

**Table 17. Total Carbon Dioxide Emissions, Actual vs. Forecasts**

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
AEO 1982																				
AEO 1983																				
AEO 1984																				
AEO 1985																				
AEO 1986																				
AEO 1987																				
AEO 1989*																				
AEO 1990																				
AEO 1991																				
AEO 1992																				
AEO 1993									1366	1378	1399	1420	1437	1455	1473	1486	1501	1517	1533	1547
AEO 1994										1380	1399	1414	1429	1442	1455	1467	1483	1495	1508	1527
AEO 1995											1401	1411	1415	1435	1448	1462	1471	1484	1497	1514
AEO 1996												1413	1425	1444	1460	1477	1490	1507	1524	1544
AEO 1997													1444	1467	1497	1524	1543	1559	1577	1599
AEO 1998														1493	1533	1557	1577	1607	1625	1644
AEO 1999															1506	1552	1585	1613	1630	1646
AEO 2000																1520	1552	1576	1600	1628
AEO 2001																	1535	1577	1611	1643
AEO 2002																		1561	1584	1631
AEO 2003																			1536	1568
AEO 2004																				1566
Actual									1383	1413	1435	1451	1502	1520	1528	1551	1597	1568	1581	1579
Average Absolute Error (All AEOs)									17.4	33.7	35.6	35.9	72.5	63.7	47.6	47.0	70.1	38.5	41.4	43.8
(percent error)																				
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
AEO 1982																				
AEO 1983																				
AEO 1984																				
AEO 1985																				
AEO 1986																				
AEO 1987																				
AEO 1989*																				
AEO 1990																				
AEO 1991																				
AEO 1992																				
AEO 1993									-1.3	-2.5	-2.5	-2.1	-4.4	-4.3	-3.6	-4.2	-6.0	-3.2	-3.0	-2.0
AEO 1994										-2.3	-2.5	-2.5	-4.9	-5.1	-4.8	-5.4	-7.1	-4.6	-4.6	-3.3
AEO 1995											-2.4	-2.7	-5.8	-5.6	-5.2	-5.7	-7.9	-5.3	-5.3	-4.1
AEO 1996												-2.6	-5.2	-5.0	-4.4	-4.7	-6.7	-3.9	-3.6	-2.2
AEO 1997													-3.9	-3.4	-2.0	-1.8	-3.3	-0.6	-0.3	1.3
AEO 1998														-1.8	0.3	0.4	-1.2	2.5	2.8	4.1
AEO 1999															-1.4	0.1	-0.7	2.9	3.1	4.3
AEO 2000																-2.0	-2.8	0.5	1.2	3.2
AEO 2001																	-3.8	0.6	1.9	4.1
AEO 2002																		-0.4	0.2	3.3
AEO 2003																		-2.8	-0.7	
AEO 2004																			-0.8	
Average Absolute Percent Error (All AEOs)									1.3	2.4	2.5	2.5	4.8	4.2	3.1	3.0	4.4	2.5	2.6	2.8

\* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.Sources: Forecasts: *Annual Energy Outlook*, Mid-Price or Reference Case Projections, Various EditionsEnergy Information Administration, *Monthly Energy Review October 2004*, DOE/EIA-0035(2004/10) (Washington, DC, October 2004),Historical Data: Table 12.1, and 2003 estimate from <http://www.eia.doe.gov/oiaf/1605/flash/flash.html>