



# **Short-Term Energy Outlook**

February 1998 (Released February 6, 1998)

Energy Information Administration

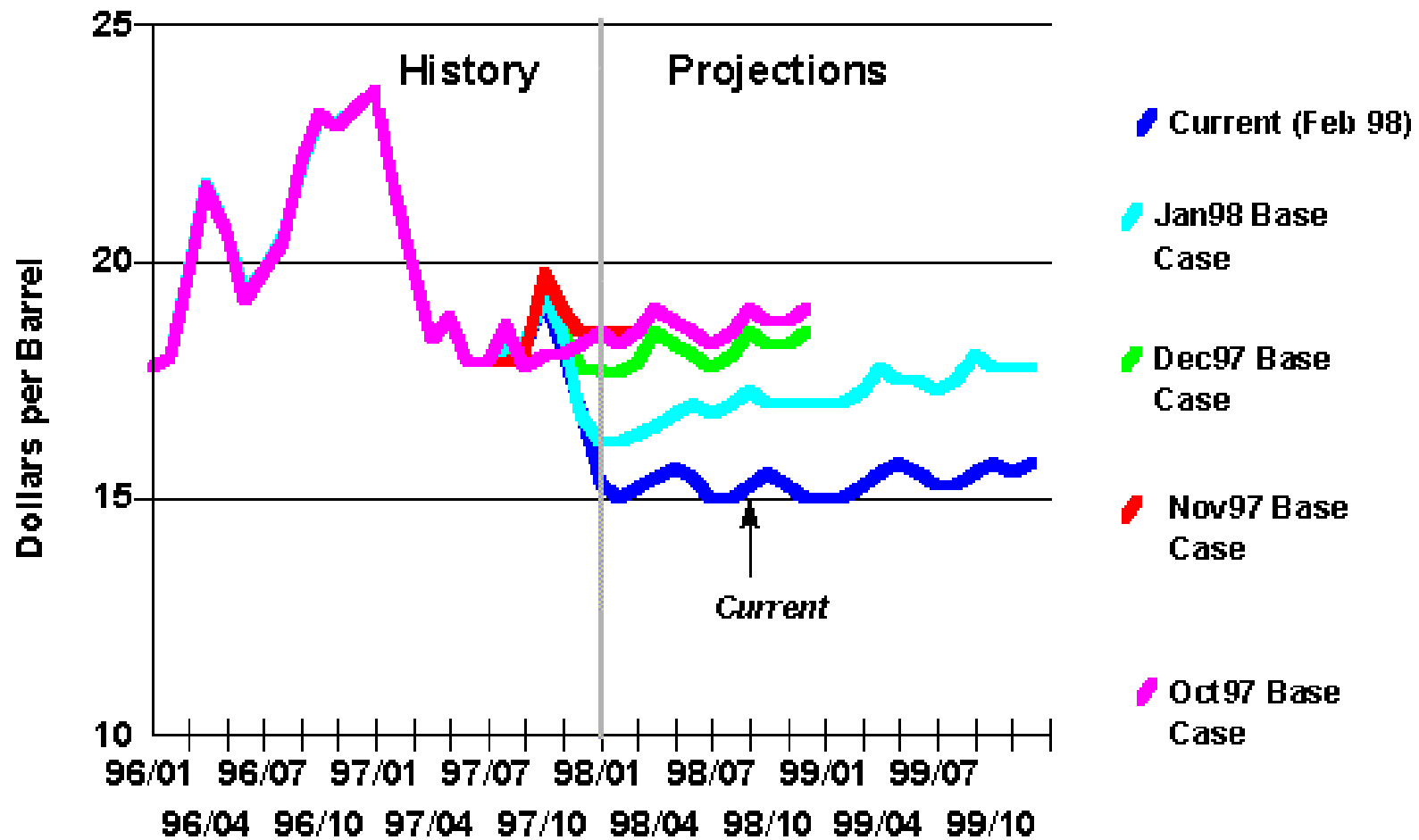
# February 1998

## *Highlights*

Here are the salient points to be emphasized in this month's Outlook:

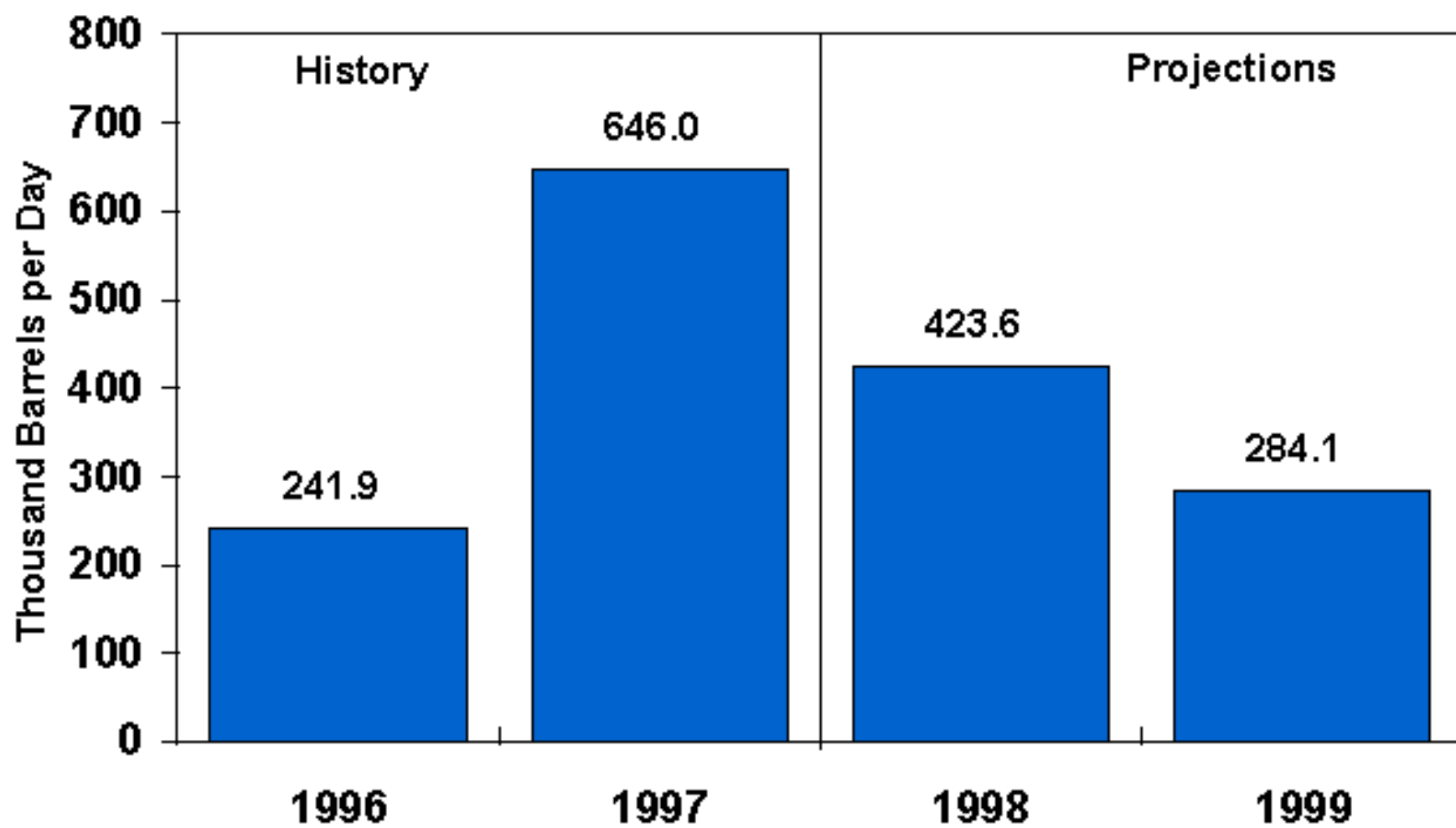
- World oil price projections are set substantially below previous Outlooks. The base case forecast does not include a monthly average U.S. cost of imported crude oil above \$16 per barrel ([Figure 1](#)). Slack demand now due to weak heating demand, anticipated additional weakness from economies affected by economic problems in Asia, and expected increases in supply inside and outside of OPEC mean excess supply worldwide. Continued world stock builds seem likely ([Figure 2](#)). While the base case outlook places monthly oil prices in the \$15-\$16 per barrel range through the end of 1999, as usual significant uncertainty about particular monthly values is to be accounted for (see [Figure 3](#)).
- U.S. petroleum inventories are relatively high now, partly because of lower-than-expected demand due to the mild weather conditions ([Figures 4 and 5](#)). Weather data estimated through January 1998 indicate that population-weighted heating degree-days were approximately 3 percent below normal for the four-month period ended January 31, with January alone being 14 percent below normal. As a result, heating fuel demand levels have fallen below those anticipated prior to the beginning of the heating season. The January weather estimates have contributed to a noticeable reduction in demands expected for the first quarter, especially for natural gas ([Figure 6](#)). Colder weather during what remains of winter could alter this picture somewhat, but, except in an extreme case, would not be likely to change the overall market picture much. This picture includes sharply lower fuel prices.
- For this Outlook, first quarter 1998 heating fuel prices are expected to be: 14 percent (14 cents per gallon) lower than Q1 1997 for residential heating oil ([Figures 7 and 8](#)); 12 percent (14 cents per gallon) lower for propane; 2 percent (13 cents per thousand cubic feet) lower for natural gas; and 1.1 percent lower for electricity. Combined with the relatively weak or lower demands already seen this year, these lower prices mean that typical residential customers using heating oil or propane for heat may ultimately see heating fuel bills for the entire season (October through March) that are, in comparison to the 1996-1997 season, about 10 percent and 12 percent lower, respectively ([Figure 9](#)). For natural gas and electricity, average bills could be up by about 1 percent and 2 percent respectively, as it may take beyond the heating season for current fuel cost reductions to filter into residential prices under regulated regimes and because gas costs were up sharply for the first half of the fourth quarter.

# Figure 1. Recent World Oil Price Projections



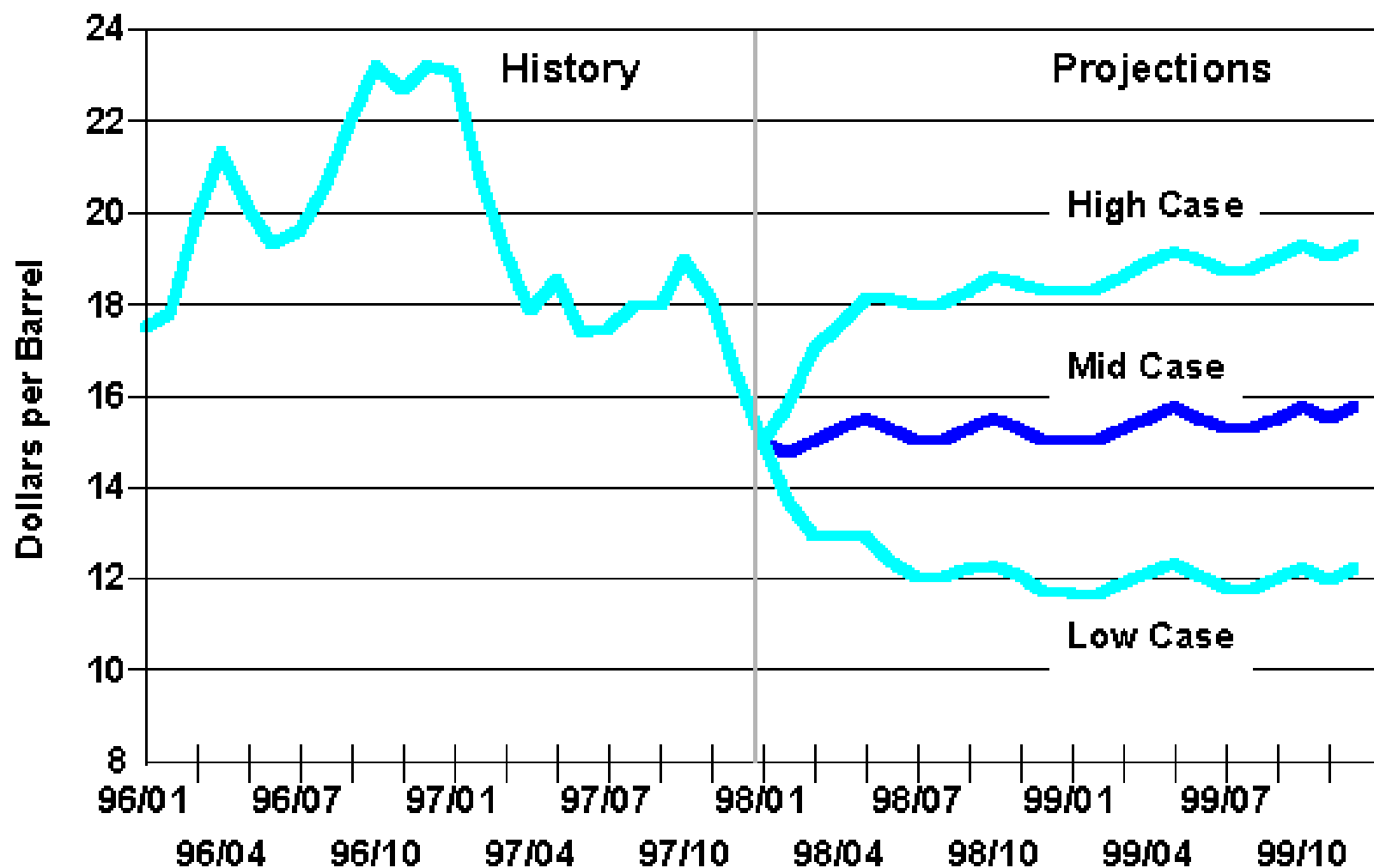
Source: Energy Information Administration, Short-Term Energy Model, February 1998

## Figure 2. OECD Commercial Stock Builds



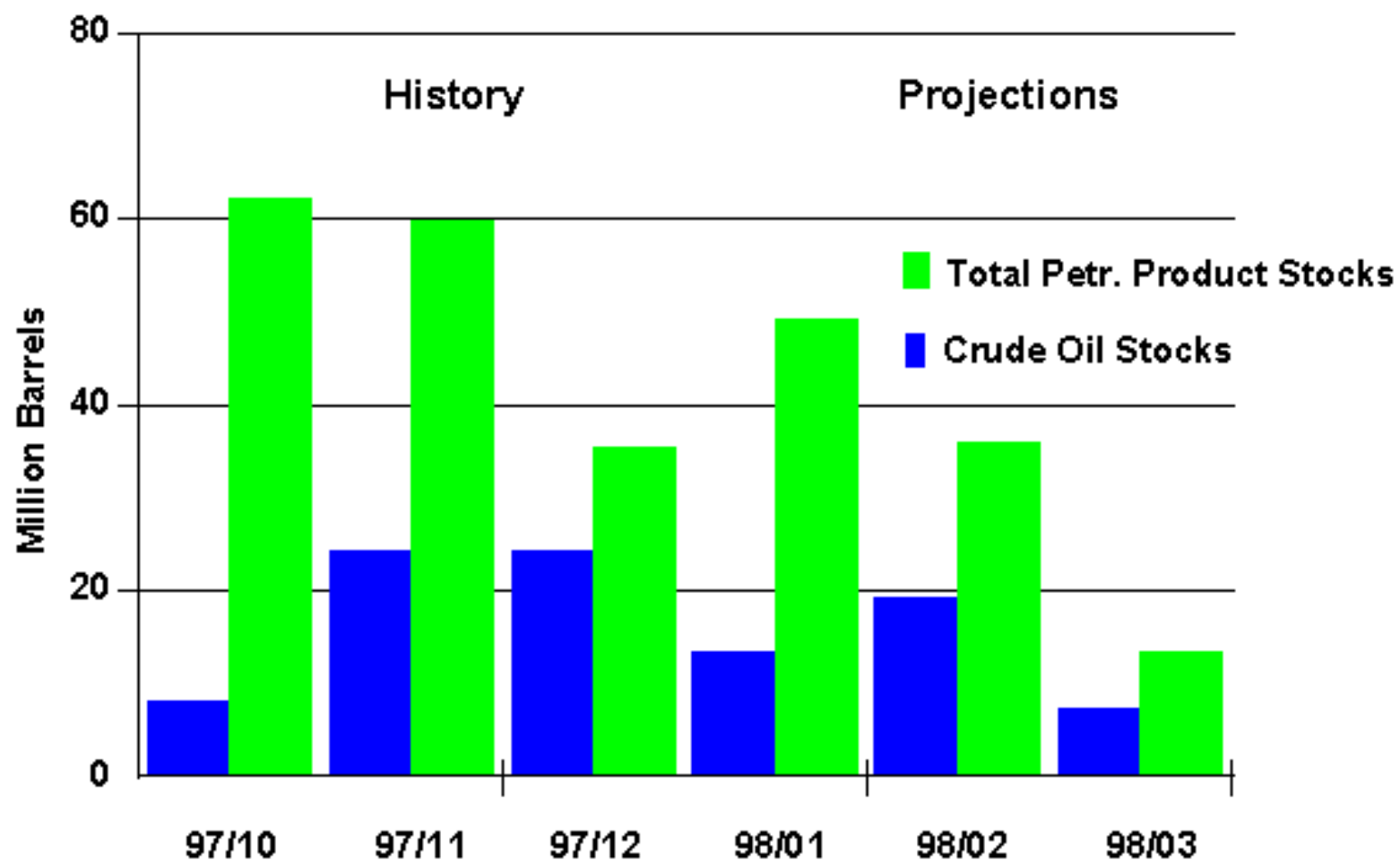
Source: Energy Information Administration, Energy Markets and Contingency Information Division

## Figure 3. World Oil Price Cases



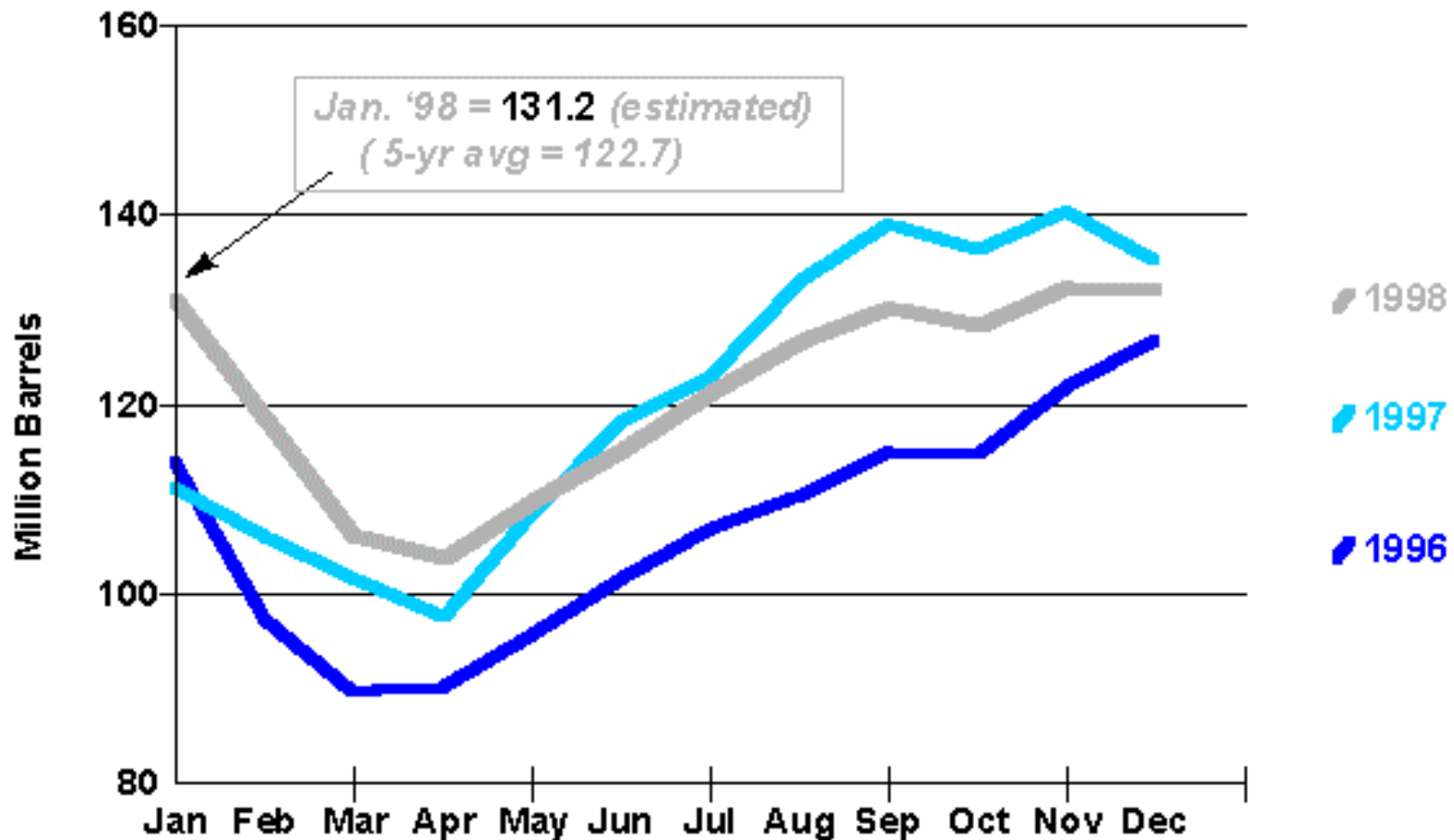
*Source: Energy Information Administration, Short-Term Energy Model, February 1998*

## Figure 4. Crude and Oil Product Stocks (Change from Previous Year)



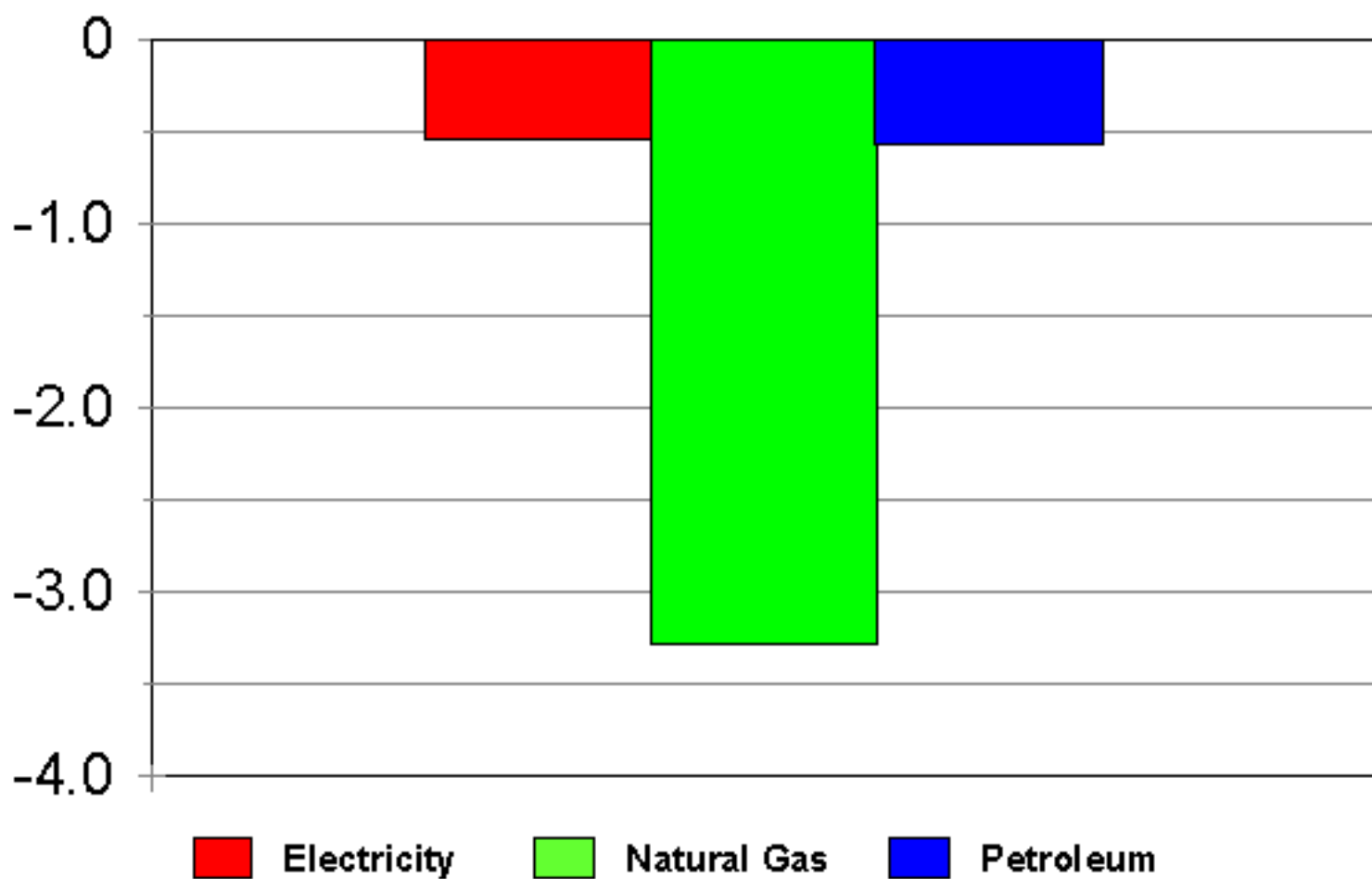
Source: Energy Information Administration, Short-Term Energy Model, February 1998

## Figure 5. Total Distillate Fuel Stocks



Source: Energy Information Administration, Short-Term Energy Model, February 1998

