

Contents	CO2 emissions before WWI
Metadata	Information about this file
TotalW	Total CO2 emissions from fossil fuel consumption and cement production, worldwide, 1750-1910, (billions of tonnes)
GasW	CO2 emissions from gas fuel consumption, worldwide, 1750-1910, (billions of tonnes)
LiquidW	CO2 emissions from liquid fuel consumption, worldwide, 1750-1910, (billions of tonnes)
SolidW	CO2 emissions from solid fuel consumption, worldwide, 1750-1910, (billions of tonnes)
TotalWE	Total CO2 emissions from fossil fuel consumption and cement production, West Europe, 1750-1910, (billions of tonnes)
TotalNA	Total CO2 emissions from fossil fuel consumption and cement production, North America, 1790-1910, (billions of tonnes)

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Metadata

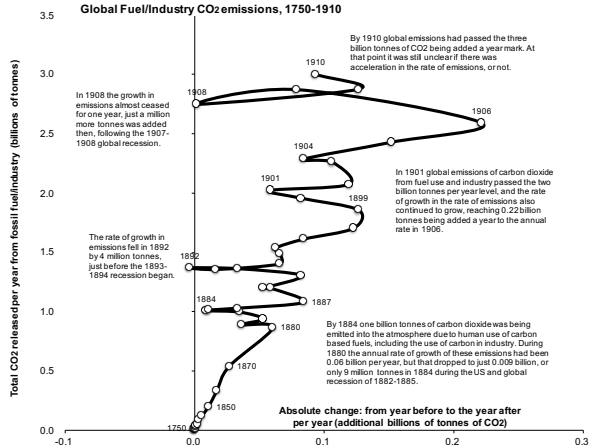
These reference tables contain statistics of the carbon dioxide emissions from the fuel and industries before the World War I. The emissions are broken down into different types of fuels, and then are broken down by region. The graph beside each table shows the total amount of emission in that year, and the absolute change over time. The x-axis is the absolute change while the y-axis is the total amount. Each circle represents a certain year.

It is obvious that Western Europe dominated the emissions throughout the 19th century, but that North America caught up in the 20th century. For both regions and different types of emissions, the economic downturn has a negative impact on the emissions.

Total CO₂ emissions from fossil fuel consumption and cement production, worldwide, 1750-1910, (billions of tonnes)

Source: Boden, T. A., Marland, G., and Andres, R. J.: Global, Regional, and National Fossil-Fuel CO₂ Emissions, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tenn., U.S.A., doi 10.3334/CDIAC/00001_V2017, 2017; available at: http://cdiac.ess-dive.lbl.gov/trends/emis/overview_2014.html
Frequency: Decade before 1880, yearly after 1880, End of period

