

WOKINGHAM

METEOROLOGICAL

DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

Lat/Long 51°25'N 00°51'W NGR (SU)798701 Altitude 46m ASL.

Monthly Means and Totals

APRIL 2025

Temperature (°C)	Anomaly	Rank in the past	144	years
Mean maximum	18.4	+3.6	3rd highest	
Mean minimum	4.9	+0.2	25th highest	
Daily mean	11.6	+1.9	3rd highest	
Highest maximum	26.1	on 30th	Lowest maximum	14.0 on 23rd
Highest minimum	10.1	on 19th	Lowest minimum	0.1 on 8th
Mean grass minimum	0.6	-0.4	Lowest grass minimum	-4.8 on 8th
Mean earth @30 cm	11.0	+0.8	Earth @100 cm	10.2 +0.7
Frost duration (hrs)	0.0		Rain duration (hrs)	13.0
Rainfall total (mm)	13.5	28 %	13th lowest	
Highest daily fall	9.2	on 22nd	Highest rate mm/hr	8 on 15th
Number of: Dry days (<0.2mm)	23	Wet days (>0.9mm)	3	days ≥5mm 1
Sunshine total (hrs) 255.1	Daily mean 8.50	150 %	Sunniest day	14.3 on 30th
N° days with: Air frost 0	Ground frost 17	Snow falling 0	Snow lying 0	
Thunder 0	Hail ≥5mm 0	Small hail/ice 0	Fog @09 0	Nil sun 0
Pressure MSL: Mean @09 GMT, mbar 1018.1	+3.1	Highest 1033.0	on 10th	Lowest 994.4 on 15th
Relative humidity: Mean (%) 68.1	Lowest 24	on 11th	Water vapour (g/kg), mean at 09 and 15 GMT	5.9, 5.5
Overall mean wind speed (mph) 5.9	Windiest day 12.6	on 16th	Max gust 39	on 16th
Wind direction (days) N 0	NE 10	E 9	SE 4	S 1 SW 5 W 1 NW 0
Least windy day (mph) 2.4	on 28th	Calm; less than 0.5 mph (minutes)	n/a	

Anomaly = departure from 1991 to 2020 average (degrees C, percent and mbar).

Notes:

Very Warm. Very Dry. Very Sunny.

Temperature: Both the mean maximum and daily mean are 3rd highest in 144 years, but are only highest since 2011, the record holder. The mean minimum, however, ranks 25th highest, indicating an enhanced mean daily temperature range, which indeed is 2nd highest for April after 2020 in the past 50 years.. Compared with the 144 year median values, the anomaly for mean maximum is +4.8° while that for the mean minimum is +1.0°. The highest max is 5.2° above the median and 5th highest in 122 years, while the lowest max is 5.9° above its median and is the highest in 113 years. The highest min is 0.3° above the median while the lowest min is 2.0° above its median. The mean grass min is close to average but the lowest daily value is 2.1° above average. Earth temperature at both 30 cm and 1 m depth is above average. Anomalies for daily max were above +9° on the 4th, 11th, 12th, 29th and 30th, and was negative on only the 23rd, with extreme values of +11.6° on the 4th (also +10° on the 12th and 30th), and -0.6° on the 23rd. Anomalies for daily min were over +5° on the 13th and 19th, and exceeded -3° on the 8th, 9th and 17th, with extreme values of +6.0° on the 19th and -3.3° on the 8th. **Rainfall:** This has been a very dry April, following on from a very dry March. The rainfall on the month's wettest day, 9.2 mm on the 22nd, provided 68% of this month's total, and it was the wettest day since the 26th February. The number of dry days is 5 above average. A 16 day dry spell ended on the 12th, and another was unbroken on the 30th after 8 days. There have been 3 drier Aprils in this millennium, the last in 2017. Rainfall duration is 26 hours below average. Rainfall accumulation compared with normal was 20 mm in deficit by the 12th, increasing to 29 mm by the 21st and to 35 mm by the 30th. There was no thunder or hail this month, and the highest rainfall rate failed to reach the heavy shower category of 10 mm/hr. **Sunshine:** An outstanding month with 150% of the average sunshine, and almost the same as the 156% we had in March. Despite this surplus of sunshine it was not the sunniest April in this millennium. That accolade stays with 2020 which had 10.4 hours more sunshine than this April. In this millennium only the Aprils of 2007, 2020 and 2025 have had a daily mean over 8.0 hours per day There were 2 notably sunny periods, the first started on the 29th March and continued until the 12th April, having 161.9 hours in 14 days, a mean of 11.6 hours per day. The second was from 27th to 30th, a 4 day period with a mean of 13.3 hours per day. The 6 dullest days, having 20 % or less of the maximum, were the 13th, 15th, 18th, 21st, 23rd and 26th. Overall there were 6 days with <3 hours, 20 with =>6 hours and 10 with =>12 hours. **Wind:** The mean speed this April is 0.9 mph below average, but is lowest only since 2023. The month's highest gust is close to average. Daily mean speed was fresh on the 1st, 2nd, 16th and 19th, otherwise light or moderate, and light every day after the 23rd. Daily mean direction was mainly between N and E, except for between E and S on the 12th, 14th, 15th, 17th, 18th and 28th and between S and W on the 11th, 13th 16th, 21st 22nd and 27th.