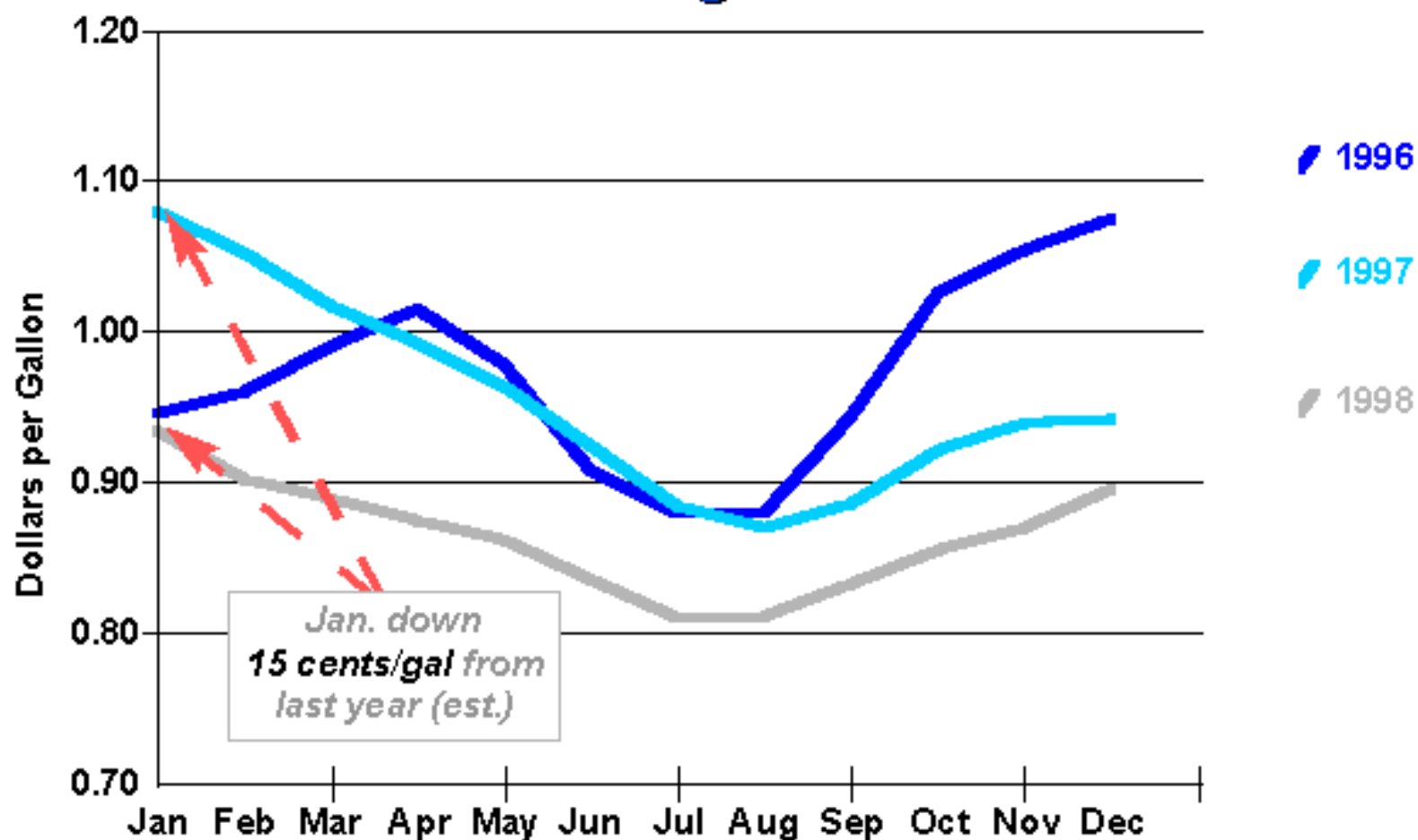
**Figure 6. Projected Fuel Demand Growth for Q1 1998**  
(Percent Change From Previous Outlook)



*Source: Energy Information Administration, Short-Term Energy Model, February 1998*

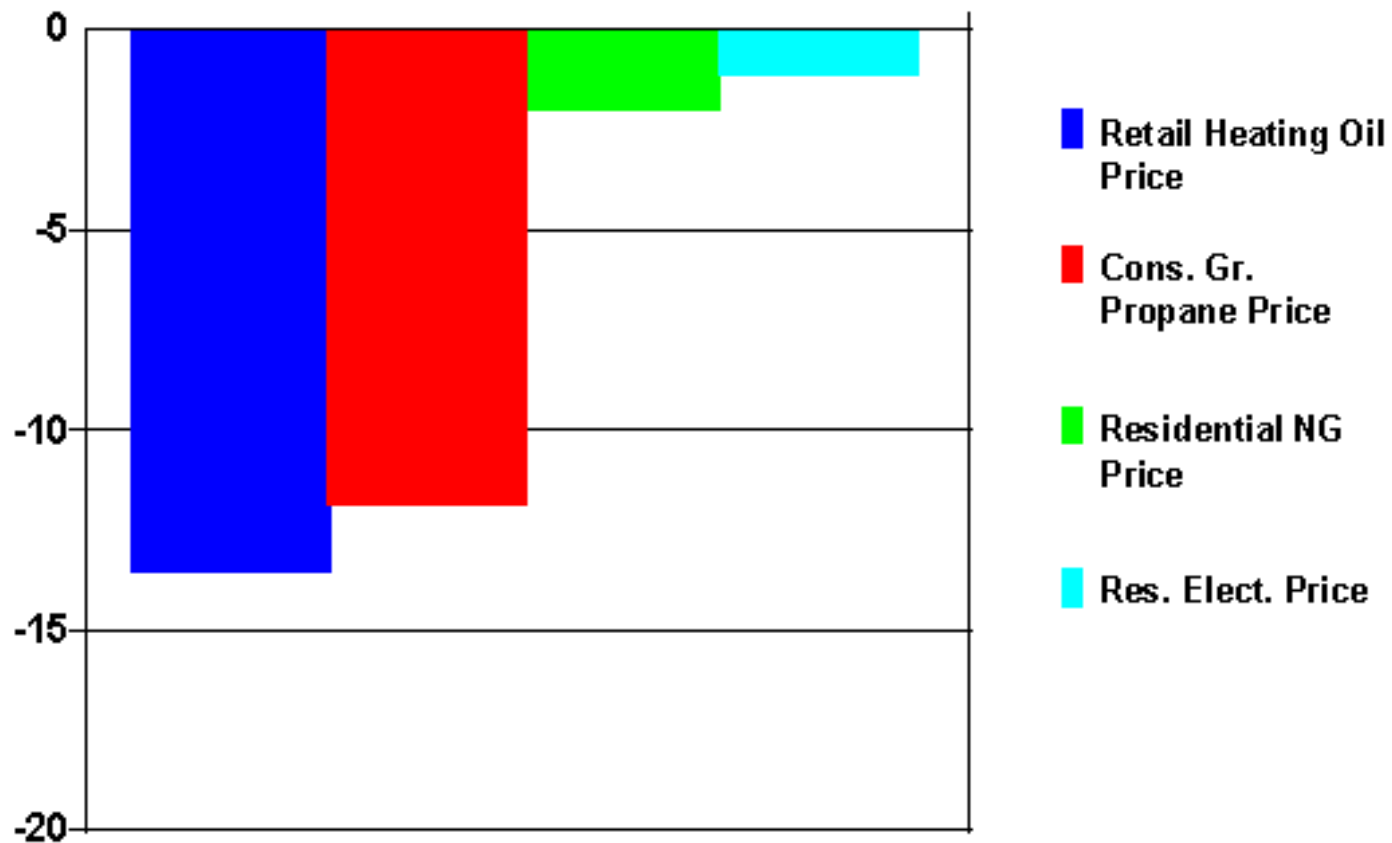


## Figure 7. U.S. Average Residential Heating Oil Price



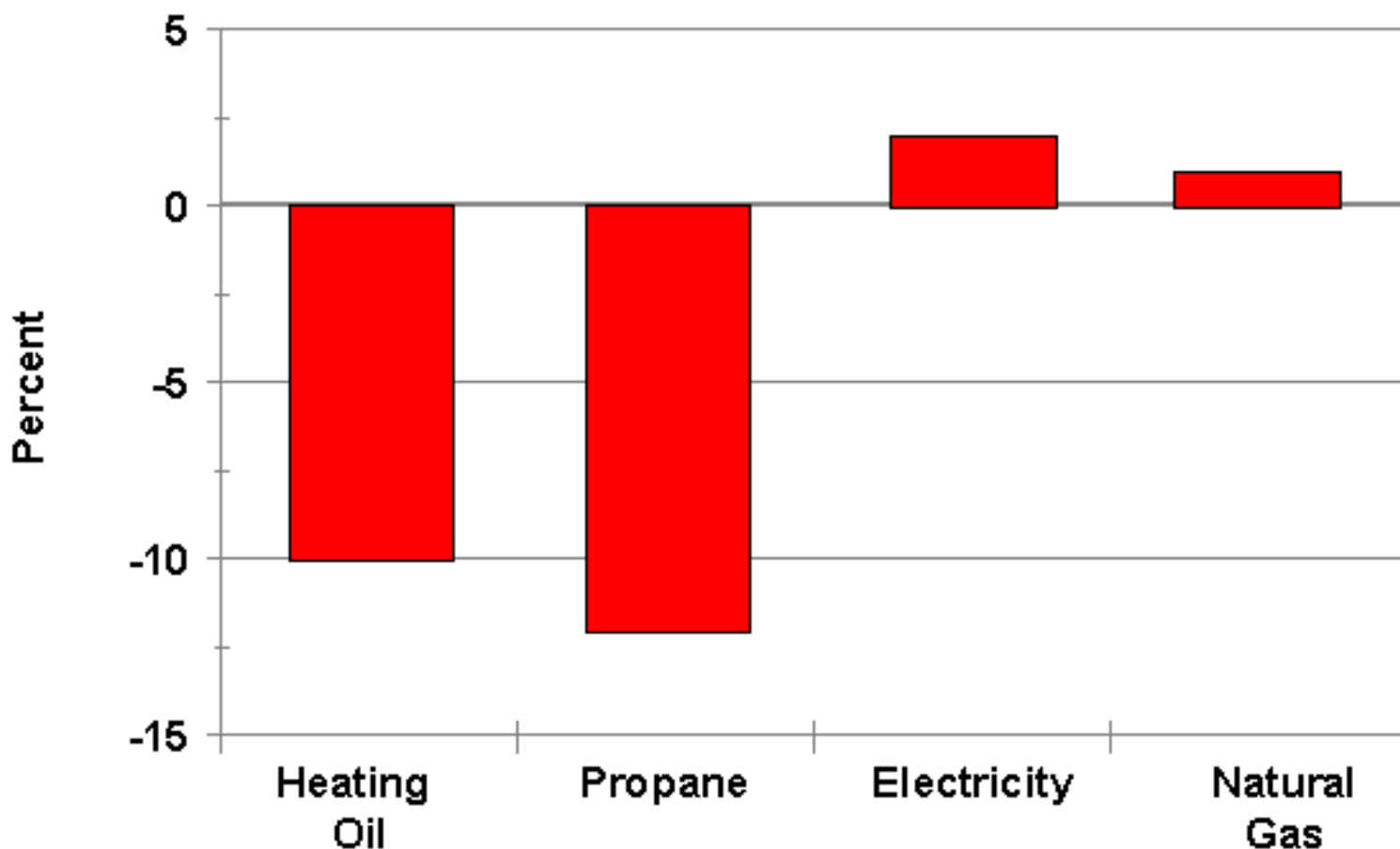
Source: Energy Information Administration, Short-Term Energy Model, February 1998

**Figure 8. Fuel Price Changes for Q1 1998**  
(Percent Change From Previous Year)



*Source: Energy Information Administration, Short-Term Energy Model, February 1998*

**Figure 9. Projected Household Heating Bills**  
(Percent Change from Previous Year\*)



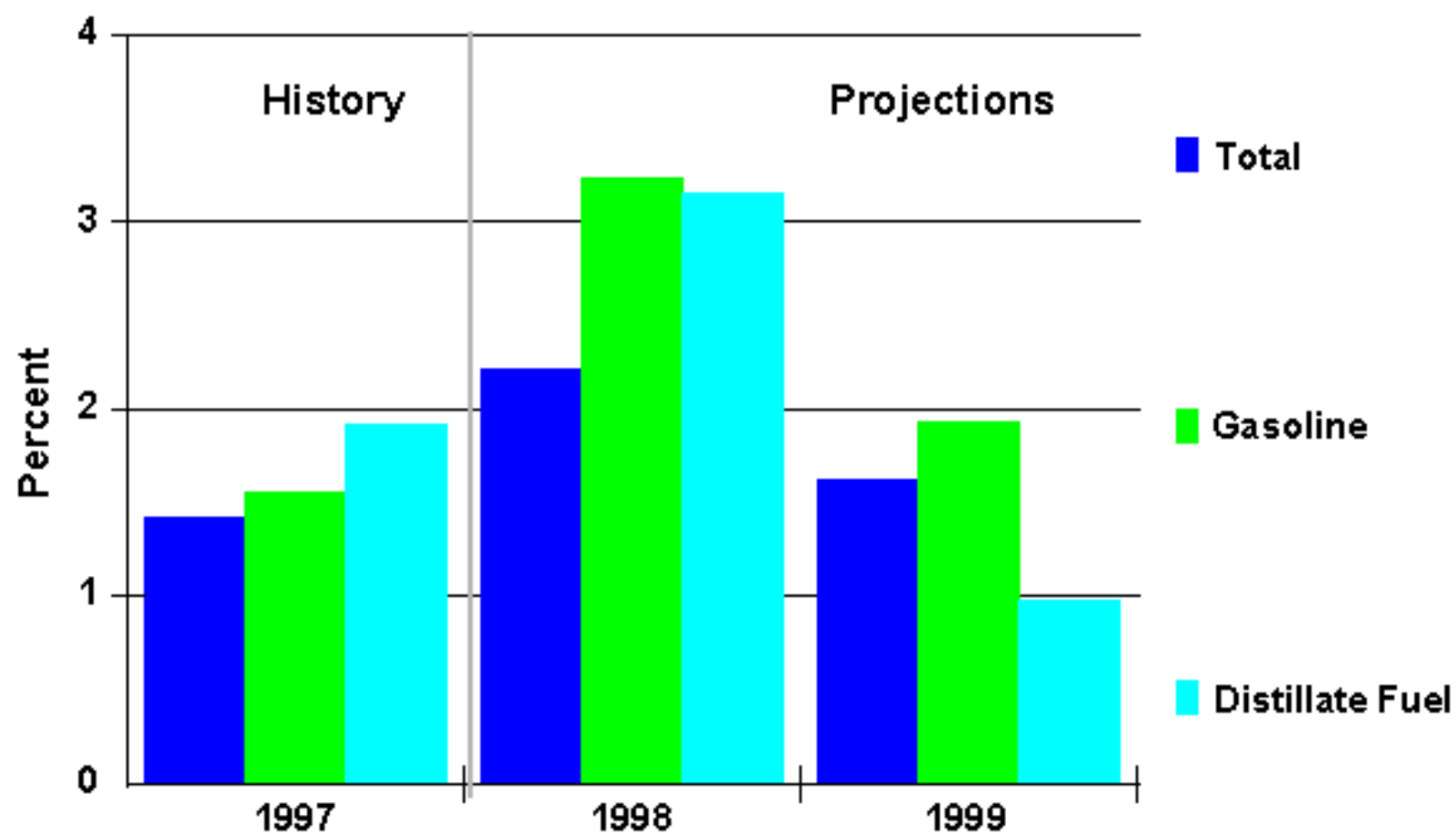
\* 1997-1998 Heating Season (Oct-Mar) vs 1996-1997 Season

Source: Energy Information Administration, Short-Term Energy Model, February 1998

- Despite relatively weaker heating demand this winter, U.S. petroleum demand is still expected to show solid growth overall, particularly because of increases in transportation-related fuels ([Figure 10](#)). Lower expected fuel costs bolster the case for accelerated growth in U.S. gasoline demand this year. With the current outlook, real gasoline prices would dip to the lowest levels seen since at least 1975 ([Figure 11](#)), even though real taxes on gasoline have increased significantly over that time frame ([Figure 12](#)). An expected decline of 10 percent in real gasoline costs per mile this year and sustained growth in personal income portend strong travel growth in 1998. With increases in average vehicle efficiency expected to be at or below recent trends, gasoline demand could exhibit growth in excess of 3 percent this year ([Figure 13](#)).
- Electricity sales to the residential sector in the first quarter of 1998 are now expected to be below the previous forecast due to the below-normal heating degree-days thus far this winter. Commercial and industrial sector use of electricity, which is driven more by the economy than by the weather, are at previously expected levels. On balance, despite the slow start, stronger growth in total electricity demand is expected this year than last ([Figure 14](#)). Residential sales will still lead the way, assuming the below-normal summer cooling demand experienced last year is not repeated.
- The acceleration in electricity demand growth this year will keep aggregate coal demand growing from 1997 levels, although at a somewhat slower rate. The return of some of the nuclear power plants that were down last year is expected to restrict the need for additional coal somewhat ([Figure 15](#)).
- U.S. coal exports in 1997 are estimated to be 83.5 million short tons (mmst). This is a 7.7 percent decline from the 90.5 mmst exported in 1996 ([Figure 16](#)). The decline, the largest since 1993, is due primarily to lower exports of steam coal. Weak international coal prices and strong competition in the European and Asian markets from other steam coal exporters were the significant factors for the decline. While U.S. metallurgical coal exports are expected to remain near 52.0 mmst throughout the forecast period, the situation of weak prices and strong competition will continue in the steam coal markets. Coal exports are forecast to be 85.1 mmst (a 1.8 percent increase) in 1998 and 85.3 mmst (a 0.3 percent increase) in 1999 (Table 9).

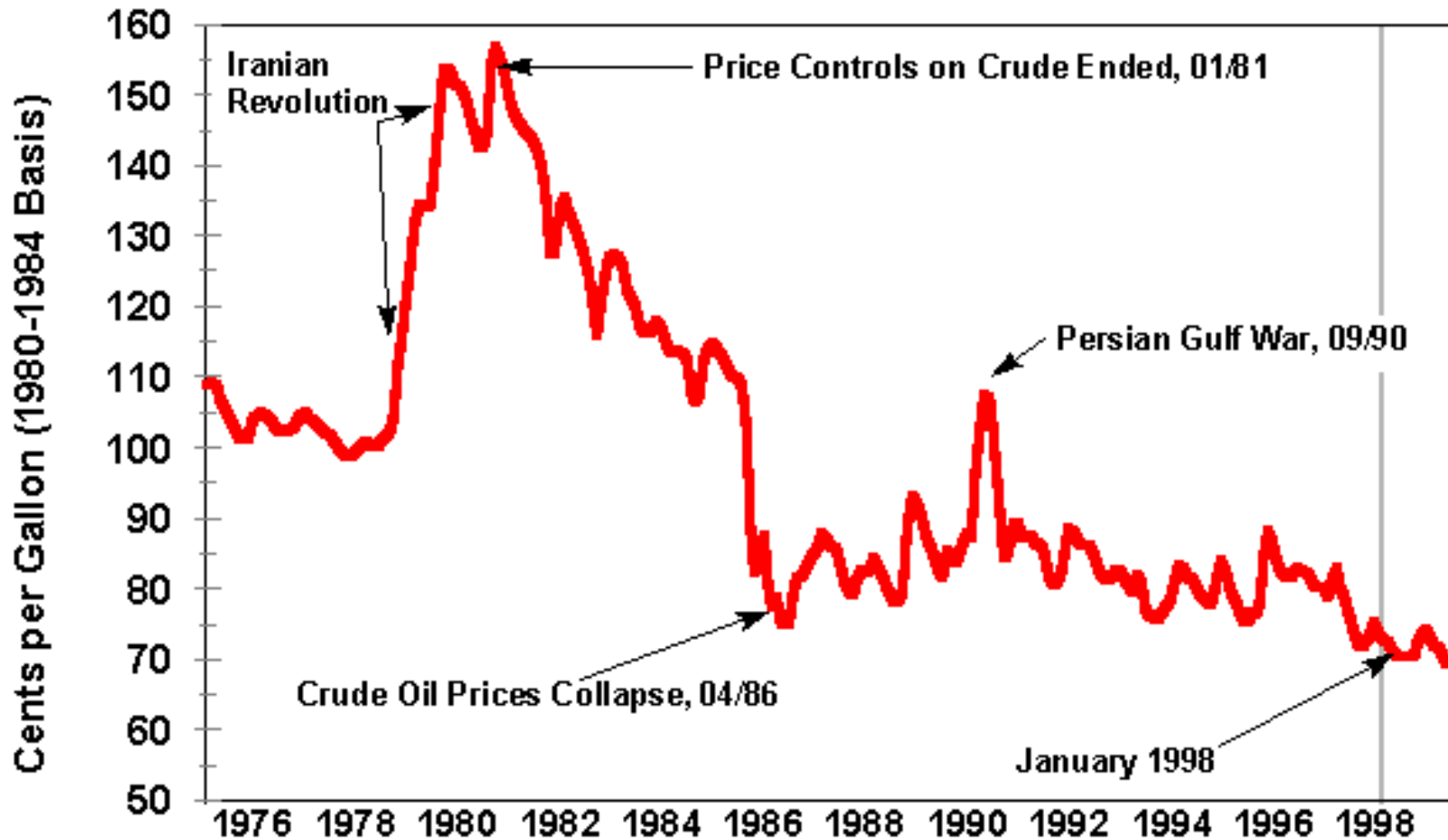
**Data Notes:** This Outlook includes for the first time the revisions to the monthly historical electric utility sales data, based on EIA's *Electric Sales and Revenue 1996* report. The revisions to annual sales (billion kilowatt-hours) for 1996 were (by sector): Residential: +0.4 percent; Commercial: -0.5 percent; Industrial: +1.6 percent; Other: -2.7 percent; Total: +0.4 percent.

**Figure 10. U.S. Petroleum Demand Growth**  
(Percent Change from Previous Year)



*Source: Energy Information Administration, Short-Term Energy Model, February 1998*

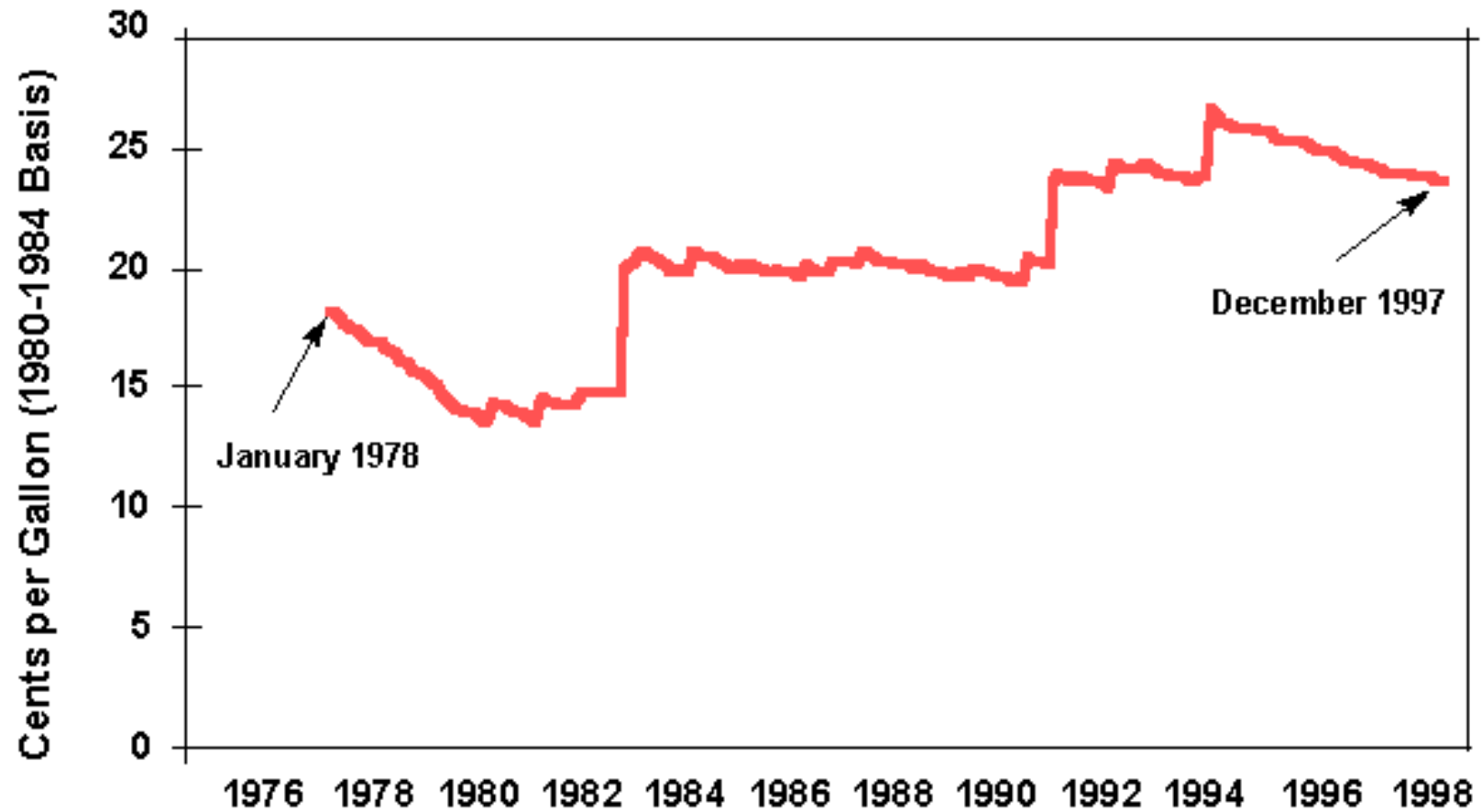
**Figure 11. Real Retail Gasoline Prices\***  
(Average All Grades, All Service)



\*Pump price (including tax)/Consumer Price Index (CPIU): 1980-1984=1.000

Source: Energy Information Administration, Short-Term Energy Model, February 1998

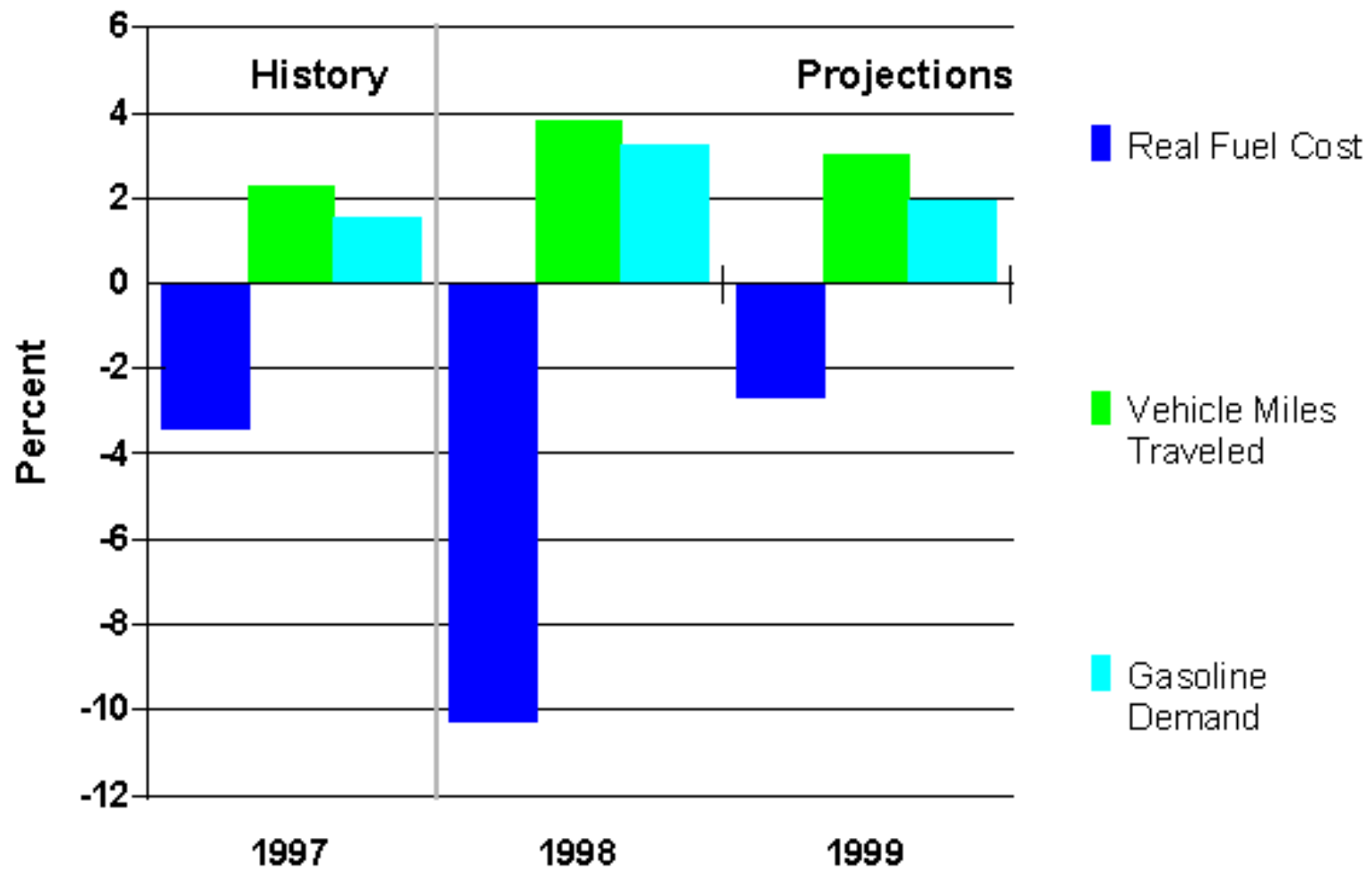
**Figure 12. Real Gasoline Taxes\***  
(Includes Federal and State Taxes)



