

 **Short-Term Energy Outlook**

April 2005

2005 Summer Motor Gasoline Outlook (Figure 1)

[Gasoline prices](#) in 2005 are projected to remain high, at an expected average of \$2.28 per gallon for the April to September summer season, 38 cents above last summer. Similar high motor gasoline prices are expected through 2006. Monthly average prices are projected to peak at about \$2.35 per gallon in May. Summer diesel fuel prices are expected to average \$2.24 per gallon. As in 2004, the primary factor behind these price increases is crude oil costs. WTI, for example, is projected to average 37 cents per gallon higher than last summer. High world oil demand will continue to support crude oil prices and increase competition for gasoline imports. In the United States, additional changes in gasoline specifications and tight refinery capacity can be expected to increase operating costs slightly and limit supply flexibility, adding further pressure on pump prices. Motor gasoline demand is projected to reach an average of 9.3 million barrels per day this summer, up 1.8 percent from last summer. Despite high prices, demand is expected to continue to rise due to the increasing number of drivers and vehicles and increasing per-capita vehicle miles traveled. (See [Summer 2005 Motor Gasoline Outlook](#))

Crude Oil and Petroleum Products (Figures 2 to 8)

The average [West Texas Intermediate \(WTI\)](#) crude oil price for the first quarter of 2005 was \$49.77 per barrel, approximately \$14.50 per barrel higher than in the first quarter of 2004 and \$1.10 per barrel above the first quarter 2005 projection in the previous *Outlook*. WTI prices are projected to remain above \$50 per barrel for the rest of 2005 and 2006. Oil prices are likely to be sensitive to any incremental oil market tightness. Imbalances (real or perceived) in light product markets could cause light crude oil prices to increase to levels above the \$55 per barrel average projected in the *Outlook*.

Several factors have contributed to the recent high crude oil prices and are likely to keep prices at or near present highs. First, [worldwide petroleum demand growth](#) is projected to remain robust, despite high oil prices, but is likely to moderate in response to slower Chinese growth, which exceeded 1 million barrels per day in 2004. Projections for 2005 and 2006 call for worldwide growth averaging 2.2 million barrels per day, or 2.6 percent, per year, down from the 3.4-percent growth in 2004. Chinese demand growth is projected to moderate to an average of 650 thousand barrels per day annually in 2005 and 2006. Second, expected growth in non-Organization of Petroleum Exporting Countries (OPEC) supplies is not expected to accommodate worldwide demand growth. Third, worldwide spare crude oil production capacity has recently diminished and is projected to remain low. Fourth, freight rates, although down from those in 2004, are projected to remain high in historical terms. Finally, geo-political risks, such as the continued insurgency in Iraq and political unrest in Nigeria and Venezuela, are expected to keep the uncertainty premium high.

High levels of production from members of the OPEC contributed to inventory builds in the Organization for Economic Cooperation and Development (OECD) countries from February through November 2004. Since then, [OECD oil stocks](#) have moved more toward the middle of the 5-year historical range. However, OECD stocks have not grown in terms of days-of-supply (the number of days that inventories would satisfy demand) because demand has grown rapidly as well. EIA's outlook includes little growth in OECD commercial oil inventories over the next 2 years. [U.S. crude oil inventories](#), now near the middle of the historical range, are much improved compared to this time last year. Some of this improvement is expected to dissipate over the forecast period.

On March 16, OPEC announced it would increase its production quota by 500,000 barrels per day and was prepared to approve an additional 500,000-barrel-per-day quota increase should oil prices remain at current levels. This quota increase was applied pro-rata to the quotas of each OPEC member. (In practice, only Saudi Arabia has any meaningful available [spare production capacity](#).) EIA's projections had already assumed prior to the announcement that OPEC production would increase to meet growing world oil demand. The current *Outlook* forecasts increases in OPEC production to meet increased world demand but our estimates for non-OPEC supply overall have not changed significantly since March. The forecast for U.S. petroleum supply has been adjusted downward slightly by about 0.1 million barrels per day each for the 2005 and 2006 yearly averages.

[U.S. petroleum demand](#) is projected to average 20.9 million barrels per day in 2005, up 1.7 percent from 2004. Jet fuel demand is up by 4.5 percent from 2004; motor gasoline use, accounting for almost half of total petroleum demand, is expected to increase by 1.6 percent this year. In 2006, U.S. petroleum demand is projected to increase by an additional 1.5 percent, as use of motor gasoline and other transportation fuels continues to increase.

On April 4, 2005, the U.S. average pump price for regular gasoline was \$2.22 per gallon, up 6 cents from the previous week. Recently, both gasoline prices and diesel prices have been rising in response to high late winter crude oil prices and high rates of refinery utilization. Diesel prices have also responded to the relatively low level of distillate inventories. With the heating season over, however, there will be less distillate demand pressure on diesel prices. Despite relatively high absolute levels for [gasoline inventories](#), days' supply (beginning inventories divided by demand per day) has generally not risen significantly since 2003 and is projected to stay below historical averages through 2006. In 2005, the pump price for regular unleaded motor gasoline is expected to average \$2.17 per gallon and diesel fuel is expected to average \$2.21 per gallon, both up considerably from 2004. Similarly high motor gasoline and diesel prices are expected through 2006. Sustained domestic growth in gasoline demand, both seasonal and year-over-year, is expected to increase average monthly gasoline prices to about \$2.35 per gallon in May.

Natural Gas (Figures 9 to 10)

The [Henry Hub natural gas spot price](#) averaged over \$7.00 per thousand cubic feet (mcf) in March, compared to \$5.55 per mcf in March 2004. High crude oil prices, combined with the unusually cold March weather for much of the Nation, increased heating demand and boosted spot prices for natural gas to levels above \$7.00. Although spot prices for natural gas may dip during the spring and summer, natural gas supply conditions are expected to remain tight over the same period. Although natural gas storage remains adequate, high world oil prices,

a continued strong economy, and the expectation that below-normal Pacific Northwest hydroelectric resources will be well below normal through mid-summer are the principal reasons for the upward revision of the natural gas price projections from last month's *Outlook*. Thus, Henry Hub prices are expected to remain relatively high, averaging about \$6.95 per mcf this year and \$6.90 in 2006.

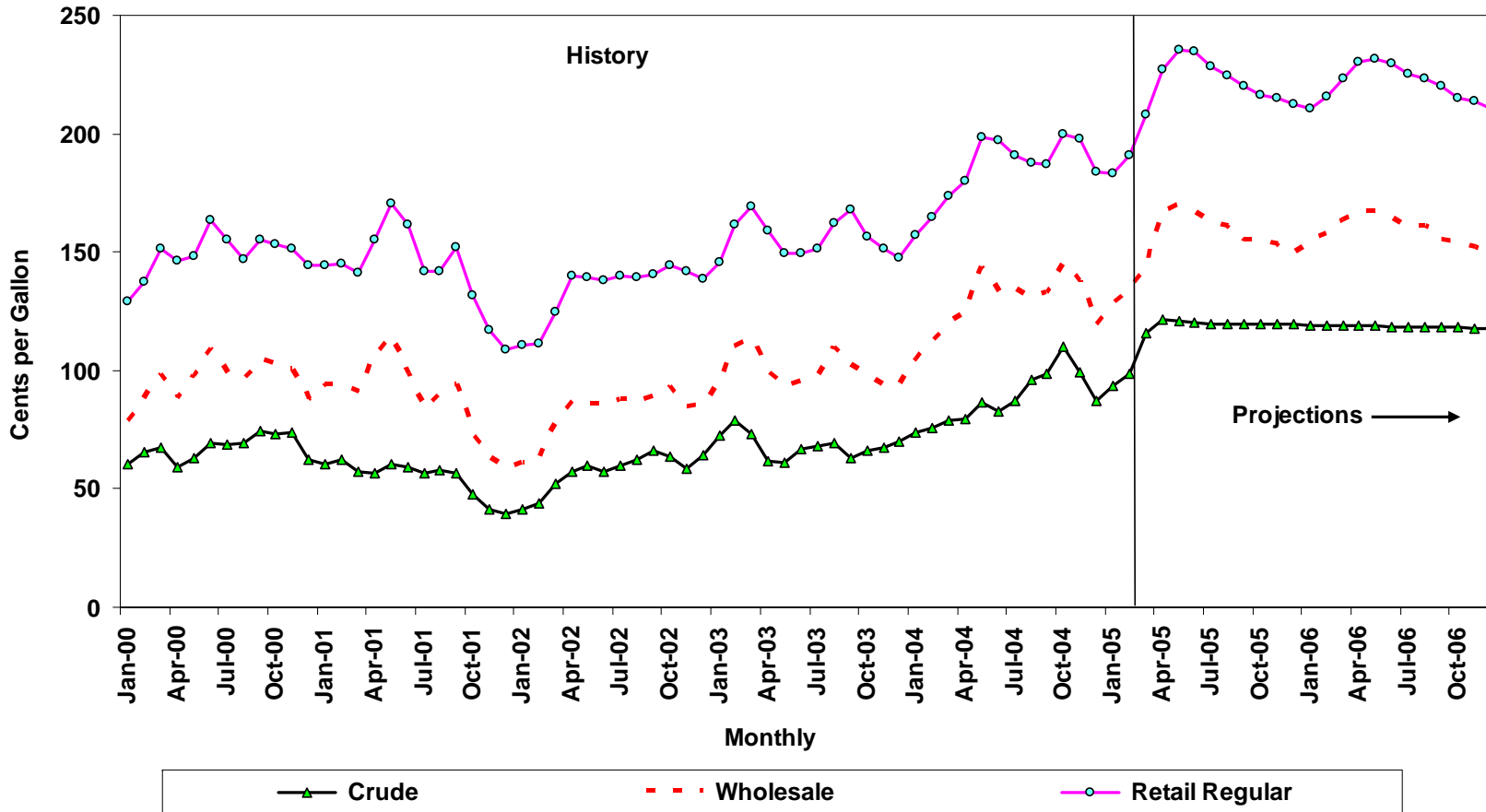
[Working gas in storage](#) is estimated at 1,187 billion cubic feet at the end of March, a level 12 percent higher than one year ago and 14 percent higher than the 5-year average.

Natural gas demand is projected to increase by 1.7 percent in 2005. Domestic natural gas production in 2005 is expected to increase by only 0.7 percent from the 2004 level, despite an expected 8-percent increase in gas-directed drilling. In 2006, natural gas demand is projected to rise by 3.2 percent due largely to weather-related factors and continued strength in gas-intensive industrial production.

Electricity and Coal Outlook (Figures 11 to 13)

[Electricity demand](#) is expected to increase by 2.9 percent in 2005 and by an additional 2.2 percent in 2006 due to continuing economic growth, following estimated growth of 1.6 percent in 2004. Third quarter demand growth (year-over-year) is expected to be particularly strong, as cooling demand is likely to be higher than in the mild third quarter of 2004. Hydroelectric power availability, which fell somewhat in 2004, is expected to rebound in 2005 by 11 percent nationally, down from the 13-percent forecast in the last *Outlook*, provided normal precipitation patterns prevail. This overall improvement is concentrated in regions other than the West Coast, with Pacific Northwest hydroelectric resources expected to be well below normal through mid-summer. [Coal demand](#) in the electric power sector is expected to increase 2.3 percent in 2005 and another 3.2 percent in 2006. Power sector demand for coal continues to increase as oil and gas prices remain high. [U.S. coal production](#) is expected to grow by 1.3 percent in 2005 and by an additional 3.9 percent in 2006.

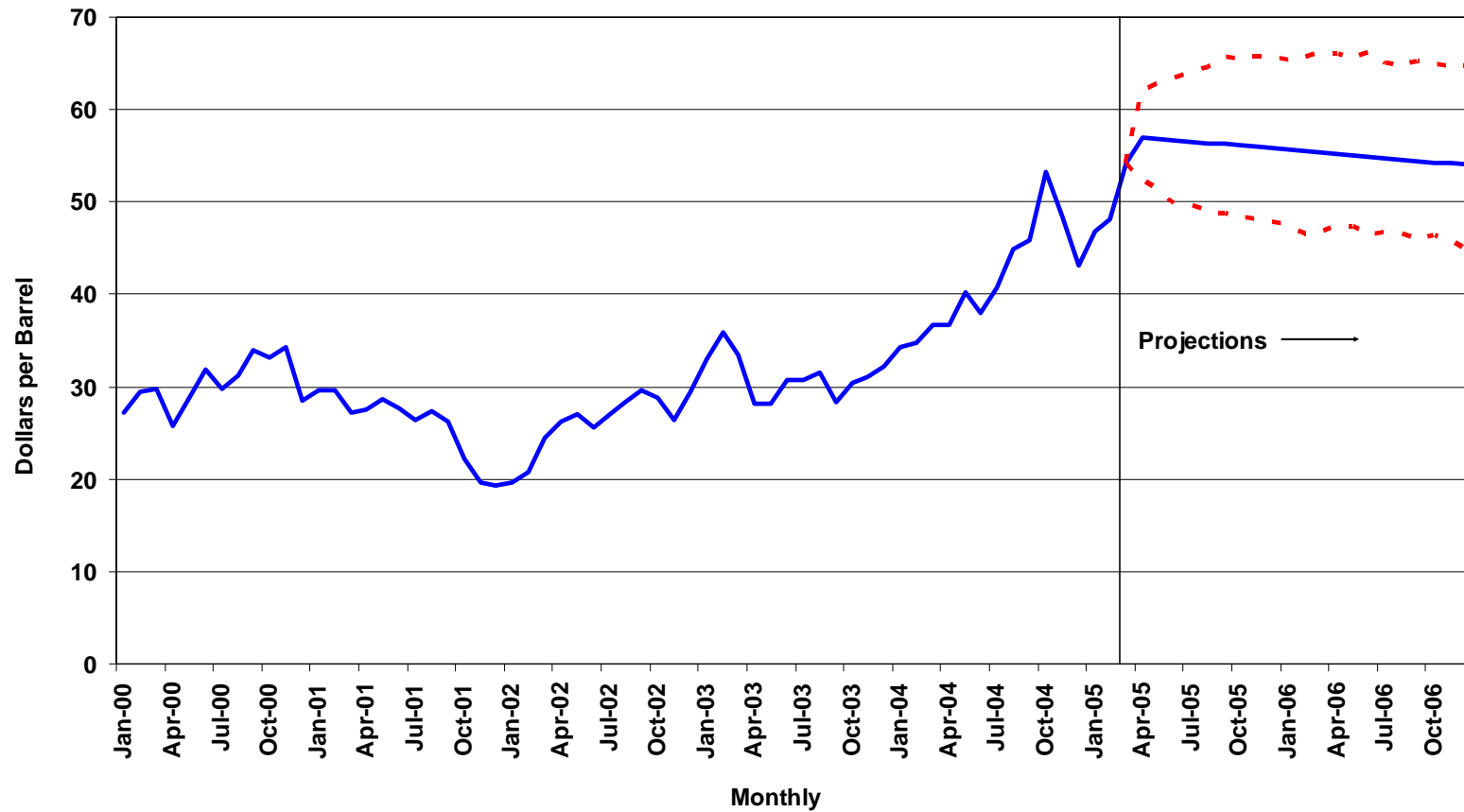
Figure 1. Gasoline Prices and Crude Oil Costs



Short-Term Energy Outlook, April 2005

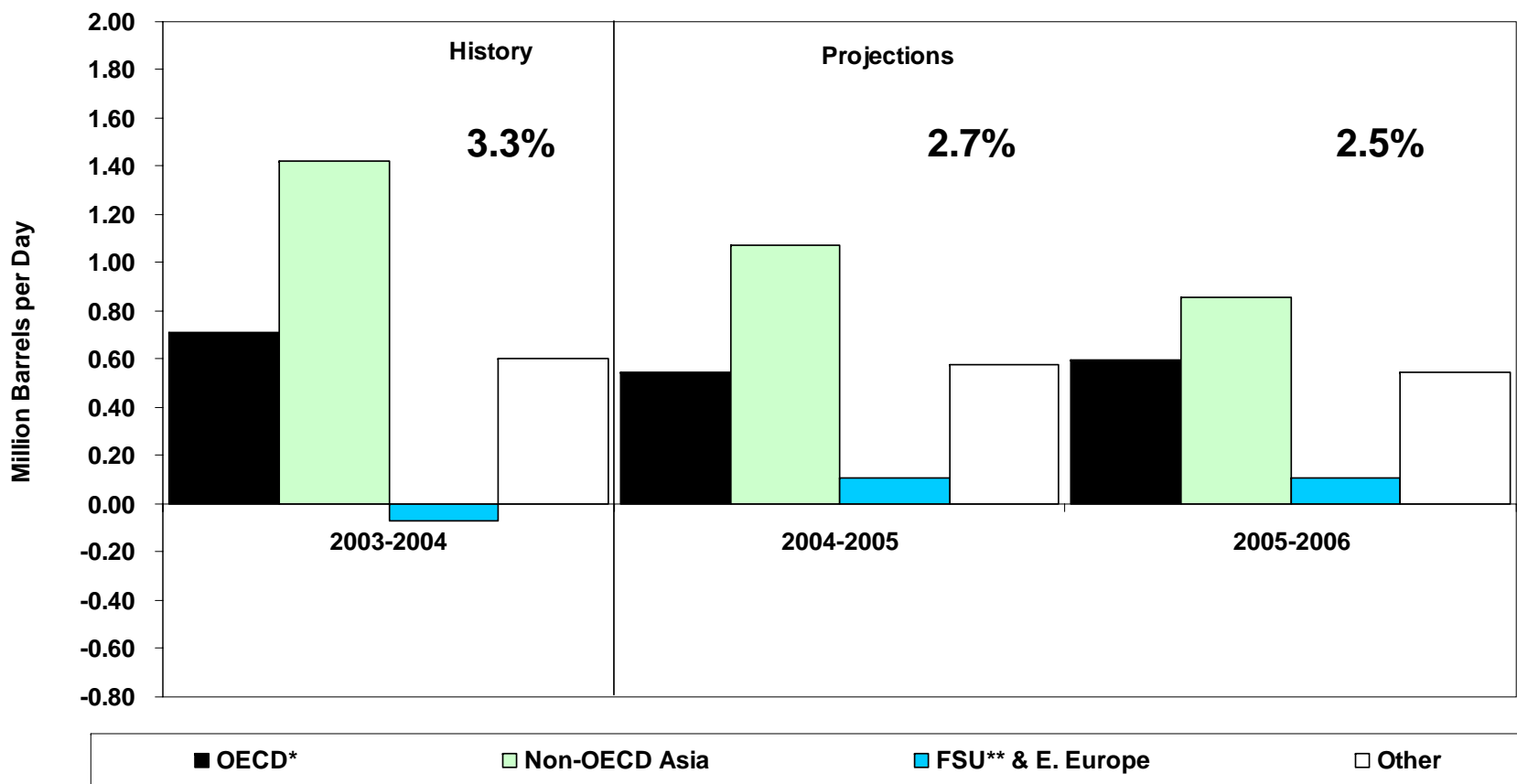


Figure 2. West Texas Intermediate Crude Oil Price (Base Case and 95% Confidence Interval*)



**The confidence intervals show +/- 2 standard errors based on the properties of the model. The ranges do not include the effects of major supply disruptions.*

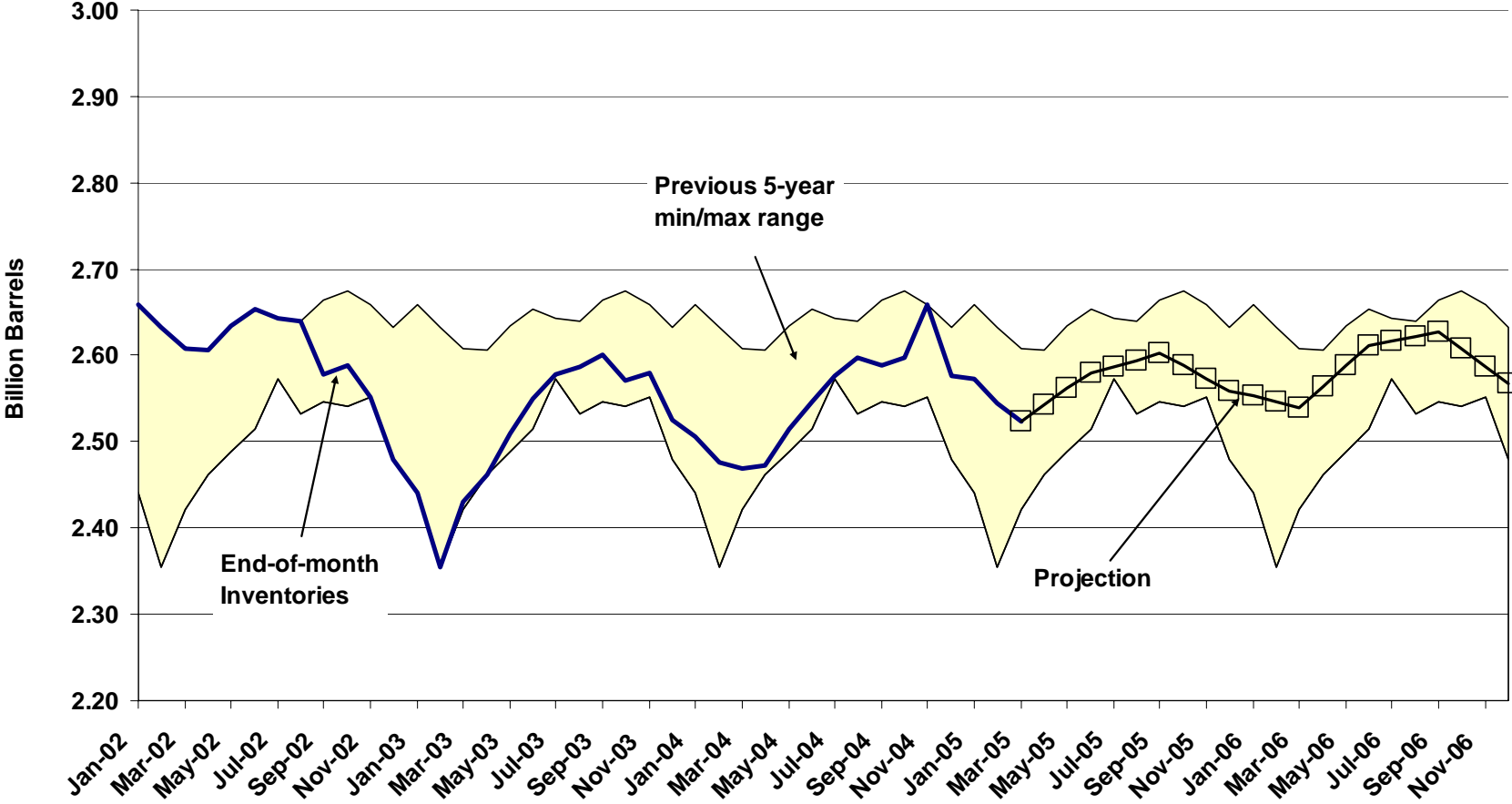
Figure 3. World Oil Demand Growth (Change from Year Ago)



* Note: OECD now defined to include the Czech Republic, Hungary, Mexico, Poland, Slovakia and South Korea in EIA's statistics.

