

Radcliffe Meteorological Station
 School of Geography - University of Oxford
 Monthly Summary of Weather at Oxford for *February 2024*.

			Difference from 1991-2020 average
Temperature			
Mean air temperature	°C	8.6	+3.1
Mean daily maximum temperature	°C	11.5	+2.9
Mean daily minimum temperature	°C	5.7	+3.4*
Highest maximum temperature	°C	16.8	+3.3
Lowest maximum temperature	°C	6.1	+3.2
Highest minimum temperature	°C	11.9	+3.4
Lowest minimum temperature	°C	-1.2	+2.1
Air frosts (screen minimum < 0 °C)	days	2	-5.6
Mean minimum grass temperature	°C	3.9	+4.5*
Lowest grass minimum temperature	°C	-3.8	+3.9
Ground frosts (grass minimum < 0 °C)	days	4	-11.4
Mean concrete minimum temperature	°C	4.4	+3.7*
Lowest concrete minimum temperature	°C	-2.2	+3.0
Mean soil temperature at 30 cm at 0900 UTC	°C	7.9	+2.8*
Mean soil temperature at 100 cm at 0900 UTC	°C	8.1	
Precipitation			
Total precipitation	mm	124.1	262%**
Wettest day	mm	28.8	242
No. of rain days (0.2 mm or more rainfall)	days	16	+2.2
No. of wet days (1.0 mm or more rainfall)	days	11	+1.5
Sunshine duration			
Total bright sunshine	hours	62.8	77%
Mean daily bright sunshine	hours	2.17	-0.7
Sunniest day	hours	8.4	
Mean wind speed at 0900 UTC (at 10 m)	knots	7.7	
No. of days with fog at 0900 UTC	days	0	-2.4
No. of days with snow lying at 0900 UTC	days	0	-1.7

Bold denotes anomalies in excess of **one** standard deviation above/below the long-term mean, while **bold** with an asterisk (*) denotes two standard deviations above/below, and bold with two asterisks (**) denotes three standard deviations above/below. Standard deviations are not reported for counts (N. of days), lowest maximum/highest minimum temperature, wettest day and mean daily bright sunshine.

Notes

February 2024 was a month of records in Oxford. With 262% of expected rainfall, it was the wettest February on record at RMS, with 124.1mm of rain exceeding the previous record of 119.6mm set in February 1937. The month was also the warmest in our records, with a mean air temperature of 8.6°C exceeding 8.25°C set in 1990. Not a single air frost (where minimum screen temperature falls below 0 °C) was recorded for month, where >7 would otherwise be expected.

A peculiarity in this month's rainfall record is that this February benefited from an extra day, being a leap year, whereas 1937 did not. The rainfall record would not have been broken without the 6.7mm of rain that fell on February 29th.

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 (07.03.2024)

Radcliffe Meteorological Observer