

Radcliffe Meteorological Station
 School of Geography - University of Oxford
 Monthly Summary of Weather at Oxford for *August 2020*

| | | Difference from long period mean |
|--|--------------------------|---|
| Mean air temperature (°C) | 18.6 | 2.4 |
| Absolute maximum air temperature (°C) | 34.4 (12 th) | 7.0* |
| Lowest maximum air temperature (°C) | 15.4 (29 th) | |
| Mean maximum air temperature (°C) | 23.6 | 2.3 |
| Absolute minimum air temperature (°C) | 9.0 (4 th) | 1.8 |
| Mean minimum air temperature (°C) | 14.5 | 2.5* |
| Absolute minimum grass temperature (°C) | 4.1 (4 th) | 0.8 |
| Mean minimum grass temperature (°C) | 12.2 | 3.0* |
| Absolute minimum concrete temperature (°C) | 8.3 (4 th) | 1.4 |
| Mean minimum concrete temperature (°C) | 14.4 | 2.2* |
| Mean soil temperature at 30 cm (°C) | 19.9 | 1.7 |
| Mean soil temperature at 100 cm (°C) | 18.5 | |
| Highest daily rainfall (mm) | 24.5 (24 th) | |
| Total rainfall (mm) | 113.7 | 55.3 |
| Total bright sunshine (hours) | 172.0 | -8.2 |
| Mean daily bright sunshine (hours) | 5.5 | |
| Mean wind speed (knots) | 9.0 | 1.2 |
| No. of rain days (0.2 mm or more rainfall) | 15.0 | 1.8 |
| No. of wet days (1.0 mm or more rainfall) | 11.0 | |
| 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, while **bold** with an asterisk (*) denotes two standard deviations above/below.

There was a sharp meteorological contrast in August 2020 between the first and second half of the month. The first half of the month was very warm and dry. Oxford experienced a meteorological heatwave from the 7th to the 12th, as maximum temperatures were in excess of 27°C for six days in a row. A tropical night was recorded on the 12th, with an overnight minimum of 20.4°C. This was the 4th warmest night on record at the RMS, and the 13th night of the record when the overnight minimum was equal to or exceeded 20°C. The second half of the month was cooler and wetter than average. Large daily rainfall totals were associated with Storm Ellen (18th, 18.4 mm) and Storm Francis (24th, 24.5 mm). Overall, temperature metrics were well above average for the month, while over double the usual rainfall amount was delivered. Sunshine hours were slightly below the long term mean.

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.

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Radcliffe Meteorological Observers