

WOKINGHAM METEOROLOGICAL DATA

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

Altitude 45 m ASL. Emmbrook, Wokingham, Berkshire.

Annual Summary 2024

Temperature

	°C	°F	Anomaly	Rank in 142 years
Mean maximum	15.9	60.6	(+0.6)	7th highest
Mean minimum	7.6	45.7	(+0.9)	*Equal highest with 2006*
Daily mean	11.7	53.1	(+0.7)	4th highest
Highest maximum	32.1	89.8		on 12th August
Lowest maximum	2.6	36.7		on 17th January
Highest minimum	17.7	63.9		on 2nd September
Lowest minimum	-7.4	18.7		on 18th January
Mean grass minimum	5.0	41.0	(+1.4)	
Lowest grass minimum	-11.6	11.1		on 18th January
Mean 30cm earth temp.	12.9	55.2	(+0.9)	
Highest 30cm	21.1	70.0		on 3rd August
Lowest 30cm	3.0	37.4		on 21st January
Mean 100cm earth temp	12.9	55.2	(+0.7)	
Highest 100cm	18.8	65.8		on 5th August
Lowest 100cm	6.3	43.3		on 23rd January
Warmest month	August,		daily mean 18.4°C, 65.1°F	
Coollest month	January,		daily mean 4.8°C, 40.6°F	

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

Category	Month
1. Very cool	-
2. Cool	-
3. Normal	Jan, Jun, Jul,
4. Warm	Aug, Sep, Oct, Nov
5. Very warm	Feb, Mar, Apr, May, 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	117	102
-10.0 to -5.1	0	3	15.0 to 19.9	93	20
-5.0 to -0.1	0	21	20.0 to 24.9	76	0
0.0 to 4.9	9	77	25.0 to 29.9	16	0
5.0 to 9.9	50	143	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)	3 (-7)	3 (-3)	0 (-3)	0 (-1)	0 (0)	
Ground frost	17 (0)	8 (-9)	12 (-4)	8 (-5)	0 (-5)	0 (0)	
	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Air frost	0 (0)	0 (0)	0 (0)	0 (-2)	6 (+1)	1 (+9)	24 (-23)
Ground frost	0 (0)	0 (0)	3 (+3)	2 (-5)	10 (-3)	7 (-9)	67 (-39)

Date of: last spring air frost, 6th March ground frost, 25th April
 first autumn air frost, 20th November ground frost, 13th September
 Frost free period, air 257 days, (+66) ground 140 days, (+16).
 Annual total of air frost duration: 198.6 hours (-172)
 Frostiest month January. 114.1 hours

[Difference from 1991-2020 average in brackets]

Temperature anomaly in deg C

Rainfall.

Total **777.3** mm 30.60 inches (117 %) 16th highest in 143 years

Number of : Rain days 170 (+8) Wet days 122 (+8) Days => 5mm 48 (+3)

A rain day has at least 0.2 mm

A wet day has at least 1.0 mm

Highest daily fall to 9am: 30.1 mm on 26th September.

Wettest month, September 146.0 mm 272 % of average
Driest month, June 11.1 mm 22 % of average

Duration of measurable rainfall; 593.1 hours (+76 hr) Longest in a day; 14.5 hours on 27th April
Highest monthly duration; 86.1 hours in February Lowest ; 13.4 hours in June

Number of dry spells, (5 or more consecutive dry days): 11
Longest dry spell; 9 days 7th to 15th November
Total number of : Dry days, 196 (-8) Days in dry spells, 78

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

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

(See note 2, page 4)

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

Rate mm/hr	Days	Rate mm/hr	Days
<10	118	50 to 100	8
10 to 25	26	100 to 250	4
25 to 50	13	>250	0
		Missing *	0
Highest rate	167 mm/hr on 26th September		

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

Hours	Days	Hours	Days	Hours	Days
0	142	6.1 to 9.0	20	18.1 to 21.0	0
0.1 to 1.0	92	9.1 to 12.0	9	21.1 to 24.0	0
1.1 to 3.0	67	12.1 to 15.0	4	Missing *	0
3.1 to 6.0	32	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	196	10.0 to 19.9	22
0.2 to 0.9	48	20.0 to 29.9	4
1.0 to 4.9	74	30.0 to 39.9	1
5.0 to 9.9	21	> 39.9	0

Sunshine.