Observation date	Absolute change (billions of tonnes)	Emission (billions of tonnes)	Label
1750	0.0001	0.011	1750
1760	0.0001	0.012	
1770	0.0001	0.013	
1780	0.0002	0.015	
1790	0.0007	0.018	
1800	0.0009	0.029	
1810	0.0011	0.037	
1820	0.0026	0.051	
1830	0.0035	0.088	
1840	0.0055	0.121	
1850	0.0106	0.198	1850
1860	0.0170	0.333	
1870	0.0266	0.539	1870
1880	0.0605	0.865	1880
1881	0.2366	0.890	
1882	0.0531	0.938	
1883	0.0348	0.997	
1884	0.0092	1.008	1884
1885	0.0110	1.015	
1886	0.0330	1.030	
1887	0.0843	1.081	1887
1888	0.0586	1.198	
1889	0.0531	1.198	
1890	0.0824	1.304	
1891	0.0330	1.363	
1892	-0.0037	1.370	1892
1893	0.0165	1.356	
1894	0.0660	1.403	
1895	0.0660	1.488	
1896	0.0623	1.535	
1897	0.0843	1.612	
1898	0.1227	1.704	
1899	0.1264	1.858	1899
1900	0.0824	1.957	
1901	0.0586	2.023	1901
1902	0.1191	2.074	
1903	0.1063	2.261	
1904	0.0843	2.286	1904
1905	0.1521	2.429	
1906	0.2217	2.590	
1907	0.0788	2.873	
1908	0.0018	2.748	1908
1909	0.1264	2.876	
1910	0.0834	3.001	1910
1911	0.1089	3.063	
1912	0.1960	3.221	1912
1913	-0.0531	3.455	
1914	-0.1924	3.114	
1915	0.0934	3.070	
1916	0.2143	3.301	
1917	0.0641	3.499	
1918	-0.2730	3.430	
1919	-0.0073	2.953	
1920	-0.0055	3.415	
1921	-0.1594	2.942	
1922	0.3059	3.096	
1923	0.2162	3.554	
1924	0.0092	3.528	
1925	0.0366	3.572	
1926	0.1594	3.602	
1927	0.1502	3.891	
1928	0.1521	3.902	
1929	-0.0220	4.195	
1930	-0.3756	3.858	
1931	-0.3774	3.444	
1932	-0.0861	3.103	
1933	0.2308	3.272	
1934	0.2455	3.565	
1935	0.2876	3.763	1935
1936	0.3334	4.140	
1937	0.0220	4.430	
1938	-0.0311	4.184	
1939	0.2876	4.367	
1940	0.2601	4.760	1940
1941	0.0788	4.888	
1942	0.1044	4.917	
1943	0.0751	5.097	
1944	-0.4232	5.067	
1945	-0.2656	4.250	1945
1946	0.4250	4.536	
1947	0.4232	5.100	
1948	0.0495	5.382	
1949	0.2850	5.199	
1950	0.6375	5.972	
1951	0.3023	6.474	
1952	0.1356	6.577	
1953	0.1282	6.745	
1954	0.3862	6.853	
1955	0.5716	7.482	
1956	0.4177	7.977	
1957	0.2803	8.317	
1958	0.3359	8.537	
1959	0.4367	8.989	
1960	0.2315	9.411	1960
1961	0.2138	9.452	
1962	0.4635	9.838	
1963	0.5656	10.379	
1964	0.5435	10.969	
1965	0.5381	11.466	
1966	0.4824	12.046	
1967	0.5089	12.431	
1968	0.7077	13.063	
1969	0.8912	13.846	
1970	0.7816	14.846	
1971	0.5891	15.410	
1972	0.7418	16.024	
1973	0.4498	16.893	
1974	-0.0339	16.924	
1975	0.4387	16.826	1975
1976	0.7649	17.601	
1977	0.3804	18.355	
1978	0.6194	18.562	1978
1979	0.4132	19.594	
1980	-0.4036	19.388	
1981	-0.3820	18.787	
1982	-0.1188	18.624	1982
1983	0.2964	18.540	
1984	0.6216	19.217	
1985	0.5895	19.793	
1986	0.5599	20.396	
1987	0.6426	20.912	1987
1988	0.6210	21.681	
1989	0.2503	22.154	
1990	0.1375	22.182	1990
1991	0.0066	22.429	
1992	-0.1381	22.195	
1993	0.1694	22.153	
1994	0.4271	22.534	
1995	0.4946	23.007	1995
1996	0.4540	23.523	
1997	0.2310	23.915	
1998	0.0076	23.985	
1999	0.2869	23.931	
2000	0.6037	24.559	2000
2001	0.4677	25.138	
2002	0.8644	25.494	
2003	1.3467	26.867	
2004	1.1941	28.186	
2005	1.0496	29.255	2005
2006	0.8126	30.287	
2007	0.7945	30.880	
2008	0.3215	31.876	
2009	0.5954	31.523	
2010	1.4171	33.067	2010
2011	0.3023	34.357	2011
2012	0.4253	34.919	2012
2013	0.2933	35.208	
2014	0.1274	35.506	
2015	0.0846	35.463	2015
2016	0.3453	35.675	2016
2017	0.7125	36.153	2017
2018	0.9467	37.100	2018

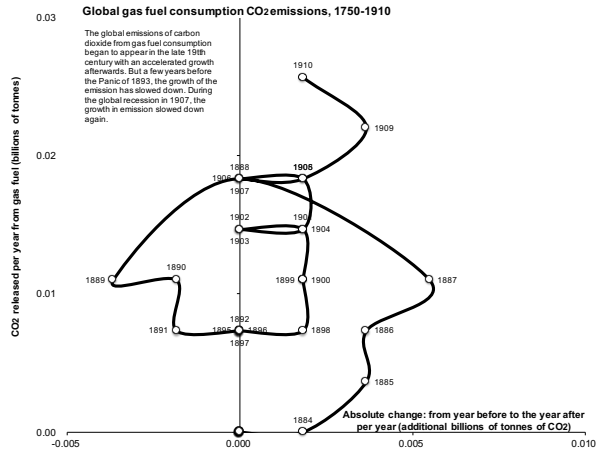


[Contents](#)

CO₂ emissions from gas fuel consumption, worldwide, 1750-1910, (billions of tonnes)

Source: Boden, T. A., Marland, G., and Andres, R. J.: Global, Regional, and National Fossil-Fuel CO₂ Emissions, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tenn., U.S.A., doi 10.3334/CDIAC/00001_V2017, 2017; available at: http://cdiac.ess-dive.lbl.gov/trends/emis/overview_2014.html
Frequency: Decade before 1880, yearly after 1880, End of period

