

WOKINGHAM METEOROLOGICAL DATA

Lat 51.425 N, Long 0.853 W, NGR (SU) 798701

Altitude 45 m ASL.

Emmbrook,

Wokingham,

Berkshire.

Annual

Summary

2023

Temperature

	°C	°F	Anomaly	Rank in 142 years
Mean maximum	16.4	61.5	(+1.1)	2nd highest
Mean minimum	7.4	45.3	(+0.7)	2nd highest
Daily mean	11.9	53.4	(+0.9)	*Equal highest with 2022*
Highest maximum	32.0	89.6		on 9th September
Lowest maximum	-0.3	31.5		on 17th January
Highest minimum	17.3	63.1		on 28th June
Lowest minimum	-6.4	20.5		on 23rd January
Mean grass minimum	4.7	40.5	(+1.1)	
Lowest grass minimum	-9.5	14.9		on 17th January
Mean 30cm earth temp.	12.8	55.0	(+0.8)	
Highest 30cm	20.5	68.9		on 10th September
Lowest 30cm	2.8	37.0		on 26th January
Mean 100cm earth temp	12.8	55.0	(+0.6)	
Highest 100cm	18.7	65.7		on 14th September
Lowest 100cm	5.7	42.3		on 28th January
Warmest month	June ,		daily mean 18.4°C,	65.1°F
Coollest month	January,		daily mean 5.2°C,	41.4°F

Table 1. Temperature category for each month. (See note 2, page 4)

Category	Month
1. Very cool	-
2. Cool	-
3. Normal	Jan, Jul
4. Warm	Feb, Mar, Apr, May, Aug, Nov
5 Very warm	Jun, Sep, Oct, Dec

Table 2. Number of days with max/min air temperature in given range.

Range, deg C	Number of days		Range, deg C	Number of days	
	Max	Min		Max	Min
-15.0 to -10.1	0	0	10.0 to 14.9	111	102
-10.0 to - 5.1	0	4	15.0 to 19.9	79	22
-5.0 to -0.1	1	34	20.0 to 24.9	76	0
0.0 to 4.9	8	72	25.0 to 29.9	34	0
5.0 to 9.9	51	131	30.0 to 34.9	5	0
			35.0 to 39.9	0	0

Table 3. Monthly totals of Air Frost and Ground Frost.

	Jan	Feb	Mar	Apr	May	Jun	
Air frost	11 (+1)	11 (+1)	4 (-3)	3 (0)	0 (-1)	0 (0)	
Ground frost	18 (+1)	15 (-2)	7 (-9)	12 (-1)	2 (-3)	0 (-1)	
	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Air frost	0 (0)	0 (0)	0 (0)	1 (-1)	3 (-2)	5 (-5)	38 (-9)
Ground frost	0 (0)	0 (0)	0 (0)	2 (-5)	10 (-3)	9 (-7)	75 (-31)

Date of:	last spring air frost,	25th April	ground frost,	20th May
	first autumn air frost,	16th October	ground frost,	15th October
	Frost free period,	air 173 days,	(-17)	ground 147 days, (+24).
	Annual total of air frost duration:	367.4 hours	(-3)	
	Frostiest month	January.	145.3 hours	

[Difference from 1991-2020 average in brackets]

Temperature anomaly in deg C

Rainfall.

Total	830.1 mm	32.68 inches	(125 %)	9th highest in 142 years
Number of : Rain days	166 (+4)		Wet days 125 (+11)	Days => 5mm 61 (+17)
	A rain day has at least 0.2 mm		A wet day has at least 1.0 mm	
Highest daily fall to 9am:	37.4 mm	on 20th September.		
Wettest month,	March	123.6 mm	299 % of average	
Driest month,	February	4.4 mm	9 % of average	
Duration of measurable rainfall;	570.9 hours (+56 hr)	Longest in a day;	15.0 hours on 8th March	
Highest monthly duration;	101.6 hours in March	Lowest ;	7.1 hours in February	
Number of dry spells, (5 or more consecutive dry days):	11			
Longest dry spell;	27 days, 15th May to 10th June			
Total number of :	Dry days, 199 (-4)	Days in dry spells,	110	

Table 4. **Rainfall category for each month.**

Category	Month
1. Very wet	Mar
2. Wet	Jan, Apr, Jul, Oct, Nov, Dec
3. Normal	May, Jun, Aug, Sep
4. Dry	-
5. Very dry	Feb

(See note 2, page 4)

Table 4a **Rain rate, maximum daily, between given limits**

Rate mm/hr	Days	Rate mm/hr	Days
<10	105	50 to 100	16
10 to 25	22	100 to 250	5
25 to 50	17	>250	0
		Missing *	0
Highest rate	205 mm/hr on 12th June		

Table 5. **Distribution of measurable rainfall duration.**

Hours	Days	Hours	Days	Hours	Days
0	152	6.1 to 9.0	17	18.1 to 21.0	0
0.1 to 1.0	83	9.1 to 12.0	6	21.1 to 24.0	0
1.1 to 3.0	59	12.1 to 15.0	3	Missing *	0
3.1 to 6.0	45	15.1 to 18.0	0	*Not available due to snow/ice	

Table 6. **Number of days with rainfall between given limits.**

Fall, mm	Days	Fall, mm	Days
0.0 to 0.1	199	10.0 to 19.9	16
0.2 to 0.9	41	20.0 to 29.9	4
1.0 to 4.9	64	30.0 to 39.9	2
5.0 to 9.9	39	> 39.9	0

Sunshine.