(Recorded on an electronic sunshine detector)

Total **1513.6** hours Daily mean **4.14** hours (92 %)

Sunniest day 15.4 hours on the 2nd June
Number of days: Nil sun 72 (+19) =>12 hrs 21 (0)

Weather.

Number of days with:

Snow or sleet falling; 2 (-10)
Snow lying at 0900 GMT; 0 (-4)
Thunder heard; 12 (-2)
Hail; 8 (-4) =>5mm; 1 (-1) <5mm, 7 (-3)
Fog at 0900 GMT; 5 (-4)

Air Pressure,

corrected to MSL.

Mean at 0900 GMT **1014.6** mbar (-1.2)
Absolute highest 1039.1 mbar on 11th January
Absolute lowest 972.0 mbar on 28th March
Span 67.1 mbar (-3.0)

[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	8.1	17.2	21st	63	21/2105	n/a
February	8.1	15.3	6th	39	6/1418	2.7
March	7.3	13.9	28th	54	28/1841	7.1
April	8.6	15.2	15th	47	15/1114	3.4
May	5.5	8.8	28th	29	26/1207	15.2
June	6.6	10.0	15th	36	15/1133	1.9
July	6.7	10.9	4th	35	6/1532	n/a
August	6.7	12.4	22nd	37	23/0645	n/a
September	5.6	10.0	30th	38	10/1810	n/a
October	4.6	9.8	20th	38	20/1213	n/a
November	5.2	17.6	24th	51	24/0820	n/a
December	8.4	20.5	7th	60	7/0642	n/a
Year	6.8	20.5	7th December	63	21st January	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	24	134	21	4	7	21	85	148	150	63	52	35
February	12	45	23	22	10	7	64	211	228	51	15	8
March	19	28	97	40	31	58	106	176	95	47	26	21
April	61	62	30	8	9	34	77	169	111	75	37	47
May	63	117	63	13	27	61	73	100	95	64	33	35
June	88	47	14	5	2	0	27	118	151	124	53	91
July	86	17	30	19	8	12	24	132	133	125	68	90
August	8	16	43	30	16	18	30	211	164	151	45	12
September	23	111	91	28	34	21	23	86	80	103	84	36
October	53	47	52	68	36	41	66	107	99	73	37	65
November	50	66	53	91	38	26	62	83	98	59	40	54
December	27	99	5	5	11	14	61	89	208	126	65	34
Year	514	789	522	333	229	313	698	1630	1612	1061	555	528

Appendix 1.

Monthly statistics from the electronic sunshine detector, 2024.

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	96.8	3.12	8.2 on 26th	6	11	5	9	0	0
February	57.8	1.99	9.1 on 12th	12	10	5	1	1	0
March	102.1	3.29	10.1 on 30th	5	12	8	4	2	0
April	122.7	4.09	12.3 on 30th	1	13	7	8	0	1
May	174.1	5.62	14.6 on 20th	5	8	5	3	3	7
June	242.3	8.08	15.4 on 2nd	0	5	4	8	7	6
July	184.9	5.96	14.6 on 19th	1	9	7	5	5	4
August	210.7	6.80	13.6 on 16th	2	3	9	6	8	3
September	125.5	4.18	11.7 on 16th	4	11	4	7	4	0
October	96.9	3.13	8.9 on 17th	6	12	5	8	0	0
November	68.7	2.29	7.6 on 29th	13	7	4	6	0	0
December	31.1	1.00	4.9 on 2nd	17	8	6	0	0	0
Year	1513.6	4.14	15.4	72	108	69	65	30	21

Appendix 2.