Observation date	Absolute change (billions of tonnes)	Emission (billions of tonnes)	Label
1750	0.0000	0.000	
1760	0.0000	0.000	
1770	0.0000	0.000	
1780	0.0000	0.000	
1790	0.0000	0.000	
1800	0.0000	0.000	
1810	0.0000	0.000	
1820	0.0000	0.000	
1830	0.0000	0.000	
1840	0.0000	0.000	
1850	0.0000	0.000	
1860	0.0000	0.000	
1870	0.0000	0.000	
1880	0.0000	0.000	
1881	0.0000	0.000	
1882	0.0000	0.000	
1883	0.0000	0.000	
1884	0.0018	0.000	1884
1885	0.0037	0.004	1885
1886	0.0037	0.007	1886
1887	0.0055	0.011	1887
1888	0.0000	0.018	1888
1889	-0.0037	0.011	1889
1890	-0.0018	0.011	1890
1891	-0.0018	0.007	1891
1892	0.0000	0.007	1892
1893	0.0000	0.007	1893
1894	0.0000	0.007	1894
1895	0.0000	0.007	1895
1896	0.0000	0.007	1896
1897	0.0000	0.007	1897
1898	0.0018	0.007	1898
1899	0.0018	0.011	1899
1900	0.0018	0.011	1900
1901	0.0018	0.015	1901
1902	0.0000	0.015	1902
1903	0.0000	0.015	1903
1904	0.0018	0.015	1904
1905	0.0018	0.018	1905
1906	0.0000	0.018	1906
1907	0.0000	0.018	1907
1908	0.0018	0.018	1908
1909	0.0037	0.022	1909
1910	0.0018	0.026	1910
1911	0.0018	0.026	
1912	0.0018	0.029	1912
1913	0.0000	0.029	
1914	0.0018	0.029	
1915	0.0037	0.033	
1916	0.0037	0.037	
1917	0.0000	0.040	
1918	-0.0018	0.037	
1919	0.0018	0.037	
1920	0.0000	0.040	
1921	0.0000	0.037	
1922	0.0073	0.040	
1923	0.0092	0.051	
1924	0.0055	0.059	
1925	0.0055	0.062	
1926	0.0073	0.070	
1927	0.0073	0.077	
1928	0.0128	0.084	
1929	0.0092	0.103	
1930	-0.0055	0.103	
1931	-0.0073	0.092	
1932	0.0000	0.088	
1933	0.0073	0.092	
1934	0.0092	0.103	
1935	0.0110	0.110	1935
1936	0.0147	0.125	
1937	0.0055	0.139	
1938	0.0000	0.136	
1939	0.0092	0.139	
1940	0.0073	0.154	1940
1941	0.0055	0.154	
1942	0.0147	0.165	
1943	0.0165	0.183	
1944	0.0165	0.198	
1945	0.0128	0.216	1945
1946	0.0147	0.224	
1947	0.0275	0.245	
1948	0.0256	0.278	
1949	0.0385	0.297	
1950	0.0623	0.355	
1951	0.0495	0.421	
1952	0.0293	0.454	
1953	0.0256	0.480	
1954	0.0348	0.506	
1955	0.0421	0.550	
1956	0.0513	0.590	
1957	0.0558	0.652	
1958	0.0513	0.703	
1959	0.0641	0.755	
1960	0.0623	0.832	1960
1961	0.0660	0.879	
1962	0.0843	0.964	
1963	0.0971	1.048	
1964	0.0934	1.158	
1965	0.0979	1.235	
1966	0.1008	1.334	
1967	0.1099	1.436	
1968	0.1374	1.554	
1969	0.1264	1.711	
1970	0.1154	1.806	
1971	0.1227	1.942	
1972	0.1063	2.052	
1973	0.0678	2.154	
1974	0.0293	2.187	
1975	0.0605	2.213	1975
1976	0.0843	2.308	
1977	0.0916	2.382	
1978	0.1301	2.492	1978
1979	0.1044	2.642	
1980	0.0623	2.700	
1981	0.0018	2.766	
1982	-0.0293	2.704	1982
1983	0.1264	2.708	
1984	0.1759	2.957	
1985	0.0421	3.059	
1986	0.1044	3.041	
1987	0.1924	3.268	1987
1988	0.1649	3.426	
1989	0.1667	3.598	
1990	0.1264	3.759	1990
1991	0.1081	3.851	
1992	0.1209	3.975	
1993	0.0879	4.093	
1994	0.0623	4.151	
1995	0.1191	4.217	1995
1996	0.0843	4.389	
1997	0.0478	4.386	
1998	0.1118	4.485	
1999	0.1191	4.609	
2000	0.1063	4.723	2000
2001	0.0971	4.822	
2002	0.1484	4.917	
2003	0.1850	5.119	
2004	0.1612	5.287	
2005	0.1667	5.441	2005
2006	0.1411	5.621	
2007	0.1759	5.723	
2008	0.0403	5.972	
2009	0.1209	5.804	2009
2010	0.3151	6.214	2010
2011	0.1594	6.434	2011
2012	0.0916	6.533	2012
2013	0.0733	6.617	
2014	0.0623	6.679	

