of 1978 is 1.3 trillion kilowatt-hours, 3.0 percent above the level for the same months of 1977. Per Edison Electric Institute, preliminary-estimated production for August 1978 is 205.1 billion kilowatt-hours.

Sales of electricity to ultimate consumers by all electric utilities in the United States in July totaled 177.7 billion kilowatt-hours, an increase of 2.5 percent over July 1977. Sales to residential consumers during July were 61.4 billion kilowatt-hours, an increase of 0.7 percent over sales for the corresponding month in 1977. Commercial sales were 42.6 billion kilowatt-hours, 1.8 percent higher than in July 1977. Sales to industrial consumers totaled 67.4 billion kilowatt-hours in July, an increase of 4.3 percent over July 1977. Other sales during July totaled 6.3 billion kilowatt-hours, or 6.6 percent more than the same month of the previous year.

Electric utility oil consumption during July 1978 was 18.1 percent below the July 1977 consumption level. Total oil consumption for the first 7 months of 1978 was 383.8 million barrels, 0.6 percent above the 1977 level. Coal consumption\* for July 1978 was 44.2 million tons, 1.8 percent below the 1977 rate. The total consumption of coal for the first 7 months of 1978 was 269.5 million tons, 1.8 percent below the 1977 level. During July 1978 consumption by gas-fired utilities reached 361.5 billion cubic feet, 4.3 percent above the 1977 rate.

During July 1978, coal stocks decreased by 0.9 percent below the stockpile level of a month earlier and 11.0 percent below the stockpile level of a year earlier. Oil stocks on August 1, 1978, increased 7.7 percent above the level for the same month of 1977.

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\*Electric utility coal consumption and stocks include bituminous and anthracite coal, lignite and coke.

# Electric Utilities

## Net Electricity Production

		Coal	Oil	Gas	Nuclear	Hydro- electric	Other*	Total
Millions of kilowatt hours								
<b>1971</b>	<b>TOTAL</b>	<b>714,680</b>	<b>218,622</b>	<b>374,027</b>	<b>38,105</b>	<b>266,301</b>	<b>859</b>	<b>1,612,593</b>
<b>1972</b>	<b>TOTAL</b>	<b>772,857</b>	<b>272,550</b>	<b>375,735</b>	<b>54,091</b>	<b>272,612</b>	<b>1,783</b>	<b>1,749,629</b>
<b>1973</b>	<b>TOTAL</b>	<b>848,988</b>	<b>312,940</b>	<b>340,804</b>	<b>83,334</b>	<b>272,081</b>	<b>2,294</b>	<b>1,860,440</b>
<b>1974</b>	<b>TOTAL</b>	<b>829,973</b>	<b>299,363</b>	<b>320,055</b>	<b>113,976</b>	<b>301,032</b>	<b>2,704</b>	<b>1,867,103</b>
<b>1975</b>	<b>TOTAL</b>	<b>852,968</b>	<b>288,908</b>	<b>299,772</b>	<b>172,506</b>	<b>300,047</b>	<b>3,437</b>	<b>1,917,638</b>
<b>1976</b>	January	83,707	32,214	19,895	16,099	26,070	344	178,329
	February	73,532	24,767	19,163	14,377	24,521	323	156,683
	March	76,570	25,420	21,282	13,993	26,563	346	164,174
	April	72,571	23,299	21,867	10,982	24,137	312	153,168
	May	72,512	21,794	25,319	11,929	25,516	300	157,370
	June	76,939	25,103	29,715	15,757	25,563	314	173,391
	July	83,294	26,997	32,032	17,709	26,064	338	186,434
	August	84,222	28,248	31,394	18,363	23,843	336	186,406
	September	75,384	23,608	28,058	17,290	20,369	327	165,036
	October	76,955	24,168	23,918	17,355	21,042	319	163,757
	November	81,702	30,060	21,119	16,134	19,805	293	169,113
	December	87,220	34,130	20,897	21,115	20,220	332	183,914
	<b>TOTAL</b>	<b>944,608</b>	<b>319,808</b>	<b>294,659</b>	<b>191,103</b>	<b>283,713</b>	<b>3,884</b>	<b>2,037,775</b>
<b>1977</b>	January	89,844	43,363	19,953	22,152	20,700	359	196,371
	February	78,752	29,429	19,481	19,601	15,150	322	162,735
	March	77,521	28,343	22,467	20,672	19,801	356	169,160
	April	70,898	25,834	21,297	19,867	18,642	319	156,857
	May	77,071	27,945	24,701	20,599	18,677	341	169,334
	June	83,148	28,947	29,623	21,517	17,226	335	180,796
	July	92,408	34,866	32,715	21,825	16,799	328	198,941
	August	90,764	32,302	33,293	22,750	16,712	317	196,138
	September	82,593	26,348	30,942	19,630	16,455	342	176,310
	October	79,406	23,061	27,359	19,041	17,219	360	166,446
	November	79,495	24,848	22,582	19,458	20,428	347	167,158
	December	83,640	32,652	21,151	23,771	22,787	337	184,338
	<b>TOTAL</b>	<b>985,540</b>	<b>357,938</b>	<b>305,564</b>	<b>250,883</b>	<b>220,596</b>	<b>4,063</b>	<b>2,124,584</b>
<b>1978</b>	January	R85,029	R39,228	22,302	25,833	25,067	357	R197,816
	February	70,692	38,072	R20,362	21,833	22,399	309	R173,667
	March	66,758	R36,840	22,261	22,449	24,662	264	R173,234
	April	70,411	24,915	R21,315	17,580	R25,327	208	R159,756
	May	76,491	R24,329	R25,063	20,416	28,775	187	R175,261
	June	R84,093	R26,065	R30,589	R22,185	R25,245	225	R188,402
	July	89,565	29,030	34,197	25,007	24,558	251	202,608
	<b>TOTAL</b> (Year to date)	<b>543,039</b>	<b>218,479</b>	<b>176,089</b>	<b>155,303</b>	<b>176,033</b>	<b>1,801</b>	<b>1,270,744</b>

\*Includes electricity produced from geothermal power, wood, and waste.

R=Revised data.

NA=Not available.

Source: Federal Power Commission Form 4, "Monthly Powerplant Report" through June 1978; Edison Electric Institute for July 1978 Total and Nuclear Regulatory Commission for July 1978 Nuclear.

# Electric Utilities (Continued)

## Fuel Consumption

		Coal  Thousands of short tons	Oil		Total	Gas  Millions of cubic feet
			Steam*	Gas Turbine/ Internal Combustion**  Thousands of barrels		
<b>1971</b>	<b>TOTAL</b>	<b>327,887</b>	<b>362,186</b>	<b>34,282</b>	<b>396,468</b>	<b>3,975,971</b>
<b>1972</b>	<b>TOTAL</b>	<b>352,392</b>	<b>440,229</b>	<b>53,463</b>	<b>493,692</b>	<b>3,976,770</b>
<b>1973</b>	<b>TOTAL</b>	<b>389,707</b>	<b>513,127</b>	<b>47,020</b>	<b>560,147</b>	<b>3,659,388</b>
<b>1974</b>	<b>TOTAL</b>	<b>392,423</b>	<b>482,524</b>	<b>53,721</b>	<b>536,245</b>	<b>3,443,293</b>
<b>1975</b>	<b>TOTAL</b>	<b>406,030</b>	<b>466,940</b>	<b>39,188</b>	<b>506,128</b>	<b>3,157,584</b>
<b>1976</b>	January	39,986	51,114	4,974	56,088	206,528
	February	34,965	40,452	2,676	43,128	199,441
	March	36,099	41,154	2,800	43,954	222,765
	April	33,805	37,663	2,489	40,152	227,826
	May	33,944	35,651	2,220	37,871	266,632
	June	36,381	40,065	3,574	43,639	313,369
	July	39,841	43,143	4,084	47,227	337,640
	August	40,330	45,627	3,443	49,070	329,737
	September	35,895	38,245	2,526	40,771	295,071
	October	36,783	39,101	3,106	42,207	250,046
	November	38,845	47,346	4,971	52,317	217,362
	December	41,582	53,949	5,564	59,513	214,869
	<b>TOTAL</b>	<b>448,456</b>	<b>513,510</b>	<b>42,427</b>	<b>555,937</b>	<b>3,081,286</b>
<b>1977</b>	January	43,255	66,379	9,518	R75,896	205,074
	February	37,665	47,659	3,150	50,809	200,413
	March	37,218	46,172	2,495	R48,666	231,826
	April	34,051	42,218	2,213	44,431	223,081
	May	37,159	44,779	3,846	48,625	259,800
	June	40,151	46,249	4,303	50,552	310,706
	July	44,977	54,664	7,741	R62,406	346,677
	August	44,172	51,950	4,646	56,596	350,756
	September	40,168	43,297	2,523	45,820	324,614
	October	38,379	38,071	1,900	39,971	284,844
	November	38,722	40,654	2,469	43,123	234,198
	December	41,312	52,780	4,067	R56,848	219,984
	<b>TOTAL</b>	<b>477,229</b>	<b>574,872</b>	<b>48,871</b>	<b>623,743</b>	<b>3,191,973</b>
<b>1978</b>	January	R42,715	61,263	R8,245	R69,508	R229,083
	February	35,884	59,630	R7,696	R67,326	R211,097
	March	34,066	58,770	5,466	64,236	R232,083
	April	34,655	40,923	R2,153	R43,076	R222,871
	May	37,224	R40,289	R2,291	R42,580	R260,565
	June	R40,822	R42,445	R3,573	R46,018	R321,062
	July	44,152	47,548	3,543	51,091	361,518
	<b>TOTAL</b> (7 months)	<b>269,518</b>	<b>350,868</b>	<b>32,967</b>	<b>383,835</b>	<b>1,838,279</b>

\*Primarily residual fuel oil.

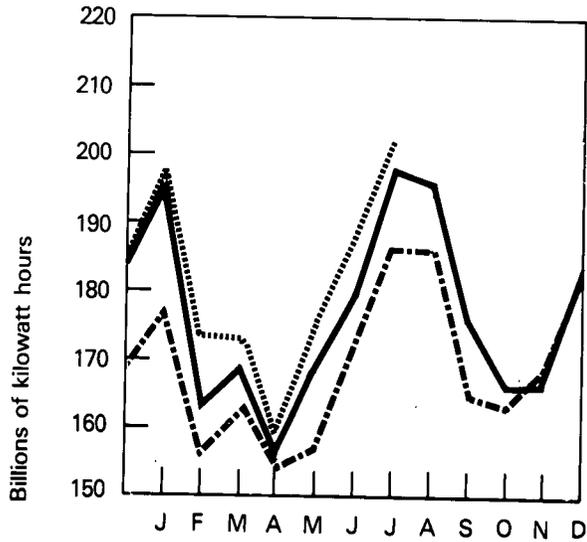
\*\*Primarily middle distillates.

R=Revised.

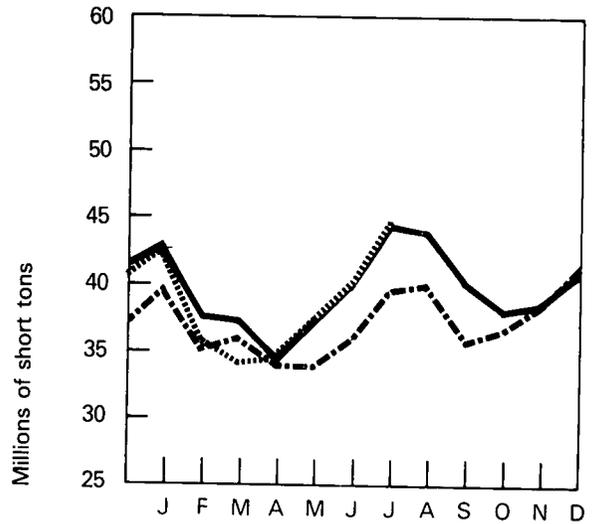
Source: Federal Power Commission Form 4, "Monthly Powerplant Report."

# Electric Utilities

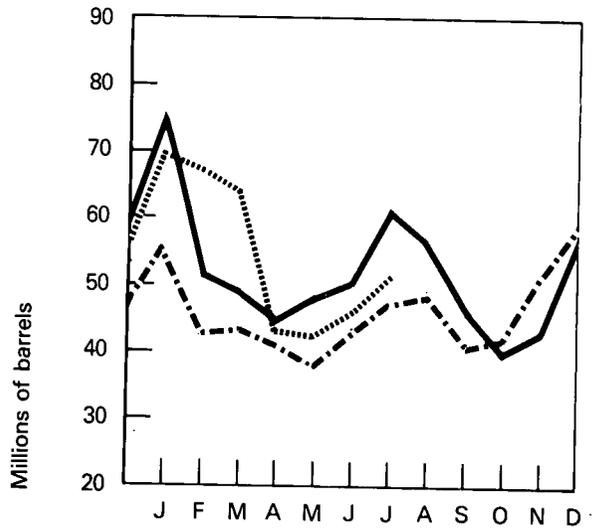
## Total Net Electricity Production



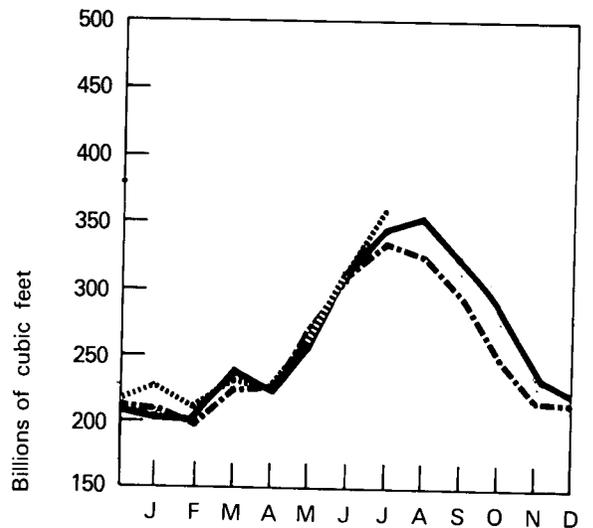
## Coal Consumption



## Oil Consumption



## Gas Consumption



--- 1976      — 1977      ..... 1978

# Electric Utilities (Continued)

## Stocks at End of Month

	Coal	Oil			
		Steam*	Gas Turbine/ Internal Combustion**	Total	
			Thousands of barrels		
	Thousands of short tons				
<b>1971</b>	<b>***78,069</b>	<b>***46,451</b>	<b>***3,194</b>	<b>***49,645</b>	
<b>1972</b>	<b>***100,009</b>	<b>***52,575</b>	<b>***5,079</b>	<b>***57,654</b>	
<b>1973</b>	<b>***87,279</b>	<b>***79,121</b>	<b>***10,095</b>	<b>***89,216</b>	
<b>1974</b>	<b>***83,542</b>	<b>***97,201</b>	<b>***15,715</b>	<b>***112,916</b>	
<b>1975</b>	<b>***110,750</b>	<b>***108,358</b>	<b>***16,886</b>	<b>***125,244</b>	
<b>1976</b>					
	January	105,518	102,023	15,922	117,945
	February	104,874	102,147	16,706	118,853
	March	108,450	104,082	16,467	120,550
	April	112,862	103,757	16,642	120,399
	May	119,611	109,142	16,962	126,105
	June	123,048	109,660	16,621	126,281
	July	115,204	110,829	15,862	126,691
	August	110,752	109,823	16,007	125,830
	September	115,399	112,965	17,059	130,024
	October	118,591	114,437	16,954	131,391
	November	119,323	111,137	15,517	126,655
	December	117,493	106,744	14,980	121,724
<b>1977</b>					
	January	106,183	90,104	12,740	102,844
	February	103,307	95,934	14,098	110,032
	March	109,620	98,148	15,479	113,627
	April	115,915	101,801	15,818	117,619
	May	122,834	104,094	15,841	119,935
	June	128,820	107,932	15,644	123,576
	July	123,405	113,250	16,028	129,278
	August	123,856	119,599	17,093	136,692
	September	130,379	125,360	17,864	143,224
	October	139,705	128,452	19,128	147,580
	November	149,731	129,701	19,149	148,850
	December	133,288	125,245	19,316	144,561
<b>1978</b>					
	January	R105,321	114,049	R16,238	R130,287
	February	R84,738	R110,144	R17,050	R128,194
	March	77,187	R112,333	R17,251	R129,584
	April	88,137	R116,076	R17,367	R133,443
	May	R100,787	R118,922	R16,964	R135,886
	June	110,913	R120,423	R17,591	R138,014
	July	109,864	121,475	17,727	139,202

\*Primarily residual fuel oil.

\*\*Primarily middle distillates.

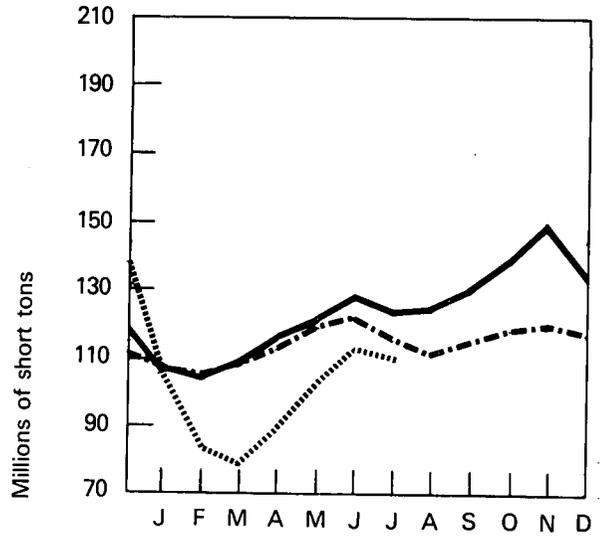
\*\*\*As of December 31.

R=Revised.

