Radcliffe Meteorological Station

Oxford University Centre for the Environment, University of Oxford

Annual Summary of Weather at Oxford for 2018

	January	February	March	April	May	June	July	August	September	October	November	December	Year	Notes	Stats
Mean air temperature (°C)	5.8	3.0	5.4	10.4	13.9	17.0	20.7	18.0	14.8	11.2	8.4	7.3	11.3	The glass minimum th	April: 9th highest; May 5th highest; June: 10th highest; July 2nd; Year 3rd
Difference from long period mean	2.0	-1.2	-0.4	2.2	2.3	2.1	4.1	1.8	1.1	1.0	1.9	2.7	1.6		
Absolute maximum air temperature (°C)	14.6	11.4	14.0	26.9	27.2	28.8	32.4	30.2	25.5	23.9	15.7	14.0	32.4		Jan 4th highest on record; April: 3rd highest; July: joint 9th highest; Oct 8th highest
Difference from long period mean	2.4	-1.4	-2.4	7.0	3.0	2.1	4.2	2.8	1.1	4.5	0.7	1.2	2.6		
Lowest maximum air temperature (°C)	3.7	-1.1	-1.9	7.9	13.4	16.9	20.6	18.6	12.8	6.6	5.5	3.1	20.6		May: 2nd highest; June 3rd highest; July: 1st highest; Dec: 7th highest
Mean maximum air temperature (°C)	9.0	6.4	9.1	14.2	19.8	22.8	27.4	23.4	20.4	15.6	11.7	10.2	15.8		
Difference from long period mean	2.1	-1.1	-1.1	1.0	3.0	2.9	5.4	2.1	1.8	1.3	1.7	2.7	1.8		Jan and April: 12th highest on record. March: 13th lowest
Absolute minimum air temperature (°C)	-1.3	-5.2	-6.1	1.3	1.9	7.2	error	6.9	1.6	-1.4	-2.7	-2.9	-6.1		
Difference from long period mean	4.1	-0.8	-2.8	2.4	0.4	1.9	error	error	-2.2	-1.4	0.1	1.9	3.5		April: 1st highest; July: 3rd highest; Annual : 8th
Mean minimum air temperature (°C)	3.0	0.3	2.5	7.5	8.7	11.6	14.7	13.1	10.1	7.3	5.5	4.7	7.4		
Difference from long period mean	1.6	-1.2	-0.1	3.1	1.4	1.3	error	error	0.2	0.4	1.6	2.5	1.2		The grass minimum te
Absolute minimum grass temperature (°C)	-5.9	-9.2	-7.8	-0.1	-2.1	error	7.2	3.5	-1.9	-6.5	-7.1	-7.8	-9.2		temperature thermometer had several missing days in June
Difference from long period mean	3.1	-0.8	-0.5	5.2	0.5	error	3.3	0.2	-1.9	-2.7	-0.7	0.4	1.9		
Mean minimum grass temperature (°C)	0.3	-3.5	0.4	5.3	5.9	error	11.6	10.6	6.7	2.7	2.4	2.4	4.0		April: 1st highest; Jul: joint 4th highest
Difference from long period mean	1.2	-2.5	0.4	3.7	1.2	error	1.6	1.1	0.4	-1.3	1.2	2.2	0.4		
Absolute minimum concrete temperature (°C)	-3.3	-6.1	-6.1	-0.1	0.7	4.9	8.7	6.0	0.7	-2.4	-4.1	-4.6	-6.1		
Difference from long period mean	2.3	-1.0	-1.8	1.9	1.0	-0.5	1.1	-1.0	-2.5	-1.4	-0.2	0.9	1.0		April: 2nd highest; May 5th highest; Jun 6th highest; July 2nd highest; Annual: 7th highest
Mean minimum concrete temperature (°C)	1.2	-1.6	1.6	6.7	8.8	11.8	14.4	12.9	8.9	5.0	4.5	2.7	6.4		
Difference from long period mean	0.5	-2.6	-0.5	2.5	1.2	1.0	1.7	0.7	0.5	-1.2	1.6	1.7	0.6		May and July: Highest on record. Annual mean: joint 5th highest
Mean soil temperature at 30 cm (°C)	5.1	4.1	5.6	10.7	15.4	18.6	22.1	19.8	16.4	11.9	8.2	6.9	12.2		
