

Bidston Observatory minimum monthly temperatures recorded (°C)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1867	-6.5	-1.8	-4.6	2.4	1.1	5.7	8.7	9.1	6.3	1.6	0.3	-2.8	-6.5
1868	-3.7	0.2	-1.1	-0.9	2.1	8.1	10.9	10.6	5.2	-0.5	-1.2	-1.5	-3.7
1869	-2.1	-0.3	-1.4	1.9	3.1	6.9	8.7	5.2	7.1	0.6	-1.3	-4.8	-4.8
1870	-4	-5.3	-2.1	0.2	3.1	7.7	9.4	9.3	5.3	2.3	-2.5	-8.3	-8.3
1871	-7.2	-2.3	-0.9	0.2	1.7	5.2	8.8	8.5	4.7	3.4	-1	-5.1	-5.1
1872	-2	1.4	-1.4	1.2	1.6	3.4	10	9.9	5.4	0.1	0	-2.1	-2.1
1873	-2.1	-4.4	-1.2	0.8	2.6	6.3	8.3	9.2	5	0.8	-5.1	-4.2	-4.4
1874	-0.8	-4.7	-3.6	1.2	3.4	6.8	10	9.8	6.4	5.6	-2.4	-8.1	-8.1
1875	-3.3	-2.7	-1.4	1	5.8	7.9	8.8	9.7	8.9	2.2	-1.8	-3.4	-3.4
1876	-5.7	-5.6	-2.4	-0.3	2.8	6.7	8.3	5.6	7.8	2.2	-1.7	-1.7	-5.7
1877	-0.3	-3.1	-1.2	0.9	0.7	8.7	6.6	9	5.6	3.6	1.1	-1.1	-3.1
1878	-2.8	-2.1	-1.1	0.3	5	7.6	10.6	11.7	7.8	2.1	-1.5	-10.7	-10.7
1879	-11.3	-2.8	-1.3	-1.2	2.1	6.3	9.4	8.8	4.8	2.6	-2.2	-5.8	-11.3
1880	-6.8	-1.4	-0.6	2.2	3.8	5.6	9.7	10.9	8.5	-1.3	-5.3	-1.9	-6.8
1881	-12.8	-1.9	-2.1	-1.7	3.4	5.3	9.8	7.8	7.4	-0.3	1.1	-2.1	-12.8
1882	0.6	-1.8	0.8	1.1	3.3	6.6	9.4	8.9	5.3	1.9	-0.9	-8.2	-8.2
1883	-1.3	-0.3	-3.7	1.9	1.3	4.8	9.3	9.7	6.9	3.4	0.3	-0.8	-3.7
1884	0.3	-1.1	0.1	-0.7	3.6	7.7	9.6	8.1	6.9	3.3	-1.4	-2.2	-2.2
1885	-3	-2.2	-0.2	-0.4	3.1	6.9	8.8	6.5	3.7	1.9	-1.1	-2.6	-3
1886	-3.8	-2.8	-6	0.9	3.3	7	9.3	9	5.4	4.7	3.7	-6	-6
1887	-4.1	-3.7	-2.8	-0.1	3.1	8.2	9.6	8	5.9	-0.1	-1.6	-2.6	-4.1
1888	-2	-3.6	-2.1	-0.3	4.2	6.7	7.4	7.6	4.7	0.3	1.8	-3.2	-3.6
1889	-5.4	-5.8	-3.7	0.7	4.4	8.4	8.8	9.9	5.6	3.4	0.6	-2.9	-5.8
1890	-5.3	-1.8	-3.5	1.4	5.4	6.6	8.8	6.4	9.1	1.3	-2.8	-8.4	-8.4
1891	-6.8	-2.3	-3.2	0.8	-0.8	5.4	9.9	8.1	8.3	1.8	-0.7	-6.1	-6.8
1892	-5.4	-6	-2.6	-1.2	2.4	6.1	9.6	7.1	4.9	-1.2	0.2	-5.6	-6
1893	-7.9	-1.4	-0.7	1.3	5.7	8.9	11	8.9	5.2	0.4	-0.7	-2.8	-7.9
