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 — OCTOBER 2026

Temperature (°C)		Anomaly		Rank in the past **145** years
Mean maximum	16.9	+1.4		11th highest
Mean minimum	8.8	+1.3		12th highest
Daily mean	12.8	+1.3		14th highest
Highest maximum	22.3	on	5th	Lowest maximum 11.4 on 21st
Highest minimum	14.8	on	13th	Lowest minimum 3.3 on 17th
Mean grass minimum	5.3	+1.0		Lowest grass minimum -1.5 on 17th
Mean earth @30 cm	14.4	+1.0		Earth @100 cm 15.9 +1.2
Frost duration (hrs)	0.0			Rain duration (hrs) 67.6
Rainfall total (mm)	86.9	119%		38th highest
Highest daily fall	15.2	on	24th	Highest rate mm/hr 140 on 24th

Number of: Dry days (<0.2mm) 14 Wet days (>0.9mm) 12 days ≥5mm 8

Sunshine total (hrs) 145.9 Daily mean 4.71 128% Sunniest day 10.2 on 1st

N° days with: Air frost 0 Ground frost 2 Snow falling 0 Snow lying 0

Thunder 0 Hail ≥5mm 0 Small hail/ice 0 Fog @09 2 Nil sun 4

Pressure MSL : Mean @09 GMT, mbar 1018.6 +4.1 Highest 1034.7 on 17th Lowest 987.7 on 23rd

Relative humidity : Mean (%) 82.8 Lowest 32 on 4th Water vapour (g/kg), mean at 09 and 15 GMT 7.9, 7.3

Overall mean wind speed (mph) 6.6 Windiest day 13.8 on 25th Max gust 47 on 25th

Wind direction (days) N 2 NE 0 E 4 SE 1 S 4 SW 13 W 4 NW 3

Least windy day (mph) 1.3 on 29th Calm; less than 0.5 mph (minutes) n/a

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

Notes: **Very Mild with Above Average Rainfall and Sunshine**

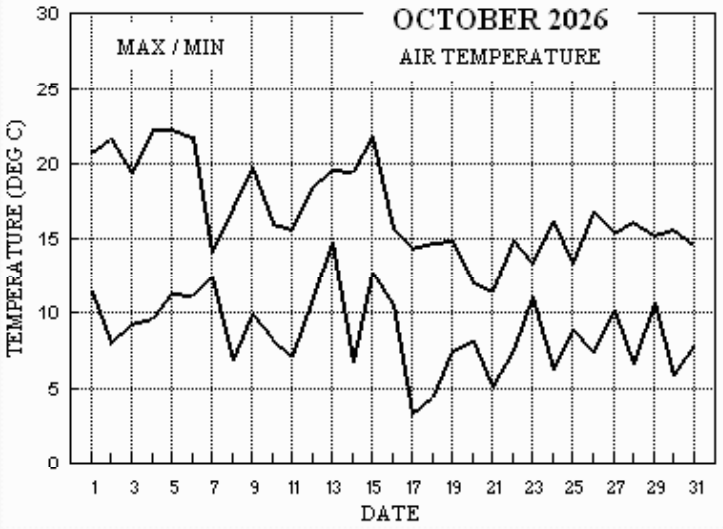
Temperature: This has been a very mild October with only a scattering of days when the maximum was below normal. In terms of the daily mean, it is the mildest October since 2023, but in this millennium 9 Octobers have been milder. The record holder is 2006 with a mean of 14.1°, 1.3° above this October's. The mean maximum is 2.2° below the record set as long ago as 1921, and is 2.1° above the long-term median. The mean minimum is 1.8° below the record set in 2001, and is 2.2° above its median. The highest max is 2.1° above the median, and the lowest max is 1.8° above its median. The highest min is 1.5°above the median while the lowest min is 4.1° above its median. In the past, air frost in October was fairly common, 84 out of the past 123 Octobers has had at least one, but in the past 7 years only October 2023 had an air frost. There were 2 ground frosts, 4 fewer than average, with the lowest grass min 2.7° above average. Earth temperature at both 30cm and 1 m depth are around 1° above average, and the highest daily value at both depths are new record highs. Anomalies for daily max were over +5° on the 4th to 6th and 15th and exceeded -2° on the 7th, 20th and 21st with extreme values of +6.7° on the 15th and -3.0°on the 21st. Anomalies for daily min were above +5° on the 13th and 15th, and exceeded -2° on the 17th and 18th with extreme values of +7.3° on the 13th and -3.2° on the 17th. **Rainfall:** This October saw a return to a more normal rainfall total, giving the wettest month since January this year, with a total that puts it in the wet category. However, in the current 30 year climatological average, October is the 2nd wettest month of the year after November, and high as this October's total is, it is only 19% above average, compared with 194% in January and 174% in February this year. In this millennium 10 Octobers have been wetter than this year's, the last in 2023. Apart from a couple of wet days on the 6th and 7th, most of this month's rain fell between the 18th and 26th, with 70.4 mm falling during this period. Compare this with the total for the previous 3 months which was only 44.1 mm. The number of dry days is only 2 fewer than average. There was no thunder or hail this month, but the rainfall rate was in the violent category on the 21st and 24th, and the 140 mm/hr on the latter date is the highest rate since 7th June 2025. **Sunshine:** The total this month is 28% above average, making it the sunniest October since 2022, and the 6th sunniest in this millennium There were no notable dull or sunny episodes, but 3 of the month's 4 sunless days occurred after the 19th. Individual sunny days, having over 75% of the maximum, were the 1st, 2nd, 4th, 8th and 25th, indicating that the first half of the month fared better, sun-wise, than the second half. **Wind:** The mean wind speed is 0.4 mph above average, and is the highest for the month since 2021. The month's highest gust is 4 mph above average, and is highest for October since 2014. Daily mean speeds were mainly light up to the 7th and after the 29th, were mostly moderate or fresh from the 8th to the 18th, and 21st to 28th, increasing to strong on the 23rd to 25th and the 27th. Daily mean directions were between N and E on the 18th to 21st and 30th and 31st, between E and S on the 12th and 29th, between W and N on the 6th to 8th and 16th, 17th and 23rd, otherwise were between S and W. **Humidity:** The relative humidity fell to 32% on the 4th, the lowest October value in the past 29 years.