** FSU = Former Soviet Union

Figure 4. OECD* Commercial Oil Stocks



*Organization for Economic Cooperation and Development



Figure 5. U.S. Crude Oil Stocks

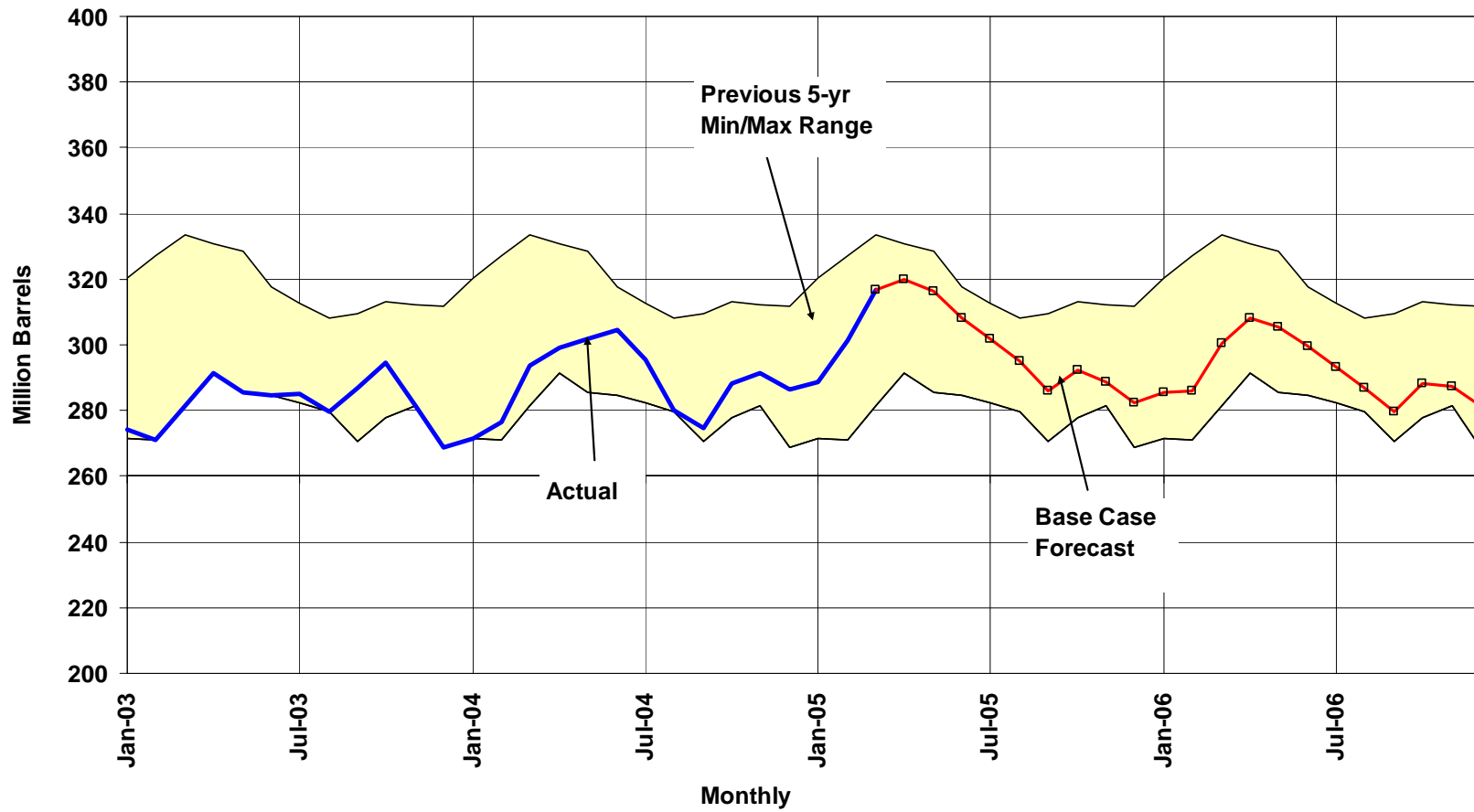
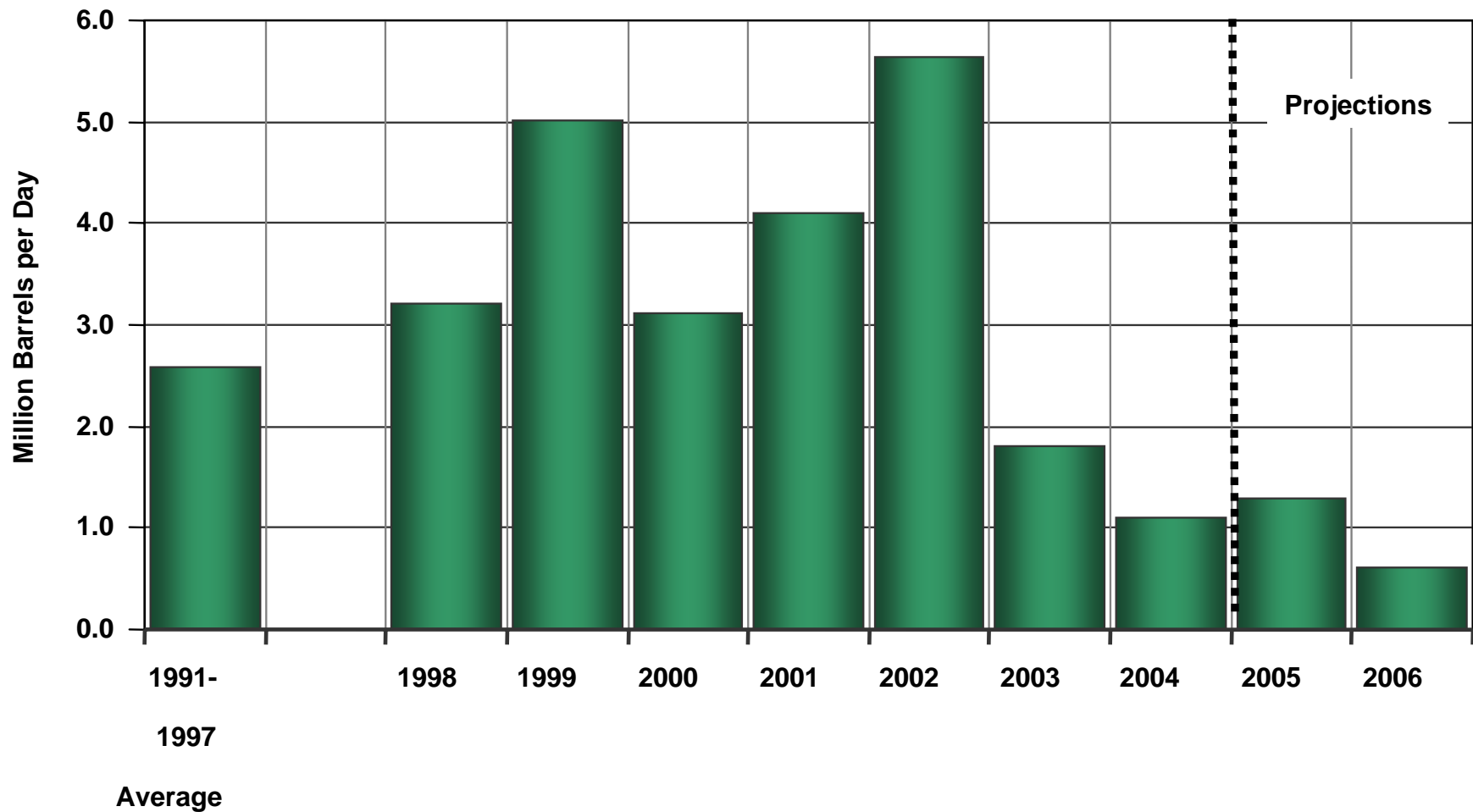
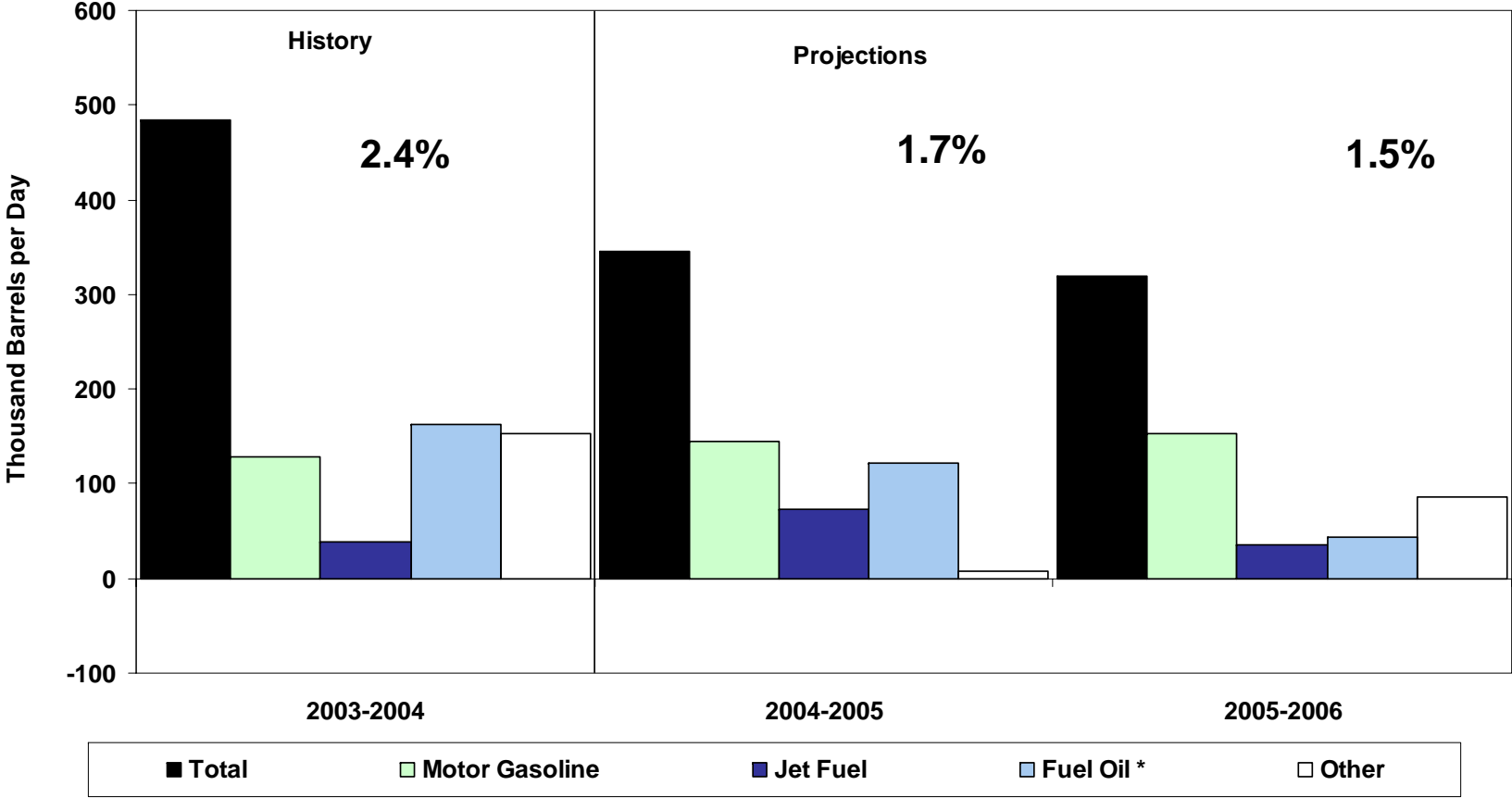


Figure 6. World Oil Spare Production Capacity



Sources: History: EIA; Projections: Short-Term Energy Outlook, April 2005

Figure 7. U.S. Petroleum Products Demand Growth (Change from Year Ago)



* Sum of distillate and residual fuel.



Figure 8. U.S. Gasoline Inventories

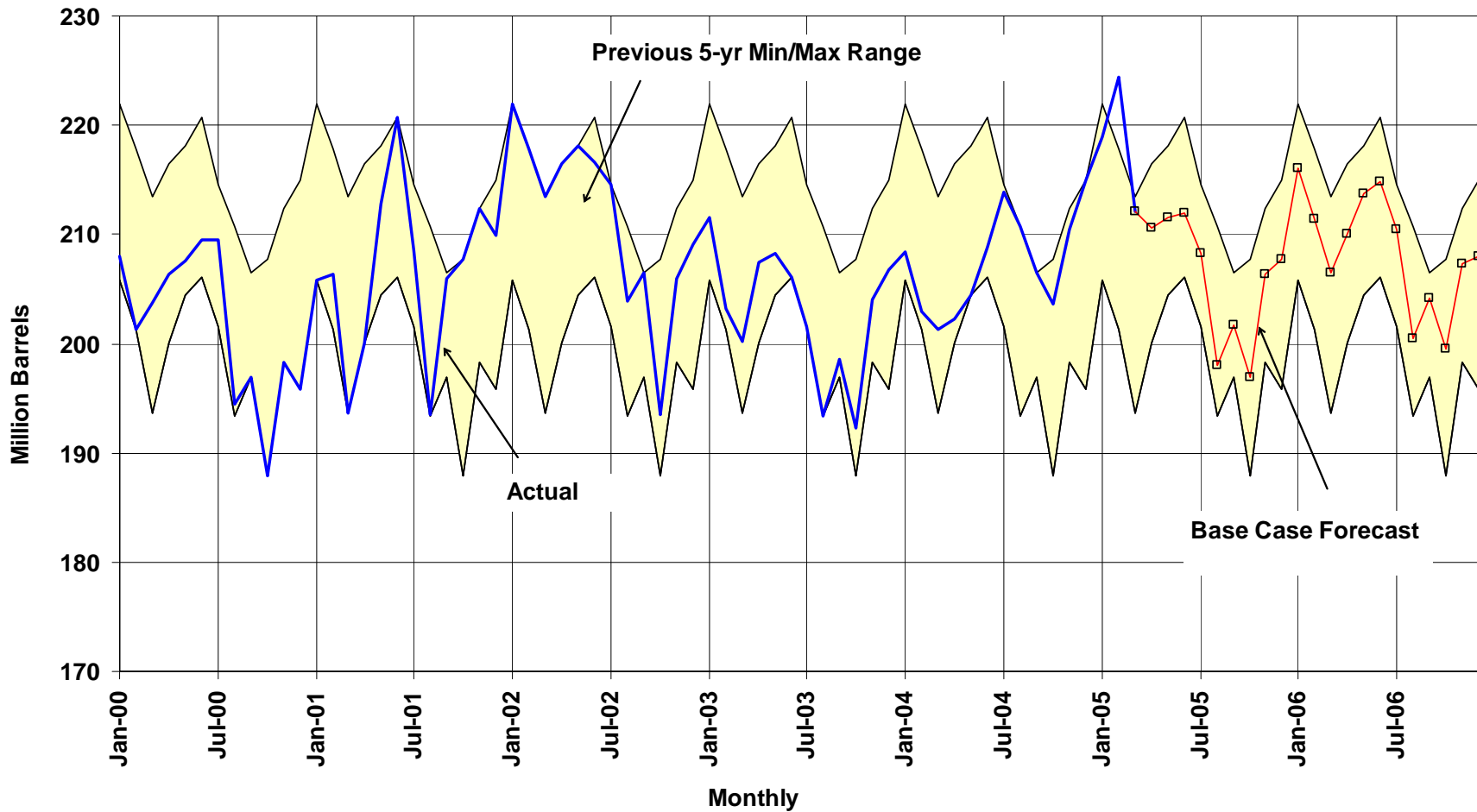
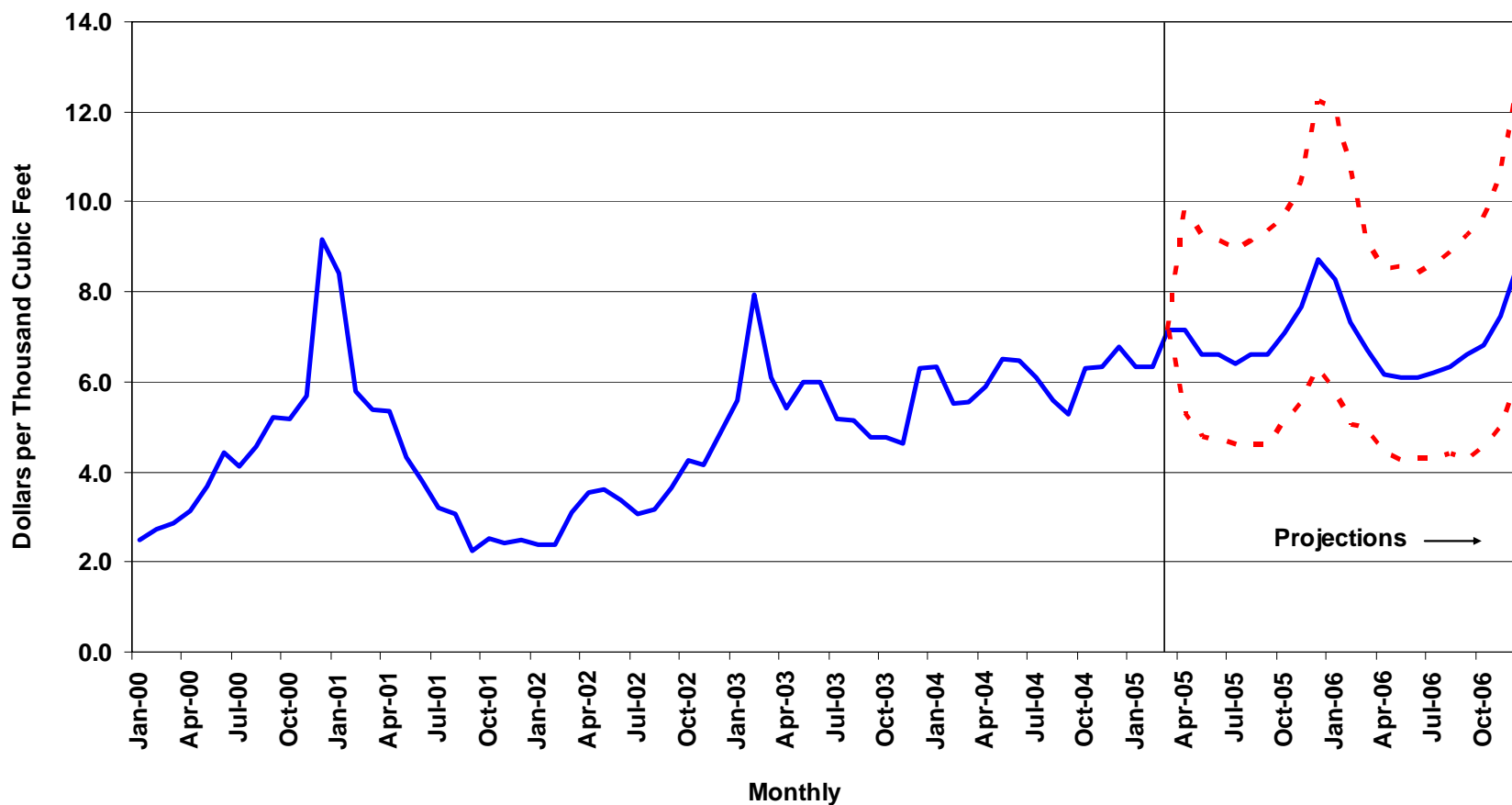


Figure 9. U.S. Natural Gas Spot Prices (Base Case and 95% Confidence Interval*)



*The confidence intervals show ± 2 standard errors based on the properties of the model. The ranges do not include the effects of major supply disruptions.

Sources: History: Natural Gas Week; Projections: Short-Term Energy Outlook, April 2005



**Figure 10. U.S. Working Gas in Storage
(Percent Difference from Previous 5-Year Average)**

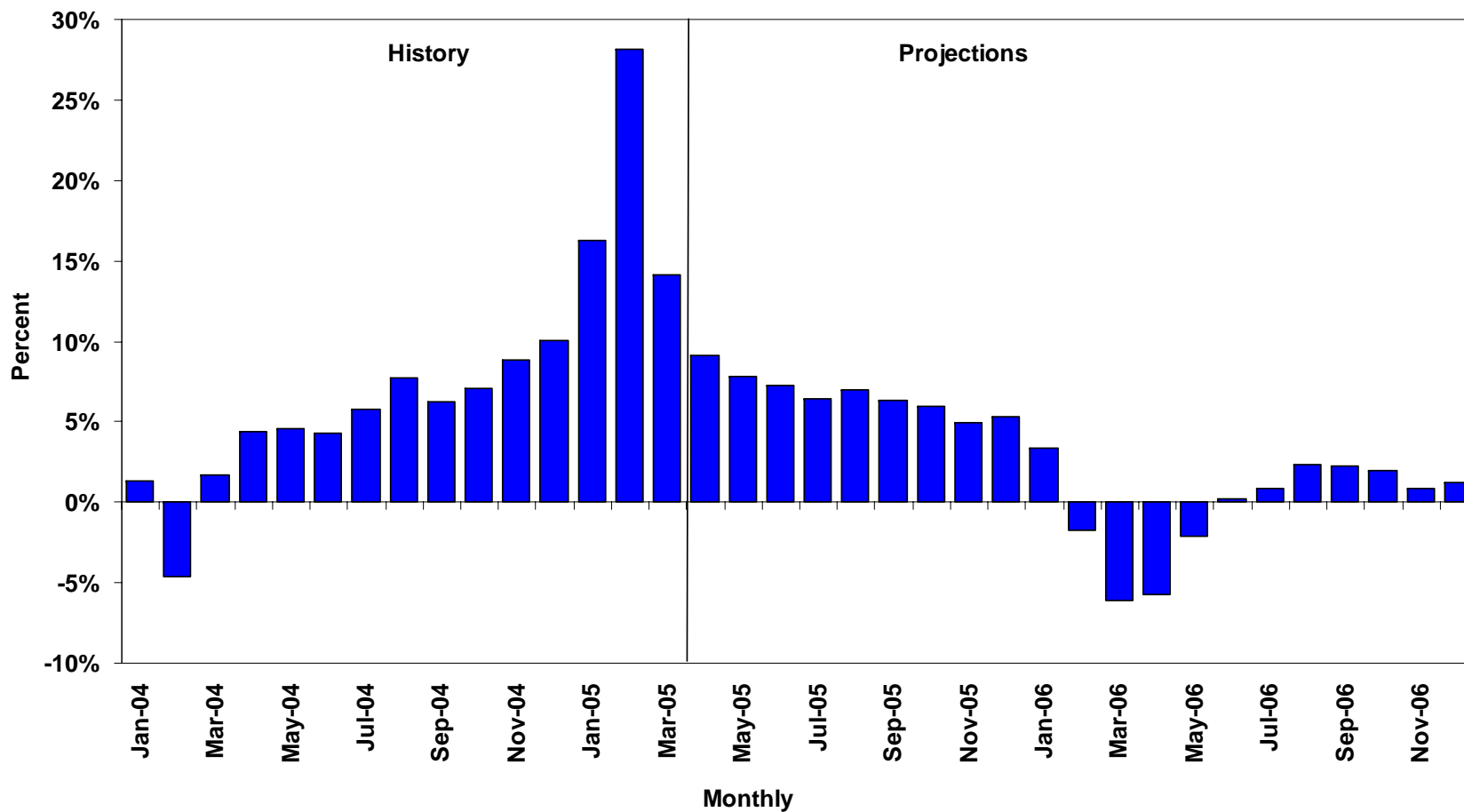


Figure 11. Total U.S. Electricity Demand Growth Patterns

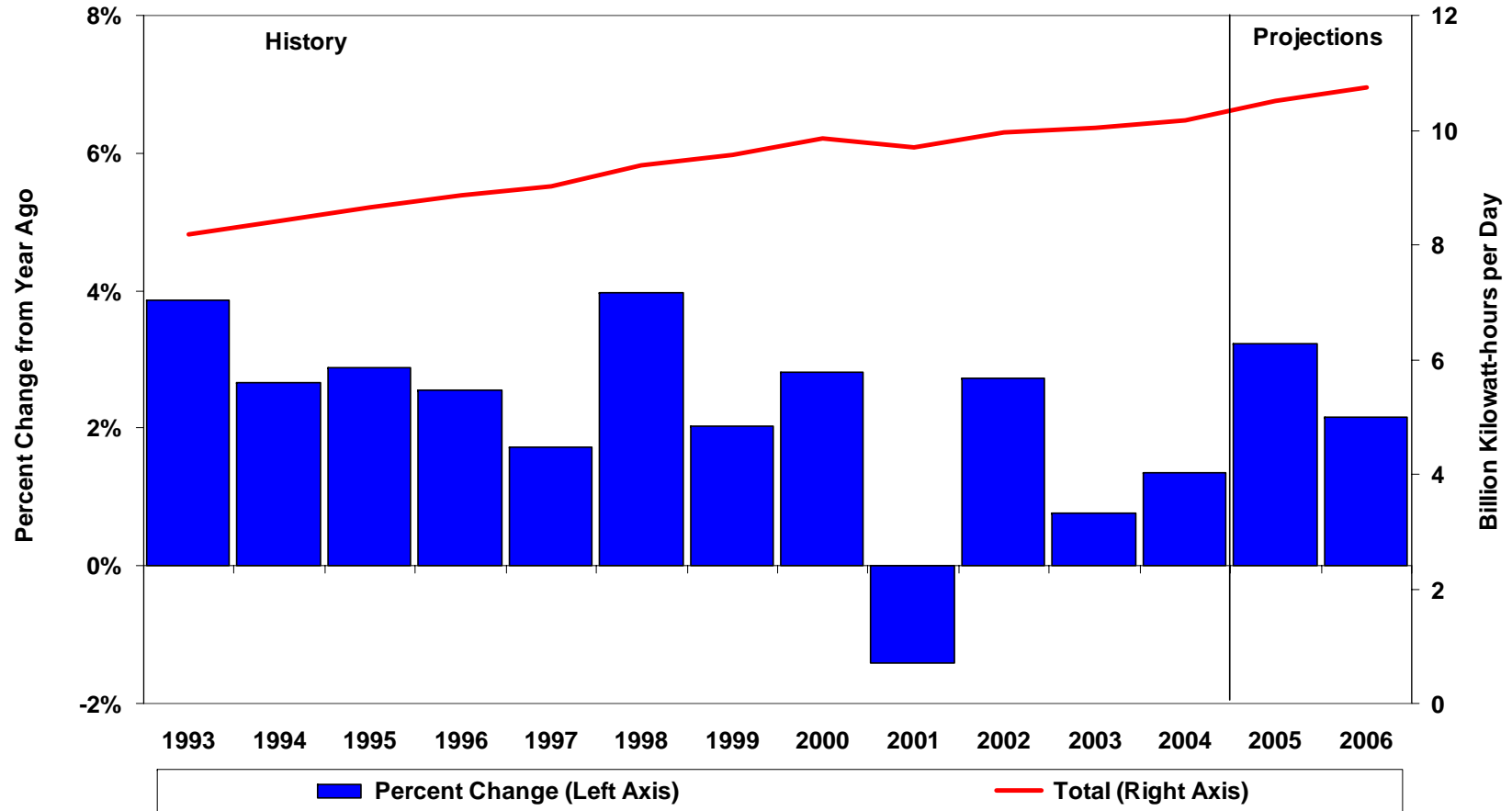


Figure 12. U.S. Coal Demand (Percent Change from Year Ago)