\*Total Federal and State taxes/Consumer Price Index (CPIU): 1980-1984=1.000

Source: Energy Information Administration, Short-Term Energy Model, February 1998

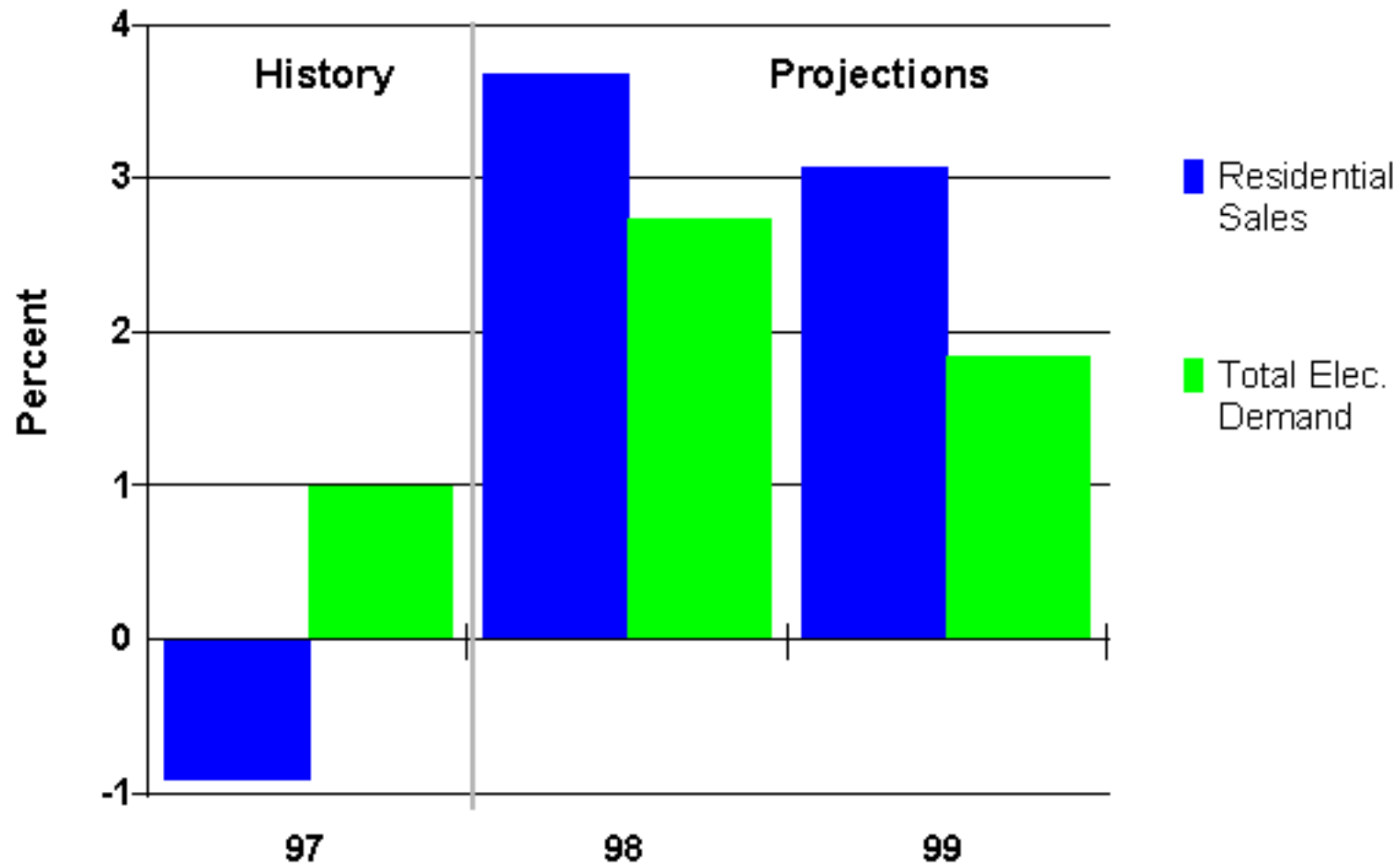
# Figure 13. Gasoline Market Indicators (Percent Change from Previous Year)



Source: Energy Information Administration, Short-Term Energy Model, February 1998

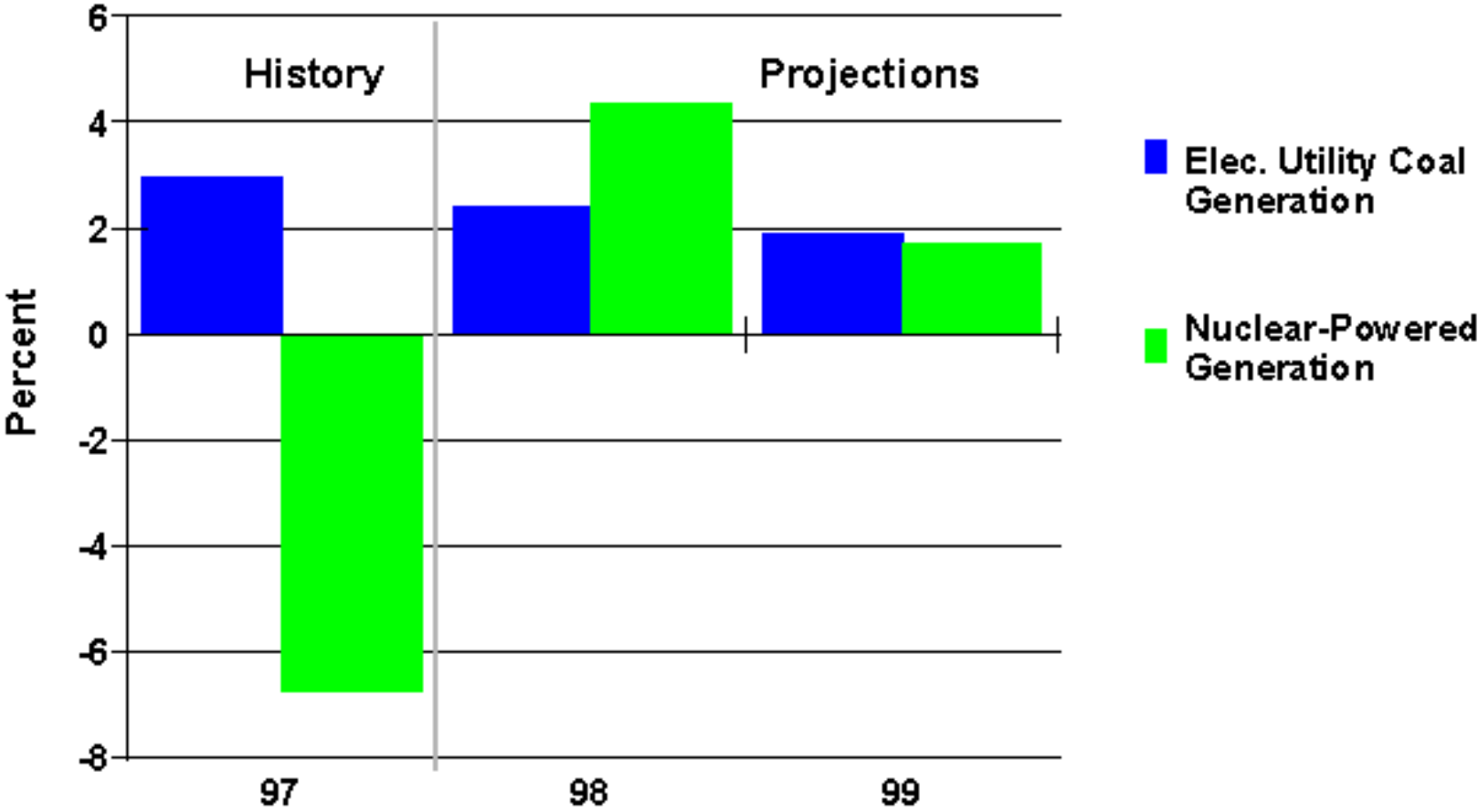


# Figure 14. Electricity Demand Growth (Percent Change from Previous Year)



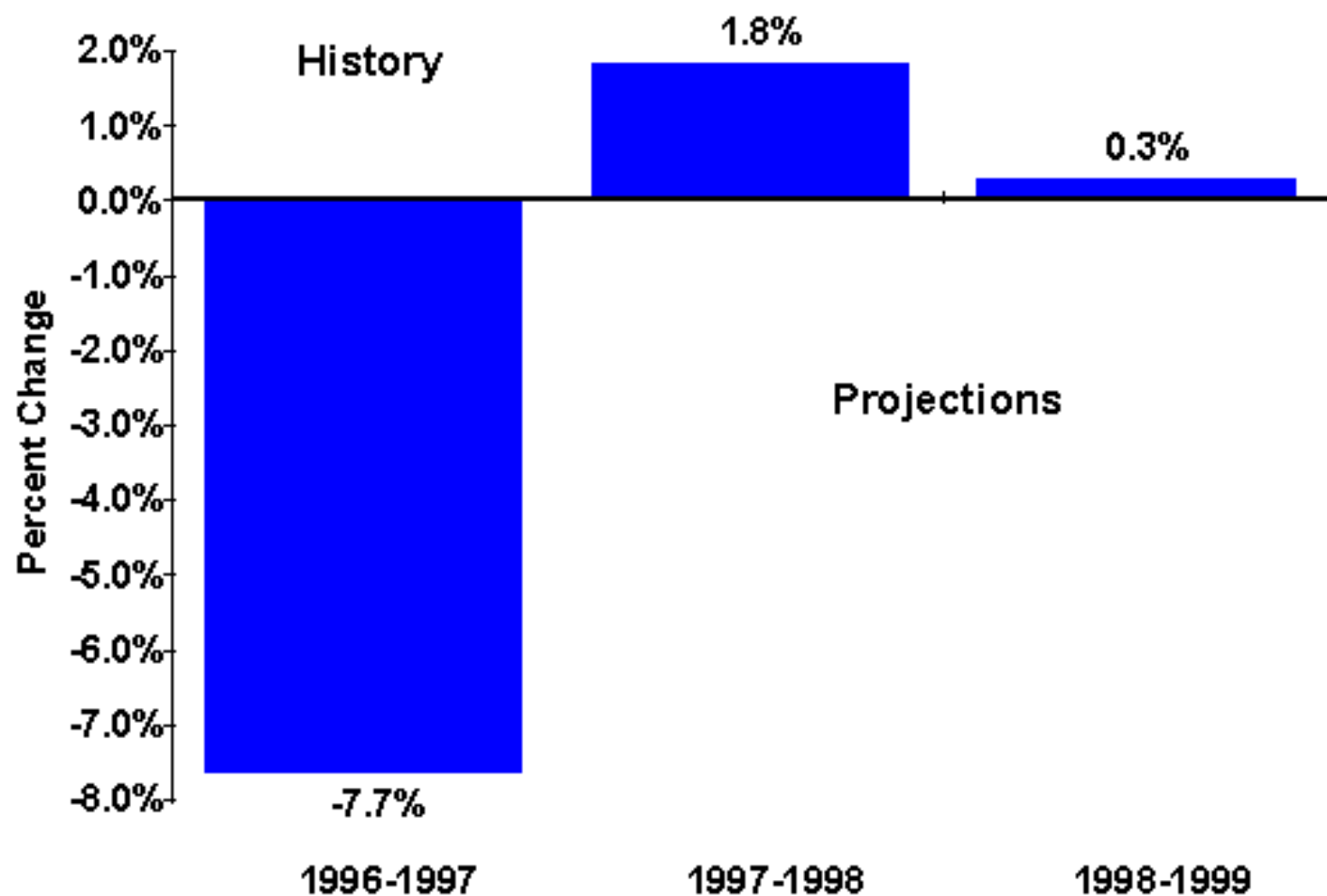
Source: Energy Information Administration, Short-Term Energy Model, February 1998

**Figure 15. Electric Utility Use of Coal and Nuclear Power  
(Percent Change from Previous Year)**



*Source: Energy Information Administration, Short-Term Energy Model, February 1998*

## Figure 16. Total U.S. Coal Exports (Percent Change from Previous Year)



Source: Energy Information Administration, Short-Term Energy Model, February 1998

**Table HL1. U.S. Energy Supply and Demand Summary**

	Year				Annual Percentage Change		
	1996	1997	1998	1999	1996-1997	1997-1998	1998-1999
<b>Real Gross Domestic Product (GDP)</b> (billion chained 1992 dollars) .....	<b>6928</b>	<b>7187</b>	<i>7345</i>	<i>7465</i>	<b>3.7</b>	<i>2.2</i>	<i>1.6</i>
Imported Crude Oil Price <sup>a</sup> (nominal dollars per barrel).....	<b>20.61</b>	<b>18.61</b>	<i>15.15</i>	<i>15.42</i>	<b>-9.7</b>	<i>-18.6</i>	<i>1.8</i>
<b>Petroleum Supply</b>							
Crude Oil Production <sup>b</sup> .....	<b>6.46</b>	<b>6.41</b>	<i>6.38</i>	<i>6.36</i>	<b>-0.8</b>	<i>-0.5</i>	<i>-0.3</i>
Total Petroleum Net Imports (including SPR) (million barrels per day) .....	<b>8.50</b>	<b>8.90</b>	<i>9.26</i>	<i>9.60</i>	<b>4.7</b>	<i>4.0</i>	<i>3.7</i>
<b>Energy Demand</b>							
World Petroleum (million barrels per day) .....	<b>71.5</b>	<b>73.4</b>	<i>75.3</i>	<i>77.3</i>	<b>2.7</b>	<i>2.6</i>	<i>2.7</i>
Petroleum (million barrels per day) .....	<b>18.31</b>	<b>18.57</b>	<i>18.98</i>	<i>19.29</i>	<b>1.4</b>	<i>2.2</i>	<i>1.6</i>
Natural Gas (trillion cubic feet) .....	<b>21.96</b>	<b>21.94</b>	<i>22.54</i>	<i>23.16</i>	<b>-0.1</b>	<i>2.7</i>	<i>2.8</i>
Coal (million short tons) .....	<b>1007</b>	<b>1033</b>	<i>1051</i>	<i>1071</i>	<b>2.6</b>	<i>1.7</i>	<i>1.9</i>
Electricity (billion kilowatthours)							
Utility Sales <sup>c</sup> .....	<b>3098</b>	<b>3126</b>	<i>3211</i>	<i>3269</i>	<b>0.9</b>	<i>2.7</i>	<i>1.8</i>
Nonutility Own Use <sup>d</sup> .....	<b>164</b>	<b>169</b>	<i>173</i>	<i>178</i>	<b>3.0</b>	<i>2.4</i>	<i>2.9</i>
Total .....	<b>3262</b>	<b>3294</b>	<i>3384</i>	<i>3447</i>	<b>1.0</b>	<i>2.7</i>	<i>1.9</i>
Adjusted Total Energy Demand <sup>e</sup> (quadrillion Btu).....	<b>93.9</b>	<b>94.5</b>	<i>96.1</i>	<i>97.9</i>	<b>0.6</b>	<i>1.7</i>	<i>1.8</i>
Adjusted Total Energy Demand per Dollar of GDP (thousand Btu per 1992 Dollar) .....	<b>13.56</b>	<b>13.15</b>	<i>13.08</i>	<i>13.11</i>	<b>-3.0</b>	<i>-0.5</i>	<i>0.2</i>
Renewable Energy as Percent of Total.....	<b>7.7</b>	<b>7.9</b>	<i>7.2</i>	<i>7.0</i>			

<sup>a</sup>Refers to the refiner acquisition cost (RAC) of imported crude oil.

<sup>b</sup>Includes lease condensate.

<sup>c</sup>Total annual electric utility sales for historical periods are derived from the sum of monthly sales figures based on submissions by electric utilities of Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions." These historical values differ from annual sales totals based on Form EIA-861, "Annual Electric Utility Report," reported in several EIA publications, but match alternate annual totals reported in EIA's *Electric Power Monthly*, DOE/EIA-0226.

<sup>d</sup>Defined as the difference between total nonutility electricity generation and sales to electric utilities by nonutility generators, reported on Form EIA-867, "Annual Nonutility Power Producer Report." Data for 1997 are estimates.

<sup>e</sup>The conversion from physical units to Btu is calculated by using a subset of conversion factors used in the calculations performed for gross energy consumption in Energy Information Administration, *Monthly Energy Review (MER)*. Consequently, the historical data may not precisely match those published in the *MER* or the *Annual Energy Review (AER)*.

SPR: Strategic Petroleum Reserve.

Notes: Minor discrepancies with other published EIA historical data are due to independent rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Latest data available from Bureau of Economic Analysis and Energy Information Administration; latest data available from EIA databases supporting the following reports: *Petroleum Supply Monthly*, DOE/EIA-0109; *Petroleum Supply Annual*, DOE/EIA-0340/2; *Natural Gas Monthly*, DOE/EIA-0130; *Electric Power Monthly*, DOE/EIA-0226; and *Quarterly Coal Report*, DOE/EIA-0121; *International Petroleum Statistics Report* DOE/EIA-0520; *Weekly Petroleum Status Report* DOE/EIA-0208. Macroeconomic projections are based on DRI/McGraw-Hill Forecast CONTROL1297.

**Table 1. U.S. Macroeconomic and Weather Assumptions**

	1997				1998				1999				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1997	1998	1999
<b>Macroeconomic <sup>a</sup></b>															
Real Gross Domestic Product (billion chained 1992 dollars - SAAR).....	<b>7102</b>	<b>7160</b>	<b>7218</b>	<i>7268</i>	<i>7299</i>	<i>7332</i>	<i>7359</i>	<i>7390</i>	<i>7417</i>	<i>7447</i>	<i>7476</i>	<i>7521</i>	<i>7187</i>	<i>7345</i>	<i>7465</i>
Percentage Change from Prior Year.....	<b>4.0</b>	<b>3.4</b>	<b>3.9</b>	<i>3.6</i>	<i>2.8</i>	<i>2.4</i>	<i>2.0</i>	<i>1.7</i>	<i>1.6</i>	<i>1.6</i>	<i>1.6</i>	<i>1.8</i>	<i>3.7</i>	<i>2.2</i>	<i>1.6</i>
Annualized Percent Change from Prior Quarter.....	<b>4.8</b>	<b>3.3</b>	<b>3.2</b>	<i>2.8</i>	<i>1.7</i>	<i>1.8</i>	<i>1.5</i>	<i>1.7</i>	<i>1.4</i>	<i>1.6</i>	<i>1.6</i>	<i>2.4</i>			
GDP Implicit Price Deflator (Index, 1992=1.000).....	<b>1.118</b>	<b>1.123</b>	<b>1.127</b>	<i>1.132</i>	<i>1.137</i>	<i>1.141</i>	<i>1.146</i>	<i>1.151</i>	<i>1.157</i>	<i>1.161</i>	<i>1.166</i>	<i>1.170</i>	<i>1.125</i>	<i>1.144</i>	<i>1.164</i>
Percentage Change from Prior Year.....	<b>2.3</b>	<b>2.2</b>	<b>1.9</b>	<i>1.9</i>	<i>1.7</i>	<i>1.7</i>	<i>1.7</i>	<i>1.7</i>	<i>1.8</i>	<i>1.8</i>	<i>1.7</i>	<i>1.7</i>	<i>2.0</i>	<i>1.7</i>	<i>1.7</i>
Real Disposable Personal Income (billion chained 1992 Dollars - SAAR).....	<b>5161</b>	<b>5201</b>	<b>5235</b>	<i>5281</i>	<i>5342</i>	<i>5378</i>	<i>5414</i>	<i>5457</i>	<i>5494</i>	<i>5512</i>	<i>5527</i>	<i>5543</i>	<i>5220</i>	<i>5398</i>	<i>5519</i>
Percentage Change from Prior Year.....	<b>2.2</b>	<b>2.8</b>	<b>2.8</b>	<i>3.5</i>	<i>3.5</i>	<i>3.4</i>	<i>3.4</i>	<i>3.3</i>	<i>2.8</i>	<i>2.5</i>	<i>2.1</i>	<i>1.6</i>	<i>2.8</i>	<i>3.4</i>	<i>2.3</i>
Manufacturing Production (Index, 1992=1.000).....	<b>1.200</b>	<b>1.212</b>	<b>1.233</b>	<i>1.251</i>	<i>1.255</i>	<i>1.262</i>	<i>1.266</i>	<i>1.264</i>	<i>1.264</i>	<i>1.268</i>	<i>1.274</i>	<i>1.282</i>	<i>1.224</i>	<i>1.262</i>	<i>1.272</i>
Percentage Change from Prior Year.....	<b>5.2</b>	<b>4.7</b>	<b>5.2</b>	<i>5.6</i>	<i>4.6</i>	<i>4.1</i>	<i>2.7</i>	<i>1.1</i>	<i>0.7</i>	<i>0.5</i>	<i>0.7</i>	<i>1.4</i>	<i>5.2</i>	<i>3.1</i>	<i>0.8</i>
OECD Economic Growth (percent) <sup>b</sup>													<i>3.1</i>	<i>2.2</i>	<i>2.2</i>
<b>Weather <sup>c</sup></b>															
Heating Degree-Days															
U.S. ....	<b>2156</b>	<b>635</b>	<b>122</b>	<i>1692</i>	<i>2192</i>	<i>524</i>	<i>89</i>	<i>1636</i>	<i>2327</i>	<i>524</i>	<i>89</i>	<i>1636</i>	<i>4605</i>	<i>4441</i>	<i>4576</i>
New England.....	<b>3108</b>	<b>1047</b>	<b>281</b>	<i>2329</i>	<i>3105</i>	<i>915</i>	<i>171</i>	<i>2269</i>	<i>3267</i>	<i>915</i>	<i>171</i>	<i>2269</i>	<i>6765</i>	<i>6459</i>	<i>6621</i>
Middle Atlantic.....	<b>2777</b>	<b>866</b>	<b>187</b>	<i>2070</i>	<i>2780</i>	<i>716</i>	<i>105</i>	<i>2026</i>	<i>2993</i>	<i>716</i>	<i>105</i>	<i>2026</i>	<i>5900</i>	<i>5627</i>	<i>5839</i>
U.S. Gas-Weighted.....	<b>2275</b>	<b>711</b>	<b>127</b>	<i>1773</i>	<i>2291</i>	<i>539</i>	<i>81</i>	<i>1686</i>	<i>2426</i>	<i>539</i>	<i>81</i>	<i>1686</i>	<i>4886</i>	<i>4597</i>	<i>4732</i>
Cooling Degree-Days (U.S.).....	<b>50</b>	<b>289</b>	<b>716</b>	<i>68</i>	<i>27</i>	<i>334</i>	<i>758</i>	<i>72</i>	<i>30</i>	<i>334</i>	<i>758</i>	<i>72</i>	<i>1123</i>	<i>1190</i>	<i>1193</i>

<sup>a</sup>Macroeconomic projections from DRI/McGraw-Hill model forecasts are seasonally adjusted at annual rates and modified as appropriate to the mid world oil price case.

<sup>b</sup>OECD: Organization for Economic Cooperation and Development: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, the Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and the United States. Mexico is also a member but is not yet included in OECD data.

<sup>c</sup>Population-weighted degree days. A degree day indicates the temperature variation from 65 degrees Fahrenheit (calculated as the simple average of the daily minimum and maximum temperatures) weighted by 1990 population. Normal is used for the forecast period and is defined as the average number of degree days between 1961 and 1990 for a given period.

SAAR: Seasonally-adjusted annualized rate.

Note: Historical data are printed in bold; forecasts are in italics.

Sources: Historical data: latest data available from: U.S. Department of Commerce, Bureau of Economic Analysis; U.S. Department of Commerce, National Oceanic and Atmospheric Administration; Federal Reserve System, *Statistical Release G.17(419)*. Projections of OECD growth are based on WEFA Group, "World Economic Outlook," Volume 1. Macroeconomic projections are based on DRI/McGraw-Hill Forecast CONTROL1297.