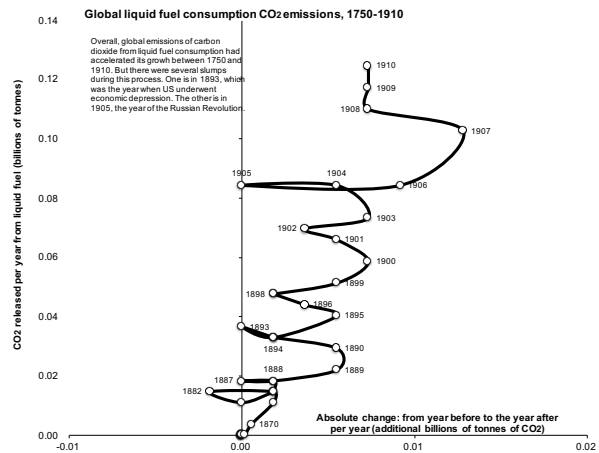


[Contents](#)

CO2 emissions from liquid fuel consumption, worldwide, 1750-1910, (billions of tonnes)

Source: Boden, T. A., Marland, G., and Andres, R. J.: Global, Regional, and National Fossil-Fuel CO2 Emissions, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tenn., U.S.A., doi 10.3334/CDIAC/00001_V2017, 2017; available at: http://cdiac.ess-dive.lbl.gov/trends/emis/overview_2014.html
Frequency: Decade before 1880, yearly after 1880, End of period

Observation date	Absolute change (billions of tonnes)	Emission (billions of tonnes)	Label
1750	0.0000	0.000	
1760	0.0000	0.000	
1770	0.0000	0.000	
1780	0.0000	0.000	
1790	0.0000	0.000	
1800	0.0000	0.000	
1810	0.0000	0.000	
1820	0.0000	0.000	
1830	0.0000	0.000	
1840	0.0000	0.000	
1850	0.0000	0.000	
1860	0.0002	0.000	
1870	0.0005	0.004	1870
1880	0.0018	0.011	
1881	0.0018	0.015	
1882	-0.0018	0.015	1882
1883	0.0000	0.011	
1884	0.0018	0.015	
1885	0.0018	0.015	
1886	0.0018	0.018	
1887	0.0000	0.018	1887
1888	0.0018	0.018	1888
1889	0.0055	0.022	1889
1890	0.0055	0.029	1890
1891	0.0018	0.033	
1892	0.0018	0.033	
1893	0.0000	0.037	1893
1894	0.0018	0.033	1894
1895	0.0055	0.040	1895
1896	0.0037	0.044	1896
1897	0.0018	0.048	
1898	0.0018	0.048	1898
1899	0.0055	0.051	1899
1900	0.0073	0.059	1900
1901	0.0055	0.066	1901
1902	0.0037	0.070	1902
1903	0.0073	0.073	1903
1904	0.0055	0.084	1904
1905	0.0000	0.084	1905
1906	0.0092	0.084	1906
1907	0.0128	0.103	1907
1908	0.0073	0.110	1908
1909	0.0073	0.117	1909
1910	0.0073	0.125	1910
1911	0.0055	0.132	
1912	0.0092	0.136	
1913	0.0092	0.150	
1914	0.0073	0.154	
1915	0.0110	0.165	
1916	0.0165	0.176	
1917	0.0092	0.198	
1918	0.0128	0.194	
1919	0.0458	0.224	
1920	0.0421	0.286	
1921	0.0293	0.308	
1922	0.0495	0.344	
1923	0.0293	0.407	
1924	0.0092	0.403	
1925	0.0165	0.425	
1926	0.0366	0.436	
1927	0.0440	0.498	
1928	0.0440	0.524	
1929	0.0165	0.586	
1930	-0.0238	0.557	
1931	-0.0202	0.539	
1932	0.0128	0.517	
1933	0.0385	0.564	
1934	0.0403	0.594	
1935	0.0250	0.645	1935
1936	0.0788	0.703	
1937	0.0403	0.802	
1938	0.0055	0.784	
1939	0.0275	0.813	
1940	0.0256	0.839	1940
1941	-0.0128	0.865	
1942	0.0055	0.813	
1943	0.0971	0.876	
1944	0.0660	1.008	
1945	0.0311	1.008	1945
1946	0.0861	1.070	
1947	0.1319	1.180	
1948	0.0733	1.334	
1949	0.1081	1.326	
1950	0.2143	1.550	
1951	0.1484	1.755	
1952	0.0989	1.847	
1953	0.0971	1.953	
1954	0.1685	2.041	
1955	0.2235	2.260	
1956	0.1630	2.488	
1957	0.0953	2.616	
1958	0.1374	2.678	
1959	0.2162	2.891	
1960	0.2107	3.111	1960
1961	0.2400	3.312	
1962	0.2711	3.591	
1963	0.2876	3.855	
1964	0.3059	4.166	
1965	0.3408	4.466	
1966	0.3737	4.847	
1967	0.4177	5.214	
1968	0.4380	5.663	
1969	0.5276	6.130	
1970	0.5020	6.738	
1971	0.3994	7.134	
1972	0.5386	7.537	
1973	0.3444	8.211	
1974	-0.1997	8.226	
1975	0.1264	7.812	1975
1976	0.4873	8.478	
1977	0.1429	8.786	
1978	0.2675	8.764	1978
1979	0.0550	9.321	
1980	-0.4672	8.874	
1981	-0.4140	8.387	
1982	-0.2070	8.046	1982
1983	0.0055	7.973	
1984	0.0183	8.057	
1985	0.1722	8.010	
1986	0.2198	8.402	
1987	0.2180	8.449	1987
1988	0.2803	8.838	
1989	0.1466	9.010	
1990	0.2601	9.131	1990
1991	0.0128	9.530	
1992	-0.1576	9.156	
1993	0.0733	9.215	
1994	0.0824	9.303	
1995	0.1594	9.380	1995
1996	0.2583	9.622	
1997	0.2510	9.896	
1998	0.0733	10.124	
1999	0.1502	10.043	
2000	0.1960	10.424	2000
2001	-0.0238	10.435	
2002	0.2015	10.376	
2003	0.3866	10.838	
2004	0.2015	11.150	
2005	0.0879	11.241	2005
2006	0.0055	11.325	
2007	0.0220	11.252	
2008	-0.0531	11.369	
2009	0.0073	11.146	2009
2010	0.1865	11.384	2010
2011	0.1704	11.463	2011
2012	0.1576	11.725	2012
2013	0.1466	11.798	
2014	0.2198	12.018	