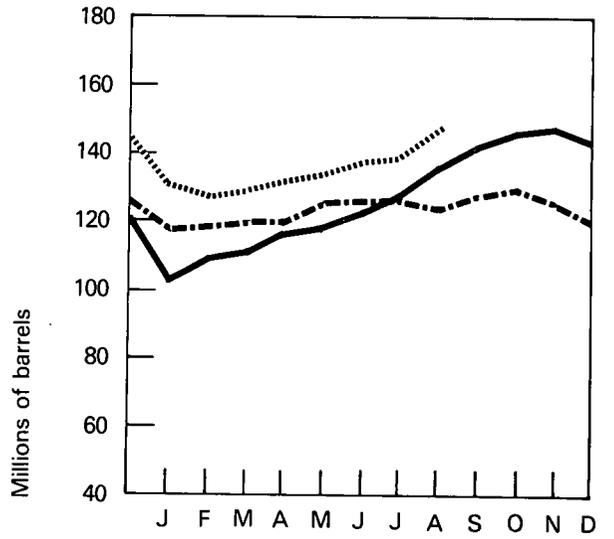
Source: Federal Power Commission Form 4, "Monthly Powerplant Report."

# Electric Utilities

## Coal Stocks



## Oil Stocks



--- 1976  
— 1977  
..... 1978

# Electric Utilities (Continued)

## Electricity Sales\*

		Residential	Commercial	Industrial	Other**	Total
Millions of kilowatt hours						
1972	<b>TOTAL</b>	<b>538,609</b>	<b>359,265</b>	<b>640,978</b>	<b>56,309</b>	<b>1,595,161</b>
1973	<b>TOTAL</b>	<b>579,231</b>	<b>388,266</b>	<b>686,085</b>	<b>59,326</b>	<b>1,712,909</b>
1974	<b>TOTAL</b>	<b>578,184</b>	<b>384,826</b>	<b>684,875</b>	<b>58,039</b>	<b>1,705,924</b>
1975	<b>TOTAL</b>	<b>584,711</b>	<b>401,665</b>	<b>675,270</b>	<b>68,153</b>	<b>1,729,799</b>
1976	January	60,126	34,955	57,463	6,359	158,903
	February	54,264	33,809	58,064	5,855	151,992
	March	47,041	32,520	60,322	5,967	145,850
	April	43,563	31,813	59,967	5,386	140,729
	May	41,044	32,538	61,133	5,473	140,188
	June	44,131	35,325	62,654	5,371	147,481
	July	53,702	39,489	62,388	5,856	161,435
	August	57,349	39,933	63,921	5,829	167,032
	September	53,459	38,817	64,382	6,125	162,783
	October	44,751	34,981	64,028	5,649	149,409
	November	46,682	33,622	63,002	5,802	149,108
	December	56,751	35,838	62,640	5,886	161,115
	<b>TOTAL</b>	<b>602,863</b>	<b>423,640</b>	<b>739,964</b>	<b>69,558</b>	<b>1,836,025</b>
1977	January	65,332	37,598	61,481	6,274	170,685
	February	61,423	36,105	60,439	5,770	163,737
	March	50,859	34,248	63,294	6,158	154,559
	April	44,414	33,180	63,278	5,425	146,297
	May	R41,568	34,291	65,418	5,613	146,890
	June	R48,419	R37,658	R66,064	R5,601	R157,742
	July	R60,969	R41,863	R64,622	R5,931	R173,385
	August	62,440	42,433	66,521	5,837	177,231
	September	57,231	40,845	66,579	5,951	170,606
	October	48,696	36,547	66,442	5,979	157,664
	November	44,962	33,979	64,959	5,866	149,766
	December	55,101	36,047	63,809	6,083	161,040
	<b>TOTAL</b>	<b>R641,414</b>	<b>R444,794</b>	<b>R772,906</b>	<b>R70,488</b>	<b>R1,929,602</b>
1978	January	65,547	37,942	64,300	6,584	174,373
	February	63,936	37,286	60,817	6,252	168,291
	March	58,194	36,201	61,524	6,032	161,951
	April	46,928	33,484	63,129	5,342	148,883
	May	43,637	33,896	66,745	5,636	149,914
	June	50,577	38,624	69,098	5,821	164,120
	July	61,401	42,607	67,397	6,322	177,727
		<b>TOTAL</b> (7 months)	<b>390,220</b>	<b>260,040</b>	<b>453,010</b>	<b>41,989</b>

\*Electricity sales to ultimate consumers.

\*\*Includes street lighting and transportation uses.

R=Revised.

Source: Federal Power Commission Form 5, "Monthly Statement of Electric Operating Revenue and Income."

## Nuclear Power

Electricity generation by nuclear powerplants amounted to 26.0 billion net kilowatt-hours during August, approximately 12.7 percent of total net domestic electricity production for the month. The 67 fully operational domestic reactors, performing at 73 percent of total maximum dependable capacity, resulted in a 4 percentage point increase in nuclear power generation over that of July.

Eighteen non-Communist countries\* now have a total of 174 operating nuclear reactors worldwide. The United States is by far the largest producer of nuclear power, having both more reactors and a larger average capacity than that of any other single country. During August, U.S. reactors accounted for 57 percent of worldwide nuclear generation for the month, followed by 10 percent for Japan, 6 percent for West Germany, and the remainder by 15 other free world countries.

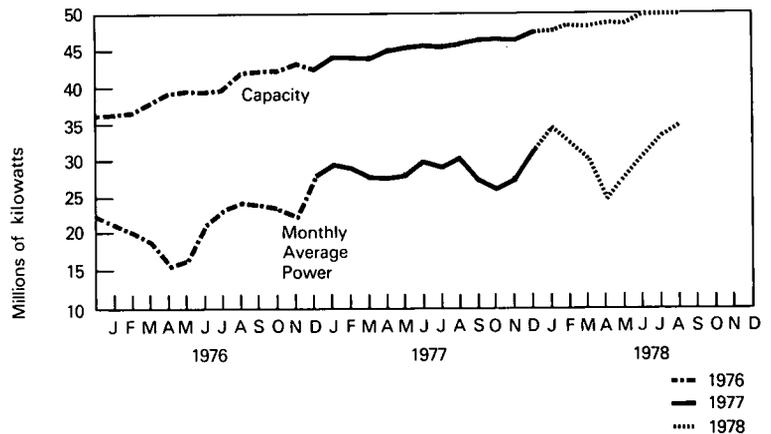
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\*Communist countries with operating reactors include the USSR, Bulgaria, Czechoslovakia, and East Germany.

# U.S. Nuclear Powerplant Operations\*

	Maximum Dependable Capacity	Average Power	Percent of Total Domestic Electricity Generation
Thousands of net kilowatts			
<b>1972 AVERAGE</b>	<b>7,726</b>	<b>6,174</b>	<b>3.1</b>
<b>1973 AVERAGE</b>	<b>13,850</b>	<b>8,760</b>	<b>4.5</b>
<b>1974 AVERAGE</b>	<b>29,921</b>	<b>13,011</b>	<b>6.1</b>
<b>1975 AVERAGE</b>	<b>35,671</b>	<b>19,692</b>	<b>9.0</b>
<b>1976</b>			
January	36,750	21,638	9.0
February	36,879	20,657	9.2
March	38,072	18,808	8.5
April	39,763	15,142	7.2
May	39,902	16,034	7.6
June	39,781	21,885	9.1
July	40,168	23,802	9.5
August	42,067	24,681	9.8
September	42,896	24,014	10.5
October	42,877	23,327	10.6
November	43,673	22,408	9.5
December	42,877	28,380	11.5
<b>AVERAGE</b>	<b>40,642</b>	<b>21,756</b>	<b>9.4</b>
<b>1977</b>			
January	44,316	29,774	11.3
February	44,282	29,168	12.0
March	44,289	27,785	12.2
April	45,131	27,631	12.7
May	45,222	27,687	12.2
June	45,991	29,885	11.9
July	45,984	29,335	11.0
August	45,982	30,578	11.6
September	46,051	27,264	11.1
October	46,088	25,593	11.4
November	46,088	27,025	11.6
December	47,133	31,350	12.9
<b>AVERAGE</b>	<b>45,554</b>	<b>28,640</b>	<b>11.8</b>
<b>1978</b>			
January	47,167	34,722	13.1
February	48,080	32,490	R12.6
March	48,062	30,173	13.0
April	48,926	24,451	11.0
May	48,924	27,441	R11.6
June	49,714	R30,813	R11.8
July	49,719	R33,612	12.3
August	49,815	34,967	12.7
<b>AVERAGE</b> (8 months)	<b>48,805</b>	<b>31,096</b>	<b>12.3</b>

U.S. Nuclear Powerplants



\*Includes all units authorized to generate commercial electricity, including units in startup testing and those owned by the Government.

\*\*Preliminary data.

R=Revised data.

Sources: Capacity data for units in commercial operation or startup testing and Average Power for August 1978 from Nuclear Regulatory Commission. Remaining data from FPC Form 4, "Monthly Powerplant Report."

## Status of Nuclear Powerplants—August 31, 1978

Status	Number of Plants					Design Capacity
	Boiling Water Reactors	High Temperature Gas Reactors	Pressurized Water Reactors	Other**	Total	Net Electrical Megawatts
In operation or startup testing*	26	1	41	2	70	51,000
Construction permit granted	28	0	61	0	89	97,000
Construction permit pending	8	0	26	3	37	42,000
Orders placed for plant	3	0	7	0	10	12,000
Publicly announced	—	—	—	6	6	7,000
<b>TOTAL</b>	<b>64</b>	<b>1</b>	<b>135</b>	<b>12</b>	<b>212</b>	<b>***210,000</b>

\*Does not include the Indian Point 1 reactor which is in indefinite shutdown status.

\*\*Includes two dual-purpose Department of Energy-owned reactors, both operating. Also includes 1 Liquid Metal Fast Breeder Reactor and 9 announced intentions to order for which a reactor type has not been chosen.

\*\*\*Total does not equal sum of components due to independent rounding.

Source: U.S. Department of Energy.

## Nuclear Power Generation by Non-Communist Countries—August 1978

Country	Number of Reactors*	Capacity Thousands of gross electrical kilowatts	Electricity Generation Millions of gross kilowatt hours	Generation of Electricity Percent of Design Capacity Used			
				August		Year**	
				1978	1975	1976	1977
<b>Asia</b>							
Japan	15	8,780	4,556	70	46	57	41
India	3	620	140	30	46	58	51
Pakistan	1	140	0	0	46	41	28
Taiwan	1	640	340	72	—	—	—
South Korea	1	590	245	56	—	—	—
<b>Europe</b>							
Belgium	3	1,740	1,548	84	83	65	78
England***	31	8,130	2,556	46	57	62	55
Finland	1	440	310	95	—	—	92
France	13	5,890	2,407	55	68	59	52
Germany (FR)	10	6,410	2,669	56	72	57	64
Italy	4	1,490	471	43	69	69	61
Netherlands	2	520	375	97	73	84	81
Spain	3	1,120	731	88	77	77	67
Sweden	6	3,850	996	35	44	55	59
Switzerland	3	1,060	421	53	84	85	87
<b>North America</b>							
Canada†	†8	4,790	2,427	76	64	80	76
United States	68	51,400	27,286	71	56	55	64
<b>South America</b>							
Argentina	1	370	271	99	85	86	55
<b>Total or Average</b>	<b>174</b>	<b>97,970</b>	<b>47,450</b>	<b>66</b>	<b>58</b>	<b>59</b>	<b>62</b>

\*Includes fully operational units and those in startup testing which generated electricity during, or prior to, the current month. Capacity and generation figures are shown as gross values, as opposed to net values shown in previous tables of this chapter.

\*\*Averages are computed for those units in operation, including startup units beginning with first month of electricity generation.

\*\*\*August figures for 21 units are based on a 4-week period; figures for remaining units are for 31 days.

†August figures are based on 4-week period.

Source: *Nucleonics Week* magazine.

## U.S. Uranium Enrichment—August 1978

	Domestic Customers	Foreign Customers	Total
Separative work performed (in metric tons of separative work units)	667.132	567.801	1,234.933
Cost (in millions of dollars)	53.987	43.666	97.653
Product quantity (in metric tons of uranium)	154.217	146.568	300.785
Feed requirement (in metric tons of uranium)	864.501	743.921	1,608.422

Source: U.S. Department of Energy.

## Summary of Monthly Fuel Cycle—July 1978

Fuel Cycle Activity	Product	Processed Material <sup>1</sup> MTU except where noted	Percent Utilization of Industry Capacity	Energy Content of Processed Material <sup>2</sup> Billion Btu	Energy Consumed in Fuel Cycle Activity <sup>3</sup> Billion Btu	Cost Contribution to Electric Power <sup>4</sup> Mills per kilowatt hour
Milling	Yellowcake (U <sub>3</sub> O <sub>8</sub> ) Deliveries	647	62	235,000	356	1.27
Conversion	Uranium Hexafluoride (UF <sub>6</sub> ) Deliveries	848	<sup>5</sup> 59	289,000	127	0.16
Enrichment	Enriched UF <sub>6</sub> Deliveries	188 (721 MT-SWU)	( <sup>6</sup> )	385,000	1,713	1.53
Fabrication	Finished Fuel Assemblies Shipped	302	NA	618,000	85	0.47
Powerplant Operation	Electricity Generated	24,895 (million kWhe)	70	265,000	1,289 (million kWhe)	10.93
Spent Fuel	Stored at Reactor Site	26	—	—	—	
	Stored at Non-Reactor Sites	0	—	—	—	71.57

<sup>1</sup> Units of measure are discussed in Explanatory Notes 9 and 10.

<sup>2</sup> Assumes 25,000 MWD/MTU for heat content of enriched uranium and a 6.1 feed to product ratio at the enrichment plant.

<sup>3</sup> Energy requirements for processing are obtained from U.S.A.E.C. Report No. WASH 1248.

<sup>4</sup> Cost contribution is computed from unit prices paid for current month's production and requirement for a model 1000 MWe reactor operating at 65 percent capacity factor. Because of the long lead time required for nuclear fuel processing, the sum of numbers in this column does not necessarily reflect the fuel cost of current electricity production.

<sup>5</sup> Figure for conversion utilization represents material shipped.

<sup>6</sup> ERDA's enrichment plants are presently operating at maximum utilization of available electric power, with the excess production being placed in the "preproduction stockpile" in anticipation of high demand for enriched uranium in the 1980's.

<sup>7</sup> Figure represents current industry estimate for cost of spent fuel shipment, reprocessing, and waste disposition, exclusive of cost credits for recovered uranium and plutonium.

NA=Not available.

Source: DOE.

## Price

### Crude Oil

Due to the initiation of a new data collection system, no refiners' acquisition cost of crude oil is yet available for July.

The average price paid by first purchasers for lower tier crude oil was \$5.46 per barrel in July, up 30 cents from the price a year ago. The price of Alaskan North Slope oil was \$5.41 per barrel in July, an increase of 54 cents above the record low reported in May 1978. The average price paid for all first purchases of domestic crude oil in July was \$8.97 per barrel, up 49 cents from the price 1 year earlier.

### Motor Gasoline

The July 1978 gasoline price data presented in this publication are taken from the revised Department of Energy retail motor gasoline survey. The original form EIA-8, "Retail Motor Fuels Service Station Survey" collected average monthly price and cost information for motor gasoline. The revised form EIA-79, "Monthly Motor Gasoline Service Station Survey" collects posted pump prices for the various grades of motor gasoline, but no longer collects cost information of dealers' purchases of motor gasoline. Dealers are still required to report monthly sales volumes for all gasoline sold, for their full serve, mini serve, and self serve operations.

Preliminary data from the EIA-79 survey indicates that on a national average basis, in July 1978 leaded regular gasoline at full serve pumps sold for an average of 64.6 cents per gallon. The price for unleaded regular gasoline at full serve pumps was 68.8 cents per gallon. Self serve leaded and unleaded regular gasoline prices were 60.6 and 65.6 cents per gallon, respectively.

On a regional basis, average selling prices in July for leaded regular gasoline at full serve pumps ranged from 63.1 cents in Region 6 to 70.1 cents in Region 9. At self serve pumps, leaded regular gasoline prices ranged from 56.9 cents in Region 6 to 64.8 cents in Region 10. The average price for unleaded regular gasoline at full serve pumps ranged from 66.8 cents in Region 6 to 74.1 cents in Region 9. At

self serve pumps, this price ranged from 61.6 cents in Region 6 to 69.3 cents in Region 9.

### Aviation Fuels

The average retail price of kerosene-type aviation fuel remained stable in July at 38.9 cents per gallon. The price has increased 3.1 cents from the price 1 year earlier.

### Heating Oil

The average price of heating oil sold to residential customers remained stable at 48.2 cents per gallon in July. This was a 2.4 cents increase over the price a year ago, and a 9.2 cents increase from May 1976, last month this product was subject to price controls.

### Residual Fuel Oil

The average retail price for all grades of No. 6 residual fuel oil in July was \$12.21 per barrel, an 80 cent decrease from the price 1 year earlier. The average wholesale price for all grades of No.6 residual fuel oil in July was \$10.86 per barrel, a 55 cent decrease from the June price and a 76 cent decrease from the price 1 year earlier.

### Liquefied Petroleum Gases

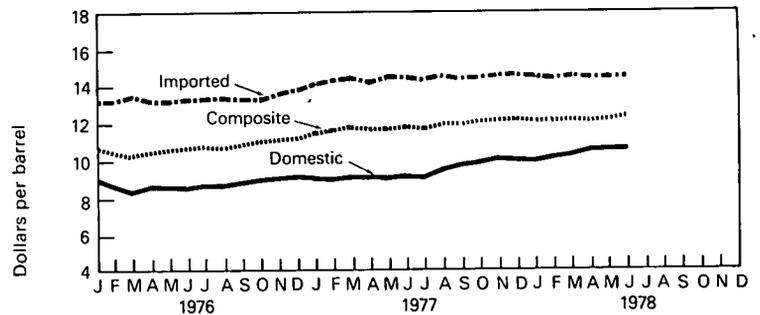
The average wholesale price of butane sold in July was 22.1 cents per gallon. This price is 4.1 cents lower than the price 1 year earlier. The average price of propane dropped 0.3 cent in July to 23 cents per gallon, which is 1.9 cents lower than the price 1 year earlier.

