

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

		Difference from long period mean
Mean air temperature (°C)	6.3	2.1
Absolute maximum air temperature (°C)	14.8	2.0
Lowest maximum air temperature (°C)	7.6	
Mean maximum air temperature (°C)	10.4	2.8
Absolute minimum air temperature (°C)	-4.1	0.3
Mean minimum air temperature (°C)	2.8	1.3
Absolute minimum grass temperature (°C)	-6.6	1.8
Mean minimum grass temperature (°C)	-0.3	0.7
Absolute minimum concrete temperature (°C)	-5.1	0.0
Mean minimum concrete temperature (°C)	1.1	0.1
Mean soil temperature at 30 cm (°C)	5.4	1.1
Mean soil temperature at 100 cm (°C)	6.2	
Highest daily rainfall (mm)	5.9	
Total rainfall (mm)	7.6	-34.0
Total bright sunshine (hours)	91.7	20.0
Mean daily bright sunshine (hours)	3.3	
Mean wind speed (knots)	7.5	-2.4
No. of rain days (0.2 mm or more rainfall)	5.0	-8.7
No. of wet days (1.0 mm or more rainfall)	1.0	
No. of days with minimum temperature less than 0°C	10.0	0.5
No. of days with ground temperature less than 0°C	16.0	-0.6
No. of days with fog at 0900 GMT	1.0	-1.9
No. of days with snow lying at 0900 GMT	0.0	-3.0

Bold denotes anomalies in excess of **one** standard deviation above/below the long-term mean for February.

February 2023 was an exceptionally dry month with total rainfall 34.0 mm below long-term mean, in excess of one standard deviation (SD). It was the driest February at the RMS since 1993 and the joint 13th driest February in RMS's 254 years of rainfall record. With only 5 days of rain days, it was also the February with the fewest rain days since 1993 and the joint-3rd February with the fewest rain days. The month was warmer than usual, ranking as the joint-11th warmest February for mean maximum temperature, with mean air temperature also exceeding 1 SD of long-term mean. Sunshine hour was close to exceeding one SD above long-term mean (SD 20.7 hours) and the mean windspeed was 1 SD below long-term mean. Overall, February 2023 was a sunny, mild, and dry month, registering the lowest February rainfall in 30 years at the RMS.

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.

Anlin Chen (24/03/2023)

Radcliffe Meteorological Observer