Difference from long period mean	0.9	-0.1	-0.4	1.4	2.3	2.0	3.7	1.6	0.6	0.0	0.2	1.6	1.2		
Mean soil temperature at 100 cm (°C)	error	error	error	error	error	error	error	error	17.2	14.1	10.5	8.7	error	The 100 cm thermometer was broken until late August, when it was replaced.	
Highest daily rainfall (mm)	15.5	6.5	12.8	14.3	36.4	1.1	13.0	14.2	14.2	18.1	13.1	12.2	36.4		
Total rainfall (mm)	58.6	24.1	83.4	52.8	86.2	2.5	23.2	43.2	30.3	50.1	61.9	67.7	584.0		June: 2nd lowest on record
Difference from long period mean	5.5	-17.3	41.9	9.2	34.5	-50.8	-36.2	-15.3	-29.0	-15.0	-0.2	11.4	14.1		
Total bright sunshine (hours)	73.0	117.6	79.1	120.5	244.8	250.9	281.9	200.3	169.8	117.3	82.7	53.7	1791.6		Feb: 2nd highest. July: 5th highest. Annual: 7th highest
Difference from long period mean	17.7	46.4	-34.8	-33.3	52.9	53.7	87.5	20.3	30.9	14.1	17.3	4.2	282.7		May: 2nd lowest wind speed on record
Mean daily bright sunshine (hours)	2.4	4.2	2.6	4.0	7.9	8.4	9.1	6.5	5.7	3.8	2.8	1.7	4.9		
Mean wind speed (knots)	10.7	9.7	9.3	9.6	6.1	7.4	6.0	8.3	8.7	6.3	10	9.5	8.5	unadjusted	
Difference from long period mean	0.6	-0.1	-0.4	0.3	-2.4	-0.6	-1.9	0.5	0.9	-2.1	1.0	-0.3	-0.4		
No. of rain days (0.2 mm or more rainfall)	20	11	23	16	12	4	5	10	5	13	13	15	147.0		March: joint 6th highest. June: joint 5th lowest July: 6th lowest
Difference from long period mean	3.0	-2.7	8.9	2.4	-1.6	-7.7	-7.5	-3.3	-7.5	-2.3	-3.0	-2.0	-23.2		
No. of wet days (1.0 mm or more rainfall)	13	7	15	9	8	1	4	8	4	8	10	13	100.0		
No. of days with minimum temperature less than 0°C	4	14	6	0	0	0	0	0	0	2	3	3	31.0		
Difference from long period mean	-6.3	4.4	-1.2	-2.7	-0.3	0.0	0.0	0.0	0.0	0.6	-3.0	-5.7	-14.2		April: second lowest. December: joint 9th lowest
No. of days with ground temperature less than 0°C	15	22	17	2	3	0	0	0	0.0	3	9	7	87.0		
Difference from long period mean	-2.8	5.3	0.9	-8.4	-1.5	-0.3	0.0	0.0	1.8	2.7	-5.2	-7.8	-15.2		Annual: Joint 2nd lowest. December: one of 10 with no fog. November: one of 12 with no fog
No. of days with fog at 0900 GMT	2	1	0	0	0	0	0	0	2	0	0	0	5.0		
Difference from long period mean	-1.4	-1.9	-1.8	-0.4	-0.1	-0.1	-0.1	-0.2	-0.7	-0.6	-3.7	-3.9	-14.8		
No. of days with snow lying at 0900 GMT	2	2	7	0	0	0	0	0	0	0	0	0	11.0		March: 3rd highest.
Difference from long period mean	-1.5	-1.0	6.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-1.8	1.5		

NOTES
bold denotes anomalies more than 1 standard deviation away from the long-term monthly mean
<u>underline</u> denotes anomalies more than 2 standard deviations away from the long-term monthly mean
italic denotes anomalies more than 3 standard deviations from the long-term monthly mean
1-3 days missing data; please see monthly data reports for details