# Crude Oil

## Refiner Acquisition Cost\*

		Domestic	Imported	Composite
Dollars per barrel				
<b>1974</b>	<b>AVERAGE</b>	<b>7.18</b>	<b>12.52</b>	<b>9.07</b>
<b>1975</b>	<b>AVERAGE</b>	<b>8.39</b>	<b>13.93</b>	<b>10.38</b>
<b>1976</b>	January	9.14	13.27	10.76
	February	8.67	13.26	10.54
	March	8.48	13.51	10.44
	April	8.66	13.39	10.63
	May	8.62	13.41	10.66
	June	8.60	13.48	10.88
	July	8.72	13.51	10.97
	August	8.65	13.58	10.78
	September	8.95	13.47	11.08
	October	9.13	13.49	11.20
	November	9.23	13.58	11.26
	December	9.25	13.71	11.32
		<b>AVERAGE</b>	<b>8.84</b>	<b>13.48</b>
<b>1977</b>	January	9.23	14.11	11.64
	February	9.24	14.50	11.80
	March	9.32	14.54	11.88
	April	9.21	14.36	11.75
	May	9.21	14.62	11.87
	June	9.34	14.63	11.98
	July	9.32	14.44	11.90
	August	9.54	14.68	12.01
	September	9.75	14.50	12.01
	October	9.95	14.56	12.12
	November	10.17	14.61	12.18
	December	10.15	14.76	12.27
		<b>AVERAGE</b>	<b>9.55</b>	<b>14.53</b>
<b>1978</b>	January	10.14	14.52	12.13
	February	10.25	14.41	12.19
	March	10.46	14.57	12.23
	April	10.55	14.40	12.20
	May	10.60	14.51	12.35
	June	R10.69	14.54	12.48

Crude Oil Refiner Acquisition Cost



\*See Explanatory Note 13.

\*\*Preliminary data.

R=Revised data.

Sources: 1974 through January 1976—Form FEO-96 "Monthly Cost Allocation Report;" February 1976 forward—FEA Form P110-M-1 "Refiners' Monthly Cost Allocation Report." Data provided by the Economic Regulatory Administration.

# Crude Oil (Continued)

## Domestic Prices at the Wellhead<sup>1</sup>

			Domestic Average	Lower Tier <sup>2</sup>	Upper Tier <sup>2</sup>	Actual Stripper <sup>3</sup>	Actual Domestic Average <sup>4</sup>	Imputed Domestic Average <sup>4</sup>					
			Old	New	Dollars per barrel								
					<b>1977</b>	January	5.17	11.44	13.27	8.50	8.28		
						February	5.18	11.39	13.32	8.57	8.33		
<b>1974</b>	<b>AVERAGE</b>	<b>5.03</b>	<b>10.13</b>	<b>6.87</b>		March	5.15	11.03	13.31	8.45	8.19		
						April	5.15	10.97	13.28	8.40	8.14		
<b>1975</b>	<b>AVERAGE</b>	<b>5.03</b>	<b>12.03</b>	<b>7.67</b>		May	5.18	10.98	13.26	8.49	8.23		
						June	5.16	10.92	13.28	8.44	8.17		
<b>1976</b>	January	5.02	12.99	8.63									
			Lower Tier <sup>2</sup>	Upper Tier <sup>2</sup>	Domestic Average	Lower Tier <sup>2</sup>	Upper Tier <sup>2</sup>	Actual Stripper <sup>3</sup>	Alaskan North Slope <sup>5</sup>	Naval Petroleum Reserves <sup>6</sup>	Actual Domestic Average <sup>4</sup>	Imputed Domestic Average <sup>4</sup>	
	February	5.05	11.47	7.87		July	5.16	11.00	13.31	6.84	12.21	8.48	8.21
	March	5.07	11.39	7.79		August	5.18	10.93	13.95	6.91	12.29	8.62	8.25
	April	5.07	11.52	7.86		September	5.20	11.20	14.01	6.98	12.33	8.63	8.26
	May	5.13	11.55	7.89		October	5.23	11.42	14.01	6.66	12.38	8.72	8.36
	June	5.15	11.60	7.99		November	5.24	11.63	13.98	5.73	12.40	8.72	8.35
	July	5.19	11.59	8.04		December	5.25	11.76	13.98	5.73	12.36	8.77	8.40
	August	5.18	11.62	8.03		<b>AVERAGE</b>	<b>5.19</b>	<b>11.22</b>	<b>13.59</b>	<b>6.35</b>	<b>12.34</b>	<b>8.57</b>	
					<b>1978</b>	January	5.28	11.78	13.89	5.30	12.38	8.68	8.34
						February	5.29	11.81	13.90	5.68	12.46	8.84	8.48
						March	5.34	11.87	13.97	5.00	12.60	8.80	8.41
						April	5.35	11.94	13.95	5.15	12.67	8.82	8.44
						May	5.38	11.98	13.93	4.87	12.70	8.81	8.43
<b>1976</b>	September	5.17	11.65	13.21	8.39	8.19							
	October	5.15	11.62	13.35	8.46	8.23							
	November	5.17	11.62	13.31	8.62	8.40							
	December	5.17	11.64	13.30	8.62	8.40							
	<b>AVERAGE</b>	<b>5.13</b>	<b>11.71</b>	<b>12.16</b>	<b>8.19</b>								
						June	R5.46	12.08	13.95	R5.63	13.08	R9.05	8.68
						July <sup>7</sup>	5.46	12.16	13.96	5.41	13.07	8.97	8.62

<sup>1</sup> See Explanatory Note 14.

<sup>2</sup> See Definitions.

<sup>3</sup> Stripper oil was exempt from price controls beginning September 1, 1976. From February through August 1976 stripper oil was subject to upper tier price ceilings.

<sup>4</sup> The actual domestic average price represents the average price at which all domestic crude oil is purchased. The imputed domestic average price is the average price used to establish ceiling prices for domestic crude oil in accordance with the provisions of the Energy Conservation and Production Act. It is calculated as the weighted average of lower tier, upper tier, and an imputed stripper crude oil price. The imputed stripper crude oil price is equal to \$11.63 per barrel plus the difference between the composite price of crude oil in August 1976 (excluding stripper oil) and the composite price of crude oil in the month of measurement (excluding stripper oil).

<sup>5</sup> Alaskan North Slope (ANS) crude oil prices are treated as Upper Tier for determining the applicable wellhead ceiling prices. ANS is included in both the Actual Domestic Average and the Imputed Domestic Average price determinations.

<sup>6</sup> The Naval Petroleum Reserves (NPR) are exempt from pricing regulations but have been reported here as Upper Tier prior to July 1977. NPR is included in the Actual Domestic Average price determinations, but not in the Imputed Domestic Average.

<sup>7</sup> Preliminary data based on early reports.

R= Revised data.

Sources: 1974 through January 1976—Form FEA-90 "Crude Petroleum Production Monthly Report;" February 1976 forward—FEA Form P124-M-O "Domestic Crude Oil Purchasers Report." Data provided by the Economic Regulatory Administration.

# Crude Oil (Continued)

## Percentages of Domestic Production Sold at the Wellhead

		Old Oil	New Oil	Released	Stripper		
1975	January*	58	19	10	12		
	February*	61	17	9	12		
	March	60	18	10	12		
	April	61	17	9	12		
	May	62	17	8	13		
	June	63	16	8	13		
	July	62	16	8	14		
	August	63	16	7	14		
	September*	63	15	7	14		
	October	63	16	7	14		
	November	64	15	7	14		
	December	63	16	7	14		
	<b>AVERAGE</b>	<b>62</b>	<b>16</b>	<b>8</b>	<b>13</b>		
1976	January	54	21	10	15		
		<b>Lower Tier</b>		<b>Upper Tier</b>			
	February	56	30	—	14		
	March	57	29	—	14		
	April	57	29	—	14		
	May	57	29	—	14		
	June	56	29	—	15		
	July	56	30	—	14		
	August	56	30	—	14		
		<b>Lower Tier</b>	<b>Upper Tier</b>		<b>Stripper</b>		
	September	53.4	33.7		12.9		
	October	52.4	34.7		12.9		
	November	49.9	36.6		13.4		
December	50.1	36.4		13.6			
<b>AVERAGE</b>	<b>54.4</b>	<b>31.5</b>		<b>14.1</b>			
1977	January	50.6	36.7		12.7		
	February	49.5	37.2		13.3		
	March	49.2	37.2		13.6		
	April	49.5	36.9		13.6		
	May	48.4	37.6		14.0		
	June	48.8	37.0		14.2		
		<b>Lower Tier</b>	<b>Upper Tier</b>		<b>Stripper</b>	<b>Alaskan North Slope**</b>	<b>Naval Petroleum Reserve**</b>
	July	46.75	36.59		13.30	2.58	0.75
	August	43.31	36.65		13.32	5.79	0.91
	September	42.78	34.07		13.14	9.06	0.91
	October	42.23	34.58		12.92	9.09	1.15
	November	41.41	34.67		13.00	9.84	1.05
	December	40.42	34.61		13.00	10.92	1.03
<b>AVERAGE</b>	<b>45.92</b>	<b>36.11</b>		<b>13.32</b>	<b>4.14</b>	<b>0.51</b>	
1978	January	41.73	34.19		12.69	10.17	1.19
	February	40.78	34.35		13.68	9.94	1.23
	March	39.24	34.06		13.98	11.76	0.92
	April	37.94	34.04		13.72	13.26	1.02
	May	38.16	34.03		13.76	13.05	.97
	June	R36.79	R35.01		R13.89	R13.45	R.84
	July***	37.51	34.31		13.50	13.70	.96

\*Totals do not add to 100 due to rounding.

\*\*See footnotes 5 and 6 of previous table.

\*\*\*Preliminary.

R=Revised data.

Sources: January 1975 through January 1976—Form FEA-90 "Crude Petroleum Production Monthly Report;" February 1976 through August 1976—FEA Form P124-M-0 "Domestic Crude Oil Purchasers Report" for Lower Tier percentages and EIA estimates for Upper Tier percentages; September 1976 forward—FEA Form P124-M-0 "Domestic Crude Oil Purchasers Report." Data provided by the Economic Regulatory Administration.

# Crude Oil (Continued)

## Estimated FOB Cost of Imports from Selected Countries\*

		Algeria	Canada	Indonesia	Iran	Libya	Nigeria	Saudi Arabia	U.A. Emirates	Venezuela
Dollars per barrel										
<b>1976</b>	January	12.96	NA	12.77	11.61	12.34	12.85	11.67	11.91	11.15
	February	12.89	NA	12.77	11.48	12.34	12.85	11.64	11.93	11.61
	March	12.93	NA	12.78	11.45	12.34	12.94	11.71	11.91	11.26
	April	12.98	NA	12.74	11.58	12.39	12.95	11.72	11.94	11.38
	May	13.01	NA	12.76	11.58	12.45	12.97	11.61	11.85	11.10
	June	13.02	NA	12.74	11.62	12.40	12.97	11.64	11.92	11.03
	July	13.06	NA	12.79	11.64	12.64	13.11	11.58	11.89	10.87
	August	13.06	NA	12.75	11.61	12.52	13.08	11.58	11.92	11.19
	September	13.12	NA	12.73	11.66	12.66	13.06	11.55	11.97	11.53
	October	13.09	NA	12.79	11.63	12.70	13.25	11.65	11.92	11.41
	November	13.12	NA	12.71	11.62	12.74	13.25	11.62	11.96	11.58
	December	13.21	NA	12.82	11.78	12.83	13.36	11.65	12.16	11.77
<b>1977</b>	January	14.03	NA	13.41	12.03	13.64	14.11	11.92	12.53	12.91
	February	14.31	NA	13.43	12.36	13.89	14.24	12.04	12.33	13.30
	March	14.29	NA	13.58	12.79	13.87	14.32	12.24	12.51	12.98
	April	14.34	NA	13.55	12.79	13.98	14.51	12.23	12.53	12.62
	May	14.31	NA	13.57	12.78	13.93	14.56	12.23	12.56	12.60
	June	14.35	NA	13.55	12.68	13.94	14.55	12.21	12.44	12.53
	July	14.43	NA	13.61	12.78	13.99	14.52	12.40	12.70	12.48
	August	14.48	NA	13.63	12.80	13.95	14.54	12.56	13.15	12.37
	September	14.43	NA	13.64	12.73	13.99	14.56	12.72	13.20	12.55
	October	14.43	NA	13.65	12.79	13.93	14.48	12.70	13.22	12.72
	November	14.37	NA	13.65	12.75	13.88	14.53	12.73	13.33	12.71
	December	14.44	NA	13.61	12.71	13.85	14.45	12.77	13.27	12.56
<b>1978</b>	January	14.29	NA	13.67	12.62	13.77	14.18	12.70	13.23	12.73
	February	14.21	NA	13.62	12.68	13.91	14.18	12.78	13.18	12.61
	March	14.19	NA	13.62	12.68	13.75	14.13	12.80	13.20	12.86
	April	14.09	NA	13.61	12.68	13.62	13.91	12.74	13.23	12.54
	May	13.99	NA	13.51	12.65	13.59	13.90	12.71	13.05	12.13
	June	14.06	NA	13.63	12.58	13.59	13.90	12.67	13.28	12.32
	July	14.06	NA	13.63	12.70	13.67	13.89	12.65	13.26	12.66

NA= Not available.

\*The FOB cost excludes all costs related to insurance and transportation. See Explanatory Note 17.

Source: FEA Form F701-M-0 "Transfer Pricing Report." Data provided by the Economic Regulatory Administration.

# Crude Oil (Continued)

## Estimated Landed Cost of Imports From Selected Countries\*

		Algeria	Canada	Indonesia	Iran	Libya	Nigeria	Saudi Arabia	U.A. Emirates	Venezuela
		Dollars per barrel								
<b>1975</b>	<b>AVERAGE</b>	<b>12.72</b>	<b>12.72</b>	<b>13.79</b>	<b>12.21</b>	<b>12.35</b>	<b>12.62</b>	<b>12.30</b>	<b>12.87</b>	<b>11.65</b>
<b>1976</b>	January	13.56	12.95	13.89	13.01	13.52	13.61	13.18	13.50	11.60
	February	13.57	13.24	13.94	12.87	13.45	13.52	13.21	13.36	12.09
	March	13.83	13.30	13.94	12.77	13.36	13.62	13.18	13.37	11.71
	April	13.73	13.61	13.78	12.91	13.38	13.60	13.11	13.18	11.95
	May	13.47	13.62	13.84	12.82	13.59	13.62	13.05	13.39	11.61
	June	13.75	14.19	13.84	13.00	13.38	13.78	13.14	13.09	11.55
	July	13.77	13.79	13.80	12.76	13.53	13.81	13.02	13.45	11.44
	August	13.91	13.78	13.78	13.09	13.51	13.87	13.03	13.23	11.77
	September	14.03	13.70	13.80	12.78	13.72	13.82	12.87	13.44	11.98
	October	13.81	13.71	13.84	12.73	13.83	13.99	12.87	13.22	11.84
	November	13.84	13.59	13.77	12.58	13.73	13.95	13.01	13.18	12.01
	December	14.14	13.52	13.75	12.69	13.79	14.11	13.02	13.29	12.19
	<b>AVERAGE</b>	<b>13.81</b>	<b>13.57</b>	<b>13.82</b>	<b>12.82</b>	<b>13.58</b>	<b>13.80</b>	<b>13.04</b>	<b>13.30</b>	<b>11.80</b>
<b>1977</b>	January	14.80	13.92	14.42	13.16	14.64	14.97	13.22	13.56	13.29
	February	15.18	13.74	14.57	13.56	15.12	15.12	13.32	13.46	13.76
	March	15.08	14.34	14.64	13.94	14.88	15.13	13.50	13.80	13.41
	April	15.21	14.02	14.70	13.95	15.12	15.37	13.41	13.78	13.19
	May	15.20	14.94	14.59	13.94	14.91	15.40	13.49	13.85	13.10
	June	15.34	14.49	14.63	13.81	14.92	15.37	13.39	13.72	13.06
	July	15.29	13.91	14.75	13.84	14.88	15.39	13.64	14.20	13.02
	August	15.24	14.24	14.65	13.99	14.70	15.25	13.72	14.36	12.82
	September	15.29	14.14	14.62	13.77	14.99	15.34	14.01	14.41	13.08
	October	15.41	14.00	14.67	13.83	14.81	15.31	13.85	14.56	13.16
	November	15.05	14.52	14.73	13.88	14.73	15.23	13.94	14.19	13.11
	December	15.25	14.27	14.58	13.95	14.81	15.21	13.99	14.48	12.99
<b>1978</b>	January	15.01	14.37	14.60	13.91	14.63	14.88	13.93	14.40	13.00
	February	14.91	14.31	14.53	13.75	14.85	14.90	13.96	14.07	12.93
	March	14.74	13.56	14.56	14.06	14.62	14.89	14.07	14.44	13.22
	April	14.91	13.50	14.61	13.90	14.43	14.63	13.85	14.42	12.89
	May	14.70	14.39	14.50	13.94	14.56	14.72	13.86	14.20	12.49
	June	14.80	15.07	14.58	13.92	14.45	14.61	13.86	14.48	12.72
	July	14.83	14.64	14.73	13.93	14.65	14.64	13.81	14.29	12.41

\*See Explanatory Note 16.

R=Revised data.