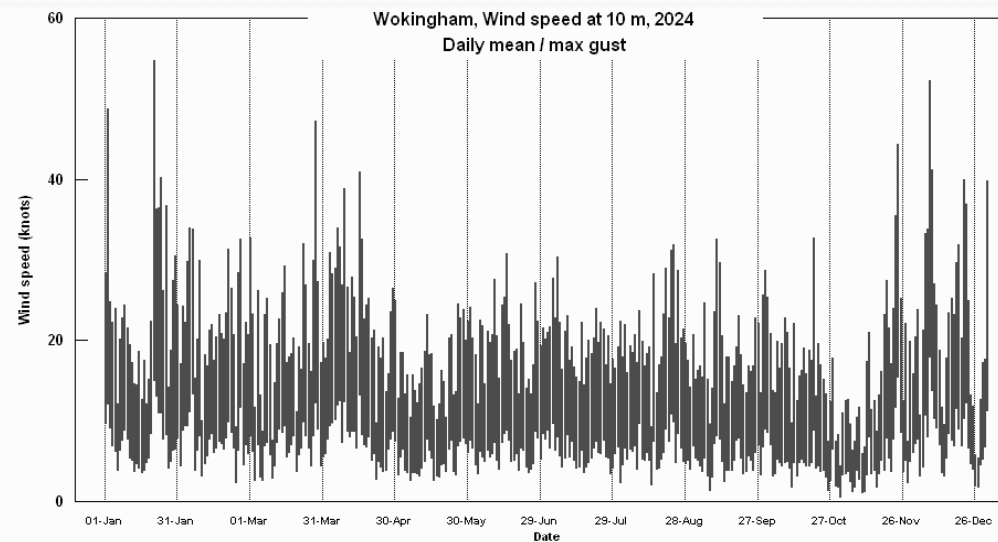
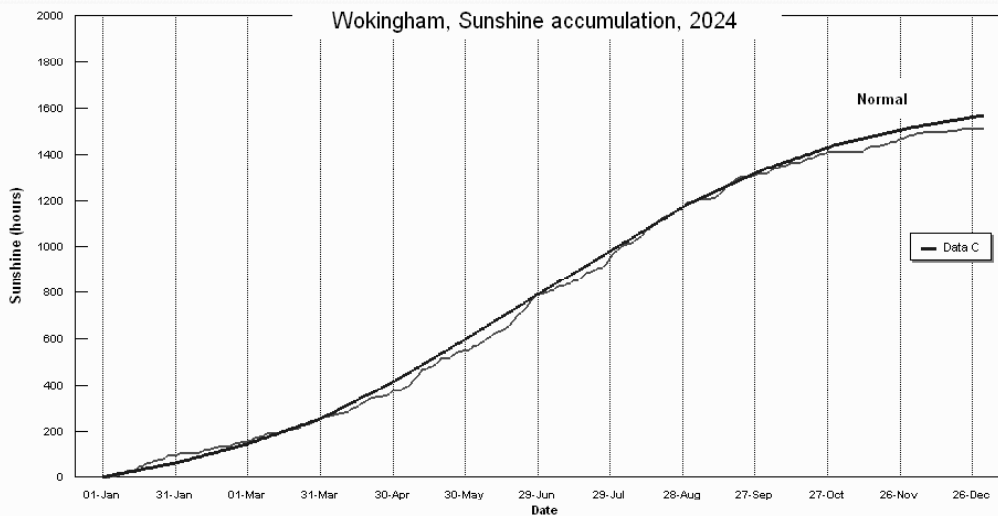
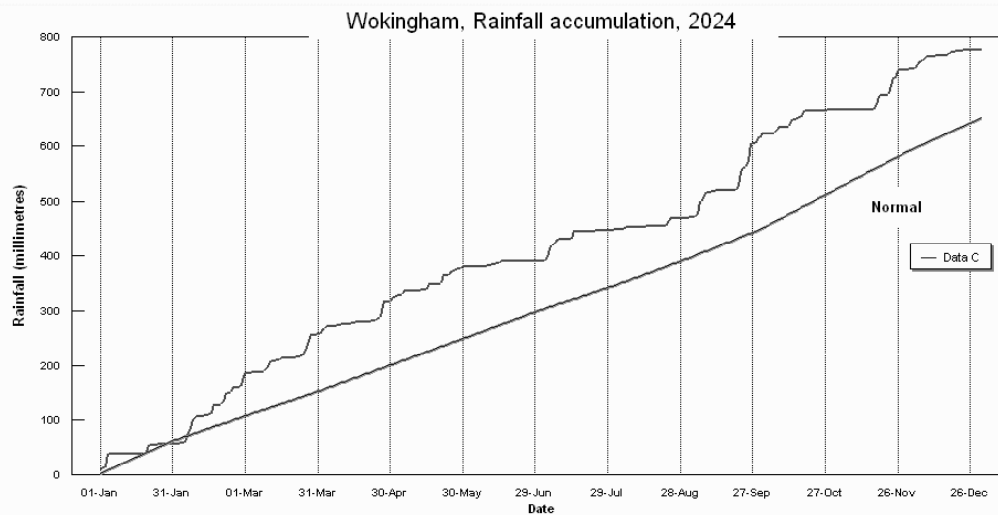
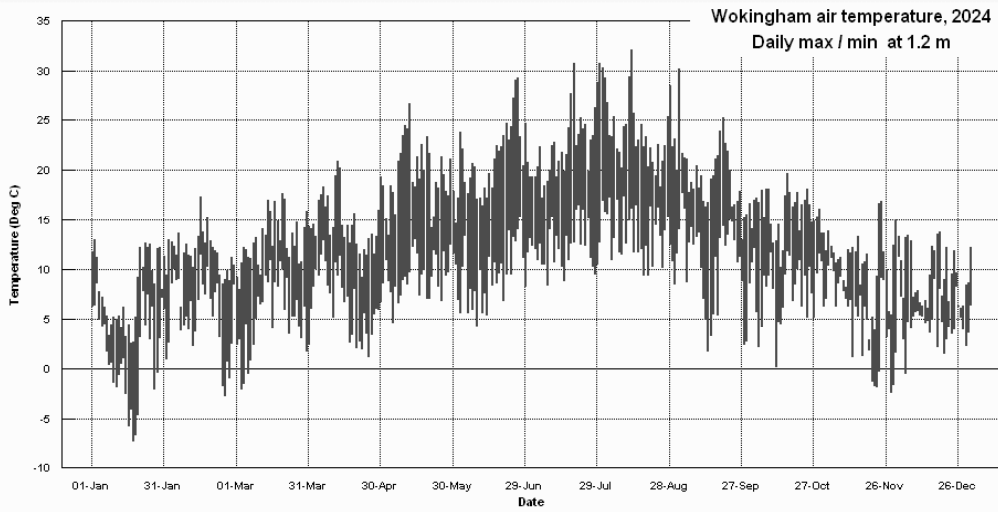
Monthly categories, quick look table, 2024.

