

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

JUNE 2026

Temperature (°C)		Anomaly		Rank in the past 145 years	
Mean maximum	24.3	+3.3		4th highest	
Mean minimum	13.9	+3.2		* Highest *	
Daily mean	19.1	+3.3		* Highest *	
Highest maximum	34.8		on 24th	Lowest maximum	16.9 on 6th
Highest minimum	20.7		on 26th	Lowest minimum	7.9 on 9th
Mean grass minimum	11.4	+3.6		Lowest grass minimum	3.7 on 9th
Mean earth @30 cm	18.9	+1.9		Earth @100 cm	16.6 +1.7
Frost duration (hrs)	0.0			Rain duration (hrs)	26.0
Rainfall total (mm)	46.1	91 %		71st highest	
Highest daily fall	21.1		on 1st	Highest rate mm/hr	55 on 4th
Number of: Dry days (<0.2mm)	17	Wet days (>0.9mm)	11	days ≥5mm	1
Sunshine total (hrs) 231.3		Daily mean 7.71	119 %	Sunniest day	15.5 on 25th
N° days with: Air frost 0		Ground frost 0		Snow falling	0
Thunder 3		Hail ≥5mm 0		Snow lying	0
		Small hail/ice 0		Fog @09	0
				Nil sun	0
Pressure MSL : Mean @09 GMT, mbar 1016.1		-0.7	Highest 1027.3	on 29th	Lowest 995.0 on 4th
Relative humidity : Mean (%) 70.2		Lowest 21	on 26th	Water vapour (g/kg), mean at 09 and 15 GMT	9.4, 9.0
Overall mean wind speed (mph) 7.9		Windiest day 12.7	on 4th	Max gust 40	on 3rd
Wind direction (days) N 1 NE 1 E 2 SE 2 S 2 SW 18 W 3 NW 1					
Least windy day (mph) 4.4		on 14th	Calm; less than 0.5 mph (minutes)	n/a	

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

Notes:

Rainfall Below, and Sunshine Above, Average and a Record Breaking Heatwave.

Temperature: This has been a remarkable June, because of the unprecedented heatwave from the 21st to the 27th, when many existing June records were broken. Those 7 days saw anomalies for daily maximum temperature between +10° and +15° each day. Nights were uncomfortably hot, with minima between 18° and 21° each night from the 23rd to 27th. However, despite the heatwave, the mean maximum ranks only 4th highest in 145 years, after 1976, 2025 and 2023, the record holder, 0.9° higher than this June's. The mean minimum is a new record, 1.0° above the previous highest in 2025, and the resulting daily mean is also a new record, 0.4° above the previous highest in 2025. The highest max is a remarkable 7.6° above the median and is a new record, 0.2° above the previous June highest in 1976. The lowest max is 2.0° above its median and ranks 7th highest in 114 years. The highest min in 5.6° above the median and is a new record, 1.9° above the previous June highest in 2005, and also beating the previous annual highest of 20.2° set in July 2022. The lowest min is 3.2° above the median and 3rd highest in 123 years. The mean grass min is a new record high, 1.6° above the previous highest in the past 47 years, set in 2025. Earth temperature at both 30cm and 1 m depth are new record highs, as are the highest daily value at both depths. Anomalies for daily max ranged from -2.5° on 6th to +14.1° on 24th. Anomalies for daily min ranged from -2.0° on 9th to +9.6° on 26th. **Rainfall:** This has been a June with only slightly below average rainfall, though most (96%) of the total fell before the 12th, 16 of the remaining 19 days being dry. There were 2 dry spells, 7 days to the 21st and 6 days to the 28th. The month's highest daily fall, 21.1 mm on the 1st, while not a particularly large amount, is the highest daily fall since the 26th September 2024. Much of the rainfall in the first 8 days was showery, with daily maximum rain rates above 20 mm/hr on the 1st to 4th and the 8th, the rate reaching the violent category on the 4th when 55 mm/hr was recorded. Thunder was heard on the 2nd, 22nd and 23rd, and there was a spectacular lightning display overnight on the 23rd. There was no hail this month. Estimated soil moisture deficit shows that unirrigated shallow rooted plants would suffer stress up to the 14th then severe stress. **Sunshine:** This has been a sunny month overall with 19% more sunshine than average. The total is, however, lowest for June since 2021. Sunshine was poor early in the month, but picked up after the 8th, and it was very sunny after the 20th. The 6 day period to the 26th was outstanding, with a total of 83.2 hours, a mean of 13.9 hours per day. Days that had over 80% of the maximum were the 13th, 19th and 24th to 26th, and those having <20% of the maximum were the 3rd, 6th, 7th and 11th. Overall there were 4 days with <3 hours, 16 with =>6 hours and 8 with =>12 hours. **Wind:** The mean wind speed of 7.9 mph is 1.3 mph above average. The windiest day was the 4th, mean 12.7 mph, but the month's highest gust was 40 mph on the 3rd, 4 mph above average. Daily mean winds were fresh on the 3rd, 4th, 6th, 9th, 10th and 12th. otherwise were mainly moderate. Daily mean direction was generally between S and W, except between N and E on 21st, 22nd, 24th and 25th, between E and S on 15th and 23rd, and between W and N on 13th and 14th.

