

## Short-Term Energy Outlook

January 2005

### Winter Fuels Update (Figure 1)

Consumer prices for heating fuels are relatively unchanged since the December *Outlook*, leaving projections for [household heating fuel expenditures](#) about the same as previously projected, despite continued warm weather in the middle of the heating season. Heating oil expenditures by typical Northeastern households are expected to average 30 percent above last winter's levels, with residential fuel oil prices averaging \$1.82 per gallon for the October-to-March period. Expenditures for propane-heated households are expected to increase about 20 percent this winter. Expected increases in expenditures for natural gas-heated households have been raised slightly to 10 percent.

### Crude Oil and Petroleum Products (Figures 2 to 8)

The projected average [West Texas Intermediate \(WTI\)](#) crude oil price for the first quarter of 2005 is about \$43 per barrel, approximately \$8 per barrel higher than in the first quarter of 2004 but \$3 per barrel below the first quarter projection in the previous *Outlook*. WTI prices fell by \$10 per barrel on average during the past two months due to: the ongoing restoration of oil production in the Gulf of Mexico shut in due to Hurricane Ivan, unseasonably warm weather in the United States, and rising U.S. and OECD commercial oil inventories in general. This *Outlook* extends the projection period through 2006. EIA's initial assessment is that WTI prices are likely to remain in the \$42-\$43 per barrel range (on average) throughout 2005-2006.

[World petroleum demand growth](#) for 2005-2006 is projected to average about 2.1 million barrels per day, still strong growth but down from the 2.6 million barrels per day demand growth seen in 2004. Global economic growth is expected to settle at more sustainable rates over the next two years, tempered in part by high world oil prices. The lower global oil demand growth also reflects the fact that Chinese oil demand growth is expected to moderate from the very high rate seen in 2004, when a dramatic increase in demand for oil-generated power occurred. This source of demand is not expected to be nearly as important over the next two years.

Because oil demand growth is expected to remain strong in 2005-2006, [U.S. oil inventories](#) and [inventories in the other industrialized countries](#) are not expected to show much growth from end-2004 levels. However, the record levels of production by OPEC countries in recent months have finally resulted in inventory builds in the OECD countries. Commercial inventories in these countries, which had been relatively low compared to historical standards, rose above the middle of the observed 5-year historical range. In addition, OPEC (and world) production capacity rose by a half million barrels per day to 1.1-1.6 million barrels per day above current output levels, as Saudi Arabia de-mothballed capacity at several fields. However, even with this action, the global capacity utilization rate remains near 99 percent.

The [tsunami](#), which struck South Asia on December 26, while devastating and massive in scope, appears to have had minimal impact on oil markets or on energy markets generally.

Global oil demand growth is likely to be the key factor for oil markets in 2005. While most analysts expect global oil demand growth to be significantly less than the 2.6 million barrels per day seen in 2004, markets will remain tight if it is close to the 2.0 million barrels per day EIA expects in 2005, a level that exceeds expected growth in non-OPEC supply and downstream refinery capacity. However, if world oil demand grows by less than 1.5 million barrels per day in 2005, as some analysts are expecting, oil markets could loosen up and the likelihood that prices could ease in 2005 would increase.

[U.S. petroleum demand](#) in 2005 is projected to average 20.9 million barrels per day, up 2.0 percent from the 2004 level. An additional 1.9-percent growth is anticipated for 2006. Motor gasoline demand is projected to rise 1.9 percent in 2005 and 2.4 percent in 2006, in line with highway travel growth. Jet fuel demand, buoyed by continued recovery in both capacity and utilization, is projected to climb 2.6 percent in 2005 and 1.9 percent in 2006. Distillate fuel oil demand, which has grown by about 4 percent per year for the last 2 years, is expected to grow more slowly in 2005 and 2006 at 2.5 percent and 1.3 percent, respectively, as industrial growth slows.

On January 10, 2005, the U.S. [monthly average pump price](#) for regular gasoline was \$1.79 per gallon, down 5 cents per gallon from one month ago. Recently, gasoline prices have been falling in response to lower crude oil prices. Additionally, the drop in spot gasoline prices reflects robust [gasoline inventories](#), which are close to the upper end of their normal range for this time of year. Pump prices for regular gasoline are expected to average about \$1.82 per gallon during the first quarter of 2005, up about 16 cents from Q1 2004 but down about 12 cents from Q4 2004.

Continued growth in gasoline demand in the U.S. is expected to move average prices to about the mid-\$1.90's by spring, about the same as in 2004. The improvement in current and expected gasoline supplies has reduced the likelihood of significant increases in average gasoline prices in 2005 compared to 2004. However, for heating oil, prices in 2005 are still anticipated to average about 12 cents per gallon higher than their 2004 average level. Heating oil inventories are still at or below the normal range in most areas (including the East Coast where heating oil demand is concentrated). Despite warm weather so far this heating season, we are not yet ready to reduce price expectations for heating oil, to the same extent as price expectations for gasoline.

### **Natural Gas (Figures 9 to 10)**

The average [Henry Hub natural gas spot price](#) was \$6.32 per thousand cubic feet (mcf) in November and \$6.77 per mcf in December. However, the recent unusually mild winter weather in the Northeast reduced heating demand, which in turn, lowered spot prices for natural gas. Between December 20 and January 3, the price at the Henry Hub fell sharply from \$7.35 per mcf to \$5.70 per mcf.

[Working gas in storage](#) is estimated to have totaled 2,698 billion cubic feet at the end of December. This figure is 5 percent higher than one year ago and 12 percent higher than the five-year average. With the heating season now more than half over and ample storage, natural gas prices are likely to ease over the next several months. Henry Hub prices are expected to average \$5.77 per mcf in 2005. In 2006, prices are projected to average \$5.95 per mcf as the supply of natural gas is expected to tighten.

In response to continued economic growth, natural gas demand is projected to increase by 3.0 percent in 2005. Domestic natural gas production in 2005 is projected to increase by 1.7 percent from 2004 levels, partly due to high gas-directed drilling rates and partly due to continued recovery in the Gulf of Mexico from the effects of Hurricane Ivan. Steady increases in liquefied natural gas imports, restrained export growth, and carryover from the robust storage levels noted above are expected to contribute to moderate improvement in the supply picture in 2005.

### **Electricity and Coal Outlook (Figures 11 to 13)**

[Electricity demand](#) is expected to increase by 3.3 percent in 2005 and by an additional 2.1 percent in 2006, following estimated growth of 1.4 percent in 2004. [Coal demand](#) in the electric power sector is expected to show a solid gain of 2.9 percent in 2005 and another 2.6 percent in 2006. Power sector demand for coal

continues to increase even as oil and gas prices remain high. [U.S. coal production](#) is expected to grow by 2.9 percent in 2005 and by an additional 2.6 percent in 2006. Hydroelectric power availability, which now appears to have fallen slightly in 2004, is expected to rebound in 2005 by as much as 11 percent nationally, provided normal precipitation patterns prevail.

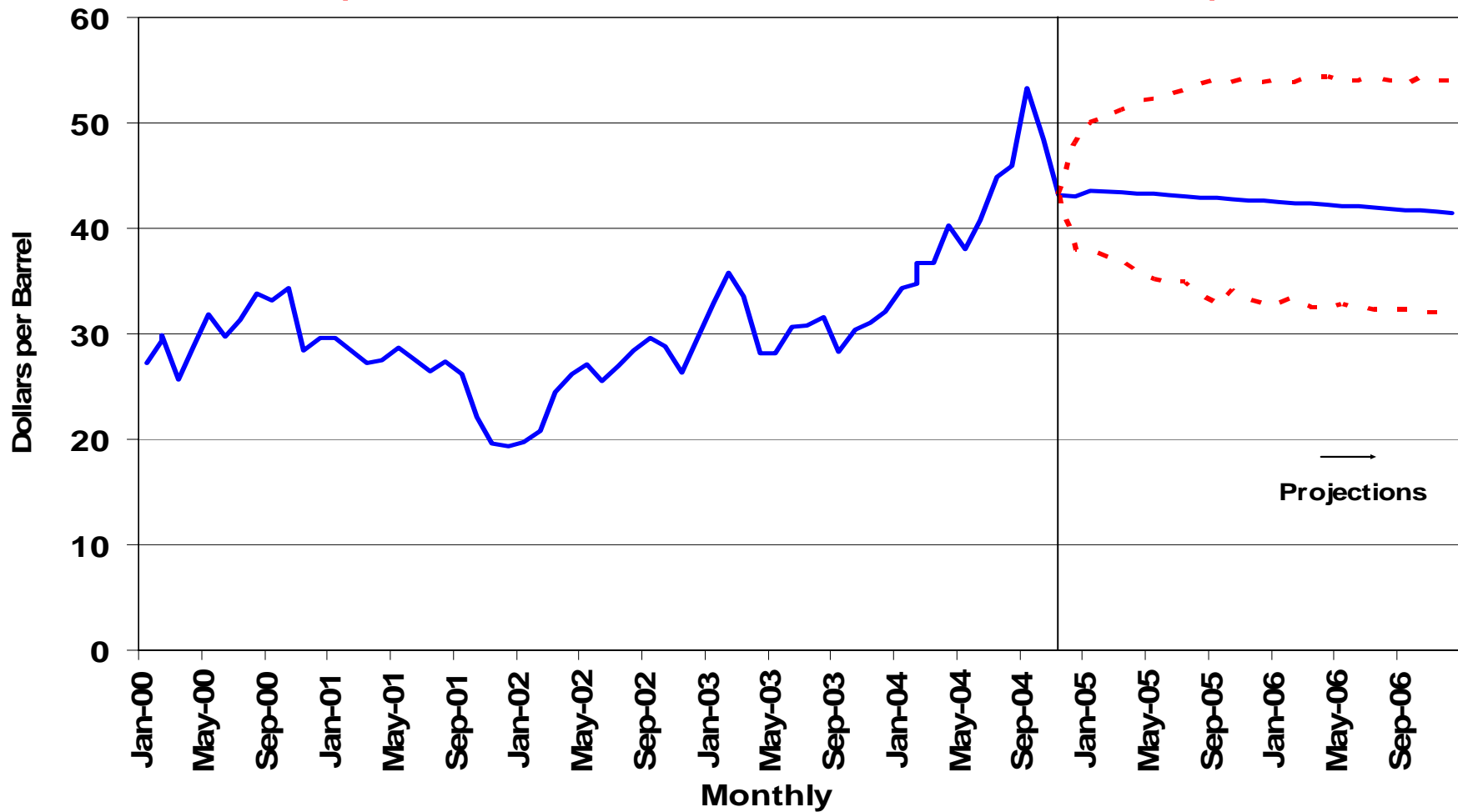
# Figure 1. Illustrative Residential Heating Fuel Bills

Selected Average Consumer Prices and Expenditures for Heating Fuels During the Winter						
	Average 1998-2000	Actual 2001-2002	Actual 2002-2003	Actual 2003-2004	Projections 2004-2005	% Change from 2003-2004
<b>Natural Gas (Midwest)</b>						
Consumption (mcf*)	88.8	81.3	94.9	89.1	88.7	-0.4
Avg. Price (\$/mcf)	7.61	7.41	8.40	9.77	10.76	10.2
Expenditures (\$)	676	602	797	870	954	9.7
<b>Heating Oil (Northeast)</b>						
Consumption (gallons)	673	577	743	700	680	-2.9
Avg. Price (\$/gallon)	1.12	1.10	1.34	1.36	1.82	33.7
Expenditures (\$)	754	637	995	953	1237	29.8
<b>Propane (Midwest)</b>						
Consumption (gallons)	877	803	940	882	878	-0.4
Avg. Price (\$/gallon)	1.10	1.11	1.20	1.30	1.56	20.1
Expenditures (\$)	965	888	1124	1147	1372	19.5

Consumption based on typical household use for regions noted. Prices are retail national averages.

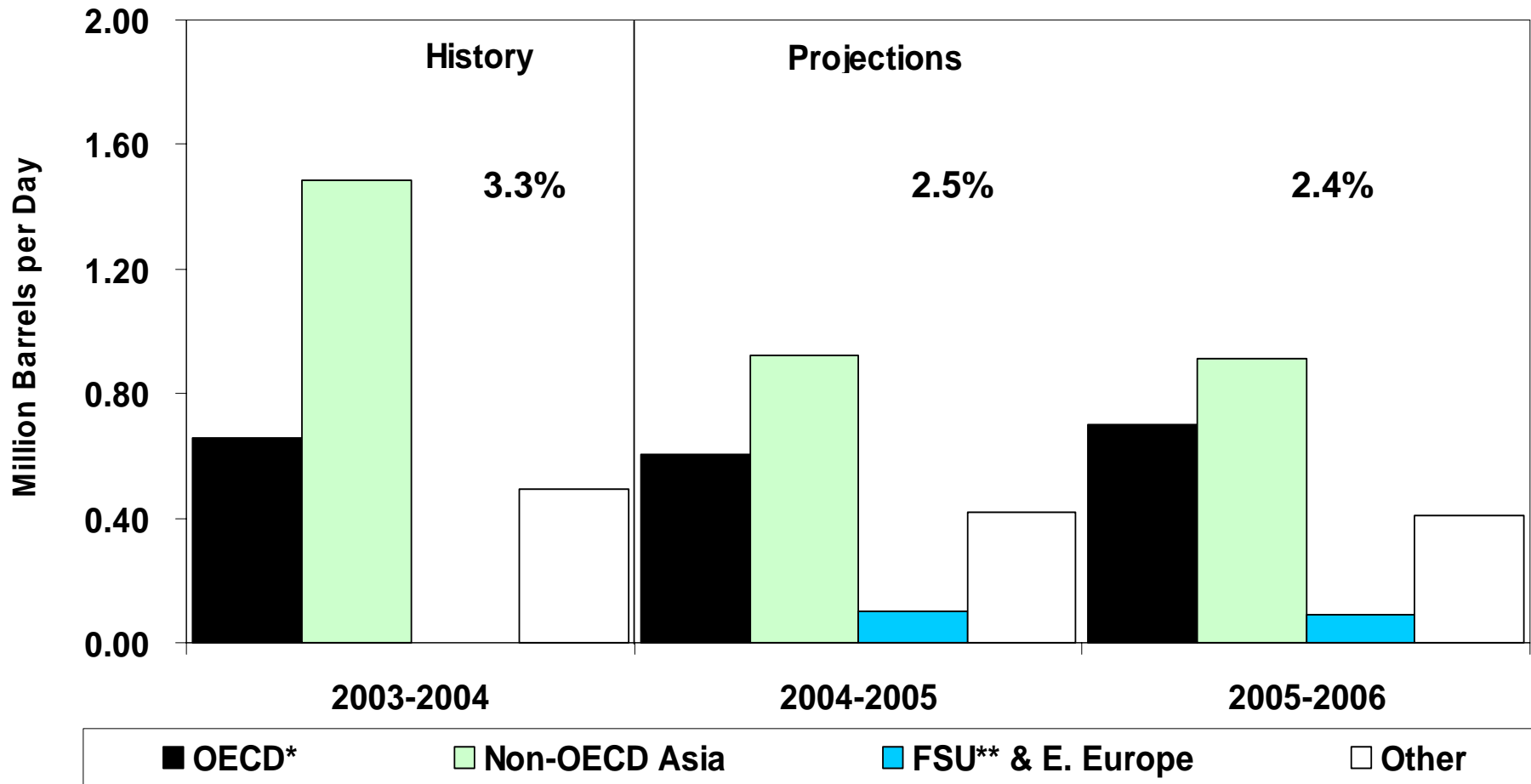
\*thousand cubic feet.

**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.

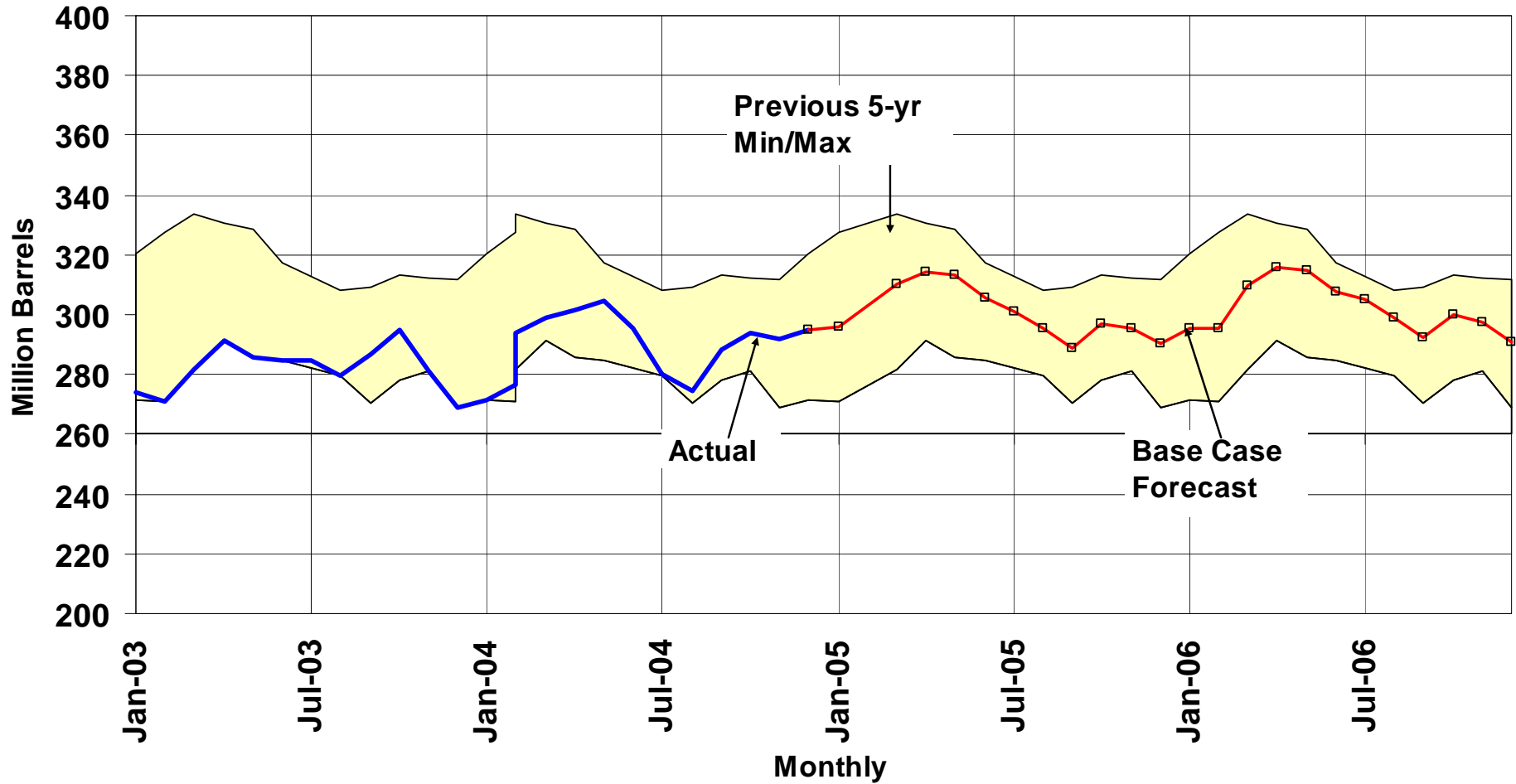
## Figure 3. World Oil Demand Growth (Change from Year Ago)



