

**Table 5.44-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS
AT MAUNA LOA: 1958 TO 2017**

[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	369.55
1961	317.49	1981	340.12	2001	371.14
1962	318.30	1982	341.21	2002	373.28
1963	318.83	1983	342.87	2003	375.80
1964	2/ 319.04	1984	344.48	2004	377.52
1965	319.87	1985	345.85	2005	379.80
1966	321.21	1986	347.21	2006	381.90
1967	322.02	1987	348.98	2007	383.79
1968	322.83	1988	351.34	2008	385.60
1969	323.93	1989	352.89	2009	387.43
1970	325.27	1990	354.26	2010	389.90
1971	326.17	1991	355.45	2011	391.65
1972	327.26	1992	356.58	2012	393.85
1973	329.45	1993	357.01	2013	396.52
1974	1/ 329.72	1994	358.51	2014	398.65
1975	3/ 331.14	1995	360.62	2015	400.83
1976	332.04	1996	362.40	2016	404.21
1977	333.79	1997	363.54	2017	406.53

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) <ftp://aftp.cmdl.noaa.gov/products/trends/co2/co2_annmean_mlo.txt> accessed June 14, 2018 and records.