(Recorded on an electronic sunshine detector)

Total	1693.2 hours	Daily mean	4.64 hours	(103 %)
Sunniest day	15.6 hours on the 13th June			
Number of days:	Nil sun	47 (-6)	=>12 hrs	19 (-2)

Weather.

Number of days with:

Snow or sleet falling;	2	(-10)		
Snow lying at 0900 GMT;	1	(-3)		
Thunder heard;	11	(-3)		
Hail;	5	(-7)	=>5mm; 1 (-1)	<5mm, 4 (-6)
Fog at 0900 GMT;	8	(-1)		

Air Pressure,

corrected to MSL.

Mean at 0900 GMT	1014.4 mbar	(-1.4)
Absolute highest	1047.3 mbar	on 5th February
Absolute lowest	955.9 mbar	on 2nd November
Span	91.4 mbar	(+21.8)

[Difference from 1991-2020 average in brackets]

Wind

Table 7. **Summary of monthly wind speed at 10 metres**

Month	Mean speed mph	Windiest day		Highest gust		Calm 0.5 mph or less hours
		Mean mph	Date	mph	Date/time (GMT)	
January	8.3	15.0	12th	45	4/1631	4.0
February	5.9	12.0	18th	32	17/0513	n/a
March	7.9	16.8	13th	43	13/1102	n/a
April	5.8	10.8	12th	48	12/1255	n/a
May	6.0	9.8	30th	30	4/1005	n/a
June	6.2	9.2	1st	32	25/1511	n/a
July	6.9	12.9	15th	44	15/1221	n/a
August	5.4	9.0	12th	32	12/1217	n/a
September	4.7	12.0	19th	41	20/0850	n/a
October	5.2	9.7	13th	36	18/2045	n/a
November	7.0	12.8	19th	46	13/1023	n/a
December	8.9	15.8	24th	50	21/1232	n/a
Year	6.6	16.8	13th March	50	21st December	n/a

Note: Wind sensor partial failure. Some winds are based on data from Reading University.

Table 8. **Summary of hourly mean wind direction. Number of hours with wind from given directions, in degrees from true north, summed over 30 degree segments.**

	Direction											
	360 N	030 NNE	060 ENE	090 E	120 ESE	150 SSE	180 S	210 SSW	240 WSW	270 W	300 WNW	330 NNW
January	76	31	6	3	1	2	47	148	225	83	48	74
February	90	89	15	15	11	15	10	47	167	125	38	50
March	42	88	36	9	13	26	84	209	121	53	40	23
April	59	119	76	49	50	28	58	85	76	54	33	33
May	89	208	104	31	18	11	38	48	42	50	26	79
June	21	139	187	48	16	11	29	94	76	62	19	18
July	6	9	11	6	16	13	45	225	227	123	34	29
August	10	9	17	33	27	28	55	176	124	142	78	45
September	42	55	94	67	26	35	63	152	95	62	16	13
October	14	35	49	75	18	34	92	201	154	41	19	12
November	30	38	33	7	16	22	58	140	223	65	41	47
December	36	17	4	11	18	27	54	144	269	77	25	62
Year	515	837	632	354	230	252	633	1669	1799	937	417	485

Appendix 1.

Monthly statistics from the electronic sunshine detector, 2023.

Note:

Month	Total hours	Daily mean hr	Highest daily, hrs/date	Number of days with:			Hours		
				Nil	0.1 to 2.9	3.0 to 5.9	6.0 to 8.9	9.0 to 11.9	=>12.0 hrs
January	93.4	3.01	8.1 on 21st	6	16	8	7	0	0
February	91.4	3.26	9.0 on 6th	7	16	5	6	1	0
March	65.2	2.10	9.0 on 2nd	7	22	6	2	1	0
April	156.1	5.20	12.7 on 4th	0	11	10	1	7	1
May	229.4	7.40	15.1 on 24th	1	6	7	5	7	6
June	263.0	8.77	15.6 on 13th	0	6	3	5	7	9
July	167.5	5.40	15.5 on 7th	1	9	7	10	4	1
August	181.7	5.86	11.7 on 9th	1	8	7	7	9	0
September	181.2	6.04	12.6 on 5th	1	8	6	7	7	2
October	139.2	4.49	9.9 on 15th	4	12	9	6	4	0
November	94.1	3.14	7.8 on 25th	8	14	10	6	0	0
December	31.0	1.00	4.0 on 8th	11	28	3	0	0	0
Year	1693.2	4.64	15.6	47	156	81	62	47	19

Appendix 2.