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

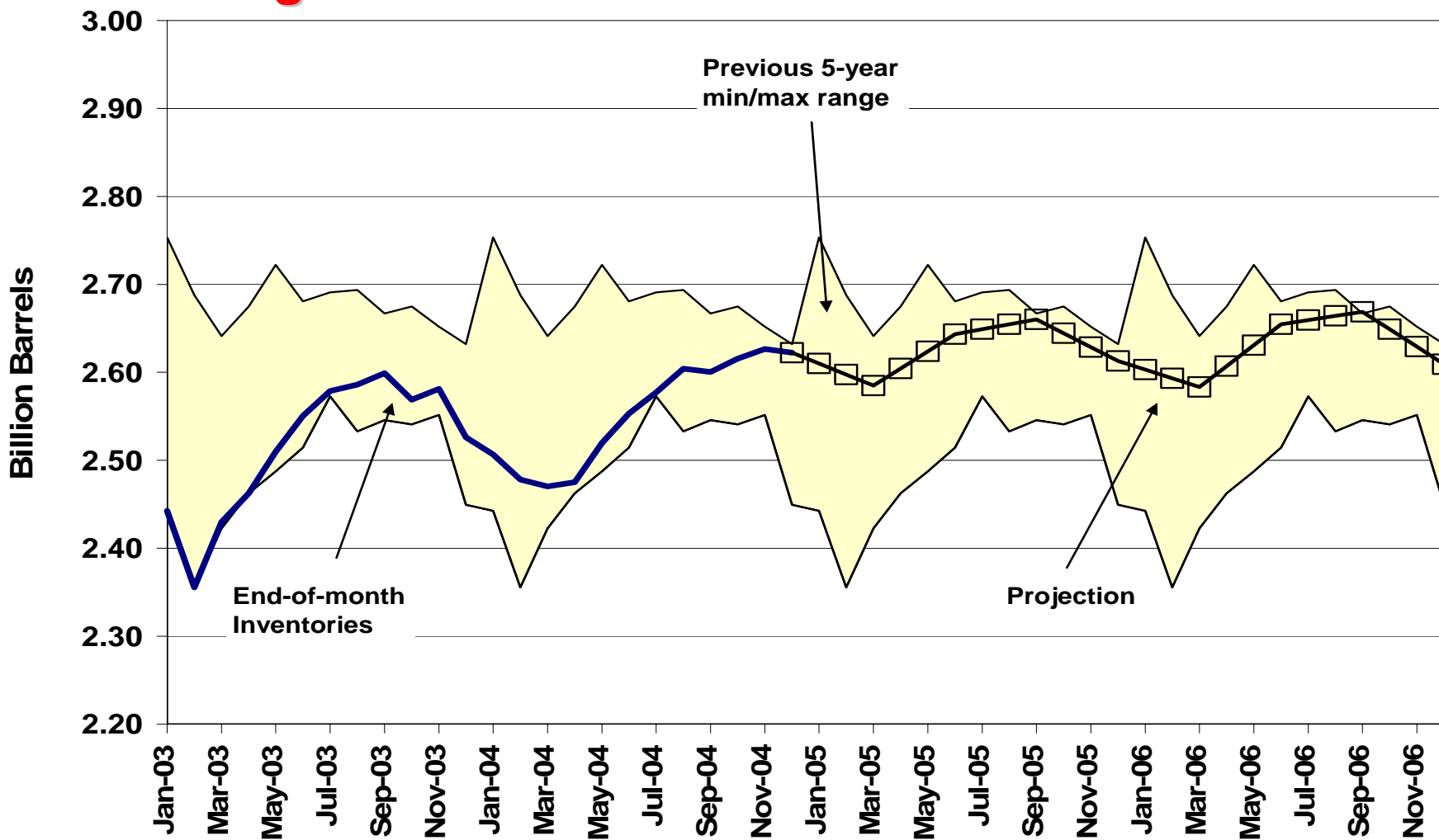
\*\* FSU = Former Soviet Union

# Figure 4. U.S. Crude Oil Stocks



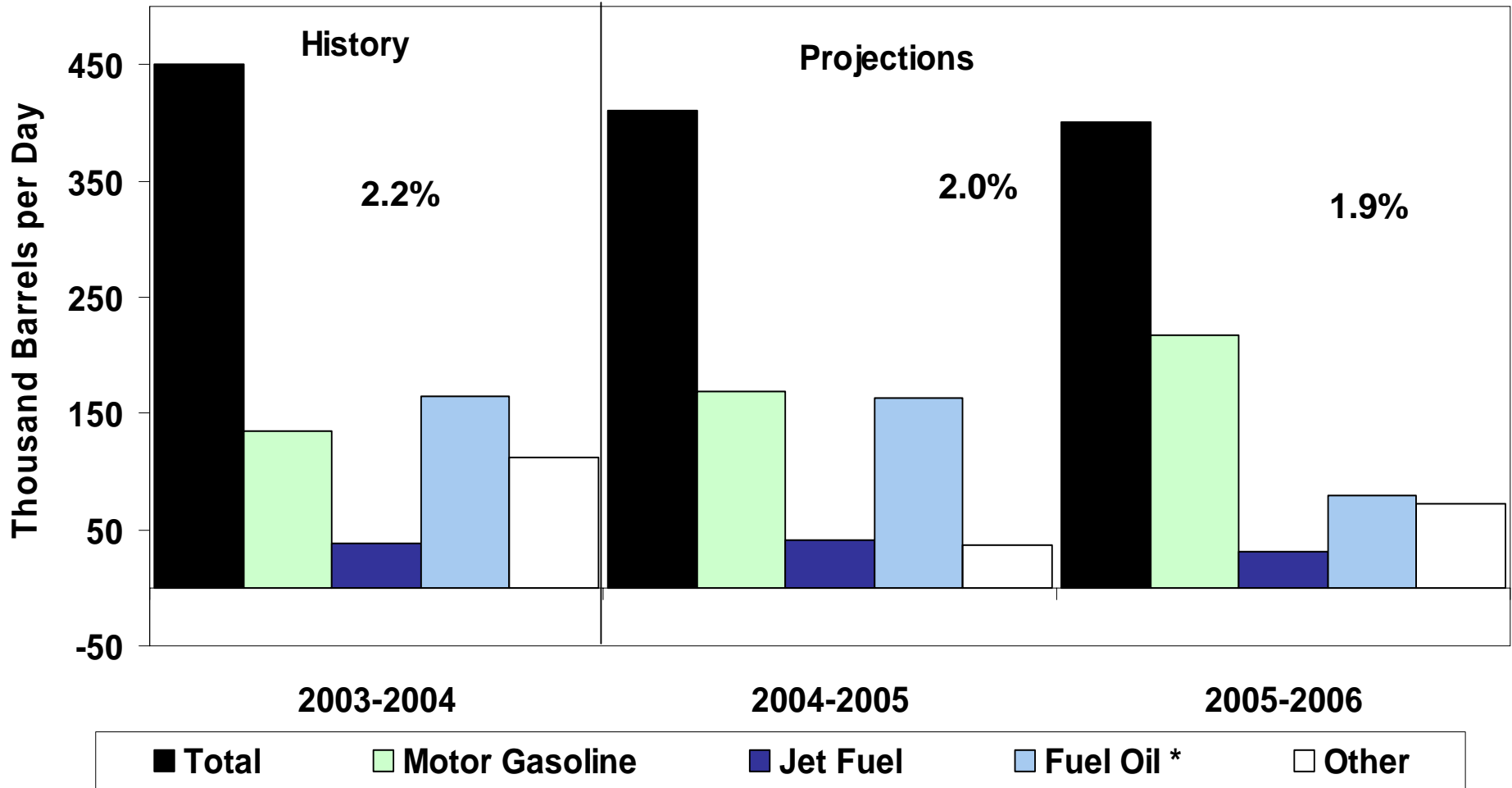


# Figure 5. OECD\* Commercial Oil Stocks



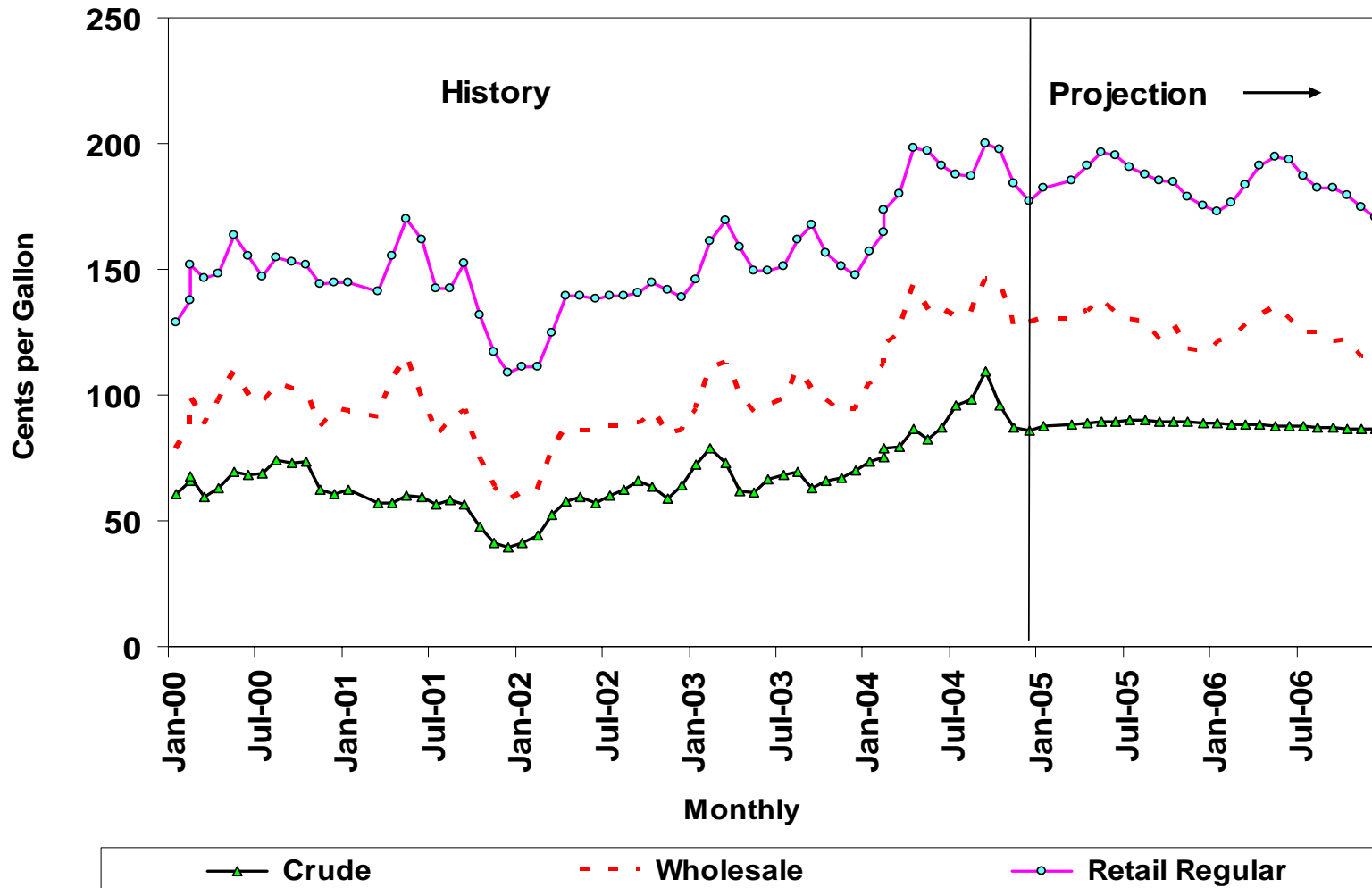
\*Organization for Economic Cooperation and Development  
Short-Term Energy Outlook, January 2005

**Figure 6. U.S. Petroleum Products Demand Growth  
(Change from Year Ago)**

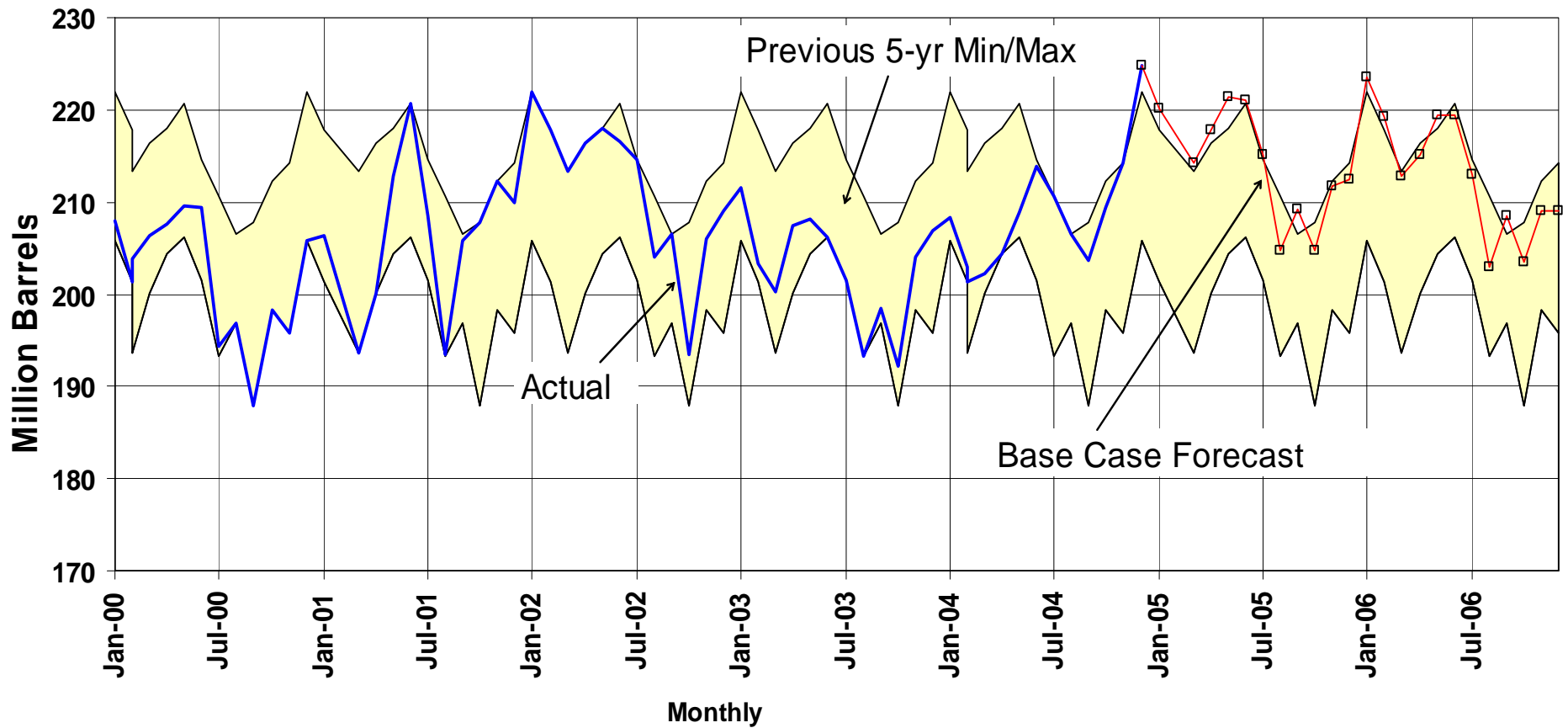


\* Sum of distillate and residual fuel.

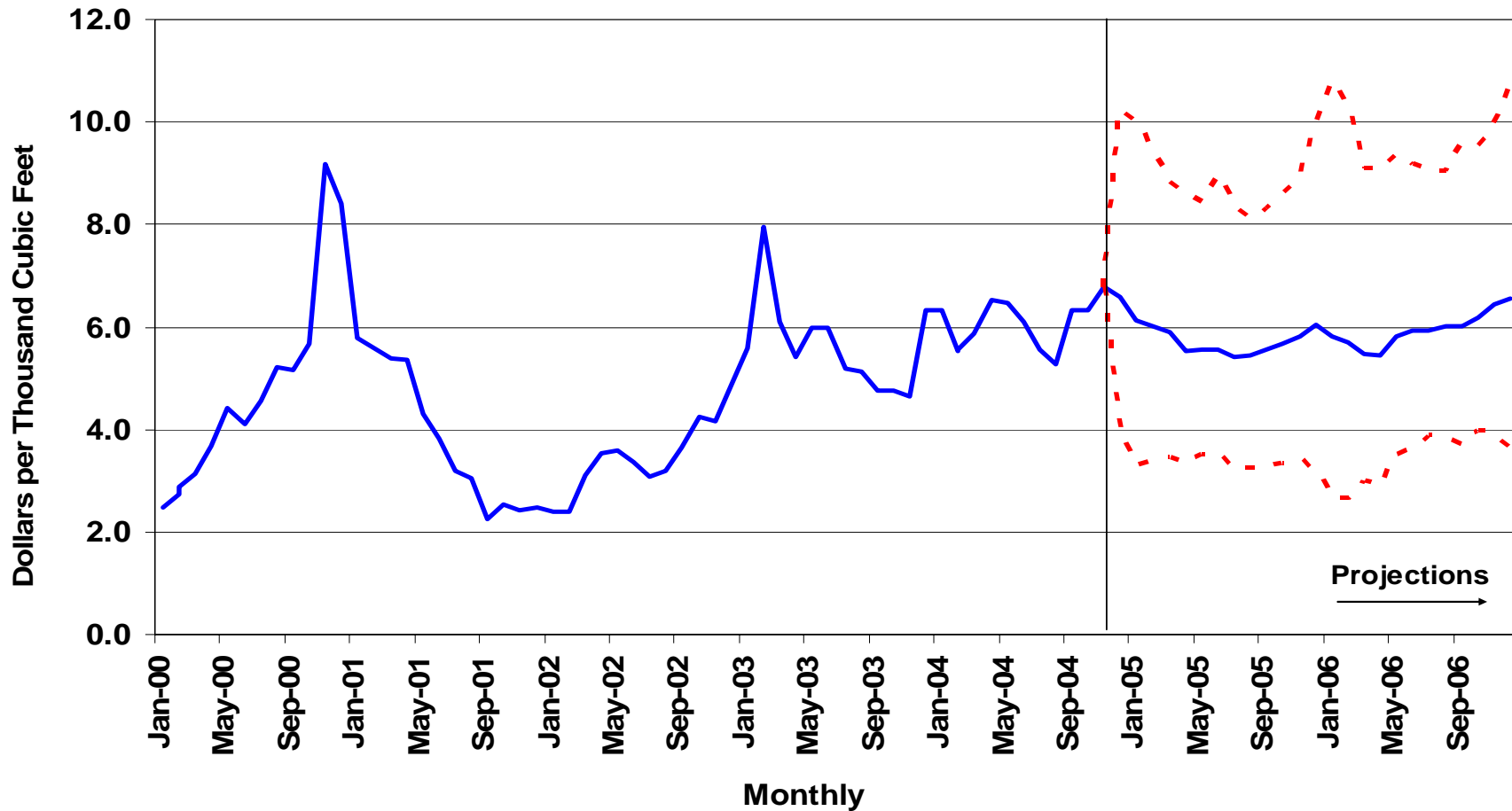
# Figure 7. Gasoline Prices and Crude Oil Costs



# Figure 8. U.S. Gasoline Inventories



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

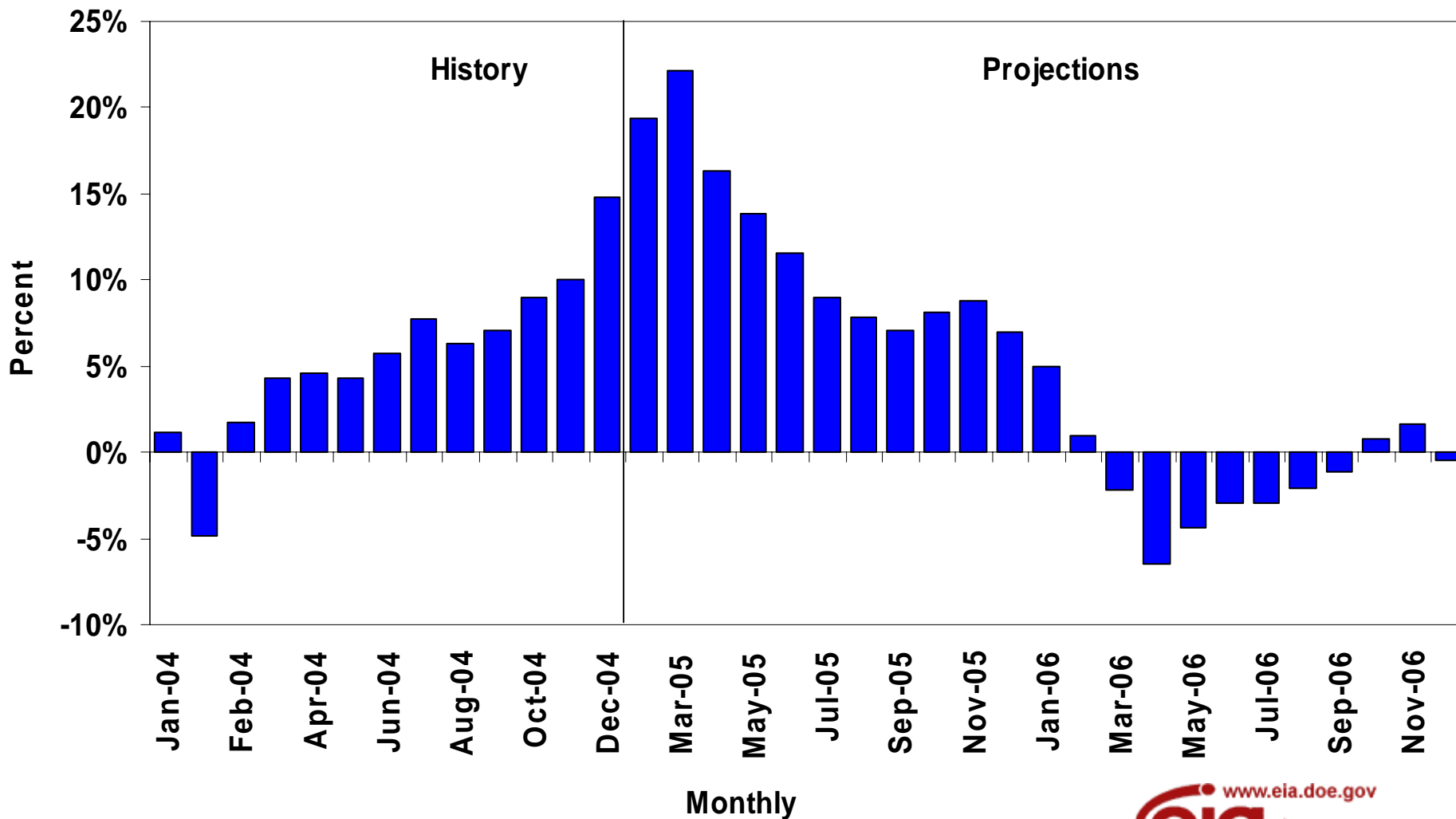


\*The confidence intervals show +/- 2 standard errors based on the properties of the model. The ranges do not include the effects of major supply disruptions.

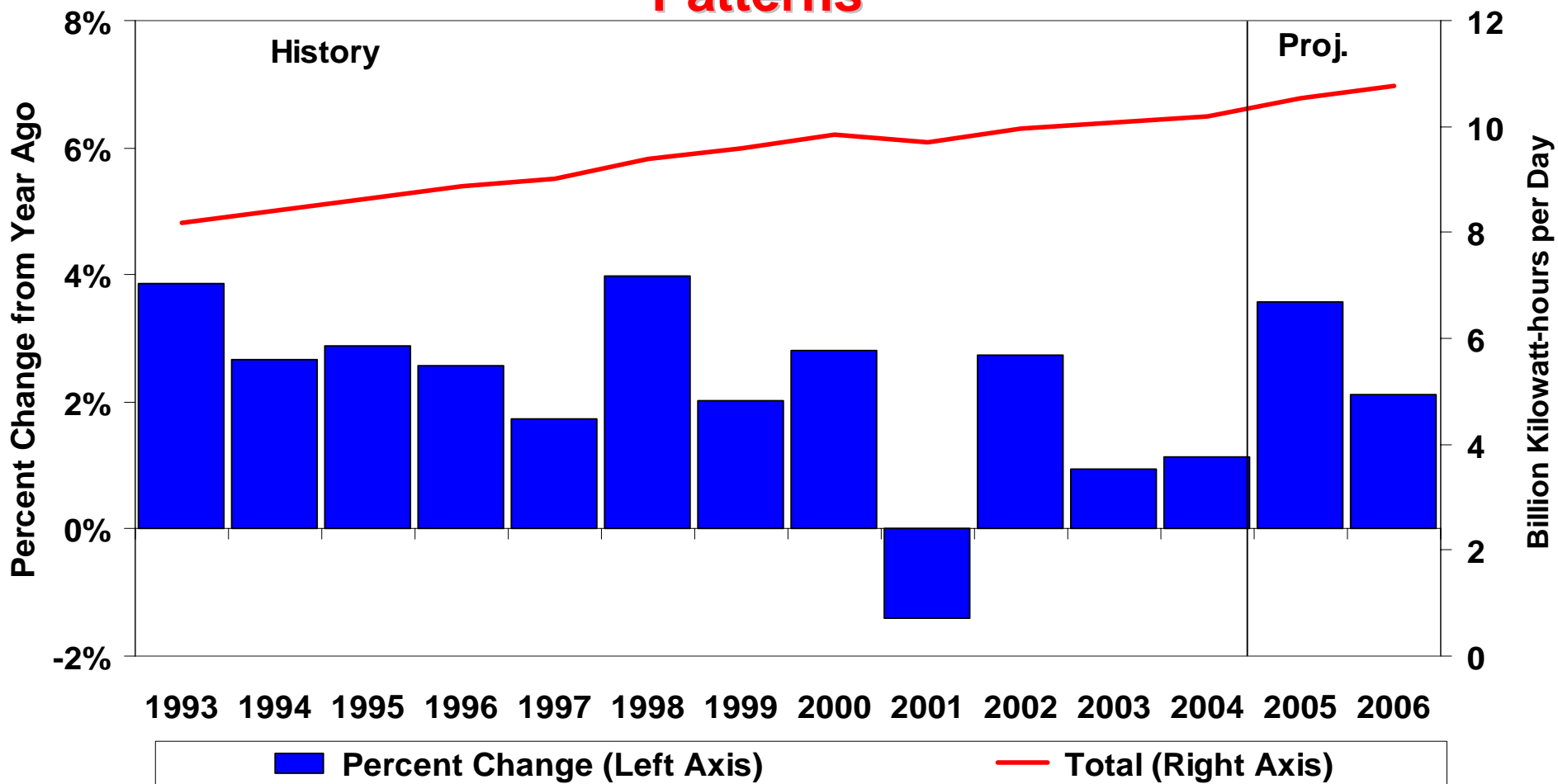
Sources: History: Natural Gas Week; Projections: Short-Term Energy Outlook, January 2005