**Table 2. U.S. Energy Indicators: Mid World Oil Price Case**

	1997				1998				1999				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1997	1998	1999
<b>Macroeconomic <sup>a</sup></b>															
Real Fixed Investment (billion chained 1992 dollars-SAAR).....	<b>1079</b>	<b>1111</b>	<b>1148</b>	<i>1160</i>	<i>1180</i>	<i>1197</i>	<i>1211</i>	<i>1218</i>	<i>1222</i>	<i>1229</i>	<i>1238</i>	<i>1247</i>	<i>1125</i>	<i>1201</i>	<i>1234</i>
Real Exchange Rate (index) .....	<b>1.085</b>	<b>1.096</b>	<b>1.106</b>	<i>1.102</i>	<i>1.097</i>	<i>1.088</i>	<i>1.083</i>	<i>1.074</i>	<i>1.067</i>	<i>1.058</i>	<i>1.043</i>	<i>1.032</i>	<i>1.097</i>	<i>1.086</i>	<i>1.050</i>
Business Inventory Change (billion chained 1992 dollars-SAAR).....	<b>20.9</b>	<b>29.0</b>	<b>16.9</b>	<i>14.2</i>	<i>11.1</i>	<i>6.7</i>	<i>2.1</i>	<i>-1.0</i>	<i>-3.1</i>	<i>-3.7</i>	<i>-3.5</i>	<i>-3.2</i>	<i>20.2</i>	<i>4.7</i>	<i>-3.4</i>
Producer Price Index (index, 1980-1984=1.000).....	<b>1.284</b>	<b>1.268</b>	<b>1.272</b>	<i>1.275</i>	<i>1.272</i>	<i>1.274</i>	<i>1.277</i>	<i>1.280</i>	<i>1.282</i>	<i>1.284</i>	<i>1.286</i>	<i>1.289</i>	<i>1.275</i>	<i>1.276</i>	<i>1.286</i>
Consumer Price Index (index, 1980-1984=1.000).....	<b>1.597</b>	<b>1.601</b>	<b>1.609</b>	<i>1.618</i>	<i>1.622</i>	<i>1.629</i>	<i>1.637</i>	<i>1.646</i>	<i>1.655</i>	<i>1.663</i>	<i>1.672</i>	<i>1.682</i>	<i>1.606</i>	<i>1.634</i>	<i>1.668</i>
Petroleum Product Price Index (index, 1980-1984=1.000).....	<b>0.722</b>	<b>0.675</b>	<b>0.667</b>	<i>0.658</i>	<i>0.607</i>	<i>0.580</i>	<i>0.570</i>	<i>0.574</i>	<i>0.576</i>	<i>0.577</i>	<i>0.575</i>	<i>0.579</i>	<i>0.681</i>	<i>0.583</i>	<i>0.577</i>
Non-Farm Employment (millions).....	<b>121.1</b>	<b>121.9</b>	<b>122.6</b>	<i>123.3</i>	<i>123.9</i>	<i>124.4</i>	<i>124.9</i>	<i>125.3</i>	<i>125.6</i>	<i>125.9</i>	<i>126.1</i>	<i>126.4</i>	<i>122.2</i>	<i>124.6</i>	<i>126.0</i>
Commercial Employment (millions).....	<b>82.6</b>	<b>83.2</b>	<b>83.7</b>	<i>84.4</i>	<i>84.9</i>	<i>85.3</i>	<i>85.7</i>	<i>86.1</i>	<i>86.5</i>	<i>86.8</i>	<i>87.0</i>	<i>87.4</i>	<i>83.5</i>	<i>85.5</i>	<i>86.9</i>
Total Industrial Production (index, 1992=1.000).....	<b>1.183</b>	<b>1.196</b>	<b>1.215</b>	<i>1.230</i>	<i>1.233</i>	<i>1.238</i>	<i>1.242</i>	<i>1.242</i>	<i>1.241</i>	<i>1.245</i>	<i>1.250</i>	<i>1.258</i>	<i>1.206</i>	<i>1.239</i>	<i>1.249</i>
Housing Stock (millions).....	<b>112.1</b>	<b>112.5</b>	<b>112.9</b>	<i>113.3</i>	<i>113.6</i>	<i>114.0</i>	<i>114.4</i>	<i>114.8</i>	<i>115.1</i>	<i>115.5</i>	<i>115.8</i>	<i>116.2</i>	<i>112.7</i>	<i>114.2</i>	<i>115.6</i>
<b>Miscellaneous</b>															
Gas Weighted Industrial Production (index, 1992=1.000).....	<b>1.125</b>	<b>1.135</b>	<b>1.137</b>	<i>1.148</i>	<i>1.146</i>	<i>1.146</i>	<i>1.146</i>	<i>1.146</i>	<i>1.145</i>	<i>1.147</i>	<i>1.150</i>	<i>1.156</i>	<i>1.136</i>	<i>1.146</i>	<i>1.149</i>
Vehicle Miles Traveled <sup>b</sup> (million miles/day).....	<b>6463</b>	<b>7138</b>	<b>7311</b>	<i>6824</i>	<i>6672</i>	<i>7413</i>	<i>7589</i>	<i>7115</i>	<i>6918</i>	<i>7636</i>	<i>7801</i>	<i>7301</i>	<i>6936</i>	<i>7200</i>	<i>7416</i>
Vehicle Fuel Efficiency (index, 1996=1.000).....	<b>1.037</b>	<b>1.067</b>	<b>1.083</b>	<i>1.029</i>	<i>1.034</i>	<i>1.075</i>	<i>1.088</i>	<i>1.041</i>	<i>1.054</i>	<i>1.083</i>	<i>1.097</i>	<i>1.049</i>	<i>1.055</i>	<i>1.060</i>	<i>1.071</i>
Real Vehicle Fuel Cost (cents per mile).....	<b>4.06</b>	<b>3.85</b>	<b>3.83</b>	<i>3.90</i>	<i>3.60</i>	<i>3.52</i>	<i>3.42</i>	<i>3.48</i>	<i>3.42</i>	<i>3.45</i>	<i>3.36</i>	<i>3.41</i>	<i>3.91</i>	<i>3.51</i>	<i>3.41</i>
Air Travel Capacity (mill. available ton-miles/day).....	<b>402.1</b>	<b>417.1</b>	<b>433.5</b>	<i>425.5</i>	<i>427.4</i>	<i>445.0</i>	<i>460.0</i>	<i>448.7</i>	<i>441.0</i>	<i>455.9</i>	<i>470.6</i>	<i>459.0</i>	<i>419.6</i>	<i>445.4</i>	<i>456.7</i>
Aircraft Utilization (mill. revenue ton-miles/day).....	<b>230.5</b>	<b>248.0</b>	<b>260.6</b>	<i>248.4</i>	<i>243.0</i>	<i>257.8</i>	<i>270.4</i>	<i>252.5</i>	<i>246.5</i>	<i>262.2</i>	<i>276.4</i>	<i>261.7</i>	<i>247.0</i>	<i>256.0</i>	<i>261.8</i>
Aircraft Yield (cents per ton-mile).....	<b>14.16</b>	<b>13.61</b>	<b>13.04</b>	<i>13.61</i>	<i>14.25</i>	<i>14.06</i>	<i>13.38</i>	<i>14.20</i>	<i>14.88</i>	<i>14.58</i>	<i>13.80</i>	<i>14.53</i>	<i>13.60</i>	<i>13.97</i>	<i>14.45</i>
Raw Steel Production (millions tons).....	<b>26.47</b>	<b>26.59</b>	<b>26.52</b>	<i>27.70</i>	<i>28.63</i>	<i>28.77</i>	<i>28.67</i>	<i>29.22</i>	<i>29.59</i>	<i>29.40</i>	<i>29.09</i>	<i>29.76</i>	<i>106.98</i>	<i>115.29</i>	<i>117.84</i>

<sup>a</sup>Macroeconomic projections from DRI/McGraw-Hill model forecasts are seasonally adjusted at annual rates and modified as appropriate to the mid world oil price case.

<sup>b</sup>Includes all highway travel.

SAAR: Seasonally-adjusted annualized rate.

Note: Historical data are printed in bold; forecasts are in italics.

Sources: Historical data: latest data available from: U.S. Department of Commerce, Bureau of Economic Analysis; U.S. Department of Commerce, National Oceanic and Atmospheric Administration; Federal Reserve System, *Statistical Release G.17(419)*; U.S. Department of Transportation; American Iron and Steel Institute. Macroeconomic projections are based on DRI/McGraw-Hill Forecast CONTROL1297.

**Table 3. International Petroleum Supply and Demand: Mid World Oil Price Case**  
(Million Barrels per Day, Except OECD Commercial Stocks)

	1997				1998				1999				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1997	1998	1999
<b>Demand<sup>a</sup></b>															
OECD															
U.S. (50 States).....	<b>18.2</b>	<b>18.5</b>	<b>18.7</b>	<i>18.9</i>	<i>18.8</i>	<i>18.8</i>	<i>19.1</i>	<i>19.3</i>	<i>19.2</i>	<i>19.1</i>	<i>19.3</i>	<i>19.6</i>	<b>18.6</b>	<i>19.0</i>	<i>19.3</i>
U.S. Territories.....	<b>0.3</b>	<b>0.3</b>	<b>0.2</b>	<i>0.3</i>	<i>0.3</i>	<i>0.3</i>	<i>0.2</i>	<i>0.3</i>	<i>0.3</i>	<i>0.3</i>	<i>0.2</i>	<i>0.3</i>	<b>0.3</b>	<i>0.3</i>	<i>0.3</i>
Canada.....	<b>1.8</b>	<b>1.8</b>	<b>1.9</b>	<i>1.9</i>	<i>1.9</i>	<i>1.9</i>	<i>2.0</i>	<i>2.0</i>	<i>1.9</i>	<i>1.9</i>	<i>2.0</i>	<i>2.0</i>	<b>1.9</b>	<i>1.9</i>	<i>2.0</i>
Europe.....	<b>14.3</b>	<b>14.2</b>	<b>14.4</b>	<i>14.8</i>	<i>14.5</i>	<i>14.3</i>	<i>14.6</i>	<i>14.9</i>	<i>14.7</i>	<i>14.6</i>	<i>14.8</i>	<i>15.1</i>	<b>14.4</b>	<i>14.6</i>	<i>14.8</i>
Japan.....	<b>6.4</b>	<b>5.2</b>	<b>5.4</b>	<i>6.3</i>	<i>6.4</i>	<i>5.2</i>	<i>5.4</i>	<i>6.3</i>	<i>6.4</i>	<i>5.2</i>	<i>5.5</i>	<i>6.4</i>	<b>5.8</b>	<i>5.8</i>	<i>5.9</i>
Australia and New Zealand.....	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>	<b>1.0</b>	<i>1.0</i>	<i>1.0</i>
Total OECD.....	<b>41.9</b>	<b>40.8</b>	<b>41.6</b>	<i>43.1</i>	<i>42.8</i>	<i>41.4</i>	<i>42.2</i>	<i>43.7</i>	<i>43.6</i>	<i>42.0</i>	<i>42.9</i>	<i>44.4</i>	<b>41.9</b>	<i>42.5</i>	<i>43.2</i>
Non-OECD															
Former Soviet Union.....	<b>4.7</b>	<b>4.3</b>	<b>4.3</b>	<i>4.7</i>	<i>4.9</i>	<i>4.5</i>	<i>4.5</i>	<i>4.9</i>	<i>5.1</i>	<i>4.7</i>	<i>4.7</i>	<i>5.1</i>	<b>4.5</b>	<i>4.7</i>	<i>4.9</i>
Europe.....	<b>1.5</b>	<b>1.3</b>	<b>1.3</b>	<i>1.4</i>	<i>1.6</i>	<i>1.4</i>	<i>1.4</i>	<i>1.5</i>	<i>1.7</i>	<i>1.5</i>	<i>1.5</i>	<i>1.6</i>	<b>1.4</b>	<i>1.5</i>	<i>1.6</i>
China.....	<b>3.8</b>	<b>3.9</b>	<b>3.9</b>	<i>4.0</i>	<i>4.1</i>	<i>4.1</i>	<i>4.2</i>	<i>4.2</i>	<i>4.4</i>	<i>4.4</i>	<i>4.5</i>	<i>4.5</i>	<b>3.9</b>	<i>4.2</i>	<i>4.4</i>
Other Asia.....	<b>8.9</b>	<b>8.6</b>	<b>8.2</b>	<i>9.4</i>	<i>9.2</i>	<i>9.0</i>	<i>8.5</i>	<i>9.7</i>	<i>9.6</i>	<i>9.3</i>	<i>8.9</i>	<i>10.2</i>	<b>8.8</b>	<i>9.1</i>	<i>9.5</i>
Other Non-OECD.....	<b>12.7</b>	<b>13.1</b>	<b>12.8</b>	<i>13.0</i>	<i>13.1</i>	<i>13.5</i>	<i>13.2</i>	<i>13.4</i>	<i>13.5</i>	<i>13.9</i>	<i>13.6</i>	<i>13.9</i>	<b>12.9</b>	<i>13.3</i>	<i>13.7</i>
Total Non-OECD.....	<b>31.7</b>	<b>31.3</b>	<b>30.6</b>	<i>32.6</i>	<i>32.9</i>	<i>32.5</i>	<i>31.8</i>	<i>33.9</i>	<i>34.3</i>	<i>33.8</i>	<i>33.1</i>	<i>35.3</i>	<b>31.5</b>	<i>32.8</i>	<i>34.1</i>
Total World Demand.....	<b>73.6</b>	<b>72.1</b>	<b>72.2</b>	<i>75.7</i>	<i>75.8</i>	<i>73.9</i>	<i>74.0</i>	<i>77.6</i>	<i>77.9</i>	<i>75.9</i>	<i>76.0</i>	<i>79.6</i>	<b>73.4</b>	<i>75.3</i>	<i>77.3</i>
<b>Supply<sup>b</sup></b>															
OECD															
U.S. (50 States).....	<b>9.4</b>	<b>9.4</b>	<b>9.4</b>	<i>9.5</i>	<i>9.4</i>	<i>9.4</i>	<i>9.4</i>	<i>9.4</i>	<i>9.4</i>	<i>9.4</i>	<i>9.4</i>	<i>9.4</i>	<b>9.4</b>	<i>9.4</i>	<i>9.4</i>
Canada.....	<b>2.6</b>	<b>2.5</b>	<b>2.6</b>	<i>2.6</i>	<i>2.6</i>	<i>2.7</i>	<i>2.7</i>	<i>2.7</i>	<i>2.7</i>	<i>2.7</i>	<i>2.8</i>	<i>2.8</i>	<b>2.6</b>	<i>2.7</i>	<i>2.7</i>
North Sea <sup>c</sup> .....	<b>6.5</b>	<b>6.1</b>	<b>6.0</b>	<i>6.4</i>	<i>6.5</i>	<i>6.3</i>	<i>6.5</i>	<i>6.8</i>	<i>7.0</i>	<i>6.8</i>	<i>7.0</i>	<i>7.3</i>	<b>6.2</b>	<i>6.5</i>	<i>7.0</i>
Other OECD.....	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<i>1.7</i>	<i>1.7</i>	<i>1.7</i>	<i>1.7</i>	<i>1.7</i>	<i>1.7</i>	<i>1.7</i>	<i>1.7</i>	<i>1.7</i>	<b>1.6</b>	<i>1.7</i>	<i>1.7</i>
Total OECD.....	<b>20.1</b>	<b>19.6</b>	<b>19.6</b>	<i>20.1</i>	<i>20.1</i>	<i>20.0</i>	<i>20.2</i>	<i>20.6</i>	<i>20.8</i>	<i>20.6</i>	<i>20.9</i>	<i>21.2</i>	<b>19.9</b>	<i>20.2</i>	<i>20.9</i>
Non-OECD															
OPEC.....	<b>29.5</b>	<b>29.6</b>	<b>30.1</b>	<i>30.2</i>	<i>30.4</i>	<i>30.4</i>	<i>30.5</i>	<i>30.6</i>	<i>30.9</i>	<i>31.0</i>	<i>31.1</i>	<i>31.2</i>	<b>29.9</b>	<i>30.5</i>	<i>31.0</i>
Former Soviet Union.....	<b>7.1</b>	<b>7.2</b>	<b>7.3</b>	<i>7.3</i>	<i>7.3</i>	<i>7.3</i>	<i>7.3</i>	<i>7.4</i>	<i>7.4</i>	<i>7.4</i>	<i>7.4</i>	<i>7.5</i>	<b>7.2</b>	<i>7.3</i>	<i>7.4</i>
China.....	<b>3.2</b>	<b>3.2</b>	<b>3.2</b>	<i>3.3</i>	<i>3.3</i>	<i>3.3</i>	<i>3.3</i>	<i>3.3</i>	<i>3.3</i>	<i>3.3</i>	<i>3.3</i>	<i>3.3</i>	<b>3.2</b>	<i>3.3</i>	<i>3.3</i>
Mexico.....	<b>3.4</b>	<b>3.4</b>	<b>3.5</b>	<i>3.5</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<b>3.4</b>	<i>3.6</i>	<i>3.6</i>
Other Non-OECD.....	<b>10.4</b>	<b>10.5</b>	<b>10.4</b>	<i>10.5</i>	<i>10.7</i>	<i>10.9</i>	<i>11.0</i>	<i>11.1</i>	<i>11.2</i>	<i>11.4</i>	<i>11.5</i>	<i>11.8</i>	<b>10.4</b>	<i>10.9</i>	<i>11.5</i>
Total Non-OECD.....	<b>53.6</b>	<b>54.0</b>	<b>54.4</b>	<i>54.8</i>	<i>55.2</i>	<i>55.4</i>	<i>55.6</i>	<i>55.8</i>	<i>56.3</i>	<i>56.6</i>	<i>56.9</i>	<i>57.3</i>	<b>54.2</b>	<i>55.5</i>	<i>56.8</i>
Total World Supply.....	<b>73.7</b>	<b>73.5</b>	<b>74.1</b>	<i>74.9</i>	<i>75.3</i>	<i>75.4</i>	<i>75.8</i>	<i>76.4</i>	<i>77.0</i>	<i>77.2</i>	<i>77.7</i>	<i>78.5</i>	<b>74.0</b>	<i>75.7</i>	<i>77.6</i>
Stock Changes															
Net Stock Withdrawals or Additions (-)															
U.S. (50 States including SPR).....	<b>-0.1</b>	<b>-0.7</b>	<b>-0.2</b>	<i>0.3</i>	<i>0.4</i>	<i>-0.5</i>	<i>-0.2</i>	<i>0.5</i>	<i>0.4</i>	<i>-0.6</i>	<i>-0.3</i>	<i>0.5</i>	<b>-0.2</b>	<i>0.0</i>	<i>0.0</i>
Other.....	<b>0.0</b>	<b>-0.8</b>	<b>-1.7</b>	<i>0.5</i>	<i>0.1</i>	<i>-1.1</i>	<i>-1.5</i>	<i>0.7</i>	<i>0.5</i>	<i>-0.8</i>	<i>-1.5</i>	<i>0.6</i>	<b>-0.5</b>	<i>-0.5</i>	<i>-0.3</i>
Total Stock Withdrawals.....	<b>0.0</b>	<b>-1.5</b>	<b>-1.9</b>	<i>0.8</i>	<i>0.5</i>	<i>-1.6</i>	<i>-1.7</i>	<i>1.2</i>	<i>0.9</i>	<i>-1.4</i>	<i>-1.8</i>	<i>1.2</i>	<b>-0.6</b>	<i>-0.4</i>	<i>-0.3</i>
OECD Comm. Stocks, End (bill. bbls.).....	<b>2.7</b>	<b>2.7</b>	<b>2.8</b>	<i>2.7</i>	<i>2.7</i>	<i>2.7</i>	<i>2.8</i>	<i>2.8</i>	<i>2.7</i>	<i>2.8</i>	<i>2.9</i>	<i>2.8</i>	<b>2.7</b>	<i>2.8</i>	<i>2.8</i>
Non-OPEC Supply.....	<b>44.2</b>	<b>43.9</b>	<b>43.9</b>	<i>44.6</i>	<i>44.9</i>	<i>45.0</i>	<i>45.2</i>	<i>45.8</i>	<i>46.2</i>	<i>46.3</i>	<i>46.7</i>	<i>47.3</i>	<b>44.2</b>	<i>45.2</i>	<i>46.6</i>
Net Exports from Former Soviet Union.....	<b>2.3</b>	<b>2.9</b>	<b>2.9</b>	<i>2.5</i>	<i>2.3</i>	<i>2.8</i>	<i>2.8</i>	<i>2.4</i>	<i>2.2</i>	<i>2.7</i>	<i>2.7</i>	<i>2.3</i>	<b>2.7</b>	<i>2.6</i>	<i>2.5</i>

<sup>a</sup>Demand for petroleum by the OECD countries is synonymous with "petroleum product supplied," which is defined in the glossary of the EIA *Petroleum Supply Monthly*, DOE/EIA-0109. Demand for petroleum by the non-OECD countries is "apparent consumption," which includes internal consumption, refinery fuel and loss, and bunkering.

<sup>b</sup>Includes production of crude oil (including lease condensates), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources.

<sup>c</sup>Includes offshore supply from Denmark, Germany, the Netherlands, Norway, and the United Kingdom.

OECD: Organization for Economic Cooperation and Development: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, the Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and the United States. Mexico is also a member, but is not yet included in OECD data.

OPEC: Organization of Petroleum Exporting Countries: Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

SPR: Strategic Petroleum Reserve

Former Soviet Union: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine and Uzbekistan.

Notes: Minor discrepancies with other published EIA historical data are due to rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Energy Information Administration: latest data available from EIA databases supporting the following reports: *International Petroleum Statistics Report*, DOE/EIA-0520; Organization for Economic Cooperation and Development, Annual and Monthly Oil Statistics Database.

**Table 4. U. S. Energy Prices**  
(Nominal Dollars)

	1997				1998				1999				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1997	1998	1999
<b>Imported Crude Oil <sup>a</sup></b>															
(dollars per barrel) .....	<b>21.03</b>	<b>17.93</b>	<b>17.80</b>	17.92	14.92	15.33	15.08	15.25	15.08	15.58	15.33	15.67	<b>18.61</b>	15.15	15.42
<b>Natural Gas Wellhead</b>															
(dollars per thousand cubic feet) .....	<b>2.66</b>	<b>2.01</b>	<b>2.26</b>	2.76	2.15	1.97	1.99	2.31	2.18	1.88	1.92	2.26	<b>2.43</b>	2.11	2.06
<b>Petroleum Products</b>															
Gasoline Retail <sup>b</sup>															
(dollars per gallon) .....	<b>1.31</b>	<b>1.29</b>	<b>1.30</b>	1.27	1.18	1.20	1.19	1.17	1.16	1.21	1.21	1.18	<b>1.29</b>	1.19	1.19
No. 2 Diesel Oil, Retail															
(dollars per gallon) .....	<b>1.25</b>	<b>1.18</b>	<b>1.15</b>	1.17	1.11	1.09	1.08	1.12	1.10	1.10	1.09	1.12	<b>1.19</b>	1.10	1.10
No. 2 Heating Oil, Wholesale															
(dollars per gallon) .....	<b>0.65</b>	<b>0.57</b>	<b>0.54</b>	0.57	0.49	0.48	0.48	0.51	0.50	0.49	0.50	0.53	<b>0.59</b>	0.49	0.51
No. 2 Heating Oil, Retail															
(dollars per gallon) .....	<b>1.05</b>	<b>0.97</b>	<b>0.88</b>	0.94	0.91	0.86	0.82	0.88	0.91	0.88	0.84	0.90	<b>0.99</b>	0.88	0.90
No. 6 Residual Fuel Oil, Retail <sup>c</sup>															
(dollars per barrel) .....	<b>19.00</b>	<b>16.84</b>	<b>17.04</b>	18.11	15.09	14.67	14.00	14.97	15.27	14.62	14.32	15.58	<b>17.79</b>	14.71	14.98
<b>Electric Utility Fuels</b>															
Coal															
(dollars per million Btu) .....	<b>1.29</b>	<b>1.29</b>	<b>1.26</b>	1.25	1.25	1.26	1.24	1.23	1.23	1.24	1.22	1.21	<b>1.27</b>	1.25	1.23
Heavy Fuel Oil <sup>d</sup>															
(dollars per million Btu) .....	<b>2.91</b>	<b>2.59</b>	<b>2.71</b>	2.94	2.39	2.40	2.30	2.46	2.41	2.39	2.35	2.56	<b>2.80</b>	2.38	2.42
Natural Gas															
(dollars per million Btu) .....	<b>3.11</b>	<b>2.45</b>	<b>2.60</b>	3.25	2.61	2.31	2.30	2.66	2.61	2.24	2.25	2.61	<b>2.78</b>	2.42	2.38
<b>Other Residential</b>															
Natural Gas															
(dollars per thousand cubic feet) .....	<b>6.67</b>	<b>6.91</b>	<b>8.57</b>	6.93	6.53	6.88	8.06	6.30	6.36	6.97	8.18	6.59	<b>6.93</b>	6.64	6.66
Electricity															
(cents per kilowatthour) .....	<b>8.04</b>	<b>8.69</b>	<b>8.79</b>	8.31	7.95	8.53	8.70	8.27	7.89	8.45	8.71	8.21	<b>8.46</b>	8.37	8.32

<sup>a</sup>Refiner acquisition cost (RAC) of imported crude oil.

<sup>b</sup>Average for all grades and services.

<sup>c</sup>Average for all sulfur contents.

<sup>d</sup>Includes fuel oils No. 4, No. 5, and No. 6 and topped crude fuel oil prices.

Notes: Data are estimated for the fourth quarter of 1997. Prices exclude taxes, except prices for gasoline, residential natural gas, and diesel. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration: latest data available from EIA databases supporting the following reports: *Petroleum Marketing Monthly*, DOE/EIA-0380; *Natural Gas Monthly*, DOE/EIA-0130; *Monthly Energy Review*, DOE/EIA-0035; *Electric Power Monthly*, DOE/EIA-0226.



**Table 5. U.S. Petroleum Supply and Demand: Mid World Oil Price Case**  
(Million Barrels per Day, Except Closing Stocks)