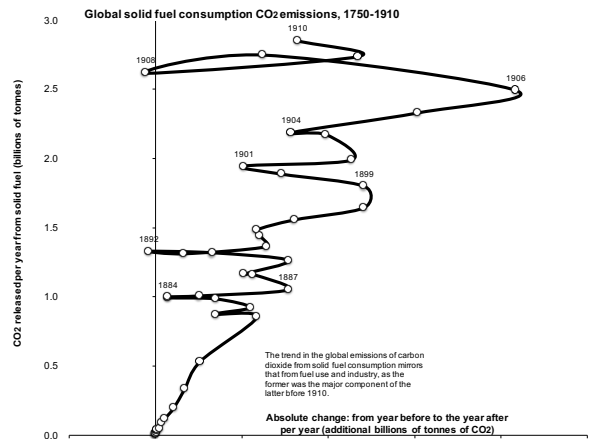


[Contents](#)

CO₂ emissions from solid fuel consumption, worldwide, 1750-1910, (billions of tonnes)

Source: Boden, T. A., Marland, G., and Andres, R. J.: Global, Regional, and National Fossil-Fuel CO₂ Emissions, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tenn., U.S.A., doi 10.3334/CDIAC/00001_V2017, 2017; available at: http://cdiac.ess-dive.lbl.gov/trends/emis/overview_2014.html
Frequency: Decade before 1880, yearly after 1880, End of period

