

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

		Difference from long period mean
Mean air temperature (°C)	17.7	2.8*
Absolute maximum air temperature (°C)	29.8 (25 th)	3.0
Lowest maximum air temperature (°C)	15.2 (6 th)	
Mean maximum air temperature (°C)	23.6	3.7*
Absolute minimum air temperature (°C)	6.3 (3 rd)	0.9
Mean minimum air temperature (°C)	12.1	1.8
Absolute minimum grass temperature (°C)	4.7 (5 th)	3.1
Mean minimum grass temperature (°C)	10.1	2.0
Absolute minimum concrete temperature (°C)	6.6 (3 rd)	1.1
Mean minimum concrete temperature (°C)	12.8	1.9
Mean soil temperature at 30 cm (°C)	19.3	2.7*
Mean soil temperature at 100 cm (°C)	16.6	
Highest daily rainfall (mm)	23.3 (19 th)	
Total rainfall (mm)	41.5	-12.1
Total bright sunshine (hours)	244.2	47.3
Mean daily bright sunshine (hours)	8.1	
Mean wind speed (knots)	9.8	1.8
No. of rain days (0.2 mm or more rainfall)	9.0	-2.7
No. of wet days (1.0 mm or more rainfall)	6.0	
No. of days with minimum temperature less than 0°C	0.0	0.0
No. of days with ground temperature less than 0°C	0.0	-0.3
No. of days with fog at 0900 GMT	0.0	-0.1
No. of days with snow lying at 0900 GMT	0.0	0.0

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

Notes

June 2023 was the hottest UK-wide June in the Met Office record, and while temperatures were much higher than usual in Oxford, it was only the 4th warmest June recorded at RMS Oxford. Records were broken for the highest June average 30cm soil temperature (19.3°C) and the highest mean minimum concrete temperature (12.8°C), both surpassing records set in June 2017. The average mean maximum temperature is the second highest June in its 142-year record, only lower than the ‘long hot summer’ of 1976’s mean maximum June temperature of 24.4°C. Other notable high statistics recorded this June include the 5th highest June mean minimum temperature, the 25th most sunshine hours in June, the 16th highest absolute maximum June temperature, and the 5th highest mean minimum June grass temperature. High pressure over the UK caused warmer temperature values early in the month. This was followed by warm humid air arriving from the Bay of Biscay and the Atlantic Ocean southwards of the UK’s latitude, resulting in unusually warm temperatures across 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.

Sophie Harbord (02/08/2023)

Radcliffe Meteorological Observer