

# WOKINGHAM METEOROLOGICAL DATA

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

Altitude 45 m ASL.

Emmbrook,

Wokingham,

Berkshire.

Annual

Summary

2022

## Temperature

	°C	°F	Anom	Rank in 141 years
Mean maximum	16.8	62.2	(+1.5)	<b>*New Record Highest*</b>
Mean minimum	7.0	44.6	(+0.3)	9th highest
Daily mean	11.9	53.4	(+0.9)	<b>*New Record Highest*</b>
Highest maximum	38.8	101.8		on 19th July
Lowest maximum	-0.8	30.6		on 12th December
Highest minimum	20.2	68.4		on 13th July
Lowest minimum	-8.6	16.5		on 15th December
Mean grass minimum	4.1	39.4	(+0.5)	
Lowest grass minimum	-12.3	9.9		on 15th December
Mean 30cm earth temp.	12.7	54.9	(+0.7)	
Highest 30cm	21.1	70.0		on 15th August
Lowest 30cm	3.3	37.9		on 19th December
Mean 100cm earth temp	12.8	55.0	(+0.6)	
Highest 100cm	19.2	66.6		on 17th August
Lowest 100cm	6.6	43.9		on 25th January
Warmest month	August			daily mean 20.3°C, 68.5°F
Coollest month	December,			daily mean 3.6°C, 38.5°F

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

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

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	83	96
-10.0 to -5.1	0	7	15.0 to 19.9	96	23
-5.0 to -0.1	2	34	20.0 to 24.9	74	1
0.0 to 4.9	14	86	25.0 to 29.9	36	0
5.0 to 9.9	47	118	30.0 to 34.9	11	0
			35.0 to 39.9	2	0

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

	Jan	Feb	Mar	Apr	May	Jun	
Air frost	16 (+6)	2 (-8)	3 (-3)	5 (+2)	0 (-1)	0 (0)	
Ground frost	19 (+2)	12 (-5)	18 (+2)	15 (+2)	1 (-4)	0 (-1)	
	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Air frost	0 (0)	0 (0)	0 (0)	0 (-2)	0 (-5)	15 (+5)	41 (-6)
Ground frost	0 (0)	0 (0)	3 (+3)	3 (-4)	5 (-8)	20 (+4)	96 (-10)

Date of: last spring air frost, 30th April ground frost, 9th May  
 first autumn air frost, 1st December ground frost, 17th September  
 Frost free period, air 214 days, (+24) ground 130 days, (+7).  
 Annual total of air frost duration: 389.4 hours (+19)  
 Frostiest month December. 229.0 hours

[Difference from 1991-2020 average in brackets]

Temperature anomaly in deg C

**Rainfall.**

Total **595.4** mm 23.44 inches ( 89 % ) 46th lowest in 141 years

Number of : Rain days 146 (-16) Wet days 99 (-15) Days => 5mm 40 (-4)

A rain day has at least 0.2 mm

A wet day has at least 1.0 mm

Highest daily fall to 9am: 29.2 mm on 2nd November.

Wettest month, November 118.3 mm 159 % of average  
 Driest month, July 11.8 mm 25 % of average

Duration of measurable rainfall; 415.9 hours (-103 hr) Longest in a day; 15.5 hours on 1st March  
 Highest monthly duration; 71.8 hours in November Lowest ; 4.2 hours in July

Number of dry spells, (5 or more consecutive dry days): 11  
 Longest dry spell; 20 days, 21st July to 14th August  
 Total number of : Dry days, 219 (+16) Days in dry spells, 122

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

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

(See note 2, page 4)

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

Rate mm/hr	Days	Rate mm/hr	Days
<10	101	50 to 100	13
10 to 25	21	100 to 250	6
25 to 50	13	>250	0
		Missing *	0
Highest rate	200 mm/hr on 8th September		

