

**Table 5.44-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS  
AT MAUNA LOA: 1958 TO 2013**

[Average carbon dioxide mixing ratio, parts per million]

Year	Annual average	Year	Annual average	Year	Annual average
1958	1/ 315.17	1977	333.79	1996	362.40
1959	315.83	1978	335.35	1997	363.54
1960	316.75	1979	336.73	1998	366.61
1961	317.49	1980	338.72	1999	368.33
1962	318.30	1981	340.12	2000	369.62
1963	318.83	1982	341.21	2001	371.20
1964	2/ 319.04	1983	342.87	2002	372.99
1965	319.87	1984	344.48	2003	375.82
1966	321.21	1985	345.85	2004	377.54
1967	322.02	1986	347.21	2005	379.97
1968	322.83	1987	348.98	2006	381.89
1969	323.93	1988	351.34	2007	383.86
1970	325.27	1989	352.89	2008	385.61
1971	326.17	1990	354.26	2009	387.33
1972	327.26	1991	355.45	2010	389.80
1973	329.45	1992	356.58	2011	391.72
1974	1/ 329.72	1993	357.01	2012	393.82
1975	3/ 331.14	1994	358.51	2013	396.48
1976	332.04	1995	360.62		

1/ Based on data for 8 months.

2/ Based on data for 9 months.

3/ Based on data for 11 months.

Source: National Weather Service, Pacific Region, Honolulu (for 1958-1991); Mauna Loa Observatory (for 1992-1999); and U.S. Department of Commerce, National Oceanic & Atmospheric Administration (NOAA), Cooperative Global Air Sampling Network, Global Monitoring Division, Earth Systems Research Laboratory (ESRL) <<http://www.esrl.noaa.gov/gmd/obop/mlo/>> accessed April 9, 2014 and records.