

Radcliffe Meteorological Station
 School of Geography - University of Oxford
 Monthly Summary of Weather at Oxford for *December 2021*

		Difference from long period mean
Mean air temperature (°C)	7.3	2.7
Absolute maximum air temperature (°C)	15.3 (30 th)	2.5
Lowest maximum air temperature (°C)	5.8 (19 th)	
Mean maximum air temperature (°C)	9.9	2.4
Absolute minimum air temperature (°C)	-2.7 (22 nd)	2.1
Mean minimum air temperature (°C)	4.9	2.7
Absolute minimum grass temperature (°C)	-7.7 (22 nd)	0.4
Mean minimum grass temperature (°C)	2.4	2.7
Absolute minimum concrete temperature (°C)	-4.6 (22 nd)	0.7
Mean minimum concrete temperature (°C)	3.3	2.3
Mean soil temperature at 30 cm (°C)	7.0	1.7
Mean soil temperature at 100 cm (°C)	8.8	
Highest daily rainfall (mm)	17.7 (24 th)	
Total rainfall (mm)	71.4	14.8
Total bright sunshine (hours)	33.4	-16.4
Mean daily bright sunshine (hours)	1.1	
Mean wind speed (knots)	10.2	0.4
No. of rain days (0.2 mm or more rainfall)	22.0	4.9
No. of wet days (1.0 mm or more rainfall)	15.0	
No. of days with minimum temperature less than 0°C	2.0	-6.6
No. of days with ground temperature less than 0°C	9.0	-7.8
No. of days with fog at 0900 GMT	1.0	-2.9
No. of days with snow lying at 0900 GMT	0.0	-1.7

Bold denotes anomalies in excess of **one** standard deviation above/below the long-term mean for December, while **bold** with an asterisk (*) denotes two standard deviations above/below.

Notes

December was an unseasonably warm month, with a number of the temperature metrics one standard deviation above the long-term average. A mean air temperature of 7.3°C made it the 12th warmest December in the Oxford record, however an exceptionally mild end to the month saw the last 3 days of 2021 all break date records for maximum temperature (29th: 14.8°C, 30th: 15.3°C, 31st: 15.1°C), with the 30th the 4th warmest December day on record. Total rainfall (71.4 mm) was average for the time of year, although the 17.7 mm recorded on the 24th made it the wettest Christmas Eve in Oxford since 1924. Total sunshine hours (33.4) were one standard deviation below the long-term mean, making it the dullest December month since 2010.

All available reports can be found on our website (www.geog.ox.ac.uk/research/climate/rms). Please contact rms@ouce.ox.ac.uk for further information or to request data from the weather station.

Matt Clements (26/01/2022)

Radcliffe Meteorological Observer