

Conversion to the Metric System

Public Law 100-418, the Omnibus Trade and Competitiveness Act of 1988, states: "It is the declared policy of the United States—

(1) to designate the metric system of measurement as the preferred system of weights and measures for United States trade and commerce. . . .

(2) to require that each Federal agency, by the end of Fiscal Year 1992, use the metric system of measurement in its procurements, grants, and other business-related activities."{45}

Table C1 is in keeping with the spirit of this law. The petroleum industry in the United States is slowly moving in the direction prescribed by this law and the data collected by EIA are collected in the units that are still common to the U.S. petroleum industry, namely barrels and cubic feet. Standard metric conversion factors were used to convert the National level volumes in Table 1 to the metric equivalents in Table C1. Barrels were multiplied by 0.1589873 to convert to cubic meters and cubic feet were multiplied by 0.02831685 to convert to cubic meters.

Table C1. U.S. Proved Reserves of Crude Oil, Dry Natural Gas, and Natural Gas Liquids, in Metric Units, 1997 – 2007

| Year | Adjustments (1) | Net Revisions (2) | Revisions ^a and Adjustments (3) | Net of Sales and Acquisitions (4) | Extensions (5) | New Field Discoveries (6) | New Reservoir Discoveries in Old Fields (7) | Total ^b Discoveries (8) | Estimated Production (9) | Proved Reserves 12/31 (10) | Change from Prior Year (11) |
|---|-----------------|-------------------|--|-----------------------------------|----------------|---------------------------|---|------------------------------------|--------------------------|----------------------------|-----------------------------|
| Crude Oil (million cubic meters) | | | | | | | | | | | |
| 1997 | 82.6 | 145.4 | 228.0 | NA | 75.8 | 101.3 | 18.9 | 196.0 | 339.9 | 3,584.5 | 84.1 |
| 1998 | -101.5 | 82.3 | -19.2 | NA | 52.0 | 24.2 | 19.1 | 95.3 | 316.5 | 3,344.1 | -240.4 |
| 1999 | 22.1 | 289.2 | 311.3 | NA | 41.2 | 51.0 | 23.1 | 115.3 | 310.3 | 3,460.4 | 116.3 |
| 2000 | 22.7 | 118.6 | 141.3 | -3.2 | 121.8 | 43.9 | 39.6 | 205.3 | 298.9 | 3,504.9 | 44.5 |
| 2001 | -0.6 | -25.1 | -25.8 | -13.8 | 137.7 | 223.7 | 46.4 | 407.8 | 304.5 | 3,568.6 | 63.7 |
| 2002 | 66.1 | 114.5 | 180.6 | 3.8 | 78.2 | 47.7 | 24.5 | 150.4 | 298.1 | 3,605.4 | 36.8 |
| 2003 | 25.9 | 14.9 | 40.9 | -63.3 | 67.7 | 112.1 | 16.1 | 195.9 | 298.4 | 3,480.4 | -125.0 |
| 2004 | 11.8 | 66.8 | 78.5 | 3.7 | 98.1 | 5.2 | 21.0 | 124.3 | 289.2 | 3,397.7 | -82.7 |
| 2005 | 35.1 | 90.5 | 125.6 | 44.2 | 128.0 | 32.6 | 6.5 | 167.1 | 275.5 | 3,459.1 | 61.4 |
| 2006 | 14.9 | 0.3 | 15.3 | 30.8 | 80.1 | 4.8 | 6.8 | 91.7 | 262.6 | 3,334.3 | -124.8 |
| 2007 | 10.3 | 190.8 | 201.1 | -3.0 | 103.5 | 10.5 | 11.6 | 125.6 | 268.8 | 3,389.1 | 54.9 |
| Dry Natural Gas (billion cubic meters) | | | | | | | | | | | |