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

Hours	Days	Hours	Days	Hours	Days
0	181	6.1 to 9.0	11	18.1 to 21.0	0
0.1 to 1.0	86	9.1 to 12.0	3	21.1 to 24.0	0
1.1 to 3.0	49	12.1 to 15.0	3	Missing *	0
3.1 to 6.0	31	15.1 to 18.0	1	*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	219	10.0 to 19.9	14
0.2 to 0.9	47	20.0 to 29.9	3
1.0 to 4.9	59	30.0 to 39.9	0
5.0 to 9.9	23	> 39.9	0

**Sunshine.**

(Recorded on an electronic sunshine detector)

Total **1913.1** hours Daily mean **5.24** hours ( 117 % )

Sunniest day 15.5 hours on the 21st June  
 Number of days: Nil sun 40 (-13) =>12 hrs 33 (+12)

**Weather.**

Number of days with:

Snow or sleet falling; 6 (-6)  
 Snow lying at 0900 GMT; 3 (-1)  
 Thunder heard; 10 (-4)  
 Hail; 7 (-5) =>5mm; 0 (-2) <5mm, 7 (-3)  
 Fog at 0900 GMT; 9 (0)

**Air Pressure,**

corrected to MSL.

Mean at 0900 GMT **1017.2** mbar (+1.4)  
 Absolute highest 1043.4 mbar on 18th March  
 Absolute lowest 974.8 mbar on 16th November  
 Span 68.6 mbar (-1.0)

[Difference from 1991-2020 average in brackets]

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

Month	Mean speed mph	Windyest day		Highest gust		Calm 0.5 mph or less hours
		Mean mph	Date	mph	Date/time (GMT)	
January	5.5	11.5	29th	38	31/1303	21.2
February	10.6	19.5	18th	69	18/1312	1.3
March	6.2	12.3	13th	36	13/1157	18.2
April	6.4	15.7	7th	52	7/1351	15.2
May	6.1	10.1	26th	31	25/1106	8.9
June	6.2	9.7	8th	35	8/1429	8.9
July	5.8	11.5	24th	33	24/1445	11.6
August	5.0	8.8	2nd	25	30/1633	23.7
September	4.7	9.6	26th	31	30/1908	17.7
October	6.1	12.4	5th	38	5/1020	20.9
November	7.1	13.0	1st	47	1/0251	7.6
December	6.3	15.3	19th	37	19/1109	7.9
Year	6.3	19.5	18th February	69	18th February	163

**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	34	22	21	12	11	19	65	182	190	97	55	36
February	0	0	1	6	11	24	63	137	257	145	22	6
March	54	119	193	72	34	85	81	44	17	8	15	22
April	45	182	109	32	18	19	34	64	111	66	23	17
May	39	37	43	32	11	14	54	176	190	89	30	29
June	34	96	62	15	13	24	83	210	110	50	7	16
July	73	35	38	29	22	24	56	137	109	72	84	65
August	64	120	92	51	12	6	49	156	84	35	32	43
September	69	72	32	16	22	37	123	104	59	56	53	77
October	20	14	50	41	28	71	127	238	121	19	4	11
November	16	12	30	34	30	52	96	239	129	46	24	12
December	61	145	24	10	3	9	62	209	107	26	35	53
Year	509	854	695	350	215	384	893	1896	1484	709	384	387

## Appendix 1.

**Monthly statistics from the electronic sunshine detector, 2022.**

Note:

Month	Total hours	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	94.1	8.0 on 17th	7	12	4	8	0	0
February	101..6	10.3 on 27th	5	6	12	2	3	0
March	175.9	11.8 on 26th	7	3	6	5	10	0
April	187.4	13.6 on 21st	1	8	5	6	5	5
May	180.4	13.3 on 27th	1	10	4	9	5	2
June	238.2	15.5 on 21st	1	3	8	8	2	8
July	237.4	15.2 on 10th	0	10	2	7	3	9
August	239.1	14.8 on 7th	0	4	8	8	2	9
September	130.3	11.7 on 17th	2	9	10	8	1	0
October	164.9	10.3 on 6th	0	5	13	10	3	0
November	89.3	7.8 on 25th	6	8	12	4	0	0
December	74.5	7.4 on 8th	10	11	3	7	0	0
Year	1913.1	15.5	40	89	87	82	34	33