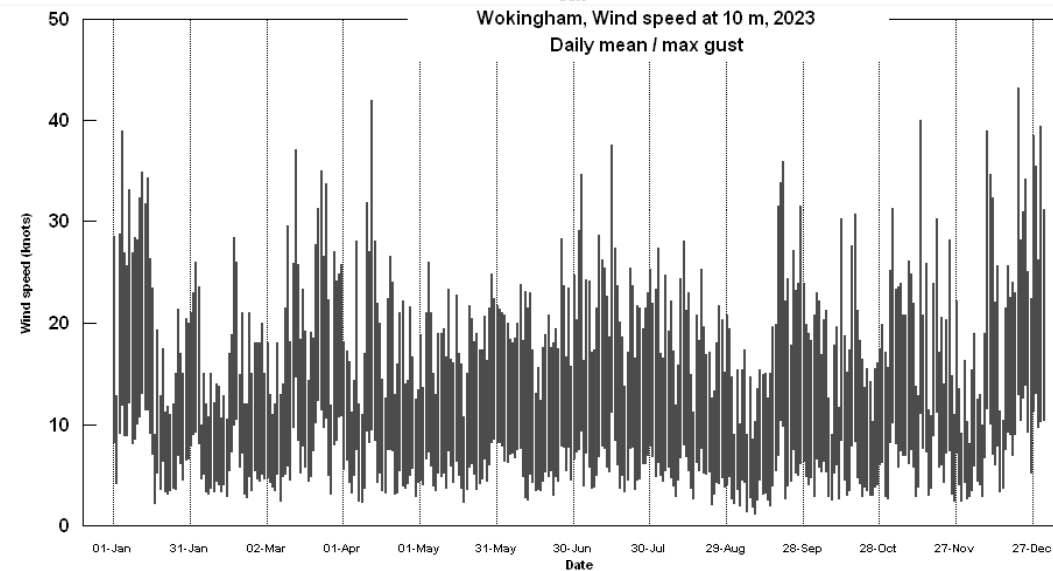
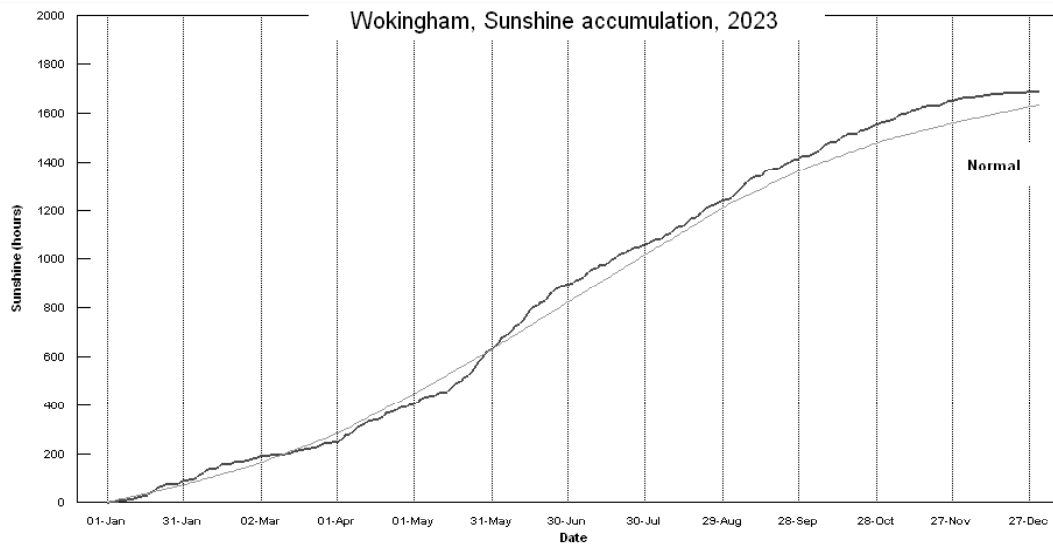
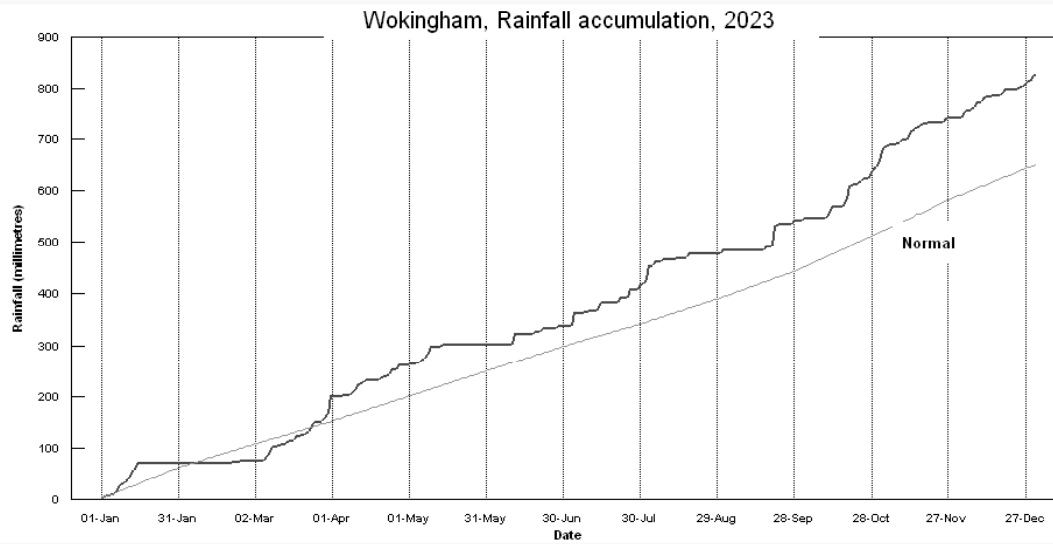
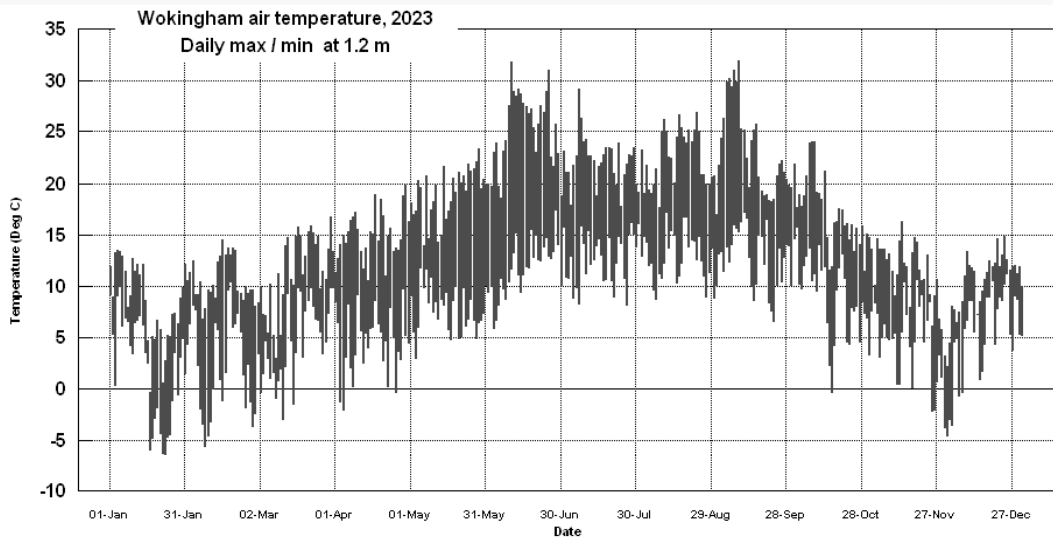
Monthly categories, quick look table, 2023.