Month	Temperature Category	Rainfall Category	Sunshine Category	Index	(see note 1)
January	3 Normal	3 Normal	5 Very sunny	11	
February	5 Very mild	1 Very wet	2 Dull	8	
March	5 Very mild	2 Wet	3 Normal	10	
April	5 Very mild	2 Wet	2 Dull	9	
May	5 Very warm	2 Wet	2 Dull	9	
June	3 Normal	5 Very dry	4 Sunny	12	
July	3 Normal	3 Normal	3 Normal	9	
August	4 Warm	4 Dry	4 Sunny	12	
September	4 Warm	1 Very wet	2 Dull	7	
October	4 Mild	3 Normal	2 Dull	9	
November	4 Mild	3 Normal	3 Normal	10	
December	5 Very mild	4 Dry	1 Very dull	10	

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 2024		page5
	Summary of notable features during 2024		
January	Very sunny with temperature and rainfall near average. Rainfall unevenly distributed, wet until the 4th and between 19th and 21st otherwise mainly dry. There was an unusually high total for January on 4th when 23.8 mm fell (highest for any January day since 1962) after 43.6 mm in the previous 10 days, culminating in the Emm overtopping its banks. 2nd sunniest January in this millennium. Wind gust of 63 mph is highest for January since 2018		
February	Very mild. Very wet. Dull. Mean temperature a new 143 year high. Highest max 4th highest in 121 years. Highest min 2nd highest in 112 years. Mean grass min highest in past 45 years. New high records also set for earth temperatures. Fewest days with ground frost since 1995. Rainfall 245% of average and 2nd wettest in 143 years after 1951. Number of days with =>10mm highest since before 1976. 3rd dullest in this millennium. Mean RH highest for Feb since before 1998.		
March	Mild and wet with below average sunshine. Mean temperature 4th highest in 143 years. Earth temperature at record high levels. 3rd wettest in this millennium. Mean RH highest since 2001.		
April	Mild overall, wet and dull. Mean minimum 2nd highest in 143 years. Highest min 2nd highest in 112 years. Lowest min 5th highest in 121 years. 10th April in 69 years without a ground frost. Earth temperature at 1 m depth highest in 35 years. Rainfall of 28.6 mm on 27th a new April daily record for the past 121 years, 3rd dullest in this millennium.		
May	Near record high temperature, rainfall above, and sunshine below, average. Mean temperature equal highest with 2008 and 1992 in 143 years. Mean minimum highest in that period. Lowest min 2nd highest in 121 years. No ground frost for the first time since 1964. Earth temperature at 1m depth equal highest in 35 years. Highest wind gust equal lowest for May since before 1988. Aurora seen on 10th and 11th.		
June	Dry and sunny with mean temperature slightly below average. Mean maximum 0.4° above average but mean minimum lowest since 1996. The highest daily rainfall is 2nd lowest for June in 49 years. Noctilucent cloud observed on 23rd.		
July	Temperature and sunshine below, and rainfall above, average. 64% of month's rain fell on just 2 days.		
August	Dry, sunny and warm overall. The lowest min is 6th highest in 121 years. Driest since 2003.		
September	Dull and very wet with near average temperature. Highest max 7th highest in 121 years. Highest min 4th highest in 112 years. Exceptionally wet, 2nd wettest in 143 years. 83.1 mm of rain in 6 days to the 26th. Number of dry days equal lowest in 49 years. Most thunder since 1976. Lowest pressure lowest for the month since 1995. Mean RH highest in past 27 years.		
October	Rainfall and sunshine below average but temperature slightly above. 4th dullest this millennium Mean RH highest in past 27 years.		
November	Mean temperature and rainfall near, and sunshine below, average. Almost no rain before 17th, then very wet. 60.5 mm over 4 days between 18th and 26th. Only 0.2 hours of sunshine in 12 days to the 10th. Number of days with nil sun equal highest since 1994. Daily mean wind speed of 17.6 mph on 24th highest for Nov in 37 years.		
December	Mild with both rainfall and sunshine below average. Mean minimum 8th highest in 143 years. Lowest max 3rd highest in 112 years. Lowest min 2nd highest in 121 years. Air frost duration 2nd lowest in 44 years. Highest daily rainfall 8th lowest for Dec in 121 years. Daily mean sun equal lowest since 1989. Days with nil sun 2nd highest in 46 years. Highest daily sun 2nd lowest for Dec in 46 years. Daily mean wind of 20.5 mph on 7th highest for Dec in 38 years. 60 mph gust on that day highest for the month since 1993		