## Appendix 2.

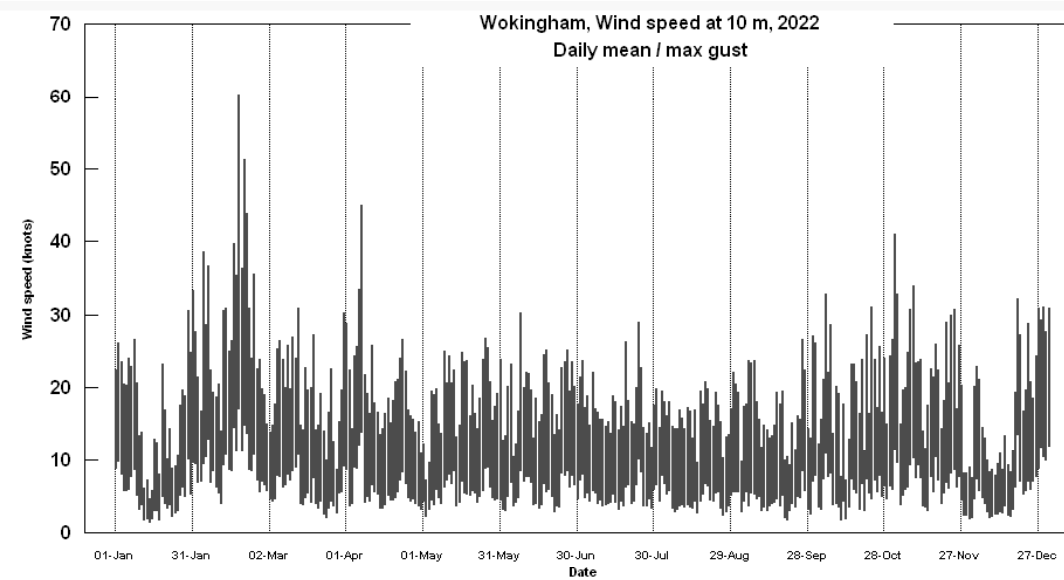
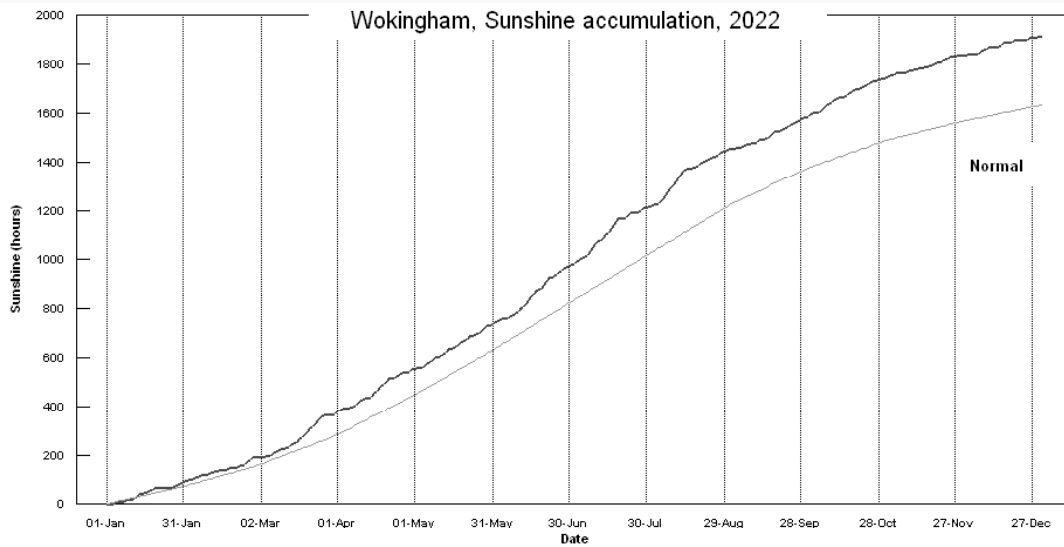