Month	Temperature Category	Rainfall Category	Sunshine Category	Index	(see note 1)
January	3 Normal	2 Wet	5 Very sunny	10	
February	4 Mild	5 Very dry	4 Sunny	13	
March	4 Mild	1 Very wet	1 Very dull	6	
April	4 Warm	2 Wet	4 Sunny	10	
May	4 Warm	3 Normal	4 Sunny	11	
June	5 Very warm	3 Normal	5 Very sunny	13	
July	3 Normal	2 Wet	2 Dull	7	
August	4 Warm	3 Normal	3 Normal	10	
September	5 Very warm	3 Normal	4 Sunny	12	
October	5 Very mild	2 Wet	4 Sunny	11	
November	4 Mild	2 Wet	4 Sunny	10	
December	5 Very mild	2 Wet	1 Very dull	8	

Note 1). Index, on scale 3 to 15 between 'worst' and 'best' months.

Note 2). Definition of categories used in Tables 1 and 4 and in Appendix 2: Category 1; the value lies within the worst 10% of ranked values for all years available. Category 2; between 10% and 30% above the worst value. Category 3; within 20% of the median value. Category 4; between 10% and 30% below the best value. Category 5; within 10% of the best value. In this context, best (worst) refer to above (below) normal temperature and sunshine, but below (above) normal rainfall. For temperature and rainfall, data since 1882 are considered, and for sunshine since 1908.