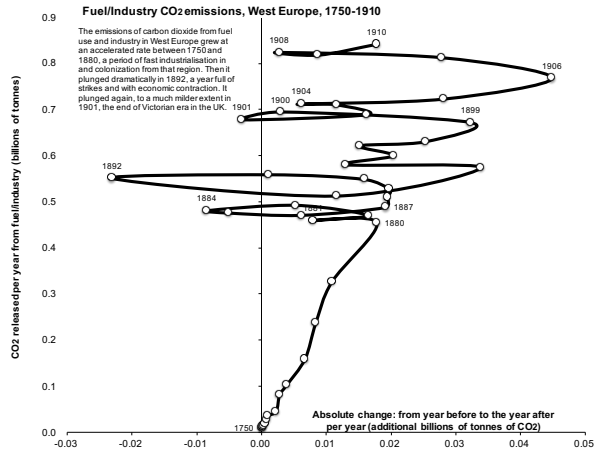
Observation date	Absolute change (billions of tonnes)	Emission (billions of tonnes)	Label
1750	0.0001	0.011	
1760	0.0001	0.012	
1770	0.0001	0.013	
1780	0.0002	0.015	
1790	0.0007	0.019	
1800	0.0009	0.029	
1810	0.0011	0.037	
1820	0.0026	0.051	
1830	0.0035	0.088	
1840	0.0055	0.121	
1850	0.0106	0.198	
1860	0.0169	0.333	
1870	0.0260	0.535	
1880	0.0586	0.854	
1881	0.0348	0.876	
1882	0.0550	0.923	
1883	0.0348	0.986	
1884	0.0073	0.993	1884
1885	0.0073	1.000	
1886	0.0256	1.008	
1887	0.0769	1.052	1887
1888	0.0568	1.161	
1889	0.0513	1.165	
1890	0.0769	1.264	
1891	0.0330	1.319	
1892	-0.0037	1.330	1892
1893	0.0165	1.312	
1894	0.0641	1.363	
1895	0.0605	1.440	
1896	0.0586	1.484	
1897	0.0806	1.557	
1898	0.1209	1.645	
1899	0.1209	1.799	1899
1900	0.0733	1.887	
1901	0.0513	1.946	1901
1902	0.1136	1.990	
1903	0.0889	2.173	
1904	0.0788	2.197	1904
1905	0.1521	2.330	
1906	0.2088	2.492	1906
1907	0.0623	2.748	
1908	-0.0055	2.616	1908
1909	0.1172	2.737	
1910	0.0624	2.851	1910
1911	0.1026	2.902	
1912	0.1887	3.056	1912
1913	-0.0623	3.279	
1914	-0.2034	2.931	
1915	0.0769	2.873	
1916	0.1960	3.085	
1917	0.0568	3.265	
1918	-0.2658	3.199	
1919	-0.0550	2.893	
1920	-0.0476	3.089	
1921	-0.1887	2.598	
1922	0.2492	2.711	
1923	0.1759	3.096	
1924	-0.0055	3.063	
1925	0.0183	3.085	
1926	0.1154	3.100	
1927	0.0806	3.316	
1928	0.0769	3.261	
1929	-0.0513	3.470	
1930	-0.3444	3.158	
1931	-0.3426	2.781	
1932	-0.0934	2.473	
1933	0.1832	2.594	
1934	0.1887	2.840	
1935	0.2162	2.972	1935
1936	0.2382	3.272	
1937	-0.0238	3.448	
1938	-0.0421	3.224	
1939	0.2510	3.364	
1940	0.2290	3.726	1940
1941	0.0843	3.822	
1942	0.0898	3.895	
1943	-0.0203	4.001	
1944	-0.4983	3.836	
1945	-0.3151	3.004	1945
1946	-0.3151	3.206	
1947	0.2565	3.635	
1948	-0.0586	3.719	
1949	0.1008	3.517	
1950	0.3096	3.920	
1951	0.0898	4.137	
1952	-0.0073	4.100	
1953	-0.0055	4.122	
1954	0.1521	4.089	
1955	0.2876	4.426	
1956	0.1850	4.664	
1957	0.1154	4.796	
1958	0.1337	4.865	
1959	0.1356	5.064	
1960	-0.0605	5.166	1960
1961	-0.1081	4.943	
1962	0.0861	4.950	
1963	0.1539	5.115	
1964	0.1172	5.258	
1965	0.0788	5.349	
1966	-0.0220	5.415	
1967	-0.0550	5.305	
1968	0.0696	5.305	
1969	0.1979	5.445	
1970	0.1337	5.701	
1971	0.0366	5.712	
1972	0.0403	5.774	
1973	0.0055	5.793	
1974	0.1685	5.785	
1975	0.2400	6.130	1975
1976	0.1521	6.265	
1977	0.1282	6.434	
1978	0.2180	6.522	1978
1979	0.2940	6.870	
1980	0.0605	7.090	
1981	0.0751	6.991	
1982	0.1264	7.240	1982
1983	0.1785	7.244	
1984	0.4378	7.599	
1985	0.3719	8.119	
1986	0.2253	8.343	
1987	0.2015	8.570	1987
1988	0.1630	8.746	
1989	-0.0513	8.896	
1990	-0.2638	8.643	1990
1991	-0.1264	8.369	
1992	-0.1081	8.391	
1993	-0.0220	8.152	
1994	0.2455	8.347	1995
1995	0.1905	8.643	
1996	0.0916	8.728	
1997	-0.0714	8.627	
1998	-0.1814	8.585	
1999	-0.0293	8.464	
2000	0.2473	8.526	2000
2001	0.3498	8.958	
2002	0.4580	9.226	
2003	0.7108	9.874	
2004	0.7566	10.648	
2005	0.7090	11.388	2005
2006	0.5752	12.066	
2007	0.5366	12.538	
2008	0.3078	13.143	
2009	0.4122	13.154	2009
2010	0.8519	13.967	2010
2011	0.5386	14.858	2011
2012	0.1301	15.044	2012
2013	0.0202	15.118	
2014	-0.0330	15.085	



Total CO₂ emissions from fossil fuel consumption and cement production, West Europe, 1750-1910, (billions of tonnes)

Source: Boden, T. A., Marland, G., and Andres, R. J.: Global, Regional, and National Fossil-Fuel CO₂ Emissions, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tenn., U.S.A., doi 10.3334/CDIAC/00001_V2017, 2017; available at: http://cdiac.ess-dive.lbl.gov/trends/emis/overview_2014.html
 Frequency: Decade before 1880, yearly after 1880, End of period