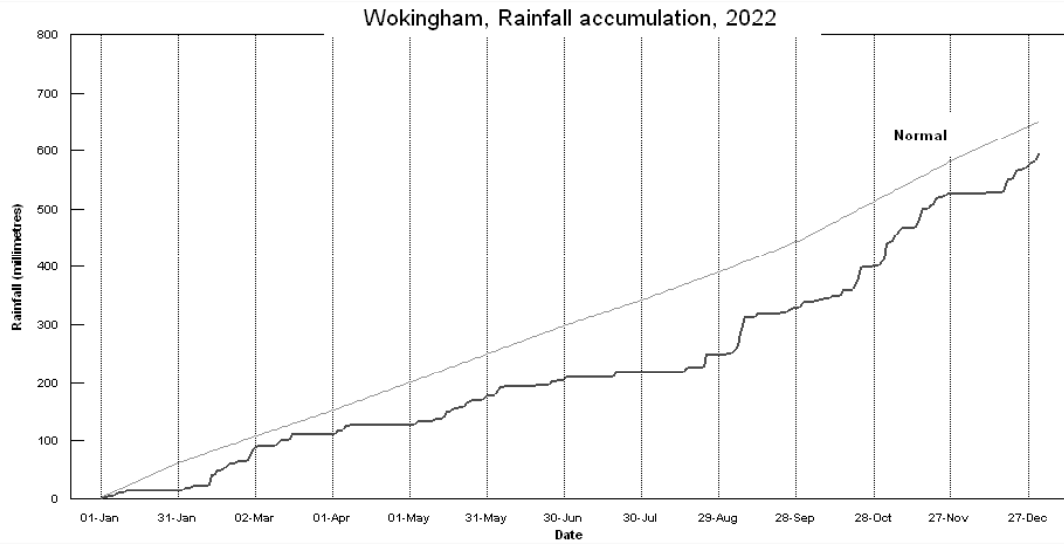
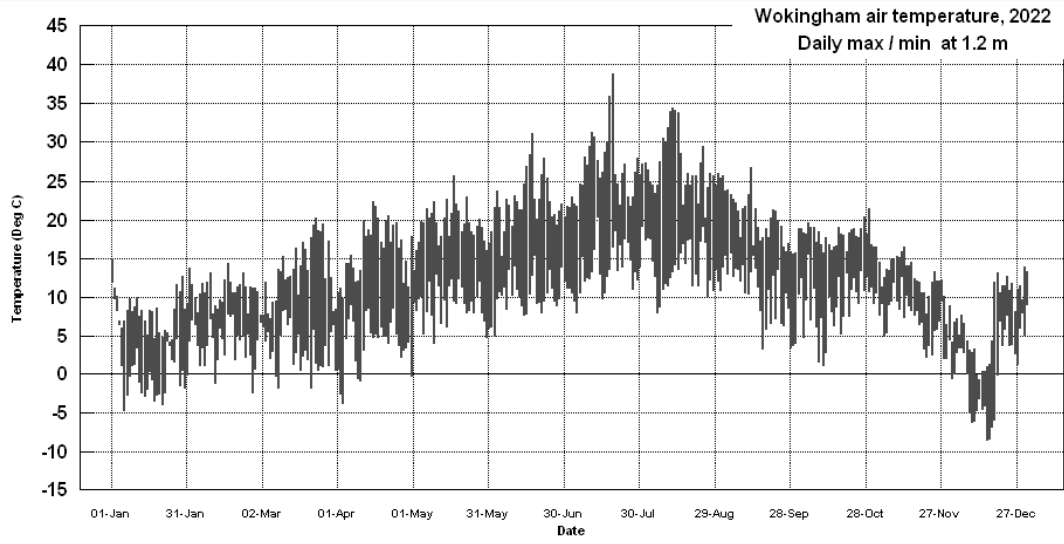
**Monthly categories, quick look table, 2022.**