Appendix 3	Annual Summary 2023	page5
	Summary of notable features during 2023.	
January	Above average rainfall and sunshine, near average temperature. Wet, mild and windy up to the 15th, then an abrupt change to dry, cold and calmer. 17th, the first January ice day since 2013. The earth temperature at 1m depth fell to 5.7°, 2nd lowest since 1997. Rainfall 10% above average but 15 of the final 16 days were dry. Freezing fog occurred on the 22nd, 23rd and 25th. This was the 2nd sunniest January since 2003 with a total 28% above average.	
February	Very dry with mean temperature and sunshine above average. The mean maximum is 9th highest in 142 years. The lowest max ranks 7th highest in 111 years. Rainfall equal lowest with 1993 since 1959, and 6th lowest in 142 years. Only 1.6 mm of rain fell in the 36 days to the 20th. 10 more dry days than average, equal highest with 1959 since before 1905. Rainfall duration 14% of average and lowest for February since 1998. MSL pressure reached 1047.3 mbar, the highest for February since before 1976.	
March	Very dull with near record rainfall and above average mean temperature. Mean minimum 9th highest in 142 years. 9 fewer ground frosts than average. Wettest March since 1947 and 2nd wettest in 142 years with a total almost 3 times the average. 34.1mm of rain on 31st is 2nd highest for March in 120 years. Fewest dry days since 1979. Rainfall duration over twice the average. The only snow of the year fell on the 8th and 10th, and gave a 3 cm cover at 09 GMT on the 8th. Sunshine only 52% of average in one of the dullest Marches in over 100 years.	
April	Mean temperature near average, rainfall above and sunshine below average. This is the first April since 1990 to have no days with nil sun.	
May	Rainfall below average, both mean temperature and sunshine above average. The wet conditions of March and April extended into May with a change to a very dry regime after the 10th, with 20 of the final 21 days being dry. The third sunniest May in this millennium. Very sunny from 23rd to 29th with an average of 13.4 hours per day. Mean pressure highest for May since 1991.	
June	New record mean temperature and mean maximum. Very sunny with rainfall below average. The mean temperature is 0.1° above the previous highest in 1976, and the mean maximum is 0.7° above the previous highest. The lowest max is 2nd highest in 111 years and the highest min is 4th highest in the same period. Mean earth temperature at 1 m depth highest since before 1990. Over half the month's rainfall fell in less than 20 minutes on the 11th when 18.7 mm fell in 14 minutes, and apart from this only 0.1 mm recorded between 15th May and 18th June. Active thunderstorm on 11th produced many cloud to ground strikes. Sunniest June since 1996.	
July	Wet and dull with below average temperature. The first July since 2014 which failed to reach 30°. Rainfall 69% above average. Sunshine 84% of average and duller since 2012. The mean MSL pressure is equal lowest for July in the past 48 years.	
August	Above average rainfall and near average temperature and sunshine. The lowest min is highest since 2002 and 5th highest in 120 years. Most of the month's rain fell in the first week and there were only 4 wet days after the 8th. Sunshine on the month's sunniest day 2nd lowest in 10 years. MSL pressure on the 2nd fell to its lowest August value since before 1976.	
September	Near record warmth with above average rainfall and sunshine. Daily mean temperature equal highest with 2006 in the past 142 years. The mean maximum is highest since 1929. The highest max is 7.5° above its median and highest since 1911 and the lowest max is 2nd highest in 111 years. Mean earth temperatures highest since before 1989. Only 1.4 mm of rain between the 1st and 16th, and 64% of the month's total fell on the 20th., with 21.4 mm falling in one hour, the 4th highest for any month since before 1998. Very sunny in first week with 75.5 hours in the 7 days to the 9th	
October	Very mild and wet but quite sunny. Mean temperature 8th highest in 142 years. Earth temperature remains at record levels. Rainfall 55% above average.	
November	Above average rainfall and sunshine and average temperature. Only 2 dry days until the 19th, then 9 in the next 11 days. MSL pressure fell to 955.9 mbar on 2nd, the 2nd lowest value for any month since before 1976.	
December	Very mild, wet and very dull. Mean temperature 4th highest in 142 years. The highest max ranks 5th highest in 120 years. Rainfall 32% above average, and the number of dry days is lowest for the month since 1993. Sunshine exceptionally low, only 45% of average and 2nd lowest in this millennium. The 4.0 hours total on the month's sunniest day is lowest for any day in this millennium.	
Year	<p>Very Mild and Very Wet with Above Average Sunshine. Temperature: This is the second consecutive year where the mean temperature is at a record level, both 2022 and 2023 having the same highest mean on record. The mean maximum was 0.4° below the record set last year, but the mean minimum is 0.4° above the 2022 value and is 2nd highest on record. Notably, of the highest 10% of annual mean temperature in the past 142 years, 8 have occurred since 2010. There were, however, no records broken in the ranks of extreme temperature, the highest max was 1.5° above the median but 6.8° below the record, while the lowest max was equal to its median. The highest min was 0.1° above the median, and the lowest min, while 1.4° above its median, was 2.7° below the record. Looking at annual highest temperature in past years, the 35.6° in 1911 stood until 2003 but has been exceeded in 4 other years since then. The mean grass min of 4.7° shares the record spot for the past 44 years with 2006, while the lowest grass min, 3.3° above average, is only 2nd highest in that period. Mean earth temperature at 30 cm depth is 0.1° below the record set in 2014, but at 1 m depth is equal highest with 2022 and 2014, yet is only 0.6° above average. Rainfall: This has been a very wet year, ranking 9th wettest in the past 142 years. It is wettest since 2014, and before that, 2002. This year's total is 188 mm above the long-term median, and 25% above the current 30 year climatological average. While the number of dry days is only 4 fewer than average, there was an excess of 17 days having at least 5 mm of rain. It is interesting that 7 months were in the wet or very wet categories, while only one was in the dry or very dry categories. The number of days having a rainfall rate in the violent category was 21 this year, 8 above the average for the past 17 years, and highest in that period. The duration of measurable rain, 570.9 hours, is 110% of average, and is highest since 2014. Estimated soil moisture deficit reached a maximum of 184 mm in mid-September, and returned to field capacity by the 16th November. An index of stress for unirrigated shallow rooted plants was 614 for the summer season, near the 48 year median of 648, maximum 1183 in 1990. Sunshine: The total this year is 96 hours above average. However, 5 of the past 6 years have been sunnier, then there is a gap to 2003 to find another sunnier one. The number of sunless days is 6 below average, but the number of days with 12 hours or more is 2 fewer than average. June was the sunniest month, daily mean 8.77 hr, anomaly 135%, and December the duller, mean 1.00 hr, anomaly 45%. Wind: The overall mean wind speed is 0.2 mph below average. The year's highest gust of 50 mph is 9 mph below average and is lowest since 2011. Daily mean directions from SW and W combined were 6% more frequent, at the expense of all other directions except NE. Pressure: The MSL pressure fell to 955.9 mbar on the 2nd November, the 2nd lowest annual value in the past 48 years after 952.4 mbar in 1989. Humidity: The overall mean relative humidity was 81.2%, and the lowest value was 27% in June. The mean water vapour content per kg of air was 7.2 g at both 09 and 15 GMT, giving an anomaly of +0.6g at 15 GMT and the highest value in the past 26 years.</p>	
	B.J.Burton. F.R.Met.S.	5 th January 2024