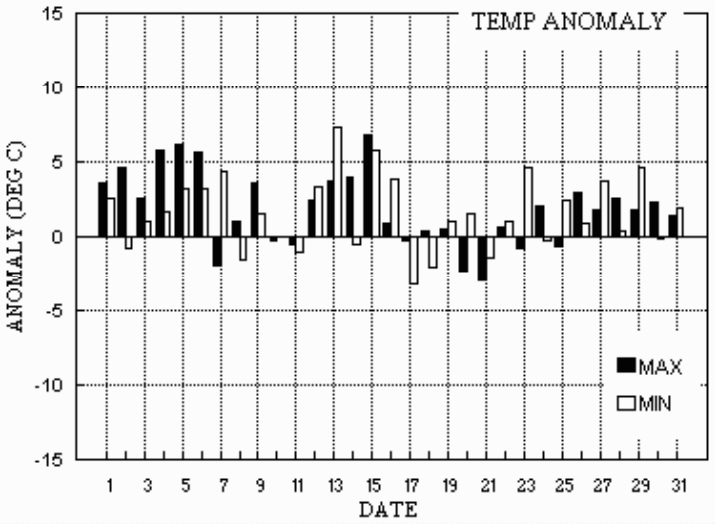
Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

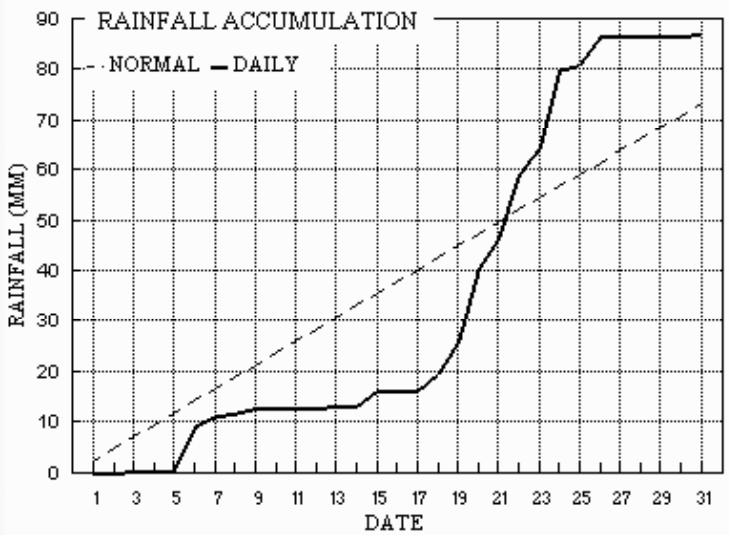
From the 1st to the 10th				From the 11th to the 20th				From the 21st to the 31st			
+3.1°	+1.5°	54%	160%	+1.6°	+1.6°	117%	118%	+1.0°	+1.6°	180%	106%

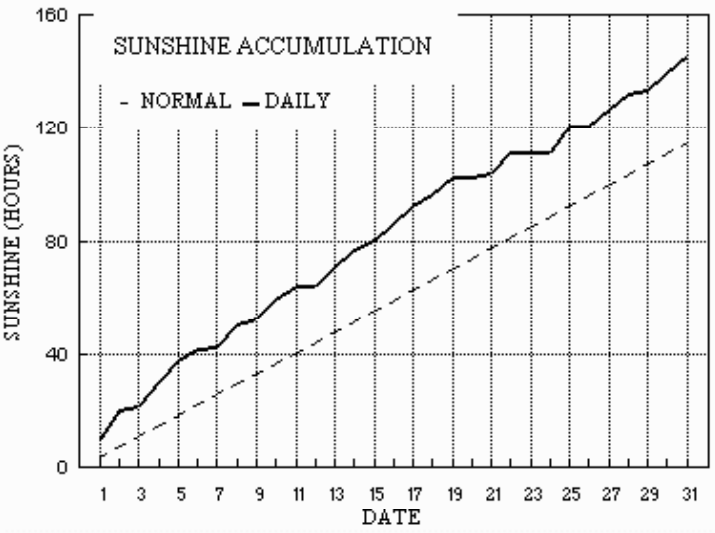
B J Burton FRMetS. Hon. Met. Officer to Wokingham Town Council.