Observation date	Absolute change (billions of tonnes)	Emission (billions of tonnes)	Label
1750	0.0001	0.009	1750
1760	0.0001	0.010	
1770	0.0003	0.012	
1780	0.0003	0.015	
1790	0.0006	0.019	
1800	0.0008	0.027	
1810	0.0010	0.035	
1820	0.0023	0.046	
1830	0.0028	0.081	
1840	0.0039	0.102	
1850	0.0067	0.159	
1860	0.0084	0.236	
1870	0.0109	0.326	
1880	0.0178	0.454	1880
1881	0.0080	0.459	1881
1882	0.0165	0.470	1882
1883	0.0054	0.492	1883
1884	-0.0084	0.480	1884
1885	-0.0050	0.475	1885
1886	0.0082	0.470	1886
1887	0.0192	0.488	1887
1888	0.0195	0.509	1888
1889	0.0197	0.527	1889
1890	0.0159	0.548	1890
1891	0.0011	0.558	1891
1892	-0.0231	0.551	1892
1893	0.0117	0.512	1893
1894	0.0339	0.574	1894
1895	0.0129	0.580	1895
1896	0.0204	0.600	1896
1897	0.0151	0.621	1897
1898	0.0253	0.630	1898
1899	0.0323	0.672	1899
1900	0.0030	0.695	1900
1901	-0.0030	0.677	1901
1902	0.0163	0.689	1902
1903	0.0115	0.710	1903
1904	0.0062	0.712	1904
1905	0.0281	0.722	1905
1906	0.0445	0.768	1906
1907	0.0279	0.812	1907
1908	0.0028	0.824	1908
1909	0.0078	0.818	1909
1910	0.0178	0.841	1910
1911	0.0011	0.853	
1912	0.0357	0.844	1912
1913	-0.0186	0.925	
1914	-0.0764	0.806	
1915	-0.0131	0.772	
1916	-0.0214	0.780	
1917	-0.0446	0.729	
1918	-0.0104	0.691	
1919	0.0460	0.708	
1920	-0.0462	0.783	
1921	-0.0033	0.816	
1922	0.1166	0.776	
1923	0.0725	0.849	
1924	0.0272	0.921	
1925	-0.1088	0.903	
1926	0.0294	0.704	
1927	0.1121	0.962	
1928	0.0240	0.928	
1929	0.0237	1.010	
1930	-0.0482	0.975	
1931	-0.0697	0.914	
1932	-0.0347	0.836	
1933	0.0298	0.844	
1934	0.0285	0.895	
1935	0.0084	0.901	1935
1936	0.0435	0.912	
1937	0.0088	0.988	
1938	-0.0290	0.930	
1939	-0.0336	0.930	
1940	-0.0531	0.863	1940
1941	-0.0246	0.824	
1942	-0.0238	0.814	
1943	-0.0709	0.776	
1944	-0.0602	0.672	
1945	0.0769	0.656	1945
1946	0.1512	0.828	
1947	0.0902	0.958	
1948	0.0455	1.006	
1949	0.0206	1.049	
1950	0.0532	1.047	
1951	0.0454	1.156	
1952	-0.0081	1.138	
1953	0.0280	1.139	
1954	0.0962	1.194	
1955	0.0688	1.272	
1956	0.0368	1.332	
1957	-0.0065	1.345	
1958	-0.0121	1.319	
1959	0.0465	1.321	
1960	0.0685	1.412	1960
1961	0.0639	1.458	
1962	0.0932	1.539	
1963	0.0818	1.645	
1964	0.0590	1.703	
1965	0.0962	1.763	
1966	0.0425	1.815	
1967	0.0887	1.848	
1968	0.1062	1.953	
1969	0.1392	2.064	
1970	0.1113	2.231	
1971	0.0878	2.286	
1972	0.1090	2.367	
1973	0.0339	2.504	
1974	-0.0622	2.435	
1975	0.0261	2.340	1975
1976	0.0549	2.491	
1977	0.0177	2.450	
1978	0.1039	2.526	1978
1979	0.0105	2.658	
1980	-0.1141	2.547	
1981	-0.1075	2.430	
1982	-0.0695	2.332	1982
1983	-0.0257	2.291	
1984	0.0265	2.281	
1985	0.0276	2.344	
1986	0.0078	2.336	
1987	0.0099	2.359	1987
1988	0.0551	2.356	
1989	0.0203	2.470	
1990	-0.0135	2.412	1990
1991	-0.0044	2.442	
1992	-0.0400	2.404	
1993	-0.0204	2.362	
1994	0.0235	2.363	
1995	0.0630	2.409	1995
1996	0.0248	2.489	
1997	0.0195	2.459	
1998	0.0276	2.528	
1999	0.0061	2.514	
2000	0.0396	2.540	2000
2001	0.0317	2.593	
2002	0.0390	2.603	
2003	0.0482	2.671	
2004	0.0132	2.700	
2005	-0.0039	2.698	2005
2006	-0.0217	2.692	
2007	-0.0476	2.654	
2008	-0.1267	2.597	
2009	-0.0759	2.401	2009
2010	-0.0421	2.445	2010
2011	-0.0670	2.317	2011
2012	-0.0539	2.271	2012
2013	-0.1036	2.209	
2014	-0.1453	2.064	



[Contents](#)

Total CO₂ emissions from fossil fuel consumption and cement production, North America, 1790-1910, (billions of tonnes)

Source: Boden, T. A., Marland, G., and Andres, R. J.: Global, Regional, and National Fossil-Fuel CO₂ Emissions, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tenn., U.S.A., doi 10.3334/CDIAC/00001_V2017, 2017; available at: http://cdiac.ess-dive.lbl.gov/trends/emis/overview_2014.html
Frequency: Decade before 1880, yearly after 1880, End of period