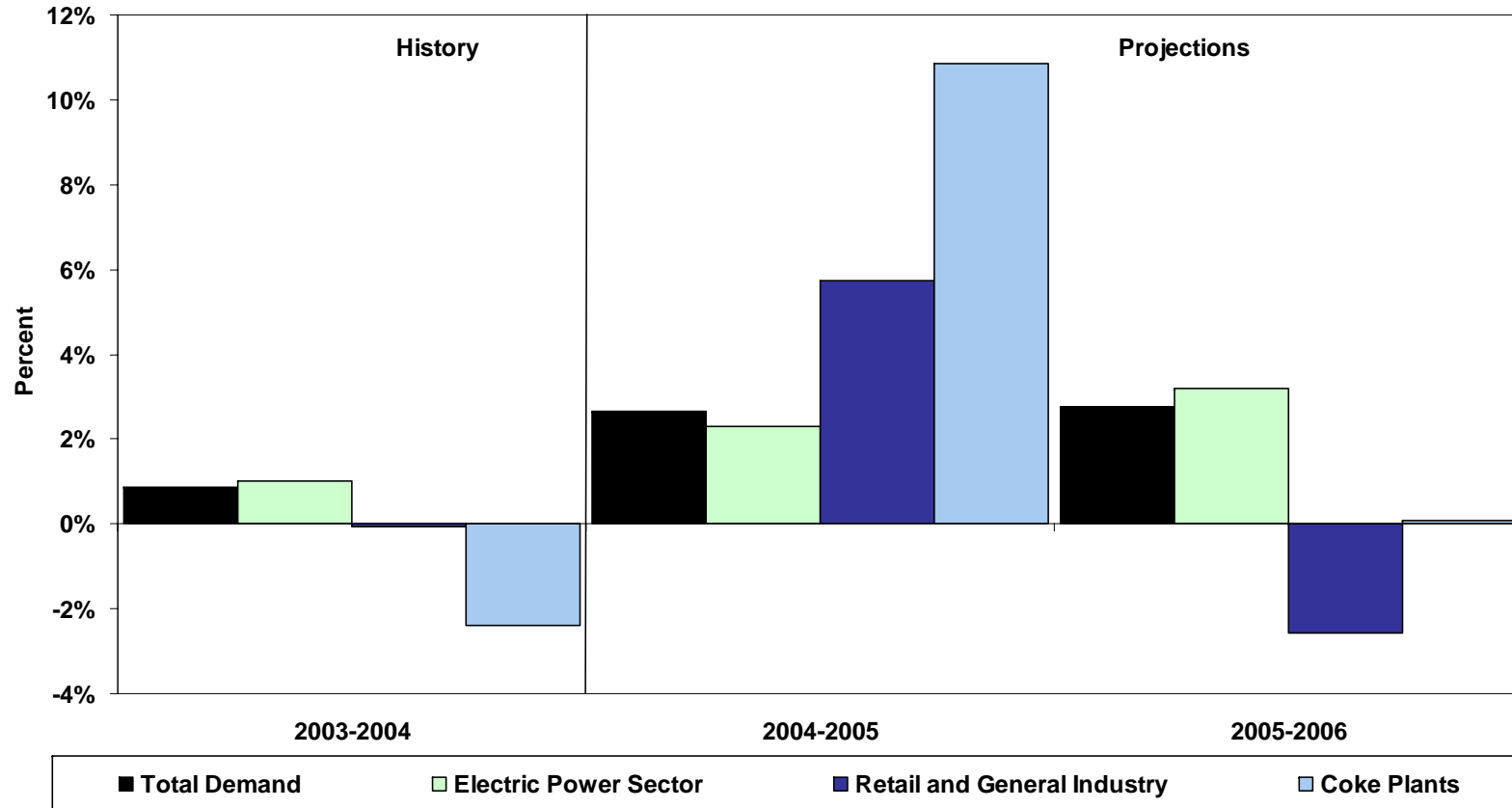
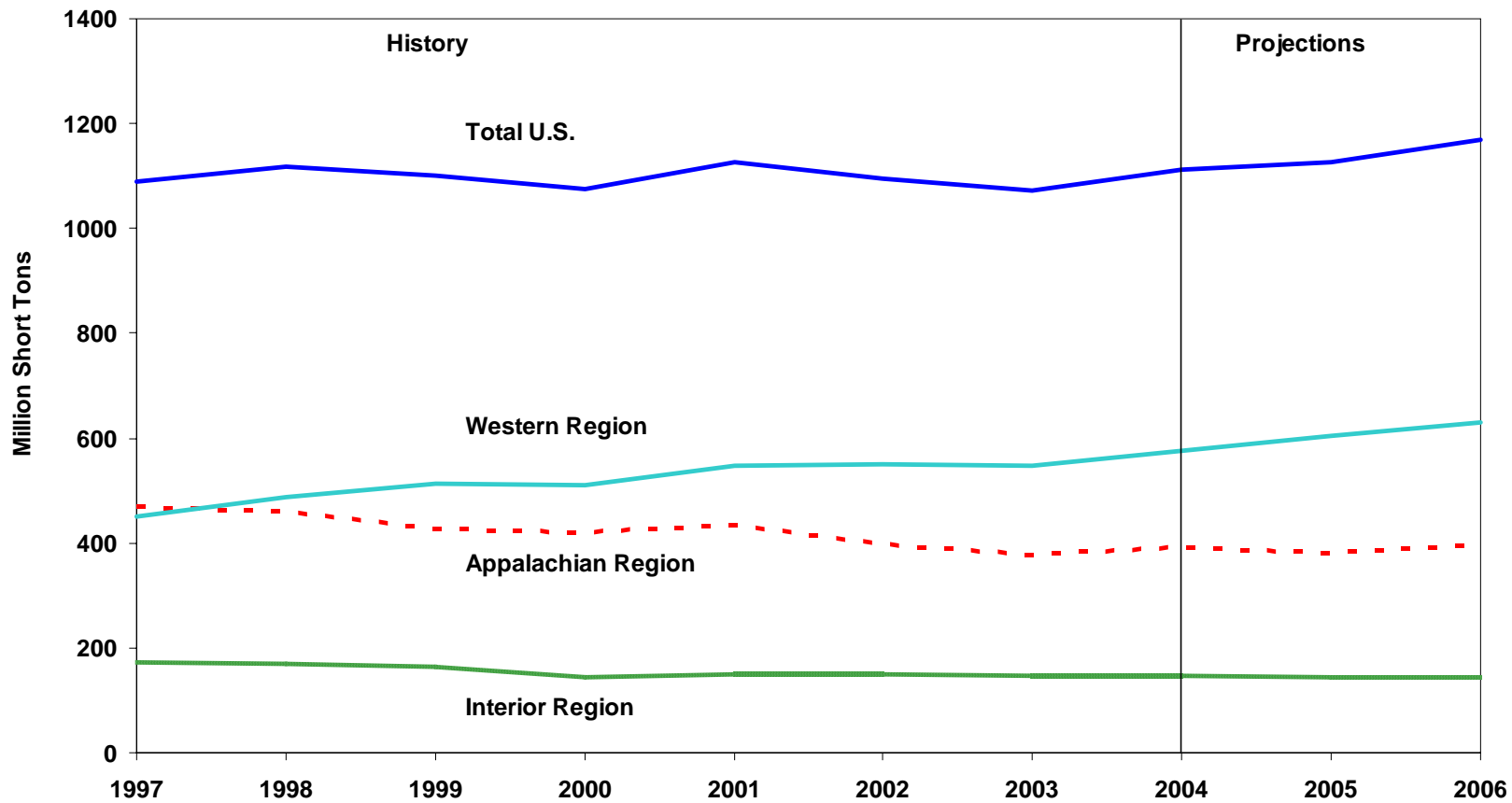


Figure 13. U.S. Coal Production



Additional Charts

Figure 14. U.S. Distillate Stocks

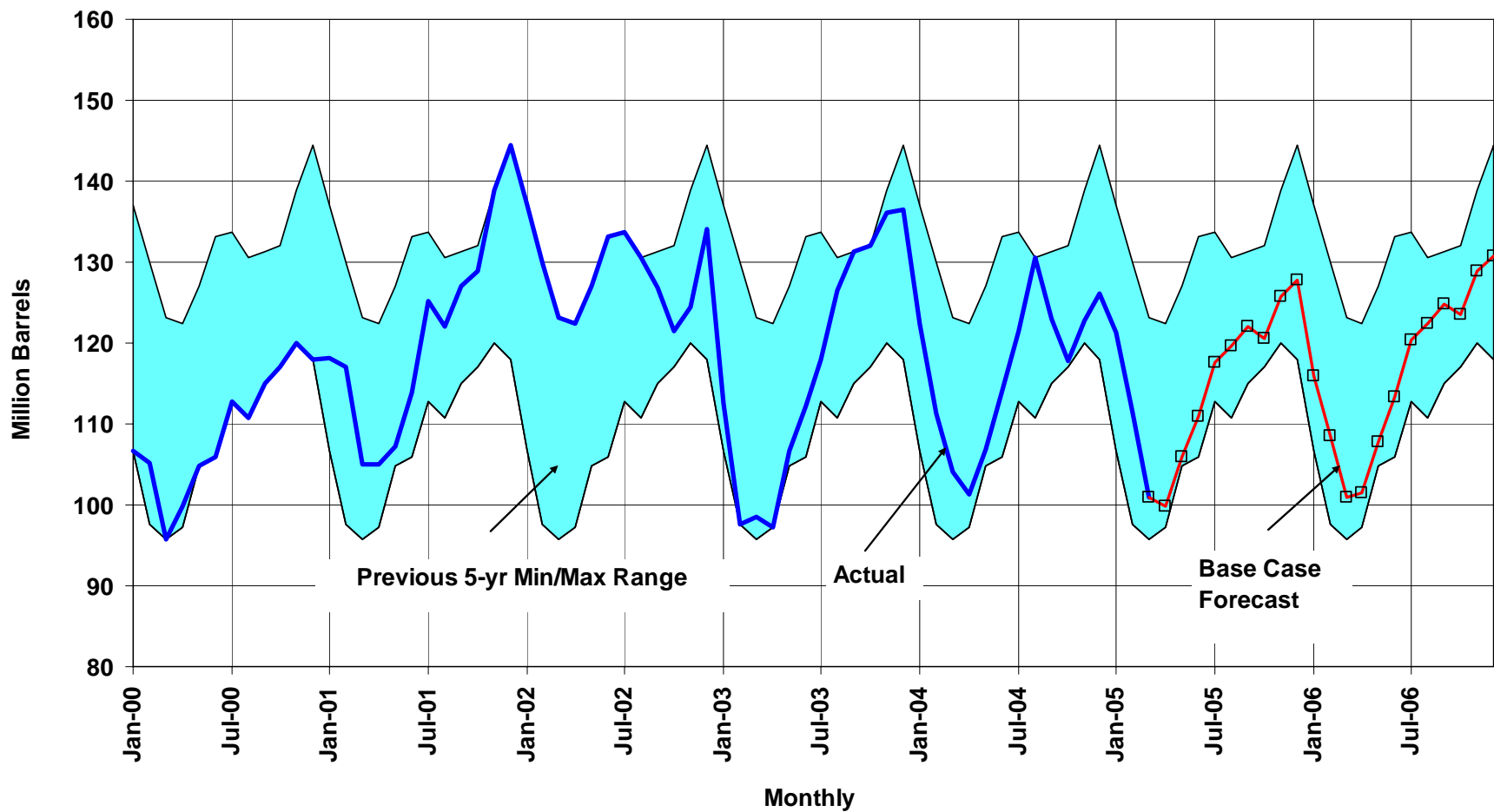


Figure 15. U.S. Distillate Fuel Prices

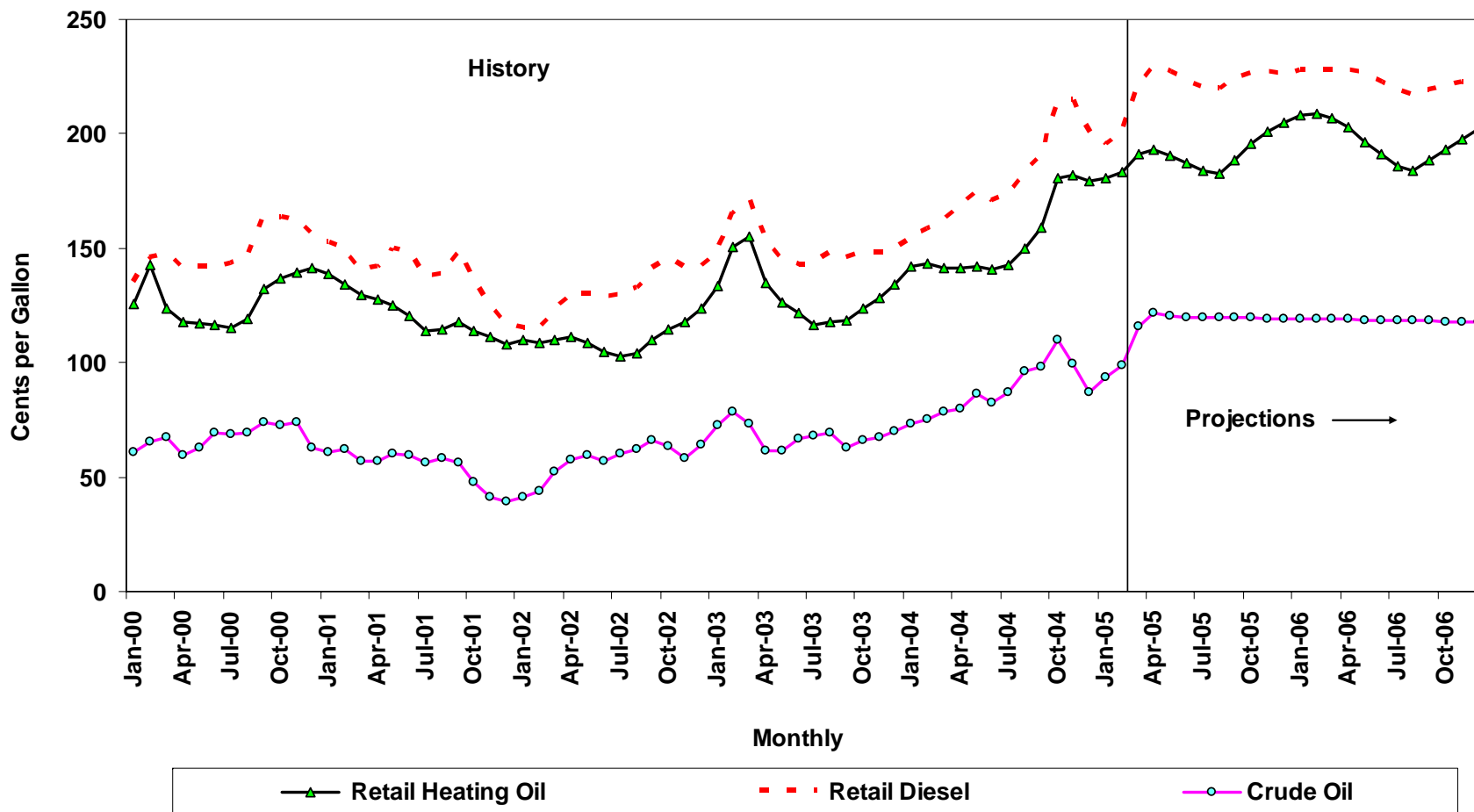


Figure 16. U.S. Crude Oil Production Trends

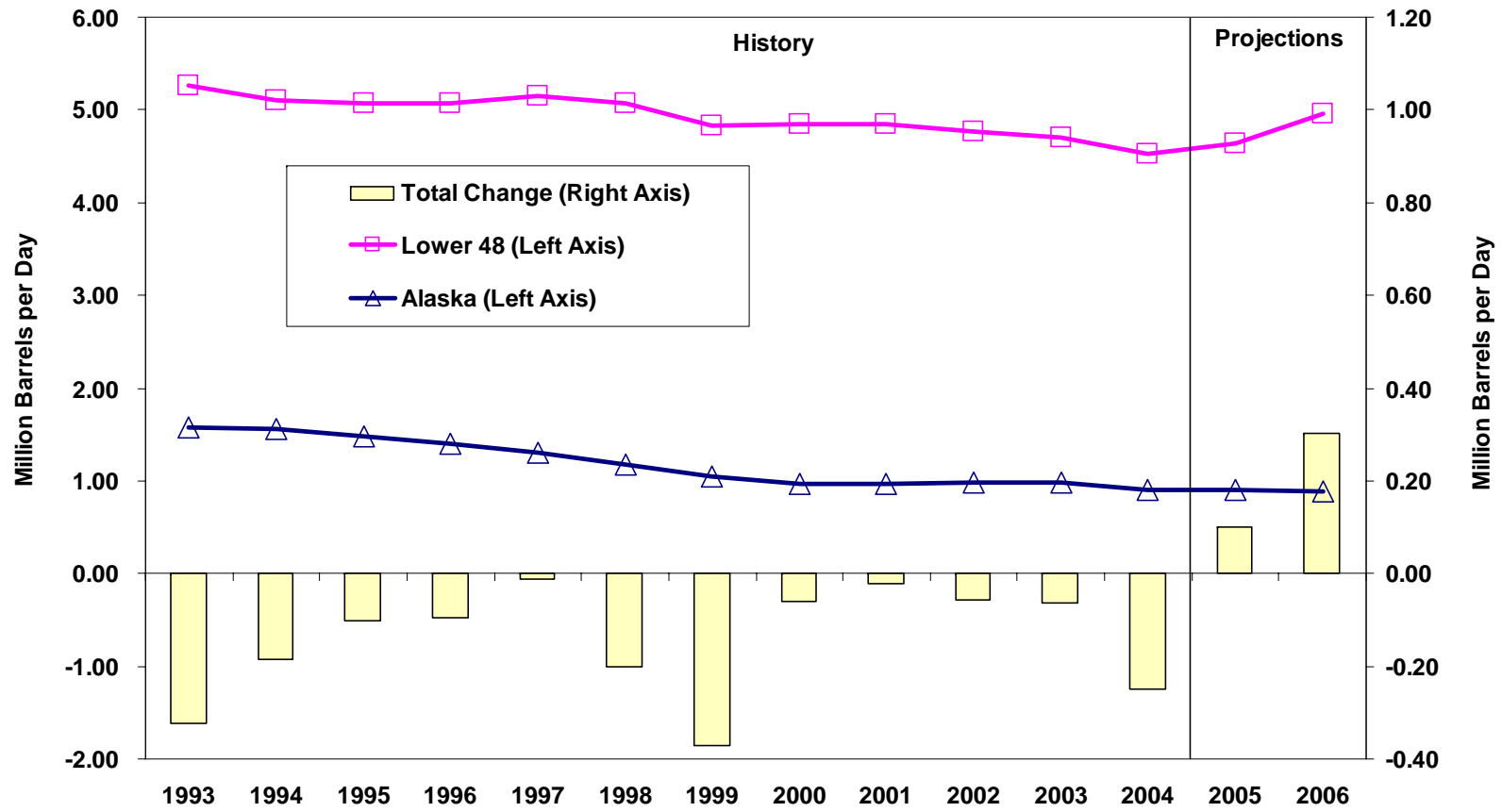


Figure 17. U.S. Natural Gas-Directed Drilling Activity

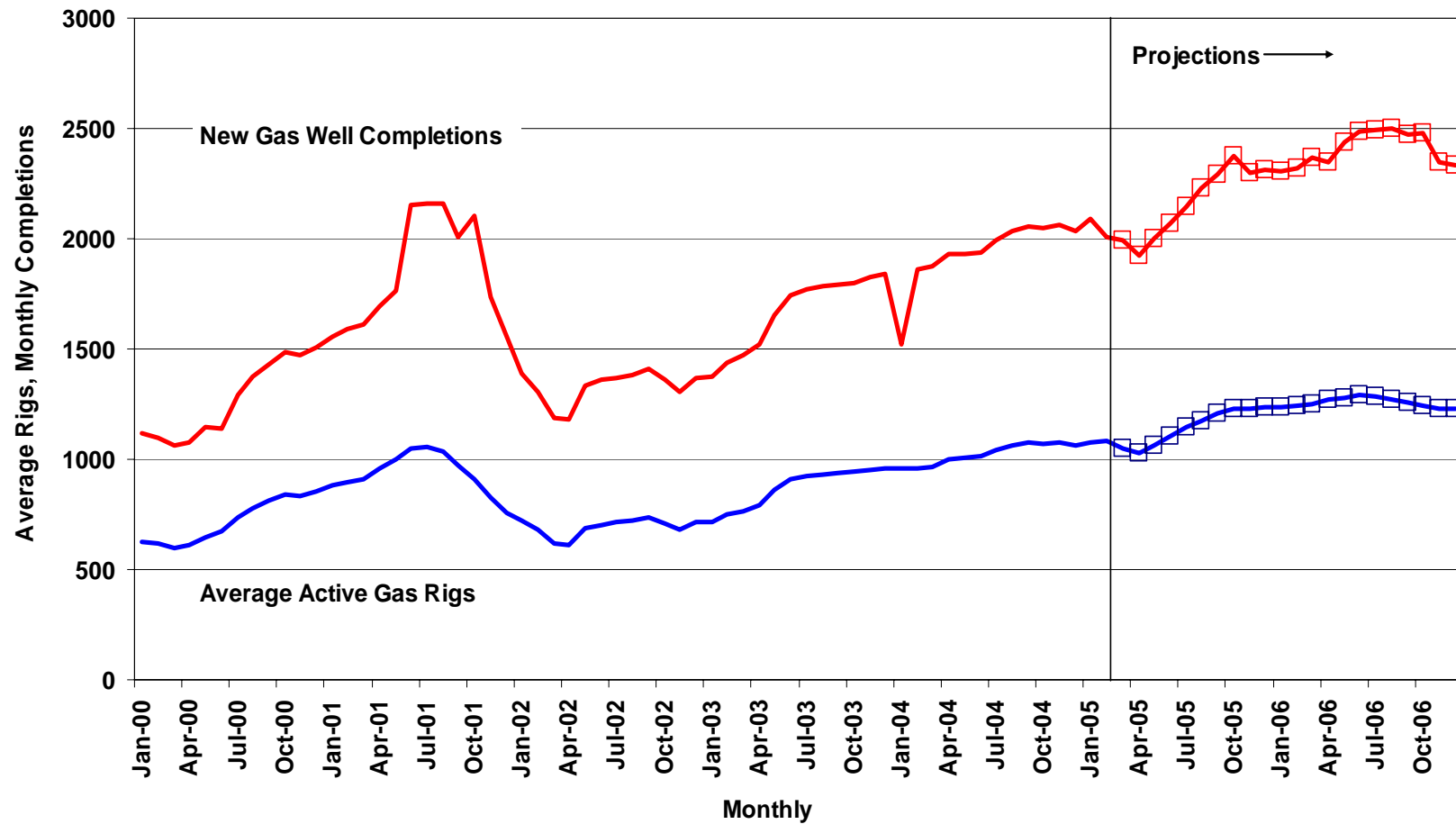


Figure 18. Total U.S. Natural Gas Demand Growth Patterns

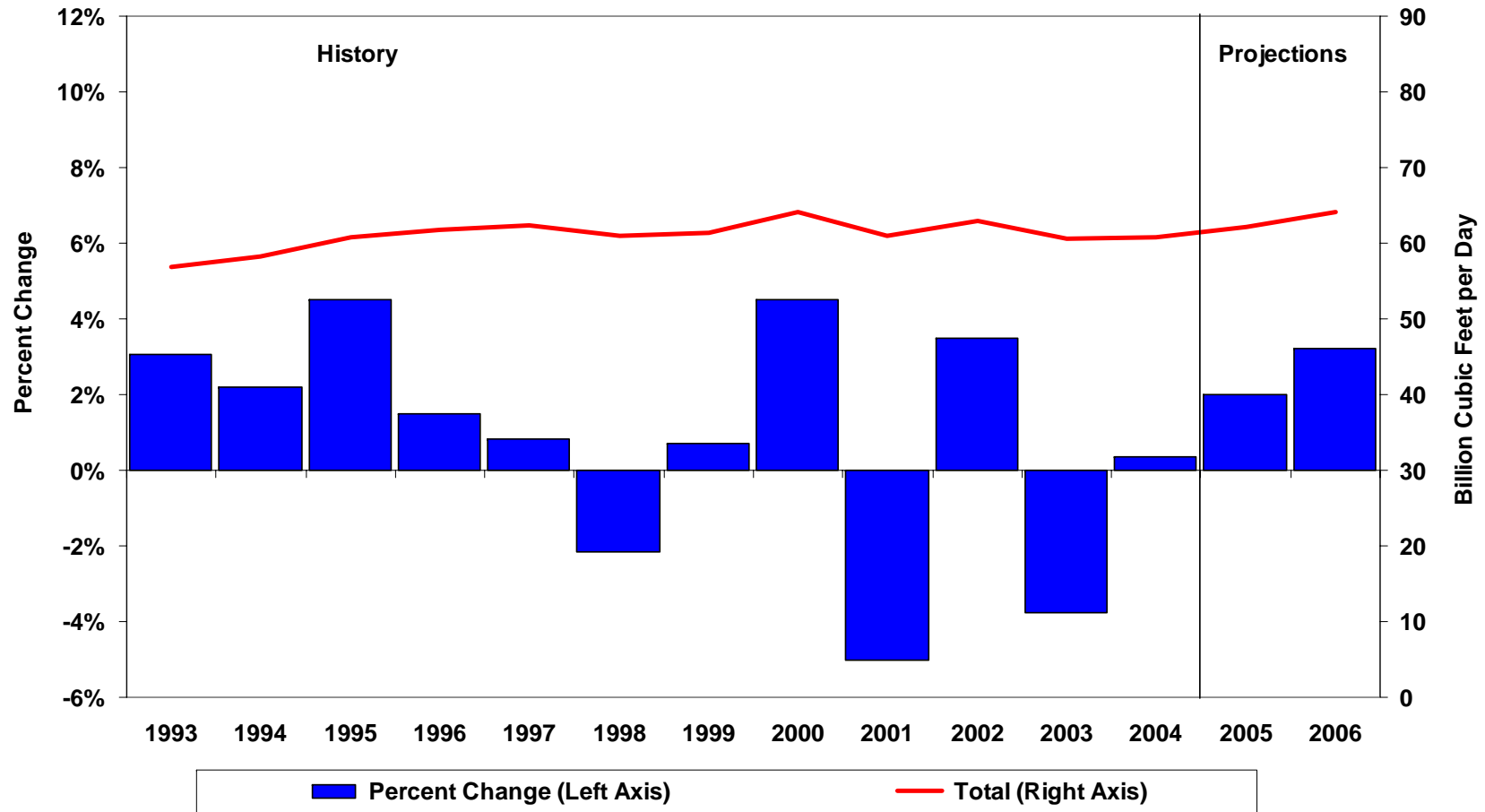


Table HL1. U.S. Energy Supply and Demand: Base Case

| | Year | | | | Annual Percentage Change | | |
|---|--------------|-------|-------|-------|--------------------------|-----------|-----------|
| | 2003 | 2004 | 2005 | 2006 | 2003-2004 | 2004-2005 | 2005-2006 |
| Real Gross Domestic Product (GDP) (billion chained 2000 dollars) | 10381 | 10842 | 11239 | 11574 | 4.4 | 3.7 | 3.0 |
| Imported Crude Oil Price ^a (nominal dollars per barrel)..... | 27.74 | 36.00 | 47.06 | 48.27 | 29.7 | 30.7 | 2.6 |
| Petroleum Supply (million barrels per day) Crude Oil Production ^b | 5.68 | 5.43 | 5.53 | 5.83 | -4.4 | 1.9 | 5.5 |
| Total Petroleum Net Imports(million barrels per day) (including SPR)..... | 11.24 | 11.85 | 12.03 | 11.99 | 5.5 | 1.5 | -0.3 |
| Energy Demand | | | | | | | |
| World Petroleum (million barrels per day) | 79.9 | 82.6 | 84.8 | 86.9 | 3.3 | 2.7 | 2.4 |
| Petroleum (million barrels per day) | 20.03 | 20.52 | 20.86 | 21.18 | 2.4 | 1.7 | 1.5 |
| Natural Gas (trillion cubic feet) | 22.14 | 22.28 | 22.66 | 23.39 | 0.6 | 1.7 | 3.2 |
| Coal ^c (million short tons) | 1095 | 1104 | 1134 | 1165 | 0.9 | 2.7 | 2.8 |
| Electricity (billion kilowatthours) | | | | | | | |
| Retail Sales ^d | 3488 | 3551 | 3651 | 3737 | 1.8 | 2.8 | 2.4 |
| Other Use/Sales ^e | 179 | 176 | 185 | 182 | -1.4 | 5.1 | -1.8 |
| Total | 3667 | 3727 | 3837 | 3919 | 1.6 | 2.9 | 2.2 |
| Total Energy Demand ^f (quadrillion Btu)..... | 98.2 | 99.8 | 101.7 | 103.9 | 1.6 | 2.0 | 2.1 |
| Total Energy Demand per Dollar of GDP (thousand Btu per 2000 Dollar)..... | 9.46 | 9.20 | 9.05 | 8.98 | -2.7 | -1.6 | -0.8 |
| Renewable Energy as Percent of Total ^g | 6.4% | 6.5% | 6.7% | 6.7% | | | |

^aRefers to the refiner acquisition cost (RAC) of imported crude oil.