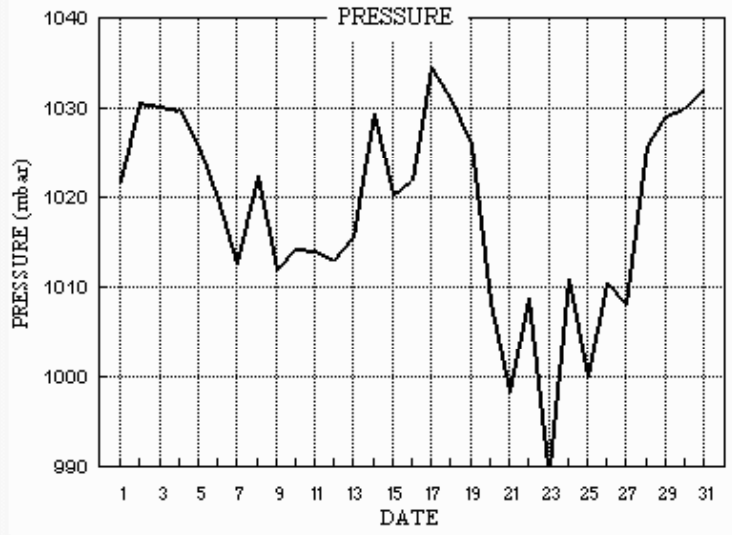
Wokingham climatological graphs for October 2026

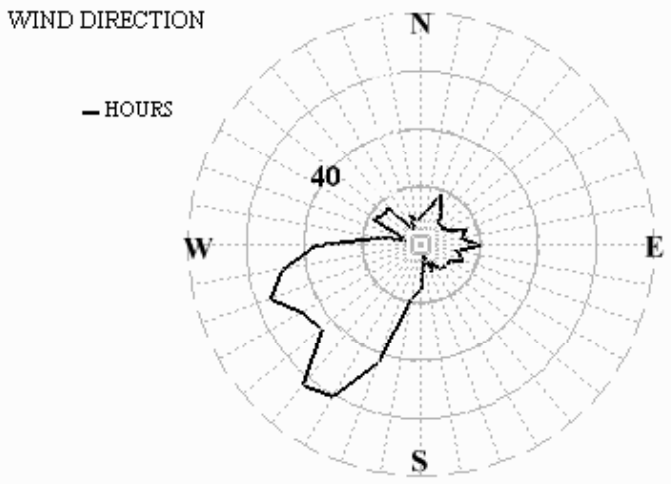


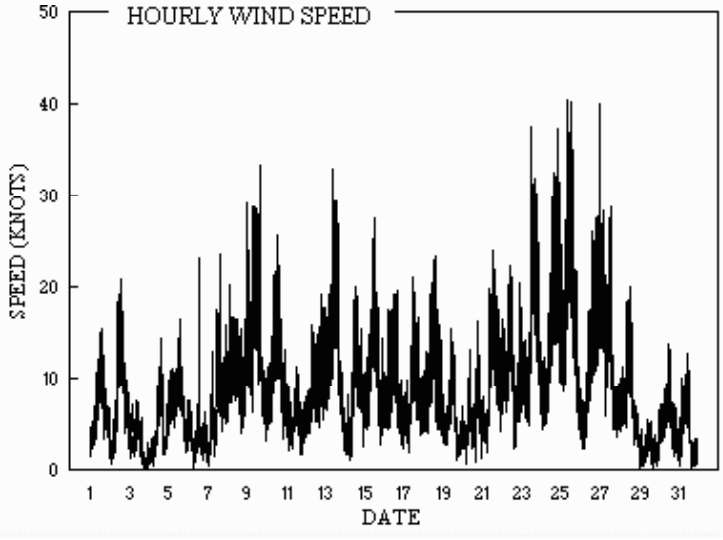


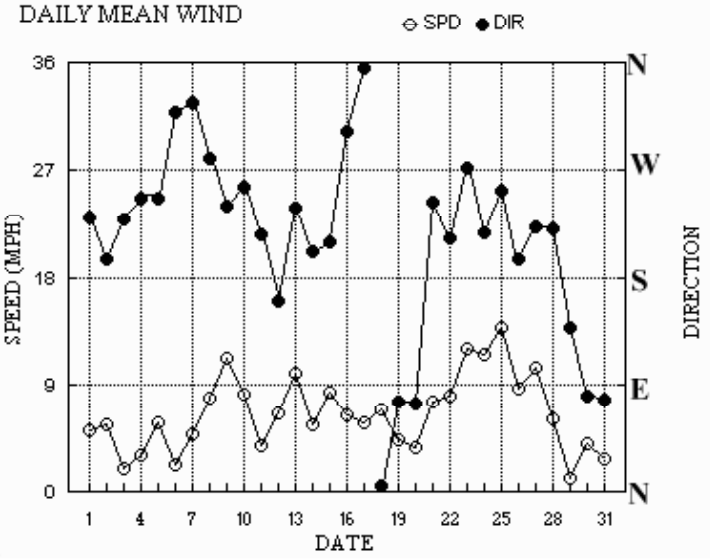












Daily meteorological data. Emmbrook, WOKINGHAM, Berkshire.