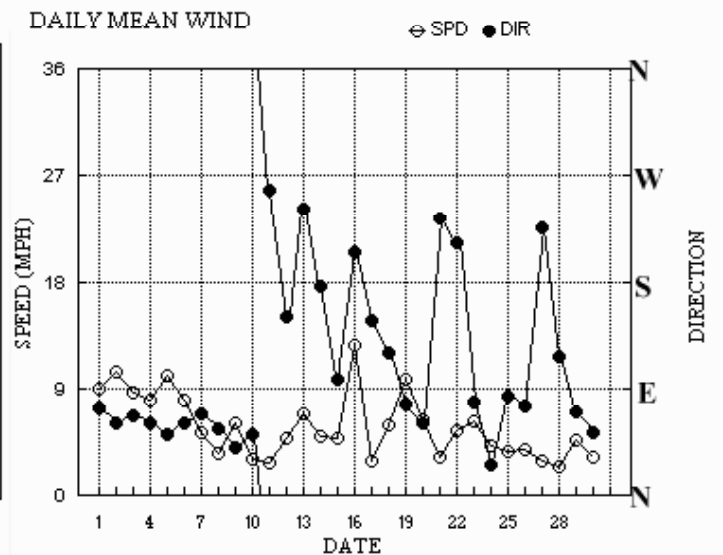
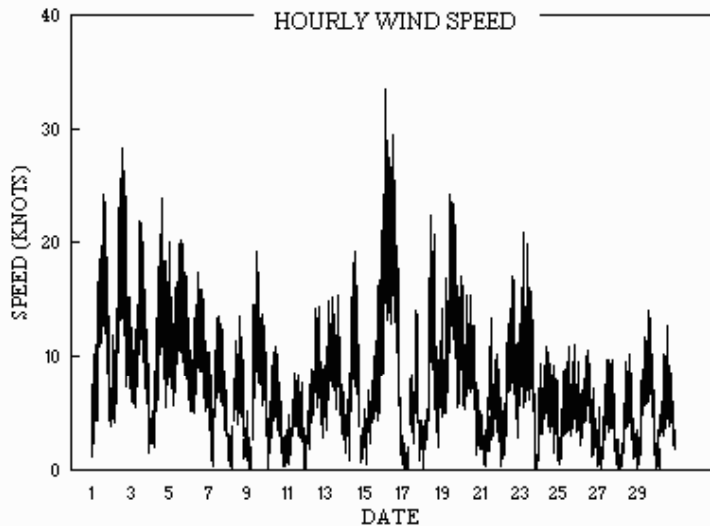
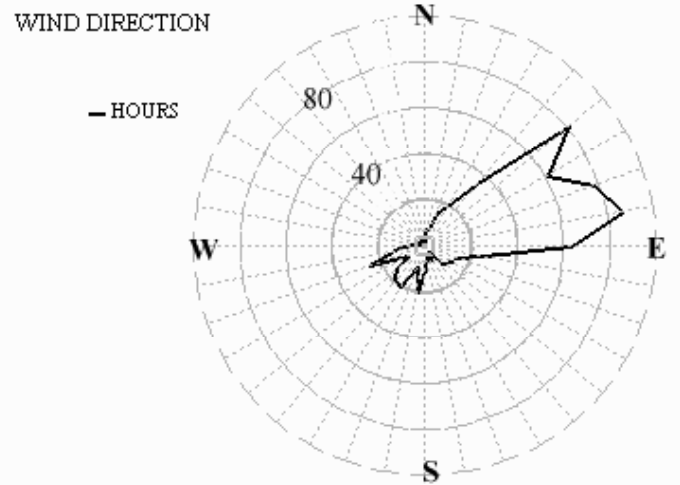
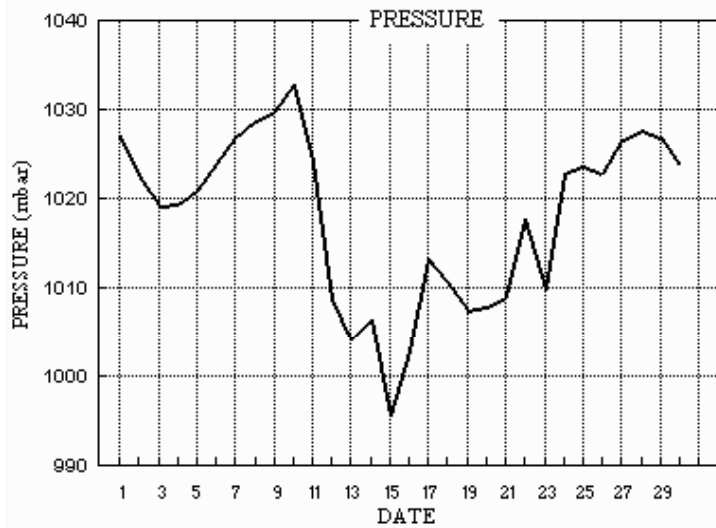
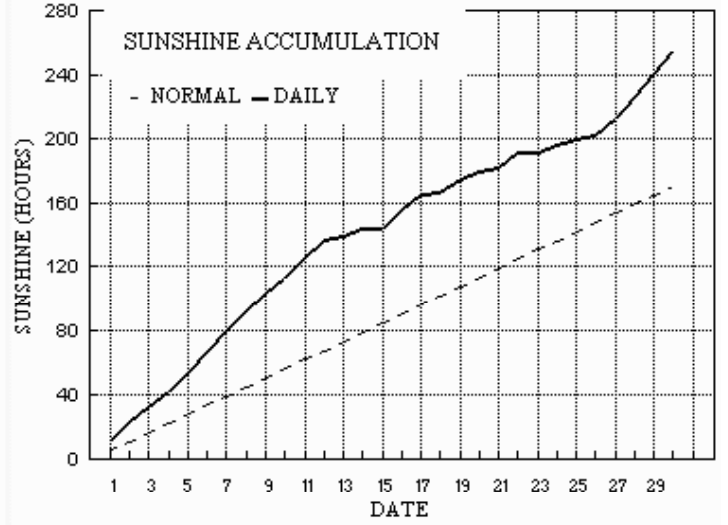
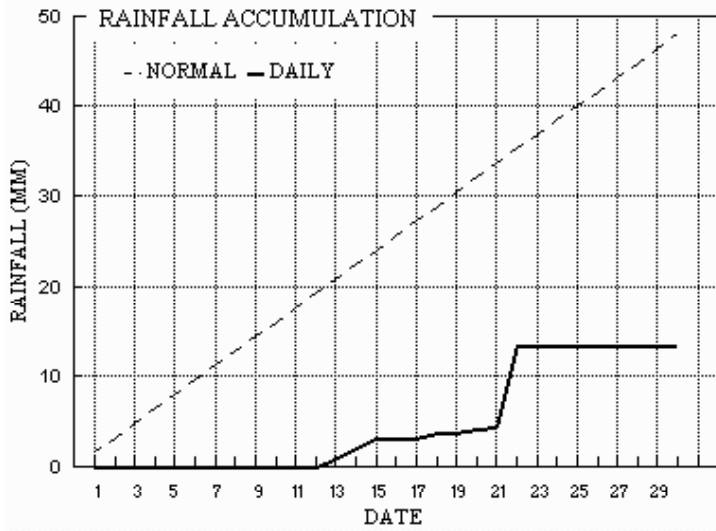
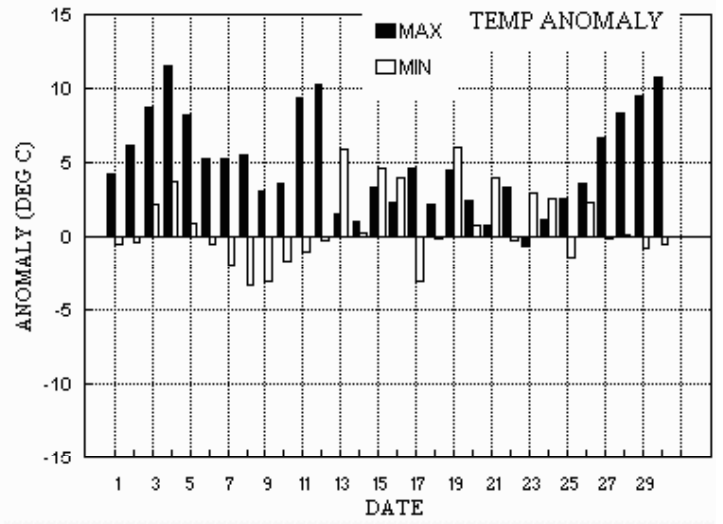
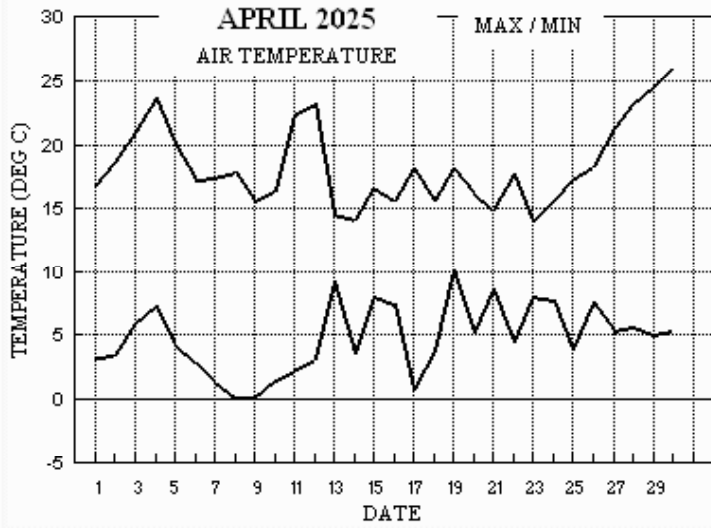
Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

From the 1 st to the 10 th				From the 11 th to the 20 th				From the 21 st to the 30 th			
+6.2°	-0.5°	0 %	201%	+4.1°	+1.7°	26%	115%	+4.6°	+0.9°	59%	133%

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham climatological graphs for April 2025