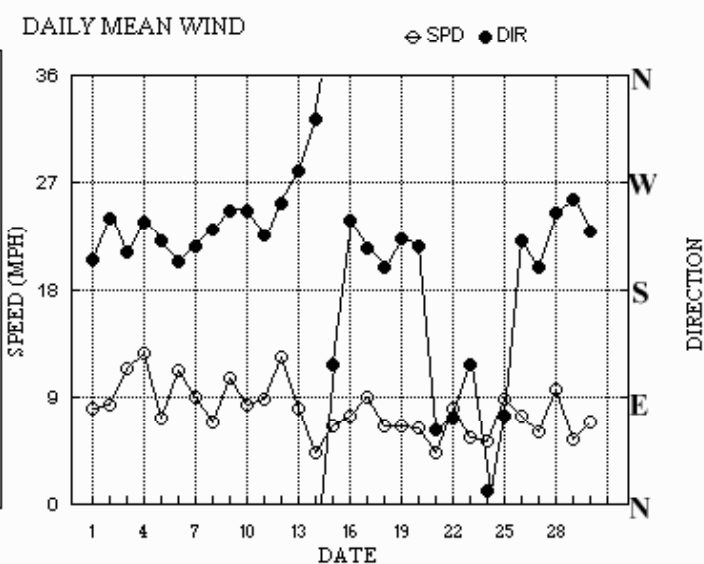
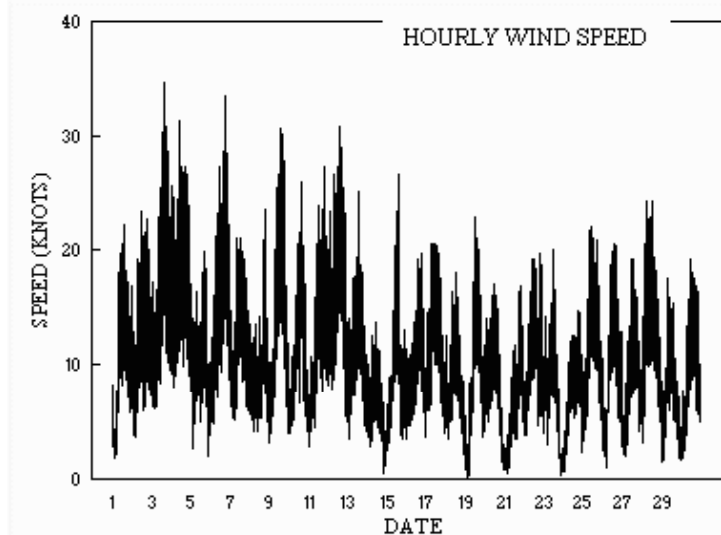
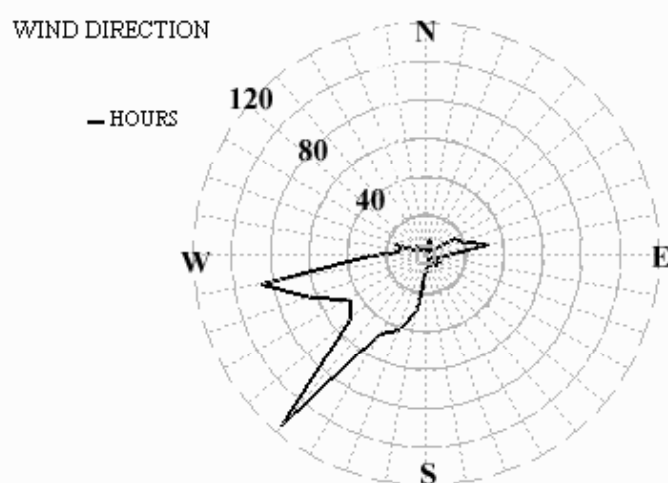
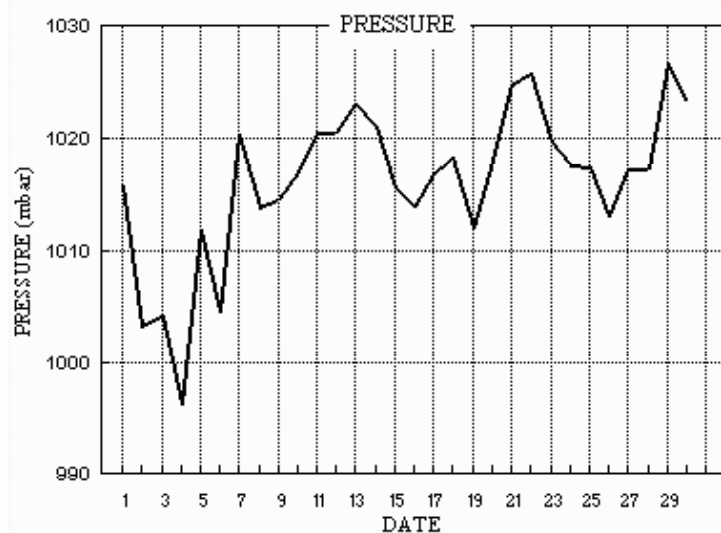
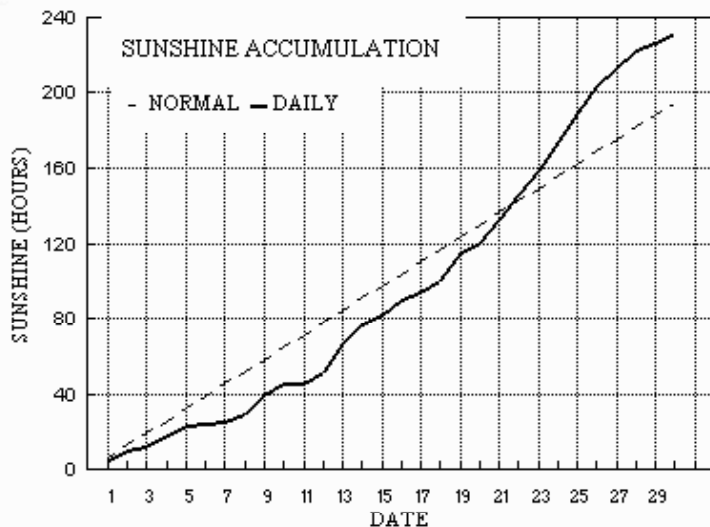