Year	<p style="text-align: center;">Temperature and Rainfall Above, Sunshine Below, Average.</p> <p>Temperature: The mean for 2024 ranks 4th highest in 143 years and is just 0.2° below the record years 2022 and 2023. The 10 warmest years on record have all been in this millennium, and this year's value is 1.6° above the 143 year median. While the mean maximum ranks 7th highest, and is 0.9° below the record set in 2022, the mean minimum is equal highest with 2006 in the past 143 years, and is 1.7° above the long-term median. The highest max is 1.5° above the median while the lowest max is 2.9° above its median and 6th highest in 112 years. The highest min is 0.5° above the median and the lowest min is 0.4° above its median. The mean grass min is 1.5° above average and a new record, but the lowest grass min is close to average. Earth temperature at 30 cm depth is equal highest with 2014 in 45 years, and at 1 m depth is a new high record, 0.1° above the previous highest. The number of days with air frost is lowest in 49 years, as is the number of days with ground frost. The duration of air frost was 171.7 hours less than, or 54 % of, average for the past 40 years. Rainfall: This has been quite a wet year with a 17% surplus over the current climatological average. However, it is drier than last year, having 52.8 mm less rainfall. In this millennium 19 years have been drier and 5 wetter than 2024, that is about 1 in every 4.8 years wetter, but in the 117 years between 1882 and 1999 there were 11 years wetter than 2024, about 1 in 10.6 years, suggesting that wet years have become more frequent. Both February and September were very wet this year, both having over 2.5 times the average, but June was the only very dry month. 5 of this year's months were wet or very wet while only 3 were dry or very dry. This year there were 27 days with =>10 mm of rain, 10 above the 49 year average and 2nd highest after 2012 in that period. The highest daily fall of 30.1 mm is 4.3 mm below average. Rainfall duration is 76 hours more than average and highest since 2014. Estimated soil moisture deficit reached a maximum of 207 mm in 2nd September and was over 100 mm from 29th June to 27th September, returning to field capacity at the end of November. Unirrigated shallow rooted plants would suffer severe stress between 29th July and 2nd September. An index of severe stress was 693 for the summer season, 47 year median 648, SD 283. Sunshine: This has been a poor year for sunshine, the daily mean is 2nd lowest after 2021 since 2004. The number of days with nil sun is highest since 1987 and is 16 more than the average for the past 44 years. 3 months were in the sunny or very sunny categories and 6 were in the dull or very dull one, with June very sunny and December very dull. June was the sunniest month with 247.3 hours and December with 31.1 hours the least sunny. Notable dull periods were 3rd to 9th Feb, total 0.7 hours, 28th Oct to 10th Nov, 1.0 hours, 7th to 13th Dec, 0.2 hours and 24th to 31st Dec, 0.1 hours. Notable sunny spells were 76.5 hours from 7th to 12th May and 147.0 hours from 17th to 29th Jun. Overall there were 180 days with <3 hours, 116 days with =>6 hours and 21 days with =>12 hours. Wind: The mean speed of 6.8 mph is exactly average. April was the windiest month, mean 8.6 mph, but gusts of over 50 mph were recorded in January, March, November and December, with 63 mph on the 21st January the highest (anomaly +4 mph). Overall winds from NE&E combined were 4.2% less frequent, also S was 1.1 % less frequent, while W&NW combined were 6.3% more frequent. The overall mean wind vector was 237°, 37 year average 232°. Humidity: The overall mean relative humidity was 81.9%, anomaly +2.8%., highest in the past 26 years. The highest monthly mean was 89.9% in October and the lowest 70.6% in June. The absolute lowest was 28% on the 20th June. The mean water vapour content per kg of air was 7.2 g at 0900 GMT and 7.0g at 1500 GMT, anomaly +0.4g for both.</p> <p style="text-align: center;">B.J.Burton. F.R.Met.S. 7th January 2025</p>		