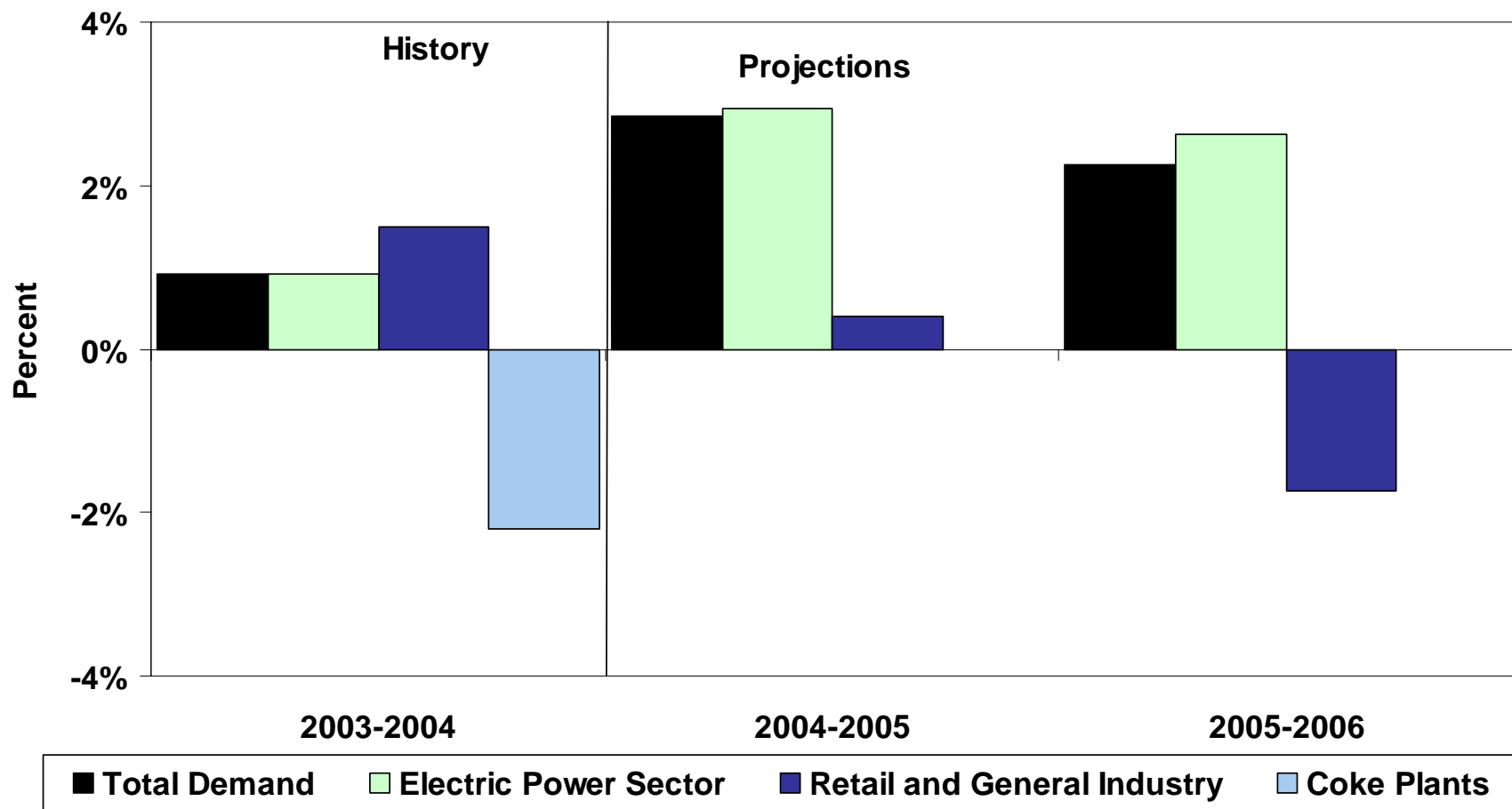
**Figure 10. U.S. Working Gas in Storage  
(Percent Difference from Previous 5-Year Average)**



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

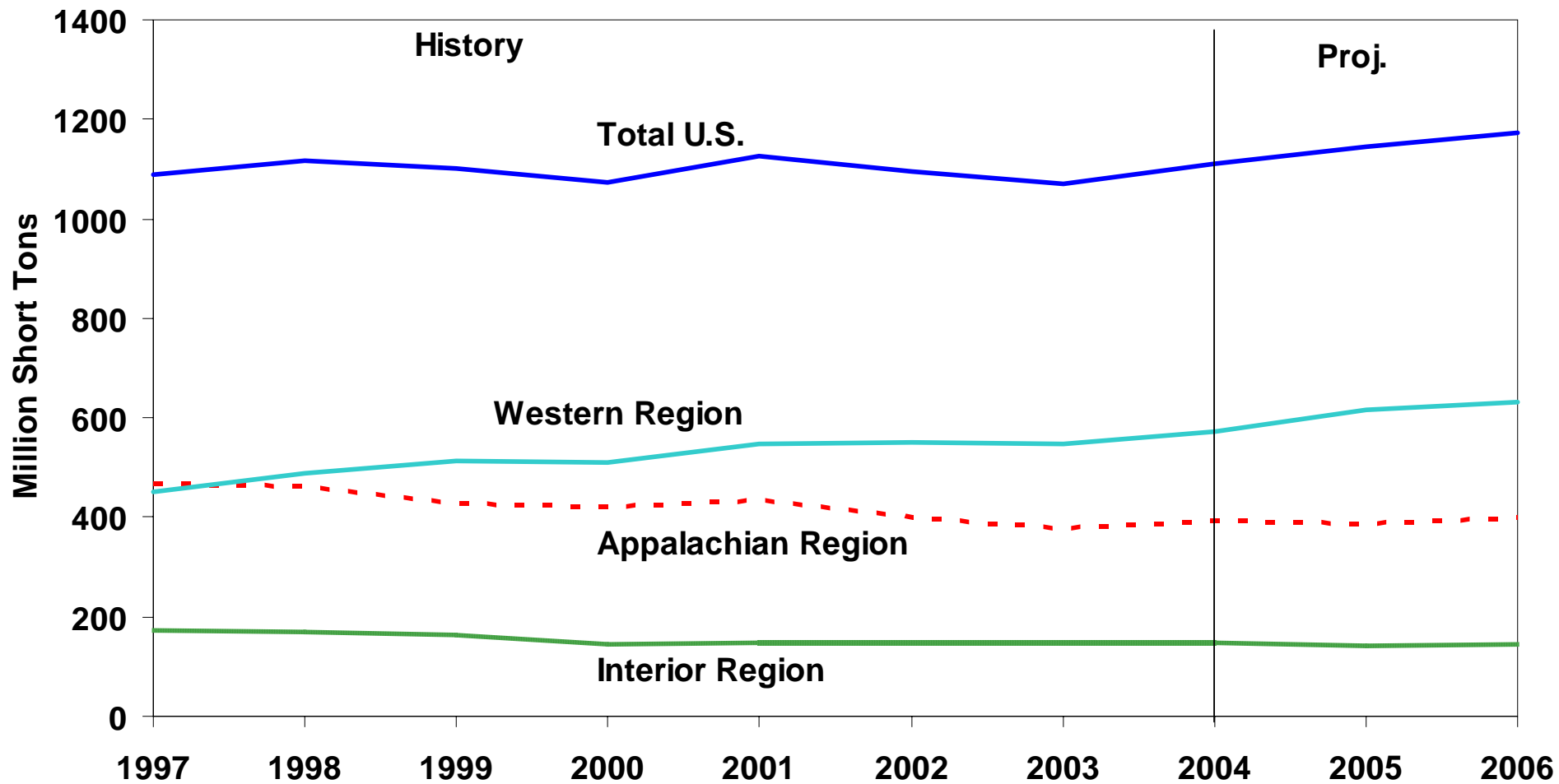


## Figure 12. U.S. Coal Demand (Percent Change from Year Ago)



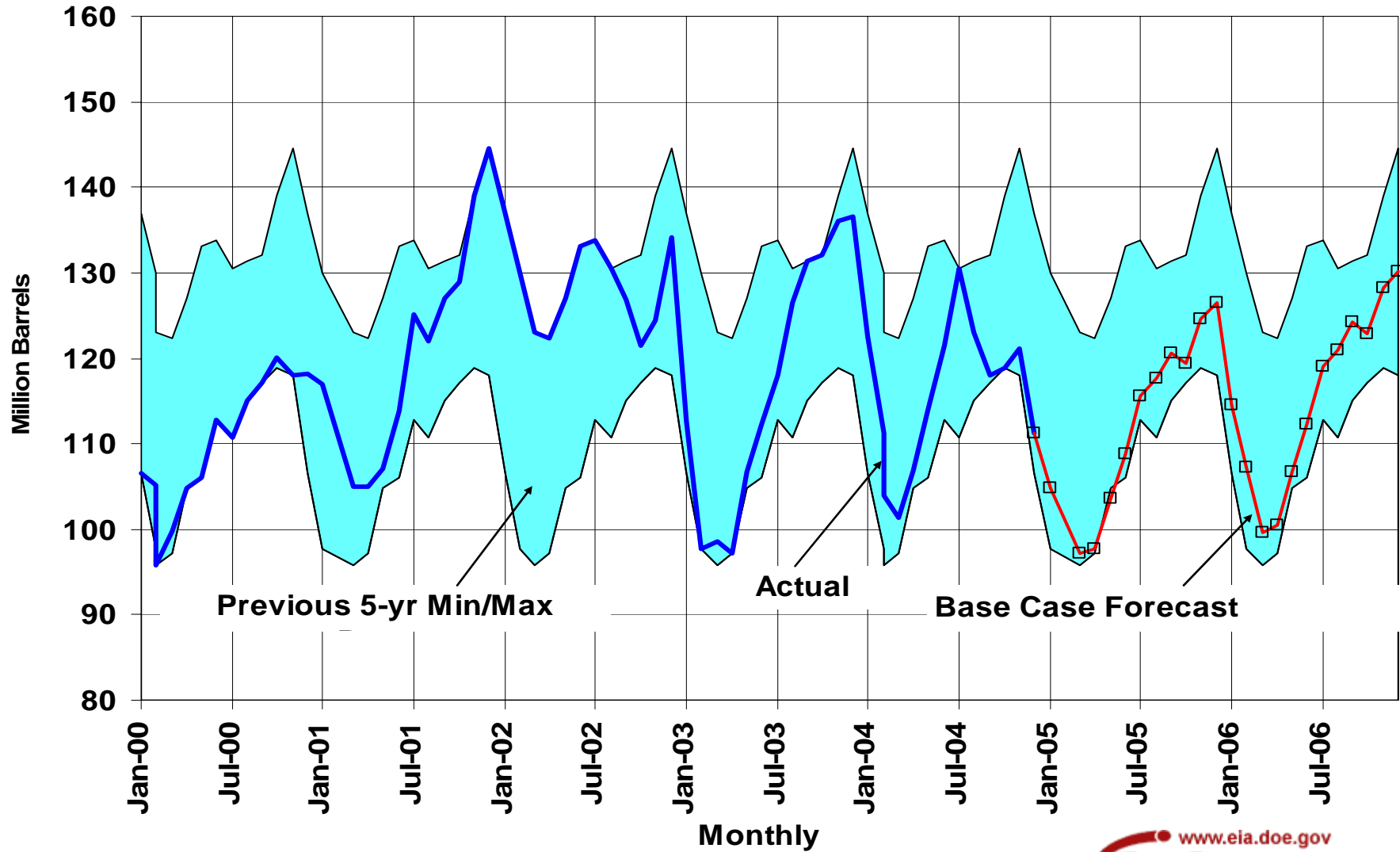


# Figure 13. U.S. Coal Production

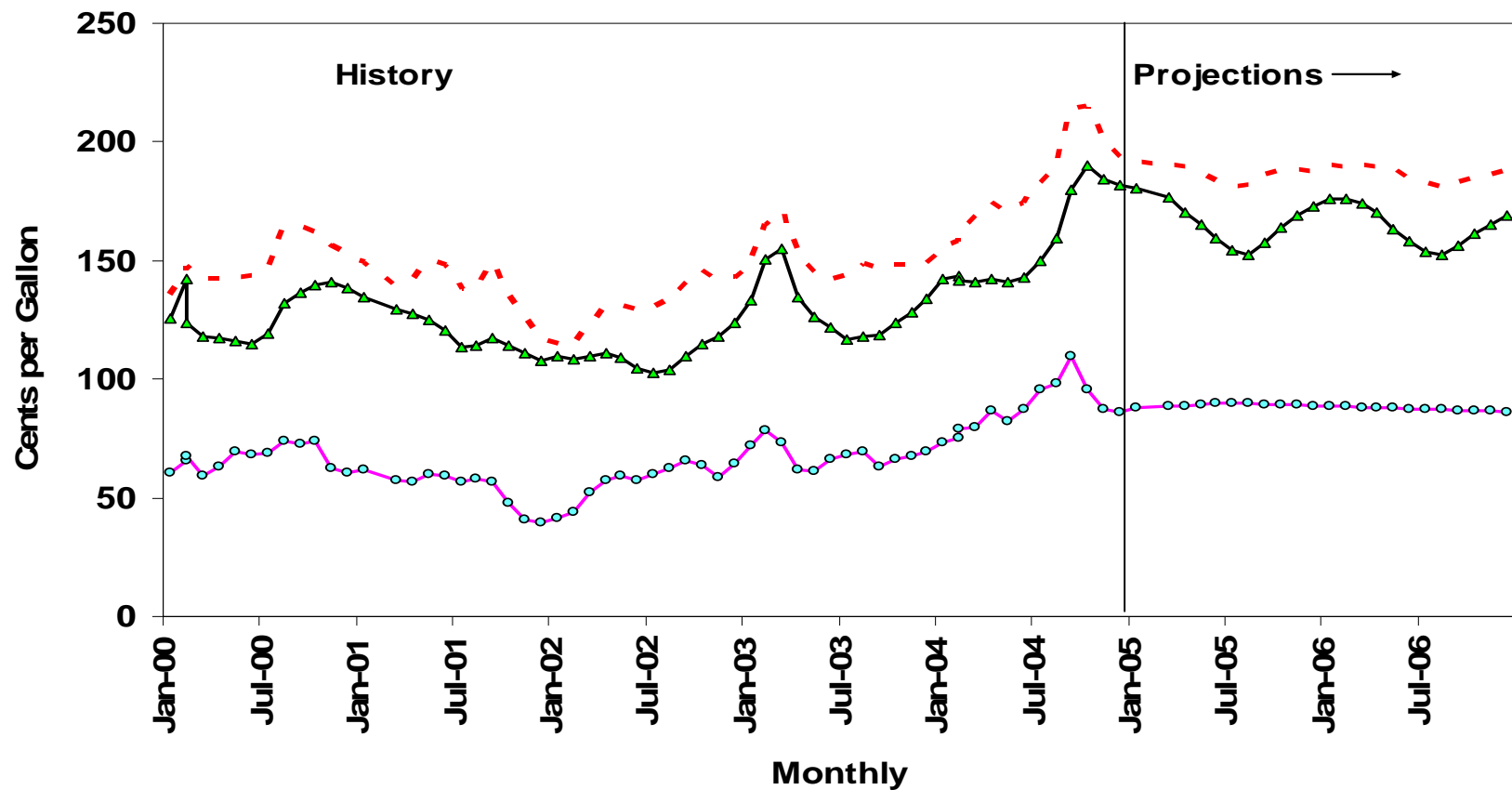


# **Additional Charts**

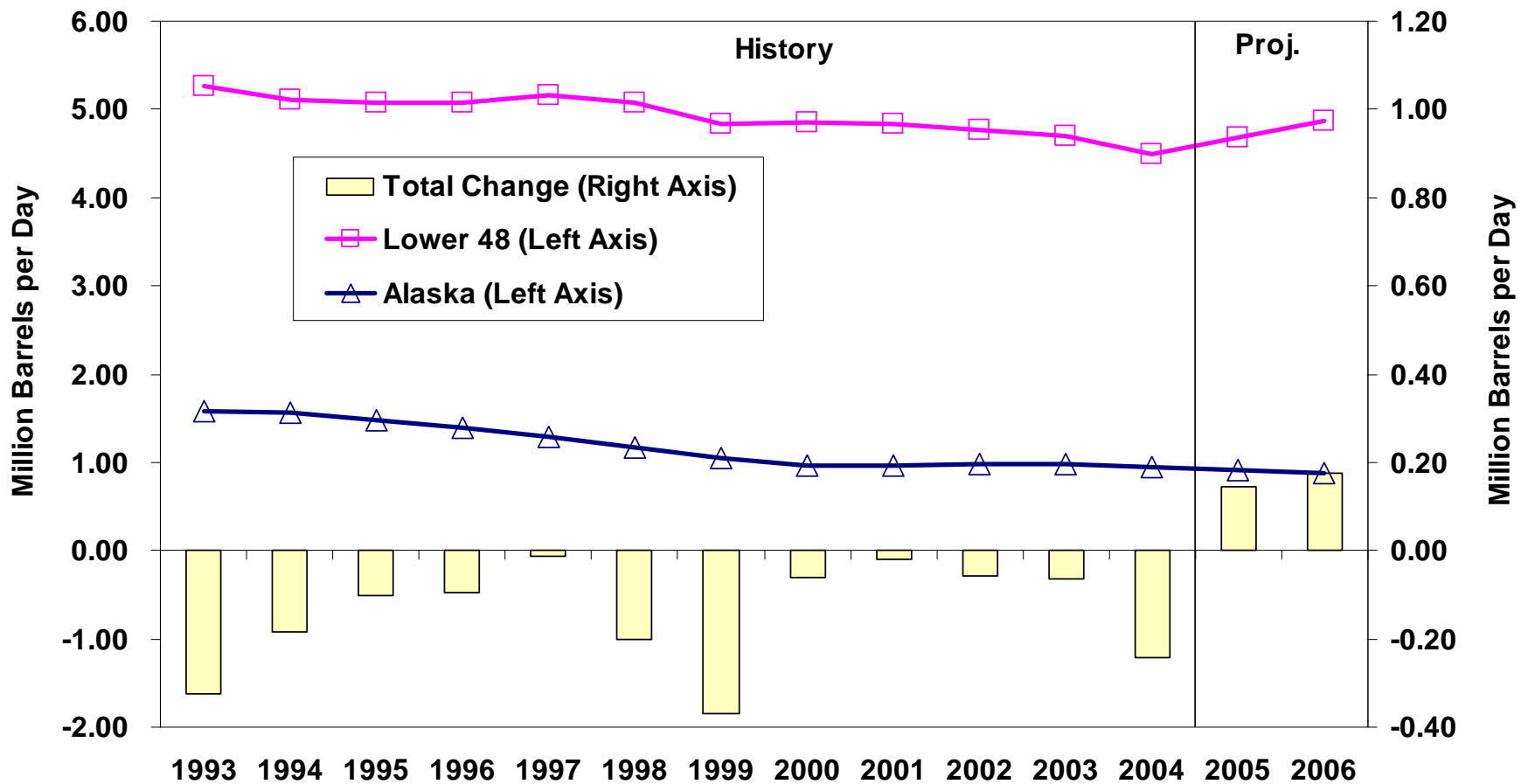
# Figure 14. U.S. Distillate Stocks



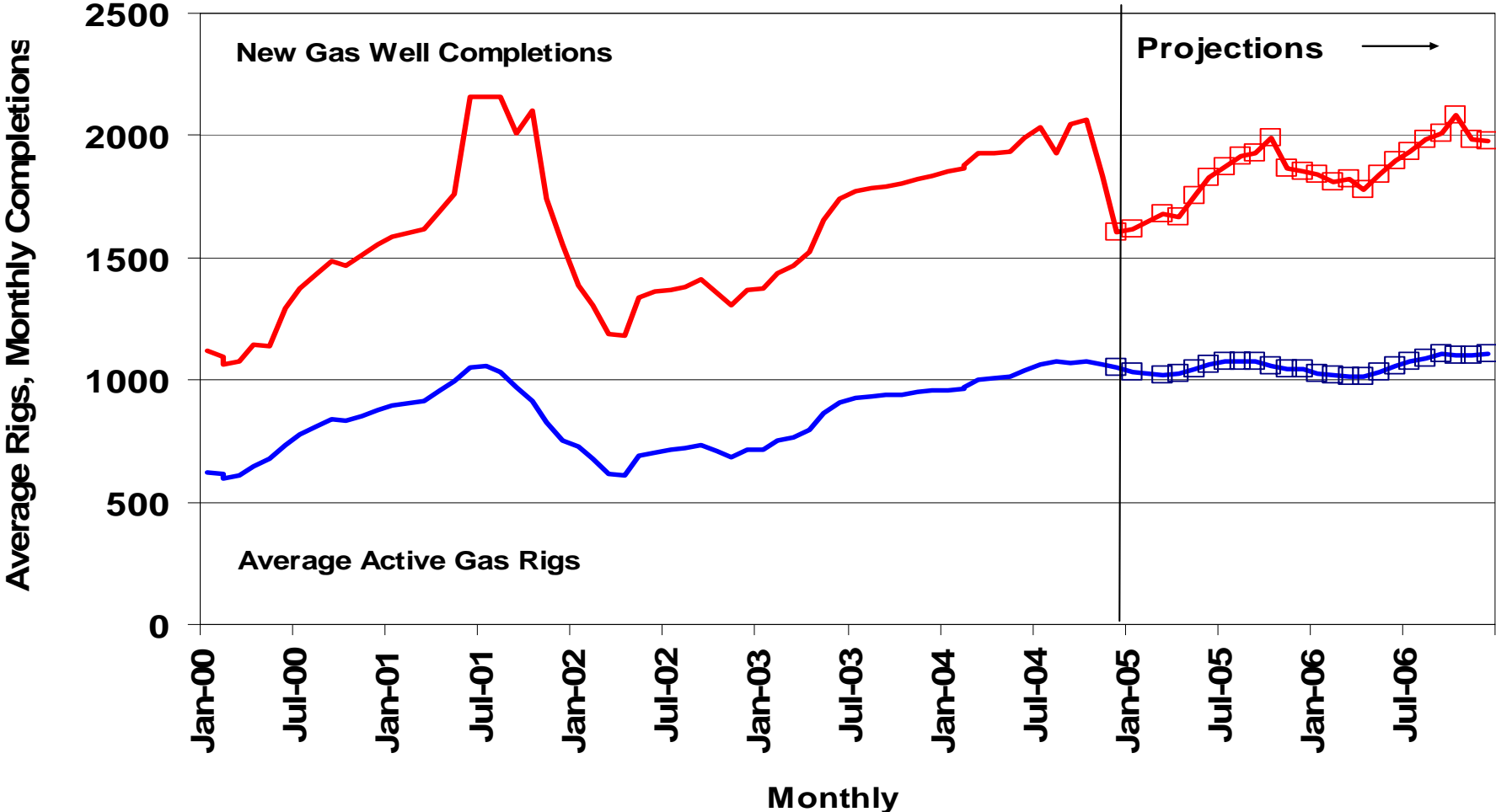
# Figure 15. U.S. Distillate Fuel Prices