Appendix 4.

Summary of observations at 0900 GMT

Month	Monthly means								Visibility statistics						
	Vis	Cld	TT	Td	RH	WS	WG	pp	TF	FO	VP	PO	MO	GO	EX
January	16.3	72	4.5	2.9	90	7.2	15	1015.2	3	0	3	7	9	8	1
February	16.7	80	5.3	3.6	89	5.3	11	1029.2	3	0	2	9	4	9	1
March	15.5	88	7.3	4.9	85	7.3	14	1008.7	0	0	3	12	10	4	2
April	21.1	66	9.9	5.6	75	6.0	12	1016.8	0	0	0	10	9	7	4
May	24.2	68	13.9	8.7	72	6.3	13	1023.2	0	0	0	5	12	10	4
June	31.3	63	18.8	12.5	67	6.2	13	1018.2	0	0	0	2	7	16	5
July	33.8	74	18.0	12.4	71	6.9	15	1011.6	0	0	2	2	6	10	11
August	41.2	71	17.3	13.1	77	6.0	13	1013.9	0	0	2	2	6	6	15
September	22.4	56	17.7	14.5	82	5.5	11	1014.8	0	0	0	9	9	8	4
October	23.4	74	12.3	10.9	91	5.2	11	1007.6	0	0	2	8	9	7	5
November	22.0	69	7.6	6.3	91	6.4	13	1004.1	0	0	3	7	6	10	4
December	19.5	84	7.6	6.1	90	7.6	15	1011.4	2	0	1	11	5	10	2
Year	24.0	72	11.7	8.5	82	6.3	13	1014.4	8	0	18	84	92	105	58

Summary of observations at 1500 GMT

Month	Monthly means								Visibility statistics						
	Vis	Cld	TT	Td	RH	WS	WG	pp	TF	FO	VP	PO	MO	GO	EX
January	24.6	61	7.4	3.8	79	8.1	18	1014.7	1	0	2	4	8	12	4
February	36.5	66	10.1	4.5	70	6.5	13	1028.1	0	0	0	3	4	12	9
March	31.2	85	9.9	4.7	71	8.5	18	1008.2	0	0	0	6	6	9	10
April	32.7	70	13.2	5.0	60	6.9	15	1015.8	0	0	1	3	7	10	9
May	32.0	68	17.8	8.9	58	7.0	16	1021.8	0	0	0	2	5	19	5
June	38.5	48	24.2	12.0	48	7.4	16	1016.6	0	0	0	1	4	14	11
July	42.4	77	20.5	12.1	61	8.3	18	1010.7	0	0	0	3	4	10	14
August	40.6	72	21.1	13.2	62	6.8	15	1012.7	0	0	1	2	5	9	14
September	33.4	69	21.6	13.8	63	6.2	15	1013.6	0	0	0	2	5	13	10
October	34.2	74	15.6	10.8	75	6.5	15	1006.4	0	0	0	6	5	7	13
November	37.7	70	9.4	6.1	80	7.1	16	1004.6	0	0	1	1	7	9	12
December	26.3	84	9.1	6.5	84	8.6	19	1010.4	0	1	0	6	8	8	8
Year	34.1	70	15.0	8.5	67	7.3	16	1013.5	1	1	5	39	68	132	119

Legend: Vis = visibility in km. Cld = cloud amount %. TT = air temperature, deg C. Td = Dew point, deg C.
 RH = relative humidity %. WS = wind speed at 10 metres, knots. WG = Highest gust in past hour, knots.
 pp = Air pressure at MSL, mbar. TF = thick fog, <210 m. FO = fog, 210 to 900 m. VP = very poor, 1 to 4 km
 PO = poor, 4.1 to 10 km. MO = moderate, 11 to 20 km. GO = good, 21 to 40 km. EX = excellent, >40 km.