Month: APRIL 2025

Date	Max C	Min C	Rain mm	Grass Min	30cm C	100cm C	Sun hrs	Frost hrs	pp09 mbar	Af Gf	Sf Sl	Th Ha	Ic Fg	Vec ddd	mean ff	sp	Max gust ddd	gg	HHhh	High hr ddd	ff	Rain HH	hrs			
1	16.8	3.3	0.0	-2.6	9.6	9.1	12.0	0.0	1027.0	0	1	0	0	0	0	0	74	7.8	7.8	79	24	1320	78	15	13	0.0
2	18.6	3.5	0.0	-3.0	9.5	9.1	12.5	0.0	1022.7	0	1	0	0	0	0	0	62	8.9	9.1	64	29	1500	70	15	15	0.0
3	21.0	5.9	0.0	-0.1	9.6	9.2	9.4	0.0	1019.2	0	1	0	0	0	0	0	68	7.3	7.5	82	22	1200	72	12	12	0.0
4	23.7	7.3	0.0	3.0	10.2	9.3	8.3	0.0	1019.5	0	0	0	0	0	0	0	62	6.7	7.0	87	24	1420	82	12	13	0.0
5	20.1	4.3	0.0	-1.7	10.5	9.4	12.8	0.0	1020.9	0	1	0	0	0	0	0	51	8.8	8.9	63	20	1325	43	11	00	0.0
6	17.2	2.8	0.0	-2.7	10.4	9.6	13.0	0.0	1023.9	0	1	0	0	0	0	0	61	6.8	7.0	63	17	1210	71	10	11	0.0
7	17.4	1.3	0.0	-3.9	10.1	9.7	13.0	0.0	1026.8	0	1	0	0	0	0	0	69	4.4	4.7	60	14	1250	64	8	10	0.0
8	17.8	0.1	0.0	-4.8	10.0	9.7	12.0	0.0	1028.7	0	1	0	0	0	0	0	57	3.0	3.2	44	14	1525	47	7	15	0.0
9	15.7	0.2	0.0	-4.5	9.9	9.7	11.4	0.0	1029.8	0	1	0	0	0	0	0	41	5.3	5.4	55	19	1300	30	11	11	0.0
10	16.4	1.5	0.0	-3.2	10.0	9.7	9.5	0.0	1032.8	0	1	0	0	0	0	0	52	2.4	2.7	47	11	1145	45	5	6	0.0
11	22.3	2.2	0.0	-2.1	10.3	9.8	13.1	0.0	1024.0	0	1	0	0	0	0	0	258	0.8	2.4	277	9	1130	266	4	10	0.0
12	23.2	3.1	0.0	-1.8	10.6	9.8	10.1	0.0	1008.7	0	1	0	0	0	0	0	150	2.0	4.3	199	14	1700	140	7	12	0.0
13	14.6	9.3	0.8	6.4	11.1	9.9	2.8	0.0	1004.2	0	0	0	0	0	0	0	242	5.9	6.0	240	16	1635	246	9	08	0.9
14	14.2	3.6	1.3	-1.5	10.8	10.1	4.1	0.0	1006.5	0	1	0	0	0	0	0	176	3.9	4.4	181	19	1445	183	10	11	2.8
15	16.7	8.1	1.0	3.5	10.7	10.2	0.4	0.0	995.7	0	0	0	0	0	0	0	98	3.0	4.3	145	21	2230	152	9	22	0.6
16	15.7	7.5	0.1	5.7	10.9	10.2	11.4	0.0	1002.9	0	0	0	0	0	0	0	205	10.7	10.9	193	34	0400	217	16	12	0.2
17	18.2	0.8	0.0	-3.6	10.7	10.3	9.9	0.0	1013.2	0	1	0	0	0	0	0	148	1.7	2.6	187	14	1700	183	8	17	0.0
18	15.7	3.8	0.5	-0.7	10.5	10.3	1.2	0.0	1010.7	0	1	0	0	0	0	0	121	4.7	5.2	126	22	1035	146	10	13	1.2
19	18.1	10.1	0.0	8.7	10.7	10.3	7.6	0.0	1007.5	0	0	0	0	0	0	0	77	8.3	8.5	88	24	1020	86	14	13	0.0
20	16.2	5.2	0.4	1.1	11.2	10.4	4.9	0.0	1008.0	0	0	0	0	0	0	0	62	5.3	5.7	40	16	0145	44	9	00	2.0
21	14.9	8.7	0.2	8.5	11.5	10.5	2.2	0.0	1009.0	0	0	0	0	0	0	0	233	2.1	2.9	251	13	1315	259	6	13	0.7
22	17.7	4.5	9.2	-0.1	11.4	10.6	9.7	0.0	1017.7	0	1	0	0	0	0	0	213	4.2	4.8	221	17	1635	205	9	00	4.6
23	14.0	8.0	tr	7.6	11.6	10.7	0.4	0.0	1009.8	0	0	0	0	0	0	0	79	4.9	5.5	109	21	0425	110	10	04	0.0
24	15.7	7.8	0.0	4.8	11.6	10.8	4.9	0.0	1022.8	0	0	0	0	0	0	0	26	3.6	3.7	37	11	1005	39	5	09	0.0
25	17.2	3.9	0.0	-0.4	11.7	10.8	3.4	0.0	1023.6	0	1	0	0	0	0	0	84	3.2	3.3	85	11	1945	82	6	19	0.0
26	18.3	7.6	0.0	3.1	12.1	10.9	1.9	0.0	1022.9	0	0	0	0	0	0	0	75	3.1	3.3	75	11	1325	77	6	12	0.0
27	21.3	5.3	0.0	1.4	12.5	11.1	10.6	0.0	1026.5	0	0	0	0	0	0	0	225	2.0	2.6	230	10	1150	197	5	18	0.0
28	23.2	5.7	0.0	1.2	12.6	11.2	14.0	0.0	1027.8	0	0	0	0	0	0	0	117	0.8	2.1	351	10	0000	35	5	00	0.0
29	24.5	5.1	0.0	-0.2	13.0	11.4	14.3	0.0	1026.9	0	1	0	0	0	0	0	71	4.0	4.1	76	14	1545	77	8	17	0.0
30	26.1	5.4	0.0	0.1	13.3	11.5	14.3	0.0	1023.6	0	0	0	0	0	0	0	54	2.5	2.8	1	13	1540	354	5	15	0.0
Total			13.5				255.1	0.0																		13.0
Mean	18.4	4.9		0.6	11.0	10.2	8.50	0.0	1018.1								81	2.6	5.1							
Anom	+3.6	+0.2	28%	-0.4	+0.8	+0.7	150%																			
Daily mean		11.6																								
Anom		+1.9																								

Number of days with:

Air frost = 0 Ground frost = 17 Nil sun = 0
 Snow falling = 0 Snow lying = 0 Thunder = 0
 Hail=>5mm = 0 Hail<5mm or ice = 0 Fog at 09GMT = 0

Abbreviations.

Max/min = highest and lowest air temperature at 1.2m in 24 hour period ending at 09 GMT

Rain = total rainfall and melted snowfall in 24 hour period ending at 09 GMT, millimetres. (Tr = trace, <.05mm).

Grass min = Lowest overnight temperature at grass tip level.

Sun = hours of bright sunshine, measured electronically. Frost = Number of hours with air temp below 0 deg C.

pp09 = Air pressure corrected to mean sea level at 0900 GMT, millibars.

Af = Air frost. Gf = Ground frost. Sf = Snow falling. Sl = Snow lying at 09 GMT.

Th = Thunder. Ha = Hail =>5mm. Ic = Hail <5mm or ice. Fg = Fog at 09 GMT.

Vec mean = 24 hour mean wind vector, ddd = direction in degrees from true north, ff = speed in knots.

Sp = 24 hour mean wind speed in knots.

Max gust = Highest gust in 24 hours, gg = speed in knots, HHhh = Time, hours and minutes, GMT.

High hr = Highest hourly mean wind, HH = hour commencing. Rain Hrs = Duration of rain, 24 hours to 09 GMT. Excludes snow/hail.

30cm and 100 cm are earth temperatures at those depths, read at 09 GMT.

Maximum daily rain rate in mm/hr

All temperatures in degrees Celsius.

Anomaly - Departure from the 1991 to 2020 climatological average

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for APRIL 2025

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	65	1	09	10	18	11.1	5.2	67	5.4	1027.0	0	001	02	1	1	1	1	4	0	1	81812	1	1Ci81 COTRA Wind est until further notice		
2	80	0	07	11	19	11.6	3.6	58	4.9	1022.7	6	005	02	0	0	0	0	9	0	0	2	2			
3	62	1	09	10	15	13.9	6.0	59	5.8	1019.2	2	002	02	0	0	1	0	9	3	0	81358	3			
4	59	6	06	08	14	14.7	7.3	61	6.3	1019.5	3	001	05	2	2	5	0	9	7	1	81362	83367	4	2As65 3Ci75 COTRA Ac vir	
5	70	1	06	10	17	11.1	4.3	63	5.1	1020.9	2	008	02	0	0	0	0	9	0	1	81075	5	5		
6	80	1	07	08	13	10.4	3.7	63	4.9	1023.9	2	006	02	0	0	0	0	9	0	1	81081	6	6 COTRA		
7	72	0	09	05	11	10.1	4.3	67	5.1	1026.8	1	005	02	0	0	0	0	9	0	0	7	7	7		
8	60	2	05	05	09	9.5	5.3	75	5.4	1028.7	2	009	05	0	0	0	0	9	0	4	82077	8	8		
9	70	7	04	06	15	8.5	3.9	73	4.9	1029.8	1	014	01	1	1	7	5	4	/	/	87612	9	9 /Ci75		
10	80	7	06	05	11	8.3	3.2	70	4.7	1032.8	4	000	01	2	2	7	5	4	/	/	87619	10	10		
11	65	5	27	04	07	13.3	6.9	65	6.1	1024.0	7	011	02	1	1	0	0	9	0	1	85080	11	11 COTRA		
12	50	6	08	05	08	14.2	7.5	64	6.4	1008.7	7	025	05	2	2	0	0	9	0	1	86075	12	12 COTRA		
13	63	5	27	10	15	12.1	6.4	68	6.0	1004.2	1	018	03	1	1	3	1	4	3	1	83817	13	13 2Ac58 1Ci75 COTRA Cu hum		
14	72	7	18	06	11	10.5	6.1	74	5.9	1006.5	8	006	03	1	1	3	2	4	3	1	83814	83367	86072	14	14 COTRA Cu med
15	63	8	04	04	06	10.5	9.9	96	7.7	995.7	6	001	02	6	2	8	5	3	/	/	85706	88613	15	15	
16	86	3	23	14	29	10.7	3.0	59	4.8	1002.9	2	028	03	0	0	3	2	6	7	0	83831	16	16 1Ac67 Cu hum.med SW Ac edge distant E		
17	88	0	09	05	08	11.0	3.3	59	4.8	1013.2	4	000	02	0	0	0	0	9	0	0	17	17	17		
18	75	7	13	08	15	13.3	6.4	63	6.0	1010.7	8	009	03	1	1	1	1	5	7	/	81820	83357	85359	18	18 6Ac63 Cu hum
19	70	8	10	10	15	13.3	5.7	60	5.7	1007.5	2	010	21	6	2	5	5	7	7	/	85656	88358	19	19	
20	75	2	04	08	12	10.3	3.6	63	4.9	1008.0	7	001	01	1	1	1	5	4	3	1	81619	20	20 1Ac60 1Ci78 COTRA Ac edge SE		
21	56	7	27	04	07	12.2	9.2	82	7.2	1009.0	3	009	05	2	2	3	6	3	7	/	83709	87360	21	21 2Ac58	
22	75	7	25	06	11	12.1	7.2	72	6.3	1017.7	1	010	03	2	2	1	2	4	0	2	81815	87073	22	22 COTRA Cu med U/a&l/a cont	
23	62	8	07	07	13	9.1	8.5	96	6.9	1009.8	3	020	02	6	2	8	5	3	/	/	87706	88610	23	23	
24	63	7	04	05	11	10.9	6.8	76	6.1	1022.8	2	008	02	2	2	7	5	4	/	/	86616	87622	24	24	
25	61	7	12	04	09	11.6	5.7	67	5.6	1023.6	8	001	01	2	2	3	1	4	0	1	83818	86075	25	25 Cu hum	
26	59	8	08	05	08	13.1	8.4	73	6.8	1022.9	1	009	05	2	2	3	8	4	7	/	81815	83656	88357	26	26 Cu fra
27	59	2	24	03	05	15.0	8.5	65	6.8	1026.5	0	005	05	0	0	0	0	9	0	1	82080	27	27		
28	80	6	13	02	04	17.2	8.1	55	6.6	1027.8	0	004	02	2	2	0	0	9	0	1	86080	28	28 COTRA		
29	62	2	09	04	09	16.9	8.3	57	6.7	1026.9	6	004	02	0	0	0	0	9	0	1	82081	29	29		
30	61	3	12	03	06	16.9	9.8	63	7.4	1023.6	8	004	02	0	0	0	0	9	0	1	83081	30	30 COTRA		