Month: OCTOBER 2026

Date	Max	Min	Rain	Grass	30cm	100cm	Sun	Frost	pp09	Af	Sf	Th	Ic	Vec mean			Max gust			High hr		Rain
	C	C	mm	Min	C	C	hrs	hrs	mbar	Gf	Sl	Ha	Fg	ddd	ff	sp	ddd	gg	HHhh	ddd	ff	HH	hrs
1	20.8	11.5	0.0	7.6	17.8	17.6	10.2	0.0	1021.7	0	0	0	0	230	4.1	4.5	252	16	1350	249	8	12	0.0
2	21.6	8.0	0.0	3.7	16.9	17.7	10.0	0.0	1030.8	0	0	0	0	195	4.6	4.9	190	21	1325	208	10	12	0.0
3	19.3	9.3	0.2	5.1	16.4	17.6	1.5	0.0	1030.3	0	0	0	0	228	1.1	1.7	234	8	0845	194	4	03	0.2
4	22.2	9.7	0.0	5.4	16.5	17.4	8.7	0.0	1029.9	0	0	0	0	246	2.5	2.7	216	15	1430	242	7	14	0.0
5	22.3	11.3	0.1	6.4	16.3	17.3	7.5	0.0	1025.8	0	0	0	0	247	4.9	5.0	248	17	1435	242	7	13	0.0
6	21.7	11.2	8.7	6.5	16.5	17.2	4.1	0.0	1019.9	0	0	0	0	318	0.6	2.0	354	23	1435	261	4	01	3.0
7	14.1	12.4	2.2	8.8	16.7	17.1	0.4	0.0	1012.6	0	0	0	0	325	4.0	4.3	340	24	1505	343	8	15	1.7
8	17.1	6.8	0.6	2.7	15.5	17.1	8.6	0.0	1022.4	0	0	0	0	280	5.7	6.9	296	20	0245	295	9	02	1.5
9	19.7	9.9	0.9	9.4	15.3	16.9	1.9	0.0	1012.0	0	0	0	0	240	9.4	9.7	264	34	1625	237	15	12	1.1
10	16.0	8.2	tr	4.0	15.2	16.7	6.3	0.0	1014.3	0	0	0	0	255	6.7	7.1	264	26	1430	265	12	14	0.0
11	15.7	7.1	tr	2.8	14.5	16.5	5.0	0.0	1014.2	0	0	0	0	217	2.4	3.4	211	12	1340	218	5	13	0.0
12	18.5	11.1	0.1	8.2	14.6	16.3	0.0	0.0	1013.1	0	0	0	0	161	4.4	5.8	204	19	1820	219	9	23	1.8
13	19.6	14.8	0.3	14.9	15.3	16.2	6.8	0.0	1015.5	0	0	0	0	238	7.9	8.7	252	33	0915	263	15	12	0.2
14	19.4	6.7	0.0	2.5	15.0	16.1	6.2	0.0	1029.4	0	0	0	0	202	4.7	4.9	212	20	1500	212	10	12	0.0
15	21.8	12.7	3.2	10.6	15.0	16.1	3.2	0.0	1020.2	0	0	0	0	210	7.0	7.2	211	28	1245	217	13	12	3.0
16	15.7	10.5	0.0	8.4	15.5	16.0	5.8	0.0	1022.0	0	0	0	0	302	4.5	5.6	351	20	1615	300	10	13	0.0
17	14.4	3.3	tr	-1.5	14.4	16.0	6.4	0.0	1034.5	0	1	0	0	354	4.4	5.1	9	21	1225	8	9	12	0.2
18	14.8	4.4	3.4	-1.2	13.6	15.9	4.1	0.0	1031.2	0	1	0	0	5	5.5	6.0	49	24	1405	18	10	12	2.7
19	14.9	7.5	5.9	2.9	13.4	15.6	6.0	0.0	1026.1	0	0	0	0	75	3.4	3.7	96	16	1005	94	8	10	9.2
20	12.1	8.1	14.6	3.8	13.5	15.4	0.0	0.0	1008.4	0	0	0	0	74	0.4	3.3	219	16	1950	223	6	19	6.1
21	11.4	5.1	6.0	1.6	13.4	15.3	1.3	0.0	998.4	0	0	0	0	243	4.6	6.5	256	24	1250	263	13	14	3.4
22	14.9	7.5	12.6	4.6	12.8	15.1	7.2	0.0	1008.8	0	0	0	0	212	4.6	7.0	246	23	1135	250	11	10	7.3
23	13.4	11.0	5.6	8.8	12.9	14.9	0.5	0.0	989.3	0	0	0	0	271	6.3	10.4	276	38	1245	277	18	13	4.5
24	16.1	6.2	15.2	2.7	12.4	14.7	0.0	0.0	1011.0	0	0	0	0	217	9.2	10.0	255	38	2030	244	17	20	10.3
25	13.4	8.9	1.3	5.5	12.5	14.5	9.0	0.0	1000.1	0	0	0	0	253	11.6	12.0	263	41	0935	265	19	12	1.5
26	16.8	7.4	5.8	3.1	11.9	14.4	0.0	0.0	1010.4	0	0	0	0	195	7.1	7.5	204	40	2340	202	14	22	9.9
27	15.4	10.1	0.0	10.0	12.7	14.2	6.2	0.0	1008.2	0	0	0	0	223	8.4	9.1	202	34	0105	200	16	01	0.0
28	16.1	6.6	tr	2.8	12.5	14.1	5.4	0.0	1025.9	0	0	0	0	221	5.2	5.4	239	20	1345	240	10	13	0.0
29	15.2	10.7	0.0	9.5	12.7	14.1	1.5	0.0	1029.3	0	0	0	0	138	0.8	1.1	124	6	1140	187	3	12	0.0
30	15.6	5.8	0.0	2.7	12.7	14.0	5.9	0.0	1030.1	0	0	0	0	80	3.3	3.5	93	14	1400	97	7	14	0.0
31	14.6	7.9	0.2	2.9	12.5	14.0	6.2	0.0	1032.1	0	0	0	0	77	2.3	2.5	68	13	1200	82	6	12	0.0
Total			86.9				145.9	0.0															67.6
Mean	16.9	8.8		5.3	14.4	15.9	4.71	0.0	1018.6					237	3.1	5.7							
Anom	+1.4	+1.3	119%	+1.0	+1.0	+1.2	128%		+4.1														

