

Radcliffe Meteorological Station
 School of Geography - University of Oxford
 Monthly Summary of Weather at Oxford for *December 2023*.

		Difference from long period mean
Mean air temperature (°C)	7.6	3.0
Absolute maximum air temperature (°C)	13.8 (21 st)	1.0
Lowest maximum air temperature (°C)	2.6 (1 st)	
Mean maximum air temperature (°C)	10.2	2.7
Absolute minimum air temperature (°C)	-3.4 (3 rd)	1.4
Mean minimum air temperature (°C)	5.2	3.0
Absolute minimum grass temperature (°C)	-7.3 (1 st)	0.8
Mean minimum grass temperature (°C)	2.4	2.8
Absolute minimum concrete temperature (°C)	-4.3 (1 st)	1.0
Mean minimum concrete temperature (°C)	3.1	2.0
Mean soil temperature at 30 cm (°C)	7.2	1.9
Mean soil temperature at 100 cm (°C)	8.9	
Highest daily rainfall (mm)	20.3 (30 th)	
Total rainfall (mm)	117.2	61.6*
Total bright sunshine (hours)	29.7	-19.9
Mean daily bright sunshine (hours)	1.0	
Mean wind speed (knots)	10.9	1.1
No. of rain days (0.2 mm or more rainfall)	23	6
No. of wet days (1.0 mm or more rainfall)	18	
No. of days with minimum temperature less than 0°C	5	-4
No. of days with ground temperature less than 0°C	8	-9
No. of days with fog at 0900 GMT	1	-3
No. of days with snow lying at 0900 GMT	0	-2

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, and bold with two asterisks (**) denotes three standard deviations above/below.

Notes

December 2023 was a dull and wet month in Oxford. Bright sunshine across the month was just 29.7 hours, less than an hour for each day of the month and the dulliest December since 2010 (which had shockingly low 14 bright sunshine hours for the month). Rainfall was significantly above expected, with 117.2mm of rainfall for the month making December 2023 the wettest December since 1989. This was very clear in the local flooding of the Thames into early January. As is typical of the winter weather patterns that bring wet weather to the UK, average temperatures were comfortably above average and the number of frost days well below what would be expected for the month

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.

Charlie Knight (22.01.2024)

Radcliffe Meteorological Observer