

Radcliffe Meteorological Station

Oxford University Centre for the Environment, University of Oxford

Annual Summary of Weather at Oxford for 2012

	January	February	March	April	May	June	July	August*	September**	October***	November	December	Year
Mean air temperature (°C)	6.7	3.9	8.4	8.5	13.5	15.2	17.1	17.7	11.7	10.1	6.9	5.4	10.4
Difference from long period mean	2.9	-0.3	2.6	0.2	1.9	0.4	0.5	1.6	-2.0	0.0	0.4	0.8	0.7
Absolute maximum air temperature (°C)	13.2	14.0	21.3	18.3	26.5	28.3	29.0	29.1	22.7	17.9	14.5	13.0	29.1
Difference from long period mean	1.0	1.3	5	-1.4	2.3	1.7	1.0	1.8	-1.6	-1.5	-0.5	0.2	-0.5
Lowest maximum air temperature (°C)	3.6	-0.5	7.8	9.8	8.9	12.1	16.9	17.0	14.5	8.6	3.8	-0.2	-0.5
Mean maximum air temperature (°C)	10.1	7.1	14.1	13.4	17.8	18.8	21.4	22.2	16.1	13.6	10.1	8.3	14.4
Difference from long period mean	3.3	-0.4	4	0.3	1.1	-1.0	-0.3	0.9	-2.5	-0.6	1.2	0.9	0.5
Absolute minimum air temperature (°C)	-3.4	-7.2	-1.1	-1.2	4.1	7.2	9.8	7.2	3.2	0.8	-1.3	-4.8	-7.2
Difference from long period mean	2.1	-2.6	2.2	0.0	2.6	2.0	2.2	0.0	-0.6	0.9	1.6	0.1	0.5
Mean minimum air temperature (°C)	3.7	1.2	3.5	4.3	9.8	11.9	13.3	13.9	8.0	7.1	4.0	2.6	6.9
Difference from long period mean	2.2	-0.2	1	0.0	2.6	1.7	1.0	1.9	-1.9	0.3	0.2	0.5	0.7
Absolute minimum grass temperature (°C)	-9.8	-12.1	-4.5	-7.2	-2.8	error	error	error	-0.9	-4.5	-6.9	-9.1	-12.1
Difference from long period mean	-0.8	-3.6	2.9	-1.8	-0.2	error	error	error	-0.8	-0.7	-0.5	-0.9	-0.9
Mean minimum grass temperature (°C)	-2.3	-1.1	0.2	-1.3	4.7	error	error	error	8.0	4.7	1.1	-0.4	1.5
Difference from long period mean	-1.4	-0.1	0.3	-3.9	0.0	error	error	error	0.9	0.7	-0.1	0.0	-2.1
Mean minimum concrete temperature (°C)	0.7	-0.2	1.6	1.6	6.7	error	error	error	7.7	6.0	2.1	0.5	3.0
Difference from long period mean	-0.2	-1.4	-0.7	-2.4	-0.9	error	error	error	-1.7	0.1	-0.6	-0.4	-2.8
Absolute minimum concrete temperature (°C)	-6.2	-8.8	-3.2	-6.1	-0.2	error	error	error	2.9	-2.8	-4.2	-5.6	-8.8
Difference from long period mean	-0.6	-3.6	1.1	-3.5	-2.1	error	error	error	-0.6	-1.6	-0.1	0.3	-1.4
Mean soil temperature at 30 cm (°C)	5.8	3.8	7.9	9.8	13.6	16.3	18.7	19.3	16.3	12.2	8.1	5.1	11.4
Difference from long period mean	1.7	-0.4	1.9	0.6	0.6	-0.2	0.5	1.2	0.5	0.4	0.3	-0.1	0.6
Mean soil temperature at 100 cm (°C)	7.5	5.5	7.8	9.7	11.9	15.0	17.2	18.2	19.6	13.7	9.8	6.3	11.9
Highest daily rainfall (mm)	7.0	9.0	11.6	20.0	12.1	21.2	27.8	26.0	32.8	37.0	19.8	17.9	37.0
Total rainfall (mm)	34.6	21.3	24.3	143.0	55.5	151.7	101.3	79.1	57.5	124.2	83.2	103.2	978.9
Difference from long period mean	-17.9	-19.7	-17	98.9	4.2	97.9	41.3	20.8	-2.7	58.4	21.2	47.2	332.8
Total bright sunshine (hours)	78.7	71.7	164.0	missing	missing	missing	missing	138.4	167.2	83.9	74.8	66.6	error
Difference from long period mean	24.2	1	50.3	missing	missing	missing	missing	missing	27.9	-19.0	9.8	17.5	error
Mean daily bright sunshine (hours)	2.9	2.5	5.5	missing	missing	missing	missing	6.0	5.8	3.0	2.5	2.1	3.8
Mean wind speed (knots)	8.9	5.2	4.0	missing	missing	missing	missing	8.3	11.2	10.3	9.5	11.3	8.6
Difference from long period mean	-1.2	4.8	-5.7	missing	missing	missing	missing	1.5	3.4	2.0	0.5	1.5	-0.2
No. of rain days (0.2 mm or more rainfall)	9.0	13.0	6.0	20.0	10.0	19.0	16.0	11.0	11.0	24.0	21.0	19.0	179.0
Difference from long period mean	-7.8	-0.6	-8.1	6.3	-3.6	-7.2	3.4	-2.2	-1.6	8.7	5.1	2.0	8.8
No. of wet days (1.0 mm or more rainfall)	9.0	5.0	5.0	18.0	10.0	15.0	15.0	9.0	6.0	20.0	18.0	17.0	147.0
No. of days with minimum temperature less than 0°C	6.0	11.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	9.0	31.0
Difference from long period mean	-4.3	1.2	-5.4	-0.8	-0.3	0.0	0.0	0.0	0.0	-1.4	-4.1	0.2	-15.1
No. of days with ground temperature less than 0°C	24.0	17.0	15.0	18.0	4.0	error	error	0.0	2.0	7.0	13.0	16.0	116.0
Difference from long period mean	6.3	-0.4	-1.1	7.5	0.4	error	error	0.0	0.8	0.6	0.8	0.8	16.8
No. of days with fog at 0900 GMT	1.0	5.0	missing	missing	missing	missing	missing	0.0	0.0	3.0	0.0	1.0	10.0
Difference from long period mean	-2.5	1.9	missing	missing	missing	missing	missing	-0.2	-0.7	0.2	-3.8	-3.1	-10.7
No. of days with snow lying at 0900 GMT	0.0	4.0	missing	missing	missing	missing	missing	0.0	0.0	0.0	0.0	4.0	8.0
Difference from long period mean	-3.6	0.9	missing	missing	missing	missing	missing	0.0	0.0	0.0	-0.2	-0.2	-1.5

*Due to scheduling issues with change of observer in August, 8 measurement days were missed. Accumulated stats are therefore an underestimate. Additionally, faults were discovered with the grass and concrete temperature thermometers, so measurements have been omitted as they are unreliable.

**Statistics likely affected by missing measurements in the early part of the month due to instrumentation faults. This is most pronounced in maximum air temperature (10 days missing before 16th) and grass and concrete temperatures (no measurements made before 6th).

***Sun and wind statistics will be affected by accessibility problems to the site (and thus no measurements) on 3 consecutive days