Daily mean 12.8 Pressure, abs highest = 1034.7 on 17

Anom +1.3 Pressure, abs lowest = 987.7 on 23

Number of days with:

Air frost = 0 Ground frost = 2 Nil sun = 4

Snow falling = 0 Snow lying = 0 Thunder = 0

Hail=>5mm = 0 Hail<5mm or ice = 0 Fog at 09GMT = 2

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 October 2026

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	hCmCh	NChshs	NChshs	NChshs	Date	Remarks
1	75	1	26	06	09	14.9	13.6	92	9.6	1021.7	2	026	03	0	0	1	1	3 0 0	81808			1	Cu fra
2	78	5	20	05	08	16.6	12.2	75	8.6	1030.8	1	010	03	1	1	1	8	4 3 1	81815	85080		2	1Sc45 1Ac66 COTRA Cu hum Dist Cu tops S
3	65	8	24	04	07	15.5	13.9	90	9.6	1030.3	1	009	03	2	2	8	5	5 / /	82625	86633	88645	3	
4	15	5	27	02	04	12.6	12.4	99	8.8	1029.9	0	000	28	4	2	4	6	1 0 1	84702	83078		4	COTRA vv400m at 0845
5	75	7	25	05	08	14.6	12.3	86	8.7	1025.8	1	007	02	2	2	7	6	2 / /	87705			5	
6	05	8	22	01	03	13.4	13.4	100	9.5	1019.9	7	002	50	5	4	8	6	1 / /	88702			6	
7	56	8	02	01	04	12.9	12.7	99	9.1	1012.6	0	005	63	6	6	3	5	6 2 /	83635	88550		7	
8	86	1	31	06	15	10.2	4.8	69	5.3	1022.4	2	025	02	0	0	0	0	9 0 1	81078			8	
9	82	7	24	11	23	16.8	12.9	78	9.2	1012.0	6	007	02	6	2	3	5	5 7 /	83620	87463		9	1Ac61
10	82	2	26	10	15	12.3	6.6	68	6.0	1014.3	3	007	03	0	0	2	8	5 0 0	81825			10	2Sc50 Cu hum
11	82	6	27	02	05	11.2	8.1	81	6.7	1014.2	2	010	02	2	2	5	5	7 0 8	85650	86277		11	COTRA Halo 22 part
12	56	8	13	07	13	14.8	13.3	91	9.5	1013.1	2	006	60	5	2	7	7	3 2 /	87706	88540		12	
13	50	8	22	10	19	18.2	17.4	95	12.3	1015.5	2	014	58	6	2	7	7	2 2 /	83705	87707	88540	13	
14	63	2	16	02	04	12.6	11.8	95	8.4	1029.4	1	004	02	0	0	0	0	9 0 1	81175			14	2Ci80 COTRA
15	84	7	21	10	16	18.6	14.9	79	10.4	1020.2	4	000	03	2	2	5	8	4 3 1	85813	83368		15	1Sc40 /Ci75 COTRA Cu med
16	80	7	31	06	10	11.6	10.3	92	7.7	1022.0	1	024	01	6	2	7	7	3 / 2	86708			16	2Sc56 2Ci72 COTRA
17	82	0	36	06	12	9.3	6.2	81	5.8	1034.5	2	015	02	0	0	0	0	9 0 0				17	
18	82	1	35	05	12	9.7	5.1	73	5.3	1031.2	6	005	02	0	0	1	8	6 3 0	81830			18	1Sc45 1Ac67 Cu hum
19	50	1	06	04	09	10.0	9.9	99	7.4	1026.1	0	005	40	1	1	1	6	0 3 0	81701			19	1Ac58 jF NW, in Lodon valley
20	30	8	05	05	12	12.1	11.9	99	8.7	1008.4	7	029	61	6	6	7	7	2 2 /	83705	87708	88515	20	
21	20	8	27	08	14	9.3	9.3	100	7.4	998.4	3	004	65	6	2	7	7	1 2 /	83702	85705	88510	21	
22	83	1	24	09	16	11.3	7.6	78	6.5	1008.8	1	027	02	0	0	1	5	7 0 0	81650			22	
23	58	8	36	03	10	11.3	11.1	99	8.4	989.3	3	013	61	6	6	7	5	3 2 /	82708	87613	88520	23	
24	75	8	22	07	13	10.0	7.4	84	6.4	1011.0	7	017	03	2	2	6	5	6 2 /	83640	85650	88558	24	
25	75	1	26	14	29	11.6	3.6	58	5.0	1000.1	2	039	03	0	0	1	1	5 0 0	81828			25	Cu fra
26	56	8	17	04	09	10.0	9.2	95	7.2	1010.4	8	016	63	6	2		7	7 4 /	85710	85635	88556	26	
27	84	6	22	05	13	12.9	12.0	94	8.7	1008.2	2	040	21	6	2	6	5	3 8 /	81708	83650	86656	27	/Ac58 Ac cas
28	67	5	21	05	08	11.6	8.1	79	6.6	1025.9	2	010	01	1	1	3	5	6 4 1	83640			28	1Ac65 2Ci70
29	62	3	14	02	04	12.7	11.4	92	8.2	1029.3	1	008	01	1	1	3	5	6 0 1	83645			29	1Ci75
30	08	8	09	05	08	10.5	10.5	100	7.7	1030.1	1	012	42	4	4	8	6	0 / /	88701			30	
31	25	8	09	04	08	9.2	9.1	99	7.0	1032.1	2	011	10	2	2	8	6	2 / /	88704			31	