Source: FEA Form F701-M-O "Transfer Pricing Report." Data provided by the Economic Regulatory Administration.

## Crude Oil (Continued)

		Entitlement Price* (Dollars)	National Old Oil (or Domestic Crude Oil) Supply Ratio*	Crude Oil Entitlement Benefit* (Dollars)
<b>1976</b>	January	8.09	.309	2.50
	February	7.85	.352	2.76
	March	7.89	.358	2.82
	April	7.85	.356	2.79
	May	7.82	.356	2.78
	June	7.91	.328	2.59
	July	7.80	.314	2.45
	August	8.02	.319	2.56
	September	7.80	.296	2.31
	October	7.84	.293	2.30
	November	7.90	.273	2.16
	December	7.97	.263	2.10
<b>1977</b>	January	8.30	.266	2.21
	February	8.53	.267	2.28
	March	8.71	.273	2.38
	April	8.69	.285	2.48
	May	8.77	.280	2.46
	June	8.65	.273	2.36
	July	8.68	.258	2.24
	August	8.75	.266	2.33
	September	8.75	.250	2.19
	October	8.78	.250	2.20
	November	8.61	.239	2.06
	December	8.65	.233	2.02
<b>1978</b>	January	8.61	.240	2.07
	February	8.48	.230	1.95
	March	8.47	.225	1.91
	April	8.35	.218	1.82
	May	8.26	.197	1.63
	June	8.19	.191	1.56
	July	8.16	.184	1.50

\*See Definitions.

Source: FEA-P102-M-1 "Domestic Crude Oil Entitlements Program Refiners Monthly Report." Data provided by the Economic Regulatory Administration.

# Unrecouped Costs for Refined Products for 30 Largest Refiners<sup>1</sup>

		Distillate <sup>2</sup>	Motor Gasoline	Aviation Jet Fuel <sup>3</sup>	Other Products	Total
Millions of dollars						
<b>1975</b>	January	254	431	—	672	1,357
	February	300	418	—	790	1,508
	March	282	452	—	966	1,700
	April	302	485	—	807	1,594
	May	292	370	—	771	1,433
	June	284	266	—	785	1,334
	July	233	219	—	624	1,075
	August	280	344	—	583	1,208
	September	347	335	—	661	1,342
	October	338	245	—	673	1,255
	November	426	275	—	796	1,497
	December	446	211	—	826	1,483
<b>1976</b>	January	336	242	131	515	1,224
	February	279	336	145	456	1,216
	March	263	316	163	456	1,198
	April	237	398	180	524	1,339
	May	264	632	161	446	1,503
	June	—	628	135	349	1,112
	July	—	587	129	384	1,100
	August	—	679	125	352	1,156
	September	—	619	134	340	1,093
	October	—	733	151	372	1,256
	November	—	796	168	368	1,332
	December	—	723	139	317	1,179
<b>1977</b>	January	≈	901	166	325	1,392
	February	—	1,038	187	303	1,528
	March	—	956	180	287	1,423
	April	—	1,029	194	343	1,566
	May	—	967	224	351	1,542
	June	—	957	234	344	1,535
	July	—	869	210	391	1,470
	August	—	764	279	455	1,498
	September	—	784	186	500	1,470
	October	—	879	248	511	1,638
	November	—	904	218	538	1,660
	December	—	818	185	470	1,473
<b>1978</b>	January		1,055	191	420	1,666
	February		1,265	198	435	1,898
	March		1,065	175	378	1,618
	April		1,013	170	400	1,583
	May		849	186	500	1,535
	June		R718	180	R562	R1,460

R=Revised data.

<sup>1</sup>Beginning with February 1977, data for only 29 refiners are included in this table due to the merger between Skelly Oil Company and Getty Oil Company.

<sup>2</sup>Includes No. 2 heating oil and No. 2 diesel fuel only. After May 1976, reporting of the distillate bank is no longer required due to decontrol of middle distillates.

<sup>3</sup>Prior to January 1976 refiners were not required to maintain separate banks for aviation jet fuel.

<sup>4</sup>Preliminary.

Source: January 1975 through January 1976—Form FEO-96 "Monthly Cost Allocation Report;" February 1976 forward—FEA Form P110-M-1 "Refiners' Monthly Cost Allocation Report." Data provided by the Economic Regulatory Administration.

# Motor Gasoline

## Leaded Regular Gasoline—Full Serve

## Leaded Regular Gasoline—Self Serve

		Average Retail Dealer Selling Price	Average Retail Dealer Margin	Average Retail Dealer Selling Price	Average Retail Dealer Margin
		Cents per gallon, including tax		Cents per gallon, including tax	
<b>1975</b>	January	52.4	9.0	NA	NA
	February	52.5	9.0	NA	NA
	March	52.6	8.8	NA	NA
	April	53.5	8.6	NA	NA
	May	54.3	8.3	NA	NA
	June	55.6	8.1	NA	NA
	July	58.7	8.4	NA	NA
	August	59.2	8.4	NA	NA
	September	59.3	8.2	NA	NA
	October	58.9	8.2	NA	NA
	November	58.4	8.2	55.4	5.5
	December	58.0	8.1	54.9	5.3
	<b>AVERAGE</b>	<b>56.2</b>	<b>8.4</b>	<b>55.1</b>	<b>5.4</b>
<b>1976</b>	January	57.7	8.1	54.7	5.4
	February	57.1	8.3	53.8	5.4
	March	56.6	8.3	53.2	5.3
	April	56.6	8.0	53.2	4.9
	May	57.4	7.4	54.4	4.5
	June	59.0	7.4	56.3	4.8
	July	59.6	7.4	56.6	4.6
	August	60.1	7.4	56.7	4.4
	September	60.2	7.6	56.5	4.3
	October	60.2	7.6	56.5	4.4
	November	60.0	7.8	56.4	4.5
	December	59.9	7.9	56.1	4.5
	<b>AVERAGE</b>	<b>58.7</b>	<b>7.8</b>	<b>55.4</b>	<b>4.8</b>
<b>1977</b>	January	59.9	7.9	56.2	4.5
	February	60.7	7.9	57.1	4.4
	March	61.3	7.8	57.7	4.4
	April	62.2	8.1	58.4	4.4
	May	62.9	7.9	58.9	4.2
	June	63.4	8.1	59.3	4.3
	July	63.4	8.3	59.2	4.4
	August	63.4	8.4	58.8	4.2
	September	63.3	8.6	58.5	4.2
	October	63.2	8.8	58.2	4.2
	November	63.1	8.7	58.1	4.0
	December	63.3	9.0	58.2	4.2
	<b>AVERAGE</b>	<b>62.6</b>	<b>8.3</b>	<b>58.2</b>	<b>4.3</b>
<b>1978</b>	January	61.7	NA	57.2	NA
	February	61.6	NA	57.1	NA
	March	61.7	NA	57.0	NA
	April	61.9	NA	57.2	NA
	May	62.5	NA	58.2	NA
	June	63.4	NA	R59.0	NA
	July	64.6*	NA	60.6*	NA

\*Preliminary data.

NA = Not available.

Sources: Lundberg Survey, Inc. for 1975 through 1977; EIA-8, "Retail Motor Fuels Service Station Survey" for January 1978 through June 1978; EIA-79, "Monthly Motor Gasoline Service Station Survey" for July 1978 forward.

## Unleaded Regular Gasoline—Full Serve

## Unleaded Regular Gasoline —Self Serve

		Average Retail Dealer Selling Price	Average Retail Dealer Margin	Average Retail Dealer Selling Price	Average Retail Dealer Margin
		Cents per gallon, including tax		Cents per gallon, including tax	
<b>1975</b>	January	NA	NA	NA	NA
	February	56.1	NA	NA	NA
	March	56.2	NA	NA	NA
	April	57.1	NA	NA	NA
	May	57.9	NA	NA	NA
	June	58.8	NA	NA	NA
	July	61.5	NA	NA	NA
	August	62.0	NA	NA	NA
	September	62.1	NA	NA	NA
	October	62.1	NA	NA	NA
	November	62.0	NA	NA	NA
	December	61.4	NA	NA	NA
	<b>AVERAGE</b>	<b>59.8</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>1976</b>	January	61.2	NA	NA	NA
	February	60.6	NA	NA	NA
	March	60.1	NA	NA	NA
	April	60.4	NA	NA	NA
	May	61.1	NA	NA	NA
	June	62.9	NA	NA	NA
	July	63.2	NA	NA	NA
	August	63.9	NA	NA	NA
	September	64.0	NA	NA	NA
	October	64.0	NA	NA	NA
	November	63.9	NA	NA	NA
	December	63.9	NA	NA	NA
	<b>AVERAGE</b>	<b>62.5</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>1977</b>	January	64.0	NA	NA	NA
	February	65.0	NA	NA	NA
	March	65.4	NA	NA	NA
	April	66.1	NA	NA	NA
	May	66.7	NA	NA	NA
	June	67.2	NA	NA	NA
	July	67.3	NA	NA	NA
	August	67.0	9.5	63.7	6.5
	September	67.0	9.5	63.7	6.5
	October	67.0	9.7	63.6	6.6
	November	67.0	9.6	63.4	6.4
	December	67.2	9.9	63.6	6.7
	<b>AVERAGE</b>	<b>66.4</b>	<b>9.6</b>	<b>63.6</b>	<b>6.5</b>
<b>1978</b>	January	65.8	NA	61.6	NA
	February	65.7	NA	61.8	NA
	March	65.8	NA	61.8	NA
	April	66.1	NA	62.0	NA
	May	66.9	NA	62.9	NA
	June	R67.8	NA	R64.0	NA
	July	68.8*	NA	65.6*	NA

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

Sources: Lundberg Survey, Inc. for 1975 through 1977; EIA-8, "Retail Motor Fuels Service Station Survey" for January 1978 through June 1978; EIA-79, "Monthly Motor Gasoline Service Station Survey" for July 1978 forward.

## Leaded Premium Gasoline—Full Serve

## Leaded Premium Gasoline —Self Serve

		Average Retail Dealer Selling Price	Average Retail Dealer Margin	Average Retail Dealer Selling Price	Average Retail Dealer Margin
		Cents per gallon, including tax		Cents per gallon, including tax	
<b>1975</b>	January	57.1	NA	NA	NA
	February	57.3	NA	NA	NA
	March	57.5	NA	NA	NA
	April	58.2	NA	NA	NA
	May	59.0	NA	NA	NA
	June	60.3	NA	NA	NA
	July	63.1	NA	NA	NA
	August	63.6	NA	NA	NA
	September	63.8	NA	NA	NA
	October	63.4	NA	NA	NA
	November	63.2	NA	NA	NA
	December	62.9	NA	NA	NA
	<b>AVERAGE</b>	<b>60.9</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>1976</b>	January	62.7	NA	59.6	NA
	February	62.1	NA	58.9	NA
	March	61.6	NA	58.4	NA
	April	61.6	NA	58.5	NA
	May	62.4	NA	59.6	NA
	June	63.9	NA	61.4	NA
	July	64.6	NA	61.8	NA
	August	65.2	NA	62.0	NA
	September	65.3	NA	61.9	NA
	October	65.2	NA	61.9	NA
	November	65.2	NA	61.9	NA
	December	65.0	NA	61.6	NA
	<b>AVERAGE</b>	<b>63.8</b>	<b>NA</b>	<b>60.7</b>	<b>NA</b>
<b>1977</b>	January	65.2	NA	61.7	NA
	February	66.1	NA	62.7	NA
	March	66.8	NA	63.3	NA
	April	67.6	NA	64.1	NA
	May	68.4	NA	64.8	NA
	June	68.9	NA	65.2	NA
	July	68.9	NA	65.2	NA
	August	68.9	9.9	65.8	7.2
	September	68.9	10.0	65.8	7.3
	October	68.9	10.1	65.7	7.3
	November	68.9	10.1	65.6	7.3
	December	69.1	10.2	65.8	7.4
	<b>AVERAGE</b>	<b>68.1</b>	<b>10.1</b>	<b>64.7</b>	<b>7.3</b>
<b>1978</b>	January	67.7	NA	63.5	NA
	February	67.7	NA	64.0	NA
	March	68.0	NA	63.9	NA
	April	68.3	NA	64.3	NA
	May	69.0	NA	65.3	NA
	June	R70.0	NA	R66.2	NA
	July	71.1*	NA	68.3*	NA

\*Preliminary data.

NA = Not available.

R=Revised data.

Sources: Lundberg Survey, Inc. for 1975 through 1977; EIA-8, "Retail Motor Fuels Service Station Survey" for January 1978 through June 1978; EIA-79, "Monthly Motor Gasoline Service Station Survey" for July 1978 forward.

# Motor Gasoline (Continued)

## Average Retail Dealer Selling Prices for Major\* and Nonmajor Retail Dealers—June and July 1978

### Leaded Regular Gasoline—Full Serve

Cents per gallon, including tax

	Selling Price	
	June	July**
	*Major	R64.9
*Nonmajor	R60.7	62.0
*National Average	63.4	64.6

### Unleaded Regular Gasoline—Full Serve

Cents per gallon, including tax

	Selling Price	
	June	July**
	Major	R69.0
Nonmajor	64.4	65.6
National Average	R67.8	68.8

### Leaded Regular Gasoline—Self Serve

	Selling Price	
	June	July**
	Major	R60.5
Nonmajor	57.8	59.2
National Average	R59.0	60.6

### Unleaded Regular Gasoline—Self Serve

	Selling Price	
	June	July**
	Major	65.6
Nonmajor	R61.5	62.6
National Average	R64.0	65.6

### Leaded Premium Gasoline—Full Serve

	Selling Price	
	June	July**
	Major	71.2
Nonmajor	R66.5	67.2
National Average	R70.1	71.1

### Unleaded Premium Gasoline—Full Serve

	Selling Price	
	June	July**
	Major	***
Nonmajor	***	72.1
National Average	***	73.5

### Leaded Premium Gasoline—Self Serve

	Selling Price	
	June	July**
	Major	68.6
Nonmajor	63.4	64.8
National Average	R66.2	68.3

### Unleaded Premium Gasoline—Self Serve

	Selling Price	
	June	July**
	Major	***
Nonmajor	***	***
National Average	***	70.3

\*See explanatory Note 21.

\*\*Preliminary data.

\*\*\*Insufficient data.

R = Revised data.

Source: EIA-8 "Retail Motor Fuels Service Station Survey" for June 1978; EIA-79, "Monthly Motor Gasoline Service Station Survey" for July 1978.

## Average Regional Retail Dealer Selling Prices for Full Serve Leaded Regular and Unleaded Regular Gasoline—June and July 1978

DOE Region**	Leaded Regular		Unleaded Regular	
	Cents per gallon, including tax		Cents per gallon, including tax	
	June	July*	June	July*
1	R62.8	64.2	R66.9	68.2
2	R62.0	63.4	R66.6	68.0
3	R63.3	64.7	R67.2	68.4
4	R63.4	63.2	R68.0	68.2
5	R63.0	64.5	R67.2	68.5
6	R61.8	63.1	65.6	66.8
7	R62.7	63.5	66.6	67.5
8	R65.7	67.6	R69.1	70.5
9	R68.5	70.1	72.8	74.1
10	R66.3	67.9	70.4	72.0
National Average	63.4	64.6	R67.8	68.0

## Average Regional Retail Dealer Selling Prices for Self Serve Leaded Regular and Unleaded Regular Gasoline—June and July 1978

DOE Region**	Leaded Regular		Unleaded Regular	
	Cents per gallon, including tax		Cents per gallon, including tax	
	June	July*	June	July*
1	R59.1	61.7	64.0	66.8
2	R61.6	62.6	R67.3	67.7
3	R58.9	60.3	R64.6	66.3
4	R58.3	59.1	63.3	64.3
5	59.0	61.2	R63.4	65.1
6	R56.1	56.9	60.6	61.6
7	R58.3	60.7	R62.2	65.1
8	R59.2	61.3	62.3	64.5
9	R63.3	63.9	R68.3	69.3
10	64.0	64.8	67.9	68.5
National Average	R59.0	60.6	R64.0	65.6

\*Preliminary data.

\*\*DOE regions are defined in Explanatory Note 17.

R = Revised data.

Source: EIA-8 "Retail Motor Fuels Service Station Survey," for June 1978; EIA-79, "Monthly Motor Gasoline Service Station Survey" for July 1978.

# Motor Gasoline (Continued)

## Average Refiner Retail Gasoline Selling Prices\*

		Regular	Premium	Unleaded
		Cents per gallon, including tax		
<b>1975</b>	July	55.7	NA	57.4
	August	55.9	59.8	58.0
	September	55.6	59.5	57.6
	October	55.0	59.1	57.1
	November	54.1	58.5	56.3
	December	53.7	58.1	56.0
<b>1976</b>	January	53.5	57.9	55.8
	February	53.4	57.8	55.9
	March	52.3	56.6	54.6
	April	52.7	56.8	55.0
	May	54.1	58.2	56.3
	June	55.7	60.1	57.9
	July	55.9	60.3	58.4
	August	55.7	60.3	58.5
	September	55.6	60.1	58.1
	October	55.4	59.9	58.1
	November	55.2	59.8	57.9
	December	55.0	59.6	57.8
<b>1977</b>	January	54.9	59.5	57.7
	February	55.5	60.2	58.9
	March	56.0	61.0	59.5
	April	57.1	61.9	60.6
	May	57.7	62.7	61.4
	June	58.0	62.7	61.8
	July	58.2	63.2	61.8
	August	57.9	63.1	61.8
	September	57.6	62.9	61.5
	October	57.2	62.7	61.2
	November	57.0	62.6	61.1
	December	56.9	62.7	61.0
<b>1978</b>	January	56.8	62.6	60.9
	February	56.5	62.4	60.7
	March	56.5	62.5	60.7
	April	56.8	62.8	61.0
	May	R57.1	R63.6	R61.8
	June**	57.5	64.2	61.9

NA = Not available.