Month	Temperature Category	Rainfall Category	Sunshine Category	Index	(see note 1)
January	3 Normal	5 Very dry	5 Very sunny	13	
February	5 Very mild	2 Wet	5 Very sunny	12	
March	5 Very mild	3 Normal	5 Very sunny	13	
April	4 Warm	4 Dry	4 Sunny	12	
May	5 Very warm	3 Normal	3 Normal	11	
June	3 Normal	4 Dry	4 Sunny	11	
July	5 Very warm	5 Very dry	4 Sunny	14	
August	5 Very warm	4 Dry	5 Very sunny	14	
September	4 Warm	2 Wet	3 Normal	9	
October	5 Very mild	3 Normal	5 Very sunny	13	
November	5 Very mild	1 Very wet	4 Sunny	10	
December	2 Cold	3 Normal	5 Very sunny	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	<b>Annual Summary 2022</b>		page5
	<b>Summary of notable features during 2021.</b>		
<b>January</b>	Very dry and very sunny with below average temperature. Mean maximum ranks 47th highest and mean minimum 43rd lowest in 141 years. Mean minimum 3rd lowest in this millennium. The highest max is equal highest with 1998 in the past 119 years. Highest min is 2nd highest in 110 years. 8th driest in 141 years and driest since 1997. Second sunniest after 2003..3rd lowest January wind speed in 35 years. Mean pressure highest since 1992. Pressure pulse from the Tonga volcanic explosion observed here on the 15th, 16th and 17th..		
<b>February</b>	Very mild and wet but with above average sunshine. Damaging wind storm on 18th. Mean temperature 8th highest in 141 years. Lowest max 3rd highest in 110 years. Gust of 69 mph in wind-storm on 18th is 2nd highest for February since 70 mph in 1990.		
<b>March</b>	Sunny with average rainfall. Mild by day but average by night. Mean max 1.8° above average, mean min exactly average. Notable fall of Saharan dust on 16th . Sunshine 140 % of average.		
<b>April</b>	Mean temperature and sunshine above average, very dry. Mean maximum anomaly +1.4° and 8th highest in 141 years, mean minimum -0.9°, 71st highest. Rainfall 31% of average, but only the 4th driest this millennium. Mean wind speed on the month's windiest day is equal highest for any April day since 1994.. A relative humidity of 16% on 17th is lowest April value for the past 25 years.		
<b>May</b>	Very mild with above average rainfall and below average sunshine. Mean min is highest since 1999 and 3rd highest in 141 years and daily mean 5th highest. The lowest min is 2nd highest in 119 years. Spectacular lightning during thunderstorm on 18th.		
<b>June</b>	Warm, sunny and quite dry. Mean maximum ranks 11th highest in 141 years. Only 3.3 mm of rain between the 6th and 23rd. 4th sunniest June this millennium.		
<b>July</b>	Very hot, very dry and sunny. Record breaking heatwave near mid-month. The mean max is 5th highest and daily mean 4th highest in the past 141 years. Temperature reached a new record value of 38.8° on 9th, 1.9° above the previous all time high for Wokingham.. The lowest max is 2nd highest in 111 years. The highest min is a new all-time record high. Driest July since 1994 with 27 dry days, 7 more than average. Rainfall duration lowest for any July since before 1993. 4th sunniest July this millennium.		
<b>August</b>	Dry and very sunny. Very warm with a heatwave in the first half of the month. Mean temperature 20.3° is a new record high for the past 141 years. The mean maximum is equal highest with 1947 in the same period. Highest max 5th highest in 119 years, lowest max 2nd highest in 110 years, highest min 6th highest in same period. 25 dry days, 6 more than average, most since 2003. Rainfall duration lowest since 1995. Sunniest since 1998. 8 days to the 14th had an average 97% of the maximum. Highest wind gust equal lowest since before 1988. Relative humidity lowest for August in the past 25 years.		
<b>September</b>	Wet with near average temperature and below average sunshine. Rainfall 164% of average, 2nd wettest September this millennium		
<b>October</b>	Very mild and very sunny with average rainfall. Mean max 2nd highest in 141 years, daily mean temperature 4th highest. The lowest max is a new high record in the past 110 years. Daily max temperature above normal every day except 11th. Significant thunderstorm on 23rd with a wind squall of 36 mph. Sunniest since 1999 and first October in 43 years with no sunless days.		
<b>November</b>	Very mild and very wet with above average sunshine. Mean temperature 4th highest in 141 years. Lowest min a new record high in the past 119 years. Lowest grass min highest in the past 44 years. Only the 5th November in 67 years with no air frost. Rainfall 12th highest in 141 years. Despite sunshine 13% above average, 2016, 2017 and 2018 were all sunnier. The month's lowest humidity is highest in the past 25 years.		
<b>December</b>	Cold with above average rainfall and sunshine. Cold and dry to the 17th, then mild and wet. Coldest since 2010. 48 hours of continuous air frost, 11th/12th. Duration of air frost is 137 hours above average and 2nd highest after 2010 since 1981. All but 1.3 mm of the rainfall total fell after the 17th. Snow fell on 11th/12th, and lay with a maximum depth of 1cm, with some still visible until the 18th. 2nd sunniest in the past 7years. The month's lowest humidity is highest in the past 25 years.		