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	25.6	70	3.9	1.6	86	6.2	13	1018.2	0	0	0	8	10	8	5
February	21.6	87	7.8	6.6	92	6.8	14	1010.0	0	0	4	9	6	6	4
March	18.5	80	8.5	6.3	87	6.7	14	1005.2	1	0	3	13	6	3	5
April	36.4	80	10.8	5.8	72	8.5	18	1013.4	0	0	0	0	7	13	10
May	23.7	74	14.8	10.7	77	5.2	11	1012.9	0	0	1	7	10	7	6
June	41.6	58	16.7	10.1	66	6.8	15	1015.0	0	0	0	3	0	14	13
July	37.3	67	18.5	12.8	70	6.8	14	1014.1	0	0	0	4	4	12	11
August	31.7	63	18.6	13.5	73	6.9	14	1014.4	0	0	1	3	6	11	10
September	24.1	79	14.6	12.3	87	6.3	13	1014.6	0	0	3	8	6	7	6
October	16.3	74	11.6	10.5	93	4.6	10	1014.4	1	1	3	8	9	7	2
November	16.7	82	7.4	5.9	90	5.0	10	1020.5	1	0	4	11	7	4	3
December	20.3	82	6.9	5.4	91	7.0	15	1022.6	0	1	6	4	11	5	4
Year	26.1	75	11.7	8.5	82	6.4	13	1014.6	3	2	25	78	82	97	79

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	34.0	69	6.9	2.5	74	8.4	18	1017.2	0	0	3	1	5	11	11
February	32.9	87	10.5	6.7	78	8.6	18	1008.8	0	0	1	3	8	7	10
March	32.5	81	11.8	5.5	66	8.6	18	1004.4	0	0	0	5	8	9	9
April	39.4	82	13.4	5.3	60	9.9	21	1013.3	0	0	0	4	5	5	16
May	33.0	78	18.1	10.4	63	6.3	14	1012.1	0	0	1	3	6	13	8
June	45.8	65	20.0	9.2	51	7.4	17	1014.1	0	0	0	1	2	11	16
July	42.8	73	21.9	12.7	57	7.1	16	1013.4	0	0	0	1	5	8	17
August	35.3	63	22.5	12.6	55	8.6	18	1013.3	0	0	0	3	3	13	12
September	31.7	73	18.0	11.6	68	7.1	16	1013.5	0	0	0	1	10	11	8
October	30.1	74	14.8	10.6	77	5.8	13	1013.5	0	0	2	2	6	15	6
November	25.4	80	9.5	6.2	80	5.5	12	1019.9	0	0	2	6	8	9	5
December	30.5	89	8.3	5.7	84	7.5	17	1021.8	0	0	4	3	7	9	8
Year	34.4	76	14.7	8.3	68	7.6	16	1013.8	0	0	13	33	73	121	126