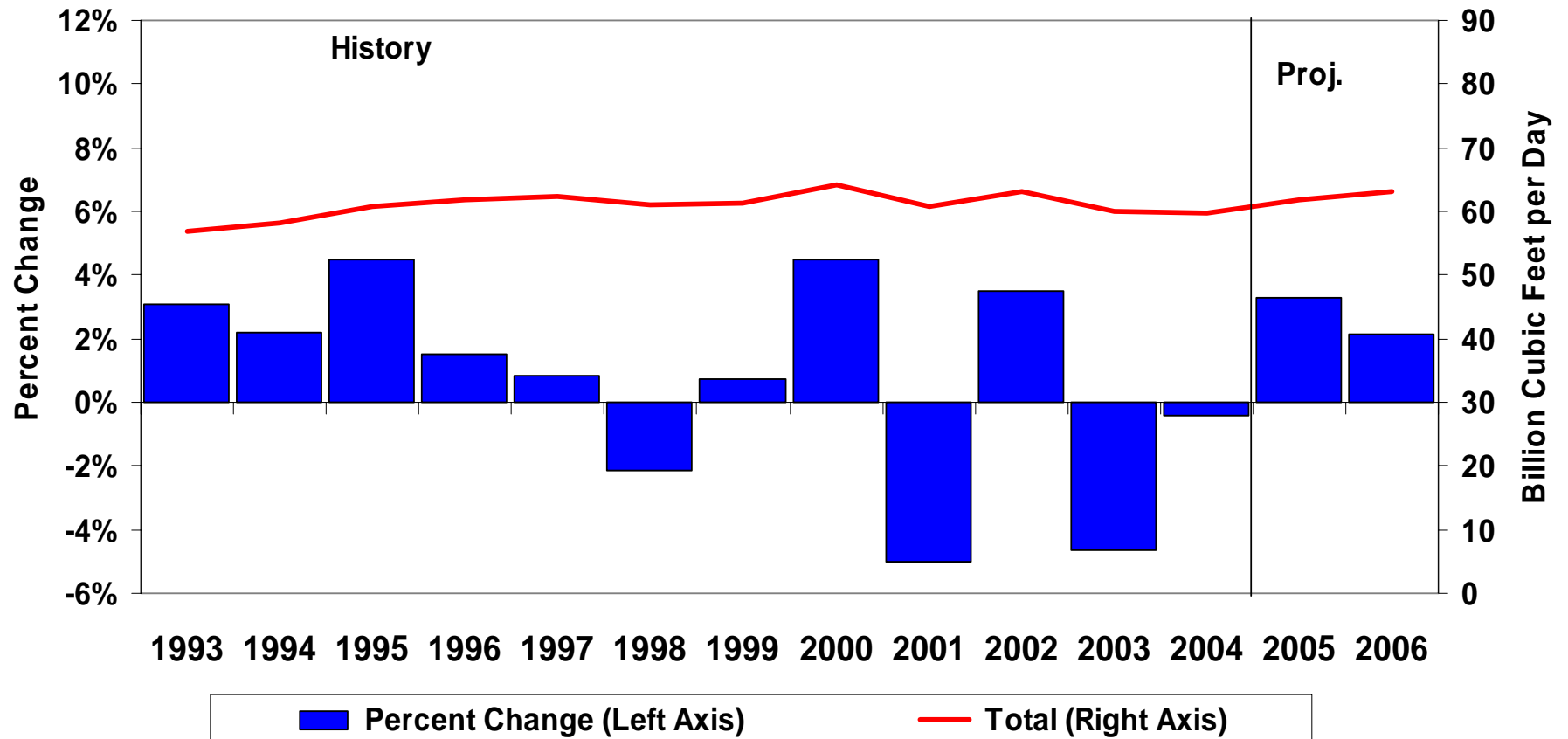
# Figure 16. U.S. Crude Oil Production Trends



# 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
<b>Real Gross Domestic Product (GDP)</b> (billion chained 2000 dollars) .....	<b>10381</b>	10843	11228	11581	4.4	3.6	3.1
Imported Crude Oil Price <sup>a</sup> (nominal dollars per barrel).....	<b>27.74</b>	36.09	36.60	36.00	30.1	1.4	-1.6
<i>Petroleum Supply (million barrels per day)</i> Crude Oil Production <sup>b</sup> .....	<b>5.68</b>	5.44	5.58	5.76	-4.3	2.7	3.2
Total Petroleum Net Imports( million barrels per day) (including SPR).....	<b>11.24</b>	11.85	12.07	12.20	5.4	1.9	1.1
<b>Energy Demand</b>							
World Petroleum (million barrels per day) .....	79.8	82.4	84.5	86.5	3.3	2.5	2.4
Petroleum (million barrels per day) .....	<b>20.03</b>	20.48	20.89	21.29	2.2	2.0	1.9
Natural Gas (trillion cubic feet) .....	<b>21.93</b>	21.90	22.57	23.04	-0.1	3.0	2.1
Coal <sup>c</sup> (million short tons) .....	<b>1094</b>	1104	1136	1161	0.9	2.9	2.3
Electricity (billion kilowatthours)							
Retail Sales <sup>d</sup> .....	<b>3500</b>	3547	3663	3743	1.3	3.3	2.2
Other Use/Sales <sup>e</sup> .....	<b>174</b>	178	185	187	2.7	3.6	1.0
Total .....	<b>3674</b>	3725	3848	3930	1.4	3.3	2.1
Total Energy Demand <sup>f</sup> (quadrillion Btu).....	<b>98.2</b>	99.0	101.9	103.7	0.9	2.9	1.8
Total Energy Demand per Dollar of GDP (thousand Btu per 2000 Dollar).....	<b>9.46</b>	9.13	9.07	8.95	-3.4	-0.7	-1.3
Renewable Energy as Percent of Total <sup>g</sup> .....	<b>6.4%</b>	6.6%	6.6%	6.6%			

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

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

<sup>c</sup>Total Demand includes estimated Independent Power Producer (IPP) coal consumption.

<sup>d</sup>Total 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.

<sup>e</sup>Defined 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.

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

<sup>g</sup>Renewable 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, December 2004



**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
<b>Macroeconomic <sup>a</sup></b>															
Real Gross Domestic Product (billion chained 2000 dollars - SAAR).....	<b>10698</b>	<b>10785</b>	<b>10890</b>	<i>10998</i>	<i>11092</i>	<i>11191</i>	<i>11276</i>	<i>11353</i>	<i>11434</i>	<i>11534</i>	<i>11636</i>	<i>11719</i>	<i>10843</i>	<i>11226</i>	<i>11581</i>
Percentage Change from Prior Year .....	<b>5.0</b>	<b>4.8</b>	<b>4.0</b>	<i>3.9</i>	<i>3.7</i>	<i>3.8</i>	<i>3.5</i>	<i>3.2</i>	<i>3.1</i>	<i>3.1</i>	<i>3.2</i>	<i>3.2</i>	<i>4.4</i>	<i>3.6</i>	<i>3.1</i>
Annualized Percent Change from Prior Quarter.....	<b>4.5</b>	<b>3.3</b>	<b>3.9</b>	<i>4.1</i>	<i>3.4</i>	<i>3.6</i>	<i>3.1</i>	<i>2.7</i>	<i>2.9</i>	<i>3.5</i>	<i>3.6</i>	<i>2.9</i>			
GDP Implicit Price Deflator (Index, 2000=100) .....	<b>107.3</b>	<b>108.2</b>	<b>108.5</b>	<i>109.0</i>	<i>109.5</i>	<i>110.0</i>	<i>110.5</i>	<i>111.0</i>	<i>111.5</i>	<i>112.0</i>	<i>112.5</i>	<i>113.1</i>	<i>108.2</i>	<i>110.2</i>	<i>112.3</i>
Percentage Change from Prior Year .....	<b>1.7</b>	<b>2.3</b>	<b>2.2</b>	<i>2.3</i>	<i>2.0</i>	<i>1.7</i>	<i>1.8</i>	<i>1.8</i>	<i>1.9</i>	<i>1.9</i>	<i>1.8</i>	<i>1.9</i>	<i>2.1</i>	<i>1.8</i>	<i>1.9</i>
Real Disposable Personal Income (billion chained 2000 Dollars - SAAR) .....	<b>7897</b>	<b>7952</b>	<b>7990</b>	<i>8136</i>	<i>8128</i>	<i>8195</i>	<i>8241</i>	<i>8270</i>	<i>8345</i>	<i>8424</i>	<i>8507</i>	<i>8557</i>	<i>7994</i>	<i>8208</i>	<i>8458</i>
Percentage Change from Prior Year .....	<b>4.0</b>	<b>3.7</b>	<b>2.1</b>	<i>3.6</i>	<i>2.9</i>	<i>3.1</i>	<i>3.1</i>	<i>1.6</i>	<i>2.7</i>	<i>2.8</i>	<i>3.2</i>	<i>3.5</i>	<i>3.4</i>	<i>2.7</i>	<i>3.0</i>
Manufacturing Production (Index, 1997=100.0) .....	<b>116.0</b>	<b>117.8</b>	<b>119.1</b>	<i>120.2</i>	<i>121.8</i>	<i>123.8</i>	<i>125.3</i>	<i>126.6</i>	<i>127.5</i>	<i>128.6</i>	<i>130.0</i>	<i>131.6</i>	<i>118.3</i>	<i>124.4</i>	<i>129.4</i>
Percentage Change from Prior Year .....	<b>3.2</b>	<b>5.8</b>	<b>5.9</b>	<i>5.3</i>	<i>5.1</i>	<i>5.0</i>	<i>5.2</i>	<i>5.3</i>	<i>4.7</i>	<i>3.9</i>	<i>3.8</i>	<i>3.9</i>	<i>5.1</i>	<i>5.1</i>	<i>4.1</i>
OECD Economic Growth (percent) <sup>b</sup> .....													<i>1.9</i>	<i>3.2</i>	<i>2.7</i>
<b>Weather <sup>c</sup></b>															
Heating Degree-Days															
U.S.....	<b>2229</b>	<b>438</b>	<b>63</b>	<i>1513</i>	<i>2222</i>	<i>537</i>	<i>107</i>	<i>1630</i>	<i>2256</i>	<i>533</i>	<i>99</i>	<i>1622</i>	<i>4243</i>	<i>4496</i>	<i>4511</i>
New England .....	<b>3396</b>	<b>840</b>	<b>130</b>	<i>2226</i>	<i>3206</i>	<i>930</i>	<i>195</i>	<i>2276</i>	<i>3254</i>	<i>914</i>	<i>190</i>	<i>2258</i>	<i>6592</i>	<i>6607</i>	<i>6617</i>
Middle Atlantic .....	<b>3100</b>	<b>591</b>	<b>37</b>	<i>1972</i>	<i>2932</i>	<i>743</i>	<i>125</i>	<i>2046</i>	<i>2978</i>	<i>738</i>	<i>126</i>	<i>2050</i>	<i>5700</i>	<i>5846</i>	<i>5892</i>
U.S. Gas-Weighted.....	<b>2397</b>	<b>485</b>	<b>74</b>	<i>1646</i>	<i>2375</i>	<i>592</i>	<i>122</i>	<i>1751</i>	<i>2411</i>	<i>587</i>	<i>113</i>	<i>1738</i>	<i>4602</i>	<i>4841</i>	<i>4848</i>
Cooling Degree-Days (U.S.).....	<b>40</b>	<b>373</b>	<b>738</b>	<b>92</b>	<b>36</b>	<b>349</b>	<i>779</i>	<i>77</i>	<i>32</i>	<i>361</i>	<i>786</i>	<i>82</i>	<i>1244</i>	<i>1241</i>	<i>1261</i>

<sup>a</sup>Macroeconomic projections from Global Insight model forecasts are seasonally adjusted at annual rates and modified as appropriate to the base world oil price case.

<sup>b</sup>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, South Korea, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and the United States.

<sup>c</sup>Population-weighted degree-days. A degree-day indicates the temperature variation from 65 degrees Fahrenheit (calculated as the simple average of the daily minimum and maximum temperatures) weighted by 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, December 2004.

**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
<b>Macroeconomic <sup>a</sup></b>															
Real Fixed Investment (billion chained 2000 dollars-SAAR).....	<b>1721</b>	<b>1778</b>	<b>1816</b>	<i>1866</i>	<i>1882</i>	<i>1898</i>	<i>1908</i>	<i>1922</i>	<i>1932</i>	<i>1945</i>	<i>1954</i>	<i>1957</i>	<i>1796</i>	<i>1903</i>	<i>1947</i>
Real Exchange Rate (index).....	<b>0.850</b>	<b>0.875</b>	<b>0.858</b>	<i>0.804</i>	<i>0.773</i>	<i>0.768</i>	<i>0.761</i>	<i>0.755</i>	<i>0.749</i>	<i>0.745</i>	<i>0.741</i>	<i>0.738</i>	<i>0.847</i>	<i>0.764</i>	<i>0.743</i>
Business Inventory Change (billion chained 2000 dollars-SAAR).....	<b>3.0</b>	<b>9.1</b>	<b>7.5</b>	<i>9.9</i>	<i>11.3</i>	<i>12.9</i>	<i>10.7</i>	<i>9.3</i>	<i>8.9</i>	<i>10.0</i>	<i>12.6</i>	<i>13.8</i>	<i>7.4</i>	<i>11.1</i>	<i>11.3</i>
Producer Price Index (index, 1982=1.000) .....	<b>1.420</b>	<b>1.459</b>	<b>1.476</b>	<i>1.502</i>	<i>1.497</i>	<i>1.491</i>	<i>1.497</i>	<i>1.509</i>	<i>1.508</i>	<i>1.499</i>	<i>1.503</i>	<i>1.515</i>	<i>1.464</i>	<i>1.499</i>	<i>1.506</i>
Consumer Price Index (index, 1982-1984=1.000) .....	<b>1.864</b>	<b>1.886</b>	<b>1.895</b>	<i>1.910</i>	<i>1.914</i>	<i>1.923</i>	<i>1.933</i>	<i>1.946</i>	<i>1.956</i>	<i>1.963</i>	<i>1.970</i>	<i>1.983</i>	<i>1.889</i>	<i>1.929</i>	<i>1.968</i>
Petroleum Product Price Index (index, 1982=1.000) .....	<b>1.051</b>	<b>1.178</b>	<b>1.234</b>	<i>1.331</i>	<i>1.200</i>	<i>1.221</i>	<i>1.178</i>	<i>1.157</i>	<i>1.179</i>	<i>1.213</i>	<i>1.159</i>	<i>1.130</i>	<i>1.198</i>	<i>1.189</i>	<i>1.170</i>
Non-Farm Employment (millions).....	<b>130.4</b>	<b>131.1</b>	<b>131.5</b>	<i>132.1</i>	<i>132.6</i>	<i>133.3</i>	<i>133.9</i>	<i>134.4</i>	<i>134.8</i>	<i>135.2</i>	<i>135.6</i>	<i>136.0</i>	<i>131.3</i>	<i>133.6</i>	<i>135.4</i>
Commercial Employment (millions).....	<b>92.3</b>	<b>93.0</b>	<b>93.3</b>	<i>93.8</i>	<i>94.3</i>	<i>95.0</i>	<i>95.5</i>	<i>95.9</i>	<i>96.3</i>	<i>96.7</i>	<i>97.1</i>	<i>97.5</i>	<i>93.1</i>	<i>95.2</i>	<i>96.9</i>
Total Industrial Production (index, 1997=100.0) .....	<b>114.4</b>	<b>115.8</b>	<b>116.7</b>	<i>117.9</i>	<i>119.4</i>	<i>120.8</i>	<i>121.8</i>	<i>122.7</i>	<i>123.5</i>	<i>124.4</i>	<i>125.6</i>	<i>126.9</i>	<i>116.2</i>	<i>121.2</i>	<i>125.1</i>
Housing Stock (millions).....	<b>117.8</b>	<b>117.9</b>	<b>118.3</b>	<i>118.7</i>	<i>119.0</i>	<i>119.4</i>	<i>119.7</i>	<i>120.1</i>	<i>120.4</i>	<i>120.7</i>	<i>121.0</i>	<i>121.3</i>	<i>118.2</i>	<i>119.6</i>	<i>120.8</i>
<b>Miscellaneous</b>															
Gas Weighted Industrial Production (index, 1997=100.0) .....	<b>102.2</b>	<b>103.4</b>	<b>104.7</b>	<i>105.4</i>	<i>106.4</i>	<i>107.8</i>	<i>108.6</i>	<i>109.1</i>	<i>109.4</i>	<i>109.7</i>	<i>110.3</i>	<i>110.8</i>	<i>103.9</i>	<i>108.0</i>	<i>110.0</i>
Vehicle Miles Traveled <sup>b</sup> (million miles/day).....	<b>7421</b>	<b>8294</b>	<b>8278</b>	<i>7974</i>	<i>7580</i>	<i>8407</i>	<i>8453</i>	<i>8126</i>	<i>7770</i>	<i>8579</i>	<i>8661</i>	<i>8314</i>	<i>7992</i>	<i>8144</i>	<i>8333</i>
Vehicle Fuel Efficiency (index, 1999=1.000) .....	<b>0.985</b>	<b>1.055</b>	<b>1.051</b>	<i>1.014</i>	<i>0.985</i>	<i>1.049</i>	<i>1.046</i>	<i>1.026</i>	<i>0.981</i>	<i>1.083</i>	<i>1.093</i>	<i>1.049</i>	<i>1.027</i>	<i>1.027</i>	<i>1.052</i>
Real Vehicle Fuel Cost (cents per mile).....	<b>4.52</b>	<b>4.82</b>	<b>4.74</b>	<i>5.00</i>	<i>4.85</i>	<i>4.83</i>	<i>4.66</i>	<i>4.51</i>	<i>4.61</i>	<i>4.69</i>	<i>4.49</i>	<i>4.33</i>	<i>4.78</i>	<i>4.71</i>	<i>4.53</i>
Air Travel Capacity (mill. available ton-miles/day) .....	<b>475.3</b>	<b>502.8</b>	<b>525.2</b>	<i>528.1</i>	<i>513.7</i>	<i>521.3</i>	<i>525.6</i>	<i>522.4</i>	<i>521.1</i>	<i>533.2</i>	<i>551.2</i>	<i>540.3</i>	<i>508.0</i>	<i>520.8</i>	<i>536.6</i>
Aircraft Utilization (mill. revenue ton-miles/day) .....	<b>265.8</b>	<b>304.0</b>	<b>316.3</b>	<i>301.4</i>	<i>290.7</i>	<i>315.1</i>	<i>329.0</i>	<i>317.7</i>	<i>305.6</i>	<i>329.5</i>	<i>336.2</i>	<i>327.8</i>	<i>296.9</i>	<i>313.3</i>	<i>324.9</i>
Airline Ticket Price Index (index, 1982-1984=1.000) .....	<b>2.275</b>	<b>2.317</b>	<b>2.263</b>	<i>2.261</i>	<i>2.319</i>	<i>2.395</i>	<i>2.429</i>	<i>2.390</i>	<i>2.448</i>	<i>2.501</i>	<i>2.522</i>	<i>2.475</i>	<i>2.279</i>	<i>2.383</i>	<i>2.486</i>
Raw Steel Production (million tons).....	<b>26.32</b>	<b>27.07</b>	<b>27.71</b>	<i>26.69</i>	<i>26.05</i>	<i>27.38</i>	<i>27.58</i>	<i>26.58</i>	<i>27.00</i>	<i>27.92</i>	<i>28.07</i>	<i>26.93</i>	<i>107.79</i>	<i>107.59</i>	<i>109.93</i>

<sup>a</sup>Macroeconomic projections from Global Insight model forecasts are seasonally adjusted at annual rates and modified as appropriate to the base world oil price case.

<sup>b</sup>Includes 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, DEcember 2004.