Mean vis = 21.5 km
Mean cloud = 5.3 66%
Mean wind speed = 5.6 kn
Mean gust = 11 kn
Mean TT = 12.5 °C
Mean TdTd = 10.4 °C
Mean RH = 87.7 %
Mean r = 7.9 g/kg
Mean PPP = 1018.6 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 OCTOBER 2026

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cm	Ch	NChshs	NChshs	NChshs	Date	Remarks
1	84	2	25	06	14	20.4	6.7	41	6.0	1024.1	2	009	02	0	0	1	2	6	0	4	82848			1	1Ci78 COTRA Cu med
2	85	5	20	07	18	20.6	7.2	42	6.2	1028.6	7	012	01	2	2	1	4	6	4	1	81845	85080		2	1Sc50 1Ac68 COTRA Cu hum
3	82	7	32	02	05	18.7	13.6	72	9.5	1029.3	6	005	80	8	2	7	8	5	/	8	85820	86635		3	/Sc50 /Cs75 Cu med
4	89	5	24	07	13	21.5	10.6	50	7.8	1027.0	7	019	02	1	1	0	0	9	0	2	85075			4	COTRA
5	89	3	25	07	15	22.1	13.7	59	9.6	1021.8	7	023	02	0	0	1	1	6	0	1	81830	83077		5	COTRA Cu hum
6	88	6	07	02	06	21.1	13.0	60	9.3	1016.1	7	022	03	1	1	1	1	6	8	2	81830	83366	86370	6	1Ci75 Cu hum Ac cas vir
7	60	8	33	08	17	11.7	10.1	90	7.7	1012.9	2	009	50	6	2	8	5	3	/	/	85609	88615		7	
8	86	7	29	07	13	14.5	5.6	55	5.6	1023.1	3	001	03	1	1	2	8	6	0	4	81840	85072		8	1Sc50 3Cc75 Cu med Cz arc+U/a cont
9	50	7	24	10	17	17.1	16.3	95	11.5	1008.2	6	016	80	6	2	7	8	3	/	/	82707	86615		9	/Cu20 Cu med Clearance to N
10	84	6	27	11	23	15.4	3.5	45	4.9	1013.5	7	008	15	1	1	6	8	6	0	0	82848	85656		10	Cu med jpNW
11	85	2	22	05	09	15.3	6.6	56	6.0	1013.2	6	008	01	1	1	1	8	6	3	1	81835			11	1Sc45 1Ac65 1Ci75 COTRA Cu hum
12	62	8	17	07	12	17.8	15.8	88	11.1	1012.7	5	004	50	6	2	8	5	3	/	/	87708	88612		12	
13	81	1	27	12	26	19.0	8.9	52	7.0	1021.5	2	022	02	0	0	1	1	6	0	1	81845			13	1Ci78 Cu hum El hz
14	81	7	21	10	18	18.2	10.3	60	7.7	1025.6	7	021	03	2	2	4	4	6	0	1	83833	87075		14	2Sc50 COTRA Cu med
15	86	6	21	10	17	20.3	12.8	62	9.1	1019.0	7	009	02	2	2	4	8	6	0	9	82830	83640		15	3Cc73 2Ci80 COTRA Cu hum Cc cas
16	83	2	32	07	16	14.5	4.2	50	5.1	1024.6	3	014	02	1	1	2	4	6	0	1	82842			16	1Sc56 1Ci75 Cu med
17	80	7	03	08	15	12.1	6.6	69	5.9	1033.4	5	007	80	1	1	7	8	5	/	/	83825	85640	86650	17	Cu med
18	50	8	01	05	12	9.3	8.1	92	6.6	1029.7	5	005	63	6	2	3	5	6	2	/	84630	88556		18	
19	81	7	12	06	11	13.3	6.6	64	6.0	1023.1	7	019	03	2	2	7	8	6	/	/	83839	86648		19	Cu hum
20	56	8	13	01	06	11.9	11.7	99	8.6	1004.2	7	017	21	6	2	8	5	3	/	/	83706	86612	88640	20	Mist
21	84	7	27	12	22	11.3	5.6	68	5.7	1004.3	2	026	21	6	2	7	8	5	3	2	81620	86635		21	1Cu25 /Ac57 1Ci70 Cu med
22	86	6	23	06	12	14.3	5.9	57	5.8	1009.1	8	011	03	1	1	1	4	6	0	5	81835	86075		22	1Sc45 1Cs68 1Cc70 Cu med U/a cont Iridescence
23	57	8	28	17	29	8.1	6.2	88	6.0	1001.2	2	074	63	6	6	7	5	4	2	/	85712	87618	88525	23	
24	50	8	20	14	26	12.7	11.9	95	8.8	997.6	7	084	63	6	6	7	7	3	2	/	85708	87712	88520	24	
25	82	4	27	15	37	13.0	3.1	51	4.8	1006.8	2	033	02	1	1	4	8	6	0	0	82845	83650		25	Cu hum
26	63	8	22	10	21	15.8	15.2	96	10.8	1005.9	6	017	51	5	6	8	5	3	/	/	82708	87712	88618	26	
27	82	2	27	07	25	13.9	6.3	60	5.9	1013.4	2	026	01	1	1	2	4	6	0	3	81835			27	2Sc50 1Ci68 Cu med Cb top dist W
28	75	7	23	07	14	15.1	9.2	68	7.1	1026.3	3	002	15	1	1	7	8	6	/	/	82828	85633	87645	28	Cu hum jpN
29	81	8	13	01	05	14.9	10.3	74	7.6	1028.4	7	009	02	2	2	8	8	5	/	/	81820	88640		29	Cu med
30	78	4	10	05	12	15.0	8.9	67	7.0	1028.6	7	011	02	1	1	0	0	9	0	1	84080			30	COTRA Parhelia, bright
31	72	3	08	05	08	14.0	8.0	67	6.5	1030.9	6	008	02	0	0	0	0	9	0	1	83081			31	COTRA

