

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

		Difference from long period mean
Mean air temperature (°C)	11.2	1.0
Absolute maximum air temperature (°C)	17.8 (8 th)	-1.6
Lowest maximum air temperature (°C)	11.5 (18 th)	
Mean maximum air temperature (°C)	14.2	-0.1
Absolute minimum air temperature (°C)	5.3 (10 th)	5.3*
Mean minimum air temperature (°C)	8.7	1.8
Absolute minimum grass temperature (°C)	0.4 (26 th)	4.2
Mean minimum grass temperature (°C)	5.2	1.2
Absolute minimum concrete temperature (°C)	3.6 (10 th)	4.6
Mean minimum concrete temperature (°C)	7.2	1.0
Mean soil temperature at 30 cm (°C)	12.2	0.3
Mean soil temperature at 100 cm (°C)	14.0	
Highest daily rainfall (mm)	60.0 (3 rd)	
Total rainfall (mm)	185.3	120.0*!
Total bright sunshine (hours)	70.7	-32.4
Mean daily bright sunshine (hours)	2.3	
Mean wind speed (knots)	11.4	3.1
No. of rain days (0.2 mm or more rainfall)	27.0	11.7*
No. of wet days (1.0 mm or more rainfall)	21.0	
No. of days with minimum temperature less than 0°C	0.0	-1.4
No. of days with ground temperature less than 0°C	0.0	-6.3
No. of days with fog at 0900 GMT	0.0	-2.5
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 October, while **bold with an asterisk (*)** denotes two standard deviations above/below. **Bold with an asterisk (*) and an exclamation mark (!)** denotes three standard deviations.

October 2020 was the 4th wettest month on record, the 2nd wettest October on record, and the wettest month in Oxford since October 1875. Storm Alex delivered 60.0 mm of rainfall on the 3rd, which was the wettest October day on record, the 6th wettest day on record, and the wettest day since June 1973. The cumulative 72-hour rainfall total from this storm (1st to 3rd) was a record-breaking 104.8 mm. 27 rain days were observed, which was a record for an October month. Sunshine hours were below average, while minimum temperatures were above average, and pushed the mean air temperature slightly above the long term mean. A bubble developed in the alcohol minimum thermometer this month, introducing a bias which was difficult to fix. We therefore decided to use the Vaisala minimum thermometer for the temperature statistics this month instead.

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.

David Crowhurst (03/11/2020)
Radcliffe Meteorological Observer