Mean vis = 20.1 km

Mean cloud = 4.5 56%

Mean wind speed = 6.5 kn

Mean gust = 12 kn

Mean TT = 12.1 °C

Mean TdTd = 6.2 °C

Mean RH = 67.8 %

Mean r = 5.9 g/kg

Mean PPP = 1018.1 mbar

See appendix 2 below for full code details

VV = Visibility code (Code FM12-4377)

N = Total cloud amount, oktas

dd = Direction from which wind is blowing, tens of degrees true

ff = 10 minute mean wind speed, knots

gg = Highest gust in past hour, knots

TT = Air temperature at 1.2 m, deg Celsius

TdTd = Dew point temperature at 1.2 m, deg Celsius

RH = Relative humidity at 1.2 m

r = Humidity mixing ratio at 1.2 m, g/kg

PPP = Air pressure reduced to sea level, mbar

a = Characteristic of pressure tendency (Code FM12-0200)

ppp = 3 hr pressure tendency, tenths of mbar

ww = Present weather code (Code FM12-4677)

W1, W2 = Past weather code (Code FM12-4561)- covers past 3 hours.

Nh = Amount of low cloud present, oktas

Cl = Type of low cloud (Code Fm12-0513)

h = Height of low cloud (Code FM12-1600)

Cm = Type of medium cloud (Code FM12-0515)

Ch = Type of high cloud (Code FM12-0509)

8 groups. 8 = indicator for cloud detail

N = Amount of cloud, oktas

C = Type of cloud (FM12-0500)

hshs= Height of cloud (FM12-1677)

Remarks : COTRA = persistent condensation trails present

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for APRIL 2025

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	Nh	Ch	Nh	Ch	Nh	Ch	Date	Remarks
1	84	1	09	15	25	16.1	1.8	38	4.3	1023.1	7	024	02	0	0	0	0	9	0	1	81081						1	COTRA Wind est until further notice	
2	83	1	08	17	30	18.6	3.6	37	4.9	1018.4	7	025	02	0	0	1	1	7	0	1	81850						2	1Ci75 Cu hum to S	
3	80	7	09	11	20	19.0	6.8	45	6.1	1017.4	7	006	03	1	1	1	1	7	3	8	81850	83366	87270			3	COTRA Cu hum Halo 22° part Sky turbid		
4	70	2	09	12	25	22.4	6.2	35	5.9	1016.5	7	018	01	1	1	1	0	9	8	1	81369					4	2Ci75 COTRA Ac cas vir		
5	82	0	08	11	21	19.8	3.9	35	5.0	1018.7	7	012	02	0	0	0	0	9	0	0						5			
6	86	1	09	10	15	16.9	1.0	34	4.0	1022.6	8	006	02	0	0	0	0	9	0	1	81081					6	COTRA		
7	81	1	09	07	13	16.8	-0.4	31	3.6	1025.0	7	011	02	0	0	0	0	9	0	1	81081					7	COTRA		
8	80	6	07	08	14	16.6	1.1	35	4.0	1025.7	7	013	02	1	1	0	0	9	0	2	86072					8	Absent vv&cld est		
9	84	0	05	08	18	15.2	3.7	46	4.8	1028.7	8	005	02	0	0	0	0	9	0	0						9			
10	75	2	07	03	10	16.2	5.2	48	5.4	1029.1	8	025	02	0	0	0	0	9	0	1	82081					10	COTRA		
11	83	2	26	03	09	21.2	3.0	30	4.7	1019.0	8	025	02	0	0	0	0	9	0	1	82080					11	COTRA		
12	84	7	16	06	11	22.6	2.7	27	4.6	1001.4	7	035	03	2	2	1	0	9	3	8	81368	85270	86075			12	COTRA		
13	86	7	26	08	13	14.2	6.8	61	6.2	1004.4	0	002	15	6	2	2	8	6	7	2	81835	87465			13	2Sc50 1Ac62 /Ci72 Cu med jpS			
14	86	8	18	09	20	13.9	4.8	54	5.4	1003.0	7	024	02	2	2	4	4	6	1	/	83840	88461			14	2Sc50 Cu med			
15	65	7	08	05	11	15.3	10.5	73	8.0	994.6	8	008	25	8	2	7	8	4	6	/	85818				15	2Sc35 2Ac58 Cu con jp NE&S			
16	88	1	22	13	25	14.4	-1.7	33	3.4	1006.1	1	015	02	0	0	1	2	7	0	2	81850				16	1Ci75 Cu hum/med Ci edge distant NW			
17	86	5	13	02	07	15.4	4.8	49	5.3	1011.5	8	006	01	2	2	2	2	7	6	4	82856	83358			17	1Ci78 Cu med Ci edge distant W			
18	68	8	14	10	22	14.7	6.3	57	5.9	1008.6	7	021	60	6	2	3	8	6	2	/	81835	83656	88458		18	Cu hum			
19	82	5	09	14	24	17.0	3.0	39	4.7	1006.8	7	004	02	1	1	1	0	9	8	2	81360	84075			19	1Ac65 Ac cas Ac len			
20	80	8	10	08	13	14.1	6.2	59	5.9	1006.3	7	004	03	2	2	7	5	6	7	/	85642	87650	88357		20				
21	70	7	26	03	07	12.1	10.0	87	7.6	1010.8	0	010	21	6	2	5	8	3	7	/	81708	84640	86358		21	1Cu12 Cu med SW&W jpE vv40kW			
22	86	6	23	08	15	16.0	4.7	47	5.3	1016.1	8	010	15	2	2	5	4	7	4	1	82845	84656			22	3Ac68 /Ci75 Cu med jpS			
23	84	7	07	09	16	12.2	7.1	71	6.2	1014.0	2	017	02	8	2	7	8	5	/	/	82825	83635	86645		23	Cu med			
24	82	6	03	04	09	13.8	5.7	58	5.6	1022.7	8	002	01	2	2	1	1	6	7	/	81835	83357	85358		24	Cu hum			
25	72	7	07	05	08	15.8	6.0	52	5.7	1021.3	6	012	02	2	2	6	8	6	/	1	83843	85648			25	/Ci72 Cu med			
26	60	7	09	06	10	17.4	8.3	55	6.7	1022.2	6	002	05	2	2	7	8	6	/	/	82838	87656			26	Cu med Sky turbid			
27	82	5	23	04	09	19.8	6.5	42	5.9	1025.4	8	005	02	1	1	4	4	7	0	1	82850	83656			27	2Ci80 COTRA Cu hum			
28	81	1	09	04	08	22.4	6.6	36	6.0	1025.4	7	012	02	1	1	1	1	7	0	1	81856				28	1Ci78 Cu hum			
29	70	3	07	07	12	24.1	7.7	35	6.4	1023.7	8	019	02	0	0	0	0	9	0	1	83081				29	COTRA Sky turbid			
30	70	1	36	05	10	25.8	6.9	30	6.1	1020.0	7	022	02	0	0	0	0	9	0	1	81080				30	El hz lyr			