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 2024

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	8.0	1.6	4.8	-0.3	58.9	-0.9	6.0	7.9	96.8	114.1	1018.2	11	17	1	0	0	0	1	0	236	3.0	7.0	45.3
February	11.6	5.3	8.4	+3.0	120.1	3.4	8.4	8.5	57.8	19.0	1010.0	3	8	0	0	0	0	1	0	223	4.6	7.0	86.1
March	13.0	5.1	9.1	+1.7	80.1	1.9	9.0	9.0	102.1	17.5	1005.2	3	12	0	0	1	0	3	1	196	3.1	6.3	58.6
April	14.9	6.7	10.8	+1.1	59.6	3.6	11.4	10.9	122.7	0.0	1013.4	0	8	0	0	1	1	0	0	229	3.9	7.5	52.0
May	19.4	9.3	14.4	+1.5	63.8	6.1	14.8	13.3	174.1	0.0	1012.9	0	0	0	0	1	0	1	0	228	1.2	4.8	47.0
June	21.4	9.4	15.4	-0.4	11.1	6.2	16.8	15.4	242.3	0.0	1015.0	0	0	0	0	0	0	0	0	267	3.1	5.7	13.4
July	22.9	1.4	17.6	-0.3	55.1	9.8	18.6	17.3	184.9	0.0	1014.1	0	0	0	0	2	0	0	0	264	2.9	5.8	38.3
August	23.6	13.2	18.4	+0.7	22.7	10.1	19.3	18.4	210.7	0.0	1014.4	0	0	0	0	1	0	0	0	229	3.9	5.8	18.8
September	19.3	10.4	14.9	0.0	146.0	8.0	16.8	17.0	125.5	0.0	1014.6	0	3	0	0	6	0	1	0	293	1.0	4.9	70.0
October	15.7	8.0	11.9	+0.4	50.6	5.4	13.7	14.6	96.9	0.0	1014.4	0	2	0	0	0	0	0	2	220	0.9	4.0	52.4
November	10.6	4.7	7.7	-0.1	73.8	2.8	10.8	12.5	68.7	47.2	1020.5	6	10	1	0	0	0	0	1	218	1.0	4.5	58.0
December	9.5	4.8	7.2	+1.8	35.5	3.3	8.6	9.8	31.1	0.8	1022.6	1	7	0	0	0	0	0	1	257	3.9	7.3	53.2
Year	15.9	7.6	11.7	+0.7	777.3	5.0	12.9	12.9	1513.6	198.6	1014.6	24	67	2	0	12	1	7	5	237	2.5	5.9	593.1

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	Th	Ic	Fg	ddd	ff	sp			
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
2024	15.9	7.6	11.7	+0.7	32.1	-7.4	777	5.0	12.9	12.9	1514	199	1014.6	24	67	2	0	12	1	7	5	237	2.5	5.9

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 & 2024
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	2023	11.9	1892	8.5	1903	952	1921	337	2020	5.3	1958	3.5
2	2022	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	2024	11.7	1891	8.7	2000	872	1887	487	2003	5.2	1981	3.7
5	2006	11.7	1963	8.8	1960	857	1947	491	1990	5.1	1912	3.8
6	2018	11.6	1919	8.9	2002	853	2005	492	1989	5.1	1931	3.8
7	2014	11.6	1962	8.9	1916	842	1996	508	1911	5.1	1936	3.8
8	2011	11.5	1917	9.0	1974	837	1933	509	1949	5.0	1960	3.8
9	2017	11.4	1890	9.0	1915	815	1898	510	1929	5.0	1966	3.8
10	2002	11.4	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.