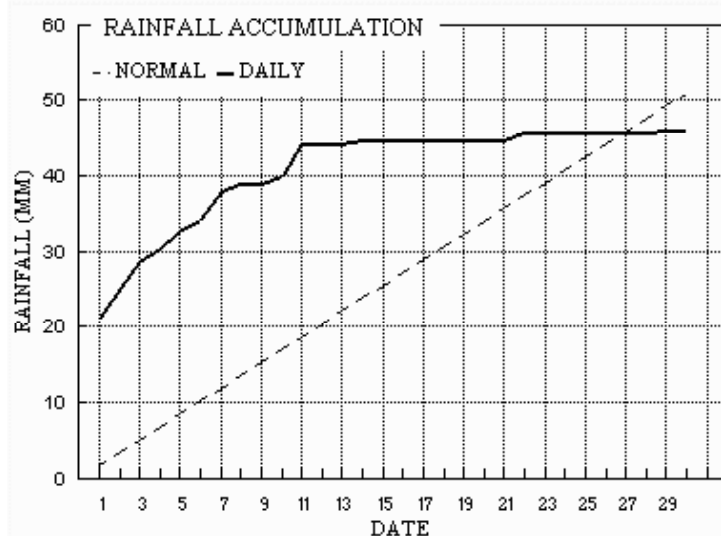
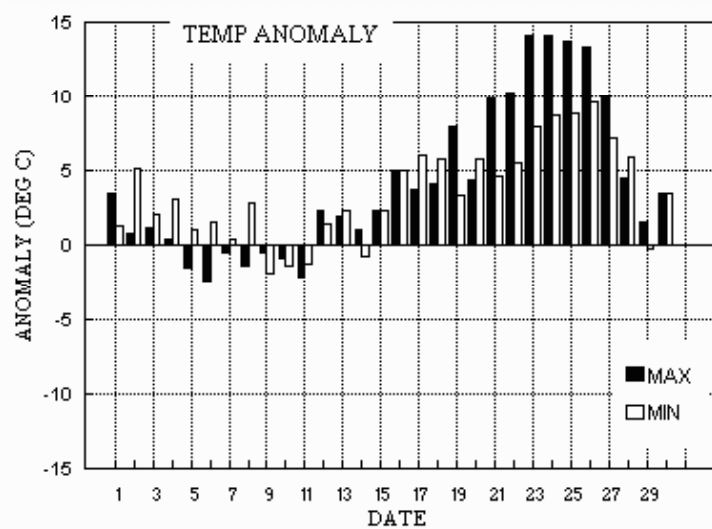
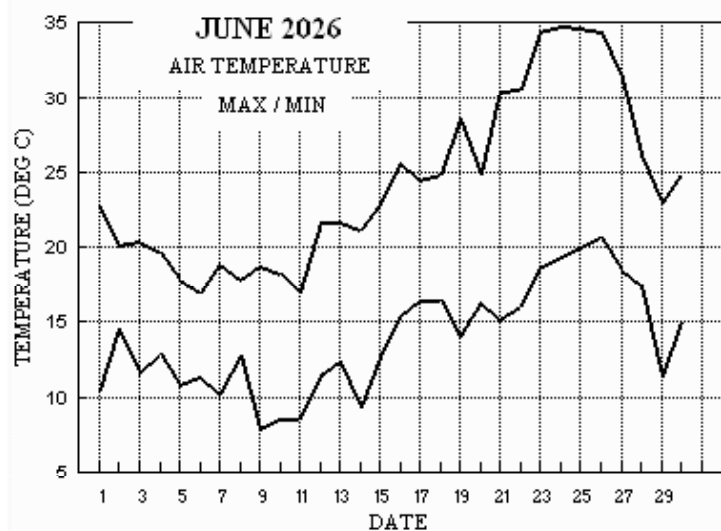
Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