\*Retail refers to the price at which refiner-owned and operated retail stations sell gasoline to the consumer.

\*\*Preliminary data.

Source: FEA Form P302-M-1 "Petroleum Industry Monthly Report for Product Prices."

# Aviation Fuels

## AVIATION FUELS (Cents per gallon)

		Aviation Gasoline		Naphtha-Type*	Kerosene-Type	
		Wholesale	Retail	Retail	Wholesale	Retail
<b>1975</b>	July	40.6	40.6	31.4	29.8	29.2
	August	41.3	42.1	30.8	32.1	29.5
	September	41.2	39.9	30.3	31.5	29.6
	October	41.1	41.2	30.2	31.7	30.0
	November	39.7	42.1	30.6	31.6	30.2
	December	40.9	40.9	30.7	31.9	30.5
<b>1976</b>	January	41.4	41.2	31.0	30.6	31.3
	February	41.2	42.0	31.1	31.1	31.2
	March	41.1	41.9	30.9	31.2	30.7
	April	41.2	42.5	30.5	31.9	30.5
	May	42.1	43.1	30.6	33.0	30.2
	June	42.6	42.3	31.5	32.1	30.3
	July	43.6	44.2	31.3	32.9	30.8
	August	43.7	44.1	31.7	32.1	31.1
	September	43.6	44.7	32.1	32.5	31.4
	October	43.6	43.8	32.1	32.5	31.9
	November	43.4	43.9	32.8	33.4	32.4
	December	43.5	43.7	32.9	34.7	32.2
<b>1977</b>	January	43.4	44.1	33.4	34.6	33.2
	February	44.7	45.0	34.0	37.1	34.1
	March	45.0	45.7	34.5	35.9	34.6
	April	46.0	47.2	34.3	35.9	34.9
	May	46.6	47.8	34.3	36.3	35.1
	June	46.7	47.6	35.1	36.8	35.7
	July	47.0	48.7	35.6	37.1	35.8
	August	47.9	50.1	35.5	36.6	36.0
	September	47.9	49.1	35.6	37.1	37.0
	October	48.1	49.0	35.7	37.3	37.3
	November	48.3	47.8	35.8	37.9	37.5
	December	47.8	48.1	36.2	37.2	37.8
<b>1978</b>	January	47.8	49.1	36.9	37.9	38.5
	February	48.3	48.4	36.5	38.3	38.2
	March	49.1	49.4	36.9	37.8	38.4
	April	49.5	51.5	36.8	38.1	38.5
	May	50.1	50.0	37.3	38.3	38.6
	June	50.4	52.8	37.2	38.9	38.9
	July**	51.4	52.4	37.6	39.0	38.9

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

\*\*Preliminary data.

Note: Wholesale refers to the price of aviation fuel sold to 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.

Source: FEA Form P302-M-1 "Petroleum Industry Monthly Report for Product Prices."

# Heating Oil

## Residential Heating Oil Prices\*

		Average Selling Price**	Average Purchase Price**	Average Distributor Margin**
		Cents per gallon		
<b>1974</b>	<b>AVERAGE</b>	<b>34.7</b>	<b>26.9</b>	
<b>1975</b>	January	37.4	29.1	8.3
	February	37.0	28.7	8.3
	March	36.6	28.4	8.2
	April	36.1	29.3	6.8
	May	36.7	30.0	6.7
	June	37.1	30.3	6.8
	July	37.2	30.6	6.6
	August	38.0	31.2	6.8
	September	38.4	31.0	7.4
	October	39.3	31.8	7.5
	November	39.4	32.1	7.3
	December	40.1	32.4	7.7
	<b>AVERAGE</b>	<b>37.7</b>	<b>31.2</b>	
<b>1976</b>	January	40.2	32.0	8.8
	February	40.2	32.0	8.8
	March	39.4	31.5	9.2
	April	39.0	31.3	9.1
	May	39.0	31.4	8.6
	June	39.3	31.8	8.6
	July	39.3	32.3	8.0
	August	39.8	32.2	8.5
	September	40.2	32.6	8.7
	October	40.7	33.1	8.6
	November	41.9	33.4	9.1
	December	43.0	34.5	9.2
<b>1977</b>	January	44.4	35.8	9.3
	February	45.3	36.7	9.4
	March	45.8	37.0	9.5
	April	45.9	37.1	9.6
	May	45.7	37.1	9.5
	June	45.7	37.1	9.3
	July	45.8	37.2	9.3
	August	46.0	37.3	9.2
	September	46.2	37.4	9.4
	October	46.7	37.5	9.8
	November	47.6	37.3	10.2
	December	47.9	37.2	10.4
<b>1978</b>	January	48.5	38.1	10.5
	February	48.6	37.8	11.0
	March	48.6	37.6	11.1
	April	48.6	37.6	11.1
	May	48.3	37.6	11.0
	June	48.2	37.7	10.7
	July***	48.2	37.7	10.7

## Refiners' Average Selling Prices to Resellers and Retailers

<b>1976</b>	January	31.1
	February	30.9
	March	30.4
	April	30.1
	May	30.3
	June	30.5
	July	30.9
	August	31.0
	September	31.2
	October	31.7
	November	32.5
	December	33.6
	<b>ANNUAL</b>	<b>31.4</b>
<b>1977</b>	January	34.7
	February	35.4
	March	35.9
	April	35.8
	May	35.7
	June	35.7
	July	35.8
	August	35.7
	September	35.5
	October	36.0
	November	36.3
	December	36.6
	<b>ANNUAL</b>	<b>35.7</b>
<b>1978</b>	January	36.8
	February	36.4
	March	36.2
	April	36.0
	May	36.2
	June	35.8
	July***	35.9

\*See Explanatory Note 18.

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

\*\*\*Preliminary data.

NA = Not available.

Sources: 1974 through December 1975—Form CLC-92 "No. 2 Heating Oil Monthly Price Adjustment Report;" January 1976 forward—FEA Form P112-M-1/EIA-9 "No. 2 Heating Oil Supply/Price Monitoring Report."

## Residential Heating Oil Prices by Region

### Census Region

		New England	Mid- Atlantic	South Atlantic	East North Central	East South Central	West North Central	West South Central	Mountain	Pacific
Cents per gallon										
<b>1976</b>	January	41.5	40.0	39.6	38.3	37.8	38.2	35.0	41.2	41.6
	February	41.4	40.3	39.4	38.0	37.7	38.3	34.4	41.0	42.1
	March	41.5	39.8	39.2	37.0	36.7	37.6	34.5	40.4	41.9
	April	41.2	40.0	38.9	37.1	35.9	37.3	34.6	40.3	40.8
	May	41.1	39.7	38.2	37.1	35.6	37.3	34.0	40.4	42.1
	June	40.9	41.1	39.1	37.7	37.2	37.3	34.3	40.3	42.8
	July	40.7	39.8	39.1	37.9	36.9	37.3	34.4	40.1	45.0
	August	41.5	40.3	39.5	38.2	37.2	37.7	34.3	39.7	44.7
	September	41.9	40.8	37.5	38.3	38.0	38.8	34.8	41.1	46.0
	October	42.3	41.4	40.4	39.0	38.5	38.7	35.1	42.1	46.0
	November	43.3	42.4	42.1	40.1	39.8	39.5	36.3	42.8	46.5
	December	44.4	43.6	42.9	41.5	41.0	41.9	36.3	42.7	43.8
<b>1977</b>	January	45.8	44.9	44.2	43.2	43.1	43.0	36.9	43.4	44.6
	February	46.6	45.8	45.7	43.9	43.4	44.0	38.8	44.2	45.2
	March	47.1	46.3	45.5	44.4	43.8	44.6	40.2	44.7	45.9
	April	47.2	46.5	45.5	44.8	43.3	44.2	40.8	44.8	46.4
	May	47.0	46.4	45.6	44.7	43.7	43.7	40.7	44.8	46.5
	June	47.1	46.4	45.7	44.7	44.0	43.3	41.2	45.8	46.8
	July	47.1	46.4	45.7	44.7	44.2	44.2	41.2	44.2	47.9
	August	47.4	46.6	45.6	44.7	43.7	44.5	41.0	44.9	48.2
	September	47.7	46.7	45.8	45.0	44.2	44.9	41.1	44.9	47.2
	October	48.0	47.3	46.4	45.3	43.9	45.4	41.1	45.4	47.4

### DOE Region\*

		1	2	3	4	5	6	7	8	9	10
	November	48.5	48.1	47.0	46.1	45.7	NA	44.2	45.4	44.9	47.4
	December	48.9	48.6	47.5	46.6	46.1	NA	44.5	45.7	44.5	47.3
<b>1978</b>	January	49.4	49.2	48.1	47.5	46.4	NA	44.5	45.2	44.7	47.4
	February	49.5	49.3	48.4	47.6	46.4	NA	45.2	45.5	45.6	47.5
	March	49.4	49.3	48.4	47.7	46.5	NA	44.4	45.0	47.0	47.8
	April	49.3	49.2	48.2	47.1	46.4	NA	44.6	45.0	45.1	47.6
	May	49.3	49.1	47.7	46.7	46.3	NA	44.7	45.0	44.4	47.4
	June	49.2	49.1	47.8	46.8	46.0	NA	44.8	45.4	43.9	47.7
	July**	49.1	49.0	47.6	46.7	46.4	NA	45.0	45.8	43.5	48.1

\*DOE regions are defined in Explanatory Note 17.

\*\*Preliminary Data.

NA=Not available. Data for Region 6 are based on a sample of less than four reporting firms.

R=Revised data.

Note: Average regional distributor purchase prices for heating oil for the period January 1975 through February 1976 are published on page 70 of the October 1977 issue of the *Monthly Energy Review*.

Source: FEA Form P112-M-1/EIA-9 "No. 2 Heating Oil Supply/Price Monitoring Report."

## No. 1 Diesel Fuel Prices

		Wholesale**	Retail**
		Cents per gallon, excluding tax	
1975	July	30.1	37.7
	August	30.8	38.2
	September	31.5	36.9
	October	33.1	35.4
	November	33.3	35.0
	December	34.2	35.5
1976	January	33.8	37.1
	February	33.6	35.3
	March	33.9	34.8
	April	34.2	35.4
	May	34.5	37.5
	June	34.7	37.9
	July	35.0	38.1
	August	36.0	38.2
	September	35.3	37.7
	October	36.3	36.4
	November	35.7	37.0
	December	35.5	36.7
1977	January	37.1	37.8
	February	38.4	39.2
	March	39.0	39.6
	April	39.7	40.6
	May	39.5	41.7
	June	40.2	41.2
	July	40.3	41.3
	August	40.9	41.3
	September	39.0	41.1
	October	40.1	39.8
	November	40.9	40.4
	December	39.5	41.4
1978	January	39.8	41.3
	February	39.6	41.6
	March	39.6	41.0
	April	40.2	42.5
	May	40.3	42.3
	June	40.2	43.1
	July*	39.7	43.4

\*Preliminary.

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

R=Revised data.

Source: FEA Form P302-M-1 "Petroleum Industry Monthly Report for Product Prices."

# Residual Fuel Oil

## RESIDUAL FUEL OIL (Dollars per barrel)

		NO. 5		NO. 6								BUNKER "C"	
				0.0 to 0.3 percent sulfur		0.31 to 1.0 percent sulfur		Greater than 1.0 percent sulfur		Total			
		Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail
<b>1975</b>	July	10.19	11.28	11.57	12.86	10.90	12.05	10.25	10.59	10.66	11.70	7.88	10.54
	August	10.19	11.04	11.53	13.22	10.85	12.34	9.72	10.53	10.49	11.89	8.76	10.43
	September	10.58	11.07	11.75	12.94	10.63	11.65	9.87	10.52	10.48	11.52	8.93	10.29
	October	10.15	11.12	11.50	12.98	10.37	12.09	9.75	10.38	10.30	11.69	8.88	10.31
	November	10.90	11.27	12.21	12.96	10.33	12.03	9.90	10.34	10.47	11.68	9.01	10.43
	December	10.83	11.64	11.89	12.87	10.37	11.83	9.65	10.06	10.24	11.42	9.07	10.15
<b>1976</b>	January	11.08	11.63	12.13	12.39	10.62	11.61	9.57	10.23	10.53	11.35	8.75	10.35
	February	10.55	11.57	12.42	12.78	10.87	11.84	9.70	10.35	10.73	11.52	8.53	10.27
	March	10.41	11.89	12.36	12.81	11.05	11.80	9.56	10.21	10.74	11.43	8.59	10.35
	April	10.21	11.58	11.44	12.34	10.86	11.77	9.53	10.28	10.38	11.43	8.66	10.12
	May	9.87	11.49	11.71	11.87	10.80	11.40	9.47	9.89	10.11	10.95	8.75	10.65
	June	9.91	11.23	11.71	12.24	10.33	11.36	9.73	10.03	10.12	11.04	8.57	10.10
	July	10.06	11.70	11.73	12.12	10.22	11.36	9.83	10.04	10.25	11.04	9.23	10.34
	August	9.78	11.48	11.85	12.29	10.45	11.46	9.61	10.22	10.20	11.20	8.93	9.98
	September	10.36	11.37	11.85	12.50	10.33	11.55	10.04	10.28	10.35	11.30	9.22	10.05
	October	10.40	11.86	11.96	12.85	11.08	11.99	10.00	10.73	10.75	11.82	9.57	10.81
	November	11.04	12.04	12.41	13.15	11.57	12.21	10.40	10.99	11.16	11.95	10.31	10.88
	December	11.49	12.64	13.18	13.29	11.80	12.76	11.04	11.48	11.87	12.44	9.95	11.24
<b>1977</b>	January	12.00	13.20	14.06	14.34	12.79	13.68	11.51	12.32	12.45	13.32	10.34	11.89
	February	12.28	13.63	14.00	14.60	12.91	14.06	12.04	12.74	12.69	13.71	10.24	12.00
	March	12.15	13.76	14.00	14.58	13.47	14.51	11.62	12.70	12.68	13.84	9.97	11.74
	April	11.62	13.26	12.88	14.63	13.05	14.10	11.27	12.50	12.04	13.61	10.14	11.75
	May	11.54	12.69	13.56	14.48	11.90	13.73	11.05	12.15	11.64	13.42	9.97	11.41
	June	11.25	13.10	13.12	14.28	11.88	13.27	11.10	11.93	11.72	13.02	10.30	11.39
	July	11.24	12.67	13.31	14.38	11.73	13.12	11.02	12.06	11.62	13.01	10.91	11.44
	August	11.61	12.75	13.32	14.15	11.83	13.08	11.89	12.01	12.06	13.00	11.08	11.58
	September	11.70	12.84	13.35	14.33	11.79	13.11	11.78	12.19	12.03	12.94	11.20	11.72
	October	11.52	13.14	13.38	14.30	11.69	13.15	11.71	12.33	12.10	13.15	10.98	11.87
	November	11.29	13.16	12.85	14.24	11.66	12.93	11.44	12.15	11.76	12.96	10.42	11.66
	December	11.64	13.53	12.87	13.95	11.38	12.60	10.77	11.95	11.28	12.70	11.27	11.37
<b>1978</b>	January	11.45	13.36	12.72	14.19	11.56	12.70	10.71	12.00	11.33	12.79	9.73	11.15
	February	11.75	13.35	12.20	14.05	11.64	12.42	10.58	11.75	11.25	12.53	9.66	10.84
	March	11.41	13.62	12.73	13.99	11.94	12.75	10.48	11.70	11.36	12.63	8.95	10.47
	April	11.01	13.44	12.72	14.51	12.26	12.95	10.84	11.85	11.57	12.87	8.76	10.28
	May	11.23	13.66	12.67	14.21	12.01	12.88	10.79	11.74	11.70	12.79	9.89	11.05
	June	10.77	12.98	12.37	13.99	11.83	12.58	10.82	11.60	11.41	12.50	9.90	10.91
	July*	10.44	12.58	11.26	13.93	11.29	12.01	10.51	11.48	10.86	12.21	9.76	10.68

\*Preliminary.

R=Revised data.

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

Source: FEA Form P302-M-1 "Petroleum Industry Monthly Report for Product Prices."

# Propane and Butane

## Wholesale Propane and Butane Prices\*

		Propane	Butane
		Cents per gallon	
<b>1975</b>	July	17.9	17.5
	August	18.8	18.2
	September	19.8	19.7
	October	19.9	20.4
	November	20.2	20.5
	December	20.6	20.2
	<b>AVERAGE</b> (6 months)	<b>19.7</b>	<b>19.4</b>
<b>1976</b>	January	21.2	20.6
	February	21.0	21.6
	March	20.1	21.3
	April	19.4	20.9
	May	19.0	21.6
	June	19.5	21.4
	July	19.9	22.2
	August	20.2	22.3
	September	20.6	22.0
	October	20.9	22.7
	November	21.4	22.4
	December	22.1	23.6
	<b>AVERAGE</b>	<b>20.6</b>	<b>21.9</b>
<b>1977</b>	January	22.9	23.0
	February	24.0	24.3
	March	23.7	24.9
	April	23.6	24.2
	May	24.5	25.8
	June	24.5	25.6
	July	24.9	26.2
	August	25.5	26.1
	September	25.9	27.4
	October	26.8	26.3
	November	26.5	25.8
	December	26.7	25.8
<b>1978</b>	January	27.0	25.9
	February	26.5	25.1
	March	25.6	24.9
	April	24.4	23.9
	May	23.7	22.8
	June	23.3	22.9
	July	23.0	22.1

\*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.

Source: FEA Form P302-M-1, "Petroleum Industry Monthly Report for Product Prices."

