

Table 5.45-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS AT MAUNA LOA: 1958 TO 2021

[Average carbon dioxide mixing ratio, parts per million]

Year	Annual average	Year	Annual average	Year	Annual average
1958	1/ 315.17	1980	338.76	2002	373.45
1959	315.98	1981	340.12	2003	375.98
1960	316.91	1982	341.48	2004	377.70
1961	317.64	1983	343.15	2005	379.98
1962	318.45	1984	344.85	2006	382.09
1963	318.99	1985	346.35	2007	384.02
1964	2/ 319.62	1986	347.61	2008	385.83
1965	320.04	1987	349.31	2009	387.64
1966	321.37	1988	351.69	2010	390.10
1967	322.18	1989	353.20	2011	391.85
1968	323.05	1990	354.45	2012	394.06
1969	324.62	1991	355.70	2013	396.74
1970	325.68	1992	356.54	2014	398.87
1971	326.32	1993	357.21	2015	401.01
1972	327.46	1994	358.96	2016	404.41
1973	329.68	1995	360.97	2017	406.76
1974	1/ 330.19	1996	362.74	2018	408.72
1975	3/ 331.12	1997	363.88	2019	411.66
1976	332.03	1998	366.84	2020	414.24
1977	333.84	1999	368.54	2021	417.41
1978	335.41	2000	369.71		
1979	336.84	2001	371.32		

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) <<https://gml.noaa.gov/ccgg/trends/weekly.html>> accessed April 4, 2022; and records.