<b>Year</b>	<p><b>Temperature:</b> The annual values for 2022 confirm the continuing upward trend in air temperature. The mean maximum and daily mean temperature are both highest in the Wokingham series going back to 1882. The new record mean of 11.9° is 0.1° above the previous highest in 2020. Of the 10 warmest years on record, 8 have been since 2002, and all since 1990. The mean maximum is 0.4° above the previous highest in 2020. The mean minimum ranks 9th highest in 141 years, and is 0.6° below the record set in 2006. This year's highest max is 8.3° above the long-term median and a new record, while the lowest max is 0.5° below its median. The highest min is 3.0° above the median and is also a new record, while the lowest min is 0.8° below its median. Earth temperature at 30 cm depth is highest since 2014, and at 1 m depth is equal highest with 2014 since before 1990. The number of days with air frost is 6 fewer than average. The number of days with ground frost is equal 2nd lowest since 2006. The duration of air frost is slightly less than in 2021, but more than in other years since 2013. <b>Rainfall:</b> This year's total, while only 89 % of average, is lowest only since 2015, and 5 years in this millennium have been drier. The whole of the summer and late spring seasons were very dry. As a result a shortage of water developed, and by mid-August there was an accumulated deficit of around 150 mm here in Wokingham. As a result soil moisture deficit became extremely high. An index of severe stress for shallow rooted unirrigated plants was 1083 for the summer season, the highest value since 1995, compared with an average of 648. The situation improved throughout the autumn, especially with a very wet November. This year's highest daily fall of 29.2 mm is almost exactly on the long-term median. The number of days with rainfall rates of 100 mm/hr or more, 6, is similar to that in 2021, and is almost twice the average. The number of days with rainfall duration of 6 or more hours, 18, is equal 3rd lowest with 2011 in this millennium (average 24 days). Large hail was absent again this year, so none since 2020. This is the first time since before 1976 for 2 consecutive years to have none. Snow fell on 6 days, well below average, and only lay for 3 days, in the December cold episode. <b>Sunshine:</b> This has been a sunny year overall, the daily mean of 5.24 hours is 3rd highest in this millennium, and only slightly less than the 5.30 hours in 2020, which hold the record. Sunshine accumulation was close to normal until early March, but a sunny end to that month saw a surplus over normal develop, and this increased substantially between mid-June and mid-August, with further smaller increases trough October and December. The number of days with nil sun is equal lowest with 2007 since 2003. June was the sunniest month, daily mean 7.94 hours, but August was a close second with 7.71 hours, and July not far behind with 7.66 hours. December was the least sunny, mean 2.40 hours, yet was 9 % above average. Compared with average, October with 144 % came out best, but only May and September had less than average, with the 84 % in September the poorest. <b>Wind:</b> The mean speed of 6.3 mph is 0.5 mph below average and is lowest since 2010. February was the windiest month and September the least windy. There was a notable wind-storm on 18th February with gusts to 69 mph. The duration of calm is highest since 2007. The annual vector mean direction of 223° (SW) is normal. Compared with average, winds from S were 5.1% more frequent, while SW and E combined were 3.7 % less frequent. <b>Humidity:</b> The overall mean was 78.0 % and the lowest value 16% in April. Mean water vapour content was 0.1 g above average.</p> <p style="text-align: center;">B.J.Burton. F.R.Met.S.</p> <p style="text-align: right;">5<sup>th</sup> January 2023</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	13.9	61	3.5	2.0	91	4.5	9	1026.4	2	1	3	11	9	3	2
February	24.5	70	7.0	4.0	82	9.8	20	1016.0	0	0	0	7	9	8	4
March	12.7	61	7.8	4.9	82	5.7	12	1022.9	0	1	8	8	8	6	0
April	26.1	66	11.0	5.4	59	6.2	13	1016.5	0	0	0	8	7	10	5
May	24.5	75	14.3	9.3	72	5.9	13	1019.1	0	0	1	5	10	9	6
June	32.1	62	17.3	10.4	65	5.9	13	1015.9	0	0	0	2	6	16	6
July	48.9	61	21.0	12.1	58	6.1	12	1021.4	0	0	0	0	0	10	21
August	34.2	58	20.7	14.0	67	5.2	11	1018.5	0	0	2	2	3	14	10
September	21.9	76	14.7	11.8	83	4.8	10	1013.9	0	0	2	6	12	4	6
October	18.6	65	12.9	11.2	90	5.6	12	1014.9	1	1	2	4	13	7	3
November	13.9	79	9.4	8.2	92	6.2	13	1007.9	0	1	3	13	7	5	1
December	12.8	75	2.8	1.9	94	5.0	10	1012.3	2	0	10	7	7	3	2
Year	23.8	68	11.9	8.0	79	5.9	12	1017.2	5	4	31	73	91	95	66