^bIncludes lease condensate.

^cTotal Demand includes estimated Independent Power Producer (IPP) coal consumption.

^dTotal of retail electricity sales by electric utilities and power marketers. Utility sales for historical periods are reported in Energy Information Administration (EIA) *Electric Power Monthly* and *Electric Power Annual*. Power marketers' sales for historical periods are reported in EIA's *Electric Sales and Revenue*, Appendix C. Data for 2003 are estimates.

^eDefined as the sum of facility use of onsite net electricity generation plus direct sales of power by industrial- or commercial-sector generators to third parties, reported annually in Table 7.5 of the *Monthly Energy Review (MER)*. Data for 2004 are estimates.

^fThe 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 EIA's *MER*. Consequently, the historical data may not precisely match those published in the *MER* or the *Annual Energy Review (AER)*.

^gRenewable energy includes minor components of non-marketed renewable energy, which is renewable energy that is neither bought nor sold, either directly or indirectly, as inputs to marketed energy. EIA does not estimate or project total consumption of non-marketed renewable energy.

SPR: Strategic Petroleum Reserve.

Notes: Minor discrepancies with other published EIA historical data are due to independent rounding. Historical data are printed in bold; estimates and 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 Monthly*, DOE/EIA-0520; *Weekly Petroleum Status Report*, DOE/EIA-0208. Macroeconomic projections are based on Global Insight Model of the US Economy, March 2005.

Table 1. U.S. Macroeconomic and Weather Assumptions: Base Case

| | 2004 | | | | 2005 | | | | 2006 | | | | Year | | |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 2004 | 2005 | 2006 |
| Macroeconomic ^a | | | | | | | | | | | | | | | |
| Real Gross Domestic Product (billion chained 2000 dollars - SAAR) | 10698 | 10785 | 10891 | <i>10993</i> | <i>11102</i> | <i>11206</i> | <i>11288</i> | <i>11360</i> | <i>11437</i> | <i>11530</i> | <i>11621</i> | <i>11710</i> | <i>10842</i> | <i>11239</i> | <i>11574</i> |
| Percentage Change from Prior Year | 5.0 | 4.8 | 4.0 | <i>3.9</i> | <i>3.8</i> | <i>3.9</i> | <i>3.6</i> | <i>3.3</i> | <i>3.0</i> | <i>2.9</i> | <i>2.9</i> | <i>3.1</i> | <i>4.4</i> | <i>3.7</i> | <i>3.0</i> |
| Annualized Percent Change from Prior Quarter..... | 4.5 | 3.3 | 4.0 | <i>3.8</i> | <i>4.0</i> | <i>3.8</i> | <i>3.0</i> | <i>2.6</i> | <i>2.7</i> | <i>3.3</i> | <i>3.2</i> | <i>3.1</i> | | | |
| GDP Implicit Price Deflator (Index, 2000=100) | 107.3 | 108.2 | 108.6 | <i>109.1</i> | <i>109.8</i> | <i>110.2</i> | <i>110.8</i> | <i>111.5</i> | <i>112.2</i> | <i>112.7</i> | <i>113.2</i> | <i>113.9</i> | <i>108.3</i> | <i>110.6</i> | <i>113.0</i> |
| Percentage Change from Prior Year | 1.7 | 2.3 | 2.3 | <i>2.4</i> | <i>2.3</i> | <i>1.9</i> | <i>2.1</i> | <i>2.2</i> | <i>2.2</i> | <i>2.2</i> | <i>2.2</i> | <i>2.2</i> | <i>2.2</i> | <i>2.1</i> | <i>2.2</i> |
| Real Disposable Personal Income (billion chained 2000 Dollars - SAAR) | 7897 | 7952 | 8010 | <i>8167</i> | <i>8175</i> | <i>8219</i> | <i>8264</i> | <i>8311</i> | <i>8408</i> | <i>8483</i> | <i>8560</i> | <i>8614</i> | <i>8006</i> | <i>8242</i> | <i>8516</i> |
| Percentage Change from Prior Year | 4.0 | 3.7 | 2.4 | <i>4.0</i> | <i>3.5</i> | <i>3.4</i> | <i>3.2</i> | <i>1.8</i> | <i>2.9</i> | <i>3.2</i> | <i>3.6</i> | <i>3.6</i> | <i>3.5</i> | <i>2.9</i> | <i>3.3</i> |
| Manufacturing Production (Index, 1997=100.0) | 115.9 | 117.6 | 118.8 | <i>120.1</i> | <i>121.6</i> | <i>122.7</i> | <i>123.5</i> | <i>124.3</i> | <i>125.2</i> | <i>126.0</i> | <i>127.1</i> | <i>128.4</i> | <i>118.1</i> | <i>123.0</i> | <i>126.6</i> |
| Percentage Change from Prior Year | 3.2 | 5.6 | 5.5 | <i>5.0</i> | <i>4.9</i> | <i>4.3</i> | <i>3.9</i> | <i>3.5</i> | <i>3.0</i> | <i>2.7</i> | <i>2.9</i> | <i>3.3</i> | <i>4.8</i> | <i>4.2</i> | <i>3.0</i> |
| OECD Economic Growth (percent) ^b | | | | | | | | | | | | | <i>1.7</i> | <i>2.9</i> | <i>2.6</i> |
| Weather ^c | | | | | | | | | | | | | | | |
| Heating Degree-Days | | | | | | | | | | | | | | | |
| U.S. | 2229 | 447 | 73 | <i>1523</i> | <i>2134</i> | <i>539</i> | <i>107</i> | <i>1630</i> | <i>2265</i> | <i>537</i> | <i>99</i> | <i>1622</i> | <i>4273</i> | <i>4410</i> | <i>4523</i> |
| New England | 3396 | 840 | 130 | <i>2235</i> | <i>3306</i> | <i>928</i> | <i>195</i> | <i>2276</i> | <i>3261</i> | <i>933</i> | <i>190</i> | <i>2258</i> | <i>6600</i> | <i>6705</i> | <i>6643</i> |
| Middle Atlantic | 3100 | 603 | 70 | <i>1982</i> | <i>3038</i> | <i>738</i> | <i>125</i> | <i>2046</i> | <i>2989</i> | <i>745</i> | <i>126</i> | <i>2050</i> | <i>5755</i> | <i>5947</i> | <i>5909</i> |
| U.S. Gas-Weighted..... | 2397 | 495 | 83 | <i>1655</i> | <i>2319</i> | <i>596</i> | <i>123</i> | <i>1751</i> | <i>2420</i> | <i>592</i> | <i>113</i> | <i>1738</i> | <i>4628</i> | <i>4790</i> | <i>4863</i> |
| Cooling Degree-Days | | | | | | | | | | | | | | | |
| (U.S.)..... | 40 | 373 | 723 | <i>90</i> | <i>29</i> | <i>349</i> | <i>779</i> | <i>77</i> | <i>31</i> | <i>347</i> | <i>786</i> | <i>82</i> | <i>1227</i> | <i>1234</i> | <i>1246</i> |

^aMacroeconomic projections from Global Insight model forecasts are seasonally adjusted at annual rates and modified as appropriate to the base world oil price case.

^bOECD: Organization for Economic Cooperation and Development: Australia, Austria, Belgium, Canada, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, South Korea, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and the United States.

^cPopulation-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 2000 population.

SAAR: Seasonally-adjusted annualized rate.

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

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. Projections of OECD growth are based on Global Insight, "World Economic Outlook," Volume 1. Macroeconomic projections are based on Global Insight Model of US Economy, March 2005.

Table 2. U.S. Energy Indicators: Base Case

| | 2004 | | | | 2005 | | | | 2006 | | | | Year | | |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 2004 | 2005 | 2006 |
| Macroeconomic ^a | | | | | | | | | | | | | | | |
| Real Fixed Investment (billion chained 2000 dollars- SAAR)..... | 1721 | 1778 | 1816 | <i>1859</i> | <i>1899</i> | <i>1924</i> | <i>1938</i> | <i>1950</i> | <i>1957</i> | <i>1969</i> | <i>1981</i> | <i>1994</i> | <i>1794</i> | <i>1928</i> | <i>1975</i> |
| Real Exchange Rate (index)..... | 0.850 | 0.876 | 0.858 | <i>0.809</i> | <i>0.798</i> | <i>0.782</i> | <i>0.773</i> | <i>0.770</i> | <i>0.767</i> | <i>0.764</i> | <i>0.760</i> | <i>0.755</i> | <i>0.848</i> | <i>0.781</i> | <i>0.761</i> |
| Business Inventory Change (billion chained 2000 dollars- SAAR)..... | 3.0 | 9.1 | 7.0 | <i>7.3</i> | <i>9.2</i> | <i>9.9</i> | <i>6.6</i> | <i>5.9</i> | <i>7.1</i> | <i>7.9</i> | <i>9.4</i> | <i>10.5</i> | <i>6.6</i> | <i>7.9</i> | <i>8.7</i> |
| Producer Price Index (index, 1982=1.000)..... | 1.421 | 1.456 | 1.477 | <i>1.513</i> | <i>1.519</i> | <i>1.520</i> | <i>1.526</i> | <i>1.540</i> | <i>1.544</i> | <i>1.541</i> | <i>1.546</i> | <i>1.554</i> | <i>1.467</i> | <i>1.526</i> | <i>1.546</i> |
| Consumer Price Index (index, 1982-1984=1.000)..... | 1.866 | 1.886 | 1.894 | <i>1.910</i> | <i>1.920</i> | <i>1.931</i> | <i>1.942</i> | <i>1.953</i> | <i>1.963</i> | <i>1.972</i> | <i>1.981</i> | <i>1.992</i> | <i>1.889</i> | <i>1.936</i> | <i>1.977</i> |
| Petroleum Product Price Index (index, 1982=1.000)..... | 1.051 | 1.178 | 1.234 | <i>1.314</i> | <i>1.255</i> | <i>1.504</i> | <i>1.457</i> | <i>1.439</i> | <i>1.484</i> | <i>1.506</i> | <i>1.460</i> | <i>1.434</i> | <i>1.194</i> | <i>1.414</i> | <i>1.471</i> |
| Non-Farm Employment (millions)..... | 130.5 | 131.3 | 131.7 | <i>132.3</i> | <i>132.8</i> | <i>133.4</i> | <i>134.0</i> | <i>134.6</i> | <i>135.0</i> | <i>135.4</i> | <i>135.8</i> | <i>136.1</i> | <i>131.5</i> | <i>133.7</i> | <i>135.6</i> |
| Commercial Employment (millions)..... | 92.5 | 93.2 | 93.5 | <i>94.0</i> | <i>94.5</i> | <i>95.0</i> | <i>95.6</i> | <i>96.0</i> | <i>96.4</i> | <i>96.8</i> | <i>97.2</i> | <i>97.5</i> | <i>93.3</i> | <i>95.3</i> | <i>97.0</i> |
| Total Industrial Production (index, 1997=100.0)..... | 113.9 | 115.1 | 115.9 | <i>117.0</i> | <i>118.4</i> | <i>119.5</i> | <i>120.2</i> | <i>120.9</i> | <i>121.6</i> | <i>122.3</i> | <i>123.2</i> | <i>124.3</i> | <i>115.5</i> | <i>119.8</i> | <i>122.9</i> |
| Housing Stock (millions)..... | 117.8 | 118.2 | 118.5 | <i>119.0</i> | <i>119.4</i> | <i>119.8</i> | <i>120.2</i> | <i>120.5</i> | <i>120.8</i> | <i>121.1</i> | <i>121.5</i> | <i>121.8</i> | <i>118.4</i> | <i>120.0</i> | <i>121.3</i> |
| Miscellaneous | | | | | | | | | | | | | | | |
| Gas Weighted Industrial Production (index, 1997=100.0)..... | 103.5 | 105.1 | 106.4 | <i>107.1</i> | <i>108.2</i> | <i>109.0</i> | <i>109.5</i> | <i>110.1</i> | <i>110.7</i> | <i>111.4</i> | <i>112.2</i> | <i>112.9</i> | <i>105.5</i> | <i>109.2</i> | <i>111.8</i> |
| Vehicle Miles Traveled ^b (million miles/day)..... | 7433 | 8278 | 8258 | <i>7984</i> | <i>7569</i> | <i>8387</i> | <i>8378</i> | <i>8060</i> | <i>7677</i> | <i>8515</i> | <i>8505</i> | <i>8188</i> | <i>7989</i> | <i>8100</i> | <i>8224</i> |
| Vehicle Fuel Efficiency (index, 1999=1.000)..... | 0.985 | 1.051 | 1.047 | <i>1.017</i> | <i>0.988</i> | <i>1.047</i> | <i>1.043</i> | <i>1.014</i> | <i>0.966</i> | <i>1.071</i> | <i>1.070</i> | <i>1.030</i> | <i>1.026</i> | <i>1.024</i> | <i>1.035</i> |
| Real Vehicle Fuel Cost (cents per mile)..... | 4.51 | 4.83 | 4.75 | <i>4.99</i> | <i>4.91</i> | <i>5.70</i> | <i>5.50</i> | <i>5.40</i> | <i>5.56</i> | <i>5.54</i> | <i>5.39</i> | <i>5.25</i> | <i>4.78</i> | <i>5.39</i> | <i>5.43</i> |
| Air Travel Capacity (mill. available ton-miles/day)..... | 475.3 | 502.8 | 525.2 | <i>521.0</i> | <i>515.3</i> | <i>535.4</i> | <i>546.0</i> | <i>529.6</i> | <i>527.4</i> | <i>547.6</i> | <i>564.7</i> | <i>549.1</i> | <i>506.2</i> | <i>531.7</i> | <i>547.3</i> |
| Aircraft Utilization (mill. revenue ton-miles/day)..... | 265.8 | 304.0 | 316.3 | <i>305.2</i> | <i>295.0</i> | <i>323.8</i> | <i>337.4</i> | <i>315.4</i> | <i>308.5</i> | <i>335.6</i> | <i>349.3</i> | <i>327.6</i> | <i>297.9</i> | <i>318.0</i> | <i>330.3</i> |
| Airline Ticket Price Index (index, 1982-1984=1.000)..... | 2.275 | 2.317 | 2.263 | <i>2.233</i> | <i>2.214</i> | <i>2.272</i> | <i>2.303</i> | <i>2.263</i> | <i>2.317</i> | <i>2.373</i> | <i>2.394</i> | <i>2.348</i> | <i>2.272</i> | <i>2.263</i> | <i>2.358</i> |
| Raw Steel Production (million tons)..... | 26.32 | 27.07 | 27.71 | <i>27.50</i> | <i>26.74</i> | <i>27.21</i> | <i>27.32</i> | <i>26.68</i> | <i>27.49</i> | <i>27.73</i> | <i>27.76</i> | <i>27.04</i> | <i>108.60</i> | <i>107.94</i> | <i>110.02</i> |

^aMacroeconomic projections from Global Insight model forecasts are seasonally adjusted at annual rates and modified as appropriate to the base world oil price case.

^bIncludes all highway travel.

SAAR: Seasonally-adjusted annualized rate.

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

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. Macroeconomic projections are based on Global Insight Model of US Economy, March 2005.

Table 3. International Petroleum Supply and Demand: Base Case
(Million Barrels per Day, Except OECD Commercial Stocks)

| | 2004 | | | | 2005 | | | | 2006 | | | | Year | | |
|--|-------------|-------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 2004 | 2005 | 2006 |
| Demand ^a | | | | | | | | | | | | | | | |
| OECD | | | | | | | | | | | | | | | |
| U.S. (50 States)..... | 20.4 | 20.2 | 20.6 | 20.9 | 20.7 | 20.7 | 21.0 | 21.1 | 21.2 | 20.9 | 21.2 | 21.4 | 20.5 | 20.9 | 21.2 |
| U.S. Territories..... | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Canada | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.2 | 2.4 | 2.4 | 2.3 | 2.3 | 2.4 | 2.4 | 2.3 | 2.3 | 2.4 |
| Europe | 15.8 | 15.3 | 15.7 | 16.2 | 15.8 | 15.6 | 15.8 | 16.0 | 15.9 | 15.7 | 15.9 | 16.1 | 15.7 | 15.8 | 15.9 |
| Japan | 6.1 | 5.0 | 5.2 | 5.5 | 6.0 | 4.9 | 5.1 | 5.5 | 6.0 | 4.9 | 5.1 | 5.5 | 5.4 | 5.4 | 5.4 |
| Other OECD..... | 5.3 | 5.1 | 5.1 | 5.4 | 5.3 | 5.2 | 5.3 | 5.4 | 5.4 | 5.3 | 5.4 | 5.5 | 5.2 | 5.3 | 5.4 |
| Total OECD..... | 50.2 | 48.2 | 49.2 | 50.7 | 50.5 | 48.9 | 50.0 | 50.9 | 51.2 | 49.4 | 50.5 | 51.5 | 49.6 | 50.1 | 50.6 |
| Non-OECD | | | | | | | | | | | | | | | |
| Former Soviet Union | 4.2 | 3.9 | 4.0 | 4.6 | 4.4 | 3.9 | 4.1 | 4.7 | 4.5 | 3.9 | 4.2 | 4.8 | 4.2 | 4.3 | 4.3 |
| Europe | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.8 |
| China..... | 6.2 | 6.6 | 6.8 | 6.9 | 7.1 | 7.4 | 7.4 | 7.7 | 7.7 | 7.9 | 7.9 | 8.2 | 6.6 | 7.4 | 7.9 |
| Other Asia | 8.0 | 8.2 | 8.2 | 8.6 | 8.3 | 8.5 | 8.5 | 9.0 | 8.6 | 8.8 | 8.8 | 9.3 | 8.3 | 8.6 | 8.9 |
| Other Non-OECD..... | 13.1 | 13.1 | 13.3 | 13.3 | 13.6 | 13.7 | 13.9 | 13.9 | 14.2 | 14.2 | 14.5 | 14.5 | 13.2 | 13.8 | 14.3 |
| Total Non-OECD..... | 32.2 | 32.5 | 33.0 | 34.2 | 34.1 | 34.2 | 34.6 | 35.9 | 35.7 | 35.7 | 36.1 | 37.5 | 33.0 | 34.7 | 36.2 |
| Total World Demand..... | 82.4 | 80.7 | 82.2 | 84.9 | 84.6 | 83.1 | 84.6 | 86.8 | 86.9 | 85.1 | 86.6 | 88.9 | 82.6 | 84.8 | 86.9 |
| Supply ^b | | | | | | | | | | | | | | | |
| OECD | | | | | | | | | | | | | | | |
| U.S. (50 States)..... | 8.9 | 8.7 | 8.5 | 8.6 | 8.6 | 8.6 | 8.7 | 9.0 | 9.1 | 9.1 | 9.0 | 9.2 | 8.7 | 8.8 | 9.1 |
| Canada | 3.2 | 3.1 | 3.1 | 3.1 | 3.2 | 3.1 | 3.2 | 3.2 | 3.2 | 3.1 | 3.2 | 3.3 | 3.1 | 3.2 | 3.2 |
| Mexico..... | 3.8 | 3.9 | 3.8 | 3.8 | 3.8 | 3.8 | 3.9 | 3.8 | 3.8 | 3.9 | 3.9 | 3.8 | 3.8 | 3.8 | 3.8 |
| North Sea ^c | 5.9 | 5.7 | 5.2 | 5.5 | 5.5 | 5.3 | 5.1 | 5.3 | 5.4 | 5.1 | 4.9 | 5.1 | 5.6 | 5.3 | 5.1 |
| Other OECD..... | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Total OECD..... | 23.3 | 23.0 | 22.2 | 22.6 | 22.6 | 22.4 | 22.4 | 22.8 | 23.0 | 22.7 | 22.5 | 22.8 | 22.8 | 22.5 | 22.8 |
| Non-OECD | | | | | | | | | | | | | | | |
| OPEC..... | 32.2 | 32.2 | 33.6 | 33.6 | 33.7 | 34.0 | 34.5 | 34.8 | 35.1 | 35.1 | 35.3 | 35.6 | 32.9 | 34.2 | 35.3 |
| Crude Oil Portion..... | 28.4 | 28.6 | 29.7 | 29.7 | 29.7 | 30.0 | 30.4 | 30.7 | 31.0 | 31.0 | 31.2 | 31.5 | 29.1 | 30.2 | 31.2 |
| Former Soviet Union | 11.0 | 11.2 | 11.5 | 11.6 | 11.6 | 11.7 | 11.8 | 12.0 | 12.2 | 12.3 | 12.4 | 12.7 | 11.3 | 11.8 | 12.4 |
| China..... | 3.6 | 3.6 | 3.7 | 3.7 | 3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| Other Non-OECD..... | 12.2 | 12.3 | 12.4 | 12.5 | 12.4 | 12.5 | 12.7 | 12.8 | 12.7 | 12.9 | 13.1 | 13.2 | 12.4 | 12.6 | 13.0 |
| Total Non-OECD..... | 59.0 | 59.3 | 61.2 | 61.4 | 61.3 | 61.8 | 62.6 | 63.3 | 63.6 | 63.9 | 64.4 | 65.1 | 60.2 | 62.3 | 64.2 |
| Total World Supply..... | 82.3 | 82.3 | 83.4 | 83.9 | 83.9 | 84.2 | 85.0 | 86.1 | 86.6 | 86.5 | 87.0 | 87.9 | 83.0 | 84.8 | 87.0 |
| Stock Changes ^d (incl. strategic) and Balance | | | | | | | | | | | | | | | |
| U.S. (50 States) Stock Chg. | 0.0 | -0.7 | -0.2 | 0.0 | 0.0 | -0.5 | 0.0 | 0.3 | 0.3 | -0.6 | 0.0 | 0.3 | -0.2 | 0.0 | 0.0 |
| Other OECD Stock Chg..... | 0.5 | -0.2 | -0.3 | 0.1 | 0.5 | -0.1 | -0.3 | 0.1 | 0.0 | -0.2 | -0.2 | 0.4 | 0.0 | 0.1 | 0.0 |
| Other Stock Chgs. and Bal. | -0.3 | -0.7 | -0.7 | 0.8 | 0.2 | -0.5 | -0.2 | 0.3 | 0.1 | -0.7 | -0.2 | 0.4 | -0.2 | 0.0 | -0.1 |
| Total..... | 0.2 | -1.6 | -1.2 | 0.9 | 0.7 | -1.1 | -0.4 | 0.7 | 0.3 | -1.5 | -0.4 | 1.0 | -0.4 | 0.0 | -0.1 |
| OECD Comm. Stocks, End (bill. bbls.) | 2.46 | 2.54 | 2.58 | 2.57 | 2.52 | 2.58 | 2.60 | 2.56 | 2.54 | 2.61 | 2.63 | 2.57 | 2.57 | 2.56 | 2.57 |
| Non-OPEC Supply | 50.1 | 50.1 | 49.8 | 50.3 | 50.2 | 50.2 | 50.5 | 51.3 | 51.5 | 51.4 | 51.6 | 52.3 | 50.1 | 50.6 | 51.7 |

^aDemand 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.

^bIncludes 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.

^cIncludes offshore supply from Denmark, Germany, the Netherlands, Norway, and the United Kingdom.

^dStock draw shown as positive number; withdrawal shown as negative.

OECD: Organization for Economic Cooperation and Development: Australia, Austria, Belgium, Canada, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, South Korea, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and the United States.

OPEC: Organization of Petroleum Exporting Countries: Algeria, 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; estimates and forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

Sources: EIA: latest data available from EIA databases supporting the *International Petroleum Monthly*; International Energy Agency, Monthly Oil Data Service, Latest monthly release.

Table 3a. OPEC Oil Production
(Thousand Barrels Per Day)

| | 03/16/2005 | February 2005 | March 2005 | | |
|----------------------------|---------------|---------------|------------|-----------------|------------------|
| | OPEC 10 Quota | Production | Production | Capacity | Surplus Capacity |
| Algeria | 878 | 1,305 | 1,305 | 1,305 | 0 |
| Indonesia | 1,425 | 960 | 960 | 960 | 0 |
| Iran | 4,037 | 3,900 | 3,900 | 3,900 | 0 |
| Kuwait | 2,207 | 2,500 | 2,500 | 2,500 | 0 |
| Libya | 1,473 | 1,600 | 1,600 | 1,600 | 0 |
| Nigeria | 2,265 | 2,300 | 2,300 | 2,300 | 0 |
| Qatar | 713 | 800 | 800 | 800 | 0 |
| Saudi Arabia | 8,937 | 9,500 | 9,500 | 10,500 - 11,000 | 1,000 - 1,500 |
| United Arab Emirates | 2,400 | 2,400 | 2,450 | 2,500 | 50 |
| Venezuela | 3,165 | 2,600 | 2,600 | 2,600 | 0 |
| OPEC 10 | 27,500 | 27,865 | 27,915 | 28,965 - 29,465 | 1,050 - 1,550 |
| Iraq | | 1,900 | 1,900 | 1,900 | 0 |
| Crude Oil Total | | 29,765 | 29,815 | 30,865 - 31,365 | 1,050 - 1,550 |
| Other Liquids | | 3,916 | 3,916 | | |
| Total OPEC Supply | | 33,681 | 33,731 | | |

Notes: Crude oil does not include lease condensate or natural gas liquids. OPEC Quotas are based on crude oil production only. "Capacity" refers to maximum sustainable production capacity, defined as the maximum amount of production that: 1) could be brought online within a period of 30 days; and 2) sustained for at least 90 days. Kuwaiti and Saudi Arabian figures each include half of the production from the Neutral Zone between the two countries. Saudi Arabian production also includes oil produced from its offshore Abu Safa field produced on behalf of Bahrain. The amount of Saudi Arabian spare capacity that can be brought online is shown as a range, because a short delay may be needed to achieve the higher level. The United Arab Emirates (UAE) is a federation of seven emirates. The UAE 's OPEC quota applies only to the emirate of Abu Dhabi, which controls the vast majority of the UAE's economic and resource wealth. Venezuelan capacity and production numbers exclude extra heavy crude oil used to make Orimulsion. OPEC: Organization of Petroleum Exporting Countries: Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. OPEC 10 refers to all OPEC less Iraq. Iraqi production and exports have not been a part of any recent OPEC agreements. Iraq's current production number in this table is net of re-injection and water cut. Latest estimated gross production is about 2.3 million barrels per day. Other liquids include lease condensate, natural gas liquids, and other liquids including volume gains from refinery processing.

