

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

			Difference from 1991-2020 average
Temperature			
Mean air temperature	°C	7.2	+1.8
Mean daily maximum temperature	°C	9.3	+1.1
Mean daily minimum temperature	°C	5.0	+2.4
Highest maximum temperature	°C	14.3	+1.1
Lowest maximum temperature	°C	5.3	+3.5
Highest minimum temperature	°C	11.9	+2.2
Lowest minimum temperature	°C	1.6	+5.8*
Air frosts (screen minimum < 0 °C)	days	0	-8.6
Mean minimum grass temperature	°C	2.9	+3.2
Lowest grass minimum temperature	°C	-1.9	+6.1*
Ground frosts (grass minimum < 0 °C)	days	5	-11.1
Mean concrete minimum temperature	°C	3.9	+3.0
Lowest concrete minimum temperature	°C	-0.7	+4.7*
Mean soil temperature at 30 cm at 0900 UTC	°C	7.7	+1.7
Mean soil temperature at 100 cm at 0900 UTC	°C	9.4	
Precipitation			
Total precipitation	mm	45.2	68%
Wettest day	mm	8.8	58%
No. of rain days (0.2 mm or more rainfall)	days	18	+1.5
No. of wet days (1.0 mm or more rainfall)	days	9	-2.4
Sunshine duration			
Total bright sunshine	hours	20.1	36%*
Mean daily bright sunshine	hours	0.65	-1.2
Sunniest day	hours	4.5	
Mean wind speed at 0900 UTC (at 10 m)	knots	6.4	
No. of days with fog at 0900 UTC	days	4	+0.7
No. of days with snow lying at 0900 UTC	days	0	-1.4

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

December can be rather succinctly described as a gloomy end to 2024. A 10-day streak of days with no bright sunshine from the 23rd December to the 2nd January contributed to total bright sunshine hours of just 20.1 across the month, or 39 minutes a day. This is just 36% of that expected in an average December. These cloudy conditions were not associated with significant rainfall, which at 45.2mm was 68% of the expected total. Mean air temperature was however 1.8°C higher than the standard period average at 7.2°C. Remarkably, during the month not a single air frost was recorded, where 8.6 would be expected.

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 (12.01.2025)
Radcliffe Meteorological Observer