1894	-10.8	-3.8	0.8	2.7	2.1	6.8	9.3	9.9	5.7	0.6	1.8	-3.3	-10.8
1895	-5.7	-11.3	-2.3	0.6	3.8	6.2	9.9	9.8	7	-2.9	1.8	-4.2	-11.3
1896	-4.1	-3.2	1.1	3.2	5	9.6	10.2	8.5	6.8	-1	-2.4	-2.1	-4.1
1897	-3.5	0	-1.2	-0.6	2.4	7.2	9.6	9.7	5.6	4.4	0.7	-1.7	-3.5
1898	-0.2	-3.2	-1.8	-0.4	3.2	6.1	9.7	10.3	5.1	3.7	-2.2	-0.3	-3.2
1899	-5.2	-2.7	-2.9	0.8	1.6	8.3	10.3	10.1	4.7	0.8	-0.7	-6.3	-6.3

Bidston Observatory minimum monthly temperatures recorded (°C)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1900	-1.1	-6.6	-4	0.9	1.8	6.8	10.3	8.2	7.4	3.5	1.4	-0.2	-6.6
1901	-5.2	-5.3	-2.8	1.3	3.2	6.8	11.2	9.2	7.9	3.8	-3.7	-5.2	-5.3
1902	-2.7	-8.2	-0.2	-0.6	1.8	6	8.1	9.1	4.9	3.7	-0.4	-4.1	-8.2
1903	-4.1	0.4	0.3	-0.4	3	4.6	9.7	9.1	4.8	5.1	-2.1	-2.9	-4.1
1904	-2.1	-4.8	-2.6	2.6	2.3	7.1	10.4	8.7	6.3	3.2	-2.6	-3.7	-4.8
1905	-4.8	-1.1	1.2	0	3.6	6	9.6	9.3	4.3	0.9	-3.7	-1	-4.8
1906	-0.4	-1.7	-2.7	-0.4	1.4	7.3	9.2	11.1	5.3	2.6	-0.4	-3.5	-3.5
1907	-6.4	-3.8	-1.4	1.3	1.9	6.8	8.3	8.6	5.4	2.1	-2.1	-0.6	-6.4
1908	-8.8	-0.9	-1.1	-2.2	5.6	6.8	9.3	7.9	6.7	2.3	-2.1	-7.1	-8.8
1909	-4.8	-2.6	-3.9	0.2	2.2	5.8	9.8	9.4	5.2	-0.7	-1.1	-5.4	-5.4
1910	-5.9	0	-0.2	0.2	2.8	8.9	9.1	9.1	5.4	3.9	-2.6	0.9	-5.9
1911	-4.1	-3.5	0.2	-2.3	5.4	7.1	9.3	10.2	5	0.9	-0.8	0.7	-4.1
1912	-4.1	-6	0.6	1.5	5.6	7.3	9.7	7.1	6.1	1.6	-3.7	-0.2	-6
1913	-2.7	-1.4	-1.1	0.3	2.3	7.8	7.4	8.8	7.2	2.3	1.7	-1.8	-2.7
1914	-2.4	0.2	0.2	2.9	1.3	5.9	9.7	9.6	4.1	4.9	-0.4	-2	-2.4
1915	-1.3	-1.4	-2.6	1.8	1.1	6.8	9.9	8.7	4.1	2.3	-4.1	-0.1	-4.1
1916	2	-0.4	-1.7	-0.4	3	5.6	10.1	9.3	5.7	1.1	-0.9	-3.4	-3.4
1917	-3.1	-9	-6.3	-5	0.7	7.1	8.7	10.4	7.6	1.6	2	-2.1	-9
1918	-4.3	0.1	-0.9	-0.1	4.3	7.4	8.1	8.2	5.7	3.3	0.2	0.2	-4.3
1919	-0.8	-6.7	-2.1	0.2	4.3	6.7	9.3	6.8	1.7	2.3	-2.2	1	-6.7