Table 4. U.S. Energy Prices: Base Case
(Nominal Dollars)

| | 2004 | | | | 2005 | | | | 2006 | | | | Year | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 2004 | 2005 | 2006 |
| Crude Oil Prices (dollars per barrel) | | | | | | | | | | | | | | | |
| Imported Average ^a | 31.12 | 33.97 | 38.64 | 39.91 | 41.67 | <i>48.95</i> | <i>48.80</i> | <i>48.65</i> | <i>48.50</i> | <i>48.35</i> | <i>48.20</i> | <i>48.05</i> | 36.00 | <i>47.06</i> | <i>48.27</i> |
| WTI ^b Spot Average | 35.24 | 38.35 | 43.87 | 48.31 | 49.77 | <i>56.85</i> | <i>56.40</i> | <i>55.95</i> | <i>55.50</i> | <i>55.05</i> | <i>54.60</i> | <i>54.15</i> | 41.44 | <i>54.74</i> | <i>54.83</i> |
| Natural Gas (dollars per thousand cubic feet) | | | | | | | | | | | | | | | |
| Average Wellhead | 5.22 | 5.56 | 5.28 | 5.92 | 5.83 | <i>6.37</i> | <i>6.00</i> | <i>6.87</i> | <i>7.24</i> | <i>5.72</i> | <i>5.75</i> | <i>6.71</i> | 5.49 | <i>6.27</i> | <i>6.36</i> |
| Henry Hub Spot | 5.81 | 6.29 | 5.66 | 6.47 | 6.62 | <i>6.79</i> | <i>6.53</i> | <i>7.82</i> | <i>7.45</i> | <i>6.12</i> | <i>6.38</i> | <i>7.63</i> | 6.05 | <i>6.95</i> | <i>6.90</i> |
| Petroleum Products (dollars per gallon) | | | | | | | | | | | | | | | |
| Gasoline Retail ^c | | | | | | | | | | | | | | | |
| All Grades | 1.70 | 1.96 | 1.93 | 1.98 | 1.98 | <i>2.36</i> | <i>2.28</i> | <i>2.19</i> | <i>2.21</i> | <i>2.34</i> | <i>2.27</i> | <i>2.17</i> | 1.89 | <i>2.21</i> | <i>2.25</i> |
| Regular Unleaded | 1.65 | 1.92 | 1.89 | 1.94 | 1.94 | <i>2.32</i> | <i>2.25</i> | <i>2.15</i> | <i>2.16</i> | <i>2.31</i> | <i>2.23</i> | <i>2.13</i> | 1.85 | <i>2.17</i> | <i>2.21</i> |
| Distillate Fuel | | | | | | | | | | | | | | | |
| Retail Diesel | 1.59 | 1.72 | 1.83 | 2.10 | 2.06 | <i>2.27</i> | <i>2.22</i> | <i>2.26</i> | <i>2.28</i> | <i>2.25</i> | <i>2.18</i> | <i>2.22</i> | 1.81 | <i>2.21</i> | <i>2.23</i> |
| Wholesale Heating Oil | 0.95 | 1.00 | 1.18 | 1.37 | 1.38 | <i>1.51</i> | <i>1.50</i> | <i>1.56</i> | <i>1.57</i> | <i>1.50</i> | <i>1.46</i> | <i>1.51</i> | 1.13 | <i>1.48</i> | <i>1.52</i> |
| Retail Heating Oil | 1.42 | 1.41 | 1.51 | 1.81 | 1.85 | <i>1.90</i> | <i>1.85</i> | <i>2.01</i> | <i>2.08</i> | <i>1.97</i> | <i>1.86</i> | <i>1.98</i> | 1.54 | <i>1.90</i> | <i>1.98</i> |
| No. 6 Residual Fuel Oil, Retail ^d | 0.70 | 0.72 | 0.74 | 0.80 | 0.79 | <i>0.86</i> | <i>0.88</i> | <i>0.94</i> | <i>0.97</i> | <i>0.91</i> | <i>0.92</i> | <i>0.96</i> | 0.74 | <i>0.87</i> | <i>0.94</i> |
| Electric Power Sector (dollars per million Btu) | | | | | | | | | | | | | | | |
| Coal | 1.30 | 1.32 | 1.37 | 1.41 | 1.42 | <i>1.41</i> | <i>1.40</i> | <i>1.40</i> | <i>1.42</i> | <i>1.42</i> | <i>1.41</i> | <i>1.41</i> | 1.35 | <i>1.41</i> | <i>1.41</i> |
| Heavy Fuel Oil ^e | 4.51 | 4.90 | 4.91 | 5.29 | 4.82 | <i>5.26</i> | <i>6.15</i> | <i>6.53</i> | <i>5.91</i> | <i>6.23</i> | <i>6.61</i> | <i>6.71</i> | 4.86 | <i>5.62</i> | <i>6.34</i> |
| Natural Gas | 5.69 | 6.04 | 5.73 | 6.37 | 7.17 | <i>6.63</i> | <i>6.35</i> | <i>7.36</i> | <i>7.89</i> | <i>6.21</i> | <i>6.18</i> | <i>7.20</i> | 5.94 | <i>6.79</i> | <i>6.74</i> |
| Other Residential | | | | | | | | | | | | | | | |
| Natural Gas | | | | | | | | | | | | | | | |
| (dollars per thousand cubic feet)..... | 9.82 | 11.33 | 13.49 | 11.29 | 10.77 | <i>11.42</i> | <i>13.98</i> | <i>11.92</i> | <i>11.86</i> | <i>12.54</i> | <i>13.49</i> | <i>11.84</i> | 10.73 | <i>11.45</i> | <i>12.08</i> |
| Electricity | | | | | | | | | | | | | | | |
| (cents per kilowatthour) | 8.37 | 9.09 | 9.39 | 8.78 | 8.65 | <i>9.42</i> | <i>9.63</i> | <i>9.22</i> | <i>9.06</i> | <i>9.77</i> | <i>9.95</i> | <i>9.45</i> | 8.92 | <i>9.24</i> | <i>9.57</i> |

^aRefiner acquisition cost (RAC) of imported crude oil.

^bWest Texas Intermediate.

^cAverage self-service cash prices.

^dAverage for all sulfur contents.

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

Sources: Historical data: EIA: 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: Base Case
(Million Barrels per Day, Except Closing Stocks)

| | 2004 | | | | 2005 | | | | 2006 | | | | Year | | |
|---|--------------|--------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 2004 | 2005 | 2006 |
| Supply | | | | | | | | | | | | | | | |
| Crude Oil Supply | | | | | | | | | | | | | | | |
| Domestic Production ^a | 5.62 | 5.53 | 5.26 | 5.32 | 5.41 | 5.45 | 5.50 | 5.76 | 5.87 | 5.81 | 5.77 | 5.89 | 5.43 | 5.53 | 5.83 |
| Alaska | 0.96 | 0.94 | 0.79 | 0.94 | 0.92 | 0.89 | 0.86 | 0.93 | 0.93 | 0.88 | 0.84 | 0.87 | 0.91 | 0.90 | 0.88 |
| Lower 48..... | 4.65 | 4.59 | 4.47 | 4.38 | 4.49 | 4.56 | 4.64 | 4.83 | 4.94 | 4.94 | 4.93 | 5.01 | 4.52 | 4.63 | 4.95 |
| Net Commercial Imports ^b | 9.55 | 10.26 | 10.12 | 10.12 | 10.00 | 10.51 | 10.12 | 9.85 | 9.63 | 10.39 | 10.06 | 9.94 | 10.01 | 10.12 | 10.01 |
| Net SPR Withdrawals | -0.16 | -0.11 | -0.09 | -0.06 | -0.14 | -0.10 | -0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.10 | -0.07 | 0.00 |
| Net Commercial Withdrawals | -0.27 | -0.12 | 0.33 | -0.13 | -0.34 | 0.09 | 0.25 | 0.04 | -0.20 | 0.01 | 0.21 | -0.02 | -0.05 | 0.01 | 0.00 |
| Product Supplied and Losses | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Unaccounted-for Crude Oil | 0.05 | 0.36 | 0.14 | 0.20 | 0.17 | 0.13 | 0.09 | 0.03 | 0.09 | 0.12 | 0.08 | 0.02 | 0.19 | 0.11 | 0.08 |
| Total Crude Oil Supply | 14.78 | 15.92 | 15.76 | 15.46 | 15.11 | 16.09 | 15.92 | 15.68 | 15.39 | 16.33 | 16.13 | 15.83 | 15.48 | 15.70 | 15.92 |
| Other Supply | | | | | | | | | | | | | | | |
| NGL Production..... | 1.81 | 1.77 | 1.82 | 1.84 | 1.79 | 1.78 | 1.82 | 1.83 | 1.84 | 1.84 | 1.86 | 1.89 | 1.81 | 1.81 | 1.86 |
| Other Hydrocarbon and Alcohol | | | | | | | | | | | | | | | |
| Inputs | 0.42 | 0.43 | 0.43 | 0.42 | 0.44 | 0.42 | 0.43 | 0.42 | 0.43 | 0.42 | 0.44 | 0.43 | 0.42 | 0.43 | 0.43 |
| Crude Oil Product Supplied | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Processing Gain | 1.02 | 1.02 | 0.99 | 1.07 | 0.99 | 1.00 | 0.98 | 1.00 | 1.00 | 0.99 | 0.98 | 1.00 | 1.02 | 0.99 | 0.99 |
| Net Product Imports ^c | 1.89 | 1.57 | 1.98 | 1.92 | 1.88 | 1.90 | 1.97 | 1.89 | 2.04 | 1.92 | 2.01 | 1.98 | 1.84 | 1.91 | 1.98 |
| Product Stock Withdrawn or | | | | | | | | | | | | | | | |
| Added (-) | 0.45 | -0.46 | -0.40 | 0.17 | 0.50 | -0.52 | -0.17 | 0.29 | 0.47 | -0.62 | -0.17 | 0.32 | -0.06 | 0.02 | 0.00 |
| Total Supply | 20.37 | 20.25 | 20.58 | 20.87 | 20.71 | 20.67 | 20.95 | 21.13 | 21.18 | 20.88 | 21.24 | 21.45 | 20.52 | 20.87 | 21.19 |
| Demand | | | | | | | | | | | | | | | |
| Motor Gasoline | 8.78 | 9.16 | 9.17 | 9.13 | 8.91 | 9.32 | 9.34 | 9.25 | 9.05 | 9.45 | 9.53 | 9.40 | 9.06 | 9.21 | 9.36 |
| Jet Fuel | 1.57 | 1.60 | 1.64 | 1.65 | 1.64 | 1.67 | 1.72 | 1.72 | 1.67 | 1.69 | 1.76 | 1.78 | 1.62 | 1.69 | 1.72 |
| Distillate Fuel Oil | 4.25 | 3.94 | 3.93 | 4.12 | 4.27 | 4.00 | 3.99 | 4.24 | 4.45 | 4.07 | 4.02 | 4.29 | 4.06 | 4.12 | 4.21 |
| Residual Fuel Oil | 0.85 | 0.74 | 0.77 | 0.86 | 0.94 | 0.82 | 0.86 | 0.83 | 0.95 | 0.73 | 0.81 | 0.80 | 0.80 | 0.86 | 0.82 |
| Other Oils ^d | 4.91 | 4.81 | 5.07 | 5.11 | 4.93 | 4.86 | 5.05 | 5.08 | 5.06 | 4.93 | 5.11 | 5.17 | 4.98 | 4.98 | 5.07 |
| Total Demand..... | 20.36 | 20.25 | 20.58 | 20.87 | 20.70 | 20.67 | 20.95 | 21.12 | 21.17 | 20.88 | 21.23 | 21.44 | 20.52 | 20.86 | 21.18 |
| Total Petroleum Net Imports | 11.44 | 11.82 | 12.10 | 12.04 | 11.88 | 12.41 | 12.09 | 11.74 | 11.67 | 12.30 | 12.07 | 11.92 | 11.85 | 12.03 | 11.99 |
| Closing Stocks (million barrels) | | | | | | | | | | | | | | | |
| Crude Oil (excluding SPR)..... | 294 | 304 | 274 | 286 | 317 | 308 | 286 | 282 | 300 | 299 | 280 | 281 | 286 | 282 | 281 |
| Total Motor Gasoline | 201 | 209 | 206 | 215 | 212 | 212 | 202 | 208 | 206 | 215 | 204 | 208 | 215 | 208 | 208 |
| Finished Motor Gasoline..... | 133 | 141 | 136 | 143 | 135 | 141 | 132 | 137 | 131 | 143 | 134 | 137 | 143 | 137 | 137 |
| Blending Components | 68 | 68 | 71 | 72 | 77 | 71 | 70 | 71 | 76 | 72 | 70 | 71 | 72 | 71 | 71 |
| Jet Fuel | 36 | 39 | 41 | 40 | 37 | 39 | 40 | 40 | 38 | 40 | 41 | 40 | 40 | 40 | 40 |
| Distillate Fuel Oil..... | 104 | 114 | 123 | 126 | 101 | 111 | 122 | 128 | 101 | 113 | 125 | 131 | 126 | 128 | 131 |
| Residual Fuel Oil | 39 | 38 | 34 | 42 | 40 | 39 | 36 | 37 | 38 | 38 | 36 | 37 | 42 | 37 | 37 |
| Other Oils ^e | 240 | 263 | 294 | 259 | 248 | 284 | 300 | 261 | 249 | 282 | 299 | 259 | 259 | 261 | 259 |
| Total Stocks (excluding SPR) | 914 | 966 | 973 | 969 | 954 | 994 | 987 | 956 | 932 | 988 | 984 | 957 | 969 | 956 | 957 |
| Crude Oil in SPR..... | 652 | 662 | 670 | 676 | 688 | 697 | 700 | 700 | 700 | 700 | 700 | 700 | 676 | 700 | 700 |
| Heating Oil Reserve | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Total Stocks (incl SPR and | | | | | | | | | | | | | | | |
| HOR) | 1568 | 1631 | 1645 | 1647 | 1644 | 1693 | 1689 | 1658 | 1634 | 1690 | 1686 | 1659 | 1647 | 1658 | 1659 |

^aIncludes lease condensate.

^bNet imports equals gross imports minus exports.

^cIncludes finished petroleum products, unfinished oils, gasoline blending components, and natural gas plant liquids for processing.

^dIncludes 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.

^eIncludes 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

HOR: Heating Oil Reserve

NGL: Natural Gas Liquids

Notes: Minor discrepancies with other EIA published historical data are due to rounding, with the following exception: recent petroleum demand and supply data displayed here reflect the incorporation of resubmissions of the data as reported in EIA's *Petroleum Supply Monthly*, Table C1. Historical data are printed in bold; estimates and forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System model.

Sources: Historical data: EIA; 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^a for the STIFS^b
(Percent Deviation Base Case)

| Demand Sector | +1% GDP | + 10% Prices | | + 10% Weather ^e | | |
|-----------------------|---------|------------------------|-----------------------------|----------------------------|----------------------------|--|
| | | Crude Oil ^c | N.Gas Wellhead ^d | Fall/Winter ^f | Spring/Summer ^f | |
| Petroleum | | | | | | |
| 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% | |
| Natural Gas | | | | | | |
| 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 Power..... | 1.8% | 1.6% | -1.5% | 1.0% | 4.0% | |
| Coal | | | | | | |
| Total..... | 0.7% | 0.0% | 0.0% | 1.7% | 1.7% | |
| Electric Power..... | 0.6% | 0.0% | 0.0% | 1.9% | 1.9% | |
| Electricity | | | | | | |
| 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% | |

^aPercent change in demand quantity resulting from specified percent changes in model inputs.

^bShort-Term Integrated Forecasting System.

^cRefiner acquisitions cost of imported crude oil.

^dAverage unit value of marketed natural gas production reported by States.

^eRefers to percent changes in degree-days.

^fResponse during fall/winter period(first and fourth calendar quarters) refers to change in heating degree-days. Response during the spring/summer period (second and third calendar quarters) 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 |
| United States | 6.365 | 5.214 | 1.150 | 0.046 | 1.105 |
| Lower 48 States..... | 5.485 | 4.346 | 1.139 | 0.040 | 1.099 |
| Alaska..... | 0.880 | 0.868 | 0.011 | 0.006 | 0.006 |

Note: Components provided are for the fourth quarter 2006.

Source: EIA, Office of Oil and Gas, Reserves and Production Division.

Table 8. U.S. Natural Gas Supply and Demand: Base Case
(Trillion Cubic Feet)

| | 2004 | | | | 2005 | | | | 2006 | | | | Year | | |
|-----------------------------------|-------------|--------------|--------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 2004 | 2005 | 2006 |
| Supply | | | | | | | | | | | | | | | |
| Total Dry Gas Production..... | 4.76 | 4.69 | 4.70 | 4.63 | 4.59 | 4.68 | 4.78 | 4.85 | 4.76 | 4.74 | 4.76 | 4.82 | 18.78 | 18.91 | 19.09 |
| Gross Imports..... | 1.07 | 0.99 | 1.08 | 1.08 | 1.09 | 1.02 | 1.04 | 1.08 | 1.19 | 1.12 | 1.14 | 1.19 | 4.21 | 4.24 | 4.64 |
| Pipeline | 0.91 | 0.83 | 0.88 | 0.93 | 0.94 | 0.83 | 0.85 | 0.89 | 0.89 | 0.82 | 0.84 | 0.89 | 3.56 | 3.52 | 3.44 |
| LNG..... | 0.15 | 0.16 | 0.19 | 0.15 | 0.16 | 0.19 | 0.19 | 0.19 | 0.30 | 0.30 | 0.30 | 0.30 | 0.65 | 0.73 | 1.20 |
| Gross Exports | 0.21 | 0.17 | 0.19 | 0.20 | 0.17 | 0.15 | 0.17 | 0.19 | 0.16 | 0.16 | 0.17 | 0.19 | 0.76 | 0.67 | 0.67 |
| Net Imports | 0.86 | 0.82 | 0.89 | 0.88 | 0.93 | 0.87 | 0.88 | 0.90 | 1.03 | 0.96 | 0.97 | 1.00 | 3.45 | 3.57 | 3.97 |
| Supplemental Gaseous Fuels | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 0.05 | 0.06 | 0.07 |
| Total New Supply | 5.64 | 5.52 | 5.60 | 5.52 | 5.53 | 5.56 | 5.68 | 5.77 | 5.81 | 5.72 | 5.76 | 5.84 | 22.28 | 22.54 | 23.12 |
| Working Gas in Storage | | | | | | | | | | | | | | | |
| Opening | 2.56 | 1.06 | 2.02 | 3.06 | 2.70 | 1.19 | 2.08 | 3.06 | 2.58 | 0.98 | 1.94 | 2.94 | 2.56 | 2.70 | 2.58 |
| Closing | 1.06 | 2.02 | 3.06 | 2.70 | 1.19 | 2.08 | 3.06 | 2.58 | 0.98 | 1.94 | 2.94 | 2.48 | 2.70 | 2.58 | 2.48 |
| Net Withdrawals | 1.51 | -0.97 | -1.03 | 0.36 | 1.51 | -0.89 | -0.98 | 0.48 | 1.61 | -0.97 | -1.00 | 0.46 | -0.14 | 0.12 | 0.10 |
| Total Supply | 7.14 | 4.56 | 4.56 | 5.88 | 7.04 | 4.67 | 4.70 | 6.24 | 7.42 | 4.75 | 4.76 | 6.30 | 22.15 | 22.66 | 23.22 |
| Balancing Item ^a | 0.12 | 0.22 | 0.04 | -0.25 | 0.04 | 0.28 | 0.12 | -0.44 | -0.06 | 0.33 | 0.22 | -0.33 | 0.13 | 0.00 | 0.16 |
| Total Primary Supply | 7.26 | 4.78 | 4.60 | 5.63 | 7.08 | 4.95 | 4.82 | 5.81 | 7.36 | 5.09 | 4.98 | 5.96 | 22.28 | 22.66 | 23.39 |
| Demand | | | | | | | | | | | | | | | |
| Residential | 2.42 | 0.74 | 0.37 | 1.35 | 2.28 | 0.81 | 0.36 | 1.43 | 2.43 | 0.80 | 0.35 | 1.42 | 4.88 | 4.87 | 5.00 |
| Commercial..... | 1.30 | 0.54 | 0.36 | 0.80 | 1.26 | 0.58 | 0.38 | 0.87 | 1.31 | 0.58 | 0.38 | 0.87 | 3.00 | 3.08 | 3.14 |
| Industrial | 2.25 | 2.01 | 2.00 | 2.14 | 2.24 | 1.99 | 2.00 | 2.12 | 2.25 | 2.09 | 2.11 | 2.24 | 8.40 | 8.34 | 8.68 |
| Lease and Plant Fuel | 0.28 | 0.28 | 0.28 | 0.27 | 0.27 | 0.27 | 0.27 | 0.28 | 0.27 | 0.27 | 0.28 | 0.28 | 1.11 | 1.09 | 1.11 |
| Other Industrial..... | 1.97 | 1.73 | 1.73 | 1.87 | 1.97 | 1.73 | 1.72 | 1.84 | 1.97 | 1.81 | 1.83 | 1.96 | 7.30 | 7.26 | 7.57 |
| CHP ^b | 0.29 | 0.28 | 0.31 | 0.28 | 0.28 | 0.31 | 0.33 | 0.29 | 0.29 | 0.31 | 0.34 | 0.30 | 1.16 | 1.22 | 1.24 |
| Non-CHP | 1.68 | 1.44 | 1.42 | 1.59 | 1.69 | 1.41 | 1.39 | 1.55 | 1.68 | 1.50 | 1.49 | 1.66 | 6.13 | 6.04 | 6.33 |
| Transportation ^c | 0.21 | 0.14 | 0.14 | 0.17 | 0.21 | 0.14 | 0.13 | 0.17 | 0.21 | 0.14 | 0.14 | 0.17 | 0.66 | 0.65 | 0.67 |
| Electric Power ^d | 1.09 | 1.36 | 1.73 | 1.18 | 1.10 | 1.44 | 1.95 | 1.22 | 1.16 | 1.47 | 2.00 | 1.26 | 5.35 | 5.71 | 5.90 |
| Total Demand..... | 7.26 | 4.78 | 4.60 | 5.63 | 7.08 | 4.95 | 4.82 | 5.81 | 7.36 | 5.09 | 4.98 | 5.96 | 22.28 | 22.66 | 23.39 |

^aThe balancing item represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas demand.

^bNatural gas used for electricity generation and production of useful thermal output by combined heat and power (CHP) plants at industrial facilities. Includes a small amount of natural gas consumption at electricity-only plants in the industrial sector.

^cPipeline fuel use plus natural gas used as vehicle fuel.

^dNatural gas used for electricity generation and (a limited amount of) useful thermal output by electric utilities and independent power producers.