**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
<b>Demand<sup>a</sup></b>															
OECD															
U.S. (50 States).....	<b>20.4</b>	<b>20.2</b>	<b>20.6</b>	<i>20.7</i>	<i>20.9</i>	<i>20.7</i>	<i>21.0</i>	<i>21.0</i>	<i>21.3</i>	<i>21.0</i>	<i>21.4</i>	<i>21.4</i>	<i>20.5</i>	<i>20.9</i>	<i>21.3</i>
U.S. Territories.....	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>	<i>0.4</i>
Canada.....	<b>2.3</b>	<b>2.3</b>	<b>2.3</b>	<i>2.3</i>	<i>2.2</i>	<i>2.2</i>	<i>2.4</i>	<i>2.3</i>	<i>2.3</i>	<i>2.2</i>	<i>2.4</i>	<i>2.4</i>	<i>2.3</i>	<i>2.3</i>	<i>2.3</i>
Europe.....	<b>15.7</b>	<b>15.3</b>	<b>15.7</b>	<i>15.8</i>	<i>15.7</i>	<i>15.5</i>	<i>15.8</i>	<i>16.0</i>	<i>15.9</i>	<i>15.7</i>	<i>15.9</i>	<i>16.1</i>	<i>15.6</i>	<i>15.8</i>	<i>15.9</i>
Japan.....	<b>6.1</b>	<b>5.0</b>	<b>5.2</b>	<i>5.6</i>	<i>6.0</i>	<i>4.9</i>	<i>5.1</i>	<i>5.6</i>	<i>6.0</i>	<i>4.9</i>	<i>5.1</i>	<i>5.6</i>	<i>5.5</i>	<i>5.4</i>	<i>5.4</i>
Other OECD.....	<b>5.3</b>	<b>5.1</b>	<b>5.1</b>	<i>5.3</i>	<i>5.3</i>	<i>5.2</i>	<i>5.3</i>	<i>5.4</i>	<i>5.4</i>	<i>5.3</i>	<i>5.3</i>	<i>5.5</i>	<i>5.2</i>	<i>5.3</i>	<i>5.4</i>
Total OECD.....	<b>50.1</b>	<b>48.2</b>	<b>49.1</b>	<i>50.2</i>	<i>50.6</i>	<i>48.9</i>	<i>49.9</i>	<i>50.7</i>	<i>51.3</i>	<i>49.5</i>	<i>50.6</i>	<i>51.3</i>	<i>49.4</i>	<i>50.0</i>	<i>50.7</i>
Non-OECD															
Former Soviet Union.....	<b>4.2</b>	<b>3.8</b>	<b>4.0</b>	<i>4.6</i>	<i>4.4</i>	<i>3.9</i>	<i>4.1</i>	<i>4.7</i>	<i>4.4</i>	<i>3.9</i>	<i>4.2</i>	<i>4.7</i>	<i>4.2</i>	<i>4.2</i>	<i>4.3</i>
Europe.....	<b>0.8</b>	<b>0.8</b>	<b>0.7</b>	<i>0.8</i>	<i>0.9</i>	<i>0.8</i>	<i>0.7</i>	<i>0.8</i>	<i>0.9</i>	<i>0.8</i>	<i>0.8</i>	<i>0.8</i>	<i>0.8</i>	<i>0.8</i>	<i>0.8</i>
China.....	<b>6.2</b>	<b>6.6</b>	<b>6.8</b>	<i>6.8</i>	<i>7.0</i>	<i>7.2</i>	<i>7.2</i>	<i>7.4</i>	<i>7.5</i>	<i>7.7</i>	<i>7.8</i>	<i>8.0</i>	<i>6.6</i>	<i>7.2</i>	<i>7.8</i>
Other Asia.....	<b>8.0</b>	<b>8.3</b>	<b>8.3</b>	<i>8.7</i>	<i>8.4</i>	<i>8.6</i>	<i>8.6</i>	<i>9.1</i>	<i>8.7</i>	<i>9.0</i>	<i>8.9</i>	<i>9.4</i>	<i>8.3</i>	<i>8.7</i>	<i>9.0</i>
Other Non-OECD.....	<b>12.9</b>	<b>13.0</b>	<b>13.2</b>	<i>13.2</i>	<i>13.4</i>	<i>13.4</i>	<i>13.6</i>	<i>13.6</i>	<i>13.8</i>	<i>13.8</i>	<i>14.1</i>	<i>14.1</i>	<i>13.1</i>	<i>13.5</i>	<i>13.9</i>
Total Non-OECD.....	<b>32.2</b>	<b>32.5</b>	<b>33.0</b>	<i>34.1</i>	<i>33.9</i>	<i>33.9</i>	<i>34.3</i>	<i>35.6</i>	<i>35.3</i>	<i>35.3</i>	<i>35.7</i>	<i>37.1</i>	<i>33.0</i>	<i>34.4</i>	<i>35.8</i>
Total World Demand.....	<b>82.4</b>	<b>80.7</b>	<b>82.2</b>	<i>84.4</i>	<i>84.5</i>	<i>82.8</i>	<i>84.2</i>	<i>86.3</i>	<i>86.6</i>	<i>84.7</i>	<i>86.3</i>	<i>88.4</i>	<i>82.4</i>	<i>84.5</i>	<i>86.5</i>
<b>Supply<sup>b</sup></b>															
OECD															
U.S. (50 States).....	<b>8.9</b>	<b>8.7</b>	<b>8.6</b>	<i>8.5</i>	<i>8.7</i>	<i>8.7</i>	<i>8.8</i>	<i>9.0</i>	<i>9.1</i>	<i>9.0</i>	<i>9.0</i>	<i>9.0</i>	<i>8.7</i>	<i>8.8</i>	<i>9.0</i>
Canada.....	<b>3.2</b>	<b>3.1</b>	<b>3.1</b>	<i>3.2</i>	<i>3.2</i>	<i>3.1</i>	<i>3.2</i>	<i>3.2</i>	<i>3.2</i>	<i>3.1</i>	<i>3.2</i>	<i>3.3</i>	<i>3.1</i>	<i>3.2</i>	<i>3.2</i>
Mexico.....	<b>3.8</b>	<b>3.9</b>	<b>3.8</b>	<i>3.9</i>	<i>3.9</i>	<i>3.9</i>	<i>4.0</i>	<i>3.9</i>	<i>3.9</i>	<i>3.9</i>	<i>4.0</i>	<i>3.9</i>	<i>3.9</i>	<i>3.9</i>	<i>3.9</i>
North Sea <sup>c</sup> .....	<b>5.9</b>	<b>5.7</b>	<b>5.2</b>	<i>5.6</i>	<i>5.7</i>	<i>5.4</i>	<i>5.1</i>	<i>5.4</i>	<i>5.5</i>	<i>5.2</i>	<i>5.0</i>	<i>5.2</i>	<i>5.6</i>	<i>5.4</i>	<i>5.2</i>
Other OECD.....	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<i>1.5</i>	<i>1.4</i>	<i>1.5</i>	<i>1.5</i>	<i>1.5</i>	<i>1.5</i>	<i>1.5</i>	<i>1.5</i>	<i>1.5</i>	<i>1.5</i>	<i>1.5</i>	<i>1.5</i>
Total OECD.....	<b>23.3</b>	<b>23.0</b>	<b>22.2</b>	<i>22.7</i>	<i>23.0</i>	<i>22.7</i>	<i>22.7</i>	<i>23.0</i>	<i>23.1</i>	<i>22.8</i>	<i>22.6</i>	<i>22.9</i>	<i>22.8</i>	<i>22.8</i>	<i>22.9</i>
Non-OECD															
OPEC.....	<b>32.2</b>	<b>32.2</b>	<b>33.6</b>	<i>33.6</i>	<i>33.2</i>	<i>33.2</i>	<i>33.6</i>	<i>33.8</i>	<i>33.9</i>	<i>34.0</i>	<i>34.3</i>	<i>34.4</i>	<i>32.9</i>	<i>33.4</i>	<i>34.2</i>
Crude Oil Portion.....	<b>28.5</b>	<b>28.5</b>	<b>29.9</b>	<i>29.8</i>	<i>29.4</i>	<i>29.4</i>	<i>29.9</i>	<i>30.0</i>	<i>30.2</i>	<i>30.3</i>	<i>30.6</i>	<i>30.7</i>	<i>29.2</i>	<i>29.7</i>	<i>30.4</i>
Former Soviet Union.....	<b>11.0</b>	<b>11.2</b>	<b>11.5</b>	<i>11.6</i>	<i>11.6</i>	<i>11.7</i>	<i>11.8</i>	<i>12.0</i>	<i>12.2</i>	<i>12.4</i>	<i>12.5</i>	<i>12.7</i>	<i>11.3</i>	<i>11.8</i>	<i>12.5</i>
China.....	<b>3.6</b>	<b>3.6</b>	<b>3.7</b>	<i>3.7</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>	<i>3.6</i>
Other Non-OECD.....	<b>12.2</b>	<b>12.3</b>	<b>12.5</b>	<i>12.6</i>	<i>12.5</i>	<i>12.6</i>	<i>12.8</i>	<i>13.0</i>	<i>13.2</i>	<i>13.4</i>	<i>13.6</i>	<i>13.7</i>	<i>12.4</i>	<i>12.7</i>	<i>13.5</i>
Total Non-OECD.....	<b>59.0</b>	<b>59.4</b>	<b>61.2</b>	<i>61.4</i>	<i>60.9</i>	<i>61.1</i>	<i>61.9</i>	<i>62.4</i>	<i>63.0</i>	<i>63.4</i>	<i>64.0</i>	<i>64.4</i>	<i>60.3</i>	<i>61.6</i>	<i>63.7</i>
Total World Supply.....	<b>82.3</b>	<b>82.3</b>	<b>83.5</b>	<i>84.1</i>	<i>83.8</i>	<i>83.8</i>	<i>84.5</i>	<i>85.4</i>	<i>86.1</i>	<i>86.2</i>	<i>86.6</i>	<i>87.3</i>	<i>83.1</i>	<i>84.4</i>	<i>86.6</i>
<b>Stock Changes<sup>d</sup> (incl. strategic) and Balance</b>															
U.S. (50 States) Stock Chg. ....	<b>0.0</b>	<b>-0.7</b>	<b>-0.2</b>	<i>0.1</i>	<i>0.1</i>	<i>-0.7</i>	<i>0.0</i>	<i>0.3</i>	<i>0.2</i>	<i>-0.6</i>	<i>0.0</i>	<i>0.4</i>	<i>-0.2</i>	<i>-0.1</i>	<i>0.0</i>
Other OECD Stock Chg. ....	<b>0.1</b>	<b>-0.2</b>	<b>-0.4</b>	<i>0.1</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.2</i>	<i>0.2</i>	<i>0.1</i>	<i>-0.2</i>	<i>-0.1</i>	<i>0.3</i>	<i>-0.1</i>	<i>0.0</i>	<i>0.0</i>
Other Stock Chgs. and Bal.....	<b>-0.1</b>	<b>-0.7</b>	<b>-0.8</b>	<i>0.1</i>	<i>0.7</i>	<i>-0.4</i>	<i>-0.1</i>	<i>0.4</i>	<i>0.2</i>	<i>-0.6</i>	<i>-0.2</i>	<i>0.4</i>	<i>-0.4</i>	<i>0.1</i>	<i>-0.1</i>
Total.....	<b>0.1</b>	<b>-1.6</b>	<b>-1.3</b>	<i>0.2</i>	<i>0.7</i>	<i>-1.1</i>	<i>-0.3</i>	<i>0.9</i>	<i>0.5</i>	<i>-1.4</i>	<i>-0.3</i>	<i>1.1</i>	<i>-0.6</i>	<i>0.0</i>	<i>-0.1</i>
OECD Comm. Stocks, End (bill. bbls.)..	<b>2.47</b>	<b>2.55</b>	<b>2.60</b>	<i>2.59</i>	<i>2.59</i>	<i>2.64</i>	<i>2.66</i>	<i>2.61</i>	<i>2.58</i>	<i>2.65</i>	<i>2.67</i>	<i>2.61</i>	<i>2.59</i>	<i>2.61</i>	<i>2.61</i>
Non-OPEC Supply.....	<b>50.1</b>	<b>50.1</b>	<b>49.9</b>	<i>50.5</i>	<i>50.7</i>	<i>50.7</i>	<i>50.9</i>	<i>51.7</i>	<i>52.2</i>	<i>52.1</i>	<i>52.3</i>	<i>52.9</i>	<i>50.2</i>	<i>51.0</i>	<i>52.4</i>

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

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

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

<sup>d</sup>Stock 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, 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 following reports: *International Petroleum Monthly*, DOE/EIA-0520; Organization for Economic Cooperation and Development, Annual and Monthly Oil Statistics Database.

**Table 3a. OPEC Oil Production**

(Thousand Barrels Per Day)

	11/01/2004	November 2004	December 2004		
	OPEC 10 Quota	Production	Production	Capacity	Surplus Capacity
Algeria .....	862	1,250	1,250	1,250	0
Indonesia .....	1,399	960	980	980	0
Iran .....	3,964	3,900	3,900	3,900	0
Kuwait .....	2,167	2,400	2,400	2,400	0
Libya .....	1,445	1,560	1,560	1,560	0
Nigeria .....	2,224	2,300	2,200	2,200	0
Qatar .....	700	800	800	800	0
Saudi Arabia .....	8,776	9,500	9,500	10,500 - 11,000	1,000 - 1,500
United Arab Emirates .....	2,356	2,500	2,500	2,500	0
Venezuela .....	3,107	2,500	2,600	2,600	0
<b>OPEC 10</b> .....	<b>27,000</b>	<b>27,670</b>	<b>27,690</b>	<b>28,690 - 29,190</b>	<b>1,000 - 1,500</b>
Iraq .....		1,700	1,900	1,900	0
<b>Crude Oil Total</b> .....		<b>29,370</b>	<b>29,590</b>	<b>30,590 - 31,090</b>	<b>1,000 - 1,500</b>
<b>Other Liquids</b> .....		<b>3,924</b>	<b>3,925</b>		
<b>Total OPEC Supply</b> .....		<b>33,294</b>	<b>33,515</b>		

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 2.1 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
<b>Crude Oil Prices</b> (dollars per barrel)															
Imported Average <sup>a</sup> .....	<b>31.12</b>	<b>33.97</b>	<b>38.64</b>	<i>40.23</i>	<i>35.96</i>	<i>36.76</i>	<i>36.95</i>	<i>36.68</i>	<i>36.41</i>	<i>36.14</i>	<i>35.86</i>	<i>35.59</i>	<i>36.09</i>	<i>36.60</i>	<i>36.00</i>
WTI b Spot Average .....	<b>35.24</b>	<b>38.35</b>	<b>43.87</b>	<i>48.30</i>	<i>43.30</i>	<i>43.23</i>	<i>42.95</i>	<i>42.68</i>	<i>42.41</i>	<i>42.14</i>	<i>41.86</i>	<i>41.59</i>	<i>41.44</i>	<i>43.04</i>	<i>42.00</i>
<b>Natural Gas</b> (dollars per thousand cubic feet)															
Average Wellhead.....	<b>5.22</b>	<b>5.56</b>	<b>5.28</b>	<i>5.86</i>	<i>5.73</i>	<i>5.00</i>	<i>4.94</i>	<i>5.26</i>	<i>5.27</i>	<i>5.16</i>	<i>5.47</i>	<i>5.80</i>	<i>5.48</i>	<i>5.23</i>	<i>5.43</i>
Henry Hub Spot.....	<b>5.81</b>	<b>6.29</b>	<b>5.66</b>	<i>6.48</i>	<i>6.21</i>	<i>5.55</i>	<i>5.47</i>	<i>5.84</i>	<i>5.67</i>	<i>5.73</i>	<i>5.99</i>	<i>6.40</i>	<i>6.06</i>	<i>5.77</i>	<i>5.95</i>
<b>Petroleum Products</b> (dollars per gallon)															
Gasoline Retail c															
All Grades .....	<b>1.70</b>	<b>1.96</b>	<b>1.93</b>	<i>1.98</i>	<i>1.87</i>	<i>1.99</i>	<i>1.92</i>	<i>1.84</i>	<i>1.82</i>	<i>1.97</i>	<i>1.88</i>	<i>1.79</i>	<i>1.89</i>	<i>1.91</i>	<i>1.87</i>
Regular Unleaded .....	<b>1.65</b>	<b>1.92</b>	<b>1.89</b>	<i>1.94</i>	<i>1.82</i>	<i>1.94</i>	<i>1.88</i>	<i>1.80</i>	<i>1.78</i>	<i>1.93</i>	<i>1.84</i>	<i>1.75</i>	<i>1.85</i>	<i>1.86</i>	<i>1.83</i>
Distillate Fuel															
Retail Diesel .....	<b>1.59</b>	<b>1.72</b>	<b>1.83</b>	<i>2.10</i>	<i>1.92</i>	<i>1.86</i>	<i>1.83</i>	<i>1.88</i>	<i>1.90</i>	<i>1.88</i>	<i>1.82</i>	<i>1.86</i>	<i>1.81</i>	<i>1.87</i>	<i>1.86</i>
Wholesale Heating Oil.....	<b>0.95</b>	<b>1.00</b>	<b>1.18</b>	<i>1.33</i>	<i>1.21</i>	<i>1.16</i>	<i>1.15</i>	<i>1.21</i>	<i>1.23</i>	<i>1.16</i>	<i>1.13</i>	<i>1.19</i>	<i>1.12</i>	<i>1.19</i>	<i>1.18</i>
Retail Heating Oil .....	<b>1.42</b>	<b>1.41</b>	<b>1.51</b>	<i>1.85</i>	<i>1.80</i>	<i>1.65</i>	<i>1.55</i>	<i>1.69</i>	<i>1.76</i>	<i>1.64</i>	<i>1.54</i>	<i>1.65</i>	<i>1.56</i>	<i>1.68</i>	<i>1.65</i>
No. 6 Residual Fuel Oil, Retail <sup>d</sup> .....	<b>0.70</b>	<b>0.72</b>	<b>0.74</b>	<i>0.80</i>	<i>0.74</i>	<i>0.72</i>	<i>0.74</i>	<i>0.76</i>	<i>0.77</i>	<i>0.74</i>	<i>0.75</i>	<i>0.77</i>	<i>0.74</i>	<i>0.74</i>	<i>0.76</i>
<b>Electric Power Sector</b> (dollars per million Btu)															
Coal .....	<b>1.30</b>	<b>1.32</b>	<b>1.37</b>	<i>1.36</i>	<i>1.38</i>	<i>1.38</i>	<i>1.37</i>	<i>1.36</i>	<i>1.39</i>	<i>1.39</i>	<i>1.37</i>	<i>1.37</i>	<i>1.34</i>	<i>1.37</i>	<i>1.38</i>
Heavy Fuel Oil e .....	<b>4.42</b>	<b>4.81</b>	<b>4.86</b>	<i>4.88</i>	<i>4.22</i>	<i>4.70</i>	<i>4.92</i>	<i>5.12</i>	<i>4.37</i>	<i>4.76</i>	<i>5.15</i>	<i>5.19</i>	<i>4.72</i>	<i>4.71</i>	<i>4.85</i>
Natural Gas .....	<b>5.71</b>	<b>6.06</b>	<b>5.77</b>	<i>6.14</i>	<i>6.27</i>	<i>5.40</i>	<i>5.41</i>	<i>5.83</i>	<i>5.91</i>	<i>5.65</i>	<i>5.88</i>	<i>6.20</i>	<i>5.91</i>	<i>5.67</i>	<i>5.90</i>
<b>Other Residential</b>															
Natural Gas															
(dollars per thousand cubic feet).....	<b>9.82</b>	<b>11.21</b>	<b>13.48</b>	<i>11.16</i>	<i>10.54</i>	<i>11.01</i>	<i>12.98</i>	<i>10.54</i>	<i>9.93</i>	<i>11.14</i>	<i>12.97</i>	<i>11.12</i>	<i>10.68</i>	<i>10.79</i>	<i>10.68</i>
Electricity															
(cents per kilowatthour).....	<b>8.37</b>	<b>9.09</b>	<b>9.39</b>	<i>8.88</i>	<i>8.63</i>	<i>9.32</i>	<i>9.52</i>	<i>9.05</i>	<i>8.82</i>	<i>9.45</i>	<i>9.66</i>	<i>9.17</i>	<i>8.94</i>	<i>9.14</i>	<i>9.29</i>

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

<sup>b</sup>West Texas Intermediate.

<sup>c</sup>Average self-service cash prices.

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

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

Notes: Prices exclude taxes, except prices for gasoline, residential natural gas, and diesel. 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
<b>Supply</b>															
Crude Oil Supply															
Domestic Production <sup>a</sup> .....	<b>5.62</b>	<b>5.53</b>	<b>5.33</b>	<i>5.28</i>	<i>5.48</i>	<i>5.53</i>	<i>5.58</i>	<i>5.73</i>	<i>5.79</i>	<i>5.79</i>	<i>5.70</i>	<i>5.75</i>	<i>5.44</i>	<i>5.58</i>	<i>5.76</i>
Alaska .....	<b>0.96</b>	<b>0.94</b>	<b>0.88</b>	<i>0.99</i>	<i>0.97</i>	<i>0.91</i>	<i>0.82</i>	<i>0.93</i>	<i>0.94</i>	<i>0.89</i>	<i>0.84</i>	<i>0.88</i>	<i>0.94</i>	<i>0.91</i>	<i>0.89</i>
Lower 48 .....	<b>4.65</b>	<b>4.59</b>	<b>4.44</b>	<i>4.29</i>	<i>4.51</i>	<i>4.62</i>	<i>4.76</i>	<i>4.80</i>	<i>4.85</i>	<i>4.90</i>	<i>4.86</i>	<i>4.87</i>	<i>4.49</i>	<i>4.68</i>	<i>4.87</i>
Net Commercial Imports <sup>b</sup> .....	<b>9.55</b>	<b>10.26</b>	<b>10.12</b>	<i>10.26</i>	<i>10.02</i>	<i>10.53</i>	<i>10.20</i>	<i>9.87</i>	<i>9.75</i>	<i>10.40</i>	<i>10.30</i>	<i>10.06</i>	<i>10.05</i>	<i>10.15</i>	<i>10.13</i>
Net SPR Withdrawals .....	<b>-0.16</b>	<b>-0.11</b>	<b>-0.13</b>	<i>-0.04</i>	<i>-0.15</i>	<i>-0.10</i>	<i>-0.03</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>-0.11</i>	<i>-0.07</i>	<i>0.00</i>
Net Commercial Withdrawals.....	<b>-0.27</b>	<b>-0.12</b>	<b>0.33</b>	<i>-0.19</i>	<i>-0.20</i>	<i>0.05</i>	<i>0.18</i>	<i>-0.02</i>	<i>-0.21</i>	<i>0.02</i>	<i>0.17</i>	<i>0.02</i>	<i>-0.06</i>	<i>0.00</i>	<i>0.00</i>
Product Supplied and Losses .....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>
Unaccounted-for Crude Oil .....	<b>0.05</b>	<b>0.36</b>	<b>0.11</b>	<i>0.11</i>	<i>0.08</i>	<i>0.14</i>	<i>0.09</i>	<i>0.04</i>	<i>0.09</i>	<i>0.12</i>	<i>0.07</i>	<i>0.02</i>	<i>0.16</i>	<i>0.08</i>	<i>0.08</i>
Total Crude Oil Supply.....	<b>14.78</b>	<b>15.92</b>	<b>15.76</b>	<i>15.42</i>	<i>15.22</i>	<i>16.14</i>	<i>16.02</i>	<i>15.62</i>	<i>15.42</i>	<i>16.33</i>	<i>16.25</i>	<i>15.85</i>	<i>15.47</i>	<i>15.75</i>	<i>15.97</i>
Other Supply															
NGL Production .....	<b>1.81</b>	<b>1.77</b>	<b>1.82</b>	<i>1.80</i>	<i>1.83</i>	<i>1.80</i>	<i>1.80</i>	<i>1.85</i>	<i>1.86</i>	<i>1.82</i>	<i>1.82</i>	<i>1.85</i>	<i>1.80</i>	<i>1.82</i>	<i>1.84</i>
Other Hydrocarbon and Alcohol Inputs.....	<b>0.42</b>	<b>0.43</b>	<b>0.43</b>	<i>0.44</i>	<i>0.43</i>	<i>0.42</i>	<i>0.43</i>	<i>0.42</i>	<i>0.43</i>	<i>0.42</i>	<i>0.44</i>	<i>0.43</i>	<i>0.43</i>	<i>0.43</i>	<i>0.43</i>
Crude Oil Product Supplied .....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>
Processing Gain.....	<b>1.02</b>	<b>1.02</b>	<b>0.99</b>	<i>1.01</i>	<i>0.99</i>	<i>0.99</i>	<i>0.99</i>	<i>1.00</i>	<i>1.01</i>	<i>1.00</i>	<i>0.99</i>	<i>1.00</i>	<i>1.01</i>	<i>0.99</i>	<i>1.00</i>
Net Product Imports <sup>c</sup> .....	<b>1.89</b>	<b>1.57</b>	<b>1.97</b>	<i>1.76</i>	<i>2.01</i>	<i>1.95</i>	<i>1.94</i>	<i>1.76</i>	<i>2.19</i>	<i>2.08</i>	<i>2.11</i>	<i>1.89</i>	<i>1.80</i>	<i>1.91</i>	<i>2.07</i>
Product Stock Withdrawn or Added (-) ..	<b>0.45</b>	<b>-0.46</b>	<b>-0.40</b>	<i>0.30</i>	<i>0.42</i>	<i>-0.62</i>	<i>-0.16</i>	<i>0.34</i>	<i>0.44</i>	<i>-0.63</i>	<i>-0.18</i>	<i>0.36</i>	<i>-0.03</i>	<i>-0.01</i>	<i>0.00</i>
Total Supply .....	<b>20.37</b>	<b>20.25</b>	<b>20.58</b>	<i>20.73</i>	<i>20.89</i>	<i>20.68</i>	<i>21.02</i>	<i>21.00</i>	<i>21.35</i>	<i>21.03</i>	<i>21.43</i>	<i>21.39</i>	<i>20.48</i>	<i>20.90</i>	<i>21.30</i>
<b>Demand</b>															
Motor Gasoline.....	<b>8.78</b>	<b>9.16</b>	<b>9.17</b>	<i>9.16</i>	<i>8.97</i>	<i>9.34</i>	<i>9.42</i>	<i>9.23</i>	<i>9.14</i>	<i>9.52</i>	<i>9.68</i>	<i>9.48</i>	<i>9.07</i>	<i>9.24</i>	<i>9.46</i>
Jet Fuel .....	<b>1.57</b>	<b>1.60</b>	<b>1.64</b>	<i>1.65</i>	<i>1.61</i>	<i>1.63</i>	<i>1.69</i>	<i>1.70</i>	<i>1.65</i>	<i>1.66</i>	<i>1.73</i>	<i>1.72</i>	<i>1.62</i>	<i>1.66</i>	<i>1.69</i>
Distillate Fuel Oil .....	<b>4.25</b>	<b>3.94</b>	<b>3.93</b>	<i>4.18</i>	<i>4.41</i>	<i>4.09</i>	<i>4.02</i>	<i>4.19</i>	<i>4.49</i>	<i>4.10</i>	<i>4.06</i>	<i>4.27</i>	<i>4.07</i>	<i>4.18</i>	<i>4.23</i>
Residual Fuel Oil.....	<b>0.85</b>	<b>0.74</b>	<b>0.77</b>	<i>0.80</i>	<i>0.98</i>	<i>0.75</i>	<i>0.84</i>	<i>0.83</i>	<i>0.99</i>	<i>0.81</i>	<i>0.86</i>	<i>0.84</i>	<i>0.79</i>	<i>0.85</i>	<i>0.88</i>
Other Oils <sup>d</sup> .....	<b>4.91</b>	<b>4.81</b>	<b>5.07</b>	<i>4.94</i>	<i>4.92</i>	<i>4.87</i>	<i>5.06</i>	<i>5.03</i>	<i>5.07</i>	<i>4.94</i>	<i>5.10</i>	<i>5.06</i>	<i>4.93</i>	<i>4.97</i>	<i>5.04</i>
Total Demand .....	<b>20.36</b>	<b>20.25</b>	<b>20.58</b>	<i>20.74</i>	<i>20.88</i>	<i>20.68</i>	<i>21.02</i>	<i>20.99</i>	<i>21.35</i>	<i>21.02</i>	<i>21.42</i>	<i>21.38</i>	<i>20.48</i>	<i>20.89</i>	<i>21.29</i>
<b>Total Petroleum Net Imports .....</b>	<b>11.44</b>	<b>11.82</b>	<b>12.10</b>	<i>12.02</i>	<i>12.02</i>	<i>12.48</i>	<i>12.14</i>	<i>11.64</i>	<i>11.95</i>	<i>12.49</i>	<i>12.41</i>	<i>11.95</i>	<i>11.85</i>	<i>12.07</i>	<i>12.20</i>
<b>Closing Stocks (million barrels)</b>															
Crude Oil (excluding SPR).....	<b>294</b>	<b>304</b>	<b>274</b>	<i>292</i>	<i>310</i>	<i>306</i>	<i>289</i>	<i>290</i>	<i>310</i>	<i>308</i>	<i>292</i>	<i>291</i>	<i>292</i>	<i>290</i>	<i>291</i>
Total Motor Gasoline.....	<b>201</b>	<b>209</b>	<b>206</b>	<i>214</i>	<i>214</i>	<i>221</i>	<i>209</i>	<i>212</i>	<i>213</i>	<i>219</i>	<i>208</i>	<i>209</i>	<i>214</i>	<i>212</i>	<i>209</i>
Finished Motor Gasoline.....	<b>133</b>	<b>141</b>	<b>136</b>	<i>144</i>	<i>140</i>	<i>150</i>	<i>140</i>	<i>142</i>	<i>137</i>	<i>147</i>	<i>138</i>	<i>139</i>	<i>144</i>	<i>142</i>	<i>139</i>
Blending Components.....	<b>68</b>	<b>68</b>	<b>71</b>	<i>71</i>	<i>75</i>	<i>71</i>	<i>70</i>	<i>71</i>	<i>76</i>	<i>72</i>	<i>71</i>	<i>71</i>	<i>71</i>	<i>71</i>	<i>71</i>
Jet Fuel .....	<b>36</b>	<b>39</b>	<b>41</b>	<i>41</i>	<i>38</i>	<i>40</i>	<i>41</i>	<i>41</i>	<i>39</i>	<i>40</i>	<i>42</i>	<i>41</i>	<i>41</i>	<i>41</i>	<i>41</i>
Distillate Fuel Oil .....	<b>104</b>	<b>114</b>	<b>123</b>	<i>121</i>	<i>97</i>	<i>109</i>	<i>121</i>	<i>126</i>	<i>100</i>	<i>112</i>	<i>124</i>	<i>130</i>	<i>121</i>	<i>126</i>	<i>130</i>
Residual Fuel Oil.....	<b>39</b>	<b>38</b>	<b>34</b>	<i>41</i>	<i>39</i>	<i>39</i>	<i>36</i>	<i>37</i>	<i>36</i>	<i>37</i>	<i>34</i>	<i>37</i>	<i>41</i>	<i>37</i>	<i>37</i>
Other Oils <sup>e</sup> .....	<b>240</b>	<b>263</b>	<b>294</b>	<i>253</i>	<i>244</i>	<i>280</i>	<i>297</i>	<i>256</i>	<i>247</i>	<i>282</i>	<i>298</i>	<i>257</i>	<i>253</i>	<i>256</i>	<i>257</i>
Total Stocks (excluding SPR) .....	<b>914</b>	<b>966</b>	<b>973</b>	<i>963</i>	<i>943</i>	<i>995</i>	<i>993</i>	<i>963</i>	<i>943</i>	<i>998</i>	<i>999</i>	<i>964</i>	<i>963</i>	<i>963</i>	<i>964</i>
Crude Oil in SPR.....	<b>652</b>	<b>662</b>	<b>670</b>	<i>674</i>	<i>688</i>	<i>696</i>	<i>699</i>	<i>699</i>	<i>699</i>	<i>699</i>	<i>699</i>	<i>699</i>	<i>674</i>	<i>699</i>	<i>699</i>
Heating Oil Reserve.....	<b>2</b>	<b>2</b>	<b>2</b>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>
Total Stocks (incl SPR and HOR) .....	<b>1568</b>	<b>1631</b>	<b>1645</b>	<i>1639</i>	<i>1633</i>	<i>1693</i>	<i>1694</i>	<i>1665</i>	<i>1644</i>	<i>1699</i>	<i>1700</i>	<i>1666</i>	<i>1639</i>	<i>1665</i>	<i>1666</i>