Summary of monthly climatic data.

Year 2023

Month	Max	Min	Mean	Anom	Rain	Grass	30cm	100cm	Sun	Frost	pp09	Af	Sf	Th	Ic	Rain							
	C	C	C	C	mm	min	C	C	hrs	hrs	mbar	Gf	Sl	Ha	Ic	Fg	ddd	ff	sp	hrs			
January	8.5	1.9	5.2	+0.1	72.7	-1.3	6.0	7.7	93.4	145.3	1015.2	11	18	0	0	0	1	0	3	239	4.8	7.2	51.0
February	10.6	2.2	6.4	+1.0	4.4	-0.8	6.0	6.7	91.4	92.7	1029.2	11	15	0	0	0	0	0	3	268	2.5	5.1	7.1
March	11.4	4.5	7.9	+0.5	123.6	2.6	7.8	7.8	65.2	22.9	1008.7	4	7	2	1	0	0	1	0	218	4.0	6.9	101.6
April	14.9	4.3	9.6	-0.1	62.0	1.3	10.6	10.1	156.1	12.4	1016.8	3	12	0	0	1	0	1	0	268	0.3	5.0	53.8
May	19.1	7.6	13.3	+0.4	40.8	4.7	14.3	12.8	229.4	0.0	1023.2	0	2	0	0	2	0	1	0	20	2.4	5.2	23.9
June	25.2	11.6	18.4	+2.6	37.4	8.4	18.7	16.6	263.0	0.0	1018.2	0	0	0	0	3	0	1	0	49	1.1	5.4	10.5
July	22.2	12.5	17.4	-0.5	79.5	10.0	18.6	17.6	167.5	0.0	1011.6	0	0	0	0	1	0	0	0	232	4.9	6.0	48.3
August	22.4	12.6	17.5	-0.2	65.8	10.1	19.0	18.0	181.7	0.0	1013.9	0	0	0	0	1	0	0	0	233	2.6	4.7	37.8
September	23.4	12.6	18.0	+3.1	58.0	10.0	18.5	18.0	181.2	0.0	1014.8	0	0	0	0	2	0	0	0	204	1.6	4.1	19.7
October	17.2	8.9	13.1	+1.6	113.8	6.5	15.1	16.0	139.2	3.4	1007.6	1	2	0	0	1	0	0	0	204	2.2	4.5	75.1
November	11.3	4.4	7.8	0.0	86.6	1.5	10.1	12.0	94.1	41.7	1004.1	3	10	0	0	0	0	0	0	235	3.8	6.1	64.4
December	10.4	5.2	7.8	+2.4	85.5	2.4	8.1	9.4	31.0	49.0	1011.4	5	9	0	0	0	0	0	2	232	5.8	7.7	77.7
Year	16.4	7.4	11.9	+0.9	830.1	4.7	12.8	12.8	1693.2	367.4	1014.4	38	75	2	1	11	1	4	8	234	2.4	5.7	415.9

Legend: Max/min/mean = Monthly mean of daily maximum/minimum/mean air temperature at 1.2 metres.
 Anom = Departure of mean temperature from climatic mean. Rain = monthly rainfall total.
 Grass min = Mean grass minimum temperature. 30cm/100cm = Mean earth temperature at 30 and 100 cm depth.
 Sun hrs = Hours of bright sunshine. Frost hrs = hours with air temperature below zero C. pp09 = Air pressure msl at 09 gmt.
 Days with: Af = air frost. Gf = ground frost. Sf = snow falling. Sl = snow lying. Th = thunder. Ha = hail >5mm. Ic = small hail or ice.
 Fg = Fog at 09 gmt. ddd ff = mean wind vector, degrees from true north, speed in knots. sp = mean scalar wind speed knots.
 Rain hrs = duration of measurable rain (excludes snowfall).

Appendix 5.

Wokingham annual climatic data for recent years.