Mean vis = 36.5 km
Mean cloud = 5.7 71%
Mean wind speed = 7.6 kn
Mean gust = 16 kn
Mean TT = 15.6 °C
Mean TdTd = 9.1 °C
Mean RH = 67.5 %
Mean r = 7.3 g/kg
Mean PPP = 1018.2 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 Sunshine Hourly analysis

2026

Hour	01-Oct	02-Oct	03-Oct	04-Oct	05-Oct	06-Oct	07-Oct	08-Oct	09-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct
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	0.00	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
6	0.65	0.64	0.04	0.00	0.00	0.00	0.00	0.50	0.00	0.29	0.00	0.00	0.00	0.26	0.00	0.00
7	1.00	1.00	0.81	0.00	0.00	0.00	0.00	1.00	0.00	0.83	0.34	0.00	0.00	1.00	0.01	0.00
8	1.00	1.00	0.15	0.48	0.00	0.00	0.00	1.00	0.00	1.00	0.20	0.00	0.00	1.00	0.66	0.22
9	1.00	0.95	0.00	1.00	0.28	0.00	0.00	1.00	0.09	0.94	0.98	0.00	0.00	1.00	0.63	0.40
10	0.77	0.87	0.13	1.00	1.00	0.04	0.00	1.00	0.32	0.27	0.88	0.00	0.96	0.89	0.36	0.77
11	0.94	0.99	0.00	1.00	1.00	1.00	0.00	0.97	0.12	0.22	0.04	0.00	1.00	0.47	0.24	0.65
12	0.78	0.78	0.00	0.98	1.00	0.89	0.00	0.83	0.28	0.39	0.36	0.00	0.99	0.73	0.27	0.84
13	0.84	0.33	0.00	0.99	1.00	0.97	0.00	0.95	0.00	0.60	0.10	0.00	0.93	0.20	0.09	0.67
14	1.00	0.99	0.05	1.00	1.00	1.00	0.00	0.46	0.00	0.72	0.91	0.00	0.98	0.42	0.11	0.98
15	1.00	1.00	0.21	0.94	0.99	0.21	0.00	0.42	0.37	0.22	1.00	0.00	0.95	0.20	0.02	0.96
16	1.00	1.00	0.00	1.00	0.85	0.00	0.11	0.50	0.69	0.74	0.17	0.00	1.00	0.00	0.84	0.32
17	0.22	0.49	0.09	0.31	0.37	0.00	0.26	0.00	0.02	0.03	0.00	0.00	0.02	0.00	0.00	0.00
18	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
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	**10.20**	**10.04**	**1.49**	**8.71**	**7.49**	**4.12**	**0.37**	**8.63**	**1.90**	**6.25**	**4.98**	**0.00**	**6.83**	**6.17**	**3.24**	**5.82**

Hour	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	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	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	0.00	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
6	0.08	0.00	0.05	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
7	1.00	0.58	1.00	0.00	0.00	1.00	0.00	0.00	0.98	0.00	0.00	0.78	0.00	0.00	0.00	0.37
8	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.54	0.00	0.00	0.43
9	1.00	0.98	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.51	1.00	0.97	0.00	0.00	0.51
10	1.00	0.59	0.79	0.00	0.00	0.90	0.00	0.00	0.93	0.00	0.91	0.65	0.00	0.48	0.80	0.53
11	0.98	0.29	0.94	0.00	0.00	0.30	0.37	0.00	0.77	0.00	0.95	0.57	0.00	1.00	1.00	0.51
12	0.71	0.59	0.30	0.00	0.00	0.54	0.00	0.00	0.92	0.00	0.80	0.47	0.00	1.00	1.00	0.50
13	0.27	0.04	0.19	0.00	0.02	0.82	0.00	0.00	0.96	0.00	0.70	0.74	0.00	1.00	1.00	0.43
14	0.31	0.00	0.04	0.00	0.26	0.93	0.00	0.00	0.99	0.00	0.98	0.18	0.00	1.00	1.00	0.49
15	0.00	0.00	0.14	0.00	0.44	0.65	0.00	0.00	0.84	0.00	0.98	0.03	0.00	1.00	1.00	0.44
16	0.00	0.00	0.53	0.00	0.57	0.00	0.13	0.00	0.55	0.00	0.37	0.00	0.00	0.45	0.40	0.36
17	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	0.06
18	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
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	**6.36**	**4.07**	**6.00**	**0.00**	**1.29**	**7.20**	**0.50**	**0.00**	**8.96**	**0.00**	**6.19**	**5.42**	**1.51**	**5.92**	**6.20**	**145.84**