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	21.9	70	7.2	3.4	78	5.9	13	1025.4	0	0	2	7	6	15	1
February	35.9	74	9.9	3.9	67	10.6	23	1015.0	0	0	1	2	3	12	10
March	24.5	57	12.4	4.0	60	7.6	16	1021.1	0	0	2	5	9	12	3
April	38.9	75	14.8	3.8	49	7.9	17	1015.3	0	0	0	0	6	11	13
May	39.4	77	18.0	9.0	57	7.3	16	1017.7	0	0	1	2	4	11	13
June	41.4	67	20.9	10.0	51	7.2	16	1015.4	0	0	0	0	3	12	15
July	49.8	70	25.2	11.2	44	6.7	14	1020.3	0	0	0	0	3	7	21
August	48.3	60	25.6	11.6	45	6.1	14	1017.0	0	0	0	1	3	6	21
September	40.8	77	18.5	10.8	62	5.7	13	1012.8	0	0	1	2	3	9	15
October	35.4	64	16.6	10.5	68	7.1	16	1014.0	0	0	0	0	9	12	10
November	32.0	61	11.3	8.3	82	6.7	16	1007.0	0	0	1	5	5	10	9
December	18.9	71	6.1	3.7	85	6.5	14	1011.1	1	1	3	7	9	7	3
Year	35.9	69	15.6	7.5	62	7.1	16	1016.1	1	1	11	31	63	124	134