From the 1 st to the 10 th				From the 11 th to the 20 th				From the 21 st to the 30 th			
-0.0°	+1.4°	236%	70%	+3.0°	+3.0°	27%	116%	+9.5°	+6.1°	8%	170%

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham climatological graphs for June 2026



Month: JUNE 2026

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	HH	Rain hrs
1	22.7	10.5	21.1	6.7	18.1	15.7	4.9	0.0	1015.7	0	0	0	0	205	6.8	6.9	217	22	1345	212	10	09	8.2
2	20.1	14.5	4.1	14.5	18.0	15.8	5.0	0.0	1003.3	0	0	0	1	240	6.4	7.2	232	24	1245	262	11	17	0.7
3	20.4	11.6	3.4	9.6	17.8	15.9	2.1	0.0	1004.2	0	0	0	0	211	9.6	9.8	221	35	1555	220	15	16	1.6
4	19.6	12.9	1.9	11.4	17.4	15.9	6.2	0.0	996.1	0	0	0	0	236	10.6	11.0	233	31	0950	243	14	12	1.3
5	17.8	10.8	2.2	7.8	17.4	15.9	5.7	0.0	1011.9	0	0	0	0	220	5.5	6.3	194	20	1705	214	9	15	3.7
6	16.9	11.4	1.5	9.0	17.1	15.8	0.8	0.0	1004.5	0	0	0	0	203	7.0	9.7	245	34	1835	242	16	18	1.4
7	18.8	10.2	3.8	7.7	16.7	15.8	1.0	0.0	1020.3	0	0	0	0	216	7.6	7.8	217	21	0910	226	11	09	1.8
8	17.9	12.7	1.0	12.4	16.9	15.7	4.0	0.0	1013.9	0	0	0	0	230	5.0	6.1	266	24	1900	261	11	18	0.9
9	18.7	7.9	0.1	3.7	16.5	15.7	10.3	0.0	1014.6	0	0	0	0	246	8.9	9.2	254	31	1500	256	14	16	0.2
10	18.2	8.5	1.0	4.5	16.7	15.7	5.5	0.0	1017.0	0	0	0	0	247	6.9	7.2	282	26	1555	265	13	16	1.9
11	17.0	8.5	4.1	4.9	16.7	15.6	0.3	0.0	1020.6	0	0	0	0	226	7.2	7.7	252	27	1935	254	12	19	2.6
12	21.7	11.5	0.0	14.9	16.4	15.6	6.5	0.0	1020.5	0	0	0	0	253	10.6	10.7	257	31	1530	255	15	13	0.0
13	21.6	12.3	0.0	7.7	16.8	15.6	15.1	0.0	1023.0	0	0	0	0	279	6.7	7.0	276	25	1410	279	10	13	0.0
14	21.2	9.3	0.5	6.0	17.3	15.6	9.4	0.0	1021.0	0	0	0	0	322	3.1	3.8	11	14	1005	17	6	16	0.4
15	22.8	12.6	tr	13.1	17.7	15.7	5.0	0.0	1015.6	0	0	0	0	117	3.9	5.8	122	27	1415	120	9	13	0.0
16	25.6	15.4	tr	14.3	18.1	15.9	8.3	0.0	1013.9	0	0	0	0	239	6.1	6.5	223	20	1805	224	10	16	0.0
17	24.4	16.4	0.0	15.0	18.8	16.1	4.2	0.0	1016.8	0	0	0	0	215	7.8	7.8	210	21	0755	213	12	08	0.0
18	24.9	16.4	0.0	13.8	19.0	16.3	6.4	0.0	1018.3	0	0	0	0	199	5.7	5.7	211	18	1255	195	8	09	0.0
19	28.5	14.0	0.0	11.2	19.0	16.5	14.8	0.0	1012.0	0	0	0	0	223	5.7	5.8	242	23	1340	219	11	16	0.0
20	24.9	16.3	0.0	13.2	19.6	16.7	5.2	0.0	1018.0	0	0	0	0	216	5.5	5.6	211	17	1150	204	9	10	0.0
21	30.4	15.2	0.0	12.0	19.6	16.9	12.3	0.0	1024.7	0	0	0	1	63	1.9	3.8	93	17	2125	80	8	19	0.0
22	30.6	16.1	1.2	12.7	20.3	17.1	12.6	0.0	1025.8	0	0	0	1	72	6.8	7.0	100	20	2055	86	10	13	1.0
23	34.4	18.6	0.0	17.8	21.0	17.3	12.9	0.0	1019.7	0	0	0	0	117	3.9	5.0	118	20	1140	126	8	11	0.0
24	34.8	19.4	0.0	16.1	21.5	17.6	15.4	0.0	1017.6	0	0	0	0	12	4.1	4.6	37	15	1925	41	8	19	0.0
25	34.7	20.0	0.0	16.6	22.3	17.9	15.5	0.0	1017.4	0	0	0	0	74	7.6	7.7	84	22	1105	81	11	10	0.0
26	34.4	20.7	tr	17.6	22.8	18.2	14.5	0.0	1013.0	0	0	0	0	221	4.9	6.4	224	21	1410	223	11	15	0.1
27	31.4	18.5	0.0	15.5	22.8	18.6	9.7	0.0	1017.3	0	0	0	0	199	5.1	5.4	205	19	1125	189	9	13	0.0
28	26.1	17.4	tr	14.0	22.5	18.8	8.5	0.0	1017.3	0	0	0	0	244	7.7	8.4	228	24	0635	258	11	11	0.1
29	22.9	11.3	0.2	6.2	21.7	19.0	4.4	0.0	1026.6	0	0	0	0	255	4.7	4.8	268	18	0955	260	8	08	0.1
30	24.8	15.0	0.0	13.4	21.3	19.0	4.8	0.0	1023.3	0	0	0	0	228	5.7	6.0	229	19	1345	219	9	16	0.0
Total			46.1				231.3	0.0															26.0
Mean	24.3	13.9		11.4	18.9	16.6	7.71	0.0	1016.1					226	4.2	6.9							
Anom	+3.3	+3.2	91%	+3.6	+1.9	+1.7	119%			-0.7													
Daily mean		19.1																					
Anom		+3.3																					
Number of days with:																							
Air frost = 0				Ground frost = 0			Nil sun = 0																
Snow falling = 0				Snow lying = 0			Thunder = 3																
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 JUNE 2026