Mean vis = 38.3 km

Mean cloud = 4.3 54%

Mean wind speed = 7.8 kn

Mean gust = 15 kn

Mean TT = 17.3 °C

Mean TdTd = 5.0 °C

Mean RH = 46.0 %

Mean r = 5.5 g/kg

Mean PPP = 1016.3 mbar

See appendix 2 below for full code details

VV = Visibility code (Code FM12-4377)

N = Total cloud amount, oktas

dd = Direction from which wind is blowing, tens of degrees true

ff = 10 minute mean wind speed, knots

gg = Highest gust in past hour, knots

TT = Air temperature at 1.2 m, deg Celsius

TdTd = Dew point temperature at 1.2 m, deg Celsius

RH = Relative humidity at 1.2 m

r = Humidity mixing ratio at 1.2 m, g/kg

PPP = Air pressure reduced to sea level, mbar

a = Characteristic of pressure tendency (Code FM12-0200)

ppp = 3 hr pressure tendency, tenths of mbar

ww = Present weather code (Code FM12-4677)

W1, W2 = Past weather code (Code FM12-4561)-
covers past 3 hours.

Nh = Amount of low cloud present, oktas

Cl = Type of low cloud (Code Fm12-0513)

h = Height of low cloud (Code FM12-1600)

Cm = Type of medium cloud (Code FM12-0515)

Ch = Type of high cloud (Code FM12-0509)

8 groups. 8 = indicator for cloud detail

N = Amount of cloud, oktas

C = Type of cloud (FM12-0500)

hshs= Height of cloud (FM12-1677)

Remarks : COTRA = persistent condensation trails present

Wokingham Sunshine Hourly analysis	Hour	01-Apr	02-Apr	03-Apr	04-Apr	05-Apr	06-Apr	07-Apr	08-Apr	09-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr
2025	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.07	0.10	0.00	0.18	0.30	0.32	0.36	0.43	0.00	0.35	0.45	0.00	0.59	0.00	0.35
	6	0.51	1.00	1.00	0.39	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.64	1.00	0.00	0.98
	7	1.00	1.00	1.00	0.42	1.00	1.00	1.00	1.00	0.30	0.00	1.00	0.95	0.66	0.99	0.00	0.98
	8	1.00	1.00	1.00	0.96	1.00	1.00	1.00	1.00	0.16	0.00	1.00	1.00	0.88	0.63	0.00	0.66
	9	1.00	1.00	1.00	0.85	1.00	1.00	1.00	1.00	0.74	0.80	1.00	1.00	0.07	0.28	0.00	0.42
	10	1.00	1.00	1.00	0.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.15	0.31	0.00	0.81
	11	1.00	1.00	1.00	0.03	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.01	0.07	0.00	0.84
	12	1.00	1.00	1.00	0.64	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.89	0.03	0.01	0.00	0.99
	13	1.00	1.00	1.00	0.47	1.00	1.00	1.00	0.99	1.00	1.00	1.00	0.84	0.00	0.00	0.20	0.72
	14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	1.00	1.00	1.00	0.95	0.12	0.00	0.16	0.99
	15	1.00	1.00	0.26	1.00	1.00	1.00	1.00	0.43	1.00	1.00	1.00	0.94	0.00	0.01	0.01	0.94
	16	1.00	1.00	0.03	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.13	0.00	0.00	0.02	1.00
	17	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.20	0.02	1.00
	18	0.52	0.46	0.00	0.42	0.64	0.67	0.68	0.37	0.74	0.75	0.75	0.00	0.19	0.00	0.00	0.73
	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot		12.03	12.53	9.39	8.26	12.82	12.97	13.00	12.01	11.37	9.54	13.11	10.14	2.77	4.09	0.42	11.40

Hour	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	Mean
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.14	0.01
5	0.54	0.26	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.64	0.94	1.00	1.00	0.29
6	1.00	0.40	0.00	0.55	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.65
7	1.00	0.00	0.00	0.67	0.00	1.00	0.00	0.00	0.23	0.01	1.00	1.00	1.00	1.00	0.64
8	1.00	0.04	0.00	0.99	0.00	1.00	0.00	0.00	0.79	0.00	1.00	1.00	1.00	1.00	0.67
9	1.00	0.45	0.00	1.00	0.00	0.76	0.00	0.00	0.16	0.00	1.00	1.00	1.00	1.00	0.65
10	1.00	0.00	0.23	0.92	0.00	0.76	0.00	0.00	0.00	0.44	1.00	1.00	1.00	1.00	0.66
11	0.41	0.00	0.54	0.44	0.00	0.67	0.04	0.23	0.23	0.90	0.96	1.00	1.00	1.00	0.65
12	0.24	0.00	1.00	0.06	0.00	0.67	0.28	0.25	0.72	0.39	0.40	1.00	1.00	1.00	0.65
13	0.13	0.00	1.00	0.32	0.00	0.71	0.01	0.27	0.69	0.00	0.02	1.00	1.00	1.00	0.61
14	0.08	0.00	1.00	0.00	0.00	0.45	0.06	0.38	0.21	0.12	0.40	1.00	1.00	1.00	0.63
15	0.78	0.00	1.00	0.00	0.56	0.53	0.02	1.00	0.04	0.00	0.68	1.00	1.00	1.00	0.64
16	1.00	0.00	1.00	0.00	0.52	0.20	0.01	1.00	0.05	0.00	0.75	1.00	1.00	1.00	0.62
17	1.00	0.00	1.00	0.00	0.26	0.91	0.00	1.00	0.04	0.00	1.00	1.00	1.00	1.00	0.65
18	0.70	0.00	0.81	0.00	0.89	0.26	0.00	0.74	0.27	0.00	0.77	1.00	1.00	1.00	0.48
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.17	0.01
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot	9.86	1.15	7.58	4.94	2.22	9.67	0.41	4.85	3.42	1.86	10.64	13.99	14.25	14.31	255.03