LNG = Liquefied natural gas

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

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

Table 9. U.S. Coal Supply and Demand: Base Case
(Million Short Tons)

| | 2004 | | | | 2005 | | | | 2006 | | | | Year | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 2004 | 2005 | 2006 |
| Supply | | | | | | | | | | | | | | | |
| Production..... | 275.5 | 274.2 | 281.4 | <i>280.4</i> | <i>269.8</i> | <i>270.0</i> | <i>295.1</i> | <i>290.7</i> | <i>293.4</i> | <i>278.9</i> | <i>299.7</i> | <i>297.7</i> | <i>1111.5</i> | <i>1125.7</i> | <i>1169.6</i> |
| Appalachia..... | 98.9 | 97.8 | 95.7 | <i>97.7</i> | <i>93.9</i> | <i>91.9</i> | <i>96.2</i> | <i>97.6</i> | <i>103.6</i> | <i>94.9</i> | <i>97.7</i> | <i>100.0</i> | <i>390.1</i> | <i>379.7</i> | <i>396.2</i> |
| Interior..... | 36.4 | 36.1 | 38.1 | <i>35.6</i> | <i>35.6</i> | <i>34.6</i> | <i>36.4</i> | <i>35.0</i> | <i>34.3</i> | <i>35.7</i> | <i>36.9</i> | <i>35.8</i> | <i>146.2</i> | <i>141.5</i> | <i>142.8</i> |
| Western..... | 140.2 | 140.2 | 147.7 | <i>147.1</i> | <i>140.3</i> | <i>143.6</i> | <i>162.5</i> | <i>158.1</i> | <i>155.5</i> | <i>148.3</i> | <i>165.1</i> | <i>161.8</i> | <i>575.2</i> | <i>604.5</i> | <i>630.7</i> |
| Primary Stock Levels ^a | | | | | | | | | | | | | | | |
| Opening..... | 38.3 | 36.6 | 35.3 | <i>31.9</i> | <i>34.4</i> | <i>34.9</i> | <i>35.9</i> | <i>33.6</i> | <i>34.6</i> | <i>35.1</i> | <i>35.3</i> | <i>33.2</i> | <i>38.3</i> | <i>34.4</i> | <i>34.6</i> |
| Closing..... | 36.6 | 35.3 | 31.9 | <i>34.4</i> | <i>34.9</i> | <i>35.9</i> | <i>33.6</i> | <i>34.6</i> | <i>35.1</i> | <i>35.3</i> | <i>33.2</i> | <i>35.1</i> | <i>34.4</i> | <i>34.6</i> | <i>35.1</i> |
| Net Withdrawals..... | 1.7 | 1.3 | 3.4 | <i>-2.4</i> | <i>-0.5</i> | <i>-1.1</i> | <i>2.3</i> | <i>-0.9</i> | <i>-0.5</i> | <i>-0.2</i> | <i>2.1</i> | <i>-1.9</i> | <i>3.9</i> | <i>-0.2</i> | <i>-0.5</i> |
| Imports..... | 5.3 | 6.9 | 7.8 | <i>7.3</i> | <i>6.3</i> | <i>7.4</i> | <i>8.8</i> | <i>8.6</i> | <i>6.5</i> | <i>8.5</i> | <i>9.8</i> | <i>8.2</i> | <i>27.3</i> | <i>31.0</i> | <i>33.0</i> |
| Exports..... | 9.7 | 15.3 | 12.2 | <i>10.9</i> | <i>12.4</i> | <i>12.8</i> | <i>12.2</i> | <i>12.1</i> | <i>10.9</i> | <i>12.0</i> | <i>11.9</i> | <i>11.4</i> | <i>48.0</i> | <i>49.4</i> | <i>46.2</i> |
| Total Net Domestic Supply..... | 272.8 | 267.1 | 280.4 | <i>274.4</i> | <i>263.2</i> | <i>263.5</i> | <i>294.1</i> | <i>286.3</i> | <i>288.4</i> | <i>275.2</i> | <i>299.8</i> | <i>292.6</i> | <i>1094.7</i> | <i>1107.0</i> | <i>1155.9</i> |
| Secondary Stock Levels ^b | | | | | | | | | | | | | | | |
| Opening..... | 127.2 | 118.4 | 126.3 | <i>113.0</i> | <i>112.9</i> | <i>116.6</i> | <i>121.5</i> | <i>113.7</i> | <i>117.2</i> | <i>120.0</i> | <i>128.5</i> | <i>119.6</i> | <i>127.2</i> | <i>112.9</i> | <i>117.2</i> |
| Closing..... | 118.4 | 126.3 | 113.0 | <i>112.9</i> | <i>116.6</i> | <i>121.5</i> | <i>113.7</i> | <i>117.2</i> | <i>120.0</i> | <i>128.5</i> | <i>119.6</i> | <i>123.3</i> | <i>112.9</i> | <i>117.2</i> | <i>123.3</i> |
| Net Withdrawals..... | 8.8 | -7.9 | 13.4 | <i>0.1</i> | <i>-3.7</i> | <i>-4.9</i> | <i>7.8</i> | <i>-3.6</i> | <i>-2.7</i> | <i>-8.5</i> | <i>8.9</i> | <i>-3.7</i> | <i>14.3</i> | <i>-4.3</i> | <i>-6.0</i> |
| Waste Coal Supplied to IPPs ^c | 2.9 | 2.9 | 2.9 | <i>3.8</i> | <i>3.8</i> | <i>3.8</i> | <i>3.7</i> | <i>3.8</i> | <i>3.8</i> | <i>3.8</i> | <i>3.7</i> | <i>3.8</i> | <i>12.5</i> | <i>15.1</i> | <i>15.1</i> |
| Total Supply..... | 284.5 | 262.1 | 296.6 | <i>278.3</i> | <i>263.2</i> | <i>262.4</i> | <i>305.6</i> | <i>286.5</i> | <i>289.5</i> | <i>270.4</i> | <i>312.4</i> | <i>292.7</i> | <i>1121.5</i> | <i>1117.8</i> | <i>1165.0</i> |
| Demand | | | | | | | | | | | | | | | |
| Coke Plants..... | 5.9 | 5.9 | 5.9 | <i>5.9</i> | <i>6.7</i> | <i>6.5</i> | <i>6.7</i> | <i>6.3</i> | <i>6.5</i> | <i>6.5</i> | <i>6.8</i> | <i>6.4</i> | <i>23.7</i> | <i>26.2</i> | <i>26.3</i> |
| Electric Power Sector ^d | 252.0 | 238.9 | 270.9 | <i>253.4</i> | <i>254.2</i> | <i>239.9</i> | <i>282.5</i> | <i>261.8</i> | <i>265.0</i> | <i>248.5</i> | <i>289.6</i> | <i>268.3</i> | <i>1015.1</i> | <i>1038.3</i> | <i>1071.3</i> |
| Retail and General Industry..... | 17.4 | 15.5 | 15.5 | <i>17.1</i> | <i>18.3</i> | <i>16.0</i> | <i>16.4</i> | <i>18.4</i> | <i>18.0</i> | <i>15.5</i> | <i>16.0</i> | <i>18.0</i> | <i>65.5</i> | <i>69.2</i> | <i>67.4</i> |
| Total Demand ^e | 275.3 | 260.3 | 292.2 | <i>276.4</i> | <i>279.2</i> | <i>262.4</i> | <i>305.6</i> | <i>286.5</i> | <i>289.5</i> | <i>270.4</i> | <i>312.4</i> | <i>292.7</i> | <i>1104.3</i> | <i>1133.8</i> | <i>1165.0</i> |
| Discrepancy ^f | 9.1 | 1.8 | 4.4 | <i>1.8</i> | <i>-16.0</i> | <i>0.0</i> | <i>0.0</i> | <i>0.0</i> | <i>0.0</i> | <i>0.0</i> | <i>0.0</i> | <i>0.0</i> | <i>17.2</i> | <i>-16.0</i> | <i>0.0</i> |

^aPrimary stocks are held at the mines, preparation plants, and distribution points.

^bSecondary stocks are held by users. It includes an estimate of stocks held at utility plants sold to nonutility generators.

^cEstimated independent power producers' (IPPs) consumption of waste coal. This item includes waste coal and coal slurry reprocessed into briquettes.

^dCoal used for electricity generation and (a limited amount of) useful thermal output by electric utilities and independent power producers.

^eTotal Demand includes estimated IPP consumption.

^fThe discrepancy reflects an unaccounted-for shipper and receiver reporting difference, assumed to be zero in the forecast period.

Notes: Totals may not add due to independent rounding. Minor discrepancies with other EIA published historical data are due to rounding. Historical data are printed in bold; estimates and forecasts are in italics. The forecasts were generated by simulation of the Short-Term Integrated Forecasting System.

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

Table 10a. U.S. Electricity Supply and Demand: Base Case
(Billion Kilowatthours)

| | 2004 | | | | 2005 | | | | 2006 | | | | Year | | |
|---|--------------|--------------|---------------|--------------|--------------|--------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 2004 | 2005 | 2006 |
| Net Electricity Generation | | | | | | | | | | | | | | | |
| Electric Power Sector ^a | | | | | | | | | | | | | | | |
| Coal | 490.0 | 461.4 | 518.1 | <i>484.5</i> | <i>487.6</i> | <i>458.6</i> | <i>539.4</i> | <i>499.7</i> | <i>505.3</i> | <i>473.1</i> | <i>551.2</i> | <i>510.0</i> | <i>1954.0</i> | <i>1985.3</i> | <i>2039.5</i> |
| Petroleum | 31.8 | 28.1 | 29.9 | <i>22.7</i> | <i>34.3</i> | <i>26.5</i> | <i>31.7</i> | <i>22.9</i> | <i>32.8</i> | <i>20.9</i> | <i>31.0</i> | <i>22.8</i> | <i>112.5</i> | <i>115.3</i> | <i>107.4</i> |
| Natural Gas..... | 125.8 | 156.4 | 200.4 | <i>136.0</i> | <i>131.8</i> | <i>166.6</i> | <i>223.4</i> | <i>146.3</i> | <i>140.8</i> | <i>171.6</i> | <i>230.9</i> | <i>153.3</i> | <i>618.6</i> | <i>668.2</i> | <i>696.6</i> |
| Nuclear | 198.2 | 191.3 | 209.0 | <i>190.1</i> | <i>192.2</i> | <i>192.9</i> | <i>207.5</i> | <i>192.5</i> | <i>197.4</i> | <i>193.4</i> | <i>208.1</i> | <i>193.2</i> | <i>788.5</i> | <i>785.1</i> | <i>792.1</i> |
| Hydroelectric..... | 63.9 | 67.3 | 62.1 | <i>63.3</i> | <i>72.2</i> | <i>80.8</i> | <i>66.4</i> | <i>65.7</i> | <i>74.6</i> | <i>84.2</i> | <i>69.8</i> | <i>67.7</i> | <i>256.6</i> | <i>285.1</i> | <i>296.3</i> |
| Other ^b | 15.1 | 16.6 | 16.2 | <i>15.5</i> | <i>15.7</i> | <i>16.3</i> | <i>17.1</i> | <i>16.8</i> | <i>16.5</i> | <i>17.0</i> | <i>17.8</i> | <i>17.5</i> | <i>63.5</i> | <i>65.9</i> | <i>68.8</i> |
| Subtotal | 924.9 | 921.0 | 1035.8 | <i>912.0</i> | <i>933.8</i> | <i>941.8</i> | <i>1085.5</i> | <i>943.9</i> | <i>967.4</i> | <i>960.1</i> | <i>1108.8</i> | <i>964.4</i> | <i>3793.6</i> | <i>3904.9</i> | <i>4000.7</i> |
| Other Sectors ^c | 40.0 | 39.4 | 41.7 | <i>38.7</i> | <i>39.9</i> | <i>41.0</i> | <i>42.8</i> | <i>40.6</i> | <i>40.0</i> | <i>40.6</i> | <i>43.1</i> | <i>41.1</i> | <i>159.8</i> | <i>164.4</i> | <i>164.8</i> |
| Total Generation | 964.9 | 960.5 | 1077.4 | <i>950.6</i> | <i>973.7</i> | <i>982.8</i> | <i>1128.3</i> | <i>984.5</i> | <i>1007.4</i> | <i>1000.7</i> | <i>1152.0</i> | <i>1005.5</i> | <i>3953.4</i> | <i>4069.3</i> | <i>4165.5</i> |
| Net Imports | -0.9 | 0.8 | 7.3 | <i>4.1</i> | <i>3.7</i> | <i>2.4</i> | <i>4.6</i> | <i>1.5</i> | <i>0.7</i> | <i>0.1</i> | <i>2.8</i> | <i>-0.1</i> | <i>11.3</i> | <i>12.2</i> | <i>3.6</i> |
| Total Supply..... | 964.0 | 961.3 | 1084.7 | <i>954.8</i> | <i>977.4</i> | <i>985.2</i> | <i>1132.9</i> | <i>986.0</i> | <i>1008.1</i> | <i>1000.9</i> | <i>1154.8</i> | <i>1005.4</i> | <i>3964.7</i> | <i>4081.4</i> | <i>4169.1</i> |
| Losses and Unaccounted for ^d | 47.1 | 67.4 | 63.3 | <i>59.9</i> | <i>47.9</i> | <i>68.9</i> | <i>66.1</i> | <i>61.8</i> | <i>49.3</i> | <i>70.0</i> | <i>67.4</i> | <i>63.0</i> | <i>237.8</i> | <i>244.8</i> | <i>249.7</i> |
| Demand | | | | | | | | | | | | | | | |
| Retail Sales ^e | | | | | | | | | | | | | | | |
| Residential..... | 339.1 | 288.5 | 369.2 | <i>296.7</i> | <i>336.7</i> | <i>297.6</i> | <i>388.9</i> | <i>308.2</i> | <i>354.6</i> | <i>303.4</i> | <i>398.1</i> | <i>316.8</i> | <i>1293.4</i> | <i>1331.4</i> | <i>1372.9</i> |
| Commercial ^f | 288.3 | 301.5 | 339.7 | <i>299.0</i> | <i>294.6</i> | <i>309.9</i> | <i>357.0</i> | <i>309.3</i> | <i>306.8</i> | <i>318.0</i> | <i>365.9</i> | <i>315.9</i> | <i>1228.5</i> | <i>1270.8</i> | <i>1306.6</i> |
| Industrial | 243.4 | 258.5 | 264.5 | <i>254.5</i> | <i>248.2</i> | <i>261.7</i> | <i>271.5</i> | <i>259.7</i> | <i>251.2</i> | <i>262.8</i> | <i>273.7</i> | <i>262.4</i> | <i>1020.9</i> | <i>1041.1</i> | <i>1050.2</i> |
| Transportation ^g | 1.9 | 1.8 | 2.0 | <i>1.9</i> | <i>2.1</i> | <i>1.9</i> | <i>2.1</i> | <i>2.0</i> | <i>1.9</i> | <i>1.8</i> | <i>2.1</i> | <i>2.0</i> | <i>7.7</i> | <i>8.1</i> | <i>7.8</i> |
| Subtotal | 872.7 | 850.3 | 975.4 | <i>852.1</i> | <i>881.5</i> | <i>871.0</i> | <i>1019.5</i> | <i>879.4</i> | <i>914.6</i> | <i>886.0</i> | <i>1039.8</i> | <i>897.1</i> | <i>3550.5</i> | <i>3651.4</i> | <i>3737.5</i> |
| Other Use/Sales ^h | 44.2 | 43.5 | 46.0 | <i>42.7</i> | <i>48.0</i> | <i>45.2</i> | <i>47.3</i> | <i>44.8</i> | <i>44.2</i> | <i>44.8</i> | <i>47.6</i> | <i>45.3</i> | <i>176.4</i> | <i>185.3</i> | <i>181.9</i> |
| Total Demand | 916.9 | 893.9 | 1021.3 | <i>894.8</i> | <i>929.5</i> | <i>916.3</i> | <i>1066.8</i> | <i>924.2</i> | <i>958.8</i> | <i>930.8</i> | <i>1087.4</i> | <i>942.4</i> | <i>3726.9</i> | <i>3836.7</i> | <i>3919.4</i> |

^aElectric utilities and independent power producers.

^b"Other" includes generation from other gaseous fuels, geothermal, wind, wood, waste, and solar sources.

^cElectricity generation from combined heat and power (CHP) facilities and electricity-only plants in the industrial and commercial sectors.

^dBalancing item, mainly transmission and distribution losses.

^eTotal of retail electricity sales by electric utilities and power marketers.

^fCommercial sector, including public street and highway lighting, interdepartmental sales and other sales to public authorities. These items, along with transportation sector; electricity were formerly included in an "other" category, which is no longer provided. (See EIA's *Monthly Energy Review*, Table 7.5, for a comparison of "Old Basis" and "New Basis" electricity retail sales.) Through 2003, data are estimated as the sum of "Old Basis Commercial" and approximately 95 percent of "Old Basis Other"; beginning in 2004, data are actual survey data.

^gTransportation sector, including sales to railroads and railways. Through 2003, data are estimated as approximately 5 percent of "Old Basis Other"; beginning in 2004, data are actual survey data.

^hDefined as the sum of facility use of onsite net electricity generation plus direct sales of power by industrial- or commercial-sector generators to third parties, reported annually in Table 7.5 of the *Monthly Energy Review (MER)*. Data for 2003 are estimates.

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

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

Table 10b. U.S. Electricity Generation by Sector: Base Case
(Billion Kilowatthours)

| | 2004 | | | | 2005 | | | | 2006 | | | | Year | | |
|----------------------------------|--------------|--------------|---------------|--------------|--------------|--------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 2004 | 2005 | 2006 |
| Electricity Generation by Sector | | | | | | | | | | | | | | | |
| Electric Power ^a | | | | | | | | | | | | | | | |
| Coal | 490.0 | 461.4 | 518.1 | <i>484.5</i> | <i>487.6</i> | <i>458.6</i> | <i>539.4</i> | <i>499.7</i> | <i>505.3</i> | <i>473.1</i> | <i>551.2</i> | <i>510.0</i> | <i>1954.0</i> | <i>1985.3</i> | <i>2039.5</i> |
| Petroleum | 31.8 | 28.1 | 29.9 | <i>22.7</i> | <i>34.3</i> | <i>26.5</i> | <i>31.7</i> | <i>22.9</i> | <i>32.8</i> | <i>20.9</i> | <i>31.0</i> | <i>22.8</i> | <i>112.5</i> | <i>115.3</i> | <i>107.4</i> |
| Natural Gas..... | 125.8 | 156.4 | 200.4 | <i>136.0</i> | <i>131.8</i> | <i>166.6</i> | <i>223.4</i> | <i>146.3</i> | <i>140.8</i> | <i>171.6</i> | <i>230.9</i> | <i>153.3</i> | <i>618.6</i> | <i>668.2</i> | <i>696.6</i> |
| Other ^b | 277.3 | 275.2 | 287.2 | <i>268.8</i> | <i>280.1</i> | <i>290.0</i> | <i>291.0</i> | <i>275.0</i> | <i>288.5</i> | <i>294.6</i> | <i>295.7</i> | <i>278.3</i> | <i>1108.6</i> | <i>1136.1</i> | <i>1157.2</i> |
| Subtotal | 924.9 | 921.0 | 1035.8 | <i>912.0</i> | <i>933.8</i> | <i>941.8</i> | <i>1085.5</i> | <i>943.9</i> | <i>967.4</i> | <i>960.1</i> | <i>1108.8</i> | <i>964.4</i> | <i>3793.6</i> | <i>3904.9</i> | <i>4000.7</i> |
| Commercial | | | | | | | | | | | | | | | |
| Coal | 0.3 | 0.3 | 0.3 | <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>0.3</i> | <i>0.3</i> | <i>0.3</i> | <i>1.1</i> | <i>1.1</i> | <i>1.1</i> |
| Petroleum | 0.1 | 0.1 | 0.1 | <i>0.1</i> | <i>0.1</i> | <i>0.1</i> | <i>0.1</i> | <i>0.1</i> | <i>0.1</i> | <i>0.1</i> | <i>0.1</i> | <i>0.1</i> | <i>0.4</i> | <i>0.4</i> | <i>0.4</i> |
| Natural Gas..... | 0.9 | 1.0 | 1.1 | <i>1.0</i> | <i>0.9</i> | <i>0.9</i> | <i>1.2</i> | <i>1.0</i> | <i>0.9</i> | <i>1.0</i> | <i>1.2</i> | <i>1.0</i> | <i>4.0</i> | <i>4.0</i> | <i>4.1</i> |
| Other ^b | 0.4 | 0.5 | 0.5 | <i>0.5</i> | <i>0.4</i> | <i>0.5</i> | <i>0.5</i> | <i>0.5</i> | <i>0.4</i> | <i>0.5</i> | <i>0.5</i> | <i>0.5</i> | <i>1.9</i> | <i>1.9</i> | <i>1.9</i> |
| Subtotal | 1.8 | 1.8 | 2.0 | <i>1.8</i> | <i>1.7</i> | <i>1.8</i> | <i>2.1</i> | <i>1.8</i> | <i>1.8</i> | <i>1.8</i> | <i>2.1</i> | <i>1.9</i> | <i>7.4</i> | <i>7.4</i> | <i>7.6</i> |
| Industrial | | | | | | | | | | | | | | | |
| Coal | 5.4 | 5.2 | 5.4 | <i>5.2</i> | <i>5.3</i> | <i>5.3</i> | <i>5.5</i> | <i>5.4</i> | <i>5.4</i> | <i>5.3</i> | <i>5.6</i> | <i>5.5</i> | <i>21.2</i> | <i>21.6</i> | <i>21.7</i> |
| Petroleum | 1.4 | 1.1 | 1.2 | <i>1.0</i> | <i>1.5</i> | <i>1.1</i> | <i>1.2</i> | <i>1.1</i> | <i>1.3</i> | <i>0.8</i> | <i>1.2</i> | <i>1.0</i> | <i>4.7</i> | <i>4.8</i> | <i>4.4</i> |
| Natural Gas..... | 19.1 | 19.1 | 20.6 | <i>18.2</i> | <i>18.7</i> | <i>20.7</i> | <i>22.0</i> | <i>19.3</i> | <i>19.2</i> | <i>20.8</i> | <i>22.4</i> | <i>19.8</i> | <i>77.0</i> | <i>80.7</i> | <i>82.2</i> |
| Other ^b | 12.3 | 12.2 | 12.5 | <i>12.4</i> | <i>12.7</i> | <i>12.2</i> | <i>11.9</i> | <i>13.0</i> | <i>12.3</i> | <i>11.9</i> | <i>11.8</i> | <i>12.9</i> | <i>49.4</i> | <i>49.8</i> | <i>48.9</i> |
| Subtotal | 38.2 | 37.6 | 39.7 | <i>36.9</i> | <i>38.2</i> | <i>39.2</i> | <i>40.7</i> | <i>38.8</i> | <i>38.2</i> | <i>38.8</i> | <i>41.0</i> | <i>39.2</i> | <i>152.4</i> | <i>157.0</i> | <i>157.2</i> |
| Total..... | 964.9 | 960.5 | 1077.4 | <i>950.6</i> | <i>973.7</i> | <i>982.8</i> | <i>1128.3</i> | <i>984.5</i> | <i>1007.4</i> | <i>1000.7</i> | <i>1152.0</i> | <i>1005.5</i> | <i>3953.4</i> | <i>4069.3</i> | <i>4165.5</i> |

^aElectric utilities and independent power producers.

^b"Other" includes nuclear, hydroelectric, geothermal, wood, waste, wind and solar power sources.

Note: Commercial and industrial categories include electricity output from combined heat and power (CHP) facilities and some electric-only plants.

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

Sources: Historical data: EIA; latest data available from EIA databases supporting the following report: *Electric Power Monthly*, DOE/EIA-0226. Projections: EIA, Short-Term Integrated Forecasting System database, and Office of Coal, Nuclear, Electric and Alternate Fuels (hydroelectric and nuclear).

Table 10c. U.S. Fuel Consumption for Electricity Generation by Sector: Base Case

| | 2004 | | | | 2005 | | | | 2006 | | | | Year | | |
|-----------------------------|--------------|--------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th | 2004 | 2005 | 2006 |
| (Quadrillion Btu) | | | | | | | | | | | | | | | |
| Electric Power ^a | | | | | | | | | | | | | | | |
| Coal..... | 5.13 | 4.86 | 5.51 | 5.16 | 5.17 | 4.88 | 5.75 | 5.33 | 5.39 | 5.05 | 5.89 | 5.46 | 20.65 | 21.12 | 21.79 |
| Petroleum..... | 0.34 | 0.30 | 0.32 | 0.24 | 0.37 | 0.28 | 0.34 | 0.24 | 0.35 | 0.22 | 0.33 | 0.24 | 1.20 | 1.23 | 1.15 |
| Natural Gas..... | 1.08 | 1.35 | 1.74 | 1.17 | 1.10 | 1.44 | 1.95 | 1.22 | 1.16 | 1.47 | 2.00 | 1.26 | 5.35 | 5.71 | 5.90 |
| Other ^b | 2.98 | 2.96 | 3.00 | 2.82 | 2.98 | 3.08 | 3.09 | 2.93 | 3.07 | 3.12 | 3.14 | 2.96 | 11.76 | 12.08 | 12.30 |
| Subtotal..... | 9.52 | 9.48 | 10.57 | 9.39 | 9.61 | 9.68 | 11.13 | 9.72 | 9.97 | 9.88 | 11.36 | 9.93 | 38.96 | 40.15 | 41.14 |
| Commercial | | | | | | | | | | | | | | | |
| Coal..... | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.02 |
| Petroleum..... | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 |
| Natural Gas..... | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.04 | 0.04 | 0.04 |
| Other ^b | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 |
| Subtotal..... | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.10 | 0.10 | 0.10 |
| Industrial | | | | | | | | | | | | | | | |
| Coal..... | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.09 | 0.09 | 0.10 | 0.10 | 0.38 | 0.38 | 0.38 |
| Petroleum..... | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 0.07 | 0.08 | 0.07 |
| Natural Gas..... | 0.20 | 0.19 | 0.21 | 0.19 | 0.19 | 0.21 | 0.22 | 0.20 | 0.19 | 0.21 | 0.23 | 0.20 | 0.78 | 0.82 | 0.83 |
| Other ^b | 0.08 | 0.13 | 0.16 | 0.19 | 0.21 | 0.20 | 0.19 | 0.21 | 0.20 | 0.19 | 0.19 | 0.21 | 0.57 | 0.81 | 0.79 |
| Subtotal..... | 0.41 | 0.43 | 0.48 | 0.49 | 0.52 | 0.51 | 0.53 | 0.52 | 0.51 | 0.51 | 0.53 | 0.52 | 1.81 | 2.08 | 2.07 |
| Total..... | 9.95 | 9.93 | 11.08 | 9.90 | 10.15 | 10.22 | 11.69 | 10.26 | 10.50 | 10.41 | 11.93 | 10.47 | 40.87 | 42.32 | 43.31 |
| (Physical Units) | | | | | | | | | | | | | | | |
| Electric Power ^a | | | | | | | | | | | | | | | |
| Coal (mmst)..... | 251.5 | 238.4 | 270.4 | 253.0 | 253.7 | 239.4 | 282.0 | 261.3 | 264.5 | 248.0 | 289.1 | 267.8 | 1013.3 | 1036.4 | 1069.4 |
| Petroleum (mmbd)..... | 0.60 | 0.53 | 0.56 | 0.43 | 0.66 | 0.50 | 0.60 | 0.43 | 0.63 | 0.40 | 0.58 | 0.43 | 0.53 | 0.55 | 0.51 |
| Natural Gas (tcf)..... | 1.05 | 1.32 | 1.70 | 1.15 | 1.07 | 1.41 | 1.91 | 1.19 | 1.13 | 1.44 | 1.95 | 1.23 | 5.22 | 5.57 | 5.75 |
| Commercial | | | | | | | | | | | | | | | |
| Coal (mmst)..... | 0.16 | 0.14 | 0.16 | 0.15 | 0.15 | 0.13 | 0.17 | 0.15 | 0.15 | 0.13 | 0.17 | 0.15 | 0.60 | 0.59 | 0.61 |
| Petroleum (mmbd)..... | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas (tcf)..... | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.04 | 0.04 | 0.04 |
| Industrial | | | | | | | | | | | | | | | |
| Coal (mmst)..... | 4.07 | 3.82 | 3.96 | 3.83 | 3.95 | 3.87 | 4.07 | 4.01 | 3.94 | 3.87 | 4.10 | 4.05 | 15.68 | 15.89 | 15.96 |
| Petroleum (mmbd)..... | 0.04 | 0.03 | 0.03 | 0.03 | 0.04 | 0.03 | 0.04 | 0.03 | 0.04 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Natural Gas (tcf)..... | 0.20 | 0.18 | 0.20 | 0.18 | 0.18 | 0.20 | 0.22 | 0.19 | 0.19 | 0.20 | 0.22 | 0.19 | 0.76 | 0.79 | 0.81 |

^aElectric utilities and independent power producers.

^b"Other" includes other gaseous fuels, nuclear, hydroelectric, geothermal, wood, waste, wind and solar power sources.

Note: Commercial and industrial categories include electricity output from combined heat and power (CHP) facilities and some electric-only plants.

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

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

Physical Units: mmst = million short tons; mmbd = million barrels per day; tcf = trillion cubic feet.