	1997				1998				1999				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1997	1998	1999
<b>Supply</b>															
Crude Oil Supply															
Domestic Production <sup>a</sup> .....	<b>6.45</b>	<b>6.41</b>	<b>6.33</b>	<i>6.45</i>	<i>6.42</i>	<i>6.40</i>	<i>6.34</i>	<i>6.38</i>	<i>6.37</i>	<i>6.33</i>	<i>6.32</i>	<i>6.40</i>	<b>6.41</b>	<i>6.38</i>	<i>6.36</i>
Alaska .....	<b>1.36</b>	<b>1.30</b>	<b>1.24</b>	<i>1.29</i>	<i>1.22</i>	<i>1.18</i>	<i>1.15</i>	<i>1.21</i>	<i>1.24</i>	<i>1.19</i>	<i>1.16</i>	<i>1.19</i>	<b>1.30</b>	<i>1.19</i>	<i>1.19</i>
Lower 48 .....	<b>5.09</b>	<b>5.11</b>	<b>5.09</b>	<i>5.15</i>	<i>5.21</i>	<i>5.22</i>	<i>5.19</i>	<i>5.16</i>	<i>5.13</i>	<i>5.14</i>	<i>5.17</i>	<i>5.21</i>	<b>5.11</b>	<i>5.19</i>	<i>5.16</i>
Net Imports (including SPR) <sup>b</sup> .....	<b>7.32</b>	<b>8.11</b>	<b>8.17</b>	<i>7.95</i>	<i>7.48</i>	<i>8.03</i>	<i>8.32</i>	<i>7.96</i>	<i>7.76</i>	<i>8.42</i>	<i>8.58</i>	<i>8.14</i>	<b>7.89</b>	<i>7.95</i>	<i>8.23</i>
Other SPR Supply .....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<b>0.00</b>	<i>0.00</i>	<i>0.00</i>
SPR Stock Withdrawn or Added (-) .....	<b>0.03</b>	<b>0.00</b>	<b>0.00</b>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<b>0.01</b>	<i>0.00</i>	<i>0.00</i>
Other Stock Withdrawn or Added (-) .....	<b>-0.34</b>	<b>-0.08</b>	<b>0.20</b>	<i>-0.06</i>	<i>-0.15</i>	<i>0.02</i>	<i>0.11</i>	<i>0.02</i>	<i>-0.06</i>	<i>-0.02</i>	<i>0.06</i>	<i>0.02</i>	<b>-0.07</b>	<i>0.00</i>	<i>0.00</i>
Product Supplied and Losses .....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<i>0.00</i>	<i>-0.01</i>	<i>-0.01</i>	<i>-0.01</i>	<i>-0.01</i>	<i>-0.01</i>	<i>-0.01</i>	<i>-0.01</i>	<i>-0.01</i>	<b>0.00</b>	<i>-0.01</i>	<i>-0.01</i>
Unaccounted-for Crude Oil .....	<b>0.24</b>	<b>0.41</b>	<b>0.46</b>	<i>0.46</i>	<i>0.32</i>	<i>0.28</i>	<i>0.29</i>	<i>0.28</i>	<i>0.27</i>	<i>0.29</i>	<i>0.29</i>	<i>0.28</i>	<b>0.39</b>	<i>0.29</i>	<i>0.28</i>
Total Crude Oil Supply .....	<b>13.71</b>	<b>14.84</b>	<b>15.16</b>	<i>14.80</i>	<i>14.06</i>	<i>14.72</i>	<i>15.05</i>	<i>14.62</i>	<i>14.33</i>	<i>15.01</i>	<i>15.25</i>	<i>14.84</i>	<b>14.63</b>	<i>14.62</i>	<i>14.86</i>
Other Supply															
NGL Production.....	<b>1.87</b>	<b>1.84</b>	<b>1.86</b>	<i>1.81</i>	<i>1.87</i>	<i>1.87</i>	<i>1.86</i>	<i>1.87</i>	<i>1.88</i>	<i>1.87</i>	<i>1.86</i>	<i>1.86</i>	<b>1.84</b>	<i>1.87</i>	<i>1.87</i>
Other Hydrocarbon and Alcohol Inputs.....	<b>0.31</b>	<b>0.34</b>	<b>0.36</b>	<i>0.34</i>	<i>0.31</i>	<i>0.31</i>	<i>0.32</i>	<i>0.33</i>	<i>0.34</i>	<i>0.32</i>	<i>0.33</i>	<i>0.33</i>	<b>0.34</b>	<i>0.32</i>	<i>0.33</i>
Crude Oil Product Supplied.....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<i>0.00</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<b>0.00</b>	<i>0.01</i>	<i>0.01</i>
Processing Gain.....	<b>0.78</b>	<b>0.84</b>	<b>0.87</b>	<i>0.86</i>	<i>0.78</i>	<i>0.83</i>	<i>0.85</i>	<i>0.83</i>	<i>0.80</i>	<i>0.85</i>	<i>0.87</i>	<i>0.84</i>	<b>0.84</b>	<i>0.82</i>	<i>0.84</i>
Net Product Imports <sup>c</sup> .....	<b>1.30</b>	<b>1.22</b>	<b>0.82</b>	<i>0.70</i>	<i>1.28</i>	<i>1.52</i>	<i>1.30</i>	<i>1.14</i>	<i>1.38</i>	<i>1.56</i>	<i>1.36</i>	<i>1.19</i>	<b>1.01</b>	<i>1.31</i>	<i>1.37</i>
Product Stock Withdrawn or Added (-) <sup>d</sup> ..	<b>0.26</b>	<b>-0.63</b>	<b>-0.38</b>	<i>0.37</i>	<i>0.50</i>	<i>-0.50</i>	<i>-0.32</i>	<i>0.48</i>	<i>0.46</i>	<i>-0.57</i>	<i>-0.33</i>	<i>0.49</i>	<b>-0.10</b>	<i>0.04</i>	<i>0.01</i>
Total Supply .....	<b>18.23</b>	<b>18.46</b>	<b>18.69</b>	<i>18.88</i>	<i>18.81</i>	<i>18.76</i>	<i>19.06</i>	<i>19.27</i>	<i>19.20</i>	<i>19.05</i>	<i>19.34</i>	<i>19.55</i>	<b>18.56</b>	<i>18.98</i>	<i>19.29</i>
<b>Demand</b>															
Motor Gasoline.....	<b>7.59</b>	<b>8.15</b>	<b>8.23</b>	<i>8.08</i>	<i>7.86</i>	<i>8.40</i>	<i>8.49</i>	<i>8.33</i>	<i>8.00</i>	<i>8.59</i>	<i>8.66</i>	<i>8.48</i>	<b>8.01</b>	<i>8.27</i>	<i>8.43</i>
Jet Fuel .....	<b>1.57</b>	<b>1.56</b>	<b>1.65</b>	<i>1.63</i>	<i>1.62</i>	<i>1.60</i>	<i>1.68</i>	<i>1.69</i>	<i>1.67</i>	<i>1.62</i>	<i>1.71</i>	<i>1.72</i>	<b>1.60</b>	<i>1.65</i>	<i>1.68</i>
Distillate Fuel Oil .....	<b>3.58</b>	<b>3.33</b>	<b>3.23</b>	<i>3.58</i>	<i>3.75</i>	<i>3.42</i>	<i>3.36</i>	<i>3.62</i>	<i>3.85</i>	<i>3.44</i>	<i>3.37</i>	<i>3.64</i>	<b>3.43</b>	<i>3.54</i>	<i>3.57</i>
Residual Fuel Oil.....	<b>0.90</b>	<b>0.77</b>	<b>0.77</b>	<i>0.77</i>	<i>0.96</i>	<i>0.84</i>	<i>0.83</i>	<i>0.91</i>	<i>1.03</i>	<i>0.85</i>	<i>0.83</i>	<i>0.91</i>	<b>0.80</b>	<i>0.88</i>	<i>0.91</i>
Other Oils <sup>e</sup> .....	<b>4.61</b>	<b>4.65</b>	<b>4.81</b>	<i>4.82</i>	<i>4.62</i>	<i>4.50</i>	<i>4.71</i>	<i>4.71</i>	<i>4.65</i>	<i>4.55</i>	<i>4.78</i>	<i>4.80</i>	<b>4.72</b>	<i>4.64</i>	<i>4.70</i>
Total Demand.....	<b>18.24</b>	<b>18.46</b>	<b>18.69</b>	<i>18.88</i>	<i>18.81</i>	<i>18.76</i>	<i>19.06</i>	<i>19.27</i>	<i>19.20</i>	<i>19.05</i>	<i>19.34</i>	<i>19.55</i>	<b>18.57</b>	<i>18.98</i>	<i>19.29</i>
Total Petroleum Net Imports .....	<b>8.62</b>	<b>9.32</b>	<b>8.99</b>	<i>8.65</i>	<i>8.76</i>	<i>9.55</i>	<i>9.61</i>	<i>9.09</i>	<i>9.14</i>	<i>9.98</i>	<i>9.94</i>	<i>9.33</i>	<b>8.90</b>	<i>9.26</i>	<i>9.60</i>
<b>Closing Stocks (million barrels)</b>															
Crude Oil (excluding SPR).....	<b>314</b>	<b>322</b>	<b>303</b>	<i>308</i>	<i>322</i>	<i>320</i>	<i>309</i>	<i>307</i>	<i>313</i>	<i>315</i>	<i>309</i>	<i>307</i>	<b>308</b>	<i>307</i>	<i>307</i>
Total Motor Gasoline.....	<b>200</b>	<b>205</b>	<b>199</b>	<i>209</i>	<i>214</i>	<i>212</i>	<i>207</i>	<i>200</i>	<i>213</i>	<i>211</i>	<i>207</i>	<i>200</i>	<b>209</b>	<i>200</i>	<i>200</i>
Finished Motor Gasoline.....	<b>154</b>	<b>164</b>	<b>158</b>	<i>165</i>	<i>173</i>	<i>172</i>	<i>166</i>	<i>159</i>	<i>172</i>	<i>171</i>	<i>166</i>	<i>159</i>	<b>165</b>	<i>159</i>	<i>159</i>
Blending Components.....	<b>46</b>	<b>41</b>	<b>41</b>	<i>43</i>	<i>42</i>	<i>40</i>	<i>41</i>	<i>41</i>	<i>42</i>	<i>40</i>	<i>41</i>	<i>41</i>	<b>43</b>	<i>41</i>	<i>41</i>
Jet Fuel .....	<b>39</b>	<b>43</b>	<b>45</b>	<i>44</i>	<i>41</i>	<i>43</i>	<i>44</i>	<i>44</i>	<i>42</i>	<i>43</i>	<i>45</i>	<i>44</i>	<b>44</b>	<i>44</i>	<i>44</i>
Distillate Fuel Oil .....	<b>102</b>	<b>118</b>	<b>139</b>	<i>135</i>	<i>106</i>	<i>115</i>	<i>130</i>	<i>132</i>	<i>95</i>	<i>109</i>	<i>127</i>	<i>131</i>	<b>135</b>	<i>132</i>	<i>131</i>
Residual Fuel Oil.....	<b>41</b>	<b>39</b>	<b>35</b>	<i>40</i>	<i>32</i>	<i>36</i>	<i>38</i>	<i>42</i>	<i>34</i>	<i>38</i>	<i>39</i>	<i>42</i>	<b>40</b>	<i>42</i>	<i>42</i>
Other Oils <sup>e</sup> .....	<b>253</b>	<b>286</b>	<b>309</b>	<i>265</i>	<i>254</i>	<i>287</i>	<i>303</i>	<i>261</i>	<i>254</i>	<i>289</i>	<i>302</i>	<i>257</i>	<b>265</b>	<i>261</i>	<i>257</i>
Total Stocks (excluding SPR) .....	<b>949</b>	<b>1013</b>	<b>1030</b>	<i>1001</i>	<i>970</i>	<i>1013</i>	<i>1032</i>	<i>986</i>	<i>950</i>	<i>1004</i>	<i>1028</i>	<i>981</i>	<b>1001</b>	<i>986</i>	<i>981</i>
Crude Oil in SPR.....	<b>563</b>	<b>563</b>	<b>563</b>	<i>563</i>	<i>563</i>	<i>563</i>	<i>563</i>	<i>563</i>	<i>563</i>	<i>563</i>	<i>563</i>	<i>563</i>	<b>563</b>	<i>563</i>	<i>563</i>
Total Stocks (including SPR) .....	<b>1512</b>	<b>1577</b>	<b>1594</b>	<i>1565</i>	<i>1533</i>	<i>1576</i>	<i>1595</i>	<i>1549</i>	<i>1513</i>	<i>1567</i>	<i>1592</i>	<i>1545</i>	<b>1565</b>	<i>1549</i>	<i>1545</i>

<sup>a</sup>Includes lease condensate.

<sup>b</sup>Net imports equals gross imports plus SPR imports minus exports.

<sup>c</sup>Includes finished petroleum products, unfinished oils, gasoline blending components, and natural gas plant liquids for processing.

<sup>d</sup>Includes crude oil product supplied, natural gas liquids, liquefied refinery gas, other liquids, and all finished petroleum products except motor gasoline, jet fuel, distillate, and residual fuel oil.

<sup>e</sup>Includes stocks of all other oils, such as aviation gasoline, kerosene, natural gas liquids (including ethane), aviation gasoline blending components, naphtha and other oils for petrochemical feedstock use, special naphthas, lube oils, wax, coke, asphalt, road oil, and miscellaneous oils.

SPR: Strategic Petroleum Reserve

NGL: Natural Gas Liquids

Notes: Minor discrepancies with other EIA published historical data are due to rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration: latest data available from EIA databases supporting the following reports: *Petroleum Supply Monthly*, DOE/EIA-0109, and *Weekly Petroleum Status Report*, DOE/EIA-0208.

**Table 6. Approximate Energy Demand Sensitivities<sup>a</sup> for the STIFS<sup>b</sup> Model  
(Deviation Base Case)**

Demand Sector	+1% GDP	+ 10% Prices		+ 10% Weather <sup>e</sup>	
		Crude Oil <sup>c</sup>	N.Gas Wellhead <sup>d</sup>	Fall/Winter <sup>f</sup>	Spring/Summer <sup>f</sup>
<b>Petroleum</b>					
Total .....	0.6%	-0.3%	0.1%	1.1%	0.1%
Motor Gasoline .....	0.1%	-0.3%	0.0%	0.0%	0.0%
Distillate Fuel .....	0.8%	-0.2%	0.0%	2.7%	0.1%
Residual Fuel.....	1.6%	-3.4%	2.6%	2.0%	2.7%
<b>Natural Gas</b>					
Total .....	1.1%	0.3%	-0.4%	4.4%	1.0%
Residential.....	0.1%	0.0%	0.0%	8.2%	0.0%
Commercial.....	0.9%	0.0%	0.0%	7.3%	0.0%
Industrial .....	1.7%	0.2%	-0.5%	1.3%	0.0%
Electric Utility .....	1.8%	1.6%	-1.5%	1.0%	4.0%
<b>Coal</b>					
Total .....	0.7%	0.0%	0.0%	1.7%	1.7%
Electric Utility .....	0.6%	0.0%	0.0%	1.9%	1.9%
<b>Electricity</b>					
Total .....	0.6%	0.0%	0.0%	1.5%	1.7%
Residential.....	0.1%	0.0%	0.0%	3.2%	3.6%
Commercial.....	0.9%	0.0%	0.0%	1.0%	1.4%
Industrial .....	0.8%	0.0%	0.0%	0.3%	0.2%

<sup>a</sup>Percent change in demand quantity resulting from specified percent changes in model inputs.

<sup>b</sup>Short-Term Integrated Forecasting System.

<sup>c</sup>Refiner acquisitions cost of imported crude oil.

<sup>d</sup>Average unit value of marketed natural gas production reported by States.

<sup>e</sup>Refers to percent changes in degree-days.

<sup>f</sup>Response during fall/winter period(first and fourth calendar quarters) refers to change in heating degree-days.

Response during the spring/summer period refers to change in cooling degree-days.

**Table 7. Forecast Components for U.S. Crude Oil Production  
(Million Barrels per Day)**

	High Price Case	Low Price Case	Difference		
			Total	Uncertainty	Price Impact
<b>United States</b> .....	6.55	6.09	0.46	0.09	0.37
<b>Lower 48 States</b> .....	5.34	4.90	0.43	0.08	0.36
<b>Alaska</b> .....	1.21	1.18	0.03	0.01	0.01

Note: Components provided are for the fourth quarter 1998. Totals may not add to sum of components due to independent rounding.

Source: Energy Information Administration, Office of Oil and Gas, Reserves and Natural Gas Division.

**Table 8. U.S. Natural Gas Supply and Demand: Mid world Oil Price Case**  
(Trillion cubic Feet)

	1997				1998				1999				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1997	1998	1999
<b>Supply</b>															
Total Dry Gas Production.....	<b>4.76</b>	<b>4.72</b>	<b>4.75</b>	<i>4.80</i>	<i>4.76</i>	<i>4.74</i>	<i>4.80</i>	<i>4.87</i>	<i>4.83</i>	<i>4.81</i>	<i>4.87</i>	<i>4.94</i>	<b>19.03</b>	<i>19.17</i>	<i>19.45</i>
Net Imports .....	<b>0.74</b>	<b>0.68</b>	<b>0.69</b>	<i>0.74</i>	<i>0.77</i>	<i>0.75</i>	<i>0.75</i>	<i>0.82</i>	<i>0.83</i>	<i>0.80</i>	<i>0.81</i>	<i>0.87</i>	<b>2.84</b>	<i>3.08</i>	<i>3.31</i>
Supplemental Gaseous Fuels .....	<b>0.03</b>	<b>0.03</b>	<b>0.02</b>	<i>0.03</i>	<i>0.04</i>	<i>0.03</i>	<i>0.03</i>	<i>0.03</i>	<i>0.04</i>	<i>0.03</i>	<i>0.03</i>	<i>0.03</i>	<b>0.12</b>	<i>0.13</i>	<i>0.13</i>
Total New Supply .....	<b>5.53</b>	<b>5.42</b>	<b>5.47</b>	<i>5.57</i>	<i>5.56</i>	<i>5.52</i>	<i>5.58</i>	<i>5.72</i>	<i>5.69</i>	<i>5.65</i>	<i>5.71</i>	<i>5.85</i>	<b>21.99</b>	<i>22.38</i>	<i>22.90</i>
Underground Working Gas Storage															
Opening .....	<b>6.51</b>	<b>5.34</b>	<b>6.09</b>	<i>7.03</i>	<i>6.58</i>	<i>5.27</i>	<i>6.06</i>	<i>7.00</i>	<i>6.54</i>	<i>5.28</i>	<i>6.06</i>	<i>7.00</i>	<b>6.51</b>	<i>6.58</i>	<i>6.54</i>
Closing.....	<b>5.34</b>	<b>6.09</b>	<b>7.03</b>	<i>6.58</i>	<i>5.27</i>	<i>6.06</i>	<i>7.00</i>	<i>6.54</i>	<i>5.28</i>	<i>6.06</i>	<i>7.00</i>	<i>6.55</i>	<b>6.58</b>	<i>6.54</i>	<i>6.55</i>
Net Withdrawals .....	<b>1.18</b>	<b>-0.75</b>	<b>-0.95</b>	<i>0.45</i>	<i>1.31</i>	<i>-0.79</i>	<i>-0.94</i>	<i>0.46</i>	<i>1.26</i>	<i>-0.78</i>	<i>-0.94</i>	<i>0.46</i>	<b>-0.07</b>	<i>0.04</i>	<i>0.00</i>
Total Supply.....	<b>6.71</b>	<b>4.67</b>	<b>4.52</b>	<i>6.02</i>	<i>6.87</i>	<i>4.73</i>	<i>4.64</i>	<i>6.18</i>	<i>6.96</i>	<i>4.87</i>	<i>4.77</i>	<i>6.31</i>	<b>21.92</b>	<i>22.42</i>	<i>22.90</i>
Balancing Item <sup>a</sup> .....	<b>0.16</b>	<b>0.14</b>	<b>-0.03</b>	<i>-0.25</i>	<i>0.24</i>	<i>0.23</i>	<i>-0.03</i>	<i>-0.32</i>	<i>0.46</i>	<i>0.20</i>	<i>-0.05</i>	<i>-0.34</i>	<b>0.02</b>	<i>0.12</i>	<i>0.26</i>
Total Primary Supply .....	<b>6.87</b>	<b>4.81</b>	<b>4.49</b>	<i>5.77</i>	<i>7.11</i>	<i>4.96</i>	<i>4.61</i>	<i>5.86</i>	<i>7.42</i>	<i>5.06</i>	<i>4.71</i>	<i>5.96</i>	<b>21.94</b>	<i>22.54</i>	<i>23.16</i>
<b>Demand</b>															
Lease and Plant Fuel.....	<b>0.31</b>	<b>0.31</b>	<b>0.31</b>	<i>0.32</i>	<i>0.31</i>	<i>0.31</i>	<i>0.31</i>	<i>0.32</i>	<i>0.31</i>	<i>0.31</i>	<i>0.31</i>	<i>0.32</i>	<b>1.25</b>	<i>1.24</i>	<i>1.24</i>
Pipeline Use.....	<b>0.22</b>	<b>0.16</b>	<b>0.15</b>	<i>0.18</i>	<i>0.22</i>	<i>0.15</i>	<i>0.14</i>	<i>0.18</i>	<i>0.22</i>	<i>0.15</i>	<i>0.14</i>	<i>0.18</i>	<b>0.71</b>	<i>0.70</i>	<i>0.70</i>
Residential.....	<b>2.28</b>	<b>0.88</b>	<b>0.38</b>	<i>1.47</i>	<i>2.33</i>	<i>0.86</i>	<i>0.37</i>	<i>1.42</i>	<i>2.48</i>	<i>0.87</i>	<i>0.37</i>	<i>1.44</i>	<b>5.01</b>	<i>4.98</i>	<i>5.15</i>
Commercial.....	<b>1.27</b>	<b>0.62</b>	<b>0.41</b>	<i>0.92</i>	<i>1.32</i>	<i>0.62</i>	<i>0.42</i>	<i>0.91</i>	<i>1.41</i>	<i>0.63</i>	<i>0.43</i>	<i>0.92</i>	<b>3.21</b>	<i>3.27</i>	<i>3.39</i>
Industrial (Incl. Cogenerators) .....	<b>2.27</b>	<b>2.08</b>	<b>2.05</b>	<i>2.24</i>	<i>2.34</i>	<i>2.12</i>	<i>2.10</i>	<i>2.32</i>	<i>2.37</i>	<i>2.15</i>	<i>2.12</i>	<i>2.37</i>	<b>8.63</b>	<i>8.88</i>	<i>9.00</i>
Cogenerators <sup>b</sup> .....	<b>0.53</b>	<b>0.56</b>	<b>0.56</b>	<i>0.63</i>	<i>0.57</i>	<i>0.55</i>	<i>0.60</i>	<i>0.67</i>	<i>0.59</i>	<i>0.56</i>	<i>0.61</i>	<i>0.69</i>	<b>2.28</b>	<i>2.39</i>	<i>2.46</i>
Electricity Production															
Electric Utilities .....	<b>0.47</b>	<b>0.72</b>	<b>1.15</b>	<i>0.60</i>	<i>0.54</i>	<i>0.85</i>	<i>1.22</i>	<i>0.65</i>	<i>0.58</i>	<i>0.91</i>	<i>1.28</i>	<i>0.68</i>	<b>2.94</b>	<i>3.27</i>	<i>3.45</i>
Nonutilities (Excl. Cogen.) .....	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<i>0.05</i>	<i>0.05</i>	<i>0.05</i>	<i>0.05</i>	<i>0.06</i>	<i>0.05</i>	<i>0.05</i>	<i>0.05</i>	<i>0.06</i>	<b>0.20</b>	<i>0.20</i>	<i>0.21</i>
Total Demand .....	<b>6.87</b>	<b>4.81</b>	<b>4.49</b>	<i>5.77</i>	<i>7.11</i>	<i>4.96</i>	<i>4.61</i>	<i>5.86</i>	<i>7.42</i>	<i>5.06</i>	<i>4.71</i>	<i>5.96</i>	<b>21.94</b>	<i>22.54</i>	<i>23.16</i>

<sup>a</sup>The balancing item represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas demand.

<sup>b</sup>Quarterly estimates and projections for gas consumption by nonutility generators are based on estimates for quarterly gas-fired generation at nonutilities, supplied by the Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), Energy Information Administration (EIA), based on annual data reported to EIA on Form EIA-867 (Annual Nonutility Power Producer Report). Annual projections for nonutility gas consumption, as well as the detail on independent power producers' share of gas consumption, are provided by CNEAF.

Notes: Minor discrepancies with other EIA published historical data are due to rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration: latest data available from EIA databases supporting the following reports: *Natural Gas Monthly*, DOE/EIA-0130; *Electric Power Monthly*, DOE/EIA-0226; Projections: Energy Information Administration, Short-Term Integrated Forecasting System database, and Office of Oil and Gas, Reserves and Natural Gas Division.

**Table 9. U.S. Coal Supply and Demand: Mid World Oil Price Case**  
(Million Short Tons)

	1997				1998				1999				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1997	1998	1999
<b>Supply</b>															
Production .....	<b>273.9</b>	<b>269.7</b>	<b>271.3</b>	276.4	282.6	273.1	279.8	281.3	289.3	277.2	284.0	285.0	<b>1091.3</b>	1116.9	1135.5
Appalachia.....	<b>119.0</b>	<b>117.8</b>	<b>112.0</b>	118.3	120.8	115.3	113.2	118.3	121.5	115.0	112.5	117.6	<b>467.2</b>	467.5	466.7
Interior.....	<b>42.9</b>	<b>41.4</b>	<b>44.4</b>	43.5	42.7	40.2	44.0	42.1	42.1	39.1	42.8	40.6	<b>172.1</b>	169.0	164.5
Western.....	<b>112.0</b>	<b>110.5</b>	<b>114.9</b>	114.6	119.2	117.6	122.7	120.9	125.6	123.1	128.7	126.9	<b>452.0</b>	480.3	504.3
Primary Stock Levels <sup>a</sup>															
Opening.....	<b>28.6</b>	<b>37.5</b>	<b>42.5</b>	39.1	34.0	34.0	34.0	32.0	31.0	34.0	34.0	32.0	<b>28.6</b>	34.0	31.0
Closing.....	<b>37.5</b>	<b>42.5</b>	<b>39.1</b>	34.0	34.0	34.0	32.0	31.0	34.0	34.0	32.0	30.0	<b>34.0</b>	31.0	30.0
Net Withdrawals.....	<b>-8.9</b>	<b>-5.0</b>	<b>3.4</b>	5.1	(S)	(S)	2.0	1.0	-3.0	(S)	2.0	2.0	<b>-5.4</b>	3.0	1.0
Imports.....	<b>1.3</b>	<b>1.7</b>	<b>2.2</b>	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	<b>7.1</b>	7.2	7.3
Exports.....	<b>20.0</b>	<b>20.6</b>	<b>22.4</b>	20.6	20.7	21.3	21.6	21.5	20.8	21.4	21.6	21.5	<b>83.5</b>	85.1	85.3
Total Net Domestic Supply.....	<b>246.4</b>	<b>245.8</b>	<b>254.6</b>	262.8	263.7	253.6	262.1	262.7	267.3	257.6	266.2	267.3	<b>1009.5</b>	1042.0	1058.5
Secondary Stock Levels <sup>b</sup>															
Opening.....	<b>123.0</b>	<b>119.8</b>	<b>128.1</b>	110.2	106.6	112.9	120.9	107.3	108.5	110.5	118.7	105.5	<b>123.0</b>	106.6	108.5
Closing.....	<b>119.8</b>	<b>128.1</b>	<b>110.2</b>	106.6	112.9	120.9	107.3	108.5	110.5	118.7	105.5	107.6	<b>106.6</b>	108.5	107.6
Net Withdrawals.....	<b>3.2</b>	<b>-8.2</b>	<b>17.9</b>	3.7	-6.3	-8.1	13.6	-1.2	-2.0	-8.3	13.2	-2.1	<b>16.5</b>	-1.9	0.9
Total Supply .....	<b>249.5</b>	<b>237.6</b>	<b>272.4</b>	266.4	257.4	245.5	275.7	261.5	265.4	249.4	279.4	265.2	<b>1026.0</b>	1040.1	1059.4
<b>Demand</b>															
Coke Plants.....	<b>7.6</b>	<b>7.4</b>	<b>7.9</b>	8.2	7.8	7.6	7.9	8.3	8.1	7.9	7.8	8.1	<b>31.0</b>	31.6	31.8
Electricity Production															
Electric Utilities.....	<b>218.2</b>	<b>207.4</b>	<b>243.1</b>	229.8	225.1	215.4	245.6	228.4	232.2	219.0	249.2	231.9	<b>898.4</b>	914.5	932.3
Nonutilities (Excl. Cogen.) <sup>c</sup> .....	<b>6.5</b>	<b>6.5</b>	<b>6.5</b>	6.5	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	<b>26.0</b>	28.0	30.0
Retail and General Industry <sup>d</sup> .....	<b>20.2</b>	<b>18.3</b>	<b>18.1</b>	20.5	20.3	18.3	18.0	20.6	20.6	18.0	18.0	20.7	<b>77.2</b>	77.2	77.2
Total Demand.....	<b>252.5</b>	<b>239.5</b>	<b>275.6</b>	265.0	260.2	248.3	278.5	264.3	268.4	252.4	282.4	268.2	<b>1032.6</b>	1051.3	1071.4
Discrepancy <sup>e</sup> .....	<b>-2.9</b>	<b>-2.0</b>	<b>-3.2</b>	1.4	-2.8	-2.8	-2.8	-2.8	-3.0	-3.0	-3.0	-3.0	<b>-6.7</b>	-11.2	-12.0

<sup>a</sup>Primary stocks are held at the mines, preparation plants, and distribution points.

<sup>b</sup>Secondary stocks are held by users.

<sup>c</sup>Consumption of coal by Independent Power Producers (IPPs). In 1995, IPP consumption was estimated to be 5.290 million tons per quarter. Quarterly estimates and projections for coal consumption by nonutility generators are based on estimates for annual coal-fired generation at nonutilities, supplied by the Office of Coal, Nuclear, Electric and Alternate Fuels, Energy Information Administration (EIA), based on annual data reported to EIA on Form EIA-867 (Annual Nonutility Power Producer Report). Data for fourth quarter 1997 are estimates.

<sup>d</sup>Synfuels plant demand in 1993 was 1.7 million tons per quarter and is assumed to remain at that level in 1994, 1995, 1996, 1997 and 1998.

<sup>e</sup>Historical period discrepancy reflects an unaccounted-for shipper and receiver reporting difference. Estimated IPP consumption not included in production (waste coal) has been netted out of the discrepancy. The estimated annual consumption for 1995 is 8.496 million tons, 9.600 million tons in 1996, and the estimate for 1997 is 10.400 million tons, and 11.200 million tons in 1998.

(S) indicates amounts of less than 50,000 tons in absolute value.

Notes: Rows and columns may not add due to independent rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration: latest data available from EIA databases supporting the following reports: *Quarterly Coal Report*, DOE/EIA-0121, and *Electric Power Monthly*, DOE/EIA-0226. Projections: Energy Information Administration, Short-Term Integrated Forecasting System database, and Office of Coal, Nuclear, Electric and Alternate Fuels.