<sup>a</sup>Includes lease condensate.<sup>b</sup>Net imports equals gross imports minus exports.<sup>c</sup>Includes finished petroleum products, unfinished oils, gasoline blending components, and natural gas plant liquids for processing.<sup>d</sup>Includes crude oil product supplied, natural gas liquids, liquefied refinery gas, other liquids, and all finished petroleum products except motor gasoline, jet fuel, distillate, and residual fuel oil.<sup>e</sup>Includes stocks of all other oils, such as aviation gasoline, kerosene, natural gas liquids (including ethane), aviation gasoline blending components, naphtha and other oils for petrochemical feedstock use, special naphthas, lube oils, wax, coke, asphalt, road oil, and miscellaneous oils.

SPR: Strategic Petroleum Reserve

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<sup>a</sup> for the STIFS<sup>b</sup>**  
(Percent Deviation Base Case)

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

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

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

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

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

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

<sup>f</sup>Response during fall/winter period(first and fourth calendar quarters) refers to change in heating degree-days. Response during the spring/summer period (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 .....	6.222	5.278	0.944	0.043	0.901
Lower 48 States.....	5.341	4.403	0.938	0.040	0.898
Alaska.....	0.882	0.876	0.006	0.003	0.003

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
<b>Supply</b>															
Total Dry Gas Production.....	<b>4.76</b>	<b>4.68</b>	<b>4.69</b>	4.64	4.71	4.73	4.79	4.85	4.74	4.73	4.81	4.88	18.76	19.07	19.16
Gross Imports.....	<b>1.07</b>	<b>0.97</b>	<b>1.03</b>	1.05	1.10	1.05	1.08	1.08	1.14	1.13	1.19	1.16	4.12	4.32	4.62
Pipeline.....	<b>0.91</b>	<b>0.82</b>	<b>0.85</b>	0.88	0.91	0.83	0.85	0.89	0.88	0.82	0.84	0.89	3.46	3.48	3.43
LNG.....	<b>0.15</b>	<b>0.16</b>	<b>0.18</b>	0.17	0.19	0.22	0.23	0.19	0.26	0.31	0.35	0.27	0.66	0.84	1.19
Gross Exports.....	<b>0.20</b>	<b>0.16</b>	<b>0.16</b>	0.19	0.18	0.18	0.19	0.21	0.18	0.19	0.20	0.22	0.71	0.76	0.79
Net Imports.....	<b>0.86</b>	<b>0.81</b>	<b>0.87</b>	0.87	0.92	0.87	0.89	0.87	0.96	0.94	0.99	0.94	3.41	3.56	3.83
Supplemental Gaseous Fuels.....	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.06	0.07	0.07
Total New Supply.....	<b>5.64</b>	<b>5.50</b>	<b>5.56</b>	5.52	5.65	5.61	5.69	5.74	5.72	5.69	5.82	5.84	22.23	22.69	23.06
Working Gas in Storage															
Opening.....	<b>2.56</b>	<b>1.06</b>	<b>2.02</b>	3.06	2.70	1.27	2.16	3.08	2.62	1.02	1.88	2.84	2.56	2.70	2.62
Closing.....	<b>1.06</b>	<b>2.02</b>	<b>3.06</b>	2.70	1.27	2.16	3.08	2.62	1.02	1.88	2.84	2.44	2.70	2.62	2.44
Net Withdrawals.....	<b>1.51</b>	<b>-0.96</b>	<b>-1.03</b>	0.36	1.43	-0.89	-0.92	0.45	1.61	-0.86	-0.96	0.40	-0.13	0.07	0.18
Total Supply.....	<b>7.14</b>	<b>4.54</b>	<b>4.53</b>	5.88	7.07	4.72	4.78	6.20	7.32	4.82	4.85	6.24	22.10	22.77	23.24
Balancing Item <sup>a</sup> .....	<b>0.06</b>	<b>0.15</b>	<b>0.00</b>	-0.40	0.06	0.15	-0.01	-0.40	0.06	0.15	-0.01	-0.40	-0.19	-0.20	-0.20
Total Primary Supply.....	<b>7.20</b>	<b>4.69</b>	<b>4.53</b>	5.48	7.13	4.87	4.77	5.80	7.38	4.98	4.85	5.85	21.90	22.57	23.04
<b>Demand</b>															
Residential.....	<b>2.42</b>	<b>0.74</b>	<b>0.37</b>	1.34	2.34	0.80	0.36	1.45	2.45	0.81	0.36	1.45	4.88	4.95	5.06
Commercial.....	<b>1.30</b>	<b>0.54</b>	<b>0.36</b>	0.82	1.32	0.58	0.38	0.89	1.32	0.59	0.39	0.88	3.03	3.17	3.19
Industrial.....	<b>2.22</b>	<b>1.96</b>	<b>1.96</b>	2.07	2.19	2.03	2.04	2.15	2.28	2.09	2.08	2.17	8.21	8.42	8.63
Lease and Plant Fuel.....	<b>0.28</b>	<b>0.28</b>	<b>0.28</b>	0.27	0.28	0.28	0.28	0.29	0.28	0.28	0.28	0.29	1.10	1.12	1.12
Other Industrial.....	<b>1.94</b>	<b>1.69</b>	<b>1.69</b>	1.79	1.92	1.75	1.76	1.87	2.00	1.82	1.80	1.89	7.10	7.30	7.51
CHP <sup>b</sup> .....	<b>0.27</b>	<b>0.29</b>	<b>0.31</b>	0.26	0.29	0.33	0.35	0.27	0.30	0.34	0.36	0.28	1.14	1.25	1.28
Non-CHP.....	<b>1.66</b>	<b>1.39</b>	<b>1.38</b>	1.53	1.63	1.42	1.41	1.59	1.70	1.48	1.45	1.61	5.96	6.05	6.23
Transportation <sup>c</sup> .....	<b>0.21</b>	<b>0.14</b>	<b>0.13</b>	0.16	0.21	0.14	0.14	0.16	0.22	0.14	0.14	0.16	0.64	0.65	0.66
Electric Power <sup>d</sup> .....	<b>1.05</b>	<b>1.31</b>	<b>1.70</b>	1.09	1.06	1.32	1.85	1.15	1.11	1.34	1.87	1.18	5.15	5.37	5.51
Total Demand.....	<b>7.20</b>	<b>4.69</b>	<b>4.53</b>	5.48	7.13	4.87	4.77	5.80	7.38	4.98	4.85	5.85	21.90	22.57	23.04

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

<sup>b</sup>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.

<sup>c</sup>Pipeline fuel use plus natural gas used as vehicle fuel.

<sup>d</sup>Natural 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
<b>Supply</b>															
Production .....	<b>274.6</b>	<b>273.9</b>	<b>280.7</b>	282.3	287.8	271.8	294.1	289.8	298.2	279.5	298.6	297.4	1111.4	1143.4	1173.6
Appalachia .....	<b>98.3</b>	<b>97.6</b>	<b>94.9</b>	99.9	101.6	92.5	95.9	97.3	105.3	95.2	97.4	99.8	390.7	387.3	397.6
Interior .....	<b>36.2</b>	<b>36.1</b>	<b>38.1</b>	37.0	33.6	34.8	36.2	34.9	34.9	35.8	36.8	35.8	147.5	139.6	143.2
Western .....	<b>140.0</b>	<b>140.2</b>	<b>147.7</b>	145.3	152.5	144.5	162.0	157.6	158.1	148.6	164.4	161.7	573.3	616.6	632.8
Primary Stock Levels <sup>a</sup>															
Opening .....	<b>38.3</b>	<b>36.6</b>	<b>35.3</b>	31.9	34.4	34.9	35.9	33.6	34.6	35.1	35.3	33.2	38.3	34.4	34.6
Closing .....	<b>36.6</b>	<b>35.3</b>	<b>31.9</b>	34.4	34.9	35.9	33.6	34.6	35.1	35.3	33.2	35.1	34.4	34.6	35.1
Net Withdrawals .....	<b>1.7</b>	<b>1.3</b>	<b>3.4</b>	-2.4	-0.5	-1.1	2.3	-0.9	-0.5	-0.2	2.1	-1.9	3.9	-0.2	-0.5
Imports .....	<b>5.3</b>	<b>6.9</b>	<b>7.8</b>	7.1	6.1	7.2	8.6	8.3	6.5	8.5	9.8	8.2	27.0	30.1	33.0
Exports .....	<b>9.7</b>	<b>15.3</b>	<b>12.2</b>	10.1	12.8	10.5	11.8	12.3	12.4	12.5	12.3	12.0	47.2	47.3	49.3
Total Net Domestic Supply .....	<b>271.9</b>	<b>266.9</b>	<b>279.6</b>	276.8	280.6	267.4	293.2	284.8	291.7	275.3	298.2	291.6	1095.2	1126.0	1156.9
Secondary Stock Levels <sup>b</sup>															
Opening .....	<b>127.0</b>	<b>118.5</b>	<b>122.7</b>	113.0	109.6	111.5	118.3	111.5	115.1	118.7	127.5	118.7	127.0	109.6	115.1
Closing .....	<b>118.5</b>	<b>122.7</b>	<b>113.0</b>	109.6	111.5	118.3	111.5	115.1	118.7	127.5	118.7	122.2	109.6	115.1	122.2
Net Withdrawals .....	<b>8.5</b>	<b>-4.2</b>	<b>9.7</b>	3.3	-1.9	-6.8	6.8	-3.6	-3.6	-8.8	8.8	-3.5	17.3	-5.4	-7.1
Waste Coal Supplied to IPPs <sup>c</sup> .....	<b>2.9</b>	<b>2.9</b>	<b>2.9</b>	3.8	3.8	3.8	3.7	3.8	2.9	2.9	2.9	2.9	12.5	15.1	11.6
Total Supply .....	<b>283.3</b>	<b>265.6</b>	<b>292.2</b>	283.9	282.5	264.4	303.8	285.0	291.0	269.4	309.9	291.0	1125.0	1135.6	1161.4
<b>Demand</b>															
Coke Plants .....	<b>5.9</b>	<b>5.9</b>	<b>5.9</b>	6.4	6.2	6.5	6.7	6.1	6.2	6.3	6.6	5.9	24.2	25.5	25.0
Electric Power Sector <sup>d</sup> .....	<b>253.6</b>	<b>238.5</b>	<b>269.9</b>	251.4	258.6	242.6	281.2	260.9	267.4	248.1	287.8	267.5	1013.5	1043.4	1070.8
Retail and General Industry .....	<b>17.4</b>	<b>15.5</b>	<b>15.6</b>	17.9	17.7	15.2	15.8	18.0	17.4	14.9	15.5	17.7	66.5	66.7	65.6
Total Demand <sup>e</sup> .....	<b>276.9</b>	<b>259.9</b>	<b>291.5</b>	275.8	282.5	264.4	303.8	285.0	291.0	269.4	309.9	291.0	1104.1	1135.6	1161.4
Discrepancy <sup>f</sup> .....	<b>6.4</b>	<b>5.7</b>	<b>0.8</b>	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	0.0	0.0

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

<sup>b</sup>Secondary stocks are held by users. It includes an estimate of stocks held at utility plants sold to nonutility generators.

<sup>c</sup>Estimated independent power producers' (IPPs) consumption of waste coal. This item includes waste coal and coal slurry reprocessed into briquettes.

<sup>d</sup>Coal used for electricity generation and (a limited amount of) useful thermal output by electric utilities and independent power producers.

<sup>e</sup>Total Demand includes estimated IPP consumption.

<sup>f</sup>The 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 <sup>a</sup>															
Coal .....	<b>492.9</b>	<b>460.8</b>	<b>516.9</b>	484.7	497.2	465.5	539.2	500.0	511.6	474.2	550.0	510.3	1955.2	2001.9	2046.2
Petroleum .....	<b>31.6</b>	<b>28.2</b>	<b>29.9</b>	20.4	35.6	23.2	35.3	26.4	38.3	29.2	39.1	29.1	110.2	120.5	135.7
Natural Gas .....	<b>121.9</b>	<b>150.9</b>	<b>195.9</b>	129.6	127.9	152.8	213.0	139.4	136.4	157.5	218.6	144.3	598.3	633.2	656.9
Nuclear .....	<b>198.2</b>	<b>191.3</b>	<b>209.0</b>	187.1	196.7	192.9	207.5	192.5	197.4	193.4	208.2	193.2	785.6	789.7	792.1
Hydroelectric.....	<b>63.9</b>	<b>67.3</b>	<b>62.1</b>	64.6	70.2	84.2	67.5	65.4	70.8	85.7	69.2	64.4	257.9	287.3	290.1
Other <sup>b</sup> .....	<b>14.6</b>	<b>15.7</b>	<b>15.7</b>	15.2	14.8	15.3	16.2	16.2	15.6	16.0	16.9	16.9	61.2	62.5	65.3
Subtotal .....	<b>923.1</b>	<b>914.3</b>	<b>1029.4</b>	901.6	942.5	933.9	1078.8	939.8	970.2	956.0	1102.0	958.2	3768.4	3895.0	3986.4
Other Sectors <sup>c</sup> .....	<b>39.3</b>	<b>40.0</b>	<b>41.4</b>	40.9	40.7	41.1	43.5	41.9	41.5	41.7	43.9	42.0	161.6	167.3	169.1
Total Generation.....	<b>962.5</b>	<b>954.3</b>	<b>1070.8</b>	942.4	983.2	975.0	1122.3	981.8	1011.7	997.7	1145.8	1000.2	3930.0	4062.3	4155.5
Net Imports .....	<b>-0.9</b>	<b>0.8</b>	<b>7.3</b>	3.5	2.2	0.9	3.4	0.6	0.2	-1.0	1.7	-0.8	10.7	7.1	0.2
Total Supply.....	<b>961.6</b>	<b>955.1</b>	<b>1078.1</b>	945.9	985.5	975.9	1125.7	982.3	1011.9	996.7	1147.5	999.5	3940.6	4069.4	4155.6
Losses and Unaccounted for <sup>d</sup> ....	<b>45.7</b>	<b>61.5</b>	<b>58.6</b>	49.5	46.8	62.7	61.2	50.6	48.1	64.0	62.4	51.4	215.4	221.2	226.0
Demand															
Retail Sales <sup>e</sup>															
Residential.....	<b>339.1</b>	<b>288.5</b>	<b>369.2</b>	296.0	342.1	291.0	379.9	307.7	352.4	298.7	389.6	316.0	1292.8	1320.7	1356.7
Commercial <sup>f</sup> .....	<b>288.3</b>	<b>300.8</b>	<b>338.2</b>	297.8	297.1	308.3	356.1	310.6	307.6	318.4	366.3	318.5	1225.2	1272.1	1310.8
Industrial.....	<b>243.3</b>	<b>258.5</b>	<b>264.5</b>	256.1	252.8	266.8	278.4	265.8	256.1	267.7	278.8	265.8	1022.4	1063.8	1068.4
Transportation <sup>g</sup> .....	<b>1.8</b>	<b>1.7</b>	<b>1.9</b>	1.2	1.7	1.7	2.1	1.3	1.8	1.8	2.1	1.3	6.6	6.8	7.0
Subtotal .....	<b>872.4</b>	<b>849.4</b>	<b>973.8</b>	851.3	893.7	867.8	1016.4	885.5	918.0	886.6	1036.7	901.7	3546.9	3663.5	3743.0
Other Use/Sales <sup>h</sup> .....	<b>43.4</b>	<b>44.1</b>	<b>45.7</b>	45.1	45.0	45.4	48.1	46.3	45.8	46.0	48.4	46.4	178.4	184.7	186.6
Total Demand.....	<b>915.9</b>	<b>893.5</b>	<b>1019.5</b>	896.4	938.6	913.2	1064.5	931.8	963.8	932.6	1085.2	948.1	3725.2	3848.2	3929.7

<sup>a</sup>Electric utilities and independent power producers.

<sup>b</sup>"Other" includes generation from other gaseous fuels, geothermal, wind, wood, waste, and solar sources.

<sup>c</sup>Electricity generation from combined heat and power (CHP) facilities and electricity-only plants in the industrial and commercial sectors.

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

<sup>e</sup>Total of retail electricity sales by electric utilities and power marketers.

<sup>f</sup>Commercial 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.

<sup>g</sup>Transportation 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.

<sup>h</sup>Defined 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 <sup>a</sup>															
Coal .....	<b>492.9</b>	<b>460.8</b>	<b>516.9</b>	<i>484.7</i>	<i>497.2</i>	<i>465.5</i>	<i>539.2</i>	<i>500.0</i>	<i>511.6</i>	<i>474.2</i>	<i>550.0</i>	<i>510.3</i>	<i>1955.2</i>	<i>2001.9</i>	<i>2046.2</i>
Petroleum .....	<b>31.6</b>	<b>28.2</b>	<b>29.9</b>	<i>20.4</i>	<i>35.6</i>	<i>23.2</i>	<i>35.3</i>	<i>26.4</i>	<i>38.3</i>	<i>29.2</i>	<i>39.1</i>	<i>29.1</i>	<i>110.2</i>	<i>120.5</i>	<i>135.7</i>
Natural Gas .....	<b>121.9</b>	<b>150.9</b>	<b>195.9</b>	<i>129.6</i>	<i>127.9</i>	<i>152.8</i>	<i>213.0</i>	<i>139.4</i>	<i>136.4</i>	<i>157.5</i>	<i>218.6</i>	<i>144.3</i>	<i>598.3</i>	<i>633.2</i>	<i>656.9</i>
Other <sup>b</sup> .....	<b>276.7</b>	<b>274.4</b>	<b>286.7</b>	<i>266.9</i>	<i>281.8</i>	<i>292.3</i>	<i>291.2</i>	<i>274.1</i>	<i>283.8</i>	<i>295.0</i>	<i>294.2</i>	<i>274.4</i>	<i>1104.7</i>	<i>1139.4</i>	<i>1147.5</i>
Subtotal .....	<b>923.1</b>	<b>914.3</b>	<b>1029.4</b>	<i>901.6</i>	<i>942.5</i>	<i>933.9</i>	<i>1078.8</i>	<i>939.8</i>	<i>970.2</i>	<i>956.0</i>	<i>1102.0</i>	<i>958.2</i>	<i>3768.4</i>	<i>3895.0</i>	<i>3986.4</i>
Commercial															
Coal .....	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<i>0.3</i>	<i>0.4</i>	<i>0.3</i>	<i>0.4</i>	<i>0.3</i>	<i>0.3</i>	<i>0.3</i>	<i>0.4</i>	<i>0.3</i>	<i>1.1</i>	<i>1.4</i>	<i>1.3</i>
Petroleum .....	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<i>0.1</i>	<i>0.2</i>	<i>0.1</i>	<i>0.1</i>	<i>0.1</i>	<i>0.2</i>	<i>0.1</i>	<i>0.1</i>	<i>0.1</i>	<i>0.5</i>	<i>0.6</i>	<i>0.6</i>
Natural Gas .....	<b>0.9</b>	<b>1.0</b>	<b>1.1</b>	<i>1.1</i>	<i>1.1</i>	<i>1.2</i>	<i>1.4</i>	<i>1.1</i>	<i>1.1</i>	<i>1.2</i>	<i>1.4</i>	<i>1.1</i>	<i>4.1</i>	<i>4.9</i>	<i>4.7</i>
Other <sup>b</sup> .....	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	<i>0.6</i>	<i>0.5</i>	<i>0.6</i>	<i>0.6</i>	<i>0.6</i>	<i>0.5</i>	<i>0.6</i>	<i>0.6</i>	<i>0.6</i>	<i>2.0</i>	<i>2.4</i>	<i>2.4</i>
Subtotal .....	<b>1.8</b>	<b>1.8</b>	<b>2.0</b>	<i>2.0</i>	<i>2.3</i>	<i>2.3</i>	<i>2.5</i>	<i>2.2</i>	<i>2.2</i>	<i>2.2</i>	<i>2.5</i>	<i>2.1</i>	<i>7.7</i>	<i>9.3</i>	<i>9.0</i>
Industrial															
Coal .....	<b>5.5</b>	<b>5.1</b>	<b>5.4</b>	<i>5.1</i>	<i>5.6</i>	<i>5.1</i>	<i>5.6</i>	<i>5.2</i>	<i>5.7</i>	<i>5.2</i>	<i>5.6</i>	<i>5.2</i>	<i>21.1</i>	<i>21.5</i>	<i>21.7</i>
Petroleum .....	<b>1.4</b>	<b>1.1</b>	<b>1.1</b>	<i>1.1</i>	<i>1.6</i>	<i>0.9</i>	<i>1.4</i>	<i>1.4</i>	<i>1.7</i>	<i>1.2</i>	<i>1.5</i>	<i>1.5</i>	<i>4.8</i>	<i>5.3</i>	<i>5.8</i>
Natural Gas .....	<b>18.3</b>	<b>19.8</b>	<b>20.5</b>	<i>17.4</i>	<i>19.5</i>	<i>22.2</i>	<i>23.3</i>	<i>18.1</i>	<i>20.2</i>	<i>22.6</i>	<i>23.6</i>	<i>18.3</i>	<i>75.9</i>	<i>83.1</i>	<i>84.7</i>
Other <sup>b</sup> .....	<b>12.4</b>	<b>12.1</b>	<b>12.4</b>	<i>15.2</i>	<i>11.8</i>	<i>10.6</i>	<i>10.7</i>	<i>15.0</i>	<i>11.8</i>	<i>10.6</i>	<i>10.6</i>	<i>14.8</i>	<i>52.1</i>	<i>48.2</i>	<i>47.8</i>
Subtotal .....	<b>37.5</b>	<b>38.1</b>	<b>39.4</b>	<i>38.8</i>	<i>38.5</i>	<i>38.8</i>	<i>41.0</i>	<i>39.8</i>	<i>39.3</i>	<i>39.5</i>	<i>41.4</i>	<i>39.9</i>	<i>153.9</i>	<i>158.1</i>	<i>160.1</i>

<sup>a</sup>Electric utilities and independent power producers.