Table 11. U.S. Renewable Energy Use by Sector: Base Case
(Quadrillion Btu)

| | Year | | | | Annual Percentage Change | | |
|--|--------------|--------------|--------------|--------------|--------------------------|-----------|-----------|
| | 2003 | 2004 | 2005 | 2006 | 2003-2004 | 2004-2005 | 2005-2006 |
| Electricity Sector | | | | | | | |
| Hydroelectric Power ^a | 2.744 | <i>2.673</i> | <i>2.970</i> | <i>3.087</i> | -2.6 | 11.1 | 3.9 |
| Geothermal, Solar and Wind Energy ^b | 0.422 | <i>0.451</i> | <i>0.465</i> | <i>0.487</i> | 6.9 | 3.1 | 4.7 |
| Biofuels ^c | 0.522 | <i>0.508</i> | <i>0.521</i> | <i>0.535</i> | -2.7 | 2.6 | 2.7 |
| Total | 3.687 | <i>3.632</i> | <i>3.956</i> | <i>4.109</i> | -1.5 | 8.9 | 3.9 |
| Other Sectors ^d | | | | | | | |
| Residential and Commercial ^e | 0.541 | <i>0.570</i> | <i>0.585</i> | <i>0.595</i> | 5.4 | 2.6 | 1.7 |
| Residential | 0.435 | <i>0.456</i> | <i>0.466</i> | <i>0.476</i> | 4.8 | 2.2 | 2.1 |
| Commercial | 0.106 | <i>0.115</i> | <i>0.119</i> | <i>0.119</i> | 8.5 | 3.5 | 0.0 |
| Industrial ^f | 1.750 | <i>1.848</i> | <i>1.909</i> | <i>1.927</i> | 5.6 | 3.3 | 0.9 |
| Transportation ^g | 0.237 | <i>0.296</i> | <i>0.307</i> | <i>0.317</i> | 24.9 | 3.7 | 3.3 |
| Total | 2.529 | <i>2.714</i> | <i>2.801</i> | <i>2.839</i> | 7.3 | 3.2 | 1.4 |
| Total Renewable Energy Demand | 6.216 | <i>6.346</i> | <i>6.757</i> | <i>6.948</i> | 2.1 | 6.5 | 2.8 |

^aConventional hydroelectric power only. Hydroelectricity generated by pumped storage is not included in renewable energy.

^bAlso includes photovoltaic and solar thermal energy.

^cBiofuels are fuelwood, wood byproducts, waste wood, municipal solid waste, manufacturing process waste, and alcohol fuels.

^dRenewable energy includes minor components of non-marketed renewable energy, which is renewable energy that is neither bought nor sold, either directly or indirectly as inputs to marketed energy. EIA does not estimate or project total consumption of non-marketed renewable energy.

^eIncludes biofuels and solar energy consumed in the residential and commercial sectors.

^fConsists primarily of biofuels for use other than in electricity cogeneration.

^gEthanol blended into gasoline.

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

Sources: Historical data: EIA: latest data available from EIA databases supporting the following reports: *Electric Power Monthly*, DOE/EIA-0226 and *Renewable Energy Annual*, DOE/EIA-0603. Projections: EIA, Short-Term Integrated Forecasting System database, and Office of Coal, Nuclear, Electric and Alternate Fuels.

Table A1. Annual U.S. Energy Supply and Demand: Base Case

| | Year | | | | | | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Real Gross Domestic Product (GDP) (billion chained 2000 dollars) | 7337 | 7533 | 7835 | 8032 | 8329 | 8704 | 9067 | 9470 | 9817 | 9891 | 10075 | 10381 | <i>10842</i> | <i>11239</i> | <i>11574</i> |
| Imported Crude Oil Price ^a (nominal dollars per barrel) | 18.20 | 16.13 | 15.53 | 17.14 | 20.62 | 18.49 | 12.07 | 17.26 | 27.72 | 22.00 | 23.71 | 27.74 | <i>36.00</i> | <i>47.06</i> | <i>48.27</i> |
| Petroleum Supply | | | | | | | | | | | | | | | |
| Crude Oil Production ^b (million barrels per day) | 7.17 | 6.85 | 6.66 | 6.56 | 6.46 | 6.45 | 6.25 | 5.88 | 5.82 | 5.80 | 5.75 | 5.68 | <i>5.43</i> | <i>5.53</i> | <i>5.83</i> |
| Total Petroleum Net Imports (including SPR) (million barrels per day) | 6.94 | 7.62 | 8.05 | 7.89 | 8.50 | 9.16 | 9.76 | 9.91 | 10.42 | 10.90 | 10.54 | 11.24 | <i>11.85</i> | <i>12.03</i> | <i>11.99</i> |
| Energy Demand | | | | | | | | | | | | | | | |
| U.S. Petroleum (million barrels per day) | 17.10 | 17.24 | 17.72 | 17.72 | 18.31 | 18.62 | 18.92 | 19.52 | 19.70 | 19.65 | 19.76 | 20.03 | <i>20.52</i> | <i>20.86</i> | <i>21.18</i> |
| Natural Gas (trillion cubic feet) | 20.23 | 20.79 | 21.24 | 22.20 | 22.60 | 22.72 | 22.24 | 22.39 | 23.47 | 22.23 | 23.00 | 22.14 | <i>22.28</i> | <i>22.66</i> | <i>23.39</i> |
| Coal (million short tons)..... | 908 | 944 | 951 | 962 | 1006 | 1030 | 1037 | 1039 | 1084 | 1060 | 1066 | 1095 | <i>1104</i> | <i>1134</i> | <i>1165</i> |
| Electricity (billion kilowatthours) | | | | | | | | | | | | | | | |
| Retail Sales ^c | 2763 | 2861 | 2935 | 3013 | 3101 | 3146 | 3264 | 3312 | 3421 | 3370 | 3463 | 3488 | <i>3551</i> | <i>3651</i> | <i>3737</i> |
| Other Use/Sales ^d | 122 | 128 | 134 | 144 | 146 | 148 | 161 | 183 | 181 | 173 | 177 | 179 | <i>176</i> | <i>185</i> | <i>182</i> |
| Total | 2886 | 2989 | 3069 | 3157 | 3247 | 3294 | 3425 | 3495 | 3603 | 3543 | 3639 | 3667 | <i>3727</i> | <i>3837</i> | <i>3919</i> |
| Total Energy Demand ^e (quadrillion Btu) | 85.9 | 87.6 | 89.2 | 91.2 | 94.2 | 94.7 | 95.1 | 96.8 | 98.9 | 96.4 | 98.0 | 98.2 | <i>99.8</i> | <i>101.7</i> | <i>103.9</i> |
| Total Energy Demand per Dollar of GDP (thousand Btu per 1996 Dollar)..... | 11.72 | 11.63 | 11.39 | 11.36 | 11.31 | 10.88 | 10.49 | 10.24 | 10.07 | 9.74 | 9.73 | 9.46 | <i>9.20</i> | <i>9.05</i> | <i>8.98</i> |

^aRefers to the imported cost of crude oil to U.S. refiners.

^bIncludes lease condensate.

^cTotal of retail electricity sales by electric utilities and power marketers. Utility sales for historical periods are reported in Energy Information Administration (EIA) *Electric Power Monthly and Electric Power Annual*. Power marketers' sales for historical periods are reported in EIA's *Electric Sales and Revenue*, Appendix C.

^dDefined as the sum of facility use of onsite net electricity generation plus direct sales of power by industrial- or commercial-sector generators to third parties, reported annually in Table 7.5 of the *Monthly Energy Review (MER)*. Data for 2003 are estimates.

^e"Total Energy Demand" refers to the aggregate energy concept presented in EIA's *Annual Energy Review*, DOE/EIA-0384 (*AER*), Table 1.1. 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 EIA, *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; EIA; 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; *Quarterly Coal Report*, DOE/EIA-0121; *International Petroleum Monthly*, DOE/EIA-520, and *Weekly Petroleum Status Report* DOE/EIA-0208. Macroeconomic projections are based on Global Insight Model of the U.S. Economy, March 2005.

Table A2. Annual U.S. Macroeconomic and Weather Indicators: Base Case

| | Year | | | | | | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Macroeconomic | | | | | | | | | | | | | | | |
| Real Gross Domestic Product (billion chained 2000 dollars)..... | 7337 | 7533 | 7835 | 8032 | 8329 | 8704 | 9067 | 9470 | 9817 | 9891 | 10075 | 10381 | <i>10842</i> | <i>11239</i> | <i>11574</i> |
| GDP Implicit Price Deflator (Index, 2000=100)..... | 86.4 | 88.4 | 90.3 | 92.1 | 93.9 | 95.4 | 96.5 | 97.9 | 100.0 | 102.4 | 104.1 | 106.0 | <i>108.3</i> | <i>110.6</i> | <i>113.0</i> |
| Real Disposable Personal Income (billion chained 2000 Dollars)..... | 5536 | 5594 | 5746 | 5906 | 6081 | 6296 | 6664 | 6862 | 7194 | 7333 | 7560 | 7734 | <i>8006</i> | <i>8242</i> | <i>8516</i> |
| Manufacturing Production (Index, 1997=100)..... | 75.5 | 78.3 | 83.3 | 87.9 | 92.2 | 100.0 | 106.6 | 112.3 | 117.6 | 112.7 | 112.7 | 112.7 | <i>118.1</i> | <i>123.0</i> | <i>126.6</i> |
| Real Fixed Investment (billion chained 2000 dollars)..... | 878 | 953 | 1042 | 1110 | 1209 | 1321 | 1455 | 1576 | 1679 | 1629 | 1549 | 1627 | <i>1794</i> | <i>1928</i> | <i>1975</i> |
| Real Exchange Rate (Index, 2000=1.000)..... | 0.854 | 0.886 | 0.865 | 0.806 | 0.849 | 0.915 | 0.961 | 0.964 | 1.000 | 1.055 | 1.051 | 0.921 | <i>0.848</i> | <i>0.781</i> | <i>0.761</i> |
| Business Inventory Change (billion chained 2000 dollars)..... | -4.5 | 3.4 | 11.5 | 13.4 | 9.7 | 20.7 | 18.6 | 17.0 | 7.9 | -21.3 | -7.5 | -15.2 | <i>6.6</i> | <i>7.9</i> | <i>8.7</i> |
| Producer Price Index (index, 1982=1.000)..... | 1.172 | 1.189 | 1.205 | 1.248 | 1.277 | 1.276 | 1.244 | 1.255 | 1.328 | 1.342 | 1.311 | 1.381 | <i>1.467</i> | <i>1.526</i> | <i>1.546</i> |
| Consumer Price Index (index, 1982-1984=1.000)..... | 1.403 | 1.445 | 1.482 | 1.524 | 1.569 | 1.605 | 1.630 | 1.666 | 1.722 | 1.771 | 1.798 | 1.840 | <i>1.889</i> | <i>1.936</i> | <i>1.977</i> |
| Petroleum Product Price Index (index, 1982=1.000)..... | 0.647 | 0.620 | 0.591 | 0.608 | 0.701 | 0.680 | 0.513 | 0.609 | 0.913 | 0.853 | 0.795 | 0.977 | <i>1.194</i> | <i>1.414</i> | <i>1.471</i> |
| Non-Farm Employment (millions)..... | 108.7 | 110.8 | 114.3 | 117.3 | 119.7 | 122.8 | 125.9 | 129.0 | 131.8 | 131.8 | 130.3 | 130.0 | <i>131.5</i> | <i>133.7</i> | <i>135.6</i> |
| Commercial Employment (millions)..... | 70.9 | 72.9 | 75.7 | 78.4 | 80.7 | 83.4 | 86.1 | 89.1 | 91.4 | 92.0 | 91.4 | 91.7 | <i>93.3</i> | <i>95.3</i> | <i>97.0</i> |
| Total Industrial Production (index, 1997=100.0)..... | 78.4 | 80.9 | 85.3 | 89.4 | 93.2 | 100.0 | 105.8 | 110.6 | 115.4 | 111.3 | 111.0 | 110.9 | <i>115.5</i> | <i>119.8</i> | <i>122.9</i> |
| Housing Stock (millions)..... | 102.6 | 103.8 | 105.1 | 106.7 | 108.0 | 109.4 | 111.1 | 112.7 | 113.3 | 114.7 | 115.7 | 117.1 | <i>118.4</i> | <i>120.0</i> | <i>121.3</i> |
| Weather ^a | | | | | | | | | | | | | | | |
| Heating Degree-Days | | | | | | | | | | | | | | | |
| U.S..... | 4433 | 4671 | 4470 | 4516 | 4689 | 4525 | 3946 | 4154 | 4447 | 4193 | 4272 | 4459 | <i>4273</i> | <i>4410</i> | <i>4523</i> |
| New England..... | 6918 | 6803 | 6748 | 6632 | 6749 | 6726 | 5743 | 6013 | 6584 | 6112 | 6098 | 6847 | <i>6600</i> | <i>6705</i> | <i>6643</i> |
| Middle Atlantic..... | 6107 | 6039 | 6083 | 5967 | 6118 | 5942 | 4924 | 5495 | 5942 | 5438 | 5371 | 6097 | <i>5755</i> | <i>5947</i> | <i>5909</i> |
| U.S. Gas-Weighted..... | 4787 | 5062 | 4861 | 4905 | 5092 | 4911 | 4271 | 4510 | 4796 | 4534 | 4635 | 4828 | <i>4628</i> | <i>4790</i> | <i>4863</i> |
| Cooling Degree-Days (U.S.)..... | 1075 | 1251 | 1254 | 1322 | 1216 | 1195 | 1438 | 1328 | 1268 | 1288 | 1392 | 1282 | <i>1227</i> | <i>1234</i> | <i>1246</i> |

^aPopulation-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 2000 population.

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: U.S. Department of Commerce, Bureau of Economic Analysis; U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA); Federal Reserve System, Statistical Release G.17; U.S. Department of Transportation; American Iron and Steel Institute. Macroeconomic projections are based on Global Insight Model of the U.S. Economy, March 2005. Degree-day projections are from NOAA's Climate Prediction Center.

Table A3. U.S. Energy Supply and Demand: Base Case
(Quadrillion Btu except where noted)

| | Year | | | | | | | | | | | | | | |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Production | | | | | | | | | | | | | | | |
| Coal | 21.63 | 20.25 | 22.11 | 22.03 | 22.68 | 23.21 | 23.94 | 23.19 | 22.62 | 23.53 | 22.70 | 22.36 | 23.19 | 23.48 | 24.40 |
| Natural Gas..... | 18.38 | 18.58 | 19.35 | 19.08 | 19.27 | 19.32 | 19.61 | 19.34 | 19.66 | 20.20 | 19.49 | 19.60 | 19.30 | 19.44 | 19.62 |
| Crude Oil..... | 15.22 | 14.49 | 14.10 | 13.89 | 13.72 | 13.66 | 13.24 | 12.45 | 12.36 | 12.28 | 12.16 | 12.03 | 11.53 | 11.71 | 12.35 |
| Natural Gas Liquids | 2.36 | 2.41 | 2.39 | 2.44 | 2.53 | 2.50 | 2.42 | 2.53 | 2.61 | 2.55 | 2.56 | 2.35 | 2.48 | 2.46 | 2.54 |
| Nuclear | 6.48 | 6.41 | 6.69 | 7.08 | 7.09 | 6.60 | 7.07 | 7.61 | 7.86 | 8.03 | 8.14 | 7.97 | 8.23 | 8.20 | 8.27 |
| Hydroelectric..... | 2.57 | 2.85 | 2.65 | 3.18 | 3.56 | 3.60 | 3.25 | 3.21 | 2.75 | 2.11 | 2.59 | 2.71 | 2.62 | 2.94 | 3.06 |
| Other Renewables..... | 3.29 | 3.26 | 3.38 | 3.46 | 3.55 | 3.43 | 3.26 | 3.33 | 3.35 | 3.08 | 3.29 | 3.41 | 3.61 | 3.72 | 3.80 |
| Total..... | 69.94 | 68.26 | 70.68 | 71.16 | 72.40 | 72.31 | 72.79 | 71.65 | 71.22 | 71.79 | 70.93 | 70.43 | 70.96 | 71.96 | 74.04 |
| Net Imports | | | | | | | | | | | | | | | |
| Coal | -2.59 | -1.76 | -1.66 | -2.08 | -2.17 | -2.01 | -1.87 | -1.30 | -1.21 | -0.77 | -0.61 | -0.49 | -0.56 | -0.51 | -0.38 |
| Natural Gas..... | 1.94 | 2.25 | 2.52 | 2.74 | 2.85 | 2.90 | 3.06 | 3.50 | 3.62 | 3.69 | 3.59 | 3.39 | 3.54 | 3.67 | 4.07 |
| Crude Oil..... | 13.29 | 12.51 | 13.06 | 14.91 | 15.34 | 15.37 | 16.51 | 17.67 | 18.65 | 18.71 | 19.91 | 21.06 | 21.91 | 22.08 | 21.83 |
| Petroleum Products | 2.01 | 1.71 | 1.90 | 1.49 | 1.91 | 1.52 | 1.72 | 1.97 | 2.28 | 2.47 | 2.46 | 2.74 | 3.06 | 3.09 | 3.17 |
| Electricity | 0.09 | 0.09 | 0.15 | 0.13 | 0.14 | 0.12 | 0.09 | 0.10 | 0.12 | 0.08 | 0.08 | 0.02 | 0.04 | 0.04 | 0.01 |
| Coal Coke | 0.03 | 0.03 | 0.06 | 0.06 | 0.02 | 0.05 | 0.07 | 0.06 | 0.07 | 0.03 | 0.06 | 0.05 | 0.13 | 0.06 | 0.06 |
| Total..... | 14.77 | 14.84 | 16.03 | 17.25 | 18.10 | 17.95 | 19.57 | 22.00 | 23.53 | 24.20 | 25.49 | 26.77 | 28.11 | 28.43 | 28.77 |
| Adjustments ^a | -0.18 | 2.77 | 0.87 | 0.84 | 0.73 | 3.96 | 2.37 | 1.49 | 2.03 | 2.95 | -0.11 | 0.15 | -0.14 | 0.52 | 0.24 |
| Demand | | | | | | | | | | | | | | | |
| Coal | 19.12 | 19.84 | 19.91 | 20.09 | 21.00 | 21.45 | 21.66 | 21.62 | 22.58 | 21.66 | 22.02 | 22.62 | 22.62 | 23.24 | 23.86 |
| Natural Gas..... | 19.72 | 20.15 | 20.83 | 21.35 | 21.84 | 22.78 | 23.20 | 23.33 | 22.93 | 23.01 | 24.04 | 23.12 | 23.27 | 23.64 | 24.40 |
| Petroleum | 33.53 | 33.84 | 34.67 | 34.55 | 35.76 | 36.27 | 36.93 | 37.96 | 38.40 | 38.33 | 38.30 | 38.94 | 40.00 | 40.59 | 41.16 |
| Nuclear | 6.48 | 6.41 | 6.69 | 7.08 | 7.09 | 6.60 | 7.07 | 7.61 | 7.86 | 8.03 | 8.14 | 7.97 | 8.23 | 8.20 | 8.27 |
| Other..... | 5.68 | 5.63 | 5.47 | 6.18 | 5.53 | 7.13 | 5.87 | 4.63 | 4.99 | 7.91 | 3.82 | 4.70 | 4.81 | 5.24 | 5.36 |
| Total..... | 84.52 | 85.87 | 87.58 | 89.25 | 91.22 | 94.22 | 94.73 | 95.15 | 96.77 | 98.94 | 96.32 | 97.35 | 98.93 | 100.91 | 103.05 |

^aBalancing item. Includes stock changes, losses, gains, miscellaneous blending components, and unaccounted-for supply.

Sources: Historical data: *Annual Energy Review*, DOE/EIA-0384; projections generated by simulation of the Short-Term Integrated Forecasting System.

Table A4. Annual Average U.S. Energy Prices: Base Case
(Nominal Dollars)

| | Year | | | | | | | | | | | | | | |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Crude Oil Prices (dollars per barrel) | | | | | | | | | | | | | | | |
| Imported Average ^a | 18.20 | 16.13 | 15.53 | 17.14 | 20.62 | 18.49 | 12.07 | 17.26 | 27.72 | 22.00 | 23.71 | 27.74 | <i>36.00</i> | <i>47.06</i> | <i>48.27</i> |
| WTI ^b Spot Average..... | 20.54 | 18.49 | 17.16 | 18.41 | 22.11 | 20.61 | 14.45 | 19.25 | 30.29 | 25.95 | 26.12 | 31.12 | <i>41.44</i> | <i>54.74</i> | <i>54.83</i> |
| Natural Gas (dollars per thousand cubic feet) | | | | | | | | | | | | | | | |
| Average Wellhead..... | 1.74 | 2.04 | 1.85 | 1.55 | 2.17 | 2.32 | 1.96 | 2.19 | 3.70 | 4.01 | 2.95 | 4.89 | <i>5.49</i> | <i>6.27</i> | <i>6.36</i> |
| Henry Hub Spot | 1.83 | 2.19 | 1.97 | 1.74 | 2.84 | 2.57 | 2.15 | 2.34 | 4.45 | 4.09 | 3.47 | 5.64 | <i>6.05</i> | <i>6.95</i> | <i>6.90</i> |
| Petroleum Products | | | | | | | | | | | | | | | |
| Gasoline Retail ^c (dollars per gallon) | | | | | | | | | | | | | | | |
| All Grades | 1.14 | 1.13 | 1.13 | 1.16 | 1.25 | 1.24 | 1.07 | 1.18 | 1.53 | 1.47 | 1.39 | 1.60 | <i>1.89</i> | <i>2.21</i> | <i>2.25</i> |
| Regular Unleaded..... | 1.09 | 1.07 | 1.08 | 1.11 | 1.20 | 1.20 | 1.03 | 1.14 | 1.49 | 1.43 | 1.34 | 1.56 | <i>1.85</i> | <i>2.17</i> | <i>2.21</i> |
| No. 2 Diesel Oil, Retail (dollars per gallon) | 1.11 | 1.11 | 1.11 | 1.11 | 1.24 | 1.19 | 1.04 | 1.12 | 1.49 | 1.40 | 1.32 | 1.50 | <i>1.81</i> | <i>2.21</i> | <i>2.23</i> |
| No. 2 Heating Oil, Wholesale (dollars per gallon) | 0.58 | 0.54 | 0.51 | 0.51 | 0.64 | 0.59 | 0.42 | 0.49 | 0.89 | 0.76 | 0.69 | 0.88 | <i>1.13</i> | <i>1.48</i> | <i>1.52</i> |
| No. 2 Heating Oil, Retail (dollars per gallon) | 0.93 | 0.90 | 0.87 | 0.86 | 0.97 | 0.96 | 0.83 | 0.87 | 1.28 | 1.22 | 1.11 | 1.32 | <i>1.54</i> | <i>1.90</i> | <i>1.98</i> |
| No. 6 Residual Fuel Oil, Retail ^d (dollars per barrel)..... | 14.21 | 14.00 | 14.79 | 16.49 | 19.01 | 17.82 | 12.83 | 16.02 | 25.34 | 22.24 | 23.81 | 29.41 | <i>31.08</i> | <i>36.39</i> | <i>39.49</i> |
| Electric Power Sector (dollars per million Btu) | | | | | | | | | | | | | | | |
| Coal..... | 1.41 | 1.38 | 1.36 | 1.32 | 1.29 | 1.27 | 1.25 | 1.22 | 1.20 | 1.23 | 1.25 | 1.27 | <i>1.35</i> | <i>1.41</i> | <i>1.41</i> |
| Heavy Fuel Oil ^e | 2.46 | 2.36 | 2.40 | 2.60 | 3.01 | 2.79 | 2.07 | 2.38 | 4.27 | 3.73 | 3.67 | 4.77 | <i>4.86</i> | <i>5.62</i> | <i>6.34</i> |
| Natural Gas..... | 2.33 | 2.56 | 2.23 | 1.98 | 2.64 | 2.76 | 2.38 | 2.57 | 4.34 | 4.44 | 3.55 | 5.37 | <i>5.94</i> | <i>6.79</i> | <i>6.74</i> |
| Other Residential | | | | | | | | | | | | | | | |
| Natural Gas (dollars per thousand cubic feet)..... | 5.89 | 6.17 | 6.41 | 6.06 | 6.35 | 6.95 | 6.83 | 6.69 | 7.77 | 9.63 | 7.90 | 9.51 | <i>10.73</i> | <i>11.45</i> | <i>12.08</i> |
| Electricity (cents per kilowatthour)..... | 8.23 | 8.34 | 8.40 | 8.40 | 8.36 | 8.43 | 8.26 | 8.16 | 8.24 | 8.62 | 8.45 | 8.70 | <i>8.92</i> | <i>9.24</i> | <i>9.57</i> |

^aRefiner acquisition cost (RAC) of imported crude oil.

^bWest Texas Intermediate.

^cAverage self-service cash prices.

^dAverage for all sulfur contents.