1920	-1.7	-0.6	-0.3	2.9	4.7	5.9	9.4	7.4	6.9	3.3	-0.9	-6.1	-6.1
1921	0.1	0	-1.7	0.8	1.8	6.4	9	6.7	8	3.9	-2.1	-2.2	-2.2
1922	-3.9	-4.8	-2.6	0.4	3.5	7.3	9.1	9	5.7	0.2	1.1	1.6	-4.8
1923	2	-1.3	1.8	0.4	2.3	7.7	10.4	7.9	6.4	4.1	-1.1	-1	-1.3
1924	-3.1	-2.7	-1.9	-1.4	3.5	6.2	9.4	9.5	6.2	2.8	0.4	1.1	-3.1
1925	0.7	0	-1.8	0.4	5	7.9	8.6	9.5	5.6	4.4	-3.3	-3.4	-3.4
1926	-3.2	0	-0.2	1.3	1.9	7.4	10.4	10.9	5.9	-1.4	0.4	-1.1	-3.2
1927	-2.6	-3.9	0.7	1.7	4.3	6.7	10.6	10.7	7.4	4.5	-0.7	-4.3	-4.3
1928	-0.6	0.6	-2.9	-0.6	3.3	6.2	8.9	9.8	5.1	5.2	-0.3	-3.8	-3.8
1929	-1.3	-8.8	-3.1	0	3.4	6.2	9.1	8.8	7.8	2.8	-1.6	-0.8	-8.8
1930	-1.1	-3.7	-1.4	1.2	3.2	7.8	10.6	8.8	7.8	4.6	-0.8	-1.7	-3.7
1931	-4.9	-0.6	-5	1.1	3.6	6.7	10.6	7.7	5.8	0	1.9	-1.3	-5
1932	-2.7	-1.7	-3.1	1.6	2.9	5.2	10	9.4	4.3	2.8	0.7	-1.4	-3.1

Bidston Observatory minimum monthly temperatures recorded (°C)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1933	-4.4	-1.7	0.9	0.1	5.6	8.5	12.1	10	6.7	3.9	0	-3.3	-4.4
1934	-2.8	-1.6	-1.3	0.3	3.4	6.6	11.8	7.3	6.7	0.2	0	3.7	-2.8
1935	-0.6	-0.6	-1	1.1	0	6.6	9.6	9.4	7.8	1.8	0.9	-4.8	-4.8
1936	-4.9	-4.2	-0.8	0.4	3.9	5	9.6	6.5	6.5	3.3	-1.7	-1.7	-4.9
1937	-3.3	-1	-1.7	0.7	5.3	7.8	9.4	10.8	6.2	4.2	-0.8	-2.8	-3.3
1938	-1.7	-0.6	0.6	0.8	1.9	6.7	8.4	8.6	7.8	5.2	2.3	-4.5	-4.5
1939	-6.1	-4	0.9	1.8	3.1	6.4	8.5	10.8	5.2	1.6	3.3	-1.7	-6.1
1940	-9.6	-3.9	-2.1	0.6	6.3	9.1	10	10.1	6.3	1.9	0.6	-0.2	-9.6
1941	-5.7	-3.3	-0.9	0.3	1.2	5.8	10.3	8.8	7.9	3.6	0.1	-1.5	-5.7
1942	-6.1	-4.8	-3.6	2	2.8	6.9	10.7	10.1	4.7	2.8	-0.4	-0.1	-6.1
1943	-1.8	-0.3	-0.2	4	1.3	8.3	9.5	9.3	4.6	3.9	1.1	-3.3	-3.3
1944	-2.2	-2.1	-0.8	1.2	2.9	7.9	11.1	8.3	6.5	3.4	0.6	-3.9	-3.9
1945	-8.1	0.8	0.7	0.6	2.7	7.8	9.8	10.6	8.3	5.6	1.9	-1.7	-8.1
1946	-5.7	-2.2	-2.7	3.6	2.5	6.7	9.6	9.4	8.4	0.9	2	-3.8	-5.7
1947	-7.7	-7.3	-6.7	0.7	2.8	6.8	8.9	11.3	6.9	3.2	-0.8	-3.1	-7.7