# Natural Gas

## Natural Gas Prices Reported by Major Interstate Pipeline Companies

		PURCHASES			SALES		
		From Domestic Producers	From Canadian and Foreign Sources	Total Purchases	To Industrial Users*	To Resellers**	Total Sales
Cents per thousand cubic feet							
<b>1975</b>	January	30.4	104.0	35.8	67.8	70.9	71.2
	February	29.5	105.9	35.2	70.1	74.0	74.3
	March	33.5	102.5	38.8	70.4	77.7	77.8
	April	32.8	102.8	38.3	71.1	82.3	81.9
	May	34.7	100.6	39.8	71.1	83.7	82.8
	June	35.3	98.9	40.2	72.2	85.1	83.9
	July	36.7	101.1	41.7	73.9	84.6	83.6
	August	35.5	141.0	43.3	73.4	86.5	85.1
	September	36.5	141.1	44.4	72.8	85.9	84.7
	October	36.0	140.1	44.3	77.2	85.9	85.4
	November	36.5	162.5	46.7	77.8	86.7	86.4
	December	35.8	161.8	45.9	80.7	87.6	87.5
<b>1976</b>	January	38.3	164.0	48.7	88.2	90.1	90.6
	February	39.7	165.3	50.1	88.2	93.8	94.1
	March	39.4	164.5	49.9	86.8	92.0	92.2
	April	40.5	164.3	51.5	89.0	96.5	96.4
	May	42.2	165.0	52.7	87.4	99.2	98.5
	June	43.7	166.6	54.0	89.8	99.4	98.8
	July	43.8	168.4	53.8	94.6	102.7	102.0
	August	56.4	167.7	65.7	98.2	105.3	104.6
	September	68.6	183.7	77.9	103.9	93.1	94.7
	October	57.6	190.1	69.3	106.7	105.8	106.2
	November	52.6	182.4	63.6	113.5	106.7	107.5
	December	54.0	189.4	65.7	133.1	117.8	118.6
<b>1977</b>	January	59.4	201.8	71.6	143.2	124.3	125.4
	February	63.4	199.7	76.4	130.6	130.4	131.0
	March	69.8	200.4	83.4	129.3	132.1	132.5
	April	65.3	190.7	76.5	128.1	131.0	131.1
	May	69.1	191.3	80.5	128.1	133.9	133.5
	June	69.2	R188.6	79.6	R125.3	135.1	134.2
	July	72.1	187.7	81.8	R134.3	135.9	R135.7
	August	71.1	185.5	81.5	133.9	134.0	134.0
	September	71.8	194.7	84.0	131.8	135.7	135.4
	October	74.2	211.9	87.4	133.9	135.6	135.6
	November	74.3	214.2	87.1	134.9	141.7	141.5
	December	73.9	216.5	86.8	138.5	132.2	133.1
<b>1978</b>	January	74.0	211.1	86.4	150.4	138.2	139.2
	February	76.3	212.7	89.3	158.2	141.5	142.8
	March	79.3	212.5	90.1	149.7	144.9	145.7
	April	80.3	222.0	92.5	149.8	147.7	148.2
	May	81.2	218.5	92.4	149.0	149.7	150.0
	June	83.6	220.5	94.3	148.3	153.0	152.7
	July	84.2	226.7	95.1	149.5	155.7	155.0

\*Represents direct sales by pipeline companies to industrial users. Does not include sales to industrial users by resellers.

\*\*Includes the cost of gas to the distributing utility at entrance of distribution system or point of receipt.

R=Revised data.

Source: Federal Power Commission Form 11, "Natural Gas Pipeline Company Monthly Statement."

# Natural Gas (Continued)

## Intrastate Natural Gas Prices for Selected States by Type of Contract\*

	California		Kansas		Louisiana		Oklahoma		Texas	
	New Contracts	Renegotiated or Amended								
Cents per thousand cubic feet										
<b>1975</b>										
January	75.00	76.89	55.30	—	98.04	102.96	95.99	76.03	139.90	164.04
February	—	—	—	—	128.68	113.06	97.30	64.49	154.72	163.11
March	—	—	—	—	115.78	125.89	107.70	55.05	96.66	97.50
April	—	—	64.65	45.24	149.78	134.81	132.58	87.79	160.09	176.32
May	—	—	—	—	126.80	123.53	129.31	106.56	156.72	158.59
June	—	53.68	65.00	—	130.91	129.57	94.22	120.29	165.00	187.54
July	—	65.51	—	—	117.22	125.63	133.87	114.62	183.22	178.22
August	—	75.00	198.24	—	132.87	114.20	136.77	121.21	151.87	132.50
September	—	86.00	152.89	70.38	121.89	141.23	143.73	106.69	169.87	180.77
October	135.53	—	—	—	75.16	117.60	143.09	144.14	168.10	187.30
November	—	—	157.95	139.02	138.42	71.65	140.61	133.15	149.43	182.17
December	—	—	—	80.00	139.64	131.92	132.50	153.86	187.20	140.90
<b>1976</b>										
January	—	83.97	103.81	84.54	138.75	131.23	149.87	109.39	181.05	193.31
February	—	40.00	—	109.68	125.00	145.30	133.72	146.71	176.63	191.54
March	—	—	150.36	—	145.66	155.39	162.83	168.57	178.70	176.44
April	195.00	—	150.00	—	142.99	154.05	162.12	148.30	202.60	152.95
May	122.00	60.39	180.39	149.84	125.54	106.05	156.35	164.02	154.00	197.22
June	—	—	114.45	150.82	147.11	137.67	169.56	168.14	178.01	192.98
July	—	117.15	137.57	150.83	127.55	141.71	148.20	95.00	151.19	176.23
August	—	97.38	—	—	138.70	164.23	151.81	171.49	157.98	198.81
September	—	—	—	125.68	164.10	156.39	164.85	172.00	184.07	197.66
October	—	—	—	111.72	144.64	149.91	163.48	161.16	196.58	188.80
November	—	—	150.82	144.21	—	131.91	162.57	90.73	186.80	182.82
December	—	97.47	160.73	—	194.51	152.45	167.55	175.98	198.71	202.54
<b>1977</b>										
January	—	105.58	155.49	—	155.82	137.65	172.35	167.49	193.36	204.06
February	—	107.27	121.66	—	141.33	120.84	147.86	131.27	185.55	203.22
March	119.79	116.28	148.18	—	219.43	208.97	168.57	168.28	197.14	190.83
April	—	—	137.10	156.38	216.41	150.35	165.61	167.89	192.22	205.44
May	—	107.20	119.00	—	197.53	158.97	156.52	171.09	204.06	201.27
June	—	112.21	91.49	—	180.21	169.61	166.69	169.51	194.54	206.41
July	—	139.02	88.57	174.53	174.90	169.64	172.95	168.25	206.96	202.46
August	—	—	131.97	90.49	177.99	166.66	164.33	158.46	188.96	183.57
September	—	—	—	136.66	163.72	162.49	171.78	172.70	167.14	212.44
October	—	—	—	75.63	201.26	142.88	148.44	175.01	202.73	204.08
November	135.00	136.15	150.39	105.80	—	182.97	166.26	174.78	186.94	199.11
December	—	124.40	147.09	166.59	196.42	154.23	160.32	173.49	207.65	203.32
<b>1978</b>										
January	—	173.80	137.50	184.32	194.38	202.88	169.22	180.65	168.54	211.52
February	—	—	—	163.54	180.37	181.40	165.35	178.74	163.94	211.32
March	—	—	—	203.60	198.62	182.35	175.48	177.37	170.64	196.60
April	—	—	185.36	60.19	201.85	237.64	181.08	166.69	202.35	202.59
May	—	—	—	197.49	198.18	197.07	171.98	175.67	213.52	193.90
June	—	—	—	135.13	—	212.50	138.00	174.68	187.68	205.71

\*Prices are for FERC jurisdictional natural gas companies selling more than 1 billion cubic feet per year in interstate commerce. Source: Federal Power Commission Form 45, "Summary of Intrastate Natural Gas Prices."

# Natural Gas (Continued)

## Average Retail Prices for Natural Gas Sold to Residential Customers for Heating Use

		Cents per thousand cubic feet
1975	January	141.2
	February	144.7
	March	146.1
	April	150.6
	May	153.7
	June	155.7
	July	154.7
	August	155.4
	September	159.4
	October	160.6
	November	166.2
	December	170.2
1976	January	171.4
	February	175.2
	March	177.0
	April	178.4
	May	180.8
	June	183.2
	July	184.5
	August	185.8
	September	191.2
	October	195.0
	November	198.3
	December	208.3
	<b>AVERAGE</b>	<b>185.8</b>
1977	January	213.8
	February	217.0
	March	219.9
	April	223.7
	May	227.0
	June	227.3
	July	229.9
	August	230.1
	September	230.4
	October	235.1
	November	238.4
	December	237.3
1978	January	241.6
	February	243.0
	March	247.0
	April	248.7
	May	255.2
	June	254.2

Source: Bureau of Labor Statistics.

# Utility Fossil Fuels

## U.S. Average Delivered Prices of Coal at Utilities

		<b>Contract</b>	<b>Spot</b>
		Dollars per short ton	
<b>1975</b>	January	14.57	28.12
	February	15.71	25.93
	March	15.68	25.02
	April	15.88	24.52
	May	16.45	23.78
	June	16.40	23.36
	July	16.06	22.35
	August	16.65	22.39
	September	16.76	22.46
	October	16.72	22.52
	November	16.79	22.50
	December	16.90	22.40
<b>1976</b>	January	16.53	21.75
	February	17.04	21.23
	March	17.65	21.36
	April	17.76	21.43
	May	18.12	21.17
	June	18.05	20.88
	July	17.93	21.00
	August	18.19	21.35
	September	18.55	21.46
	October	18.49	21.28
	November	18.26	21.56
	December	18.15	21.49
<b>1977</b>	January	17.87	21.93
	February	18.28	22.71
	March	18.75	23.27
	April	18.82	22.41
	May	18.97	23.73
	June	19.03	24.62
	July	19.35	25.13
	August	18.95	24.73
	September	19.75	26.14
	October	20.31	26.83
	November	20.51	27.01
	December	20.49	28.01
<b>1978</b>	January	16.94	30.27
	February	16.50	30.50
	March	18.59	31.52
	April	21.43	30.42
	May	22.23	29.62

Source: Federal Power Commission Form 423.

# Utility Fossil Fuels (Continued)

## COST OF FOSSIL FUELS DELIVERED TO STEAM ELECTRIC UTILITY PLANTS

### All Fossil Fuels\*

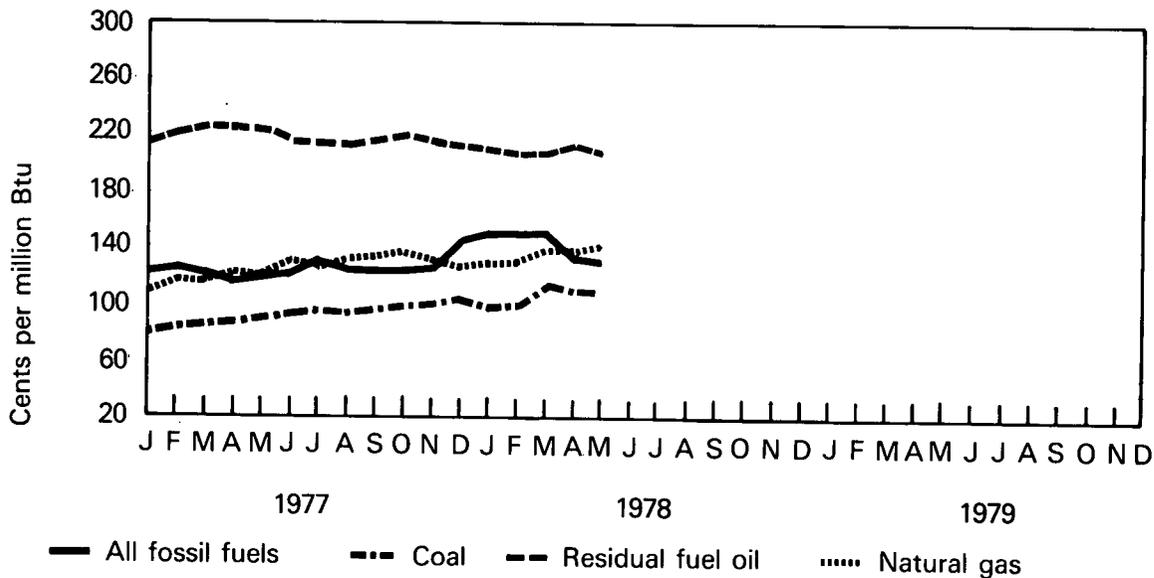
Region	1977												1978	
	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
	Cents per million Btu													
New England	213.9	215.1	213.3	209.9	206.7	206.8	205.2	202.1	198.9	196.5	196.5	193.9	199.0	195.1
Middle Atlantic	149.9	149.4	152.1	167.9	158.8	151.3	144.8	142.5	180.2	203.6	199.5	182.0	153.2	150.9
East North Central	102.6	103.9	107.3	109.7	105.2	106.5	108.8	111.6	134.8	172.2	184.6	172.3	128.5	124.4
West North Central	79.0	82.5	84.0	87.9	86.2	86.5	89.2	87.4	99.1	102.4	110.9	106.1	95.4	91.1
South Atlantic	132.7	133.8	137.9	148.9	146.6	143.7	137.6	137.1	156.2	169.0	172.8	169.3	147.5	143.2
East South Central	100.3	102.3	104.5	110.4	106.6	109.9	112.0	113.0	125.5	140.6	147.1	145.2	126.6	120.0
West South Central	117.5	117.2	124.3	123.2	122.5	123.2	121.3	119.8	120.9	129.4	130.9	124.7	133.8	133.7
Mountain	64.3	68.8	69.9	71.8	72.6	73.7	74.7	68.4	73.3	67.6	64.8	67.1	66.0	72.5
Pacific	217.6	219.0	212.6	221.2	223.8	221.2	238.7	221.9	226.8	221.4	216.8	225.8	232.8	228.7
<b>NATIONAL AVG.</b>	<b>122.0</b>	<b>123.1</b>	<b>125.1</b>	<b>133.2</b>	<b>129.4</b>	<b>128.6</b>	<b>127.5</b>	<b>125.6</b>	<b>144.0</b>	<b>153.4</b>	<b>154.3</b>	<b>151.6</b>	<b>135.4</b>	<b>132.8</b>

\*See Explanatory Note 20.

R=Revised data.

Source: Federal Power Commission Form 423.

### National Average



## Coal

Region	1977										1978				
	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	
Cents per million Btu															
New England	127.9	128.1	130.1	130.6	133.1	134.0	122.4	136.6	137.5	143.2	143.5	150.7	153.4	146.8	
Middle Atlantic	102.5	103.1	107.4	111.7	107.0	106.0	104.6	105.0	127.1	122.4	116.2	124.3	116.4	118.7	
East North Central	93.9	94.3	95.5	99.8	97.3	99.5	101.7	104.7	116.3	134.9	138.5	137.3	117.8	116.6	
West North Central	72.5	75.5	77.0	77.9	77.4	78.5	84.3	81.2	88.7	88.5	94.0	93.5	87.6	86.6	
South Atlantic	108.4	110.9	113.9	119.2	115.9	121.1	122.0	122.8	133.0	129.4	129.4	139.6	130.6	129.1	
East South Central	96.5	95.8	95.0	99.9	98.4	103.1	104.3	107.8	114.0	118.3	131.5	136.0	123.1	116.2	
West South Central	60.2	60.3	63.9	59.2	62.1	64.4	65.2	72.0	68.7	74.0	83.5	67.6	67.0	69.0	
Mountain	42.4	46.3	47.4	43.0	50.1	47.5	51.4	48.8	47.9	42.2	45.6	46.4	48.1	51.3	
Pacific	70.8	70.9	71.2	71.7	71.1	71.3	71.4	70.6	70.5	71.5	71.2	75.0	78.8	78.3	
<b>NATIONAL AVG.</b>	<b>90.1</b>	<b>91.8</b>	<b>93.3</b>	<b>96.2</b>	<b>94.3</b>	<b>98.0</b>	<b>100.5</b>	<b>101.7</b>	<b>106.8</b>	<b>99.6</b>	<b>102.1</b>	<b>113.4</b>	<b>110.9</b>	<b>110.6</b>	

## Residual Fuel Oil\*

Region	1977										1978				
	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	
Cents per million Btu															
New England	218.5	223.4	216.2	212.5	211.3	210.2	210.8	206.8	202.3	199.0	193.5	195.3	201.0	195.3	
Middle Atlantic	230.8	227.7	223.1	220.5	218.5	220.8	225.8	213.2	209.7	208.4	207.4	207.8	209.5	207.8	
East North Central	256.3	250.9	248.6	247.1	241.6	264.7	256.5	247.5	248.3	256.4	254.1	262.0	260.0	262.0	
West North Central	298.7	193.6	186.6	179.0	185.0	186.9	185.3	187.2	174.3	177.8	183.0	189.3	179.4	189.3	
South Atlantic	217.8	211.7	210.1	207.2	199.2	211.0	211.4	209.3	205.1	203.6	198.7	198.4	198.2	198.4	
East South Central	180.5	175.7	177.7	175.9	178.3	177.7	186.5	183.8	185.2	180.7	182.0	182.8	180.6	182.8	
West South Central	200.3	198.3	194.3	187.6	188.5	184.2	192.6	192.2	191.6	184.7	183.2	182.0	187.7	182.0	
Mountain	220.6	224.9	215.3	232.5	230.7	216.4	214.3	222.9	223.3	218.9	221.3	226.1	212.3	226.1	
Pacific	235.8	235.2	235.7	240.0	240.1	240.6	241.6	241.3	242.2	243.4	242.7	250.6	256.5	250.6	
<b>NATIONAL AVG.</b>	<b>226.2</b>	<b>227.7</b>	<b>217.8</b>	<b>217.0</b>	<b>213.0</b>	<b>218.3</b>	<b>220.3</b>	<b>217.2</b>	<b>215.0</b>	<b>211.3</b>	<b>207.8</b>	<b>209.6</b>	<b>213.1</b>	<b>209.6</b>	

## Natural Gas\*\*

Region	1977										1978				
	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	
Cents per million Btu															
New England	200.1	195.9	193.9	185.8	187.2	188.1	185.3	187.9	198.2	222.1	222.1	182.1	184.2	184.3	
Middle Atlantic	155.4	154.7	144.2	165.5	162.4	165.1	162.6	154.0	155.0	153.9	159.8	159.3	161.5	162.5	
East North Central	184.7	176.7	177.3	183.5	185.9	183.7	182.3	168.4	176.2	168.4	269.3	338.6	190.6	191.7	
West North Central	96.0	102.9	104.8	106.7	106.8	109.0	103.8	110.3	117.3	109.4	119.4	122.6	118.0	118.5	
South Atlantic	85.7	76.2	74.4	91.1	100.9	91.7	94.2	102.5	94.6	93.9	98.4	97.9	102.9	112.3	
East South Central	154.7	139.7	134.3	148.5	149.9	135.7	138.6	156.0	145.9	139.1	150.1	158.4	150.2	155.2	
West South Central	113.7	116.5	122.1	122.5	123.7	123.7	122.5	120.1	120.2	129.0	128.5	124.9	137.7	135.8	
Mountain	134.9	134.4	132.9	133.3	130.7	149.8	136.9	155.5	159.2	133.8	139.2	146.5	127.5	150.2	
Pacific	204.5	208.9	200.5	211.0	218.8	217.9	219.7	220.6	225.4	212.4	208.6	220.5	220.1	220.4	
<b>NATIONAL AVG.</b>	<b>125.6</b>	<b>125.6</b>	<b>130.5</b>	<b>131.7</b>	<b>135.4</b>	<b>138.4</b>	<b>139.4</b>	<b>134.9</b>	<b>130.6</b>	<b>133.3</b>	<b>135.1</b>	<b>140.2</b>	<b>140.2</b>	<b>143.5</b>	

\*See Explanatory Note 20.

