

**Table 5.44-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS
AT MAUNA LOA: 1958 TO 2016**

[Average carbon dioxide mixing ratio, parts per million]

Year	Annual average	Year	Annual average	Year	Annual average
1958	1/ 315.17	1978	335.35	1998	366.61
1959	315.83	1979	336.73	1999	368.33
1960	316.75	1980	338.72	2000	2/ 369.55
1961	317.49	1981	340.12	2001	2/ 371.14
1962	318.30	1982	341.21	2002	2/ 373.28
1963	318.83	1983	342.87	2003	2/ 375.80
1964	3/ 319.04	1984	344.48	2004	2/ 377.52
1965	319.87	1985	345.85	2005	2/ 379.80
1966	321.21	1986	347.21	2006	2/ 381.90
1967	322.02	1987	348.98	2007	2/ 383.79
1968	322.83	1988	351.34	2008	2/ 385.60
1969	323.93	1989	352.89	2009	2/ 387.43
1970	325.27	1990	354.26	2010	2/ 389.90
1971	326.17	1991	355.45	2011	2/ 391.65
1972	327.26	1992	356.58	2012	2/ 393.85
1973	329.45	1993	357.01	2013	2/ 396.52
1974	1/ 329.72	1994	358.51	2014	2/ 398.65
1975	4/ 331.14	1995	360.62	2015	400.83
1976	332.04	1996	362.40	2016	404.21
1977	333.79	1997	363.54		

1/ Based on data for 8 months.

2/ Revised from previous *Data Book*.

3/ Based on data for 9 months.

4/ 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) <ftp://aftp.cmdl.noaa.gov/products/trends/co2/co2_annmean_mlo.txt> accessed June 21, 2017 and records.