1948	-0.2	-3.2	-0.1	1.8	2.2	7.5	9.7	6.9	5.4	-0.2	1	-3.9	-3.9
1949	-0.6	-2.8	-2.2	2.6	4.6	5.7	10.1	9.8	10.2	2.1	0.8	-0.7	-2.8
1950	-3.3	-1.6	0.6	-0.1	4.9	7.8	10.7	9.7	7.7	0.8	-0.5	-3.2	-3.3
1951	-1.9	-2.8	-1.6	0.4	2.4	5.7	9	9.1	6.3	2.4	3.1	-1.6	-2.8
1952	-4.2	-4.2	-1.7	0.6	4.6	6.6	10.6	9.4	4.7	0.8	-4.1	-1.9	-4.2
1953	-3.1	-1.6	-1.9	1.2	5.2	6.3	10.4	10.1	8.6	2.3	2.9	1.4	-3.1
1954	-4.6	-6.6	-3.2	2.5	4.4	7.2	7.2	8.1	5.8	2.9	-1.1	-0.1	-6.6
1955	-3.9	-5.1	-2.2	2.5	2.4	5.5	10	10.4	8.3	0	-1.7	-3.1	-5.1
1956	-1.4	-8.3	-1.4	1.3	4.8	4.9	9.7	6.2	6.3	2.7	-1.7	-5	-8.3
1957	-1.6	0	0.9	2.2	3.3	7.7	10.4	7.2	6.1	4.5	-1.4	-2.1	-2.1
1958	-6.4	-2.9	-3.9	-1	4.9	7.8	9.4	9.1	8.4	5	0.7	-0.7	-6.4
1959	-5.3	-1.8	1.7	1.7	4.7	8.3	10.1	8.4	7.3	4.3	-0.7	1.2	-5.3
1960	-2.8	-2.5	-0.1	2.9	4	7.7	8.9	9.2	7.4	4.4	1.9	-2.1	-2.8
1961	-1.9	1.8	2.6	0.8	4.8	8.1	8.6	10.1	7.5	5.7	0.2	-6.5	-6.5
1962	-3.3	-2.2	-3.2	0.6	5.1	4.6	10.1	9.4	7.2	1.7	-0.6	-6.5	-6.5
1963	-8.4	-7	-2.8	1.2	4.9	8.4	9.1	9.5	8.1	5.3	1.8	-5.4	-8.4
1964	-2.9	-2.8	-0.6	0.4	7.2	5.9	10.1	8.3	7.1	3.2	-0.4	-4.2	-4.2
1965	-1.7	-2.8	-7.5	0.7	4.9	8	8.6	9.9	7.8	4.9	-2.4	-3.2	-7.5

Bidston Observatory minimum monthly temperatures recorded (°C)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1966	-6.2	-1.8	0.8	-0.2	5.6	9.3	10.2	9.6	7.7	4.3	2.2	0.2	-6.2
1967	-2.9	0.2	0.7	-0.6	0.4	7.9	9.9	9.4	8.6	4.8	-0.2	-2.8	-2.9
1968	-2.7	-2.8	-1.8	-0.4	4.2	8.8	8.3	9.9	8.4	7.4	0.3	-3.1	-3.1
1969	-1.7	-6.1	-1.5	1.7	2.8	5.6	9.8	9.9	6.5	7.5	-0.2	-2.1	-6.1
1970	-4.9	-2.4	-2.9	-0.6	7.4	9.3	9.4	10.3	8.2	5.4	2	-2.2	-4.9
1971	-5.3	-1.5	-3.9	2.2	4.1	7.3	10.3	9.2	8.4	2.6	-0.5	-0.1	-5.3
1972	-5.4	-0.7	0.2	2.8	3.9	5.9	8.2	8.8	5.5	4.1	1.2	-0.7	-5.4
1973	-3.4	-3.5	0.5	-1.3	3.8	6.8	9.7	8.6	7	2.6	-0.7	-0.8	-3.5