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NCh	shs	NCh	shs	Date	Remarks
1	81	7	21	08	16	18.1	10.7	62	8.0	1015.7	7	011	02	2	2	3	5	5	3	2	83625	85361					1	3Ci72 COTRA
2	82	7	26	08	15	16.3	12.8	80	9.3	1003.3	1	006	03	6	2	5	8	4	0	2	85818	86070					2	1Sc40 COTRA Cu med
3	82	8	20	09	21	14.9	11.1	78	8.3	1004.2	8	026	60	2	2	6	5	4	7	/	86615	87357					3	/As65
4	68	7	23	14	22	15.9	9.8	67	7.6	996.1	2	007	15	2	2	5	2	5	6	/	85822	83357					4	2Ac62 Cu med jpNW
5	84	7	25	08	15	15.6	6.6	55	6.0	1011.9	2	014	03	1	1	7	8	6	/	/	82835	84640	87650				5	Cu hum
6	58	6	18	07	14	13.2	12.7	97	9.2	1004.5	6	014	21	6	5	6	8	3	3	/	83706	83635					6	2Cu09 2Ac62 Cu fra.hum
7	80	7	23	07	15	16.7	9.4	62	7.2	1020.3	1	007	02	2	2	7	8	5	/	8	83825	87635					7	/Cs75 COTRA Cu hum
8	58	8	24	06	12	12.8	12.0	95	8.7	1013.9	5	001	61	6	2	4	5	3	2	/	82706	83640	88558				8	
9	65	6	24	11	19	14.8	7.6	62	6.5	1014.6	7	004	15	2	2	6	9	5	/	/	81920	83825					9	4Sc56 Cb&jpNW
10	70	7	25	08	14	13.5	7.9	69	6.6	1017.0	1	009	60	6	2	4	8	4	7	/	82816	83645	87358				10	Cu hum
11	56	8	22	07	14	11.9	10.5	91	7.8	1020.6	0	002	63	6	2	6	5	3	2	/	82706	86612	88550				11	
12	86	8	25	10	24	16.8	13.5	81	9.5	1020.5	0	010	02	2	2	8	5	4	/	/	87611	88615					12	
13	82	3	29	07	16	16.3	7.5	56	6.4	1023.0	1	007	01	1	1	2	1	6	0	2	82830						13	2Ci80 Cu hum
14	84	6	34	05	10	16.5	8.5	59	6.8	1021.0	8	008	02	2	2	1	1	6	4	1	81835	86080					14	1Ac66 COTRA Cu hum
15	80	7	09	07	12	16.8	11.3	70	8.3	1015.6	8	012	02	6	2	7	0	9	8	/	82359	87360					15	Ac cas
16	82	5	29	04	11	20.1	13.3	65	9.5	1013.9	1	003	02	2	2	1	1	5	8	1	81825	83360					16	3Ci78 COTRA Cu hum
17	86	5	21	11	19	20.6	14.9	70	10.5	1016.8	1	003	01	2	2	5	5	4	4	0	85614						17	1Ac62
18	80	7	18	07	12	19.1	15.6	80	10.9	1018.3	0	002	01	2	2	7	5	4	/	/	87613						18	/Sc25
19	82	2	20	01	07	23.4	15.5	61	10.9	1012.0	8	003	03	0	0	2	5	5	0	1	82625						19	1Ci75
20	86	7	22	07	12	21.7	16.4	72	11.5	1018.0	2	013	02	2	2	7	5	4	/	1	87616						20	/Ci75
21	86	6	36	02	04	23.9	15.4	59	10.7	1024.7	0	001	03	1	1	1	1	6	4	1	81832	86075					21	1Ac63 COTRA Cu hum
22	72	5	07	07	12	24.4	17.2	64	12.0	1025.8	8	007	02	1	1	0	0	9	0	1	85081						22	COTRA
23	70	5	12	07	12	25.6	18.0	63	12.7	1019.7	8	010	15	1	1	5	0	9	8	/	83358	84364					23	Ac cas jp S&SW VV50k ex p
24	67	0	02	05	11	28.9	20.9	62	15.2	1017.6	0	003	02	0	0	0	0	9	0	0							24	
25	80	0	08	09	16	28.6	18.4	54	13.0	1017.4	5	008	02	0	0	0	0	9	0	0							25	
26	75	1	22	07	11	31.0	18.0	46	12.8	1013.0	0	000	02	0	0	0	0	9	0	2	81075						26	
27	84	7	16	04	11	25.6	15.3	53	10.7	1017.3	8	001	02	2	2	1	0	9	4	8	81365	83273	87078				27	COTRA
28	86	7	24	10	21	21.5	13.9	62	9.8	1017.3	2	017	03	1	1	7	8	5	/	/	86825	87640					28	Cu hum
29	83	5	27	09	14	19.0	8.6	51	6.8	1026.6	0	002	02	2	2	5	5	6	0	1	85636						29	1Ci75
30	83	7	21	06	12	18.4	12.4	68	8.8	1023.3	8	003	01	6	2	1	1	5	7	2	81820	85360					30	/Ci70 Cu hum COTRA

Mean vis = 35.1 km

Mean cloud = 5.7 71%

Mean wind speed = 7.3 kn

Mean gust = 14 kn

Mean TT = 19.4 °C

Mean TdTd = 12.9 °C

Mean RH = 67.1 %

Mean r = 9.4 g/kg

Mean PPP = 1016.1 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 JUNE 2026