**Table 9. U.S. Coal Supply and Demand: Mid World Oil Price Case**  
(Million Short Tons)

	1997				1998				1999				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1997	1998	1999
<b>Supply</b>															
Production .....	<b>273.9</b>	<b>269.7</b>	<b>271.3</b>	276.4	282.6	273.1	279.8	281.3	289.3	277.2	284.0	285.0	<b>1091.3</b>	1116.9	1135.5
Appalachia.....	<b>119.0</b>	<b>117.8</b>	<b>112.0</b>	118.3	120.8	115.3	113.2	118.3	121.5	115.0	112.5	117.6	<b>467.2</b>	467.5	466.7
Interior.....	<b>42.9</b>	<b>41.4</b>	<b>44.4</b>	43.5	42.7	40.2	44.0	42.1	42.1	39.1	42.8	40.6	<b>172.1</b>	169.0	164.5
Western.....	<b>112.0</b>	<b>110.5</b>	<b>114.9</b>	114.6	119.2	117.6	122.7	120.9	125.6	123.1	128.7	126.9	<b>452.0</b>	480.3	504.3
Primary Stock Levels <sup>a</sup>															
Opening.....	<b>28.6</b>	<b>37.5</b>	<b>42.5</b>	39.1	34.0	34.0	34.0	32.0	31.0	34.0	34.0	32.0	<b>28.6</b>	34.0	31.0
Closing.....	<b>37.5</b>	<b>42.5</b>	<b>39.1</b>	34.0	34.0	34.0	32.0	31.0	34.0	34.0	32.0	30.0	<b>34.0</b>	31.0	30.0
Net Withdrawals.....	<b>-8.9</b>	<b>-5.0</b>	<b>3.4</b>	5.1	(S)	(S)	2.0	1.0	-3.0	(S)	2.0	2.0	<b>-5.4</b>	3.0	1.0
Imports.....	<b>1.3</b>	<b>1.7</b>	<b>2.2</b>	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	<b>7.1</b>	7.2	7.3
Exports.....	<b>20.0</b>	<b>20.6</b>	<b>22.4</b>	20.6	20.7	21.3	21.6	21.5	20.8	21.4	21.6	21.5	<b>83.5</b>	85.1	85.3
Total Net Domestic Supply.....	<b>246.4</b>	<b>245.8</b>	<b>254.6</b>	262.8	263.7	253.6	262.1	262.7	267.3	257.6	266.2	267.3	<b>1009.5</b>	1042.0	1058.5
Secondary Stock Levels <sup>b</sup>															
Opening.....	<b>123.0</b>	<b>119.8</b>	<b>128.1</b>	110.2	106.6	112.9	120.9	107.3	108.5	110.5	118.7	105.5	<b>123.0</b>	106.6	108.5
Closing.....	<b>119.8</b>	<b>128.1</b>	<b>110.2</b>	106.6	112.9	120.9	107.3	108.5	110.5	118.7	105.5	107.6	<b>106.6</b>	108.5	107.6
Net Withdrawals.....	<b>3.2</b>	<b>-8.2</b>	<b>17.9</b>	3.7	-6.3	-8.1	13.6	-1.2	-2.0	-8.3	13.2	-2.1	<b>16.5</b>	-1.9	0.9
Total Supply .....	<b>249.5</b>	<b>237.6</b>	<b>272.4</b>	266.4	257.4	245.5	275.7	261.5	265.4	249.4	279.4	265.2	<b>1026.0</b>	1040.1	1059.4
<b>Demand</b>															
Coke Plants.....	<b>7.6</b>	<b>7.4</b>	<b>7.9</b>	8.2	7.8	7.6	7.9	8.3	8.1	7.9	7.8	8.1	<b>31.0</b>	31.6	31.8
Electricity Production															
Electric Utilities.....	<b>218.2</b>	<b>207.4</b>	<b>243.1</b>	229.8	225.1	215.4	245.6	228.4	232.2	219.0	249.2	231.9	<b>898.4</b>	914.5	932.3
Nonutilities (Excl. Cogen.) <sup>c</sup> .....	<b>6.5</b>	<b>6.5</b>	<b>6.5</b>	6.5	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	<b>26.0</b>	28.0	30.0
Retail and General Industry <sup>d</sup> .....	<b>20.2</b>	<b>18.3</b>	<b>18.1</b>	20.5	20.3	18.3	18.0	20.6	20.6	18.0	18.0	20.7	<b>77.2</b>	77.2	77.2
Total Demand.....	<b>252.5</b>	<b>239.5</b>	<b>275.6</b>	265.0	260.2	248.3	278.5	264.3	268.4	252.4	282.4	268.2	<b>1032.6</b>	1051.3	1071.4
Discrepancy <sup>e</sup> .....	<b>-2.9</b>	<b>-2.0</b>	<b>-3.2</b>	1.4	-2.8	-2.8	-2.8	-2.8	-3.0	-3.0	-3.0	-3.0	<b>-6.7</b>	-11.2	-12.0

<sup>a</sup>Primary stocks are held at the mines, preparation plants, and distribution points.

<sup>b</sup>Secondary stocks are held by users.

<sup>c</sup>Consumption of coal by Independent Power Producers (IPPs). In 1995, IPP consumption was estimated to be 5.290 million tons per quarter. Quarterly estimates and projections for coal consumption by nonutility generators are based on estimates for annual coal-fired generation at nonutilities, supplied by the Office of Coal, Nuclear, Electric and Alternate Fuels, Energy Information Administration (EIA), based on annual data reported to EIA on Form EIA-867 (Annual Nonutility Power Producer Report). Data for fourth quarter 1997 are estimates.

<sup>d</sup>Synfuels plant demand in 1993 was 1.7 million tons per quarter and is assumed to remain at that level in 1994, 1995, 1996, 1997 and 1998.

<sup>e</sup>Historical period discrepancy reflects an unaccounted-for shipper and receiver reporting difference. Estimated IPP consumption not included in production (waste coal) has been netted out of the discrepancy. The estimated annual consumption for 1995 is 8.496 million tons, 9.600 million tons in 1996, and the estimate for 1997 is 10.400 million tons, and 11.200 million tons in 1998.

(S) indicates amounts of less than 50,000 tons in absolute value.

Notes: Rows and columns may not add due to independent rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration: latest data available from EIA databases supporting the following reports: *Quarterly Coal Report*, DOE/EIA-0121, and *Electric Power Monthly*, DOE/EIA-0226. Projections: Energy Information Administration, Short-Term Integrated Forecasting System database, and Office of Coal, Nuclear, Electric and Alternate Fuels.

**Table 10. U.S. Electricity Supply and Demand: Mid World Oil Price Case**  
(Billion Kilowatthours)

	1997				1998				1999				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1997	1998	1999
<b>Supply</b>															
Net Utility Generation															
Coal.....	<b>434.0</b>	<b>414.0</b>	<b>480.5</b>	460.5	451.6	432.7	490.9	456.9	466.0	439.4	497.4	463.5	<b>1789.0</b>	1832.1	1866.3
Petroleum.....	<b>17.6</b>	<b>15.4</b>	<b>24.6</b>	23.2	26.5	19.9	24.4	19.2	26.3	21.1	25.3	19.8	<b>80.8</b>	90.0	92.6
Natural Gas.....	<b>45.6</b>	<b>69.1</b>	<b>109.6</b>	57.0	51.7	82.0	117.7	62.7	55.8	87.5	123.4	64.9	<b>281.3</b>	314.1	331.5
Nuclear.....	<b>160.0</b>	<b>144.4</b>	<b>171.0</b>	153.7	163.9	153.0	178.5	161.2	171.2	154.2	179.8	162.4	<b>629.2</b>	656.6	667.7
Hydroelectric.....	<b>94.3</b>	<b>96.0</b>	<b>77.7</b>	70.7	78.5	80.6	65.6	64.0	73.8	77.2	63.7	63.5	<b>338.7</b>	288.7	278.2
Geothermal and Other <sup>a</sup> .....	<b>1.6</b>	<b>1.8</b>	<b>2.0</b>	2.0	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	<b>7.4</b>	6.8	6.3
Subtotal.....	<b>753.1</b>	<b>740.8</b>	<b>865.4</b>	767.1	773.9	769.9	878.8	765.7	794.7	780.9	891.3	775.8	<b>3126.4</b>	3188.3	3242.7
Nonutility Generation <sup>b</sup>															
Coal.....	<b>15.3</b>	<b>16.3</b>	<b>16.4</b>	18.4	16.6	15.9	17.3	19.3	17.0	16.3	17.7	19.8	<b>66.4</b>	69.1	70.8
Petroleum.....	<b>4.0</b>	<b>4.2</b>	<b>4.2</b>	4.7	4.4	4.2	4.6	5.1	4.7	4.5	4.9	5.5	<b>17.1</b>	18.4	19.6
Natural Gas.....	<b>49.2</b>	<b>52.5</b>	<b>52.8</b>	59.1	53.7	51.4	55.9	62.6	55.2	52.9	57.6	64.5	<b>213.7</b>	223.7	230.2
Other Gaseous Fuels <sup>c</sup> .....	<b>2.9</b>	<b>3.1</b>	<b>3.1</b>	3.5	3.0	2.9	3.1	3.5	3.0	2.9	3.1	3.5	<b>12.5</b>	12.5	12.6
Hydroelectric.....	<b>3.9</b>	<b>4.2</b>	<b>4.2</b>	4.7	4.4	4.2	4.5	5.1	4.6	4.4	4.7	5.3	<b>17.1</b>	18.2	19.0
Geothermal and Other <sup>d</sup> .....	<b>19.0</b>	<b>20.3</b>	<b>20.4</b>	22.9	20.3	19.4	21.2	23.7	20.5	19.6	21.3	23.9	<b>82.6</b>	84.6	85.3
Subtotal.....	<b>94.3</b>	<b>100.6</b>	<b>101.2</b>	113.3	102.3	98.0	106.7	119.4	104.9	100.5	109.4	122.5	<b>409.4</b>	426.4	437.4
Total Generation.....	<b>847.4</b>	<b>841.4</b>	<b>966.6</b>	880.4	876.2	867.9	985.4	885.2	899.7	881.5	1000.7	898.3	<b>3535.8</b>	3614.7	3680.1
Net Imports <sup>e</sup> .....	<b>7.5</b>	<b>8.9</b>	<b>11.8</b>	7.8	7.0	8.6	11.5	7.6	7.2	9.2	11.7	7.9	<b>36.1</b>	34.7	36.0
Total Supply.....	<b>854.9</b>	<b>850.3</b>	<b>978.4</b>	888.2	883.2	876.6	996.9	892.7	906.8	890.6	1012.4	906.2	<b>3571.8</b>	3649.3	3716.1
Losses and Unaccounted for <sup>f</sup> .....	<b>53.3</b>	<b>82.0</b>	<b>74.6</b>	67.9	52.0	75.1	69.5	68.4	53.3	76.2	70.6	69.4	<b>277.7</b>	265.0	269.5
<b>Demand</b>															
Electric Utility Sales															
Residential.....	<b>276.8</b>	<b>226.2</b>	<b>309.8</b>	259.8	287.9	245.8	319.5	258.8	300.9	252.6	327.6	264.9	<b>1072.6</b>	1112.0	1146.0
Commercial.....	<b>214.5</b>	<b>217.6</b>	<b>256.0</b>	226.3	222.4	226.1	262.0	227.3	228.3	229.8	265.6	229.9	<b>914.4</b>	937.9	953.6
Industrial.....	<b>248.0</b>	<b>259.5</b>	<b>269.8</b>	261.8	253.2	263.9	274.2	263.1	254.7	264.8	275.2	265.1	<b>1039.1</b>	1054.4	1059.8
Other.....	<b>23.4</b>	<b>23.6</b>	<b>26.7</b>	25.8	26.2	25.8	28.3	26.6	27.0	26.4	28.9	27.2	<b>99.4</b>	106.9	109.4
Subtotal.....	<b>762.8</b>	<b>726.9</b>	<b>862.2</b>	773.7	789.7	761.6	884.0	775.8	810.9	773.5	897.4	787.0	<b>3125.6</b>	3211.2	3268.9
Nonutility Gener. for Own Use <sup>g</sup> .....	<b>38.8</b>	<b>41.4</b>	<b>41.7</b>	46.6	41.5	39.8	43.3	48.5	42.6	40.9	44.5	49.8	<b>168.6</b>	173.1	177.7
Total Demand.....	<b>801.6</b>	<b>768.4</b>	<b>903.9</b>	820.3	831.2	801.4	927.4	824.3	853.6	814.4	941.8	836.8	<b>3294.2</b>	3384.3	3446.6
<b>Memo:</b>															
Nonutility Sales to															
Electric Utilities <sup>h</sup> .....	<i>55.5</i>	<i>59.2</i>	<i>59.5</i>	<i>66.6</i>	<i>60.7</i>	<i>58.2</i>	<i>63.3</i>	<i>70.9</i>	<i>62.3</i>	<i>59.7</i>	<i>65.0</i>	<i>72.7</i>	<b>240.8</b>	253.2	259.7

<sup>a</sup>"Other" includes generation from wind, wood, waste, and solar sources.

<sup>b</sup>Electricity from nonutility sources, including cogenerators and small power producers. Quarterly estimates and projections for nonutility net sales, own use, and generation by fuel source supplied by the Office of Coal, Nuclear, Electric and Alternate Fuels, Energy Information Administration (EIA), based on annual data reported to EIA on Form EIA-867, "Annual Nonutility Power Producer Report."

<sup>c</sup>Includes refinery still gas and other process or waste gases, and liquefied petroleum gases.

<sup>d</sup>Includes geothermal, solar, wind, wood, waste, nuclear, hydrogen, sulfur, batteries, chemicals and spent sulfite liquor.

<sup>e</sup>Data for 1996 are estimates.

<sup>f</sup>Balancing item, mainly transmission and distribution losses.

Notes: Minor discrepancies with other EIA published historical data are due to rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration: latest data available from EIA databases supporting the following reports: *Electric Power Monthly*, DOE/EIA-0226. Projections: Energy Information Administration, Short-Term Integrated Forecasting System database, and Office of Coal, Nuclear, Electric and Alternate Fuels.

**Table 11. U.S. Renewable Energy Use by Sector: Mid World Oil Price Case**  
(Quadrillion Btu)

	Year				Annual Percentage Change		
	1996	1997	1998	1999	1996-1997	1997-1998	1998-1999
<b>Electric Utilities</b>							
Hydroelectric Power <sup>a</sup> .....	<b>3.411</b>	<b>3.523</b>	<i>3.002</i>	<i>2.894</i>	<b>3.3</b>	<i>-14.8</i>	<i>-3.6</i>
Geothermal, Solar and Wind Energy <sup>b</sup> .....	<b>0.110</b>	<b>0.113</b>	<i>0.101</i>	<i>0.092</i>	<b>2.7</b>	<i>-10.6</i>	<i>-8.9</i>
Biofuels <sup>c</sup> .....	<b>0.020</b>	<b>0.021</b>	<i>0.020</i>	<i>0.020</i>	<b>5.0</b>	<i>-4.8</i>	<i>0.0</i>
Total .....	<b>3.541</b>	<b>3.657</b>	<i>3.123</i>	<i>3.006</i>	<b>3.3</b>	<i>-14.6</i>	<i>-3.7</i>
<b>Nonutility Power Generators</b>							
Hydroelectric Power <sup>a</sup> .....	<b>0.170</b>	<b>0.175</b>	<i>0.187</i>	<i>0.195</i>	<b>2.9</b>	<i>6.9</i>	<i>4.3</i>
Geothermal, Solar and Wind Energy <sup>b</sup> .....	<b>0.257</b>	<b>0.280</b>	<i>0.288</i>	<i>0.293</i>	<b>8.9</b>	<i>2.9</i>	<i>1.7</i>
Biofuels <sup>c</sup> .....	<b>0.597</b>	<b>0.634</b>	<i>0.647</i>	<i>0.650</i>	<b>6.2</b>	<i>2.1</i>	<i>0.5</i>
Total .....	<b>1.024</b>	<b>1.089</b>	<i>1.122</i>	<i>1.138</i>	<b>6.3</b>	<i>3.0</i>	<i>1.4</i>
Total Power Generation.....	<b>4.565</b>	<b>4.746</b>	<i>4.245</i>	<i>4.144</i>	<b>4.0</b>	<i>-10.6</i>	<i>-2.4</i>
<b>Other Sectors</b>							
Residential and Commercial <sup>d</sup> .....	<b>0.713</b>	<b>0.695</b>	<i>0.697</i>	<i>0.697</i>	<b>-2.5</b>	<i>0.3</i>	<i>0.0</i>
Industrial <sup>e</sup> .....	<b>1.546</b>	<b>1.586</b>	<i>1.620</i>	<i>1.620</i>	<b>2.6</b>	<i>2.1</i>	<i>0.0</i>
Transportation <sup>f</sup> .....	<b>0.082</b>	<b>0.103</b>	<i>0.108</i>	<i>0.115</i>	<b>25.6</b>	<i>4.9</i>	<i>6.5</i>
Total .....	<b>2.341</b>	<b>2.384</b>	<i>2.424</i>	<i>2.431</i>	<b>1.8</b>	<i>1.7</i>	<i>0.3</i>
Net Imported Electricity <sup>g</sup> .....	<b>0.307</b>	<b>0.291</b>	<i>0.280</i>	<i>0.291</i>	<b>-5.2</b>	<i>-3.8</i>	<i>3.9</i>
Total Renewable Energy Demand.....	<b>7.214</b>	<b>7.421</b>	<i>6.949</i>	<i>6.866</i>	<b>2.9</b>	<i>-6.4</i>	<i>-1.2</i>

<sup>a</sup>Conventional hydroelectric power only. Hydroelectricity generated by pumped storage is not included in renewable energy.

<sup>b</sup>Also includes photovoltaic and solar thermal energy.

<sup>c</sup>Biofuels are fuelwood, wood byproducts, waste wood, municipal solid waste, manufacturing process waste, and alcohol fuels.

<sup>d</sup>Includes biofuels and solar energy consumed in the residential and commercial sectors.

<sup>e</sup>Consists primarily of biofuels for use other than in electricity cogeneration.

<sup>f</sup>Ethanol blended into gasoline.

<sup>g</sup>Represents 78.6 percent of total electricity net imports, which is the proportion of total 1994 net imported electricity (0.459 quadrillion Btu) attributable to renewable sources (0.361 quadrillion Btu).

(S) Less than 500 billion Btu.

NM indicates percent change calculations are not meaningful or undefined at the precision level of this table.

Notes: Minor discrepancies with other published EIA historical data are due to independent rounding. Historical data are printed in bold, forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Estimates derived from Energy Information Administration, Short-Term Integrated Forecasting System database, and Office of Coal, Nuclear, Electric and Alternate Fuels Energy Information Administration, *Renewable Energy Annual, 1995*; Projections: Renewables growth in sectors other than electric utilities taken from Energy Information Administration, *Annual Energy Outlook* database and Office of Coal, Nuclear, Electric and Alternate Fuels, Energy Information Administration.

**Table A1. Annual U.S. Energy Supply and Demand**

	Year														
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Real Gross Domestic Product (GDP)</b> (billion chained 1992 dollars) .....	<b>5324</b>	<b>5488</b>	<b>5649</b>	<b>5865</b>	<b>6062</b>	<b>6136</b>	<b>6079</b>	<b>6244</b>	<b>6390</b>	<b>6611</b>	<b>6742</b>	<b>6928</b>	<b>7187</b>	<i>7345</i>	<i>7465</i>
Imported Crude Oil Price <sup>a</sup> (nominal dollars per barrel) .....	<b>26.99</b>	<b>14.00</b>	<b>18.13</b>	<b>14.57</b>	<b>18.08</b>	<b>21.75</b>	<b>18.70</b>	<b>18.20</b>	<b>16.14</b>	<b>15.52</b>	<b>17.14</b>	<b>20.61</b>	<b>18.61</b>	<i>15.15</i>	<i>15.42</i>
<b>Petroleum Supply</b>															
Crude Oil Production <sup>b</sup> (million barrels per day) .....	<b>8.97</b>	<b>8.68</b>	<b>8.35</b>	<b>8.14</b>	<b>7.61</b>	<b>7.36</b>	<b>7.42</b>	<b>7.17</b>	<b>6.85</b>	<b>6.66</b>	<b>6.56</b>	<b>6.46</b>	<b>6.41</b>	<i>6.38</i>	<i>6.36</i>
Total Petroleum Net Imports (including SPR) (million barrels per day) .....	<b>4.29</b>	<b>5.44</b>	<b>5.91</b>	<b>6.59</b>	<b>7.20</b>	<b>7.16</b>	<b>6.63</b>	<b>6.94</b>	<b>7.62</b>	<b>8.05</b>	<b>7.89</b>	<b>8.50</b>	<b>8.90</b>	<i>9.26</i>	<i>9.60</i>
<b>Energy Demand</b>															
World Petroleum (million barrels per day) .....	<b>60.1</b>	<b>61.8</b>	<b>63.1</b>	<b>64.9</b>	<b>65.9</b>	<b>66.0</b>	<b>66.6</b>	<b>66.8</b>	<b>67.0</b>	<b>68.3</b>	<b>69.9</b>	<b>71.5</b>	<b>73.4</b>	<i>75.3</i>	<i>77.3</i>
U.S. Petroleum (million barrels per day) .....	<b>15.78</b>	<b>16.33</b>	<b>16.72</b>	<b>17.34</b>	<b>17.37</b>	<b>17.04</b>	<b>16.77</b>	<b>17.10</b>	<b>17.24</b>	<b>17.72</b>	<b>17.72</b>	<b>18.31</b>	<b>18.57</b>	<i>18.98</i>	<i>19.29</i>
Natural Gas (trillion cubic feet) .....	<b>17.28</b>	<b>16.22</b>	<b>17.21</b>	<b>18.03</b>	<b>18.80</b>	<b>18.72</b>	<b>19.03</b>	<b>19.54</b>	<b>20.28</b>	<b>20.71</b>	<b>21.58</b>	<b>21.96</b>	<b>21.94</b>	<i>22.54</i>	<i>23.16</i>
Coal (million short tons) .....	<b>818</b>	<b>804</b>	<b>837</b>	<b>884</b>	<b>891</b>	<b>897</b>	<b>894</b>	<b>907</b>	<b>944</b>	<b>951</b>	<b>962</b>	<b>1007</b>	<b>1033</b>	<i>1049</i>	<i>1071</i>
Electricity (billion kilowatthours) Utility Sales <sup>c</sup> .....	<b>2324</b>	<b>2369</b>	<b>2457</b>	<b>2578</b>	<b>2647</b>	<b>2713</b>	<b>2762</b>	<b>2763</b>	<b>2861</b>	<b>2935</b>	<b>3013</b>	<b>3098</b>	<b>3126</b>	<i>3211</i>	<i>3269</i>
Nonutility Own Use <sup>d</sup> .....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>108</b>	<b>113</b>	<b>122</b>	<b>132</b>	<b>138</b>	<b>150</b>	<b>158</b>	<b>164</b>	<b>169</b>	<i>173</i>	<i>178</i>
Total .....	<b>2324</b>	<b>2369</b>	<b>2457</b>	<b>2578</b>	<b>2755</b>	<b>2826</b>	<b>2884</b>	<b>2895</b>	<b>3000</b>	<b>3085</b>	<b>3171</b>	<b>3262</b>	<b>3294</b>	<i>3384</i>	<i>3447</i>
Total Energy Demand <sup>e</sup> (quadrillion Btu) .....	<b>74.0</b>	<b>74.3</b>	<b>76.9</b>	<b>80.2</b>	<b>81.3</b>	<b>81.2</b>	<b>81.1</b>	<b>82.4</b>	<b>84.2</b>	<b>85.9</b>	<b>87.5</b>	<b>89.7</b>	<b>90.6</b>	<i>92.4</i>	<i>94.1</i>
Total Energy Demand per Dollar of GDP (thousand Btu per 1992 Dollar) .....	<b>13.90</b>	<b>13.54</b>	<b>13.61</b>	<b>13.68</b>	<b>13.42</b>	<b>13.23</b>	<b>13.33</b>	<b>13.20</b>	<b>13.17</b>	<b>12.99</b>	<b>12.98</b>	<b>12.95</b>	<b>12.61</b>	<i>12.58</i>	<i>12.61</i>
Adjusted Total Energy Demand <sup>e</sup> (quadrillion Btu) .....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>84.1</b>	<b>84.0</b>	<b>85.5</b>	<b>87.3</b>	<b>89.2</b>	<b>90.9</b>	<b>93.9</b>	<b>94.5</b>	<i>96.1</i>	<i>97.9</i>
Adjusted Total Energy Demand per Dollar of GDP (thousand Btu per 1992 Dollar) .....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>13.70</b>	<b>13.82</b>	<b>13.70</b>	<b>13.67</b>	<b>13.49</b>	<b>13.49</b>	<b>13.56</b>	<b>13.15</b>	<i>13.08</i>	<i>13.11</i>

<sup>a</sup>Refers to the imported cost of crude oil to U.S. refiners.

<sup>b</sup>Includes lease condensate.

<sup>c</sup>Total annual electric utility sales for historical periods are derived from the sum of monthly sales figures based on submissions by electric utilities of Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions." These historical values differ from annual sales totals based on Form EIA-861, reported in several EIA publications, but match alternate annual totals reported in EIA's *Electric Power Monthly*, DOE/EIA-0226.

<sup>d</sup>Defined as the difference between total nonutility electricity generation and sales to electric utilities by nonutility generators, reported on Form EIA-867, "Annual Nonutility Power Producer Report." Data for 1997 are estimates.

<sup>e</sup>"Total Energy Demand" refers to the aggregate energy concept presented in Energy Information Administration, *Annual Energy Review*, 1995, DOE/EIA-0384(95), Table 1.1 for the period 1960 to 1989. Adjusted "Total Energy Demand" refers to the aggregate energy demand concept reported in the same table for 1990 and beyond. The former concept is extended here in order to provide a more consistent long-term energy demand series. The latter concept is more comprehensive and is intended as the primary energy demand aggregate for assessing energy intensity trends since 1990. The adjusted measure incorporates information on renewable energy consumption among households, commercial establishments, and electricity generating facilities other than electric utilities (including industrial cogenerators). The conversion from physical units to Btu is calculated using a subset of conversion factors used in the calculations performed for gross energy consumption in Energy Information Administration, *Monthly Energy Review (MER)*. Consequently, the historical data may not precisely match those published in the *MER* or the *AER*.

Notes: SPR: Strategic Petroleum Reserve. Minor discrepancies with other published EIA historical data are due to independent rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Latest data available from Bureau of Economic Analysis; Energy Information Administration; latest data available from EIA databases supporting the following reports: *Petroleum Supply Monthly*, DOE/EIA-0109; *Petroleum Supply Annual*, DOE/EIA-0340/2; *Natural Gas Monthly*, DOE/EIA-0130; *Electric Power Monthly*, DOE/EIA-0226; and *Quarterly Coal Report*, DOE/EIA-0121; *International Petroleum Statistics Report* DOE/EIA-520; *Weekly Petroleum Status Report* DOE/EIA-0208. Macroeconomic projections are based on DRI/McGraw-Hill Forecast CONTROL1297.