1974	-1.4	0.1	-0.6	1.5	4.9	7.1	10.5	7.5	4.3	2.7	1.3	1.4	-1.4
1975	1.1	-1	-1.5	0.2	4.2	4.9	10.4	10.9	5.9	4	0.2	-1.7	-1.7
1976	-1.5	-0.4	-2	-0.5	3.3	8.9	10.6	13.2	7.3	4.5	0.6	-5.6	-5.6
1977	-2.3	-0.5	0	0.6	4.2	6.2	9.4	8.9	6.9	6.3	0.2	0.3	-2.3
1978	-2.1	-4.5	1.3	-2.5	5.5	7.7	8.4	10.2	9.4	7.6	-1.7	-6.6	-6.6
1979	-5.7	-5.2	-0.8	0.5	1.1	8.3	10.2	9.3	5.6	3.2	-1.3	-0.9	-5.7
1980	-2.2	-1	-1.9	2.5	3.8	8	9.4	8.7	8.5	2.1	-0.1	-0.4	-2.2
1981	-0.2	-2.4	1	0.3	4.1	8	9.5	10.7	7.5	2.6	2.9	-9.1	-9.1
1982	-10.7	-2.1	1.3	2.7	2.4	8.9	10.9	9.2	6.7	3.2	-0.3	-2.9	-10.7
1983	0.2	-2.8	1.9	0.7	3.7	6.7	9.9	8.9	8.3	1.6	-1.6	-1.6	-2.8
1984	-2.1	-3	0.5	-0.4	4.1	7.1	10	10.9	7.4	4	0.3	-0.3	-3
1985	-6	-5.5	-2.5	1.6	4.8	5.7	10.2	9	9.7	4.4	-2.5	-3.8	-6
1986	-1.2	-4.7	-4	-0.4	5.5	7.7	10.6	9.5	5.5	4.8	0.6	1.1	-4.7
1987	-7.6	-3.2	-2.4	2.1	2.7	7.8	10.9	9.6	6.6	3.3	1.4	-1.2	-7.6
1988	0.2	-0.1	-0.1	0.5	5.7	8.8	9.5	9.7	6.9	1.3	-0.6	0.2	-0.6
1989	0.1	0.1	0	-0.3	2.6	5.4	10.7	8.2	9	6.3	0.1	-1.3	-1.3
1990	-0.3	1.5	1.3	0.1	6.7	9.2	9.5	10.9	6.9	4.9	-0.5	-2.4	-2.4
1991	-1.4	-3.7	1.2	2.2	4.4	5.5	12.1	11.2	6.2	5.6	2	-4.9	-4.9
1992	-3.6	-1.6	1.3	2.6	5.8	9.5	12.1	8.5	7.8	2.7	1.6	-3.1	-3.6
1993	-3.3	-0.2	0.3	2.8	4.6	9.6	8.7	9	7.1	1.1	-4.1	-0.1	-4.1
1994	0.3	-3.3	3.1	1	5.5	8.4	11.1	10.7	8	4.4	3.2	-1.2	-3.3
1995	-1.8	1.8	-0.2	2.2	2.6	8.4	12.1	11.2	8	5	0.4	-6.3	-6.3
1996	-3.5	-2.8	-1.1	0.4	2.1	6.9	9.9	11.5	7	5.9	-0.1	-1.7	-3.5
1997	-2	1.9	1.7	2.6	1.8	8	8.3	10.4	8.2	0.1	2.3	-0.2	-2
1998	0	-0.2	1	0.2	5.4	5.9	11	10.6	6.9	4.9	0.5	0.1	-0.2

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1999	-0.5	-0.8	0.1	0.8	6.1	6.6	10	9.2	7	4.9	0.9	-3	-3
2000	1.2	0	1.1	1.8	5.9	8.2	10.5	10.8	7.4	1.6	2.5	-2.2	-2.2
2001	-2.3	-2.2	-3.4	1.7	3.5	6.5	9	10.7	7.4	8.1	1.4	-5.7	-5.7
2002	-4.2	0.6	0.5	1.4	5.3	5.6	8.5						