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Cf	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	81	7	20	10	19	19.5	12.0	62	8.7	1012.9	7	009	03	2	2	7	5	5	/	/	87624	87640					1		
2	60	7	23	07	19	16.3	11.2	72	8.3	1003.6	2	006	80	8	2	5	9	5	6	3	82920	83825	85072				2	1Sc56 1Ac63	
3	82	6	21	13	24	19.4	12.9	66	9.4	997.8	6	028	16	6	2	5	8	5	0	1	85825						3	1Sc50 2Ci75 Cu med jpSW	
4	70	5	24	10	21	18.7	12.9	69	9.4	998.5	1	008	25	8	2	4	9	4	6	3	81915	83825					4	1Sc56 1Ac65 2Ci72 Cb cap Cu con jpN,E&S. vv70k ex p	
5	83	7	21	10	16	17.2	6.4	49	6.0	1012.3	0	003	01	2	2	7	8	6	/	/	81840	87656					5	Cu med	
6	65	8	20	10	21	15.4	13.9	91	9.9	1004.5	3	003	58	6	5	8	5	4	/	/	86713	88635					6	Absent vv&cld est	
7	75	8	21	08	16	17.3	10.7	65	7.9	1020.1	6	002	03	2	2	6	8	5	2	/	84827	85635	88460				7		
8	86	5	26	06	10	15.0	12.5	85	9.0	1012.6	8	002	01	8	2	5	8	5	0	0	82825	83635					8	2Sc50 Cu med	
9	84	2	25	14	27	18.1	3.2	37	4.8	1014.0	0	001	01	1	1	2	2	7	0	3	82850						9	1Ci72 Cu con Distant Cb tops S, NW&N	
10	86	5	27	05	20	18.1	5.7	44	5.6	1016.0	7	003	15	1	1	4	9	6	6	3	81935	82840	83650				10	2Ac60 1Ci75 COTRA jpSW, NW, NE	
11	58	8	21	10	19	14.5	13.9	96	9.8	1016.3	7	023	50	5	2	8	5	3	/	/	86707	88610					11		
12	89	3	26	12	25	21.7	13.1	58	9.3	1020.2	7	004	01	1	1	3	1	5	0	1	83828						12	1Ci80 COTRA Cu hum	
13	88	3	26	08	23	20.8	9.1	47	7.1	1020.9	8	013	02	0	0	1	1	6	0	2	81845	83078					13	1Ci73 COTRA Cu hum U&L/arc cont Parhelion	
14	84	7	31	05	11	20.4	8.7	47	6.9	1019.2	6	011	02	2	2	1	4	6	7	1	81645	83363	86366				14	/Ci72	
15	84	7	12	10	17	21.9	10.1	47	7.7	1012.2	7	015	02	2	2	1	1	6	0	8	81840	87271					15	COTRA Cu hum Halo 22°+U&L a/cont	
16	85	6	23	09	17	24.9	12.2	45	8.8	1014.5	4	000	03	2	2	4	8	6	7	1	82845	83656	85360				16	3Ac65 /Ci72 Cu hum Cu med SE	
17	84	7	21	10	16	22.3	15.6	66	11.0	1017.3	3	006	03	1	1	7	5	5	7	/	87620						17	/Ac59	
18	86	6	17	07	13	24.1	13.3	51	9.5	1015.0	6	015	01	2	2	1	1	6	8	8	81832	83369					18	1Ac59 3Cs72 COTRA Cu hum Ac cas	
19	89	2	22	10	19	27.7	12.1	38	8.8	1011.6	7	001	02	0	0	1	1	7	8	2	81850						19	1Ac64 1Ci75 Cu hum Ac cas	
20	80	7	21	05	13	22.5	13.3	56	9.3	1025.2	7	004	02	2	2	4	4	6	0	1	84833	87075					20	1Sc40 COTRA Cu med	
21	86	5	01	03	10	29.4	15.9	44	11.0	1024.3	7	001	02	2	2	1	1	7	0	1	81850	85075					21	Cu hum COTRA	
22	80	4	08	07	16	29.8	17.6	48	12.3	1023.3	6	016	02	1	1	0	0	9	0	1	84077						22	Sky turbid	
23	83	1	15	07	15	34.1	13.5	29	9.6	1016.8	6	019	02	0	0	0	0	9	0	1	81075						23		
24	78	0	02	05	11	34.4	19.2	41	13.8	1017.0	6	002	02	0	0	0	0	9	0	0							24		
25	81	1	08	10	17	34.5	19.7	42	13.5	1014.6	7	015	02	0	0	0	0	9	0	2	81074						25		
26	84	1	22	10	18	33.8	12.2	27	8.8	1014.5	2	004	03	0	0	1	1	8	8	2	81857						26	1Ac62 1Ac65 1Ci75 Cu hum	
27	84	6	19	08	16	30.6	15.5	40	10.9	1014.6	6	008	02	2	2	1	2	7	4	2	81850	83367	86072				27	Cu med	
28	86	5	26	10	17	24.7	10.2	40	7.7	1018.7	3	009	03	1	1	2	1	7	5	1	82850	83367					28	3Ci72 Cu hum	
29	88	7	23	05	13	21.4	8.7	44	6.9	1025.7	8	005	03	2	2	5	5	6	5	/	85648	86366					29		
30	82	6	26	10	15	23.2	9.6	42	7.3	1020.4	7	015	02	2	2	6	8	6	0	0	83848	84656					30	Cu med	