**Table A2. Annual U.S. Macroeconomic and Weather Indicators**

	Year														
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Macroeconomic</b>															
Real Gross Domestic Product (billion chained 1992 dollars) .....	<b>5324</b>	<b>5488</b>	<b>5649</b>	<b>5865</b>	<b>6062</b>	<b>6136</b>	<b>6079</b>	<b>6244</b>	<b>6390</b>	<b>6611</b>	<b>6742</b>	<b>6928</b>	<b>7187</b>	<i>7345</i>	<i>7465</i>
GDP Implicit Price Deflator (Index, 1992=1.000).....	<b>0.786</b>	<b>0.806</b>	<b>0.831</b>	<b>0.861</b>	<b>0.897</b>	<b>0.936</b>	<b>0.973</b>	<b>1.000</b>	<b>1.026</b>	<b>1.051</b>	<b>1.078</b>	<b>1.102</b>	<b>1.125</b>	<i>1.144</i>	<i>1.164</i>
Real Disposable Personal Income (billion chained 1992 Dollars).....	<b>3972</b>	<b>4101</b>	<b>4168</b>	<b>4332</b>	<b>4417</b>	<b>4498</b>	<b>4500</b>	<b>4627</b>	<b>4704</b>	<b>4805</b>	<b>4964</b>	<b>5077</b>	<b>5220</b>	<i>5398</i>	<i>5519</i>
Manufacturing Production (Index, 1987=1.000).....	<b>0.857</b>	<b>0.881</b>	<b>0.928</b>	<b>0.971</b>	<b>0.990</b>	<b>0.985</b>	<b>0.962</b>	<b>1.000</b>	<b>1.037</b>	<b>1.094</b>	<b>1.132</b>	<b>1.164</b>	<b>1.224</b>	<i>1.262</i>	<i>1.272</i>
Real Fixed Investment (billion chained 1992 dollars) .....	<b>799</b>	<b>805</b>	<b>799</b>	<b>818</b>	<b>832</b>	<b>806</b>	<b>741</b>	<b>783</b>	<b>843</b>	<b>916</b>	<b>962</b>	<b>1042</b>	<b>1125</b>	<i>1201</i>	<i>1234</i>
Real Exchange Rate (Index, 1990=1.000).....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>1.000</b>	<b>1.006</b>	<b>1.012</b>	<b>1.056</b>	<b>1.033</b>	<b>0.960</b>	<b>1.015</b>	<b>1.097</b>	<i>1.086</i>	<i>1.050</i>
Business Inventory Change (billion chained 1992 dollars) .....	<b>-4.5</b>	<b>-4.2</b>	<b>5.1</b>	<b>9.5</b>	<b>19.2</b>	<b>6.6</b>	<b>-6.1</b>	<b>-9.2</b>	<b>6.1</b>	<b>11.1</b>	<b>7.8</b>	<b>9.9</b>	<b>20.2</b>	<i>4.7</i>	<i>-3.4</i>
Producer Price Index (index, 1980-1984=1.000).....	<b>1.032</b>	<b>1.002</b>	<b>1.028</b>	<b>1.069</b>	<b>1.122</b>	<b>1.163</b>	<b>1.165</b>	<b>1.172</b>	<b>1.189</b>	<b>1.205</b>	<b>1.248</b>	<b>1.277</b>	<b>1.275</b>	<i>1.276</i>	<i>1.286</i>
Consumer Price Index (index, 1980-1984=1.000).....	<b>1.076</b>	<b>1.097</b>	<b>1.137</b>	<b>1.184</b>	<b>1.240</b>	<b>1.308</b>	<b>1.363</b>	<b>1.404</b>	<b>1.446</b>	<b>1.483</b>	<b>1.525</b>	<b>1.570</b>	<b>1.606</b>	<i>1.634</i>	<i>1.668</i>
Petroleum Product Price Index (index, 1980-1984=1.000).....	<b>0.832</b>	<b>0.532</b>	<b>0.568</b>	<b>0.539</b>	<b>0.612</b>	<b>0.748</b>	<b>0.671</b>	<b>0.647</b>	<b>0.620</b>	<b>0.591</b>	<b>0.608</b>	<b>0.701</b>	<b>0.681</b>	<i>0.583</i>	<i>0.577</i>
Non-Farm Employment (millions).....	<b>97.4</b>	<b>99.3</b>	<b>102.0</b>	<b>105.2</b>	<b>107.9</b>	<b>109.4</b>	<b>108.3</b>	<b>108.6</b>	<b>110.7</b>	<b>114.1</b>	<b>117.2</b>	<b>119.5</b>	<b>122.2</b>	<i>124.6</i>	<i>126.0</i>
Commercial Employment (millions).....	<b>60.8</b>	<b>62.9</b>	<b>65.2</b>	<b>67.8</b>	<b>70.0</b>	<b>71.3</b>	<b>70.8</b>	<b>71.2</b>	<b>73.2</b>	<b>76.1</b>	<b>78.8</b>	<b>81.0</b>	<b>83.5</b>	<i>85.5</i>	<i>86.9</i>
Total Industrial Production (index, 1987=1.000).....	<b>0.880</b>	<b>0.890</b>	<b>0.931</b>	<b>0.973</b>	<b>0.990</b>	<b>0.989</b>	<b>0.969</b>	<b>1.000</b>	<b>1.034</b>	<b>1.086</b>	<b>1.121</b>	<b>1.152</b>	<b>1.206</b>	<i>1.239</i>	<i>1.249</i>
Housing Stock (millions).....	<b>96.3</b>	<b>98.0</b>	<b>99.8</b>	<b>101.6</b>	<b>102.9</b>	<b>103.5</b>	<b>104.5</b>	<b>105.5</b>	<b>106.8</b>	<b>108.2</b>	<b>109.8</b>	<b>111.2</b>	<b>112.7</b>	<i>114.2</i>	<i>115.6</i>
<b>Weather <sup>a</sup></b>															
Heating Degree-Days															
U.S. ....	<b>4642</b>	<b>4295</b>	<b>4334</b>	<b>4653</b>	<b>4726</b>	<b>4016</b>	<b>4200</b>	<b>4441</b>	<b>4700</b>	<b>4483</b>	<b>4531</b>	<b>4713</b>	<b>4605</b>	<i>4441</i>	<i>4576</i>
New England .....	<b>6571</b>	<b>6517</b>	<b>6546</b>	<b>6715</b>	<b>6887</b>	<b>5848</b>	<b>5960</b>	<b>6844</b>	<b>6728</b>	<b>6672</b>	<b>6559</b>	<b>6679</b>	<b>6765</b>	<i>6459</i>	<i>6621</i>
Middle Atlantic .....	<b>5660</b>	<b>5665</b>	<b>5699</b>	<b>6088</b>	<b>6134</b>	<b>4998</b>	<b>5177</b>	<b>5964</b>	<b>5948</b>	<b>5934</b>	<b>5831</b>	<b>5986</b>	<b>5900</b>	<i>5627</i>	<i>5839</i>
U.S. Gas-Weighted .....	<b>4856</b>	<b>4442</b>	<b>4391</b>	<b>4779</b>	<b>4856</b>	<b>4139</b>	<b>4337</b>	<b>4458</b>	<b>4754</b>	<b>4659</b>	<b>4707</b>	<b>5040</b>	<b>4886</b>	<i>4597</i>	<i>4732</i>
Cooling Degree-Days (U.S.) .....	<b>1194</b>	<b>1249</b>	<b>1269</b>	<b>1283</b>	<b>1156</b>	<b>1260</b>	<b>1331</b>	<b>1040</b>	<b>1218</b>	<b>1220</b>	<b>1293</b>	<b>1180</b>	<b>1123</b>	<i>1190</i>	<i>1193</i>

<sup>a</sup>Population-weighted degree days. A degree day indicates the temperature variation from 65 degrees Fahrenheit (calculated as the simple average of the daily minimum and maximum temperatures) weighted by 1990 population. Normal is used for the forecast period and is defined as the average number of degree days between 1961 and 1990 for a given period.

Notes: Historical data are printed in bold; forecasts are in italics.

Sources: Historical data: latest data available from: U.S. Department of Commerce, Bureau of Economic Analysis; U.S. Department of Commerce, National Oceanic and Atmospheric Administration; Federal Reserve System, *Statistical Release G.17*(419); U.S. Department of Transportation; American Iron and Steel Institute. Macroeconomic projections are based on DRI/McGraw-Hill Forecast CONTROL1297.

**Table A3. Annual International Petroleum Supply and Demand Balance**  
(Millions Barrels per Day, Except OECD Commercial Stocks)

	Year														
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Demand <sup>a</sup></b>															
OECD															
U.S. (50 States) .....	15.8	16.3	16.7	17.3	17.4	17.0	16.8	17.1	17.2	17.7	17.7	18.3	18.6	19.0	19.3
Europe <sup>b</sup> .....	11.7	12.1	12.3	12.4	12.5	12.6	13.4	13.6	13.5	13.6	14.1	14.3	14.4	14.6	14.8
Japan .....	4.4	4.4	4.5	4.8	5.0	5.1	5.3	5.4	5.4	5.7	5.7	5.9	5.8	5.8	5.9
Other OECD .....	2.5	2.5	2.5	2.6	2.7	2.7	2.7	2.7	2.8	2.9	3.0	3.0	3.1	3.2	3.3
Total OECD .....	34.3	35.3	36.0	37.1	37.6	37.5	38.1	38.8	39.0	39.9	40.6	41.4	41.9	42.5	43.2
Non-OECD															
Former Soviet Union .....	9.0	9.0	9.0	8.9	8.7	8.4	8.3	6.8	5.6	4.8	4.6	4.4	4.5	4.7	4.9
Europe .....	2.2	2.2	2.2	2.2	2.1	1.9	1.4	1.3	1.3	1.3	1.3	1.3	1.4	1.5	1.6
China .....	1.9	2.0	2.1	2.3	2.4	2.3	2.5	2.7	3.0	3.1	3.3	3.5	3.9	4.2	4.4
Other Asia .....	3.6	3.8	4.1	4.4	4.9	5.3	5.7	6.2	6.8	7.3	7.9	8.3	8.8	9.1	9.5
Other Non-OECD .....	9.1	9.5	9.7	10.0	10.3	10.5	10.6	11.0	11.4	11.8	12.2	12.5	12.9	13.3	13.7
Total Non-OECD .....	25.8	26.5	27.1	27.7	28.3	28.5	28.5	28.0	28.1	28.4	29.4	30.1	31.5	32.8	34.1
Total World Demand .....	60.1	61.8	63.1	64.9	66.0	66.0	66.6	66.8	67.0	68.3	69.9	71.5	73.4	75.3	77.3
<b>Supply <sup>c</sup></b>															
OECD															
U.S. (50 States) .....	11.2	11.0	10.7	10.5	9.9	9.7	9.9	9.8	9.6	9.4	9.4	9.4	9.4	9.4	9.4
Canada .....	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.7
North Sea <sup>d</sup> .....	3.6	3.8	3.8	3.8	3.7	3.9	4.1	4.5	4.8	5.5	5.9	6.3	6.2	6.5	7.0
Other OECD .....	1.4	1.4	1.4	1.5	1.4	1.5	1.5	1.4	1.4	1.5	1.5	1.5	1.6	1.7	1.7
Total OECD .....	18.1	17.9	17.9	17.8	17.1	17.1	17.5	17.9	18.0	18.7	19.2	19.7	19.9	20.2	20.9
Non-OECD															
OPEC .....	17.2	19.3	19.6	21.5	23.3	24.5	24.6	25.8	26.6	27.0	27.6	28.3	29.9	30.5	31.0
Former Soviet Union .....	11.9	12.3	12.5	12.5	12.1	11.4	10.4	8.9	8.0	7.3	7.1	7.1	7.2	7.3	7.4
China .....	2.5	2.6	2.7	2.7	2.8	2.8	2.8	2.8	2.9	2.9	3.0	3.1	3.2	3.3	3.3
Mexico .....	3.0	2.8	2.9	2.9	2.9	3.0	3.2	3.2	3.2	3.2	3.1	3.3	3.4	3.6	3.6
Other Non-OECD .....	6.6	11.0	6.9	7.3	7.7	8.0	8.1	8.4	8.7	9.2	9.9	10.2	10.4	10.9	11.5
Total Non-OECD .....	41.2	43.9	44.6	47.0	48.9	49.7	49.1	49.1	49.4	49.6	50.7	52.0	54.2	55.5	56.8
Total World Supply .....	59.3	61.8	62.5	64.8	65.9	66.8	66.7	67.0	67.4	68.3	69.9	71.8	74.0	75.7	77.6
Total Stock Withdrawals .....	0.8	0.0	0.6	0.1	0.0	-0.8	-0.1	-0.2	-0.3	0.1	0.1	-0.2	-0.6	-0.4	-0.3
OECD Comm. Stocks, End (bill. bbls.) .....	2.6	2.7	2.7	2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.8	2.8
Net Exports from Former Soviet Union .....	3.0	3.4	3.5	3.6	3.4	3.0	2.1	2.1	2.3	2.4	2.5	2.7	2.7	2.6	2.5

<sup>a</sup>Demand for petroleum by the OECD countries is synonymous with "petroleum product supplied," which is defined in the glossary of the EIA *Petroleum Supply Monthly*, DOE/EIA-0109. Demand for petroleum by the non-OECD countries is "apparent consumption," which includes internal consumption, refinery fuel and loss, and bunkering.

<sup>b</sup>OECD Europe includes the former East Germany.

<sup>c</sup>Includes production of crude oil (including lease condensates), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources.

<sup>d</sup>Includes offshore supply from Denmark, Germany, the Netherlands, Norway, and the United Kingdom.

OECD: Organization for Economic Cooperation and Development: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, the Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and the United States. Mexico is also a member but OECD data do not yet include Mexico.

OPEC: Organization of Petroleum Exporting Countries: Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

SPR: Strategic Petroleum Reserve

Former Soviet Union: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine and Uzbekistan.

Notes: Minor discrepancies with other published EIA historical data are due to rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Energy Information Administration: latest data available from EIA databases supporting the following reports: *International Petroleum Statistics Report*, DOE/EIA-0520, and Organization for Economic Cooperation and Development, Annual and Monthly Oil Statistics Database.

**Table A4. Annual Average U.S. Energy Prices**  
(Nominal Dollars)

	Year														
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Imported Crude Oil <sup>a</sup></b>															
(dollars per barrel).....	28.88	26.99	14.00	14.57	18.08	21.75	18.70	18.20	16.14	15.52	17.14	20.61	18.61	15.15	15.42
<b>Natural Gas Wellhead</b>															
(dollars per thousand cubic feet).....	2.51	1.94	1.66	1.69	1.69	1.71	1.64	1.74	2.04	1.85	1.55	2.16	2.43	2.11	2.06
<b>Petroleum Products</b>															
Gasoline Retail <sup>b</sup>															
(dollars per gallon) .....	1.20	0.93	0.96	0.96	1.06	1.22	1.20	1.19	1.17	1.17	1.21	1.29	1.29	1.19	1.19
No. 2 Diesel Oil, Retail															
(dollars per gallon) .....	1.16	0.88	0.93	0.91	0.99	1.16	1.12	1.10	1.11	1.11	1.10	1.23	1.19	1.10	1.10
No. 2 Heating Oil, Wholesale															
(dollars per gallon) .....	0.78	0.49	0.53	0.47	0.56	0.70	0.62	0.58	0.54	0.51	0.51	0.64	0.59	0.49	0.51
No. 2 Heating Oil, Retail															
(dollars per gallon) .....	1.05	0.84	0.80	0.81	0.90	1.06	1.02	0.93	0.91	0.89	0.87	0.99	0.99	0.88	0.90
No. 6 Residual Fuel Oil, Retail <sup>c</sup>															
(dollars per barrel).....	25.57	14.46	17.76	14.04	16.20	18.66	14.32	14.21	14.00	14.79	16.49	18.97	17.79	14.71	14.98
<b>Electric Utility Fuels</b>															
Coal															
(dollars per million Btu) .....	1.65	1.58	1.51	1.47	1.44	1.45	1.45	1.41	1.38	1.36	1.32	1.29	1.27	1.25	1.23
Heavy Fuel Oil <sup>d</sup>															
(dollars per million Btu) .....	4.26	2.40	2.98	2.41	2.85	3.22	2.49	2.46	2.36	2.40	2.60	3.01	2.80	2.38	2.42
Natural Gas															
(dollars per million Btu) .....	3.43	2.35	2.24	2.26	2.36	2.32	2.15	2.33	2.56	2.23	1.98	2.64	2.78	2.42	2.38
<b>Other Residential</b>															
Natural Gas															
(dollars per thousand cubic feet).....	6.12	5.83	5.55	5.47	5.64	5.80	5.82	5.89	6.17	6.41	6.06	6.35	6.93	6.64	6.66
Electricity															
(cents per kilowatthour).....	7.8	7.4	7.4	7.5	7.6	7.8	8.1	8.2	8.3	8.4	8.4	8.4	8.5	8.4	8.3

<sup>a</sup>Refiner acquisition cost (RAC) of imported crude oil.

<sup>b</sup>Average for all grades and services.

<sup>c</sup>Average for all sulfur contents.

<sup>d</sup>Includes fuel oils No. 4, No. 5, and No. 6 and topped crude fuel oil prices.

Notes: Prices exclude taxes, except prices for gasoline, residential natural gas, and diesel. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration; latest data available from EIA databases supporting the following reports: *Petroleum Marketing Monthly*, DOE/EIA-0380; *Natural Gas Monthly*, DOE/EIA-0130; *Monthly Energy Review*, DOE/EIA-0035; *Electric Power Monthly*, DOE/EIA-0226.

**Table A5. Annual U.S. Petroleum Supply and Demand**  
(Million Barrels per Day, Except Closing Stocks)

	Year														
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Supply</b>															
Crude Oil Supply															
Domestic Production <sup>a</sup> .....	<b>8.97</b>	<b>8.68</b>	<b>8.35</b>	<b>8.14</b>	<b>7.61</b>	<b>7.36</b>	<b>7.42</b>	<b>7.17</b>	<b>6.85</b>	<b>6.66</b>	<b>6.56</b>	<b>6.46</b>	<b>6.41</b>	<i>6.38</i>	<i>6.36</i>
Alaska .....	<b>1.83</b>	<b>1.87</b>	<b>1.96</b>	<b>2.02</b>	<b>1.87</b>	<b>1.77</b>	<b>1.80</b>	<b>1.71</b>	<b>1.58</b>	<b>1.56</b>	<b>1.48</b>	<b>1.39</b>	<b>1.30</b>	<i>1.19</i>	<i>1.19</i>
Lower 48 .....	<b>7.15</b>	<b>6.81</b>	<b>6.39</b>	<b>6.12</b>	<b>5.74</b>	<b>5.58</b>	<b>5.62</b>	<b>5.46</b>	<b>5.26</b>	<b>5.10</b>	<b>5.08</b>	<b>5.07</b>	<b>5.11</b>	<i>5.19</i>	<i>5.16</i>
Net Imports (including SPR) <sup>b</sup> .....	<b>3.00</b>	<b>4.02</b>	<b>4.52</b>	<b>4.95</b>	<b>5.70</b>	<b>5.79</b>	<b>5.67</b>	<b>5.99</b>	<b>6.69</b>	<b>6.96</b>	<b>7.14</b>	<b>7.40</b>	<b>7.89</b>	<i>7.95</i>	<i>8.23</i>
Other SPR Supply .....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<i>0.00</i>	<i>0.00</i>
Stock Draw (Including SPR) .....	<b>-0.05</b>	<b>-0.08</b>	<b>-0.12</b>	<b>0.00</b>	<b>-0.09</b>	<b>0.02</b>	<b>-0.01</b>	<b>0.01</b>	<b>-0.06</b>	<b>-0.02</b>	<b>0.09</b>	<b>0.05</b>	<b>-0.07</b>	<i>0.00</i>	<i>0.00</i>
Product Supplied and Losses .....	<b>-0.06</b>	<b>-0.05</b>	<b>-0.03</b>	<b>-0.04</b>	<b>-0.03</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.01</b>	<b>-0.01</b>	<b>-0.01</b>	<b>-0.01</b>	<b>-0.01</b>	<b>0.00</b>	<i>-0.01</i>	<i>-0.01</i>
Unaccounted-for Crude Oil .....	<b>0.15</b>	<b>0.14</b>	<b>0.14</b>	<b>0.20</b>	<b>0.20</b>	<b>0.26</b>	<b>0.20</b>	<b>0.26</b>	<b>0.17</b>	<b>0.27</b>	<b>0.19</b>	<b>0.22</b>	<b>0.39</b>	<i>0.29</i>	<i>0.28</i>
Total Crude Oil Supply .....	<b>12.00</b>	<b>12.72</b>	<b>12.85</b>	<b>13.25</b>	<b>13.40</b>	<b>13.41</b>	<b>13.30</b>	<b>13.41</b>	<b>13.61</b>	<b>13.87</b>	<b>13.97</b>	<b>14.19</b>	<b>14.63</b>	<i>14.62</i>	<i>14.86</i>
Other Supply															
NGL Production .....	<b>1.61</b>	<b>1.55</b>	<b>1.59</b>	<b>1.62</b>	<b>1.55</b>	<b>1.56</b>	<b>1.66</b>	<b>1.70</b>	<b>1.74</b>	<b>1.73</b>	<b>1.76</b>	<b>1.83</b>	<b>1.84</b>	<i>1.87</i>	<i>1.87</i>
Other Hydrocarbon and Alcohol Inputs .....	<b>0.11</b>	<b>0.11</b>	<b>0.12</b>	<b>0.11</b>	<b>0.11</b>	<b>0.13</b>	<b>0.15</b>	<b>0.20</b>	<b>0.25</b>	<b>0.26</b>	<b>0.30</b>	<b>0.31</b>	<b>0.34</b>	<i>0.32</i>	<i>0.33</i>
Crude Oil Product Supplied .....	<b>0.06</b>	<b>0.05</b>	<b>0.03</b>	<b>0.04</b>	<b>0.03</b>	<b>0.02</b>	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<i>0.01</i>	<i>0.01</i>
Processing Gain .....	<b>0.56</b>	<b>0.62</b>	<b>0.64</b>	<b>0.66</b>	<b>0.66</b>	<b>0.70</b>	<b>0.71</b>	<b>0.77</b>	<b>0.76</b>	<b>0.77</b>	<b>0.77</b>	<b>0.84</b>	<b>0.84</b>	<i>0.82</i>	<i>0.84</i>
Net Product Imports <sup>c</sup> .....	<b>1.29</b>	<b>1.41</b>	<b>1.39</b>	<b>1.63</b>	<b>1.50</b>	<b>1.38</b>	<b>0.96</b>	<b>0.94</b>	<b>0.93</b>	<b>1.09</b>	<b>0.75</b>	<b>1.10</b>	<b>1.01</b>	<i>1.31</i>	<i>1.37</i>
Product Stock Withdrawn or Added (-) .....	<b>0.15</b>	<b>-0.12</b>	<b>0.09</b>	<b>0.03</b>	<b>0.13</b>	<b>-0.14</b>	<b>-0.04</b>	<b>0.06</b>	<b>-0.05</b>	<b>0.00</b>	<b>0.15</b>	<b>0.03</b>	<b>-0.10</b>	<i>0.04</i>	<i>0.01</i>
Total Supply .....	<b>15.78</b>	<b>16.33</b>	<b>16.72</b>	<b>17.33</b>	<b>17.37</b>	<b>17.05</b>	<b>16.76</b>	<b>17.10</b>	<b>17.25</b>	<b>17.72</b>	<b>17.72</b>	<b>18.31</b>	<b>18.56</b>	<i>18.98</i>	<i>19.29</i>
<b>Demand</b>															
Motor Gasoline <sup>d</sup> .....	<b>6.78</b>	<b>6.94</b>	<b>7.19</b>	<b>7.36</b>	<b>7.40</b>	<b>7.31</b>	<b>7.23</b>	<b>7.38</b>	<b>7.48</b>	<b>7.60</b>	<b>7.79</b>	<b>7.89</b>	<b>8.01</b>	<i>8.27</i>	<i>8.43</i>
Jet Fuel .....	<b>1.22</b>	<b>1.31</b>	<b>1.38</b>	<b>1.45</b>	<b>1.49</b>	<b>1.52</b>	<b>1.47</b>	<b>1.45</b>	<b>1.47</b>	<b>1.53</b>	<b>1.51</b>	<b>1.58</b>	<b>1.60</b>	<i>1.65</i>	<i>1.68</i>
Distillate Fuel Oil .....	<b>2.87</b>	<b>2.91</b>	<b>2.98</b>	<b>3.12</b>	<b>3.16</b>	<b>3.02</b>	<b>2.92</b>	<b>2.98</b>	<b>3.04</b>	<b>3.16</b>	<b>3.21</b>	<b>3.37</b>	<b>3.43</b>	<i>3.54</i>	<i>3.57</i>
Residual Fuel Oil .....	<b>1.20</b>	<b>1.42</b>	<b>1.26</b>	<b>1.38</b>	<b>1.37</b>	<b>1.23</b>	<b>1.16</b>	<b>1.09</b>	<b>1.08</b>	<b>1.02</b>	<b>0.85</b>	<b>0.85</b>	<b>0.80</b>	<i>0.88</i>	<i>0.91</i>
Other Oils <sup>e</sup> .....	<b>3.71</b>	<b>3.75</b>	<b>3.90</b>	<b>4.03</b>	<b>3.95</b>	<b>3.95</b>	<b>3.99</b>	<b>4.20</b>	<b>4.17</b>	<b>4.41</b>	<b>4.36</b>	<b>4.63</b>	<b>4.72</b>	<i>4.64</i>	<i>4.70</i>
Total Demand .....	<b>15.78</b>	<b>16.33</b>	<b>16.72</b>	<b>17.34</b>	<b>17.37</b>	<b>17.04</b>	<b>16.77</b>	<b>17.10</b>	<b>17.24</b>	<b>17.72</b>	<b>17.72</b>	<b>18.31</b>	<b>18.57</b>	<i>18.98</i>	<i>19.29</i>
Total Petroleum Net Imports .....	<b>4.29</b>	<b>5.44</b>	<b>5.91</b>	<b>6.59</b>	<b>7.20</b>	<b>7.16</b>	<b>6.63</b>	<b>6.94</b>	<b>7.62</b>	<b>8.05</b>	<b>7.89</b>	<b>8.50</b>	<b>8.90</b>	<i>9.26</i>	<i>9.60</i>
Closing Stocks (million barrels)															
Crude Oil (excluding SPR) .....	<b>321</b>	<b>331</b>	<b>349</b>	<b>330</b>	<b>341</b>	<b>323</b>	<b>325</b>	<b>318</b>	<b>335</b>	<b>337</b>	<b>303</b>	<b>284</b>	<b>308</b>	<i>307</i>	<i>307</i>
Total Motor Gasoline .....	<b>223</b>	<b>233</b>	<b>226</b>	<b>228</b>	<b>213</b>	<b>220</b>	<b>219</b>	<b>216</b>	<b>226</b>	<b>215</b>	<b>202</b>	<b>195</b>	<b>209</b>	<i>200</i>	<i>200</i>
Jet Fuel .....	<b>40</b>	<b>50</b>	<b>50</b>	<b>44</b>	<b>41</b>	<b>52</b>	<b>49</b>	<b>43</b>	<b>40</b>	<b>47</b>	<b>40</b>	<b>40</b>	<b>44</b>	<i>44</i>	<i>44</i>
Distillate Fuel Oil .....	<b>144</b>	<b>155</b>	<b>134</b>	<b>124</b>	<b>106</b>	<b>132</b>	<b>144</b>	<b>141</b>	<b>141</b>	<b>145</b>	<b>130</b>	<b>127</b>	<b>135</b>	<i>132</i>	<i>131</i>
Residual Fuel Oil .....	<b>50</b>	<b>47</b>	<b>47</b>	<b>45</b>	<b>44</b>	<b>49</b>	<b>50</b>	<b>43</b>	<b>44</b>	<b>42</b>	<b>37</b>	<b>46</b>	<b>40</b>	<i>42</i>	<i>42</i>
Other Oils <sup>f</sup> .....	<b>247</b>	<b>265</b>	<b>260</b>	<b>267</b>	<b>257</b>	<b>261</b>	<b>267</b>	<b>263</b>	<b>273</b>	<b>275</b>	<b>258</b>	<b>250</b>	<b>265</b>	<i>261</i>	<i>257</i>

<sup>a</sup>Includes lease condensate.

