

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

|  |  | <b>Difference from long<br/>period mean</b> |
|--|--|---|
| Mean air temperature (°C)                          | 17.1                                     | 0.4   |
| Absolute maximum air temperature (°C)              | 25.9 (10 <sup>th</sup> )                 | -1.5  |
| Lowest maximum air temperature (°C)                | 16.3 (31 <sup>st</sup> )                 |   |
| Mean maximum air temperature (°C)                  | 21.9                                     | 0.6   |
| Absolute minimum air temperature (°C)              | 9.2 (30 <sup>th</sup> )                  | <b>1.9</b>                                  |
| Mean minimum air temperature (°C)                  | 13.0                                     | 0.9   |
| Absolute minimum grass temperature (°C)            | 8.4 (27 <sup>th</sup> )                  | <b>5.1**</b>                                |
| Mean minimum grass temperature (°C)                | 12.6                                     | <b>3.1*</b>                                 |
| Absolute minimum concrete temperature (°C)         | 9.5 (6 <sup>th</sup> , 7 <sup>th</sup> ) | <b>2.5</b>                                  |
| Mean minimum concrete temperature (°C)             | 12.9                                     | 0.6   |
| Mean soil temperature at 30 cm (°C)                | 19.3                                     | 1.0   |
| Mean soil temperature at 100 cm (°C)               | 18.0                                     |   |
| Highest daily rainfall (mm)                        | 12.4 (5 <sup>th</sup> )                  |   |
| Total rainfall (mm)                                | 65.4                                     | 6.8   |
| Total bright sunshine (hours)                      | 204.0                                    | 24.2  |
| Mean daily bright sunshine (hours)                 | 6.6                                      |   |
| Mean wind speed (knots)                            | 10.2                                     | <b>2.3</b>                                  |
| No. of rain days (0.2 mm or more rainfall)         | 16                                       | 3   |
| No. of wet days (1.0 mm or more rainfall)          | 11                                       |   |
| No. of days with minimum temperature less than 0°C | 0  | 0   |
| No. of days with ground temperature less than 0°C  | 0  | 0   |
| No. of days with fog at 0900 GMT                   | 0  | 0   |
| No. of days with snow lying at 0900 GMT            | 0  | 0   |

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**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, and bold with two asterisks (\*\*) denotes three standard deviations above/below.

#### Notes

August 2023 was a month of mostly typical weather for the time of year. Mean temperature and rainfall was as expected while sunshine was slightly above average (but not significantly so against the long term standard deviation). It was generally slightly windier than a typical August, with mean wind speeds 2.3 knots above the long term mean for the month. There was a notable lack of cool nights; absolute minimum grass, concrete and air temperatures were all >1 standard deviation above the long term mean, with the absolute and mean minimum grass temperatures >3 and >2 standard deviations above the long term mean respectively. While the lack of cool nights is reflected in multiple minimum temperature statistics it may be overemphasised in the grass minimum temperature values as bubbles affected the thermometer on a number of days.

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**Radcliffe Meteorological Observer**