Mean vis = 45.0 km

Mean cloud = 5.1 63%

Mean wind speed = 8.5 kn

Mean gust = 17 kn

Mean TT = 23.1 °C

Mean TdTd = 12.2 °C

Mean RH = 52.9 %

Mean r = 9.0 g/kg

Mean PPP = 1015.2 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	Hour	01-Jun	02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	07-Jun	08-Jun	09-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun
Sunshine	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
Hourly	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
analysis	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
2026	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	0.09	0.00	0.53	0.04	0.42	0.00	0.35	0.00	0.00	0.00	0.10	0.00	0.49	0.49	0.00	0.00
	5	1.00	0.00	0.44	0.21	0.10	0.00	0.21	0.00	0.12	0.22	0.19	0.00	1.00	0.95	0.00	0.45
	6	1.00	0.00	0.00	0.38	0.35	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.51	1.00	0.00	0.89
	7	0.34	0.00	0.00	0.21	1.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.92	1.00	0.01	0.91
	8	0.37	0.32	0.00	0.23	0.50	0.02	0.00	0.00	0.36	0.50	0.00	0.00	0.99	1.00	0.02	0.79
	9	0.96	0.29	0.00	0.36	0.00	0.56	0.33	0.00	0.49	0.04	0.00	0.00	1.00	1.00	0.24	0.83
	10	0.87	0.69	0.00	0.01	0.00	0.21	0.00	0.00	0.86	0.67	0.00	0.00	0.97	1.00	0.78	0.99
	11	0.22	0.42	0.00	0.07	0.28	0.02	0.03	0.00	0.78	0.60	0.00	0.08	1.00	1.00	1.00	0.33
	12	0.00	0.15	0.00	0.56	0.11	0.00	0.04	0.00	0.49	0.12	0.00	0.21	1.00	0.42	0.31	0.83
	13	0.01	0.00	0.46	0.55	0.00	0.00	0.00	0.00	0.68	0.17	0.00	0.24	1.00	0.00	0.25	0.97
	14	0.03	0.27	0.38	0.60	0.05	0.00	0.00	0.31	0.71	0.82	0.00	0.81	1.00	0.96	0.09	0.83
	15	0.00	0.00	0.13	0.77	0.47	0.00	0.03	0.97	0.98	0.23	0.00	1.00	1.00	0.54	0.98	0.40
	16	0.00	0.42	0.03	0.93	0.55	0.00	0.00	0.56	0.97	0.95	0.00	1.00	1.00	0.00	0.90	0.04
	17	0.00	0.80	0.07	0.65	1.00	0.00	0.00	0.36	1.00	0.57	0.00	1.00	1.00	0.02	0.43	0.00
	18	0.00	0.94	0.04	0.15	0.55	0.00	0.00	0.82	1.00	0.08	0.00	1.00	1.00	0.01	0.00	0.00
	19	0.00	0.72	0.02	0.51	0.29	0.00	0.00	0.93	0.86	0.32	0.00	1.00	1.00	0.02	0.00	0.00
	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.14	0.19	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		4.90	5.02	2.10	6.22	5.66	0.80	1.00	3.95	10.32	5.46	0.30	6.47	15.07	9.40	4.99	8.29
		Hour	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	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	0.49	0.00	0.52	0.47	0.04	0.49	0.49	0.31	0.00	0.11	0.50	0.11	0.20
		5	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.84	0.52	0.76	0.24	0.00	0.44
		6	0.00	0.00	1.00	0.51	1.00	1.00	0.81	1.00	1.00	1.00	1.00	0.97	0.69	0.00	0.50
		7	0.05	0.00	1.00	0.47	0.99	1.00	0.19	1.00	1.00	1.00	0.95	0.89	0.43	0.00	0.45
		8	0.87	0.00	1.00	0.14	1.00	1.00	0.11	1.00	1.00	1.00	0.95	0.33	0.75	0.02	0.48
		9	0.98	0.24	0.92	0.16	0.87	1.00	0.74	1.00	1.00	1.00	0.99	0.05	0.42	0.61	0.54
		10	0.99	0.14	1.00	0.00	0.99	1.00	1.00	1.00	1.00	0.53	0.99	0.20	0.65	0.34	0.56
		11	0.96	0.69	1.00	0.00	0.94	1.00	1.00	1.00	1.00	0.99	0.93	0.58	0.18	0.53	0.55
		12	0.00	0.15	0.91	0.07	0.73	1.00	1.00	1.00	1.00	1.00	0.76	0.69	0.00	0.71	0.44
		13	0.04	0.00	1.00	0.10	0.83	1.00	1.00	1.00	1.00	1.00	0.88	0.67	0.06	0.80	0.46
		14	0.00	0.08	1.00	0.08	0.34	1.00	1.00	1.00	1.00	1.00	0.84	0.85	0.11	0.48	0.52
		15	0.00	0.83	1.00	0.69	0.51	1.00	1.00	1.00	1.00	1.00	0.61	0.16	0.04	0.44	0.56
		16	0.02	1.00	1.00	0.86	0.58	1.00	1.00	1.00	1.00	1.00	0.17	0.03	0.13	0.51	0.55
		17	0.15	1.00	1.00	1.00	0.53	0.12	1.00	1.00	1.00	0.85	0.01	0.34	0.02	0.29	0.51
		18	0.13	1.00	1.00	0.96	0.78	0.00	1.00	1.00	1.00	0.94	0.00	0.89	0.12	0.00	0.48
		19	0.00	1.00	0.49	0.12	0.73	0.00	0.97	0.89	0.98	0.95	0.08	0.79	0.00	0.00	0.42
		20	0.00	0.24	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.18	0.00	0.00	0.03
		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		4.18	6.38	14.81	5.22	12.34	12.59	12.87	15.37	15.46	14.47	9.69	8.50	4.36	4.84	231.00	