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

R=Revised data.

Source: Federal Power Commission Form 423.

## **International**

### **Petroleum Consumption**

Petroleum consumption by the 19 member International Energy Agency (IEA) rose 2.9 percent during the first 5 months of 1978 over the same 5-month period in 1977. West Germany, the United Kingdom, and the United States recorded the largest gains (6.7, 4.7, and 3.6 percent, respectively). Japan and Italy had increases of only 1.7 and 1.0 percent, respectively. Consumption in France, not a member of IEA, increased 7.0 percent during this period. The especially cold weather in Northern Europe and North America during early 1978 accounted for much of the increases in those areas.

### **Crude Oil Production**

Crude oil production by the Organization of Petroleum Exporting Countries (OPEC) rose slightly in July to 29.3 million barrels per day. OPEC production increased by 2.0 million barrels per day or 7.3 percent from January 1978. The increase was shared nearly evenly between Arab and non-Arab members of OPEC.

Canadian production fell substantially during July to 1.2 million barrels per day after the inordinately high production in June. Crude oil production in Mexico rose to a record 1.2 million barrels per day as that country's ability to transport crude oil to markets has improved.

# Petroleum Consumption

## Petroleum Consumption for Major Free World Industrialized Countries

		Total IEA*	Japan	West Germany	France**	United Kingdom	Canada	Italy***
Thousands of barrels per day								
<b>1973</b>	<b>AVG.</b>	<b>33,600</b>	<b>5,000</b>	<b>2,693</b>	<b>2,219</b>	<b>1,974</b>	<b>1,597</b>	<b>1,525</b>
<b>1974</b>	<b>AVG.</b>	<b>32,390</b>	<b>4,872</b>	<b>2,408</b>	<b>2,094</b>	<b>1,857</b>	<b>1,630</b>	<b>1,521</b>
<b>1975</b>	<b>AVG.</b>	<b>31,235</b>	<b>4,568</b>	<b>2,319</b>	<b>1,925</b>	<b>1,633</b>	<b>1,595</b>	<b>1,468</b>
<b>1976</b>	Jan	35,100	4,941	2,464	2,436	1,679	1,785	1,775
	Feb	34,400	5,246	2,497	2,486	1,865	1,754	1,743
	Mar	34,300	5,165	2,747	2,381	1,879	1,747	1,641
	Apr	31,500	4,526	2,339	2,100	1,716	1,518	1,423
	May	29,900	4,218	2,320	1,796	1,417	1,509	1,253
	June	31,300	4,429	2,393	1,593	1,416	1,560	1,236
	July	31,100	4,416	2,624	1,629	1,346	1,531	1,355
	Aug	31,100	4,461	2,515	1,668	1,296	1,585	1,372
	Sept	32,200	4,517	2,521	1,974	1,501	1,514	1,604
	Oct	32,300	4,523	2,391	1,904	1,568	1,560	1,464
	Nov	35,900	5,160	2,700	2,236	1,750	1,822	1,393
	Dec	39,100	5,846	2,571	2,712	1,869	2,008	1,779
		<b>AVG.</b>	<b>33,180</b>	<b>4,786</b>	<b>2,507</b>	<b>2,075</b>	<b>1,627</b>	<b>1,658</b>
<b>1977</b>	Jan	37,700	5,433	2,393	2,519	1,830	R1,793	1,696
	Feb	38,600	6,025	2,446	2,386	1,844	R1,912	1,823
	Mar	35,000	5,539	2,523	2,109	1,818	R1,660	1,573
	Apr	32,800	4,714	2,431	2,043	1,670	1,523	1,326
	May	31,300	4,314	2,364	1,846	1,545	1,520	1,268
	June	32,900	4,484	2,475	1,715	1,477	R1,598	1,340
	July	31,800	4,716	2,382	1,349	1,321	1,499	1,251
	Aug	32,700	4,709	2,469	1,390	1,371	1,689	1,140
	Sept	33,400	4,742	2,567	1,783	1,580	R1,522	1,502
	Oct	33,300	4,664	2,324	1,882	1,570	R1,628	1,405
	Nov	34,300	5,093	2,649	2,181	1,925	R1,720	1,605
	Dec	37,900	5,800	2,719	2,512	1,903	R1,943	1,817
		<b>AVG.</b>	<b>34,300</b>	<b>5,015</b>	<b>2,478</b>	<b>1,973</b>	<b>1,665</b>	<b>1,666</b>
<b>1978</b>	Jan	R36,600	5,245	2,461	2,646	1,852	R1,797	1,755
	Feb	R40,100	R6,180	3,013	2,601	1,929	1,976	1,859
	Mar	R37,000	R5,622	2,610	2,237	1,8708	R1,730	1,570
	Apr	R34,000	R4,805	2,577	2,045	R1,819	R1,564	1,328
	May	33,200	R4,432	2,354	2,134	R1,644	NA	1,303
	June	NA	NA	NA	1,678	NA	NA	NA
		<b>AVG.</b>	<b>36,600</b>	<b>5,241</b>	<b>2,595</b>	<b>2,221</b>	<b>1,821</b>	<b>1,763</b>

(Year to date)

\*The 19 signatory nations of the International Energy Agency (IEA) are: Austria, Belgium, Canada, Denmark, Federal Republic of Germany, Greece, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States.

\*\*Not a member of IEA.

\*\*\*Principal products only.

NA=Not available.

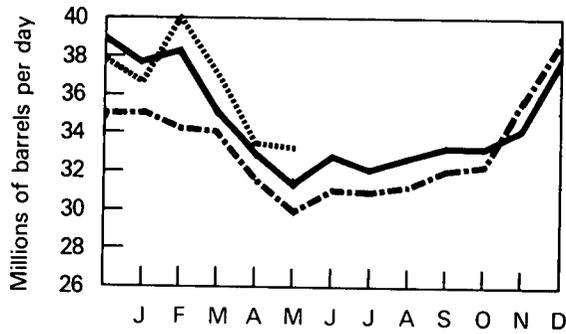
R=Revised data.

Note: Total IEA data represent domestic demand in the United States and sales of petroleum products for all other members. Sales exclude refinery fuel, refinery losses, and ocean bunkers. Experience has shown that this total IEA quantity is between 93 and 95 percent of total IEA consumption.

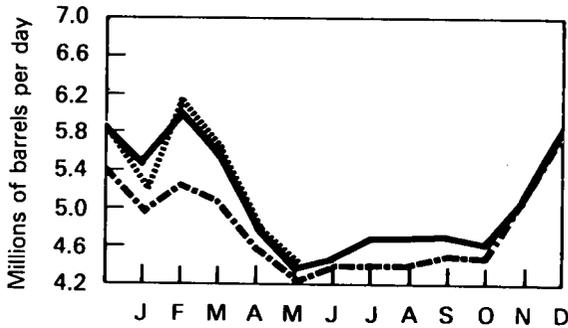
Source: Central Intelligence Agency, National Foreign Assessment Center, *International Energy Statistical Review*, 6 September 1978.

# Petroleum Consumption

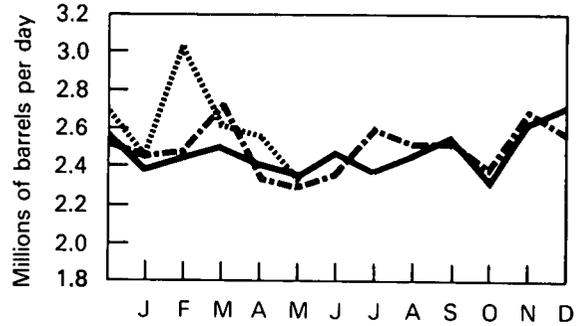
Total IEA



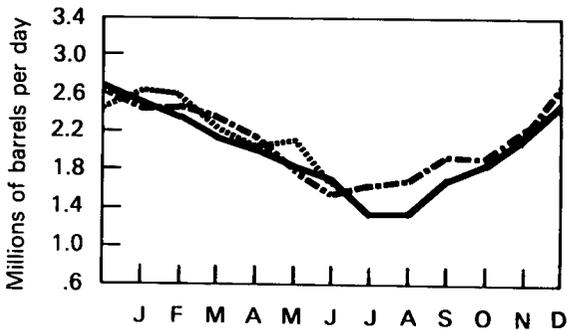
Japan\*



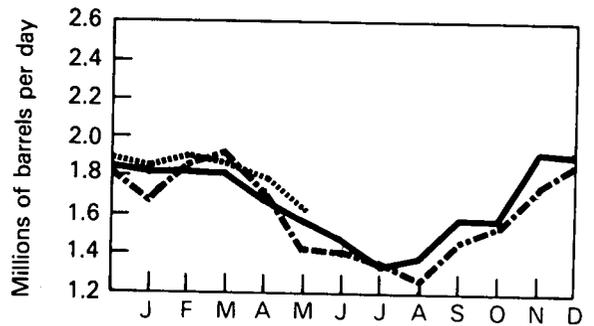
West Germany



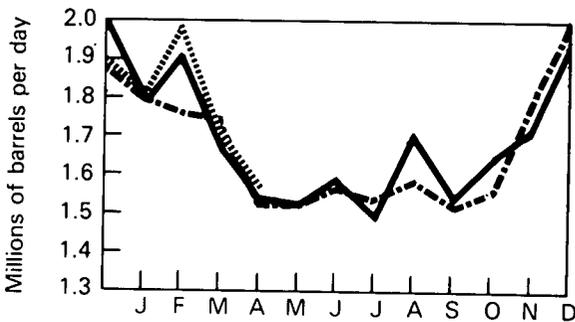
France\*\*



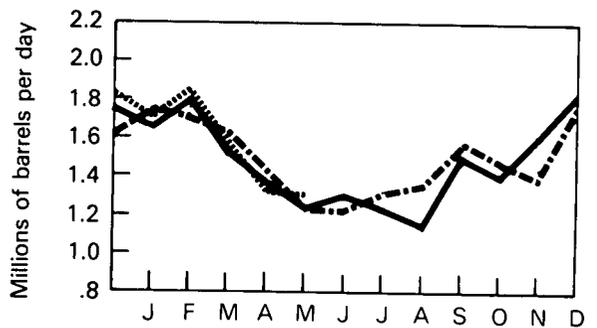
United Kingdom



Canada



Italy\*\*\*



\*Excludes liquefied petroleum gases and condensates.

\*\*Not a member of IEA.

\*\*\*Principal products only.

†Excludes the United States.

--- 1976  
 — 1977  
 ..... 1978

## Crude Oil Production for Major Petroleum Exporting Countries—July 1978

Country	Production							Maximum Sustainable Production Capacity	Production Shut in
	1972 Year	1973 Year	1974 Year	1975 Year	1976 Year	1977 Year	1978 July**	1978 July	1978 July
Thousands of barrels per day									Percent
Algeria	1,040	1,070	960	960	990	1,040	1,000	1,080	7.4
Iraq	1,465	2,020	1,970	2,260	2,415	2,330	2,400	3,000	20.0
Kuwait*	3,283	3,020	2,545	2,085	2,145	1,970	1,950	3,300	40.9
Libya	2,239	2,175	1,520	1,480	1,935	2,080	2,100	2,300	8.7
Qatar	482	570	520	440	495	430	490	600	18.3
Saudi Arabia*	6,016	7,595	8,480	7,075	8,575	9,200	7,420	10,400	28.7
United Arab Emirates	1,202	1,535	1,680	1,665	1,935	2,010	1,840	2,375	22.5
<b>Subtotal: Arab OPEC</b>	<b>15,727</b>	<b>17,985</b>	<b>17,675</b>	<b>15,965</b>	<b>18,490</b>	<b>19,060</b>	<b>17,200</b>	<b>23,055</b>	<b>25.4</b>
Ecuador	78	210	175	160	185	180	230	225	***
Gabon	125	150	200	225	225	230	220	225	2.2
Indonesia	1,080	1,340	1,375	1,305	1,505	1,690	1,650	1,700	2.9
Iran	5,023	5,860	6,020	5,350	5,885	5,660	5,800	6,500	10.8
Nigeria	1,815	2,055	2,255	1,785	2,070	2,100	1,910	2,300	17.0
Venezuela	3,219	3,365	2,975	2,345	2,295	2,240	2,290	2,600	11.9
<b>Subtotal: Non-Arab OPEC</b>	<b>11,340</b>	<b>12,980</b>	<b>13,000</b>	<b>11,170</b>	<b>12,165</b>	<b>12,100</b>	<b>12,100</b>	<b>13,550</b>	<b>10.7</b>
<b>TOTAL OPEC</b>	<b>27,067</b>	<b>30,965</b>	<b>30,675</b>	<b>27,135</b>	<b>30,655</b>	<b>31,160</b>	<b>29,300</b>	<b>36,605</b>	<b>20.0</b>
Canada	1,540	1,800	1,695	1,460	1,300	1,320	1,180	1,800	34.4
Mexico	440	465	580	720	850	980	1,210	1,500	19.3
<b>TOTAL OPEC, Canada, Mexico</b>	<b>29,047</b>	<b>33,230</b>	<b>32,950</b>	<b>29,315</b>	<b>32,805</b>	<b>33,460</b>	<b>31,690</b>	<b>39,905</b>	<b>20.6</b>
<b>TOTAL WORLD</b>	<b>50,550</b>	<b>55,755</b>	<b>55,875</b>	<b>52,990</b>	<b>57,340</b>	<b>59,520</b>	<b>59,480</b>		

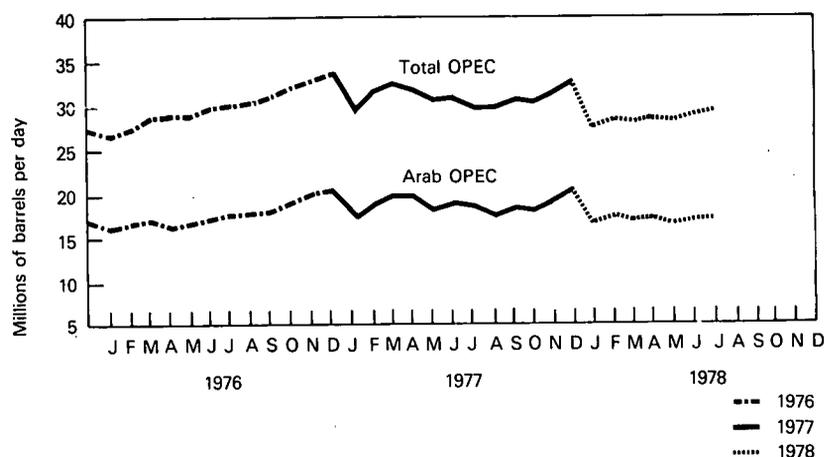
\*Includes about one-half of the former Kuwait-Saudi Arabia Neutral Zone. Production in July 1978 amounted to approximately 440,000 barrels per day.

\*\*Estimated.

Sources: Central Intelligence Agency, National Foreign Assessment Center, *International Energy Statistical Review*, 6 September 1978, National Energy Board of Canada, and U.S. Department of Energy.

\*\*\*Production may exceed capacity for brief periods of time.

OPEC Countries Crude Oil Production



# Definitions

## Base Production Control Level

1. Prior to February 1, 1976: the total number of barrels of domestic crude oil produced and sold from a particular property in the same month of 1972. If domestic crude oil was not produced and sold from that property in every month of 1972, the total number of barrels of domestic crude oil produced and sold from that property in 1972, divided by 12.

2. Effective February 1, 1976: the total number of barrels of old crude oil produced and sold from the property during calendar year 1975, divided by 365, and multiplied by the number of days in the particular month during 1975. A producer may elect to use the total number of barrels of crude oil produced and sold from the property during calendar year 1972, divided by 366, and multiplied by the number of days in the particular month during 1972.