Observation date	Absolute change (billions of tonnes)	Emission (billions of tonnes)	Label
1790	0.0000	0.000	
1800	0.0000	0.000	
1810	0.0000	0.000	
1820	0.0001	0.001	
1830	0.0003	0.002	
1840	0.0009	0.006	
1850	0.0021	0.020	
1860	0.0040	0.048	
1870	0.0078	0.100	
1880	0.0191	0.204	1880
1881	0.0190	0.216	
1882	0.0228	0.242	1882
1883	0.0171	0.261	
1884	0.0095	0.276	
1885	0.0100	0.280	1885
1886	0.0186	0.296	
1887	0.0455	0.318	1887
1888	0.0147	0.387	
1889	0.0135	0.347	
1890	0.0473	0.414	1890
1891	0.0251	0.441	
1892	0.0138	0.464	
1893	-0.0126	0.469	1893
1894	0.0123	0.439	
1895	0.0282	0.493	
1896	0.0108	0.496	1896
1897	0.0328	0.515	1897
1898	0.0648	0.561	1898
1899	0.0612	0.645	1899
1900	0.0603	0.683	1900
1901	0.0534	0.745	1901
1902	0.0885	0.790	1902
1903	0.0616	0.922	1903
1904	0.0488	0.913	1904
1905	0.0787	1.020	1905
1906	0.1145	1.071	1906
1907	0.0138	1.249	1907
1908	-0.0200	1.098	1908
1909	0.1112	1.209	1909
1910	0.0540	1.321	1910
1911	0.0438	1.317	
1912	0.1014	1.408	1912
1913	-0.0122	1.519	
1914	-0.0465	1.384	
1915	0.1043	1.426	
1916	0.1637	1.593	
1917	0.1212	1.754	
1918	-0.1003	1.835	
1919	-0.0074	1.853	
1920	-0.0253	1.820	
1921	-0.1589	1.502	
1922	0.2423	1.503	
1923	0.1352	1.987	
1924	-0.0854	1.773	
1925	0.1002	1.816	
1926	0.0603	1.973	
1927	-0.0259	1.837	
1928	0.0613	1.922	
1929	-0.0425	2.059	
1930	-0.2502	1.837	
1931	-0.2550	1.559	
1932	-0.0711	1.327	
1933	0.0938	1.417	
1934	0.0762	1.514	
1935	0.1413	1.569	1935
1936	0.1570	1.797	
1937	-0.0989	1.883	
1938	-0.0601	1.599	
1939	0.1905	1.763	
1940	0.1982	1.980	1940
1941	0.1724	2.159	
1942	0.1229	2.325	
1943	0.1279	2.405	
1944	0.0403	2.581	
1945	-0.0947	2.486	1945
1946	0.0692	2.391	
1947	0.1721	2.624	
1948	-0.1596	2.738	
1949	-0.0227	2.305	
1950	0.2350	2.690	
1951	0.0072	2.775	
1952	-0.0043	2.705	
1953	-0.0292	2.766	
1954	0.0624	2.646	
1955	0.1983	2.891	
1956	0.0601	3.043	
1957	-0.0598	3.011	
1958	-0.0017	2.923	
1959	0.0790	3.008	
1960	0.0320	3.081	1960
1961	0.0554	3.072	
1962	0.1277	3.192	
1963	0.1486	3.328	
1964	0.1562	3.491	
1965	0.1636	3.640	
1966	0.1671	3.818	
1967	0.1567	3.974	
1968	0.1771	4.132	
1969	0.2675	4.329	
1970	0.1885	4.667	
1971	0.1377	4.706	
1972	0.2210	4.942	
1973	0.0212	5.148	
1974	-0.1740	4.884	
1975	0.0120	4.800	1975
1976	0.1733	5.008	
1977	0.1470	5.146	
1978	0.0866	5.302	1978
1979	-0.0701	5.339	
1980	-0.1889	5.162	
1981	-0.2223	4.962	
1982	-0.1075	4.718	1982
1983	0.0895	4.747	
1984	0.0820	4.897	
1985	-0.0001	4.911	
1986	0.1025	4.897	
1987	0.2238	5.116	1987
1988	0.1492	5.344	
1989	-0.0450	5.414	
1990	-0.0853	5.254	1990
1991	0.0459	5.243	
1992	0.1132	5.346	
1993	0.1003	5.470	
1994	0.0631	5.547	
1995	0.0901	5.596	1995
1996	0.1316	5.727	
1997	0.0879	5.859	
1998	0.0780	5.903	
1999	0.1601	6.015	
2000	0.0518	6.223	2000
2001	-0.0337	6.119	
2002	0.0525	6.156	
2003	0.0738	6.224	
2004	0.0591	6.303	
2005	-0.0336	6.342	2005
2006	-0.0019	6.236	
2007	-0.0330	6.338	
2008	-0.2713	6.170	
2009	-0.1224	5.796	2009
2010	0.0133	5.925	2010
2011	-0.1465	5.822	2011
2012	-0.0752	5.632	2012
2013	0.0772	5.787	
2014	0.1151		