^eIncludes 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. 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: EIA; 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: Base Case
(Million Barrels per Day, Except Closing Stocks)

| | Year | | | | | | | | | | | | | | |
|--------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Supply | | | | | | | | | | | | | | | |
| Crude Oil Supply | | | | | | | | | | | | | | | |
| Domestic Production ^a | 7.17 | 6.85 | 6.66 | 6.56 | 6.46 | 6.45 | 6.25 | 5.88 | 5.82 | 5.80 | 5.75 | 5.68 | 5.43 | 5.53 | 5.83 |
| Alaska | 1.71 | 1.58 | 1.56 | 1.48 | 1.39 | 1.30 | 1.17 | 1.05 | 0.97 | 0.96 | 0.98 | 0.97 | 0.91 | 0.90 | 0.88 |
| Lower 48 | 5.46 | 5.26 | 5.10 | 5.08 | 5.07 | 5.16 | 5.08 | 4.83 | 4.85 | 4.84 | 4.76 | 4.71 | 4.52 | 4.63 | 4.95 |
| Net Commercial Imports ^b | 5.98 | 6.67 | 6.95 | 7.14 | 7.40 | 8.12 | 8.60 | 8.60 | 9.01 | 9.30 | 9.12 | 9.65 | 10.01 | 10.12 | 10.01 |
| Net SPR Withdrawals | 0.01 | -0.02 | 0.00 | 0.00 | 0.07 | 0.01 | -0.02 | 0.02 | 0.08 | -0.02 | -0.12 | -0.11 | -0.10 | -0.07 | 0.00 |
| Net Commercial Withdrawals | 0.00 | -0.05 | -0.01 | 0.09 | 0.05 | -0.06 | -0.05 | 0.11 | 0.00 | -0.07 | 0.09 | 0.02 | -0.05 | 0.01 | 0.00 |
| Product Supplied and Losses | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Unaccounted-for Crude Oil | 0.26 | 0.17 | 0.27 | 0.19 | 0.22 | 0.14 | 0.11 | 0.19 | 0.15 | 0.12 | 0.11 | 0.05 | 0.19 | 0.11 | 0.08 |
| Total Crude Oil Supply | 13.41 | 13.61 | 13.87 | 13.97 | 14.19 | 14.66 | 14.89 | 14.80 | 15.07 | 15.13 | 14.95 | 15.30 | 15.48 | 15.70 | 15.92 |
| Other Supply | | | | | | | | | | | | | | | |
| NGL Production | 1.70 | 1.74 | 1.73 | 1.76 | 1.83 | 1.82 | 1.76 | 1.85 | 1.91 | 1.87 | 1.88 | 1.72 | 1.81 | 1.81 | 1.86 |
| Other Hydrocarbon and Alcohol Inputs | 0.20 | 0.25 | 0.26 | 0.30 | 0.31 | 0.34 | 0.38 | 0.38 | 0.38 | 0.38 | 0.42 | 0.42 | 0.42 | 0.43 | 0.43 |
| Crude Oil Product Supplied | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Processing Gain | 0.77 | 0.77 | 0.77 | 0.77 | 0.84 | 0.85 | 0.89 | 0.89 | 0.95 | 0.90 | 0.96 | 0.97 | 1.02 | 0.99 | 0.99 |
| Net Product Imports ^c | 0.94 | 0.93 | 1.09 | 0.75 | 1.10 | 1.04 | 1.17 | 1.30 | 1.40 | 1.59 | 1.42 | 1.59 | 1.84 | 1.91 | 1.98 |
| Product Stock Withdrawn | -0.02 | -2.86 | 0.00 | 0.15 | 0.03 | -0.09 | -0.17 | 0.30 | 0.00 | -0.23 | 0.14 | 0.03 | -0.06 | 0.02 | 0.00 |
| Total Supply | 17.02 | 14.45 | 17.72 | 17.72 | 18.31 | 18.62 | 18.92 | 19.52 | 19.70 | 19.65 | 19.76 | 20.03 | 20.52 | 20.87 | 21.19 |
| Demand | | | | | | | | | | | | | | | |
| Motor Gasoline ^d | 7.38 | 7.48 | 7.60 | 7.79 | 7.89 | 8.02 | 8.25 | 8.43 | 8.47 | 8.61 | 8.85 | 8.93 | 9.06 | 9.21 | 9.36 |
| Jet Fuel | 1.45 | 1.47 | 1.53 | 1.51 | 1.58 | 1.60 | 1.62 | 1.67 | 1.73 | 1.66 | 1.61 | 1.58 | 1.62 | 1.69 | 1.72 |
| Distillate Fuel Oil | 2.98 | 3.04 | 3.16 | 3.21 | 3.37 | 3.44 | 3.46 | 3.57 | 3.72 | 3.85 | 3.78 | 3.93 | 4.06 | 4.12 | 4.21 |
| Residual Fuel Oil | 1.09 | 1.08 | 1.02 | 0.85 | 0.85 | 0.80 | 0.89 | 0.83 | 0.91 | 0.81 | 0.70 | 0.77 | 0.80 | 0.86 | 0.82 |
| Other Oils ^e | 4.20 | 4.17 | 4.41 | 4.36 | 4.63 | 4.77 | 4.69 | 5.01 | 4.87 | 4.73 | 4.82 | 4.82 | 4.98 | 4.98 | 5.07 |
| Total Demand | 17.10 | 17.24 | 17.72 | 17.72 | 18.31 | 18.62 | 18.92 | 19.52 | 19.70 | 19.65 | 19.76 | 20.03 | 20.52 | 20.86 | 21.18 |
| Total Petroleum Net Imports | 6.94 | 7.62 | 8.05 | 7.89 | 8.50 | 9.16 | 9.76 | 9.91 | 10.42 | 10.90 | 10.54 | 11.24 | 11.85 | 12.03 | 11.99 |
| Closing Stocks (million barrels) | | | | | | | | | | | | | | | |
| Crude Oil (excluding SPR) | 318 | 335 | 337 | 303 | 284 | 305 | 324 | 284 | 286 | 312 | 278 | 269 | 286 | 282 | 281 |
| Total Motor Gasoline | 216 | 226 | 215 | 202 | 195 | 210 | 216 | 193 | 196 | 210 | 209 | 207 | 215 | 208 | 208 |
| Jet Fuel | 43 | 40 | 47 | 40 | 40 | 44 | 45 | 41 | 45 | 42 | 39 | 39 | 40 | 40 | 40 |
| Distillate Fuel Oil | 141 | 141 | 145 | 130 | 127 | 138 | 156 | 125 | 118 | 145 | 134 | 137 | 126 | 128 | 131 |
| Residual Fuel Oil | 43 | 44 | 42 | 37 | 46 | 40 | 45 | 36 | 36 | 41 | 31 | 38 | 42 | 37 | 37 |
| Other Oils ^f | -761 | 273 | 275 | 258 | 250 | 259 | 291 | 246 | 247 | 287 | 258 | 241 | 259 | 261 | 259 |

^aIncludes lease condensate.

^bNet imports equals gross imports plus SPR imports minus exports.

^cIncludes finished petroleum products, unfinished oils, gasoline blending components, and natural gas plant liquids for processing.

^dFor 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 EIA, *Short-Term Energy Outlook*, EIA/DOE-0202(93/3Q), for details on this adjustment.

^eIncludes 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.

^fIncludes 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, with the following exception: recent petroleum demand and supply data displayed here reflect the incorporation of resubmissions of the data as reported in EIA's *Petroleum Supply Monthly*, TableC1. 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: EIA: 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: Base Case
(Trillion Cubic Feet)

| | Year | | | | | | | | | | | | | | |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Supply | | | | | | | | | | | | | | | |
| Total Dry Gas Production | 17.84 | 18.10 | 18.82 | 18.60 | 18.78 | 18.83 | 19.02 | 18.83 | 19.18 | 19.62 | 18.96 | 19.07 | <i>18.78</i> | <i>18.91</i> | <i>19.09</i> |
| Gross Imports | 2.14 | 2.35 | 2.62 | 2.84 | 2.94 | 2.99 | 3.15 | 3.59 | 3.78 | 3.98 | 4.02 | 4.00 | <i>4.21</i> | <i>4.24</i> | <i>4.64</i> |
| Gross Exports | 0.22 | 0.14 | 0.16 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.24 | 0.37 | 0.52 | 0.69 | <i>0.76</i> | <i>0.67</i> | <i>0.67</i> |
| Net Imports | 1.92 | 2.21 | 2.46 | 2.69 | 2.78 | 2.84 | 2.99 | 3.42 | 3.54 | 3.60 | 3.50 | 3.30 | <i>3.45</i> | <i>3.57</i> | <i>3.97</i> |
| Supplemental Gaseous Fuels..... | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.07 | 0.06 | <i>0.05</i> | <i>0.06</i> | <i>0.07</i> |
| Total New Supply..... | 19.88 | 20.42 | 21.39 | 21.40 | 21.68 | 21.74 | 22.10 | 22.34 | 22.81 | 23.30 | 22.53 | 22.44 | <i>22.28</i> | <i>22.54</i> | <i>23.12</i> |
| Working Gas in Storage | | | | | | | | | | | | | | | |
| Opening | 3.07 | 2.60 | 2.32 | 2.61 | 2.15 | 2.17 | 2.17 | 2.73 | 2.52 | 1.72 | 2.90 | 2.38 | <i>2.56</i> | <i>2.70</i> | <i>2.58</i> |
| Closing | 2.60 | 2.32 | 2.61 | 2.15 | 2.17 | 2.17 | 2.73 | 2.52 | 1.72 | 2.90 | 2.38 | 2.56 | <i>2.70</i> | <i>2.58</i> | <i>2.48</i> |
| Net Withdrawals..... | 0.47 | 0.28 | -0.28 | 0.45 | -0.02 | 0.00 | -0.56 | 0.21 | 0.80 | -1.19 | 0.53 | -0.19 | <i>-0.14</i> | <i>0.12</i> | <i>0.10</i> |
| Total Supply..... | 20.35 | 20.70 | 21.11 | 21.85 | 21.66 | 21.74 | 21.54 | 22.54 | 23.61 | 22.12 | 23.06 | 22.25 | <i>22.15</i> | <i>22.66</i> | <i>23.22</i> |
| Balancing Item ^a | -0.12 | 0.09 | 0.13 | 0.35 | 0.94 | 0.98 | 0.70 | -0.15 | -0.15 | 0.11 | -0.06 | -0.11 | <i>0.13</i> | <i>0.00</i> | <i>0.16</i> |
| Total Primary Supply | 20.23 | 20.79 | 21.24 | 22.20 | 22.60 | 22.72 | 22.24 | 22.39 | 23.47 | 22.23 | 23.00 | 22.14 | <i>22.28</i> | <i>22.66</i> | <i>23.39</i> |
| Demand | | | | | | | | | | | | | | | |
| Residential..... | 4.69 | 4.96 | 4.85 | 4.85 | 5.24 | 4.98 | 4.52 | 4.73 | 4.99 | 4.77 | 4.89 | 5.10 | <i>4.88</i> | <i>4.87</i> | <i>5.00</i> |
| Commercial..... | 2.80 | 2.86 | 2.90 | 3.03 | 3.16 | 3.21 | 3.00 | 3.04 | 3.22 | 3.02 | 3.10 | 3.14 | <i>3.00</i> | <i>3.08</i> | <i>3.14</i> |
| Industrial | 8.70 | 8.87 | 8.91 | 9.38 | 9.68 | 9.71 | 9.49 | 9.16 | 9.40 | 8.47 | 8.67 | 8.14 | <i>8.40</i> | <i>8.34</i> | <i>8.68</i> |
| Lease and Plant Fuel..... | 1.17 | 1.17 | 1.12 | 1.22 | 1.25 | 1.20 | 1.17 | 1.08 | 1.15 | 1.12 | 1.11 | 1.12 | <i>1.11</i> | <i>1.09</i> | <i>1.11</i> |
| Other Industrial | 7.53 | 7.70 | 7.79 | 8.16 | 8.44 | 8.51 | 8.32 | 8.08 | 8.25 | 7.35 | 7.56 | 7.02 | <i>7.30</i> | <i>7.26</i> | <i>7.57</i> |
| CHP ^b | 1.11 | 1.12 | 1.18 | 1.26 | 1.29 | 1.28 | 1.35 | 1.40 | 1.39 | 1.31 | 1.24 | 1.14 | <i>1.16</i> | <i>1.22</i> | <i>1.24</i> |
| Non-CHP | 6.42 | 6.58 | 6.61 | 6.90 | 7.15 | 7.23 | 6.97 | 6.68 | 6.87 | 6.04 | 6.32 | 5.87 | <i>6.13</i> | <i>6.04</i> | <i>6.33</i> |
| Transportation ^c | 0.59 | 0.63 | 0.69 | 0.70 | 0.72 | 0.76 | 0.64 | 0.66 | 0.66 | 0.64 | 0.68 | 0.65 | <i>0.66</i> | <i>0.65</i> | <i>0.67</i> |
| Electric Power ^d | 3.45 | 3.47 | 3.90 | 4.24 | 3.81 | 4.06 | 4.59 | 4.82 | 5.21 | 5.34 | 5.67 | 5.14 | <i>5.35</i> | <i>5.71</i> | <i>5.90</i> |
| Total Demand | 20.23 | 20.79 | 21.24 | 22.20 | 22.60 | 22.72 | 22.24 | 22.39 | 23.47 | 22.23 | 23.00 | 22.14 | <i>22.28</i> | <i>22.66</i> | <i>23.39</i> |

^aThe balancing item represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas demand.

^b Natural gas used for electricity generation and production of useful thermal output by combined heat and power (CHP) plants at industrial facilities. Includes a small amount of natural gas consumption at electricity-only plants in the industrial sector.

^cPipeline fuel use plus natural gas used as vehicle fuel.

^dNatural gas used for electricity generation and (a limited amount of) useful thermal output by electric utilities and independent power producers.

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

Table A7. Annual U.S. Coal Supply and Demand: Base Case
(Million Short Tons)

| | Year | | | | | | | | | | | | | | |
|--|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Supply | | | | | | | | | | | | | | | |
| Production..... | 997.5 | 945.4 | 1033.5 | 1033.0 | 1063.9 | 1089.9 | 1117.5 | 1100.4 | 1073.6 | 1127.7 | 1094.3 | 1071.8 | 1111.5 | 1125.7 | 1169.6 |
| Appalachia..... | 456.6 | 409.7 | 445.4 | 434.9 | 451.9 | 467.8 | 460.4 | 425.6 | 419.4 | 432.8 | 397.0 | 376.8 | 390.1 | 379.7 | 396.2 |
| Interior..... | 195.7 | 167.2 | 179.9 | 168.5 | 172.8 | 170.9 | 168.4 | 162.5 | 143.5 | 147.0 | 146.9 | 146.3 | 146.2 | 141.5 | 142.8 |
| Western..... | 345.3 | 368.5 | 408.3 | 429.6 | 439.1 | 451.3 | 488.8 | 512.3 | 510.7 | 547.9 | 550.4 | 548.7 | 575.2 | 604.5 | 630.7 |
| Primary Stock Levels ^a | | | | | | | | | | | | | | | |
| Opening..... | 29.0 | 34.0 | 25.3 | 33.2 | 34.4 | 28.6 | 34.0 | 36.5 | 39.5 | 31.9 | 35.9 | 43.3 | 38.3 | 34.4 | 34.6 |
| Closing..... | 34.0 | 25.3 | 33.2 | 34.4 | 28.6 | 34.0 | 36.5 | 39.5 | 31.9 | 35.9 | 43.3 | 38.3 | 34.4 | 34.6 | 35.1 |
| Net Withdrawals..... | -5.0 | 8.7 | -7.9 | -1.2 | 5.8 | -5.3 | -2.6 | -2.9 | 7.6 | -4.0 | -7.4 | 5.0 | 3.9 | -0.2 | -0.5 |
| Imports..... | 3.8 | 8.2 | 8.9 | 9.5 | 8.1 | 7.5 | 8.7 | 9.1 | 12.5 | 19.8 | 16.9 | 25.0 | 27.3 | 31.0 | 33.0 |
| Exports..... | 102.5 | 74.5 | 71.4 | 88.5 | 90.5 | 83.5 | 78.0 | 58.5 | 58.5 | 48.7 | 39.6 | 43.0 | 48.0 | 49.4 | 46.2 |
| Total Net Domestic Supply..... | 893.8 | 887.8 | 963.1 | 952.7 | 987.3 | 1008.5 | 1045.7 | 1048.1 | 1035.2 | 1094.8 | 1064.2 | 1058.8 | 1094.7 | 1107.0 | 1155.9 |
| Secondary Stock Levels ^b | | | | | | | | | | | | | | | |
| Opening..... | 0.0 | 166.8 | 123.1 | 139.6 | 138.0 | 126.0 | 108.8 | 131.6 | 149.1 | 108.5 | 146.0 | 148.9 | 127.2 | 112.9 | 117.2 |
| Closing..... | 166.8 | 123.1 | 139.6 | 138.0 | 126.0 | 108.8 | 131.6 | 149.1 | 108.5 | 146.0 | 148.9 | 127.2 | 112.9 | 117.2 | 123.3 |
| Net Withdrawals..... | -166.8 | 43.8 | -16.5 | 1.5 | 12.0 | 17.2 | -22.8 | -17.5 | 40.7 | -37.6 | -2.9 | 21.7 | 14.3 | -4.3 | -6.0 |
| Waste Coal Supplied to IPPs ^c | 6.0 | 6.4 | 7.9 | 8.5 | 8.8 | 8.1 | 9.0 | 9.6 | 10.1 | 10.6 | 11.1 | 11.6 | 12.5 | 15.1 | 15.1 |
| Total Supply..... | 733.0 | 937.9 | 954.5 | 962.7 | 1008.1 | 1033.9 | 1031.8 | 1040.2 | 1086.0 | 1067.9 | 1072.4 | 1092.0 | 1121.5 | 1117.8 | 1165.0 |
| Demand | | | | | | | | | | | | | | | |
| Coke Plants..... | 32.4 | 31.3 | 31.7 | 33.0 | 31.7 | 30.2 | 28.2 | 28.1 | 28.9 | 26.1 | 23.7 | 24.2 | 23.7 | 26.2 | 26.3 |
| Electric Power Sector ^d | 795.1 | 831.6 | 838.4 | 850.2 | 896.9 | 921.4 | 936.6 | 940.9 | 985.8 | 964.4 | 977.5 | 1005.1 | 1015.1 | 1038.3 | 1071.3 |
| Retail and General Industry..... | 80.2 | 81.1 | 81.2 | 78.9 | 77.7 | 78.0 | 72.3 | 69.6 | 69.3 | 69.6 | 65.2 | 65.5 | 65.5 | 69.2 | 67.4 |
| Residential and Commercial..... | 6.2 | 6.2 | 6.0 | 5.8 | 6.0 | 6.5 | 4.9 | 4.9 | 4.1 | 4.4 | 4.4 | 4.2 | 4.2 | 4.4 | 4.2 |
| Industrial..... | 74.0 | 74.9 | 75.2 | 73.1 | 71.7 | 71.5 | 67.4 | 64.7 | 65.2 | 65.3 | 60.7 | 61.3 | 61.2 | 64.8 | 63.2 |
| CHP ^e | 28.2 | 28.9 | 29.7 | 29.4 | 29.4 | 29.9 | 28.6 | 27.8 | 28.0 | 25.8 | 26.2 | 24.8 | 28.0 | 28.2 | 28.4 |
| Non-CHP..... | 45.8 | 46.0 | 45.5 | 43.7 | 42.3 | 41.7 | 38.9 | 37.0 | 37.2 | 39.5 | 34.5 | 36.4 | 33.2 | 36.5 | 34.8 |
| Total Demand ^f | 907.7 | 944.1 | 951.3 | 962.1 | 1006.3 | 1029.5 | 1037.1 | 1038.6 | 1084.1 | 1060.1 | 1066.4 | 1094.9 | 1104.3 | 1133.8 | 1165.0 |
| Discrepancy ^g | -174.7 | -6.1 | 3.2 | 0.6 | 1.7 | 4.3 | -5.3 | 1.6 | 1.9 | 7.7 | 6.1 | -2.8 | 17.2 | -16.0 | 0.0 |

^aPrimary stocks are held at the mines, preparation plants, and distribution points.

^bSecondary stocks are held by users. It includes an estimate of stocks held at utility plants sold to nonutility generators.

^cEstimated independent power producers (IPPs) consumption of waste coal. This item includes waste coal and coal slurry reprocessed into briquettes.

^dEstimates of coal consumption by IPPs, supplied by the Office of Coal, Nuclear, Electric, and Alternate Fuels, EIA.

^eCoal used for electricity generation and production of useful thermal output by combined heat and power (CHP) plants at industrial facilities. Includes a small amount of coal consumption at electricity-only plants in the industrial sector.

^fTotal Demand includes estimated IPP consumption.

^gThe discrepancy reflects an unaccounted-for shipper and receiver reporting difference, assumed to be zero in the forecast period. Prior to 1994, discrepancy may include some waste coal supplied to IPPs that has not been specifically identified.

Notes: Rows and columns may not add due to independent rounding. 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 or by EIA's office of Coal, Nuclear, Electric and Alternate Fuels (coal production).

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

Table A8. Annual U.S. Electricity Supply and Demand: Base Case
(Billion Kilowatt-hours)

| | Year | | | | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Net Electricity Generation | | | | | | | | | | | | | | | |
| Electric Power Sector ^a | | | | | | | | | | | | | | | |
| Coal..... | 1597.7 | 1665.5 | 1666.3 | 1686.1 | 1772.0 | 1820.8 | 1850.2 | 1858.6 | 1943.1 | 1882.8 | 1910.6 | 1952.7 | 1954.0 | 1985.3 | 2039.5 |
| Petroleum..... | 92.2 | 105.4 | 98.7 | 68.1 | 74.8 | 86.5 | 122.2 | 111.5 | 105.2 | 119.1 | 89.7 | 113.7 | 112.5 | 115.3 | 107.4 |
| Natural Gas..... | 334.3 | 342.2 | 385.7 | 419.2 | 378.8 | 399.6 | 449.3 | 473.0 | 518.0 | 554.9 | 607.7 | 567.3 | 618.6 | 668.2 | 696.6 |
| Nuclear..... | 618.8 | 610.3 | 640.4 | 673.4 | 674.7 | 628.6 | 673.7 | 728.3 | 753.9 | 768.8 | 780.1 | 763.7 | 788.5 | 785.1 | 792.1 |
| Hydroelectric..... | 245.8 | 273.5 | 250.6 | 302.7 | 338.1 | 346.6 | 313.4 | 308.6 | 265.8 | 204.9 | 251.7 | 260.6 | 256.6 | 285.1 | 296.3 |
| Other ^b | 45.5 | 47.0 | 47.0 | 44.8 | 45.8 | 47.3 | 48.6 | 50.0 | 51.6 | 49.4 | 58.6 | 63.1 | 63.5 | 65.9 | 68.8 |
| Subtotal..... | 2934.4 | 3043.9 | 3088.7 | 3194.2 | 3284.1 | 3329.4 | 3457.4 | 3530.0 | 3637.5 | 3580.1 | 3698.5 | 3721.2 | 3793.6 | 3904.9 | 4000.7 |
| Other Sectors ^c | 149.5 | 153.3 | 158.8 | 159.3 | 160.0 | 162.8 | 162.9 | 164.8 | 164.6 | 156.6 | 160.0 | 162.0 | 159.8 | 164.4 | 164.8 |
| Total..... | 3083.9 | 3197.2 | 3247.5 | 3353.5 | 3444.2 | 3492.2 | 3620.3 | 3694.8 | 3802.1 | 3736.6 | 3858.5 | 3883.2 | 3953.4 | 4069.3 | 4165.5 |
| Net Imports..... | 25.4 | 27.8 | 44.8 | 39.2 | 40.2 | 34.1 | 25.9 | 29.0 | 33.8 | 22.0 | 22.8 | 6.4 | 11.3 | 12.2 | 3.6 |
| Total Supply..... | 3109.3 | 3225.0 | 3292.3 | 3392.7 | 3484.4 | 3526.2 | 3646.2 | 3723.8 | 3835.9 | 3758.7 | 3881.3 | 3889.6 | 3964.7 | 4081.4 | 4169.1 |
| Losses and Unaccounted for ^d | 223.7 | 236.0 | 223.7 | 235.4 | 237.4 | 232.2 | 221.0 | 229.2 | 233.0 | 216.1 | 242.1 | 222.5 | 237.8 | 244.8 | 249.7 |
| Demand | | | | | | | | | | | | | | | |
| Retail Sales ^e | | | | | | | | | | | | | | | |
| Residential..... | 935.9 | 994.8 | 1008.5 | 1042.5 | 1082.5 | 1075.9 | 1130.1 | 1144.9 | 1192.4 | 1202.6 | 1267.0 | 1273.5 | 1293.4 | 1331.4 | 1372.9 |
| Commercial ^f | 850.0 | 884.7 | 913.1 | 953.1 | 980.1 | 1026.6 | 1078.0 | 1103.8 | 1159.3 | 1197.4 | 1218.2 | 1199.7 | 1228.5 | 1270.8 | 1306.6 |
| Industrial..... | 972.7 | 977.2 | 1008.0 | 1012.7 | 1033.6 | 1038.2 | 1051.2 | 1058.2 | 1064.2 | 964.2 | 972.2 | 1008.0 | 1020.9 | 1041.1 | 1050.2 |
| Transportation ^g | 4.7 | 4.8 | 5.0 | 5.0 | 4.9 | 4.9 | 5.0 | 5.1 | 5.4 | 5.5 | 5.2 | 7.0 | 7.7 | 8.1 | 7.8 |
| Subtotal..... | 2763.4 | 2861.5 | 2934.6 | 3013.3 | 3101.1 | 3145.6 | 3264.2 | 3312.1 | 3421.4 | 3369.8 | 3462.5 | 3488.2 | 3550.5 | 3651.4 | 3737.5 |
| Other Use/Sales ^h | 122.3 | 127.5 | 134.1 | 144.1 | 145.9 | 148.4 | 160.9 | 182.5 | 181.5 | 172.8 | 176.6 | 178.9 | 176.4 | 185.3 | 181.9 |
| Total Demand..... | 2885.6 | 2989.0 | 3068.7 | 3157.3 | 3247.0 | 3294.0 | 3425.1 | 3494.6 | 3602.9 | 3542.6 | 3639.1 | 3667.1 | 3726.9 | 3836.7 | 3919.4 |

^aElectric Utilities and independent power producers.

^b"Other" includes generation from other gaseous fuels, geothermal, wind, wood, waste, and solar sources.

^cElectricity generation from combined heat and power facilities and electricity-only plants in the industrial and commercial sectors.

^dBalancing item, mainly transmission and distribution losses.

^eTotal of retail electricity sales by electric utilities and power marketers. Utility sales for historical periods are reported in EIA's *Electric Power Monthly* and *Electric Power Annual*. Power marketers' sales are reported annually in Appendix C of EIA's *Electric Sales and Revenue*. Quarterly data for power marketers (and thus retail sales totals) are imputed. Data for 2003 are estimated.

^fCommercial sector, including public street and highway lighting, interdepartmental sales and other sales to public authorities. These items, along with transportation sector; electricity were formerly included in an "other" category, which is no longer provided. (See EIA's *Monthly Energy Review*, Table 7.5, for a comparison of "Old Basis" and "New Basis" electricity retail sales.) Through 2003, data are estimated as the sum of "Old Basis Commercial" and approximately 95 percent of "Old Basis Other"; beginning in 2004, data are actual survey data.

^gTransportation sector, including sales to railroads and railways. Through 2003, data are estimated as approximately 5 percent of "Old Basis Other"; beginning in 2004, data are actual survey data.

^hDefined as the sum of facility use of onsite net electricity generation plus direct sales of power by industrial- or commercial-sector generators to third parties, reported annually in Table 7.5 of the *Monthly Energy Review* (MER). Data for 2003 are estimates.

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 and by EIA's office of Coal, Nuclear, Electric and Alternate Fuels (hydroelectric and nuclear).

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