## Ceiling Price

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

## Controlled Crude Oil

Crude oil that was domestically produced prior to February 1, 1976, subject to the ceiling price for crude oil. For a particular property which is not a stripper well lease, the volume of controlled oil equals the base production control level minus an amount of released oil equal to the new oil production from that property.

## Crude Oil Domestic Production

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

## Crude Oil Entitlement Value

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

## Crude Oil Imports

The volume of crude oil imported into the 50 States and the District of Columbia, including imports from U.S. territories, but excluding imports of crude oil into the Hawaiian Foreign Trade Zone.

## Crude Oil Input to Refineries

Total crude oil input to crude oil distillation units and other units for processing.

## Crude Oil Stocks

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

## Cumulative Deficiency

A measure of the cumulative deficit of production below the base production control level after the first month in which new oil was produced and sold from a specific property.

## Dealer Tankwagon (DTW) Price

The price at which a dealer purchases gasoline from a distributor or a jobber.

## Distillate Fuel Oil

The lighter fuel oils distilled off during the refining process. Included are products known as ASTM grades Nos. 1 and 2 heating oils, diesel fuels, and No. 4 fuel oil. The major uses of distillate fuel oils include heating, fuel for on- and off-highway diesel engines, and railroad diesel fuel. Minor quantities of distillate fuel oils produced and/or held as stocks at natural gas processing plants are not included in this series.

## Domestic Demand for Specific Refined Petroleum Products

A calculated value, computed as domestic production plus net imports (imports less exports), less the net increase in primary stocks. It, therefore, represents the total disappearance of refined products from primary supplies. (See definition for Domestic Demand for Total Refined Petroleum Products.)

## Domestic Demand for Total Refined Petroleum Products

Total domestic demand for petroleum products is calculated as inputs to refineries, plus estimated refinery gain, plus hydrogen input, plus natural gas plant liquids production, plus direct use of crude as fuel, plus product imports, less product exports, plus or minus stock change of products. (See definition for Domestic Demand for Specific Refined Petroleum Products.)

## Electricity Production

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

## Entitlement Position

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

### **Entitlement Price**

The price of an entitlement, fixed by ERA, is the exact differential as reported for the month between the weighted average delivered cost per barrel to refiners of both imported crude oil and stripper crude oil, and the weighted average delivered cost per barrel to refiners of "old oil," less 21 cents.

### **Firm Natural Gas Service**

High priority gas service in which the pipeline company is under contract to deliver a specified volume of gas to the customer on a non-interruptible basis. Residential and small commercial facilities usually fall into this category.

### **Full Serve**

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

### **Full Service Station**

A service station selling motor fuels and oils, tires, batteries and accessories (TBA), and performing motor vehicle repairs.

### **Interruptible Natural Gas Service**

Low priority gas service in which the pipeline company has the contractual option to temporarily terminate deliveries to customers by reason of claim of firm service customers or higher priority users. Large commercial facilities, industrial users, and electric utilities usually fall into this category.

### **Jet Fuel**

Includes both naphtha-type and kerosene-type fuels meeting standards for use in aircraft turbine engines. Although most jet fuel is used in aircraft, some is used for other purposes, such as for generating electricity in gas turbines.

### **Landed Cost**

The cost of imported crude oil equal to actual cost of the crude oil at point of origin plus transportation cost to the United States.

### **Limited Work Authorization**

A Limited Work Authorization (LWA) may be granted by the Atomic Safety and Licensing Board of the Nuclear Regulatory Commission to an applicant who wants to construct a nuclear powerplant providing that the project has been cleared for all requirements of the National Environmental Protection Act and that the geologic and topographic suitability of the reactor site has been found satisfactory. The LWA allows an applicant to proceed with site excavation, install temporary construction and service facilities, construct service roads, and erect structures and components not subject to normal quality assurance inspections. It may save a utility from 6 to 8 months in total construction time. However, because the ultimate approval of a construction permit is based on all evidence

revealed during the licensing hearings, the successful award of an LWA is no guarantee that a construction permit will also be granted.

### **Line Miles of Seismic Exploration**

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

### **Lower Tier Crude Oil**

Old crude oil.

### **Lower Tier Ceiling Price Determination**

The lower tier ceiling price for a particular grade of domestic crude oil in a particular field is the sum of (1) the highest posted price at 6 a.m., local time, May 15, 1973, for transactions in that grade of crude oil in that field; or if there was no posted price in that field for that grade of domestic crude oil, the related price for that grade of domestic crude oil which is most similar in kind and quality in the nearest field for which prices were posted; and (2) the amount mandated in the Monthly Price Adjustment Schedules published by ERA in the *Federal Energy Guidelines* (Part 212.77-13847 Appendix).

### **Major Brand**

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

### **Motor Gasoline Production**

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

### **Motor Gasoline Stocks**

Primary motor gasoline stocks held by gasoline producers. Stocks at natural gas processing plants are not included.

### **National Domestic Crude Oil Supply Ratio**

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

### **National Old Oil Supply Ratio**

Old oil receipts, adjusted for small refiner bias and exemptions, divided by crude runs to stills adjusted for entitlements issued for imported refined products.

### **Natural Gas Liquids (NGL)**

Products obtained from natural gasoline plants, cycling plants and fractionators after processing the natural gas. Included are ethane, liquefied petroleum (LP) gases (propane, butane, and propane-butane mixtures), natural gasoline, plant condensate, and minor quantities of finished products such as gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

## **New Crude Oil**

1. Prior to February 1, 1976: the total number of barrels of domestic crude oil produced and sold in a specific month, less the base production control for that month and less the current cumulative deficiency.
2. Effective February 1, 1976: the total number of barrels of domestic crude oil produced and sold in a specific month, less the property's base production control level for that month and less the current cumulative deficiency since February 1, 1976.

## **Nonbranded Independent Marketer**

A firm which is engaged in the marketing or distribution of refined petroleum products, but which (1) is not a refiner, (2) is not a firm which controls, is controlled by, is under common control with, or is affiliated with a refiner (other than by means of a supply contract), and (3) is not a branded independent marketer.

## **Old Crude Oil**

1. Prior to February 1, 1976: the total number of barrels of crude oil produced and sold from a property in a specific month, less the total number of barrels of new crude oil for that property in that month and less the total number of barrels of released crude oil for that property in that month.
2. Effective February 1, 1976: the total number of barrels of crude oil produced and sold from a property in a specific month, less the total number of barrels of new crude oil for that property in that month.

## **Primary Stocks of Refined Petroleum Products**

Stocks held at refineries, bulk terminals, and pipelines. They do not include stocks held in secondary storage facilities, such as those held by jobbers, dealers, independent marketers, and consumers.

## **Property**

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

## **Refined Petroleum Products Imports**

Imports (into the 50 States and the District of Columbia) of motor gasoline, naphtha-type jet fuel, kerosene type jet fuel, kerosene, distillate fuel oil, residual fuel oil, liquefied petroleum gases, petrochemical feedstocks, special naphtha, lubricants, waxes, asphalt, plant condensate, and

unfinished oils. Included are imports of refined products for bonded and military use, and imports from U.S. territories and the Hawaiian Foreign Trade Zone.

## **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 costs and represents the amount of crude cost which refiners may pass on to their customers.

## **Released Crude Oil**

An amount of crude oil produced from a property in a particular month prior to February 1, 1976, which is equal to the total number of barrels of new crude oil produced and sold from that property in that month. The amount of released crude oil for a property in a particular month shall not exceed the base production control level for that property in that month.

## **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 ASTM grades Nos. 5 and 6 oil, heavy diesel oil, Navy Special Oil, Bunker C oil, and acid sludge and pitch used as refinery fuels. Residual fuel oil is used for the production of electric power, for heating, and for various industrial purposes.

## **Rotary Rig**

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

## **Self Serve**

Motor vehicle services are not provided by attendants.

## **Separative Work Unit (SWU)**

The measure of work required to produce enriched uranium from natural uranium. Enrichment plants separate natural uranium feed material into two groups, an enriched product group with a higher percentage of U-235 than the feed material and a depleted tails group with a lower percentage of U-235 than the feed material. To produce 1 kilogram of enriched uranium containing 2.8 percent U-235, and a depleted tails assay containing 0.3 percent U-235, it requires 6 kilograms of natural uranium feed and 3 kilograms of separative work units (3 SWU).

## **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.

### **Stripper Well Property**

A property whose average daily production of crude oil per well (excluding condensate recovered in nonassociated production) did not exceed 10 barrels per day during any preceding consecutive 12-month period beginning after December 31, 1972.

### **Synthetic Natural Gas (SNG)**

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

### **Uncontrolled Crude Oil**

That portion of domestic crude oil production including new, released, and stripper oil which, before February 1, 1976, could be sold at a price exceeding the ceiling price.

### **Unrecouped Costs**

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

### **Upper Tier Crude Oil**

Effective February 1, 1976, upper tier crude oil included new crude oil and crude oil produced from a stripper well lease. Effective September 1, 1976, upper tier crude oil includes new crude oil only.

### **Upper Tier Ceiling Price Determination**

The upper tier ceiling price for a particular grade of domestic crude oil in a particular field is (1) the highest posted price on September 30, 1975, for transactions in that grade of crude oil in that field in September 1975, or if there was no posted price in that field for that grade of domestic crude oil, the related price for that grade of domestic crude oil which is most similar in kind and quality in the nearest field for which prices were posted; less (2) the amount mandated in the Monthly Price Adjustment Schedules published by ERA in the *Federal Energy Guidelines* (Part 212.77 .13847 Appendix).

### **Well**

A hole drilled for the purpose of finding or producing crude oil or natural gas or providing services related to the production of crude oil or natural gas. Wells are classified as oil wells, gas wells, dry holes, stratigraphic tests, or service wells. This is a standard definition of the American Petroleum Institute.

# Explanatory Notes

1. Domestic production of energy includes production of crude oil and lease condensate, natural gas (wet), coal (anthracite, bituminous, and lignite), electricity output from hydroelectric and nuclear powerplants and industrial hydroelectric power production as well as geothermal power. The volumetric data were converted to approximate heat contents (Btu-values) of the various energy sources using conversion factors listed in the Units of Measure.

2. U.S. imports of fossil fuels include imports of crude oil, refined petroleum products, natural gas (dry), coal (bituminous and lignite) and coke. Does not include imports of petroleum for the Strategic Petroleum Reserve.

3. Domestic consumption includes domestic demand for refined petroleum products, consumption of coal (anthracite, bituminous, and lignite, and net coke imports) and natural gas (dry), electricity output from hydroelectric and nuclear powerplants, industrial hydroelectric power production, net imports of electric power, and production of geothermal power. Approximate heat contents (Btu-values) were derived using conversion factors listed in the Units of Measure. Electricity net imports were converted using the Btu-content of hydroelectric power. 1978 electricity net imports were estimated on the basis of the net import level for 1977.

4. U.S. exports of fossil fuels include exports of coal (bituminous and lignite), coke, crude oil, refined petroleum products, and natural gas (dry).

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

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

7. The Federal Energy Administration and Federal Power Commission began the coordinated collection and compilation of monthly underground storage information from all underground storage operators in the United States in October 1975. Initial storage information reported was for the month of September 1975. Comparable

monthly information for total U.S. storage operations is not available for prior periods.

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

8. Bituminous coal and lignite consumption is calculated by EIA from information provided by the Federal Energy Regulatory Commission, Department of Commerce, and reports from selected manufacturing industries and retailers. Domestic consumption data in this series, therefore, approximate actual consumption. This is in contrast to domestic demand reported for petroleum products, which is a calculated value representing total disappearance from primary supplies.

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

9. Quantities of uranium are measured by various units at different stages in the fuel cycle. At the mill, quantities are usually expressed as pounds or short tons of  $U_3O_8$ . After the conversion stage, the units of measure are either metric tons (MT) of  $UF_6$  or metric tons of uranium (MTU). The later designation expresses only the elemental uranium content of  $UF_6$ .

Following the enrichment stage, the same units are used, but the U-235 content has been enhanced at the expense of loss of material. At the fabrication stage,  $UF_6$  is changed to  $UO_2$ , and the standard unit of measure is the MTU. We have chosen to present all uranium quantities as MTU; conversion factors to other units are given in the Units of Measure section.

10. The units used to describe power generation at nuclear plants are based on the watt, which is a unit of power. (Power is energy produced per unit of time.) As with fossil-fueled plants, nuclear plants have three design power ratings. The thermal rating (expressed in thermal megawatts) is the rate of heat production by the reactor core. The gross electrical rating (expressed in electrical megawatts, MWe) is the generator capacity at the stated thermal rating of the plant. The net electrical rating (also expressed in MWe) is the power available as input to the electrical grid after subtracting the power needed to operate the plant. (A typical nuclear plant needs 5 percent of its generated electricity for its own operation.)

The electrical energy produced by a plant is expressed either as megawatt hours (MWh) or kilowatt hours (KWh). Tables in the nuclear section show generated electricity as average electrical power. This enables a more direct comparison to design capacity and to previous

months' performances. To obtain the quantity of electricity generated during a given time period (in kilowatt hours), multiply the average power level (in kilowatts) by the number of hours during that period.

The energy extracted from uranium fuel is expressed as thermal megawatt days per metric ton of uranium (MWD/MTU). The production of plutonium in the fuel rods is expressed as kilograms of plutonium per metric ton of discharged uranium (kg/MTU).

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

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

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

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

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

14. Prior to February 1976, the domestic crude oil wellhead price represented an estimate of the average of

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

15. 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.

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

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

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

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

19. Prior to January 1975, diesel fuel prices were obtained from retail gasoline dealers that also sold diesel fuel. Beginning in January 1975, the diesel fuel survey was expanded to include selected truckstops plus additional retail gasoline dealers that sold diesel fuel. Selling price estimates are based on a survey of 31 cities. Margins are based on a survey of 10 cities.

20. The weighted average utility fuel cost for the total United States includes distillate fuel oil delivered to utilities whereas the regional breakdown for residual fuel oil prices represents only No. 6 fuel oil prices.

21. The major brand category includes those stations using the primary brand of a major refiner. Primary brands are the brand names or logos that are associated most commonly with the 15 integrated major refiners as defined in the Emergency Petroleum Allocation Act of 1973. These refiners are: Amoco, Atlantic Richfield, Chevron, Cities Service, Contrinental, Exxon, Getty, Gulf, Marathon, Mobil, Phillips, Shell, Sun, Texaco, and Union Oil of California. The nonmajor brand category includes all the other stations in the survey. Stations using secondary brands of major refiners are included in the nonmajor brand category, as these stations typically price their gasoline to compete with independent refiner and marketer brand stations. Stations owned and operated directly by refiners are not included in this survey.

# Units of Measure

## Weight

1 metric ton	<i>contains</i>	1,000 kilograms or 2,204.62 pounds
1 long ton	<i>contains</i>	2,240 pounds
1 short ton	<i>contains</i>	2,000 pounds

## Conversion Factors for Crude Oil

1 barrel	<i>contains</i>	42 gallons
1 barrel	<i>weighs</i>	0.136 metric tons (0.150 short tons)
1 metric ton	<i>contains</i>	7.33 barrels
1 short ton	<i>contains</i>	6.65 barrels

## Conversion Factors for Uranium

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

## Approximate Heat Content of Various Fuels

	1972	1973	1974	1975	1976	1977-78
<b>Bituminous coal and lignite</b>						
Production	Btu/short ton 24,050,000	24,010,000	23,730,000	23,200,000	23,150,000	22,900,000
Exports	Btu/short ton 27,000,000	27,000,000	27,000,000	27,000,000	27,000,000	27,000,000
Imports	Btu/short ton 25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
Consumption	Btu/short ton 23,750,000	23,650,000	23,070,000	22,800,000	22,750,000	22,565,000
Coke	Btu/short ton 26,000,000	26,000,000	26,000,000	26,000,000	26,000,000	26,000,000
Anthracite	Btu/short ton 25,400,000	25,400,000	25,400,000	25,400,000	25,400,000	25,400,000
Crude petroleum, production	Btu/barrel 5,800,000	5,800,000	5,800,000	5,800,000	5,800,000	5,800,000
<b>Petroleum products</b>						
Consumption, average	Btu/barrel 5,503,200	5,517,000	5,506,100	5,495,900	5,495,900	5,495,000
Imports	Btu/barrel 6,028,349	6,001,364	5,975,463	5,938,220	5,975,452	5,903,000
Exports	Btu/barrel 5,700,739	5,724,014	5,809,824	5,713,363	5,696,315	5,779,000
Natural gas liquids	Btu/barrel 4,049,256	4,032,483	4,024,000	3,997,000	4,003,600	3,935,000
Natural gas, wet	Btu/cubic foot 1,100	1,093	1,097	1,095	1,094	1,090
Natural gas, dry	Btu/cubic foot 1,027	1,021	1,024	1,021	1,020	1,015
Hydropower	Btu/kWh 10,379	10,389	10,442	10,406	10,406	10,400
Nuclear power	Btu/kWh 10,660	10,660	10,660	10,660	10,660	10,660
Geothermal power	Btu/kWh 21,690	21,690	21,690	21,690	21,690	21,690
<b>Petroleum Products:</b>						
Natural gasoline	Btu/barrel 4,620,000					
Liquefied gases	4,011,000					
Gasoline (incl. aviation)	5,248,000					
Special naphtha	5,248,000					
Jet fuel, naphtha-type	5,355,000					
Jet fuel, kerosene-type	5,670,000					
Kerosene	5,670,000					
Distillate fuel oil	5,825,000					
Residual fuel oil	6,287,000					
Still gas	6,000,000					
Lubricants	6,065,000					
Waxes	5,537,000					
Petroleum coke	6,024,000					
Asphalt and road oil	6,636,000					

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CRN 780927-00430  
DAR-M764/M(7810)  
**Monthly Energy Review**