APRIL 2025	T mn	Tx	Time	Tn	Time	RHmn	RH x	Time	RH n	Time	Tdmn	r mn	r x	Time	r n	Time	p mn	p x	Time	p n	Time	R tot
1	9.34	16.8	1327	3.3	346	68.4	97.9	409	32.4	1339	2.9	4.6	5.7	1123	3.6	1339	1025.29	1028.0	3	1022.4	1622	0
2	10.61	18.6	1414	3.5	451	64.2	93.7	504	35.7	1216	3.3	4.8	5.4	1015	4.4	1141	1021.08	1023.9	13	1018.0	1539	0
3	12.81	21.0	1310	5.9	551	63.5	86.3	552	37.6	1316	5.6	5.6	6.6	1210	4.8	415	1018.79	1020.1	2337	1017.3	1450	0
4	14.25	24.6	1347	7.3	212	59.3	87.3	236	31.3	1514	5.5	5.6	7.2	1343	4.3	1831	1018.50	1020.1	13	1016.1	1554	0
5	11.17	20.7	1340	4.3	559	56.6	89.5	615	29.7	1426	2.0	4.4	5.8	1514	2.8	1939	1020.07	1022.5	2323	1018.4	1515	0
6	9.46	18.0	1354	2.8	524	60.4	95.2	623	28.2	1649	1.2	4.1	5.5	1121	2.9	1721	1023.41	1025.8	2251	1021.9	1537	0
7	9.17	17.9	1437	1.3	557	60.3	97.5	615	29.1	1501	0.8	4.0	5.2	831	3.2	1501	1026.04	1028.0	2306	1024.6	1627	0
8	8.56	18.4	1434	0.1	531	66.1	97.1	613	29.8	1354	1.6	4.2	5.6	1011	3.5	1354	1027.06	1028.8	854	1025.1	1657	0
9	8.12	16.2	1558	0.2	529	70.4	96.3	548	43.3	1627	2.5	4.5	5.6	1337	3.6	517	1029.34	1032.8	2359	1027.1	215	0
10	9.04	16.9	1456	1.5	232	71.4	96.5	307	41.3	1623	3.6	4.8	5.8	1306	3.9	217	1030.52	1033.0	49	1026.9	2359	0
11	12.28	22.9	1520	2.2	524	64.7	98.6	625	24.0	1632	4.2	5.1	6.4	953	3.8	1643	1021.36	1027.0	4	1015.7	2353	0
12	13.90	23.8	1320	3.1	449	60.3	97.7	606	24.7	1331	4.7	5.3	7.1	1001	4.3	1331	1005.95	1015.8	4	999.8	2136	0
13	11.59	15.5	1043	5.9	2356	69.3	94.0	2359	36.9	1716	5.9	5.8	7.7	1324	3.5	1716	1004.00	1007.4	2343	999.9	50	0.8
14	9.52	14.7	1205	3.6	452	76.0	98.2	536	50.0	1206	5.0	5.4	6.4	817	4.8	1424	1004.39	1007.6	103	999.4	2357	0.1
15	11.23	17.4	1449	8.1	48	87.0	98.3	655	64.5	1419	9.0	7.3	9.5	1625	5.2	2356	995.94	999.5	0	994.4	1507	2
16	10.43	16.2	1241	4.1	2346	59.8	90.4	2348	30.0	1210	2.4	4.5	5.8	1044	3.2	1210	1004.17	1011.4	2345	996.3	22	0.2
17	9.49	18.8	1513	0.8	516	66.7	99.0	602	29.0	1633	2.5	4.5	6.0	1057	3.5	1633	1012.44	1013.5	2148	1011.2	1511	0.1
18	11.01	16.0	1054	3.8	307	70.8	93.8	317	44.0	1332	5.5	5.6	7.0	1856	4.6	1332	1009.76	1013.2	0	1006.5	2359	0
19	12.71	18.8	1410	6.4	2357	58.1	84.3	334	34.5	1256	4.2	5.2	6.5	1204	3.6	1748	1007.21	1008.7	2358	1006.0	229	0.5
20	10.08	16.9	1326	5.2	120	69.3	85.6	122	47.9	1327	4.5	5.3	6.3	1322	4.6	715	1007.44	1008.7	8	1006.1	1423	0.1
21	10.93	15.4	1615	6.7	2359	82.3	97.5	604	65.8	1715	7.9	6.6	8.2	1511	5.1	2200	1010.24	1015.2	2359	1007.2	34	0.7
22	11.06	18.5	1338	4.5	454	71.1	97.9	526	36.2	1350	5.4	5.5	6.9	858	4.2	1258	1016.16	1017.8	824	1012.9	2359	0
23	9.89	14.9	1258	7.8	2145	86.6	97.1	704	65.3	1504	7.6	6.5	7.6	1234	5.8	1605	1012.89	1019.7	2348	1007.4	500	8.2
24	10.81	16.1	1643	5.6	2351	75.3	94.6	30	47.9	1654	6.3	5.8	6.7	1158	5.0	1654	1022.20	1023.7	2333	1019.6	40	0
25	10.85	17.8	1321	3.9	154	74.6	97.8	245	43.8	1339	6.1	5.7	6.5	1215	4.8	1443	1022.56	1023.9	714	1020.7	1802	0
26	12.94	18.8	1237	7.6	418	70.7	93.0	422	46.9	1613	7.4	6.3	7.9	1237	5.5	1628	1022.74	1025.2	2359	1021.4	311	0
27	13.67	22.0	1425	5.3	458	67.4	97.4	533	35.9	1422	6.9	6.1	7.6	939	5.2	1505	1025.89	1027.2	2251	1024.7	216	0
28	15.18	23.8	1440	5.7	452	64.8	98.2	523	31.0	1350	7.4	6.3	7.8	1533	5.2	1250	1026.56	1028.0	802	1024.6	1746	0
29	15.23	25.1	1510	5.1	448	64.5	98.1	521	29.4	1234	7.4	6.3	7.9	1635	5.2	1234	1025.43	1027.4	613	1022.8	1745	0
30	16.31	26.6	1508	5.4	458	64.2	98.4	525	24.8	1703	7.9	6.6	9.1	959	5.1	1703	1022.03	1024.7	41	1018.8	1821	0

Total	Mean	Max	Min																			
	11.39	18.97	4.37	68.1	94.90	38.37	4.91	5.41	6.77	4.32	1017.31	1020.29	1014.45									12.7
	16.31	26.57	8.07	87.0	99.04	65.76	9.04	7.28	9.48	5.85	1030.52	1033.03	1027.14									
	8.12	14.72	0.14	56.6	84.26	23.99	0.75	3.95	5.24	2.85	995.94	999.51	994.42									

Wokingham Automatic Weather Station
 AWS samples taken every 0.5 seconds
 x and n refer to maximum and minimum respectively

Readings taken at Wokingham Climatological Station, Emmbrook, Berkshire
Lat 51.425 N, Long 0.853 W, NGR (SU) 798701
Altitude 45 m ASL.

Tmn = 00 to 24 GMT mean air temperature at 1.2 m, deg C
 RHmn = 00-24 GMT mean relative humidity at 1.2 m, percent
 Tdmn = 00-24 GMT mean dew point at 1.2 m, deg C
 rmn = 00-24 GMT mean humidity mixing ratio, g/kg
 pmn = 00-24 GMT mean air pressure reduced to mean sea level, mbar
 Time = hours and minutes in GMT of extreme values

Temperature and humidity are from an aspirated Vaisala HMP45 unit
 Pressure is from a Setra CS100 sensor
 Data is logged on a Campbell Scientific CR10X measurement and control system
 R tot = Rainfall from TBR, uncorrected

Explanation and definition of some of the terms used in the Wokingham Weather Reports.

Average: Generally refers to the 30 year climatological average, currently 1981 to 2010. This will be next updated in 2020. For some parameters, notably wind, the climatological average is not available, and if the word average is used in the context of wind, it refers to the average for the period for which data is held, namely 1988 to present.

For sunshine, there was a change, in July 1999, in the type of instrument used to detect sunshine amount, making the climatological average based on the old instrument of little use. In general, the new instrument produces higher values in the winter half year, and lower ones in the summer half, than the old type, due to a combination of faster reaction and higher sensitivity than the old type. The average used in this case is based on a theoretical equivalent 1981 to 2010 average, drawn from comparison with the Met Office published tables of departure from climatological average sunshine in the months since 2000 for their area 'Southern England'. Users of the Wokingham Monthly Weather reports should be aware of this, and regard anomalies for sunshine published therein as a guide only, until such time has elapsed since the introduction of the new instrument that a genuine average becomes available.

Mean: The mean of the data under discussion, often the monthly mean of daily data. The mean is obtained by summation of the individual values and dividing by the number of values. The term 'daily mean' in respect of temperature is defined as '(max + min) / 2'. A true daily 24 hour (00 to 24 GMT) mean temperature is available from the Automatic Weather Station (AWS), and is currently published on page 7 of the Wokingham Monthly Weather report, on the Wokingham Weather web site, page 1. <http://www.woksat.info/wwp1.html>

Anomaly: When a value is given for anomaly, this will have one of the following meanings:

- a): The departure of a mean from the current climatological average.
- b): The departure of a value on a particular day from the average for that day, (this need not be a climatological average).

When the word anomaly is used in respect of temperature, any values given are in °C. In respect of rainfall or sunshine, percent. In respect of wind, mph. In respect of pressure, millibars (hpa).

Categories: Reference may be made in the reports to 'categories'. Each category has a strict statistical range, as outlined below.

Temperature: The terms cold/mild are used in the winter half year, and cool/warm in the summer half. The term 'normal' is used when the individual mean (monthly, seasonal or annual) value is within 20 % of the median of all ranked values for that month/season/year.

Mild/warm: The value lies between 10 % and 30 % below the highest value in the ranked series.

Very mild/very warm: The value lies within 10 % of the highest value in the ranked series.

Cold/cool: The value lies between 10 % and 30 % above the lowest value in the ranked series.

Very cold/very cool: The value lies within 10 % of the lowest value in the ranked series.

Sunshine: The terms for sunshine are very sunny, sunny, normal, dull and very dull.

The definition of these terms follow the same rules as for temperature.

Rainfall: The terms for rainfall are very dry, dry, normal, wet and very wet.

The definition of the term 'normal' follows the same rule as for temperature and sunshine.

Wet: The value lies between 10 % and 30% of the highest value in the ranked series.

Very wet: The value lies within 10 % of the highest value in the ranked series.

Dry: The value lies between 10 % and 30 % above the lowest value in the ranked series.

Very dry: The value lies within 10 % of the lowest value in the ranked series.

Long-term: Mention may be made in the reports to the 'long-term'. The long-term record comprises a temperature/rainfall/sunshine data series compiled from records of various weather stations in the Wokingham area in the years prior to the establishment of the weather station at Emmbrook in 1976 together with data from this station.

In the case of monthly max, min and mean temperature and of rainfall total the series starts in 1882. For temperature extremes, the highest max and lowest min go back to 1904, and lowest max and highest min to 1913.