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 2022

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	8.1	0.7	4.4	-0.7	15.9	-1.1	6.2	7.9	94.1	106.8	1026.4	16	19	2	0	0	0	3	238	3.3	4.8	17.2	
February	10.9	3.8	7.3	+1.9	57.6	1.1	6.8	7.4	101.6	12.6	1016.0	2	12	0	0	0	2	0	231	7.8	9.2	59.9	
March	13.4	3.2	8.3	+0.9	40.1	0.3	8.2	8.1	175.9	16.1	1022.9	3	18	1	0	0	1	1	87	2.0	5.4	48.5	
April	16.2	3.8	10.0	+0.3	14.8	-0.1	10.6	9.9	187.4	24.9	1016.5	5	15	1	0	1	0	1	0	325	0.8	5.6	13.4
May	19.4	8.9	14.1	+1.2	50.8	5.8	14.5	13.1	180.4	0.0	1019.1	0	1	0	0	2	0	2	0	233	3.1	5.3	29.0
June	22.4	10.2	16.3	+0.5	28.5	7.3	17.2	15.7	238.2	0.0	1015.9	0	0	0	0	2	0	0	0	214	2.3	5.4	28.1
July	26.4	13.4	19.9	+2.0	11.8	10.2	19.4	17.6	237.4	0.0	1021.4	0	0	0	0	0	0	0	0	243	2.2	5.0	4.2
August	26.9	13.6	20.3	+2.6	30.3	10.3	20.1	18.8	239.1	0.0	1018.5	0	0	0	0	1	0	0	0	261	0.4	4.3	9.1
September	20.0	10.2	15.1	+0.2	87.7	7.5	17.2	17.6	130.3	0.0	1013.9	0	3	0	0	3	0	0	0	253	1.0	4.1	36.3
October	18.0	8.9	13.5	+2.0	72.2	6.3	13.9	14.8	164.9	0.0	1014.9	0	3	0	0	1	0	0	2	197	3.6	5.3	37.8
November	12.7	6.9	9.8	+2.0	118.3	4.2	11.5	13.0	89.3	0.0	1007.9	0	3	0	0	0	0	1	1	208	4.6	6.2	71.8
December	7.0	0.2	3.6	-1.8	67.4	-2.4	6.8	8.8	74.5	229.0	1012.3	15	20	2	3	0	0	2	220	2.3	5.5	60.6	
Year	16.8	7.0	11.9	+0.9	595.4	4.1	12.7	12.8	1913.1	389.4	1017.2	41	96	6	3	10	0	7	9	223	2.3	5.5	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			
2011	15.9	7.0	11.5	+0.8	28.6	-5.6	589	3.9	12.3	12.6	1639	194	1016.6	36	96	5	0	10	0	3	8	229	2.7	5.8
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

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	<b>16.8</b>	<b>in 2022</b>
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	<b>11.9</b>	<b>in 2022</b>
Lowest annual mean temperature	8.4	in 1887
Highest recorded temperature	<b>38.8</b>	<b>on 19th Jul 2022</b>
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	1940	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	<b>2022</b>	<b>11.9</b>	1892	8.5	1903	952	1921	337	2020	<b>5.3</b>	1958	3.5
2	2020	11.8	1888	8.7	1951	887	1990	459	2018	5.2	1932	3.7
3	2006	11.7	1887	8.7	2014	883	1902	477	<b>2022</b>	<b>5.2</b>	1968	3.7
4	2018	11.6	1891	8.7	2000	872	1887	487	2003	5.2	1981	3.7
5	2014	11.6	1963	8.8	1960	857	1947	491	1990	5.1	1912	3.8
6	2011	11.5	1919	8.9	2002	853	2005	492	1989	5.1	1931	3.8
7	2017	11.4	1962	8.9	1916	842	1996	508	1911	5.1	1936	3.8
8	2002	11.4	1917	9.0	1974	837	1933	509	1949	5.0	1960	3.8
9	1999	11.3	1890	9.0	1915	815	1898	510	1929	5.0	1966	3.8
10	1990	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.