<sup>b</sup>Net imports equals gross imports plus SPR imports minus exports.

<sup>c</sup>Includes finished petroleum products, unfinished oils, gasoline blending components, and natural gas plant liquids for processing.

<sup>d</sup>For years prior to 1993, motor gasoline includes an estimate of fuel ethanol blended into gasoline and certain product reclassifications, not reported elsewhere in EIA. See Appendix B in Energy Information Administration, *Short-Term Energy Outlook*, EIA/DOE-0202(93/3Q), for details on this adjustment.

<sup>e</sup>Includes crude oil product supplied, natural gas liquids, liquefied refinery gas, other liquids, and all finished petroleum products except motor gasoline, jet fuel, distillate, and residual fuel oil.

<sup>f</sup>Includes stocks of all other oils, such as aviation gasoline, kerosene, natural gas liquids (including ethane), aviation gasoline blending components, naphtha and other oils for petrochemical feedstock use, special naphthas, lube oils, wax, coke, asphalt, road oil, and miscellaneous oils.

SPR: Strategic Petroleum Reserve

NGL: Natural Gas Liquids

Notes: Minor discrepancies with other EIA published historical data are due to rounding. Historical data are printed in bold, forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration: latest data available from EIA databases supporting the following reports: *Petroleum Supply Monthly*, DOE/EIA-0109, and *Weekly Petroleum Status Report*, DOE/EIA-0208.

**Table A6. Annual U.S. Natural Gas Supply and Demand**  
(Trillion Cubic Feet)

	Year														
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Supply</b>															
Total Dry Gas Production .....	<b>16.45</b>	<b>16.06</b>	<b>16.62</b>	<b>17.10</b>	<b>17.31</b>	<b>17.81</b>	<b>17.70</b>	<b>17.84</b>	<b>18.10</b>	<b>18.82</b>	<b>18.60</b>	<b>18.79</b>	<b>19.03</b>	<i>19.17</i>	<i>19.45</i>
Net Imports.....	<b>0.89</b>	<b>0.69</b>	<b>0.94</b>	<b>1.22</b>	<b>1.27</b>	<b>1.45</b>	<b>1.64</b>	<b>1.92</b>	<b>2.21</b>	<b>2.46</b>	<b>2.69</b>	<b>2.78</b>	<b>2.84</b>	<i>3.08</i>	<i>3.31</i>
Supplemental Gaseous Fuels.....	<b>0.13</b>	<b>0.11</b>	<b>0.10</b>	<b>0.10</b>	<b>0.11</b>	<b>0.12</b>	<b>0.11</b>	<b>0.12</b>	<b>0.12</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.12</b>	<i>0.13</i>	<i>0.13</i>
Total New Supply.....	<b>17.47</b>	<b>16.86</b>	<b>17.66</b>	<b>18.42</b>	<b>18.69</b>	<b>19.38</b>	<b>19.45</b>	<b>19.88</b>	<b>20.42</b>	<b>21.39</b>	<b>21.40</b>	<b>21.69</b>	<b>21.99</b>	<i>22.38</i>	<i>22.90</i>
Total Underground Storage															
Opening.....	<b>6.71</b>	<b>6.45</b>	<b>6.57</b>	<b>6.55</b>	<b>6.65</b>	<b>6.33</b>	<b>6.94</b>	<b>6.78</b>	<b>6.64</b>	<b>6.65</b>	<b>6.97</b>	<b>6.50</b>	<b>6.51</b>	<i>6.58</i>	<i>6.54</i>
Closing .....	<b>6.45</b>	<b>6.57</b>	<b>6.55</b>	<b>6.65</b>	<b>6.33</b>	<b>6.94</b>	<b>6.78</b>	<b>6.64</b>	<b>6.65</b>	<b>6.97</b>	<b>6.50</b>	<b>6.51</b>	<b>6.58</b>	<i>6.54</i>	<i>6.55</i>
Net Withdrawals.....	<b>0.26</b>	<b>-0.12</b>	<b>0.02</b>	<b>-0.10</b>	<b>0.33</b>	<b>-0.61</b>	<b>0.16</b>	<b>0.14</b>	<b>-0.01</b>	<b>-0.32</b>	<b>0.46</b>	<b>-0.01</b>	<b>-0.07</b>	<i>0.04</i>	<i>0.00</i>
Total Supply .....	<b>17.73</b>	<b>16.74</b>	<b>17.68</b>	<b>18.32</b>	<b>19.02</b>	<b>18.77</b>	<b>19.61</b>	<b>20.02</b>	<b>20.42</b>	<b>21.08</b>	<b>21.86</b>	<b>21.68</b>	<b>21.92</b>	<i>22.42</i>	<i>22.90</i>
Balancing Item <sup>a</sup> .....	<b>-0.45</b>	<b>-0.52</b>	<b>-0.47</b>	<b>-0.29</b>	<b>-0.22</b>	<b>-0.05</b>	<b>-0.58</b>	<b>-0.47</b>	<b>-0.14</b>	<b>-0.37</b>	<b>-0.28</b>	<b>0.29</b>	<b>0.02</b>	<i>0.12</i>	<i>0.26</i>
Total Primary Supply.....	<b>17.28</b>	<b>16.22</b>	<b>17.21</b>	<b>18.03</b>	<b>18.80</b>	<b>18.72</b>	<b>19.03</b>	<b>19.54</b>	<b>20.28</b>	<b>20.71</b>	<b>21.58</b>	<b>21.96</b>	<b>21.94</b>	<i>22.54</i>	<i>23.16</i>
<b>Demand</b>															
Lease and Plant Fuel .....	<b>0.97</b>	<b>0.92</b>	<b>1.15</b>	<b>1.10</b>	<b>1.07</b>	<b>1.24</b>	<b>1.13</b>	<b>1.17</b>	<b>1.17</b>	<b>1.12</b>	<b>1.22</b>	<b>1.25</b>	<b>1.25</b>	<i>1.24</i>	<i>1.24</i>
Pipeline Use .....	<b>0.50</b>	<b>0.49</b>	<b>0.52</b>	<b>0.61</b>	<b>0.63</b>	<b>0.66</b>	<b>0.60</b>	<b>0.59</b>	<b>0.62</b>	<b>0.69</b>	<b>0.70</b>	<b>0.71</b>	<b>0.71</b>	<i>0.70</i>	<i>0.70</i>
Residential .....	<b>4.43</b>	<b>4.31</b>	<b>4.31</b>	<b>4.63</b>	<b>4.78</b>	<b>4.39</b>	<b>4.56</b>	<b>4.69</b>	<b>4.96</b>	<b>4.85</b>	<b>4.85</b>	<b>5.24</b>	<b>5.01</b>	<i>4.98</i>	<i>5.15</i>
Commercial .....	<b>2.43</b>	<b>2.32</b>	<b>2.43</b>	<b>2.67</b>	<b>2.72</b>	<b>2.62</b>	<b>2.73</b>	<b>2.80</b>	<b>2.86</b>	<b>2.90</b>	<b>3.03</b>	<b>3.16</b>	<b>3.21</b>	<i>3.27</i>	<i>3.39</i>
Industrial (Incl. Nonutilities).....	<b>5.90</b>	<b>5.58</b>	<b>5.95</b>	<b>6.38</b>	<b>6.82</b>	<b>7.02</b>	<b>7.23</b>	<b>7.53</b>	<b>7.98</b>	<b>8.17</b>	<b>8.58</b>	<b>8.87</b>	<b>8.83</b>	<i>9.09</i>	<i>9.21</i>
Cogenerators <sup>b</sup> .....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.12</b>	<b>1.30</b>	<b>1.41</b>	<b>1.67</b>	<b>1.80</b>	<b>1.98</b>	<b>2.18</b>	<b>2.09</b>	<b>2.28</b>	<i>2.39</i>	<i>2.46</i>
Other Nonutil. Gen. <sup>b</sup> .....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.06</b>	<b>0.09</b>	<b>0.16</b>	<b>0.18</b>	<b>0.22</b>	<b>0.17</b>	<b>0.17</b>	<b>0.18</b>	<b>0.20</b>	<i>0.20</i>	<i>0.21</i>
Electric Utilities.....	<b>3.04</b>	<b>2.60</b>	<b>2.84</b>	<b>2.64</b>	<b>2.79</b>	<b>2.79</b>	<b>2.79</b>	<b>2.77</b>	<b>2.68</b>	<b>2.99</b>	<b>3.20</b>	<b>2.73</b>	<b>2.94</b>	<i>3.27</i>	<i>3.45</i>
Total Demand.....	<b>17.28</b>	<b>16.22</b>	<b>17.21</b>	<b>18.03</b>	<b>18.80</b>	<b>18.72</b>	<b>19.03</b>	<b>19.54</b>	<b>20.28</b>	<b>20.71</b>	<b>21.58</b>	<b>21.96</b>	<b>21.94</b>	<i>22.54</i>	<i>23.16</i>

<sup>a</sup>The balancing item represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas demand.

<sup>b</sup>Annual projections for nonutility gas consumption, as well as the detail on independent power producers' share of gas consumption, are provided by the office of Coal, Nuclear, Electric and Alternative Fuels, Energy Information Administration.

Notes: Minor discrepancies with other EIA published historical data are due to rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration; latest data available from EIA databases supporting the following reports: *Natural Gas Monthly*, DOE/EIA-0130; *Electric Power Monthly*, DOE/EIA-0226; Projections: Energy Information Administration, Short-Term Integrated Forecasting System database, and Office of Oil and Gas, Reserves and Natural Gas Division.

**Table A7. Annual U.S. Coal Supply and Demand**  
(Million Short Tons)

	Year														
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Supply</b>															
Production .....	<b>883.6</b>	<b>890.3</b>	<b>918.8</b>	<b>950.3</b>	<b>980.7</b>	<b>1029.1</b>	<b>996.0</b>	<b>997.5</b>	<b>945.4</b>	<b>1033.5</b>	<b>1033.0</b>	<b>1063.9</b>	<b>1091.3</b>	<i>1116.9</i>	<i>1135.5</i>
Appalachia .....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>464.8</b>	<b>489.0</b>	<b>457.8</b>	<b>456.6</b>	<b>409.7</b>	<b>445.4</b>	<b>434.9</b>	<b>451.9</b>	<b>467.2</b>	<i>467.5</i>	<i>466.7</i>
Interior .....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>198.1</b>	<b>205.8</b>	<b>195.4</b>	<b>195.7</b>	<b>167.2</b>	<b>179.9</b>	<b>168.5</b>	<b>172.8</b>	<b>172.1</b>	<i>169.0</i>	<i>164.5</i>
Western .....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>317.9</b>	<b>334.3</b>	<b>342.8</b>	<b>345.3</b>	<b>368.5</b>	<b>408.3</b>	<b>429.6</b>	<b>439.1</b>	<b>452.0</b>	<i>480.3</i>	<i>504.3</i>
Primary Stock Levels <sup>a</sup>															
Opening .....	<b>34.1</b>	<b>33.1</b>	<b>32.1</b>	<b>28.3</b>	<b>30.4</b>	<b>29.0</b>	<b>33.4</b>	<b>33.0</b>	<b>34.0</b>	<b>25.3</b>	<b>33.2</b>	<b>34.4</b>	<b>28.6</b>	<i>34.0</i>	<i>31.0</i>
Closing .....	<b>33.1</b>	<b>32.1</b>	<b>28.3</b>	<b>30.4</b>	<b>29.0</b>	<b>33.4</b>	<b>33.0</b>	<b>34.0</b>	<b>25.3</b>	<b>33.2</b>	<b>34.4</b>	<b>28.6</b>	<b>34.0</b>	<i>31.0</i>	<i>30.0</i>
Net Withdrawals .....	<b>1.0</b>	<b>1.0</b>	<b>3.8</b>	<b>-2.1</b>	<b>1.4</b>	<b>-4.4</b>	<b>0.4</b>	<b>-1.0</b>	<b>8.7</b>	<b>-7.9</b>	<b>-1.2</b>	<b>5.8</b>	<b>-5.4</b>	<i>3.0</i>	<i>1.0</i>
Imports .....	<b>2.0</b>	<b>2.2</b>	<b>1.7</b>	<b>2.1</b>	<b>2.9</b>	<b>2.7</b>	<b>3.4</b>	<b>3.8</b>	<b>7.3</b>	<b>7.6</b>	<b>7.2</b>	<b>7.1</b>	<b>7.1</b>	<i>7.2</i>	<i>7.3</i>
Exports .....	<b>92.7</b>	<b>85.5</b>	<b>79.6</b>	<b>95.0</b>	<b>100.8</b>	<b>105.8</b>	<b>109.0</b>	<b>102.5</b>	<b>74.5</b>	<b>71.4</b>	<b>88.5</b>	<b>90.5</b>	<b>83.5</b>	<i>85.1</i>	<i>85.3</i>
Total Net Domestic Supply .....	<b>793.9</b>	<b>808.0</b>	<b>844.7</b>	<b>855.3</b>	<b>884.2</b>	<b>921.6</b>	<b>890.9</b>	<b>897.8</b>	<b>886.9</b>	<b>961.8</b>	<b>950.4</b>	<b>986.3</b>	<b>1009.5</b>	<i>1042.0</i>	<i>1058.5</i>
Secondary Stock Levels <sup>b</sup>															
Opening .....	<b>197.2</b>	<b>170.2</b>	<b>175.2</b>	<b>185.5</b>	<b>158.4</b>	<b>146.1</b>	<b>168.2</b>	<b>167.7</b>	<b>163.7</b>	<b>120.5</b>	<b>136.1</b>	<b>134.6</b>	<b>123.0</b>	<i>106.6</i>	<i>108.5</i>
Closing .....	<b>170.2</b>	<b>175.2</b>	<b>185.5</b>	<b>158.4</b>	<b>146.1</b>	<b>168.2</b>	<b>167.7</b>	<b>163.7</b>	<b>120.5</b>	<b>136.1</b>	<b>134.6</b>	<b>123.0</b>	<b>106.6</b>	<i>108.5</i>	<i>107.6</i>
Net Withdrawals .....	<b>27.0</b>	<b>-5.0</b>	<b>-10.2</b>	<b>27.0</b>	<b>12.3</b>	<b>-22.1</b>	<b>0.5</b>	<b>4.0</b>	<b>43.2</b>	<b>-15.7</b>	<b>1.5</b>	<b>11.6</b>	<b>16.5</b>	<i>-1.9</i>	<i>0.9</i>
Total Supply	<b>820.8</b>	<b>803.1</b>	<b>834.4</b>	<b>882.3</b>	<b>896.5</b>	<b>899.4</b>	<b>891.4</b>	<b>901.8</b>	<b>930.2</b>	<b>946.1</b>	<b>951.9</b>	<b>997.9</b>	<b>1026.0</b>	<i>1040.1</i>	<i>1059.4</i>
<b>Demand</b>															
Coke Plants .....	<b>41.1</b>	<b>35.9</b>	<b>37.0</b>	<b>41.9</b>	<b>40.5</b>	<b>38.9</b>	<b>33.9</b>	<b>32.4</b>	<b>31.3</b>	<b>31.7</b>	<b>33.0</b>	<b>31.7</b>	<b>31.0</b>	<i>31.6</i>	<i>31.8</i>
Electricity Production															
Electric Utilities .....	<b>693.8</b>	<b>685.1</b>	<b>717.9</b>	<b>758.4</b>	<b>766.9</b>	<b>773.5</b>	<b>772.3</b>	<b>779.9</b>	<b>813.5</b>	<b>817.3</b>	<b>829.0</b>	<b>874.7</b>	<b>898.4</b>	<i>914.5</i>	<i>932.3</i>
Nonutilities (Excl. Cogen.) .....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>0.9</b>	<b>1.6</b>	<b>6.0</b>	<b>14.8</b>	<b>17.8</b>	<b>20.9</b>	<b>21.2</b>	<b>24.0</b>	<b>26.0</b>	<i>28.0</i>	<i>30.0</i>
Retail and General Industry <sup>c</sup> .....	<b>83.2</b>	<b>83.3</b>	<b>82.1</b>	<b>83.4</b>	<b>82.3</b>	<b>83.1</b>	<b>81.5</b>	<b>80.2</b>	<b>81.1</b>	<b>81.2</b>	<b>78.6</b>	<b>76.4</b>	<b>77.2</b>	<i>77.2</i>	<i>77.2</i>
Total Demand <sup>d</sup> .....	<b>818.0</b>	<b>804.2</b>	<b>836.9</b>	<b>883.6</b>	<b>890.6</b>	<b>897.1</b>	<b>893.6</b>	<b>907.3</b>	<b>943.7</b>	<b>951.1</b>	<b>961.8</b>	<b>1006.8</b>	<b>1032.6</b>	<i>1051.3</i>	<i>1071.4</i>
Discrepancy <sup>e</sup> .....	<b>2.8</b>	<b>-1.2</b>	<b>-2.5</b>	<b>-1.3</b>	<b>5.9</b>	<b>2.4</b>	<b>-2.3</b>	<b>-5.4</b>	<b>-13.5</b>	<b>-4.9</b>	<b>-9.9</b>	<b>-8.9</b>	<b>-6.7</b>	<i>-11.2</i>	<i>-12.0</i>

<sup>a</sup>Primary stocks are held at the mines, preparation plants, and distribution points.

<sup>b</sup>Secondary stocks are held by users.

<sup>c</sup>Synfuels plant demand in 1993 was 1.7 million tons per quarter and is assumed to remain at that level in 1994, 1995, 1996, 1997 and 1998.

<sup>d</sup>Total excludes any shipments to independent power producers (IPPs) not calculated in Retail and General Industry for years prior to 1993.

<sup>e</sup>Historical period discrepancy reflects an unaccounted-for shipper and receiver reporting difference. It also includes any shipment to IPPs not captured in Retail and General Industry and consumption by IPPs not included in production (waste coal).

(S) indicates amounts of less than 50,000 tons.

Notes: Rows and columns may not add due to independent rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration; latest data available from EIA databases supporting the following reports: *Quarterly Coal Report*, DOE/EIA-0121, and *Electric Power Monthly*, DOE/EIA-0226. Projections: Energy Information Administration, Short-Term Integrated Forecasting System database, and Office of Coal, Nuclear, Electric and Alternate Fuels.

**Table A8. Annual U.S. Electricity Supply and Demand**  
(Billion Kilowatthours)

	Year														
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Supply</b>															
Net Utility Generation															
Coal.....	<b>1402.1</b>	<b>1385.8</b>	<b>1463.8</b>	<b>1540.7</b>	<b>1553.7</b>	<b>1559.6</b>	<b>1551.2</b>	<b>1575.9</b>	<b>1639.2</b>	<b>1635.5</b>	<b>1652.9</b>	<b>1737.5</b>	<b>1789.0</b>	<i>1832.1</i>	<i>1866.3</i>
Petroleum.....	<b>100.2</b>	<b>136.6</b>	<b>118.5</b>	<b>148.9</b>	<b>158.3</b>	<b>117.0</b>	<b>111.5</b>	<b>88.9</b>	<b>99.5</b>	<b>91.0</b>	<b>60.8</b>	<b>67.3</b>	<b>80.8</b>	<i>90.0</i>	<i>92.6</i>
Natural Gas.....	<b>291.9</b>	<b>248.5</b>	<b>272.6</b>	<b>252.8</b>	<b>266.6</b>	<b>264.1</b>	<b>264.2</b>	<b>263.9</b>	<b>258.9</b>	<b>291.1</b>	<b>307.3</b>	<b>262.7</b>	<b>281.3</b>	<i>314.1</i>	<i>331.5</i>
Nuclear.....	<b>383.7</b>	<b>414.0</b>	<b>455.3</b>	<b>527.0</b>	<b>529.4</b>	<b>576.9</b>	<b>612.6</b>	<b>618.8</b>	<b>610.3</b>	<b>640.4</b>	<b>673.4</b>	<b>674.7</b>	<b>629.2</b>	<i>656.6</i>	<i>667.7</i>
Hydroelectric.....	<b>281.1</b>	<b>290.8</b>	<b>249.7</b>	<b>222.9</b>	<b>265.1</b>	<b>279.9</b>	<b>275.5</b>	<b>239.6</b>	<b>265.1</b>	<b>243.7</b>	<b>293.7</b>	<b>328.0</b>	<b>338.7</b>	<i>288.7</i>	<i>278.2</i>
Geothermal and Other <sup>a</sup> .....	<b>10.7</b>	<b>11.5</b>	<b>12.3</b>	<b>12.0</b>	<b>11.3</b>	<b>10.7</b>	<b>10.1</b>	<b>10.2</b>	<b>9.6</b>	<b>8.9</b>	<b>6.4</b>	<b>7.2</b>	<b>7.4</b>	<i>6.8</i>	<i>6.3</i>
Subtotal.....	<b>2469.8</b>	<b>2487.3</b>	<b>2572.1</b>	<b>2704.3</b>	<b>2784.3</b>	<b>2808.2</b>	<b>2825.0</b>	<b>2797.2</b>	<b>2882.5</b>	<b>2910.7</b>	<b>2994.5</b>	<b>3077.4</b>	<b>3126.4</b>	<i>3188.3</i>	<i>3242.7</i>
Nonutility Generation <sup>b</sup> .....	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>221.8</b>	<b>253.7</b>	<b>296.0</b>	<b>325.5</b>	<b>354.9</b>	<b>374.4</b>	<b>382.5</b>	<b>409.4</b>	<i>426.4</i>	<i>437.4</i>
Total Generation.....	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>3030.0</b>	<b>3078.7</b>	<b>3093.2</b>	<b>3208.1</b>	<b>3265.6</b>	<b>3369.0</b>	<b>3460.0</b>	<b>3535.8</b>	<i>3614.7</i>	<i>3680.1</i>
Net Imports.....	<b>40.9</b>	<b>35.9</b>	<b>46.3</b>	<b>31.8</b>	<b>11.0</b>	<b>2.0</b>	<b>22.3</b>	<b>28.3</b>	<b>28.4</b>	<b>44.6</b>	<b>37.6</b>	<b>38.0</b>	<b>36.1</b>	<i>34.7</i>	<i>36.0</i>
Total Supply.....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>2986.6</b>	<b>3032.0</b>	<b>3101.0</b>	<b>3121.6</b>	<b>3236.5</b>	<b>3310.3</b>	<b>3406.6</b>	<b>3498.0</b>	<b>3571.8</b>	<i>3649.3</i>	<i>3716.1</i>
Losses and Unaccounted for <sup>c</sup> .....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>231.4</b>	<b>206.1</b>	<b>217.1</b>	<b>226.6</b>	<b>236.9</b>	<b>225.5</b>	<b>235.4</b>	<b>236.2</b>	<b>277.7</b>	<i>265.0</i>	<i>269.5</i>
<b>Demand</b>															
Electric Utility Sales															
Residential.....	<b>793.9</b>	<b>819.1</b>	<b>850.4</b>	<b>892.9</b>	<b>905.5</b>	<b>924.0</b>	<b>955.4</b>	<b>935.9</b>	<b>994.8</b>	<b>1008.5</b>	<b>1042.5</b>	<b>1082.5</b>	<b>1072.6</b>	<i>1112.0</i>	<i>1146.0</i>
Commercial.....	<b>606.0</b>	<b>630.5</b>	<b>660.4</b>	<b>699.1</b>	<b>725.9</b>	<b>751.0</b>	<b>765.7</b>	<b>761.3</b>	<b>794.6</b>	<b>820.3</b>	<b>862.7</b>	<b>887.4</b>	<b>914.4</b>	<i>937.9</i>	<i>953.6</i>
Industrial.....	<b>836.8</b>	<b>830.5</b>	<b>858.2</b>	<b>896.5</b>	<b>925.7</b>	<b>945.5</b>	<b>946.6</b>	<b>972.7</b>	<b>977.2</b>	<b>1008.0</b>	<b>1012.7</b>	<b>1030.4</b>	<b>1039.1</b>	<i>1054.4</i>	<i>1059.8</i>
Other.....	<b>87.3</b>	<b>88.6</b>	<b>88.2</b>	<b>89.6</b>	<b>89.8</b>	<b>92.0</b>	<b>94.3</b>	<b>93.4</b>	<b>94.9</b>	<b>97.8</b>	<b>95.4</b>	<b>97.5</b>	<b>99.4</b>	<i>106.9</i>	<i>109.4</i>
Subtotal.....	<b>2324.0</b>	<b>2368.8</b>	<b>2457.3</b>	<b>2578.1</b>	<b>2646.8</b>	<b>2712.6</b>	<b>2762.0</b>	<b>2763.4</b>	<b>2861.5</b>	<b>2934.6</b>	<b>3013.3</b>	<b>3097.8</b>	<b>3125.6</b>	<i>3211.2</i>	<i>3268.9</i>
Nonutility Own Use <sup>b</sup> .....	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>113.4</b>	<b>121.9</b>	<b>131.6</b>	<b>138.1</b>	<b>150.2</b>	<b>157.9</b>	<b>164.0</b>	<b>168.6</b>	<i>173.1</i>	<i>177.7</i>
Total Demand.....	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>#N/A</b>	<b>2825.9</b>	<b>2883.9</b>	<b>2895.0</b>	<b>2999.6</b>	<b>3084.8</b>	<b>3171.2</b>	<b>3261.8</b>	<b>3294.2</b>	<i>3384.3</i>	<i>3446.6</i>
<b>Memo:</b>															
Nonutility Sales															
to Electric Utilities <sup>d</sup> .....	<b>26.0</b>	<b>39.9</b>	<b>50.0</b>	<b>68.0</b>	<b>83.0</b>	<b>108.5</b>	<b>131.9</b>	<b>164.4</b>	<b>187.4</b>	<b>204.7</b>	<b>216.5</b>	<b>218.5</b>	<b>240.8</b>	<i>253.2</i>	<i>259.7</i>

<sup>a</sup>Other includes generation from wind, wood, waste, and solar sources.

<sup>b</sup>For 1989 to 1991, estimates for nonutility generation are estimates made by the Energy Markets and Contingency Information Division, based on Form EIA-867 data. Historical data and Projections for the same items are from the Office of Coal, Nuclear, Electric and Alternate Fuels, Energy Information Administration, based on Form EIA-867 (Annual Nonutility Power Producer Report).

<sup>c</sup>Balancing item, mainly transmission and distribution losses.

<sup>d</sup>Historical data for nonutility sales to electric utilities are from the Energy Information Administration, *Annual Energy Review*, DOE/EIA-0389, Table 8.1, for 1982 to 1988; from Form EIA-867 (Annual Nonutility Power Producer Report) for 1989 to 1996.

Notes: Minor discrepancies with other EIA published historical data are due to rounding. Historical data are printed in bold; forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: Historical data: Energy Information Administration: latest data available from EIA databases supporting the following reports: *Electric Power Monthly*, DOE/EIA-0226. Projections: Energy Information Administration, Short-Term Integrated Forecasting System database, and Office of Coal, Nuclear, Electric and Alternate Fuels.