Rank: The word rank refers to the position of a value for a particular month/season/year in the ranked series, and may be expressed relative to either the highest or lowest value in the series. The central value in the ranked series is known as the **median**. This value may be different from the average of the whole series if the population is skewed. It can also be different from the climatological average which only refers to a 30 year period.

Month: Calendar month.

Season: Spring, March to May.

Summer, June to August

Autumn, September to November

Winter, December to February.

When discussing 'winter', if a single year is given this refers to the year in which the January/February fall.

Annual or Year: The calendar year, 1st January to 31st December.

The climatological day: runs from 0900 to 0900 GMT. The max temperature and rainfall read at 0900 hours are attributed to the previous day (thrown back), as is the duration of measurable rain. The min temperature and grass min read at 0900 hours are attributed to the day of reading. Pressure read at 0900 GMT, and the monthly mean pressure is the mean of the 0900 GMT readings. Sunshine data, wind data, rainfall rate data and 24 hour data from the AWS use the normal 00-24 GMT day.

Frost: An air frost day is recorded when the minimum temperature read at 0900 GMT on that day is -0.1°C or below. A ground frost day is recorded when the grass minimum temperature read at 0900 GMT on that day is -0.1°C or lower.

Duration of air frost is defined as the number of minutes that the AWS one minute average temperature is below 0.0°C , and the day runs from midnight to midnight.

Snow: A day with snow falling is triggered if snow falls at any time in the 24 hours from midnight on that day. A day with snow lying is entered if there is at least 50% snow cover at the 0900 GMT observation.

Snow depth is the depth of undrifted snow. Snow that collects in the raingauge funnel is melted and the amount recorded as rainfall.

Hail: A day of hail is recorded if hailstones 5 mm or more in diameter are observed or recorded on the hail pad in a 24 hour period starting at midnight.

A day of small hail is recorded if hailstones less than 5 mm diameter are observed or recorded in a 24 hour period starting at midnight. The term small hail also includes various other types of ice meteor such as ice pellets, snow grains and some types of snow pellets.

Fog: A day with fog is recorded if the horizontal visibility at 0900 GMT is below 1000 m.

Thunder: A day of thunder is recorded if thunder is heard in the 24 hour period from midnight on that day. The appearance of lightning without thunder being heard does not qualify as a thunder day.

Trace of rainfall: A trace of rain, entered as 'tr' in the daily log, is recorded if rain is observed to fall but is of insufficient quantity to collect in the raingauge, or if the amount of rain in the gauge is less than 0.05 mm.

Dry spell: A dry spell is defined as a period of 5 or more consecutive dry days.

Dry day: A dry day is one with less than 0.2 mm of rainfall.

Rain day: A rain day is one with 0.2 mm or more of rainfall.

Wet day: A wet day is one having 1.0 mm or more of rainfall.

Appendix 2.

Explanation and decode for code figures used in the Wokingham 0900 and 1500 GMT observations

VV : Visibility.

Code figures 00 to 50 are in km and tenths e.g. 01 = 0.1 km = 100 m, 33 = 3.3 km, 50 = 5.0 km

Code figures 60 to 80. Subtract 50 to obtain visibility in km. e.g. 56 = 6 km, 65 = 15 km, 77 = 27 km.

Code figures 81 to 89. Subtract 50 and add 5 for every one above 80. e.g. 83 = 45 km, 86 = 60 km.

Code figure 89 = visibility above 70 km.

N : Total cloud amount in okta (eighths of sky covered). 9 = sky obscured (e.g. by fog or snow)

dd : Wind direction in tens of degrees from true north. Wind is measured at a height of 10 m, and the direction is the mean over a period of 10 minutes ending at the observation time.

ff : Wind speed in knots, measured at 10 m, and is the mean over a period of 10 minutes ending at observation time.

gg : Wind gust in knots at 10 m. The highest gust in the 60 minutes up to observation time.

TT : Air temperature at 1.2m, degrees C and tenths.

TdTd : Dew point temperature at 1.2m, degrees C and tenths.

RH : Relative humidity at 1.2m, %.

r : Humidity mixing ratio (amount of water vapour per kg of air), grams and tenths.

PPP : Air pressure reduced to MSL, millibars and tenths.

a : Characteristic of pressure tendency during the past 3 hours.

Code figures 0 to 3, pressure higher than 3 hours ago, 5 to 8, pressure lower than 3 hours ago

Code figure 0 = Increasing then decreasing, pressure the same as or higher than 3 hours ago

1 = Increasing then steady or increasing more slowly

2 = Increasing steadily or unsteadily

3 = Decreasing or steady then increasing, or increasing then increasing more rapidly

4 = Steady, pressure the same as 3 hours ago

5 = Decreasing then increasing, pressure lower than 3 hours ago

6 = Decreasing then steady or decreasing more slowly

7 = Decreasing steadily or unsteadily

8 = Steady or increasing then decreasing, or decreasing then decreasing more rapidly

ppp : 3 hour pressure tendency in tenths of a millibar

ww : Present weather code figures, 00 to 99.

Present weather decode:

00 = Cloud development not observed or not observable

01 = Clouds generally dissolving or becoming less developed

02 = State of sky on the whole unchanged

03 = Clouds generally increasing or becoming more developed

04 = Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes.

05 = Haze, visibility reduced by extremely small dry particles (RH less than appx. 95 %)

06 = Widespread dust in suspension, not raised by the wind near the station at the time of the observation

07 = Dust or sand raised by the wind at or near the station at the time of the observation, but no well-developed dust whirls or sand whirls, and no duststorm or sandstorm seen: In marine environments, blowing spray at the station.

08 = Well-developed dust or sand whirls seen at or near the station during the preceding hour or at the time of the observation, but no duststorm or sandstorm.

09 = Duststorm or sandstorm within sight at the time of the observation, or at the station during the preceding hour

10 = Mist
11 = Patches of shallow fog not deeper than 2 metres on land
12 = More or less continuous shallow fog not deeper than 2 metres on land
13 = Lightning visible, no thunder heard
14 = Precipitation within sight, not reaching the ground
15 = Precipitation within sight, reaching the ground more than 5 km from the station
16 = Precipitation within sight, reaching the ground, near to but not at the station
17 = Thunderstorm, but no precipitation at the time of the observation
18 = Squalls at or within sight of the station at the time of the observation or during the preceding hour
19 = Funnel cloud(s) at or within sight of the station at the time of the observation or during the preceding hour

20 = Drizzle (not freezing) at the station during the preceding hour but not at the time of the observation
21 = Rain (not freezing) at the station during the preceding hour but not at the time of the observation
22 = Snow at the station during the preceding hour but not at the time of the observation
23 = Rain and snow or ice pellets at the station during the preceding hour but not at the time of the observation
24 = Freezing drizzle or freezing rain at the station during the preceding hour but not at the time of the observation
25 = Shower(s) of rain at the station during the preceding hour but not at the time of the observation
26 = Shower(s) of snow or rain and snow at the station during the preceding hour but not at the time of the observation
27 = Shower(s) of hail or rain and hail at the station during the preceding hour but not at the time of the observation
28 = Fog or ice fog at the station during the preceding hour but not at the time of the observation
29 = Thunderstorm, with or without precipitation at the station during the preceding hour but not at the time of the observation

30 = Slight or moderate duststorm or sandstorm has decreased during the preceding hour
31 = Slight or moderate duststorm or sandstorm with no appreciable change during the past hour
32 = Slight or moderate duststorm or sandstorm has begun or increased during the past hour
33 = Severe duststorm or sandstorm has decreased during the preceding hour
34 = Severe duststorm or sandstorm with no appreciable change during the past hour
35 = Severe duststorm or sandstorm has begun or increased during the past hour
36 = Slight or moderate drifting snow generally below eye level
37 = Heavy drifting snow generally below eye level
38 = Slight or moderate blowing snow generally above eye level
39 = Heavy blowing snow generally above eye level

40 = Fog or ice fog at a distance at the time of the observation, but not at the station during the preceding hour, the fog extending to a level above that of the observer.
41 = Fog or ice fog in patches
42 = Fog or ice fog, sky visible has become thinner during the past hour
43 = Fog or ice fog, sky invisible has become thinner during the past hour
44 = Fog or ice fog, sky visible no appreciable change during the past hour
45 = Fog or ice fog, sky invisible no appreciable change during the past hour
46 = Fog or ice fog, sky visible has begun or become thicker during the past hour
47 = Fog or ice fog, sky invisible has begun or become thicker during the past hour
48 = Fog, depositing rime, sky visible
49 = Fog depositing rime, sky invisible