| 1997 | -16.70 | 138.81 | 122.11 | NA | 299.73 | 75.92 | 67.45 | 443.10 | 544.00 | 4,735.23 | 21.21 |
| 1998 | -46.30 | 162.54 | 116.24 | NA | 232.11 | 30.41 | 61.22 | 323.74 | 530.09 | 4,645.12 | -90.11 |
| 1999 | 27.81 | 297.44 | 325.25 | NA | 199.44 | 44.40 | 62.18 | 306.02 | 535.98 | 4,740.41 | 95.29 |
| 2000 | -25.23 | 197.14 | 171.91 | 114.15 | 418.72 | 56.15 | 67.05 | 541.93 | 544.22 | 5,024.17 | 283.76 |
| 2001 | 77.64 | -65.64 | 12.01 | 74.47 | 463.83 | 101.32 | 79.29 | 644.44 | 560.08 | 5,195.01 | 170.84 |
| 2002 | 105.54 | 26.53 | 132.07 | 10.76 | 418.21 | 37.72 | 47.97 | 503.90 | 548.02 | 5,293.72 | 98.71 |
| 2003 | 80.45 | -46.38 | 34.07 | 29.28 | 465.93 | 34.60 | 45.59 | 546.12 | 550.05 | 5,353.10 | 59.38 |
| 2004 | -3.23 | 21.07 | 17.84 | 52.22 | 515.31 | 21.49 | 34.15 | 570.95 | 542.78 | 5,451.36 | 98.23 |
| 2005 | 53.43 | 76.43 | 129.86 | 72.04 | 596.07 | 26.67 | 34.21 | 656.95 | 522.67 | 5,787.54 | 336.18 |
| 2006 | 21.04 | -51.99 | -30.95 | 84.84 | 616.68 | 11.58 | 32.71 | 660.97 | 525.14 | 5,977.26 | 189.72 |
| 2007 | 32.48 | 437.81 | 470.29 | 767.58 | 22.54 | 22.54 | 33.64 | 823.77 | 551.22 | 6,731.65 | 754.39 |
| Natural Gas Liquids (million cubic meters) | | | | | | | | | | | |
| 1997 | -2.2 | 45.9 | 43.7 | NA | 85.1 | 18.1 | 14.3 | 117.5 | 137.4 | 1,267.6 | 23.8 |
| 1998 | -57.4 | 33.1 | -24.3 | NA | 60.9 | 10.5 | 14.0 | 85.4 | 132.4 | 1,196.2 | -71.4 |
| 1999 | 15.8 | 115.6 | 131.4 | NA | 49.8 | 8.1 | 14.0 | 71.9 | 142.5 | 1,257.0 | 60.8 |
| 2000 | -13.2 | 73.0 | 59.8 | 23.1 | 102.5 | 14.6 | 16.2 | 133.4 | 146.4 | 1,326.7 | 69.7 |
| 2001 | -68.2 | -21.0 | -89.2 | 16.2 | 114.0 | 21.9 | 22.6 | 158.5 | 141.5 | 1,270.8 | -55.9 |
| 2002 | 9.9 | 4.9 | 14.8 | 8.6 | 97.3 | 7.6 | 12.4 | 117.3 | 140.5 | 1,270.9 | 0.1 |
| 2003 | -53.7 | -25.6 | -79.3 | 4.8 | 100.0 | 5.6 | 11.4 | 117.0 | 127.5 | 1,185.9 | -85.0 |
| 2004 | 43.4 | 15.4 | 58.8 | 17.8 | 116.7 | 4.1 | 8.6 | 129.4 | 131.5 | 1,260.5 | 74.6 |
| 2005 | -14.1 | 3.3 | -10.8 | 24.8 | 137.2 | 5.1 | 6.7 | 149.0 | 125.3 | 1,298.1 | 37.7 |
| 2006 | 27.5 | -26.2 | 1.3 | 18.6 | 146.9 | 2.5 | 8.4 | 157.9 | 128.9 | 1,346.9 | 48.8 |
| 2007 | -22.1 | 67.1 | 45.0 | 16.1 | 163.8 | 4.8 | 9.2 | 177.7 | 132.1 | 1,453.6 | 106.7 |

^aRevisions and adjustments = Col. 1 + Col. 2.

^bTotal discoveries = Col. 5 + Col. 6 + Col. 7.

^cProved reserves = Col. 10 from prior year + Col. 3 + Col. 4 + Col. 8 - Col. 9.

Notes: Old means discovered in a prior year. New means discovered during the report year. The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." The following conversion factors were used to convert data: barrels = 0.1589873 per cubic meter and cubic feet = 0.02831685 per cubic meter. Number of decimal digits varies in order to accurately reproduce corresponding equivalents shown on Table 1 in Chapter 2.

Source: U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1997–2007 annual reports, DOE/EIA-0216.{20–30}