Year	Mean max	Mean min	Mean	Anom	Hi max	Lo min	Rain mm	Grass min	30 cm	100 cm	Sun hrs	Frost hrs	pp09	Af	Sf Gf	Th Sl	Ic Ha	Fg	ddd	ff	sp			
2012	14.8	6.1	10.5	-0.2	29.6	-11.4	807	3.0	11.7	12.0	1564	475	1015.3	57	125	12	6	9	3	6	12	235	2.5	5.8
2013	14.6	6.0	10.3	-0.4	32.9	-6.8	604	2.8	11.6	11.7	1523	445	1015.6	66	133	33	11	9	0	14	7	244	1.4	6.0
2014	16.0	7.1	11.6	+0.9	29.2	-6.5	883	4.0	12.9	12.8	1666	195	1012.8	33	99	0	0	23	3	15	6	221	2.7	5.7
2015	15.5	6.7	11.1	+0.4	33.9	-7.2	547	3.5	12.3	12.2	1598	202	1017.4	38	107	12	2	6	3	8	4	230	3.2	6.3
2016	15.4	6.6	11.0	+0.3	33.0	-6.4	688	3.2	12.4	12.6	1552	351	1016.2	52	127	4	0	14	5	12	13	231	2.2	5.6
2017	15.6	7.1	11.4	+0.7	33.4	-6.7	642	3.9	12.5	12.5	1587	331	1016.9	45	108	13	1	9	1	6	6	232	3.1	5.8
2018	16.3	6.9	11.6	+0.9	34.1	-8.3	606	3.5	12.5	12.5	1916	322	1015.4	40	106	15	6	9	0	10	2	225	1.6	5.8
2019	15.9	6.6	11.2	+0.5	36.8	-6.5	783	3.3	12.2	12.3	1792	248	1014.6	43	128	6	4	10	2	11	7	226	2.6	5.6
2020	16.4	7.1	11.8	+1.1	36.9	-3.7	723	4.3	12.6	12.5	1940	192	1015.0	37	95	4	0	9	1	8	11	226	2.8	6.3
2021	15.3	6.7	11.0	0.0	31.3	-5.1	666	4.1	12.3	12.3	1504	393	1016.7	58	107	17	5	8	0	15	9	233	1.8	5.6
2022	16.8	7.0	11.9	+0.9	38.8	-8.6	595	4.1	12.7	12.8	1913	389	1017.2	41	96	6	3	10	0	7	9	223	2.3	5.5
2023	16.4	7.4	11.9	+0.9	32.0	-6.4	830	4.7	12.8	12.8	1693	367	1014.4	38	75	2	1	11	1	4	8	234	2.4	5.7

Legend : See appendix 4. Note: Anom is difference from the current 30 year average, up to 2020, this is 1981 to 2010, after 2020, 1991 to 2020

Wokingham area decadal annual means for the last century See note1 below

Decade Ending	Mean max	Mean min	Mean	Anom	Mean rain	Anom rain	Mean sun	Anom sun
1900	14.0	5.3	9.7	-1.0	600	-51	xx	
1910	13.7	5.4	9.5	-1.2	631	-20	xx	
1920	14.0	5.6	9.8	-0.9	700	+49	1588	-23
1930	14.2	5.4	9.8	-0.9	636	-15	1599	-12
1940	14.4	5.7	10.0	-0.7	641	-10	1527	-84
1950	14.6	5.8	10.2	-0.5	616	-35	1572	-39
1960	14.1	5.8	10.0	-0.7	678	+27	1500	-111
1970	13.8	5.8	9.8	-0.9	686	+35	1487	-124
1980	14.1	5.8	9.9	-0.8	655	+4	1538	-73
1990	14.4	6.1	10.3	-0.4	639	-12	1554	-57
2000	14.9	6.6	10.8	+0.1	660	+9	1569	-42
2010	15.3	6.7	11.0	+0.3	654	+3	1611	0
2020	15.6	6.7	11.2	+0.5	682	+31	1678	+67

Extreme values from the Wokingham climatological series.

Highest annual mean maximum	16.8	in 2022
Lowest annual mean maximum	12.4	in 1888
Highest annual mean minimum	7.6	in 2006
Lowest annual mean minimum	3.9	in 1887
Highest annual mean temperature	11.9	in 2022 & 2023
Lowest annual mean temperature	8.4	in 1887
Highest recorded temperature	38.8	on 19th Jul 2022
Lowest recorded temperature	-15.3	on 14th January 1982
Wettest year	952 mm	in 1903
Driest year	337 mm	in 1921
Highest daily rainfall	71.6 mm	on 20th September 1980
Sunniest year	2020	with 1940 hours
Dullest year	1958	with 1274 hours
Most days with snow falling	40	in 1917
Most days with snow lying	53	in 1963

Anom = difference from current 1981 to 2010 climatological average.

Temperatures in degrees C, Rainfall in mm, Sunshine in hours.

Sunshine recorder changed in 1999

Top ten since 1882

Warmest		Coldest		Wettest		Driest		Sunniest		Dullest		
Year	Deg C	Year	Deg C	Year	mm	Year	mm	Year	Mean	Year	Mean	
1	2022	11.9	1892	8.5	1903	952	1921	337	2020	5.3	1958	3.5
2	2023	11.9	1888	8.7	1951	887	1990	459	2018	5.2	1932	3.7
3	2020	11.8	1887	8.7	2014	883	1902	477	2022	5.2	1968	3.7
4	2006	11.7	1891	8.7	2000	872	1887	487	2003	5.2	1981	3.7
5	2018	11.6	1963	8.8	1960	857	1947	491	1990	5.1	1912	3.8
6	2014	11.6	1919	8.9	2002	853	2005	492	1989	5.1	1931	3.8
7	2011	11.5	1962	8.9	1916	842	1996	508	1911	5.1	1936	3.8
8	2017	11.4	1917	9.0	1974	837	1933	509	1949	5.0	1960	3.8
9	2002	11.4	1890	9.0	1915	815	1898	510	1929	5.0	1966	3.8
10	1999	11.3	1922	9.1	1927	814	1938	511	1921	5.0	1993	3.8

Note1. Decadal means for the past century. The original data prior to 1970 have been updated, resulting in some slight changes in the decadal temperature means from data published in Annual Summaries up to and including 2014.