<sup>b</sup>"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 <sup>a</sup>															
Coal .....	<b>5.16</b>	<b>4.85</b>	<b>5.49</b>	5.11	5.26	4.94	5.72	5.31	5.44	5.05	5.86	5.44	20.62	21.22	21.78
Petroleum .....	<b>0.34</b>	<b>0.30</b>	<b>0.32</b>	0.22	0.39	0.25	0.39	0.29	0.42	0.32	0.43	0.32	1.18	1.31	1.48
Natural Gas .....	<b>1.03</b>	<b>1.30</b>	<b>1.70</b>	1.08	1.05	1.31	1.84	1.14	1.11	1.34	1.86	1.17	5.11	5.34	5.47
Other <sup>b</sup> .....	<b>2.91</b>	<b>2.89</b>	<b>2.91</b>	2.85	3.00	3.10	3.10	2.92	3.02	3.13	3.13	2.93	11.55	12.12	12.21
Subtotal .....	<b>9.43</b>	<b>9.34</b>	<b>10.42</b>	9.26	9.69	9.60	11.05	9.66	9.99	9.83	11.26	9.85	38.45	40.00	40.95
Commercial															
Coal .....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02
Petroleum .....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	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 .....	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.05	0.05
Other <sup>b</sup> .....	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.04	0.04
Subtotal .....	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.09	0.11	0.11
Industrial															
Coal .....	<b>0.07</b>	<b>0.07</b>	<b>0.09</b>	0.08	0.08	0.08	0.09	0.08	0.09	0.08	0.09	0.08	0.32	0.33	0.34
Petroleum .....	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.06	0.07	0.08
Natural Gas .....	<b>0.16</b>	<b>0.18</b>	<b>0.21</b>	0.16	0.18	0.21	0.22	0.17	0.19	0.22	0.23	0.17	0.71	0.79	0.81
Other <sup>b</sup> .....	<b>0.17</b>	<b>0.14</b>	<b>0.13</b>	0.21	0.17	0.16	0.16	0.22	0.18	0.16	0.16	0.21	0.66	0.71	0.70
Subtotal .....	<b>0.42</b>	<b>0.41</b>	<b>0.45</b>	0.47	0.46	0.47	0.49	0.49	0.48	0.47	0.49	0.49	1.75	1.91	1.93
Total .....	<b>9.87</b>	<b>9.77</b>	<b>10.90</b>	9.75	10.18	10.10	11.57	10.17	10.49	10.33	11.86	10.37	40.29	42.02	42.99
(Physical Units)															
Electric Power <sup>a</sup>															
Coal (mmst) .....	<b>253.0</b>	<b>238.1</b>	<b>269.5</b>	250.9	258.0	242.2	280.8	260.4	266.8	247.6	287.3	266.9	1011.5	1041.3	1068.7
Petroleum (mmbd) .....	<b>0.60</b>	<b>0.53</b>	<b>0.56</b>	0.39	0.69	0.45	0.68	0.51	0.75	0.57	0.75	0.56	0.52	0.58	0.66
Natural Gas (tcf) .....	<b>1.00</b>	<b>1.27</b>	<b>1.66</b>	1.05	1.02	1.28	1.79	1.11	1.08	1.30	1.82	1.14	4.98	5.21	5.34
Commercial															
Coal (mmst) .....	<b>0.14</b>	<b>0.13</b>	<b>0.16</b>	0.14	0.18	0.16	0.20	0.15	0.17	0.16	0.19	0.15	0.58	0.69	0.67
Petroleum (mmbd) .....	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas (tcf) .....	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.05	0.05
Industrial															
Coal (mmst) .....	<b>3.03</b>	<b>3.07</b>	<b>3.96</b>	3.15	3.52	3.35	3.66	3.33	3.68	3.36	3.65	3.38	13.20	13.87	14.07
Petroleum (mmbd) .....	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	0.03	0.04	0.02	0.03	0.04	0.04	0.03	0.04	0.04	0.03	0.03	0.04
Natural Gas (tcf) .....	<b>0.15</b>	<b>0.18</b>	<b>0.20</b>	0.16	0.18	0.21	0.22	0.17	0.19	0.21	0.22	0.17	0.69	0.77	0.78

<sup>a</sup>Electric utilities and independent power producers.

<sup>b</sup>"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
<b>Electricity Sector</b>							
Hydroelectric Power .....	<b>2.722</b>	<i>2.692</i>	<i>2.998</i>	<i>3.027</i>	-1.1	11.4	1.0
Geothermal, Solar and Wind Energy ....	<b>0.390</b>	<i>0.448</i>	<i>0.456</i>	<i>0.477</i>	14.9	1.8	4.6
Biofuels .....	<b>0.507</b>	<i>0.513</i>	<i>0.526</i>	<i>0.541</i>	1.2	2.5	2.9
Total .....	<b>3.619</b>	<i>3.653</i>	<i>3.981</i>	<i>4.045</i>	0.9	9.0	1.6
<b>Other Sectors</b>							
Residential and Commercial .....	<b>0.532</b>	<i>0.589</i>	<i>0.626</i>	<i>0.639</i>	10.7	6.3	2.1
Residential .....	<b>0.436</b>	<i>0.455</i>	<i>0.474</i>	<i>0.493</i>	4.4	4.2	4.0
Commercial .....	<b>0.097</b>	<i>0.134</i>	<i>0.152</i>	<i>0.146</i>	38.1	13.4	-3.9
Industrial.....	<b>1.800</b>	<i>1.897</i>	<i>1.834</i>	<i>1.819</i>	5.4	-3.3	-0.8
Transportation.....	<b>0.237</b>	<i>0.296</i>	<i>0.300</i>	<i>0.311</i>	24.9	1.4	3.7
Total .....	<b>2.570</b>	<i>2.782</i>	<i>2.761</i>	<i>2.769</i>	8.2	-0.8	0.3
Total Renewable Energy Demand .....	<b>6.189</b>	<i>6.436</i>	<i>6.741</i>	<i>6.814</i>	4.0	4.7	1.1

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

<sup>b</sup>Also includes photovoltaic and solar thermal energy. Sharp declines since 1998 in the electric utility sector and corresponding increases in the nonutility sector for this category mostly reflect sale of geothermal facilities to the nonutility sector.

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

<sup>d</sup>Renewable 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.

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

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

<sup>g</sup>Ethanol 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
<b>Real Gross Domestic Product (GDP)</b> (billion chained 2000 dollars) .....	<b>7337</b>	<b>7533</b>	<b>7835</b>	<b>8032</b>	<b>8329</b>	<b>8704</b>	<b>9067</b>	<b>9470</b>	<b>9817</b>	<b>9891</b>	<b>10075</b>	<b>10381</b>	10843	11228	11581
Imported Crude Oil Price <sup>a</sup> (nominal dollars per barrel) .....	<b>18.20</b>	<b>16.13</b>	<b>15.53</b>	<b>17.14</b>	<b>20.62</b>	<b>18.49</b>	<b>12.07</b>	<b>17.26</b>	<b>27.72</b>	<b>22.00</b>	<b>23.71</b>	<b>27.74</b>	36.09	36.60	36.00
<b>Petroleum Supply</b>															
Crude Oil Production <sup>b</sup> (million barrels per day) .....	<b>7.17</b>	<b>6.85</b>	<b>6.66</b>	<b>6.56</b>	<b>6.46</b>	<b>6.45</b>	<b>6.25</b>	<b>5.88</b>	<b>5.82</b>	<b>5.80</b>	<b>5.75</b>	<b>5.68</b>	5.44	5.58	5.76
Total Petroleum Net Imports (including SPR) (million barrels per day) .....	<b>6.94</b>	<b>7.62</b>	<b>8.05</b>	<b>7.89</b>	<b>8.50</b>	<b>9.16</b>	<b>9.76</b>	<b>9.91</b>	<b>10.42</b>	<b>10.90</b>	<b>10.54</b>	<b>11.24</b>	11.85	12.07	12.20
<b>Energy Demand</b>															
U.S. Petroleum (million barrels per day) .....	<b>17.10</b>	<b>17.24</b>	<b>17.72</b>	<b>17.72</b>	<b>18.31</b>	<b>18.62</b>	<b>18.92</b>	<b>19.52</b>	<b>19.70</b>	<b>19.65</b>	<b>19.76</b>	<b>20.03</b>	20.48	20.89	21.29
Natural Gas (trillion cubic feet) .....	<b>20.23</b>	<b>20.79</b>	<b>21.24</b>	<b>22.20</b>	<b>22.60</b>	<b>22.72</b>	<b>22.24</b>	<b>22.39</b>	<b>23.47</b>	<b>22.23</b>	<b>23.00</b>	<b>21.93</b>	21.90	22.57	23.04
Coal (million short tons).....	<b>908</b>	<b>944</b>	<b>951</b>	<b>962</b>	<b>1006</b>	<b>1030</b>	<b>1037</b>	<b>1039</b>	<b>1084</b>	<b>1060</b>	<b>1066</b>	<b>1094</b>	1104	1136	1161
Electricity (billion kilowatt-hours)															
Retail Sales <sup>c</sup> .....	<b>2763</b>	<b>2861</b>	<b>2935</b>	<b>3013</b>	<b>3101</b>	<b>3146</b>	<b>3264</b>	<b>3312</b>	<b>3421</b>	<b>3370</b>	<b>3463</b>	<b>3500</b>	3547	3663	3743
Other Use/Sales <sup>d</sup> .....	<b>122</b>	<b>128</b>	<b>134</b>	<b>144</b>	<b>146</b>	<b>148</b>	<b>161</b>	<b>183</b>	<b>181</b>	<b>173</b>	<b>177</b>	<b>174</b>	178	185	187
Total .....	<b>2886</b>	<b>2989</b>	<b>3069</b>	<b>3157</b>	<b>3247</b>	<b>3294</b>	<b>3425</b>	<b>3495</b>	<b>3603</b>	<b>3543</b>	<b>3639</b>	<b>3674</b>	3725	3848	3930
Total Energy Demand <sup>e</sup> (quadrillion Btu) .....	<b>85.9</b>	<b>87.6</b>	<b>89.2</b>	<b>91.2</b>	<b>94.2</b>	<b>94.7</b>	<b>95.1</b>	<b>96.8</b>	<b>98.9</b>	<b>96.4</b>	<b>98.0</b>	<b>98.2</b>	99.0	101.9	103.7
Total Energy Demand per Dollar of GDP (thousand Btu per 1996 Dollar).....	<b>11.72</b>	<b>11.63</b>	<b>11.39</b>	<b>11.36</b>	<b>11.31</b>	<b>10.88</b>	<b>10.49</b>	<b>10.24</b>	<b>10.07</b>	<b>9.74</b>	<b>9.73</b>	<b>9.46</b>	<b>9.13</b>	<b>9.07</b>	<b>8.95</b>

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

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

<sup>c</sup>Total 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.

<sup>d</sup>Defined 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.

<sup>e</sup>"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, December 2004.

**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
<b>Macroeconomic</b>															
Real Gross Domestic Product (billion chained 2000 dollars).....	<b>7337</b>	<b>7533</b>	<b>7835</b>	<b>8032</b>	<b>8329</b>	<b>8704</b>	<b>9067</b>	<b>9470</b>	<b>9817</b>	<b>9891</b>	<b>10075</b>	<b>10381</b>	10843	11228	11581
GDP Implicit Price Deflator (Index, 2000=100).....	<b>86.4</b>	<b>88.4</b>	<b>90.3</b>	<b>92.1</b>	<b>93.9</b>	<b>95.4</b>	<b>96.5</b>	<b>97.9</b>	<b>100.0</b>	<b>102.4</b>	<b>104.1</b>	<b>106.0</b>	108.2	110.2	112.3
Real Disposable Personal Income (billion chained 2000 Dollars).....	<b>5536</b>	<b>5594</b>	<b>5746</b>	<b>5906</b>	<b>6081</b>	<b>6296</b>	<b>6664</b>	<b>6862</b>	<b>7194</b>	<b>7333</b>	<b>7560</b>	<b>7734</b>	7994	8208	8458
Manufacturing Production (Index, 1997=100).....	<b>75.3</b>	<b>78.1</b>	<b>83.1</b>	<b>87.8</b>	<b>92.1</b>	<b>100.0</b>	<b>106.8</b>	<b>112.3</b>	<b>117.7</b>	<b>113.1</b>	<b>112.5</b>	<b>112.6</b>	118.3	124.4	129.4
Real Fixed Investment (billion chained 2000 dollars).....	<b>878</b>	<b>953</b>	<b>1042</b>	<b>1110</b>	<b>1209</b>	<b>1321</b>	<b>1455</b>	<b>1576</b>	<b>1679</b>	<b>1629</b>	<b>1549</b>	<b>1627</b>	1796	1903	1947
Real Exchange Rate (Index, 2000=1.000).....	<b>0.854</b>	<b>0.886</b>	<b>0.865</b>	<b>0.806</b>	<b>0.849</b>	<b>0.915</b>	<b>0.961</b>	<b>0.964</b>	<b>1.000</b>	<b>1.055</b>	<b>1.051</b>	<b>0.921</b>	0.847	0.764	0.743
Business Inventory Change (billion chained 2000 dollars).....	<b>-4.5</b>	<b>3.4</b>	<b>11.5</b>	<b>13.4</b>	<b>9.7</b>	<b>20.7</b>	<b>18.6</b>	<b>17.0</b>	<b>7.9</b>	<b>-21.3</b>	<b>-7.5</b>	<b>-15.2</b>	7.4	11.1	11.3
Producer Price Index (index, 1982=1.000).....	<b>1.172</b>	<b>1.189</b>	<b>1.205</b>	<b>1.248</b>	<b>1.277</b>	<b>1.276</b>	<b>1.244</b>	<b>1.255</b>	<b>1.328</b>	<b>1.342</b>	<b>1.311</b>	<b>1.381</b>	1.464	1.499	1.506
Consumer Price Index (index, 1982-1984=1.000).....	<b>1.403</b>	<b>1.445</b>	<b>1.482</b>	<b>1.524</b>	<b>1.569</b>	<b>1.605</b>	<b>1.630</b>	<b>1.666</b>	<b>1.722</b>	<b>1.770</b>	<b>1.799</b>	<b>1.840</b>	1.889	1.929	1.968
Petroleum Product Price Index (index, 1982=1.000).....	<b>0.647</b>	<b>0.620</b>	<b>0.591</b>	<b>0.608</b>	<b>0.701</b>	<b>0.680</b>	<b>0.513</b>	<b>0.609</b>	<b>0.913</b>	<b>0.853</b>	<b>0.795</b>	<b>0.977</b>	1.198	1.189	1.170
Non-Farm Employment (millions).....	<b>108.7</b>	<b>110.8</b>	<b>114.3</b>	<b>117.3</b>	<b>119.7</b>	<b>122.8</b>	<b>125.9</b>	<b>129.0</b>	<b>131.8</b>	<b>131.8</b>	<b>130.3</b>	<b>129.9</b>	131.3	133.6	135.4
Commercial Employment (millions).....	<b>70.9</b>	<b>72.9</b>	<b>75.7</b>	<b>78.4</b>	<b>80.7</b>	<b>83.4</b>	<b>86.1</b>	<b>89.1</b>	<b>91.4</b>	<b>92.0</b>	<b>91.4</b>	<b>91.7</b>	93.1	95.2	96.9
Total Industrial Production (index, 1997=100.0).....	<b>78.2</b>	<b>80.8</b>	<b>85.2</b>	<b>89.3</b>	<b>93.1</b>	<b>100.0</b>	<b>105.9</b>	<b>110.6</b>	<b>115.4</b>	<b>111.5</b>	<b>110.9</b>	<b>111.2</b>	116.2	121.2	125.1
Housing Stock (millions).....	<b>102.6</b>	<b>103.8</b>	<b>105.1</b>	<b>106.7</b>	<b>108.0</b>	<b>109.4</b>	<b>111.1</b>	<b>112.7</b>	<b>113.3</b>	<b>114.7</b>	<b>115.7</b>	<b>117.1</b>	118.2	119.6	120.8
<b>Weather <sup>a</sup></b>															
Heating Degree-Days															
U.S.....	<b>4433</b>	<b>4671</b>	<b>4470</b>	<b>4516</b>	<b>4689</b>	<b>4525</b>	<b>3946</b>	<b>4154</b>	<b>4447</b>	<b>4193</b>	<b>4272</b>	<b>4463</b>	4243	4496	4511
New England.....	<b>6918</b>	<b>6803</b>	<b>6748</b>	<b>6632</b>	<b>6749</b>	<b>6726</b>	<b>5743</b>	<b>6013</b>	<b>6584</b>	<b>6112</b>	<b>6098</b>	<b>6847</b>	6592	6607	6617
Middle Atlantic.....	<b>6107</b>	<b>6039</b>	<b>6083</b>	<b>5967</b>	<b>6118</b>	<b>5942</b>	<b>4924</b>	<b>5495</b>	<b>5942</b>	<b>5438</b>	<b>5371</b>	<b>6097</b>	5700	5846	5892
U.S. Gas-Weighted.....	<b>4787</b>	<b>5062</b>	<b>4861</b>	<b>4905</b>	<b>5092</b>	<b>4911</b>	<b>4271</b>	<b>4510</b>	<b>4796</b>	<b>4534</b>	<b>4635</b>	<b>4827</b>	4602	4841	4848
Cooling Degree-Days (U.S.).....	<b>1075</b>	<b>1251</b>	<b>1254</b>	<b>1322</b>	<b>1216</b>	<b>1195</b>	<b>1438</b>	<b>1328</b>	<b>1268</b>	<b>1288</b>	<b>1385</b>	<b>1282</b>	1244	1241	1261

<sup>a</sup>Population-weighted degree-days. A degree-day indicates the temperature variation from 65 degrees Fahrenheit (calculated as the simple average of the daily minimum and maximum temperatures) weighted by 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, December 2004. 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
<b>Production</b>															
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	23.85	24.48
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	19.29	19.61	19.70
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	11.54	11.82	12.19
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	2.46	2.48	2.51
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	8.20	8.24	8.27
Hydroelectric.....	2.60	2.87	2.67	3.20	3.58	3.62	3.27	3.23	2.78	2.13	2.60	2.71	2.68	2.98	3.01
Other Renewables.....	3.29	3.27	3.38	3.46	3.55	3.43	3.26	3.33	3.35	3.12	3.38	3.39	3.67	3.66	3.71
Total.....	69.96	68.29	70.70	71.17	72.42	72.34	72.80	71.67	71.24	71.84	71.04	70.40	71.03	72.65	73.87
<b>Net Imports</b>															
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	-0.55	-0.48	-0.45
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	3.50	3.65	3.93
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	21.98	22.15	22.10
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	2.99	3.07	3.37
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	0.02	0.00
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	28.09	28.48	29.01
<b>Adjustments <sup>a</sup></b> .....	-0.21	2.74	0.85	0.82	0.70	3.94	2.35	1.47	2.01	2.90	-0.21	0.18	-0.90	-0.09	-0.04
<b>Demand</b>															
Coal .....	19.12	19.84	19.91	20.09	21.00	21.45	21.66	21.62	22.58	21.66	22.02	22.60	22.62	23.27	23.78
Natural Gas.....	19.72	20.15	20.83	21.35	21.84	22.78	23.20	23.33	22.93	23.01	24.04	22.91	22.91	23.57	24.07
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	39.92	40.63	41.38
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	8.20	8.24	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	4.93	4.57	5.33	5.35
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	98.22	101.04	102.84

