

Radcliffe Meteorological Station
 School of Geography - University of Oxford
 Monthly Summary of Weather at Oxford for *January 2021*

		Difference from long period mean
Mean air temperature (°C)	3.7	-0.1
Absolute maximum air temperature (°C)	12.7 (28 th)	0.5
Lowest maximum air temperature (°C)	0.2 (7 th)	
Mean maximum air temperature (°C)	6.6	-0.3
Absolute minimum air temperature (°C)	-4.0 (1 st)	1.3
Mean minimum air temperature (°C)	1.3	-0.2
Absolute minimum grass temperature (°C)	-8.8 (25 th)	0.2
Mean minimum grass temperature (°C)	-1.2	-0.3
Absolute minimum concrete temperature (°C)	-4.7 (1 st)	0.9
Mean minimum concrete temperature (°C)	0.1	-0.6
Mean soil temperature at 30 cm (°C)	4.5	0.3
Mean soil temperature at 100 cm (°C)	6.7	
Highest daily rainfall (mm)	22.1 (27 th)	
Total rainfall (mm)	115.3	62.3*
Total bright sunshine (hours)	41.8	-13.6
Mean daily bright sunshine (hours)	1.3	
Mean wind speed (knots)	8.9	-1.2
No. of rain days (0.2 mm or more rainfall)	24.0	7.1
No. of wet days (1.0 mm or more rainfall)	15.0	
No. of days with minimum temperature less than 0°C	13.0	2.7
No. of days with ground temperature less than 0°C	22.0	4.2
No. of days with fog at 0900 GMT	5.0	1.7
No. of days with snow lying at 0900 GMT	4.0	0.5

Bold denotes anomalies in excess of **one** standard deviation above/below the long-term mean for January, while **bold with an asterisk (*)** denotes **two** standard deviations.

January 2021 was the 5th wettest January since records began in 1767. The month had the joint 4th highest number of rain days for a January on record. As the soils were still in a saturated state from previous months, the high rainfall led to further flooding impacts across Oxfordshire. The high rainfall total was accompanied by a reasonably low number of sunshine hours. January 2021 was also the coldest January since 2010, and the mean air temperature was below the long term mean. This is an unusual event in recent times, only occurring in two of the preceding 48 months. Wind speeds were average, while there were slightly more days of fog than usual. 7.5 cm of snow was recorded on the 24th, which was the most since the Beast from the East in March 2018.

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 (03/02/2021)

Radcliffe Meteorological Observer