50 = Drizzle, not freezing, intermittent slight at time of observation
51 = Drizzle, not freezing, continuous slight at time of observation
52 = Drizzle, not freezing, intermittent moderate at time of observation
53 = Drizzle, not freezing, continuous moderate at time of observation
54 = Drizzle, not freezing, intermittent heavy at time of observation
55 = Drizzle, not freezing, continuous heavy at time of observation
56 = Drizzle, freezing, slight
57 = Drizzle, freezing, moderate or heavy (dense)
58 = Drizzle and rain, slight
59 = Drizzle and rain, moderate or heavy

60 = Rain, not freezing, intermittent slight at time of observation
61 = Rain, not freezing, continuous slight at time of observation
62 = Rain, not freezing, intermittent moderate at time of observation
63 = Rain, not freezing, continuous moderate at time of observation
64 = Rain, not freezing, intermittent heavy at time of observation
65 = Rain, not freezing, continuous heavy at time of observation
66 = Rain, freezing, slight
67 = Rain, freezing, moderate or heavy
68 = Rain or drizzle and snow, slight
69 = Rain or drizzle and snow, moderate or heavy

70 = Intermittent fall of snowflakes slight at time of observation
71 = Continuous fall of snowflakes slight at time of observation
72 = Intermittent fall of snowflakes moderate at time of observation
73 = Continuous fall of snowflakes moderate at time of observation
74 = Intermittent fall of snowflakes heavy at time of observation
75 = Continuous fall of snowflakes heavy at time of observation
76 = Diamond dust (with or without fog)
77 = Snow grains (with or without fog)
78 = Isolated star-like snow crystals (with or without fog)
79 = Ice pellets

80 = Rain shower(s), slight
81 = Rain shower(s), moderate or heavy
82 = Rain shower(s), violent
83 = Shower(s) of rain and snow mixed, slight
84 = Shower(s) of rain and snow mixed, moderate or heavy
85 = Snow shower(s), slight
86 = Snow shower(s), moderate or heavy
87 = Shower(s) of snow pellets or small hail, with or without rain or rain and snow mixed, slight
88 = Shower(s) of snow pellets or small hail, with or without rain or rain and snow mixed, moderate or heavy
89 = Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder, slight
90 = Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder, moderate or heavy

91 = Slight rain at time of observation, thunderstorm during the past hour but not at time of observation
92 = Moderate or heavy rain at time of observation, thunderstorm during the past hour but not at time of observation
93 = Slight snow, or rain and snow mixed, or hail at time of observation, thunderstorm during the past hour but not at time of observation
94 = Moderate or heavy snow, or rain and snow mixed, or hail at time of observation, thunderstorm during the past hour but not at time of observation
95 = Thunderstorm, slight or moderate, without hail but with rain and or snow at time of observation
96 = Thunderstorm, slight or moderate, with hail at time of observation
97 = Thunderstorm, heavy, without hail but with rain and or snow at time of observation
98 = Thunderstorm combined with duststorm or sandstorm at time of observation
99 = Thunderstorm, heavy, with hail at time of observation

Hail includes large hail, small hail and snow pellets.

W1, W2 : Past weather (for 0900 and 1500 GMT observations, the period covered is 3 hours)

Code figures:

- 0 = Cloud covering half or less of the sky throughout the period
- 1 = Cloud covering more than half the sky during only part of the period
- 2 = Cloud covering more than half the sky throughout the period
- 3 = Sandstorm, duststorm or blowing snow
- 4 = Fog or ice fog or thick haze (visibility less than 1000 m)
- 5 = Drizzle
- 6 = Rain
- 7 = Snow or rain and snow mixed
- 8 = Shower(s)
- 9 = Thunderstorm(s) with or without precipitation

Nh : Amount of low cloud, or medium cloud if no low cloud present, okta

Cl : Type of low cloud

- 0 = No low cloud
- 1 = Cumulus with little vertical extent and seemingly flattened, or ragged Cumulus other than bad weather, or both
- 2 = Cumulus of moderate or strong vertical extent, either accompanied or not by other Cumulus or Stratocumulus all having their bases at the same level
- 3 = Cumulonimbus whose summits, at least partially, lack sharp outline, but are neither clearly fibrous (cirriform), nor in the form of an anvil; Cumulus, Stratocumulus or Stratus may also be present
- 4 = Stratocumulus formed by the spreading out of Cumulus; Cumulus may also be present
- 6 = Stratus in a more or less continuous sheet or layer, or ragged shreds, or both, but no Stratus fractus of bad weather
- 7 = Stratus fractus of bad weather or Cumulus fractus of bad weather or both (pannus), usually below Altostratus or Nimbostratus
- 8 = Cumulus and Stratocumulus other than that formed by the spreading out of Cumulus, the bases of the Cumulus and Stratocumulus are not at the same level.
- 9 = Cumulonimbus, the upper part of which is clearly fibrous (cirriform), often in the form of an anvil, either accompanied or not by any other type(s) of low cloud
- / = Types of low cloud invisible due to darkness, fog, blowing dust or sand or other similar phenomena.

'Bad weather' denotes the conditions which generally exist during precipitation and a short time before and after.

Cm : Type of medium cloud.

- 0 = No medium cloud.
- 1 = Altostratus, the greater part of which is semi-transparent; through this part the sun or moon may be weakly visible, as through ground glass
- 2 = Altostratus, the greater part of which is sufficiently dense to hide the sun or moon, or Nimbostratus
- 3 = Altocumulus, the greater part of which is semi-transparent; the various elements of the cloud change only slowly and are all at a single level
- 4 = Altocumulus in patches (often in the form of almonds or fishes), the greater part of which is semi-transparent ; the clouds occur at one or more levels and the elements are continually changing in appearance
- 5 = Altocumulus in bands semi-transparent, of Altocumulus in one or more fairly continuous layers (semi-transparent or opaque), progressively invading the sky; these Altocumulus clouds generally thicken as a whole
- 6 = Altocumulus resulting from the spreading out of Cumulus (or Cumulonimbus)
- 7 = Altocumulus in two or more layers, usually opaque in places, and not progressively invading the sky; or opaque layer of Altocumulus not progressively invading the sky; or Altocumulus together with Altostratus or Nimbostratus
- 8 = Altocumulus with sproutings in the form of small towers or battlements, or Altocumulus having the appearance of cumuliform tufts
- 9 = Altocumulus of a chaotic sky, generally at several levels
- / = Types of medium cloud invisible owing to darkness, fog, blowing dust or sand or other similar phenomena, or more often because of the presence of a continuous layer of lower clouds.

Ch : Type of high cloud

0 = No high cloud

1 = Cirrus in the form of filaments, strands or hooks, not progressively invading the sky.

2 = Dense cirrus, in patches or entangled sheaves, which usually do not increase and sometimes seem to be the remains of the upper part of a Cumulonimbus; or Cirrus with sproutings in the form of small turrets or battlements, or Cirrus having the appearance of cumuliform tufts

3 = Dense Cirrus, often in the form of an anvil, being the remains of the upper part of Cumulonimbus, or where the rest of the Cumulonimbus is below the horizon

4 = Cirrus in the form of hooks or filaments, or both, progressively invading the sky; they generally become denser as a whole

5 = Cirrus (often in bands converging towards one or two opposite points on the horizon) and Cirrostratus, or Cirrostratus alone; in either case they are progressively invading the sky, and generally growing denser as a whole, but the continuous veil does not reach 45 degrees above the horizon.

6 = Cirrus (often in bands converging towards one or two opposite points on the horizon) and Cirrostratus, or Cirrostratus alone; in either case they are progressively invading the sky, and generally growing denser as a whole; the continuous veil extends more than 45 degrees above the horizon, without the sky being totally covered

7 = Veil of Cirrostratus covering the celestial dome.

8 = Cirrostratus not progressively invading the sky and not completely covering the celestial dome

9 = Cirrocumulus alone, or accompanied by Cirrus or Cirrostratus, or both, but Cirrocumulus is predominant.

/ = Types of high cloud invisible owing to darkness, fog, blowing dust or sand or other similar phenomena, or more often because of the presence of a continuous layer of lower clouds.

8 Groups

N = Amount of cloud reported by C, okta.

C = Type of cloud

0 = Cirrus (Ci)

1 = Cirrocumulus (Cc)

2 = Cirrostratus (Cs)

3 = Altocumulus (Ac)

4 = Altostratus (As)

5 = Nimbostratus (Ns)

6 = Stratocumulus (Sc)

7 = Stratus (St)

8 = Cumulus (Cu)

9 = Cumulonimbus (Cb)

/ = Cloud type not visible owing to darkness, fog, duststorm, or other analogous phenomena.

hshs = Height of cloud above station level reported by type C

00 to 50 = Height in hundreds of feet

51 to 55 Not used

56 to 80 = Subtract 50 to obtain cloud height in thousands of feet

81 to 88 = Height of cloud between 35000 and 70000 ft in 5000 ft steps.