<sup>a</sup>Balancing 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
<b>Crude Oil Prices</b> (dollars per barrel)															
Imported Average <sup>a</sup> .....	<b>18.20</b>	<b>16.13</b>	<b>15.53</b>	<b>17.14</b>	<b>20.62</b>	<b>18.49</b>	<b>12.07</b>	<b>17.26</b>	<b>27.72</b>	<b>22.00</b>	<b>23.71</b>	<b>27.74</b>	36.09	36.60	36.00
WTI <sup>b</sup> Spot Average.....	<b>20.54</b>	<b>18.49</b>	<b>17.16</b>	<b>18.41</b>	<b>22.11</b>	<b>20.61</b>	<b>14.45</b>	<b>19.25</b>	<b>30.29</b>	<b>25.95</b>	<b>26.12</b>	<b>31.12</b>	41.44	43.04	42.00
<b>Natural Gas</b> (dollars per thousand cubic feet)															
Average Wellhead.....	<b>1.74</b>	<b>2.04</b>	<b>1.85</b>	<b>1.55</b>	<b>2.17</b>	<b>2.32</b>	<b>1.96</b>	<b>2.19</b>	<b>3.70</b>	<b>4.01</b>	<b>2.95</b>	<b>4.98</b>	5.48	5.23	5.43
Henry Hub Spot.....	<b>1.83</b>	<b>2.19</b>	<b>1.97</b>	<b>1.74</b>	<b>2.84</b>	<b>2.57</b>	<b>2.15</b>	<b>2.34</b>	<b>4.45</b>	<b>4.09</b>	<b>3.47</b>	<b>5.64</b>	6.06	5.77	5.95
<b>Petroleum Products</b>															
Gasoline Retail <sup>c</sup> (dollars per gallon)															
All Grades.....	<b>1.14</b>	<b>1.13</b>	<b>1.13</b>	<b>1.16</b>	<b>1.25</b>	<b>1.24</b>	<b>1.07</b>	<b>1.18</b>	<b>1.53</b>	<b>1.47</b>	<b>1.39</b>	<b>1.60</b>	1.89	1.91	1.87
Regular Unleaded.....	<b>1.09</b>	<b>1.07</b>	<b>1.08</b>	<b>1.11</b>	<b>1.20</b>	<b>1.20</b>	<b>1.03</b>	<b>1.14</b>	<b>1.49</b>	<b>1.43</b>	<b>1.34</b>	<b>1.56</b>	1.85	1.86	1.83
No. 2 Diesel Oil, Retail (dollars per gallon).....	<b>1.11</b>	<b>1.11</b>	<b>1.11</b>	<b>1.11</b>	<b>1.24</b>	<b>1.19</b>	<b>1.04</b>	<b>1.12</b>	<b>1.49</b>	<b>1.40</b>	<b>1.32</b>	<b>1.51</b>	1.81	1.87	1.86
No. 2 Heating Oil, Wholesale (dollars per gallon).....	<b>0.58</b>	<b>0.54</b>	<b>0.51</b>	<b>0.51</b>	<b>0.64</b>	<b>0.59</b>	<b>0.42</b>	<b>0.49</b>	<b>0.89</b>	<b>0.76</b>	<b>0.69</b>	<b>0.88</b>	1.12	1.19	1.18
No. 2 Heating Oil, Retail (dollars per gallon).....	<b>0.93</b>	<b>0.90</b>	<b>0.87</b>	<b>0.86</b>	<b>0.97</b>	<b>0.96</b>	<b>0.83</b>	<b>0.87</b>	<b>1.28</b>	<b>1.22</b>	<b>1.11</b>	<b>1.32</b>	1.56	1.68	1.65
No. 6 Residual Fuel Oil, Retail <sup>d</sup> (dollars per barrel).....	<b>14.21</b>	<b>14.00</b>	<b>14.79</b>	<b>16.49</b>	<b>19.01</b>	<b>17.82</b>	<b>12.83</b>	<b>16.02</b>	<b>25.34</b>	<b>22.24</b>	<b>23.81</b>	<b>29.41</b>	31.06	31.14	31.90
<b>Electric Power Sector</b> (dollars per million Btu)															
Coal.....	<b>1.41</b>	<b>1.38</b>	<b>1.36</b>	<b>1.32</b>	<b>1.29</b>	<b>1.27</b>	<b>1.25</b>	<b>1.22</b>	<b>1.20</b>	<b>1.23</b>	<b>1.25</b>	<b>1.27</b>	1.34	1.37	1.38
Heavy Fuel Oil <sup>e</sup> .....	<b>2.46</b>	<b>2.36</b>	<b>2.40</b>	<b>2.60</b>	<b>3.01</b>	<b>2.79</b>	<b>2.07</b>	<b>2.38</b>	<b>4.27</b>	<b>3.73</b>	<b>3.67</b>	<b>4.72</b>	4.72	4.71	4.85
Natural Gas.....	<b>2.33</b>	<b>2.56</b>	<b>2.23</b>	<b>1.98</b>	<b>2.64</b>	<b>2.76</b>	<b>2.38</b>	<b>2.57</b>	<b>4.34</b>	<b>4.44</b>	<b>3.54</b>	<b>5.39</b>	5.91	5.67	5.90
<b>Other Residential</b>															
Natural Gas (dollars per thousand cubic feet)....	<b>5.89</b>	<b>6.17</b>	<b>6.41</b>	<b>6.06</b>	<b>6.35</b>	<b>6.95</b>	<b>6.83</b>	<b>6.69</b>	<b>7.77</b>	<b>9.63</b>	<b>7.91</b>	<b>9.50</b>	10.68	10.79	10.68
Electricity (cents per kilowatthour).....	<b>8.23</b>	<b>8.34</b>	<b>8.40</b>	<b>8.40</b>	<b>8.36</b>	<b>8.43</b>	<b>8.26</b>	<b>8.16</b>	<b>8.24</b>	<b>8.62</b>	<b>8.45</b>	<b>8.71</b>	8.94	9.14	9.29

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

<sup>b</sup>West Texas Intermediate.

<sup>c</sup>Average self-service cash prices.

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

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

Notes: Prices exclude taxes, except prices for gasoline, residential natural gas, and diesel. 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
<b>Supply</b>															
Crude Oil Supply															
Domestic Production <sup>a</sup>	7.17	6.85	6.66	6.56	6.46	6.45	6.25	5.88	5.82	5.80	5.75	5.68	5.44	5.58	5.76
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	0.94	0.91	0.89
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	4.49	4.68	4.87
Net Commercial Imports <sup>b</sup>	5.98	6.67	6.95	7.14	7.40	8.12	8.60	8.60	9.01	9.30	9.12	9.65	10.05	10.15	10.13
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	-0.11	-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	-0.06	0.00	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	0.16	0.08	0.08
<b>Total Crude Oil Supply</b>	<b>13.41</b>	<b>13.61</b>	<b>13.87</b>	<b>13.97</b>	<b>14.19</b>	<b>14.66</b>	<b>14.89</b>	<b>14.80</b>	<b>15.07</b>	<b>15.13</b>	<b>14.95</b>	<b>15.30</b>	15.47	15.75	15.97
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	1.80	1.82	1.84
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	0.43	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	1.01	0.99	1.00
Net Product Imports <sup>c</sup>	0.94	0.93	1.09	0.75	1.10	1.04	1.17	1.30	1.40	1.59	1.42	1.59	1.80	1.91	2.07
Product Stock Withdrawn	0.06	-0.05	0.00	0.15	0.03	-0.09	-0.17	0.30	0.00	-0.23	0.14	0.03	-0.03	-0.01	0.00
<b>Total Supply</b>	<b>17.10</b>	<b>17.26</b>	<b>17.72</b>	<b>17.72</b>	<b>18.31</b>	<b>18.62</b>	<b>18.92</b>	<b>19.52</b>	<b>19.70</b>	<b>19.65</b>	<b>19.76</b>	<b>20.03</b>	20.48	20.90	21.30
<b>Demand</b>															
Motor Gasoline <sup>d</sup>	7.38	7.48	7.60	7.79	7.89	8.02	8.25	8.43	8.47	8.61	8.85	8.93	9.07	9.24	9.46
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	1.66	1.69
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	4.07	4.18	4.23
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	0.79	0.85	0.88
Other Oils <sup>e</sup>	4.20	4.17	4.41	4.36	4.63	4.77	4.69	5.01	4.87	4.73	4.82	4.82	4.93	4.97	5.04
<b>Total Demand</b>	<b>17.10</b>	<b>17.24</b>	<b>17.72</b>	<b>17.72</b>	<b>18.31</b>	<b>18.62</b>	<b>18.92</b>	<b>19.52</b>	<b>19.70</b>	<b>19.65</b>	<b>19.76</b>	<b>20.03</b>	20.48	20.89	21.29
<b>Total Petroleum Net Imports</b>	<b>6.94</b>	<b>7.62</b>	<b>8.05</b>	<b>7.89</b>	<b>8.50</b>	<b>9.16</b>	<b>9.76</b>	<b>9.91</b>	<b>10.42</b>	<b>10.90</b>	<b>10.54</b>	<b>11.24</b>	11.85	12.07	12.20
<b>Closing Stocks (million barrels)</b>															
Crude Oil (excluding SPR)	318	335	337	303	284	305	324	284	286	312	278	269	292	290	291
Total Motor Gasoline	216	226	215	202	195	210	216	193	196	210	209	207	214	212	209
Jet Fuel	43	40	47	40	40	44	45	41	45	42	39	39	41	41	41
Distillate Fuel Oil	141	141	145	130	127	138	156	125	118	145	134	137	121	126	130
Residual Fuel Oil	43	44	42	37	46	40	45	36	36	41	31	38	41	37	37
Other Oils <sup>f</sup>	263	273	275	258	250	259	291	246	247	287	258	241	253	256	257

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

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

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

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

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

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

SPR: Strategic Petroleum Reserve. NGL: Natural Gas Liquids

Notes: Minor discrepancies with other EIA published historical data are due to rounding, 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
<b>Supply</b>															
Total Dry Gas Production .....	<b>17.84</b>	<b>18.10</b>	<b>18.82</b>	<b>18.60</b>	<b>18.78</b>	<b>18.83</b>	<b>19.02</b>	<b>18.83</b>	<b>19.18</b>	<b>19.62</b>	<b>18.96</b>	<b>19.07</b>	18.76	<i>19.07</i>	<i>19.16</i>
Gross Imports .....	<b>2.14</b>	<b>2.35</b>	<b>2.62</b>	<b>2.84</b>	<b>2.94</b>	<b>2.99</b>	<b>3.15</b>	<b>3.59</b>	<b>3.78</b>	<b>3.98</b>	<b>4.02</b>	<b>4.00</b>	4.12	<i>4.32</i>	<i>4.62</i>
Gross Exports .....	<b>0.22</b>	<b>0.14</b>	<b>0.16</b>	<b>0.15</b>	<b>0.15</b>	<b>0.16</b>	<b>0.16</b>	<b>0.16</b>	<b>0.24</b>	<b>0.37</b>	<b>0.52</b>	<b>0.69</b>	0.71	<i>0.76</i>	<i>0.79</i>
Net Imports .....	<b>1.92</b>	<b>2.21</b>	<b>2.46</b>	<b>2.69</b>	<b>2.78</b>	<b>2.84</b>	<b>2.99</b>	<b>3.42</b>	<b>3.54</b>	<b>3.60</b>	<b>3.50</b>	<b>3.30</b>	3.41	<i>3.56</i>	<i>3.83</i>
Supplemental Gaseous Fuels.....	<b>0.12</b>	<b>0.12</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.08</b>	<b>0.08</b>	<b>0.08</b>	<b>0.09</b>	<b>0.09</b>	<b>0.07</b>	<b>0.06</b>	0.06	<i>0.07</i>	<i>0.07</i>
Total New Supply.....	<b>19.88</b>	<b>20.42</b>	<b>21.39</b>	<b>21.40</b>	<b>21.68</b>	<b>21.74</b>	<b>22.10</b>	<b>22.34</b>	<b>22.81</b>	<b>23.30</b>	<b>22.53</b>	<b>22.44</b>	22.23	<i>22.69</i>	<i>23.06</i>
Working Gas in Storage															
Opening .....	<b>3.07</b>	<b>2.60</b>	<b>2.32</b>	<b>2.61</b>	<b>2.15</b>	<b>2.17</b>	<b>2.17</b>	<b>2.73</b>	<b>2.52</b>	<b>1.72</b>	<b>2.90</b>	<b>2.38</b>	2.56	<i>2.70</i>	<i>2.62</i>
Closing .....	<b>2.60</b>	<b>2.32</b>	<b>2.61</b>	<b>2.15</b>	<b>2.17</b>	<b>2.17</b>	<b>2.73</b>	<b>2.52</b>	<b>1.72</b>	<b>2.90</b>	<b>2.38</b>	<b>2.56</b>	2.70	<i>2.62</i>	<i>2.44</i>
Net Withdrawals.....	<b>0.47</b>	<b>0.28</b>	<b>-0.28</b>	<b>0.45</b>	<b>-0.02</b>	<b>0.00</b>	<b>-0.56</b>	<b>0.21</b>	<b>0.80</b>	<b>-1.19</b>	<b>0.53</b>	<b>-0.19</b>	-0.13	<i>0.07</i>	<i>0.18</i>
Total Supply.....	<b>20.35</b>	<b>20.70</b>	<b>21.11</b>	<b>21.85</b>	<b>21.66</b>	<b>21.74</b>	<b>21.54</b>	<b>22.54</b>	<b>23.61</b>	<b>22.12</b>	<b>23.06</b>	<b>22.25</b>	22.10	<i>22.77</i>	<i>23.24</i>
Balancing Item <sup>a</sup> .....	<b>-0.12</b>	<b>0.09</b>	<b>0.13</b>	<b>0.35</b>	<b>0.94</b>	<b>0.98</b>	<b>0.70</b>	<b>-0.15</b>	<b>-0.15</b>	<b>0.11</b>	<b>-0.06</b>	<b>-0.32</b>	-0.19	<i>-0.20</i>	<i>-0.20</i>
Total Primary Supply .....	<b>20.23</b>	<b>20.79</b>	<b>21.24</b>	<b>22.20</b>	<b>22.60</b>	<b>22.72</b>	<b>22.24</b>	<b>22.39</b>	<b>23.47</b>	<b>22.23</b>	<b>23.00</b>	<b>21.93</b>	21.90	<i>22.57</i>	<i>23.04</i>
<b>Demand</b>															
Residential.....	<b>4.69</b>	<b>4.96</b>	<b>4.85</b>	<b>4.85</b>	<b>5.24</b>	<b>4.98</b>	<b>4.52</b>	<b>4.73</b>	<b>4.99</b>	<b>4.77</b>	<b>4.89</b>	<b>5.10</b>	4.88	<i>4.95</i>	<i>5.06</i>
Commercial.....	<b>2.80</b>	<b>2.86</b>	<b>2.90</b>	<b>3.03</b>	<b>3.16</b>	<b>3.21</b>	<b>3.00</b>	<b>3.04</b>	<b>3.22</b>	<b>3.02</b>	<b>3.10</b>	<b>3.14</b>	3.03	<i>3.17</i>	<i>3.19</i>
Industrial .....	<b>8.70</b>	<b>8.87</b>	<b>8.91</b>	<b>9.38</b>	<b>9.68</b>	<b>9.71</b>	<b>9.49</b>	<b>9.16</b>	<b>9.40</b>	<b>8.47</b>	<b>8.67</b>	<b>8.14</b>	8.21	<i>8.42</i>	<i>8.63</i>
Lease and Plant Fuel.....	<b>1.17</b>	<b>1.17</b>	<b>1.12</b>	<b>1.22</b>	<b>1.25</b>	<b>1.20</b>	<b>1.17</b>	<b>1.08</b>	<b>1.15</b>	<b>1.12</b>	<b>1.11</b>	<b>1.12</b>	1.10	<i>1.12</i>	<i>1.12</i>
Other Industrial .....	<b>7.53</b>	<b>7.70</b>	<b>7.79</b>	<b>8.16</b>	<b>8.44</b>	<b>8.51</b>	<b>8.32</b>	<b>8.08</b>	<b>8.25</b>	<b>7.35</b>	<b>7.56</b>	<b>7.02</b>	7.10	<i>7.30</i>	<i>7.51</i>
CHP <sup>b</sup> .....	<b>1.11</b>	<b>1.12</b>	<b>1.18</b>	<b>1.26</b>	<b>1.29</b>	<b>1.28</b>	<b>1.35</b>	<b>1.40</b>	<b>1.39</b>	<b>1.31</b>	<b>1.24</b>	<b>1.14</b>	1.14	<i>1.25</i>	<i>1.28</i>
Non-CHP .....	<b>6.42</b>	<b>6.58</b>	<b>6.61</b>	<b>6.90</b>	<b>7.15</b>	<b>7.23</b>	<b>6.97</b>	<b>6.68</b>	<b>6.87</b>	<b>6.04</b>	<b>6.32</b>	<b>5.88</b>	5.96	<i>6.05</i>	<i>6.23</i>
Transportation <sup>c</sup> .....	<b>0.59</b>	<b>0.62</b>	<b>0.69</b>	<b>0.70</b>	<b>0.71</b>	<b>0.75</b>	<b>0.64</b>	<b>0.65</b>	<b>0.64</b>	<b>0.63</b>	<b>0.67</b>	<b>0.64</b>	0.64	<i>0.65</i>	<i>0.66</i>
Electric Power <sup>d</sup> .....	<b>3.45</b>	<b>3.47</b>	<b>3.90</b>	<b>4.24</b>	<b>3.81</b>	<b>4.06</b>	<b>4.59</b>	<b>4.82</b>	<b>5.21</b>	<b>5.34</b>	<b>5.67</b>	<b>4.93</b>	5.15	<i>5.37</i>	<i>5.51</i>
Total Demand .....	<b>20.23</b>	<b>20.79</b>	<b>21.24</b>	<b>22.20</b>	<b>22.60</b>	<b>22.72</b>	<b>22.24</b>	<b>22.39</b>	<b>23.47</b>	<b>22.23</b>	<b>23.00</b>	<b>21.93</b>	21.90	<i>22.57</i>	<i>23.04</i>

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

<sup>b</sup> 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.

<sup>c</sup>Pipeline fuel use plus natural gas used as vehicle fuel.

<sup>d</sup>Natural 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
<b>Supply</b>															
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	1111.4	1143.4	1173.6
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	390.7	387.3	397.6
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	147.5	139.6	143.2
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	573.3	616.6	632.8
Primary Stock Levels <sup>a</sup>															
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	27.0	30.1	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	47.2	47.3	49.3
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	1095.2	1126.0	1156.9
Secondary Stock Levels <sup>b</sup>															
Opening.....	147.1	166.8	123.1	139.6	138.0	126.0	108.8	131.6	149.1	108.5	146.0	148.9	127.0	109.6	115.1
Closing.....	166.8	123.1	139.6	138.0	126.0	108.8	131.6	149.1	108.5	146.0	148.9	127.0	109.6	115.1	122.2
Net Withdrawals.....	-19.8	43.8	-16.5	1.5	12.0	17.2	-22.8	-17.5	40.7	-37.6	-2.9	21.9	17.3	-5.4	-7.1
Waste Coal Supplied to IPPs <sup>c</sup> .....	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	11.6
Total Supply.....	880.1	937.9	954.5	962.7	1008.1	1033.9	1031.8	1040.2	1086.0	1067.9	1072.4	1092.2	1125.0	1135.6	1161.4
<b>Demand</b>															
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	24.2	25.5	25.0
Electric Power Sector <sup>d</sup> .....	795.1	831.6	838.4	850.2	896.9	921.4	936.6	940.9	985.8	964.4	977.5	1004.3	1013.5	1043.4	1070.8
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	66.5	66.7	65.6
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	4.5	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	61.9	62.3	61.4
CHP <sup>e</sup> .....	28.2	28.9	29.7	29.4	29.4	29.9	28.6	27.8	28.0	25.8	26.2	26.7	27.2	27.5	27.8
Non-CHP.....	45.8	46.0	45.5	43.7	42.3	41.7	38.9	37.0	37.2	39.5	34.5	34.5	34.7	34.8	33.5
Total Demand <sup>f</sup> .....	907.7	944.1	951.3	962.1	1006.3	1029.5	1037.1	1038.6	1084.1	1060.1	1066.4	1094.0	1104.1	1135.6	1161.4
Discrepancy <sup>g</sup> .....	-27.6	-6.1	3.2	0.6	1.7	4.3	-5.3	1.6	1.9	7.7	6.1	-1.8	20.9	0.0	0.0

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

<sup>b</sup>Secondary stocks are held by users. It includes an estimate of stocks held at utility plants sold to nonutility generators.

<sup>c</sup>Estimated independent power producers (IPPs) consumption of waste coal. This item includes waste coal and coal slurry reprocessed into briquettes.

<sup>d</sup>Estimates of coal consumption by IPPs, supplied by the Office of Coal, Nuclear, Electric, and Alternate Fuels, EIA.

<sup>e</sup>Coal 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.

<sup>f</sup>Total Demand includes estimated IPP consumption.

<sup>g</sup>The 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 Kilowatthours)

	Year														
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Net Electricity Generation</b>															
Electric Power Sector <sup>a</sup>															
Coal .....	1597.7	1665.5	1666.3	1686.1	1772.0	1820.8	1850.2	1858.6	1943.1	1882.8	1910.6	1948.0	1955.2	2001.9	2046.2
Petroleum .....	92.2	105.4	98.7	68.1	74.8	86.5	122.2	111.5	105.2	119.1	89.7	112.5	110.2	120.5	135.7
Natural Gas .....	334.3	342.2	385.7	419.2	378.8	399.6	449.3	473.0	518.0	554.9	607.7	550.6	598.3	633.2	656.9
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	785.6	789.7	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	257.9	287.3	290.1
Other <sup>b</sup> .....	45.5	47.0	47.0	44.8	45.8	47.3	48.6	50.0	51.6	49.4	58.6	55.1	61.2	62.5	65.3
Subtotal .....	2934.4	3043.9	3088.7	3194.2	3284.1	3329.4	3457.4	3530.0	3637.5	3580.1	3698.5	3690.7	3768.4	3895.0	3986.4
Other Sectors <sup>c</sup> .....	149.5	153.3	158.8	159.3	160.0	162.8	162.9	164.8	164.6	156.6	160.0	157.3	161.6	167.3	169.1
Total .....	3083.9	3197.2	3247.5	3353.5	3444.2	3492.2	3620.3	3694.8	3802.1	3736.6	3858.5	3848.0	3930.0	4062.3	4155.5
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	10.7	7.1	0.2
Total Supply .....	3109.3	3225.0	3292.3	3392.7	3484.4	3526.2	3646.2	3723.8	3835.9	3758.7	3881.3	3854.4	3940.6	4069.4	4155.6
Losses and Unaccounted for <sup>d</sup> .....	223.7	236.0	223.7	235.4	237.4	232.2	221.0	229.2	233.0	216.1	242.1	180.8	215.4	221.2	226.0
<b>Demand</b>															
Retail Sales <sup>e</sup>															
Residential .....	935.9	994.8	1008.5	1042.5	1082.5	1075.9	1130.1	1144.9	1192.4	1202.6	1267.0	1279.9	1292.8	1320.7	1356.7
Commercial <sup>f</sup> .....	850.0	884.7	913.1	953.1	980.1	1026.6	1078.0	1103.8	1159.3	1197.4	1218.2	1223.4	1225.2	1272.1	1310.8
Industrial .....	972.7	977.2	1008.0	1012.7	1033.6	1038.2	1051.2	1058.2	1064.2	964.2	972.2	991.4	1022.4	1063.8	1068.4
Transportation <sup>g</sup> .....	4.7	4.8	5.0	5.0	4.9	4.9	5.0	5.1	5.4	5.5	5.2	5.3	6.6	6.8	7.0
Subtotal .....	2763.4	2861.5	2934.6	3013.3	3101.1	3145.6	3264.2	3312.1	3421.4	3369.8	3462.5	3500.0	3546.9	3663.5	3743.0
Other Use/Sales <sup>h</sup> .....	122.3	127.5	134.1	144.1	145.9	148.4	160.9	182.5	181.5	172.8	176.6	173.7	178.4	184.7	186.6
Total Demand .....	2885.6	2989.0	3068.7	3157.3	3247.0	3294.0	3425.1	3494.6	3602.9	3542.6	3639.1	3673.6	3725.2	3848.2	3929.7

<sup>a</sup>Electric Utilities and independent power producers.

<sup>b</sup>"Other" includes generation from other gaseous fuels, geothermal, wind, wood, waste, and solar sources.

<sup>c</sup>Electricity generation from combined heat and power facilities and electricity-only plants in the industrial and commercial sectors.

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

<sup>e</sup>Total 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.

<sup>f</sup>Commercial 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.

<sup>g</sup>Transportation 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.

<sup>h</sup>Defined 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