

Radcliffe Meteorological Station
 School of Geography - University of Oxford
 Monthly Summary of Weather at Oxford for *August 2022*

		Difference from long period mean
Mean air temperature (°C)	20.0	3.8*
Absolute maximum air temperature (°C)	33.4	6.0
Lowest maximum air temperature (°C)	19.0	
Mean maximum air temperature (°C)	26.5	5.2*
Absolute minimum air temperature (°C)	8.8	1.5
Mean minimum air temperature (°C)	14.4	2.3*
Absolute minimum grass temperature (°C)	3.0	-0.3
Mean minimum grass temperature (°C)	11.0	1.5
Absolute minimum concrete temperature (°C)	8.4	1.4
Mean minimum concrete temperature (°C)	14.1	1.8
Mean soil temperature at 30 cm (°C)	21.3	3.1*
Mean soil temperature at 100 cm (°C)	19.3	
Highest daily rainfall (mm)	2.9	
Total rainfall (mm)	4.3	-54.2
Total bright sunshine (hours)	246.5	66.7
Mean daily bright sunshine (hours)	8.2	
Mean wind speed (knots)	7.5	-0.4
No. of rain days (0.2 mm or more rainfall)	3.0	-10.2*
No. of wet days (1.0 mm or more rainfall)	2.0	
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	0.0
No. of days with fog at 0900 GMT	0.0	-0.2
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 August, bold with an asterisk (*) denotes **two** standard deviations.

August 2022 was an exceptionally hot month at the RMS, with a record-breaking mean air temperature of 20.0°C, which was 3.8°C above the long-term mean and 0.1°C above the previous record, 19.9°C, set in 1997 and 1995. The absolute maximum temperature, 33.4°C, occurred on August 12th, ranking as the 7th hottest August day since 1815. August 2022 had the 2nd highest mean maximum air temperature (26.5°C), 3rd highest mean minimum air temperature (14.4°C), and 3rd highest mean minimum concrete temperature (14.1°C). Its mean 30cm soil temperature was 21.3°C, breaking the previous 1995 record by 0.3°C. The total rainfall ranked the 5th lowest for August in the history of RMS and the number of rain days (0.2mm or more) was tied as the 2nd lowest. With 246.5 hours of sunshine, it also had the 6th longest August sunshine time on record. Overall, it was a very dry, sunny, and hot August, like many places in England this year, featuring multiple record-breaking measurements.

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 (13/10/2022)

Radcliffe Meteorological Observer