

Radcliffe Meteorological Station
 School of Geography - University of Oxford
 Monthly Summary of Weather at Oxford for *July 2018*

		Difference from long period mean
Mean air temperature (°C)	20.7	4.1*
Absolute maximum air temperature (°C)	32.4 (26 th)	4.2
Lowest maximum air temperature (°C)	20.6 (29 th)	---
Mean maximum air temperature (°C)	27.3 [†]	5.4*
Absolute minimum air temperature (°C)	---	---
Mean minimum air temperature (°C)	---	---
Absolute minimum grass temperature (°C)	7.2 (12 th)	3.3*
Mean minimum grass temperature (°C)	11.6	1.6
Absolute minimum concrete temperature (°C)	8.7 (8 th)	1.1
Mean minimum concrete temperature (°C)	14.4	1.7
Mean soil temperature at 30 cm (°C)	22.1	3.7**
Mean soil temperature at 100 cm (°C)	Error	error
Highest daily rainfall (mm)	13.0 (28 th)	---
Total rainfall (mm)	23.2	-36.2
Total bright sunshine (hours)	281.9 ^{††}	87.5
Mean daily bright sunshine (hours)	9.1	---
Mean wind speed (knots)	4.2	---
No. of rain days (0.2 mm or more rainfall)	5.0	-7.5
No. of wet days (1.0 mm or more rainfall)	4.0	---
No. of days with minimum temperature less than 0°C	0.0	0
No. of days with ground temperature less than 0°C	0.0	0
No. of days with fog at 0900 GMT	0.0	-0.1
No. of days with snow lying at 0900 GMT	0.0	0

bold denotes anomalies in excess of **one** standard deviation above/below the long-term mean for June.

* denotes anomalies in excess of **two** standard deviations above/below the long-term mean for June.

[†] One day missing value, filled in from local stations; see notes below and spreadsheet for details

^{††} Three day missing value, filled in from local stations; see notes below and spreadsheet for details

Red: Affected use of Vaisala HMT minimum due to bubble in alcohol thermometer

Notes

With a staggering 26 days at or above 25 degrees, this July has been unseasonably warm. Though the absolute maximum temperature we recorded, 32.4 degrees, was no record breaker (equal 9th in our records), the persistence of the warm weather ensured that our monthly mean of the daily maximum air temperature was the highest on record. Indeed, the lowest daily maximum air temperature we recorded was 20.6 degrees, meaning that the temperature reached 20 degrees every single day.

Our minimum temperature thermometer has unfortunately developed a bubble in the alcohol thread. In order to calculate the mean air temperature, we've included the minimum temperature from our Vaisala HMT instead. For this reason, we have not included statistics on the minimum temperature in this report, and we ask that these values and the mean air temperature are used with caution. We are currently working with the Met Office to resolve this issue.

All available reports can be found on our website (www.geog.ox.ac.uk/research/climate/rms). We also occasionally tweet (@RMS_Oxford).

Emma Howard (08/08/18)

Radcliffe Meteorological Observer