

# Radcliffe Meteorological Station

Oxford University Centre for the Environment, University of Oxford

## Annual Summary of Weather at Oxford for 2013

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Mean air temperature (°C)	4.8	3.3	2.9	8.0	11.0	14.6	19.4	17.7	14.1	12.8	6.7	6.8	10.2
Difference from long period mean	1.0	-0.9	-2.9	-0.3	-0.6	-0.2	2.8	1.6	0.4	2.7	0.2	2.2	0.5
Absolute maximum air temperature (°C)	14.3	10.8	15.1	19.8	22.4	24.8	31.6	31.3	27.6	20.2	14.6	13.6	31.6
Difference from long period mean	1.9	-1.9	-0.8	0.1	-1.8	-1.8	3.6	4.0	3.2	0.7	-0.4	0.8	1.9
Lowest maximum air temperature (°C)	-0.2	-1.0	1.0	4.5	10.9	15.6	16.3	19.0	13.5	11.0	6.6	6.7	-1.0
Mean maximum air temperature (°C)	6.6	6.2	6.3	12.9	15.9	19.4	25.6	23.1	19.0	16.3	10.0	10.0	14.3
Difference from long period mean	-0.3	-1.3	-3.8	-0.2	-0.8	-0.4	3.9	1.8	0.4	2.0	0.1	2.6	0.3
Absolute minimum air temperature (°C)	-3.8	-2.4	-4.1	-2.2	0.8	5.8	9.8	8.9	5.4	2.5	-2.0	0.6	-4.1
Difference from long period mean	1.6	2.2	-0.8	-1.0	-0.7	0.6	2.2	1.7	1.6	2.5	0.8	5.5	3.6
Mean minimum air temperature (°C)	1.9	-1.5	0.3	3.9	6.6	10.2	13.8	13.1	9.9	9.9	3.8	3.7	6.5
Difference from long period mean	0.4	-0.5	-2.2	-0.4	-0.6	0.0	1.5	1.1	0.0	3.0	-0.1	1.6	0.3
Absolute minimum grass temperature (°C)	-8.2	-6.6	-8.9	-7.1	-4.8	error	error	4.2	1.8	-1.9	-8.0	-5.6	-8.9
Difference from long period mean	0.8	1.9	-1.5	-1.7	-2.2	error	error	1.0	1.9	1.9	-1.6	2.6	2.2
Mean minimum grass temperature (°C)	-0.2	-1.5	-2.2	1.9	4.2	error	error	9.5	6.6	6.9	0.0	3.7	3.3
Difference from long period mean	0.7	-0.5	-2.1	0.3	-0.5	error	error	0.0	-0.5	3.0	-1.1	1.6	-0.3
Mean minimum concrete temperature (°C)	0.6	-0.9	-0.4	2.9	6.0	10.2	13.6	12.4	8.9	8.4	1.8	-5.6	5.3
Difference from long period mean	-0.3	-1.9	-2.7	-1.1	-1.6	-0.5	1.1	0.2	-0.5	2.4	-0.9	2.6	-0.5
Absolute minimum concrete temperature (°C)	-5.1	-4.8	-5.8	-4.4	-0.9	5.6	9.8	7.8	3.1	-0.5	-4.5	-3.6	-5.8
Difference from long period mean	0.5	1.5	-1.5	-1.7	-2.9	0.6	2.2	0.7	-0.3	0.7	-0.4	2.2	1.5
Mean soil temperature at 30 cm (°C)	5.2	4.1	4.4	7.9	12.6	16.2	20.1	19.4	16.2	13.5	8.4	6.5	11.8
Difference from long period mean	1.1	-0.1	-1.6	-1.3	-0.4	-0.2	1.9	1.3	0.4	1.7	0.6	1.3	1.0
Mean soil temperature at 100 cm (°C)	6.2	5.1	5.2	7.2	11.5	14.6	17.8	18.4	16.5	14.3	10.1	7.8	11.2
Highest daily rainfall (mm)	16.8	23.5	15.5	10.3	16.3	4.8	11.7	4.4	16.1	14.6	19.0	26.3	26.3
Total rainfall (mm)	64.0	47.4	77.4	24.9	66.2	17.3	45.7	19.3	40.6	86.7	55.2	97.7	637.0
Difference from long period mean	11.3	6.2	36.4	-18.8	15.0	-36.3	-14.1	-39.2	-19.2	20.1	-6.8	41.4	-8.3
Total bright sunshine (hours)	47.4	72.1	46.5	174.9	193.4	182.2	296.8	205.4	122.9	error	85.6	62.1	1576.9
Difference from long period mean	-7.3	1.4	error	21.6	2.9	-14.7	103.5	25.0	-16.0	error	20.5	13.0	73.8
Mean daily bright sunshine (hours)	1.5	2.6	1.9	6.0	6.2	6.1	9.6	6.6	4.1	3.1	2.9	2.0	4.4
Mean wind speed (knots)	9.9	10.7	11.4	12.5	10.5	9.8	7.4	7.9	6.5	11.3	7.4	11.5	9.7
Difference from long period mean	-0.2	0.9	1.7	3.1	2.0	1.8	-0.5	0.1	-1.3	2.9	-1.6	1.7	0.9
No. of rain days (0.2 mm or more rainfall)	22.0	8.0	13.0	9.0	14.0	9.0	9.0	12.0	11.0	23.0	19.0	18.0	167.0
Difference from long period mean	5.2	-5.5	-1.1	-4.7	0.4	-2.7	-3.6	-1.2	-1.6	7.6	3.0	1.0	-2.9
No. of wet days (1.0 mm or more rainfall)	14.0	6.0	9.0	6.0	12.0	5.0	7.0	4.0	7.0	18.0	17.0	15.0	120.0
No. of days with minimum temperature less than 0°C	14.0	5.0	16.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	43.0
Difference from long period mean	3.7	-4.8	8.6	3.2	-0.3	0.0	0.0	0.0	0.0	-1.4	-3.1	-8.7	-2.8
No. of days with ground temperature less than 0°C	16.0	20.0	22.0	11.0	4.0	0.0	0.0	0.0	0.0	1.0	16.0	20.0	110.0
Difference from long period mean	-1.7	3.4	5.9	0.5	0.4	-0.4	0.0	0.0	-1.2	-5.4	3.8	3.2	10.0
No. of days with fog at 0900 GMT	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	3.0	8.0
Difference from long period mean	-3.5	-2.1	0.2	-0.5	-0.1	-0.1	-0.1	-0.2	1.3	-2.7	-3.8	-1.1	-12.4
No. of days with snow lying at 0900 GMT	13.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0
Difference from long period mean	9.3	-1.1	3.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-1.7	9.5

### NOTES

*March:* windspeed recorder inaccessible for 3 days over Easter bank holiday weekend. Likewise for sunshine recorder, which, in addition, was inaccessible for a further 3 days earlier in the month due to icy conditions

*April:* 1st April windspeed and sunshine readings missed as recorders inaccessible

*June:* suspected error in minimum grass temperature thermometer towards the end of the month; replacement ordered

*July:* replacement minimum grass temperature thermometer arrived damaged, a new one therefore ordered

*August:* first 8 days of grass temperature measurements missing while waiting for replacement thermometer

*October:* 3 days of sunshine and windspeed measurements missed due to access problems, therefore sunshine totals not decalred

*December:* 5 days of minimum air temperatures missing due to air bubbles in thermometer