JUNE 2026	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	16.51	22.7	1105	10.5	357	77.3	98.3	2349	44.3	1106	12.1	8.8	10.9	2304	7.2	1047	1013.65	1018.0	28	1006.6	2359	8.9
2	15.90	20.1	1213	13.2	2355	83.9	99.5	513	52.5	1215	13.0	9.3	10.8	847	7.5	1246	1004.40	1007.5	2359	1002.2	1215	16.3
3	14.88	20.4	1448	11.6	407	82.2	97.6	1137	61.3	1454	11.7	8.6	11.4	1338	7.6	651	1001.91	1007.8	50	996.6	2352	3.1
4	15.33	19.6	1604	12.4	2357	72.6	93.1	13	48.6	1635	10.2	7.8	10.0	1421	6.7	1711	998.75	1006.2	2357	995.0	528	2.2
5	14.20	17.8	1548	10.8	417	67.0	95.3	427	43.2	1537	7.8	6.6	7.8	658	5.3	1537	1010.92	1012.6	1353	1006.0	4	0.2
6	13.56	16.9	1105	11.4	101	85.8	98.2	905	65.9	1107	11.2	8.3	10.4	919	6.9	0	1007.58	1015.8	2359	1003.6	1351	3.5
7	14.84	18.8	1238	10.2	306	73.7	86.4	310	58.7	932	10.1	7.6	8.6	1231	6.5	222	1019.04	1020.6	1052	1015.7	0	0
8	13.89	17.9	1711	8.8	2359	78.5	96.4	831	47.3	1707	10.0	7.7	9.7	1427	5.5	1731	1013.92	1017.3	5	1012.0	1614	4.8
9	13.56	18.7	1429	7.9	112	62.9	86.8	27	31.5	1515	6.0	5.8	7.9	945	4.2	1515	1014.83	1016.3	2228	1013.7	1256	0.1
10	13.17	18.2	1431	8.5	240	68.1	86.8	242	41.2	1421	7.0	6.2	7.3	1451	5.2	1634	1017.00	1020.3	2359	1015.8	456	0
11	12.96	17.0	1807	8.5	323	89.7	96.4	1110	81.6	1837	11.3	8.3	10.6	1721	6.2	28	1018.77	1020.9	803	1015.8	1620	5.1
12	17.21	21.7	1458	12.7	2301	75.7	91.4	436	54.1	1631	12.7	9.0	10.6	1305	7.5	1919	1020.31	1022.5	2216	1018.0	13	0
13	16.93	21.6	1620	12.3	317	60.9	90.0	318	39.0	1547	8.8	6.9	7.9	1150	5.9	1313	1021.84	1023.2	841	1020.0	1803	0
14	16.00	21.2	1524	9.3	356	64.5	91.2	403	40.8	1444	9.0	7.0	8.4	1542	6.3	1504	1020.29	1022.4	27	1018.0	2311	0
15	17.90	22.8	1656	12.6	506	71.8	96.3	620	41.0	1319	12.2	8.8	10.3	2355	7.2	1319	1014.14	1018.2	2	1010.6	2236	0.5
16	19.61	25.6	1435	15.4	328	68.8	91.3	0	38.5	1430	13.3	9.4	10.4	1235	8.0	1429	1014.41	1016.8	2220	1011.9	0	0
17	19.81	24.4	1318	16.4	105	77.8	94.4	2359	52.7	1149	15.6	10.9	11.6	615	9.8	1153	1017.08	1018.5	2338	1015.9	322	0
18	20.42	24.9	1520	16.2	2356	75.2	95.3	143	48.6	1500	15.5	10.8	12.6	1130	9.2	1501	1016.29	1018.6	37	1013.5	1814	0
19	21.46	28.5	1411	14.0	2357	70.5	98.6	2359	34.8	1508	15.2	10.6	12.8	1336	8.3	1507	1012.67	1015.3	2312	1011.3	1427	0
20	21.08	24.9	1629	16.3	2359	76.1	94.6	2359	56.5	1629	16.5	11.5	12.8	1414	10.7	1647	1020.42	1022.8	2255	1015.1	42	0
21	23.06	30.4	1614	15.2	2355	68.0	99.3	2359	35.4	1614	16.0	11.1	13.1	1750	9.3	1602	1024.91	1027.3	2334	1022.8	30	0.1
22	22.89	30.6	1418	16.1	2359	72.9	99.0	2019	40.2	1334	17.1	11.9	13.7	1141	10.9	1334	1023.71	1027.2	5	1022.1	2246	1.2
23	26.62	34.4	1450	18.6	2351	60.9	88.9	2352	26.1	1450	17.2	12.1	14.2	2310	8.8	1432	1016.90	1022.6	223	1015.5	1846	0.1
24	27.85	34.8	1511	19.4	2359	65.6	99.5	2231	37.3	1513	20.0	14.3	16.3	1002	12.7	1421	1017.39	1019.4	2351	1016.3	1616	0.1
25	27.25	34.7	1355	20.0	2347	63.6	93.8	2348	37.2	1458	19.0	13.5	15.1	1244	12.5	922	1014.64	1019.3	30	1013.3	1823	0
26	27.76	34.4	1430	20.7	2359	54.1	94.4	2359	20.8	1358	16.1	11.4	14.8	1108	7.0	1358	1014.77	1017.6	2322	1011.6	307	0
27	24.54	31.4	1324	18.5	2359	56.8	82.3	2359	32.5	1521	14.8	10.4	12.1	1127	8.5	1948	1014.75	1018.0	736	1013.4	1712	0
28	20.50	26.1	1300	13.8	2358	58.6	84.8	934	34.3	1300	11.6	8.5	11.2	934	6.2	2008	1020.07	1024.4	2359	1017.1	1	0
29	17.87	22.9	1416	11.3	409	59.6	84.8	449	39.7	1113	9.4	7.2	8.3	2353	6.4	1158	1025.75	1027.3	738	1024.3	3	0
30	19.17	24.8	1408	15.0	408	64.2	85.5	301	32.9	1411	11.7	8.4	9.7	757	6.4	1412	1022.24	1025.2	14	1019.6	1757	0.2
Total																						46.4
Mean	18.89	24.27		13.58		70.2	93.00		43.95		12.73	9.30	11.05		7.68		1015.78	1019.00		1013.11		
Max	27.85	34.80		20.67		89.7	99.50		81.62		19.95	14.33	16.28		12.72		1025.75	1027.32		1024.31		
Min	12.96	16.89		7.92		54.1	82.34		20.81		6.02	5.79	7.33		4.20		998.75	1006.19		994.98		

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/wwwp1.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 of 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.