OCTOBER 26	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	15.12	20.8	1250	10.0	2355	75.7	98.6	719	37.9	1328	10.2	7.7	9.8	900	5.7	1328	1022.64	1029.2	2359	1015.3	8	0.0
2	14.76	21.6	1223	8.0	339	73.3	98.3	534	39.7	1441	9.2	7.1	8.9	913	6.0	1621	1029.57	1030.8	935	1028.5	1505	0.0
3	13.59	19.3	1439	9.3	522	90.3	98.6	2348	67.8	1442	11.9	8.5	10.5	1557	6.9	522	1029.76	1030.7	2019	1028.6	359	0.2
4	14.66	22.2	1422	10.3	556	79.8	100.0	920	31.6	1338	10.4	7.7	9.8	955	5.1	1338	1028.55	1030.3	0	1026.8	1551	0.0
5	16.43	22.3	1311	11.8	2359	81.9	98.9	2357	49.5	1311	13.0	9.1	10.0	1134	8.1	8	1023.93	1027.0	8	1021.5	2356	0.0
6	15.65	21.7	1439	11.2	51	87.3	100.0	1002	58.1	1439	13.3	9.4	10.9	1050	8.1	52	1017.88	1021.5	5	1014.2	2356	0.1
7	11.87	14.5	536	8.1	2352	91.9	99.6	1006	76.9	1933	10.6	8.0	10.0	513	5.7	2159	1013.49	1017.3	2359	1011.8	1135	10.9
8	10.84	16.3	1312	6.8	551	72.7	92.3	53	47.2	1313	5.8	5.7	7.3	2359	5.0	1047	1021.06	1023.2	1124	1017.2	8	0.6
9	15.15	19.7	1203	10.2	2327	81.0	97.3	1437	57.2	1744	11.8	8.7	11.6	1440	6.1	1747	1011.71	1017.4	2	1008.1	1521	0.9
10	11.46	16.0	1359	8.2	604	67.9	85.9	642	43.5	1433	5.4	5.6	6.4	929	4.7	1433	1013.75	1014.6	1059	1013.0	0	0.0
11	11.56	15.7	1429	7.1	209	77.1	94.7	727	49.5	1241	7.4	6.4	8.2	2359	5.3	1317	1013.56	1014.3	848	1012.9	1615	0.0
12	15.21	18.5	1528	11.1	314	91.4	98.7	1749	83.4	750	13.8	9.8	12.1	1802	7.8	510	1013.24	1015.1	2356	1012.4	1341	0.1
13	16.32	19.6	1224	8.7	2358	77.6	98.2	304	46.2	1259	12.0	8.8	12.4	842	6.2	1640	1019.81	1028.8	2359	1013.9	522	0.3
14	13.28	19.4	1245	6.7	646	81.3	99.6	816	53.5	1251	9.8	7.4	8.9	1117	5.9	646	1026.90	1029.5	811	1023.0	2354	0.0
15	17.32	21.8	1238	13.8	2304	79.1	96.0	2225	56.0	1238	13.5	9.5	10.7	808	7.8	0	1019.87	1022.7	0	1018.4	2259	0.0
16	12.25	15.7	1248	6.3	2314	78.9	99.0	522	47.1	1422	8.4	6.9	9.9	313	5.0	1438	1023.46	1031.0	2359	1017.2	340	3.2
17	8.62	14.4	1417	3.3	517	79.6	100.0	606	52.8	1218	5.0	5.3	6.5	1604	4.7	517	1033.39	1034.7	1036	1030.9	7	0.0
18	8.80	14.8	1255	4.4	515	82.2	97.0	2338	55.4	1255	5.8	5.6	6.8	2358	4.7	515	1030.14	1033.3	5	1026.4	2359	3.0
19	10.33	14.9	1215	7.5	701	86.3	99.6	901	57.4	1311	7.9	6.5	7.8	912	5.5	1303	1023.77	1026.4	745	1017.9	2359	1.2
20	10.91	12.1	900	7.9	2311	99.3	99.9	1332	96.8	2148	10.8	8.1	8.8	1504	6.6	2314	1007.79	1017.9	0	1002.9	2359	13.0
21	8.55	11.4	1607	5.1	341	88.0	100.0	347	58.4	1640	6.5	6.1	7.5	834	4.7	1653	1003.08	1009.3	2131	997.3	808	12.4
22	11.45	14.9	1330	8.6	706	79.2	99.3	2218	54.3	1434	7.8	6.6	8.9	2356	5.6	1500	1006.51	1010.5	1226	996.3	2358	8.4
23	10.08	13.4	1156	7.0	2346	86.5	99.5	731	66.1	2108	7.8	6.8	8.9	2	4.4	2107	998.10	1012.4	2359	987.7	647	10.1
24	10.58	16.1	2013	6.2	416	88.7	97.9	1727	73.6	1	8.8	7.3	10.7	1958	4.6	0	1003.06	1013.4	419	988.8	2015	15.2
25	10.57	13.4	1214	7.7	2240	65.9	86.5	0	44.5	1353	4.2	5.2	7.1	0	4.2	1306	1003.08	1013.4	2351	992.1	6	0.0
26	12.62	16.8	2158	7.4	210	87.0	98.9	1340	73.3	344	10.5	8.1	10.8	1415	5.1	344	1008.89	1013.6	107	1004.9	2325	2.8
27	12.89	16.4	138	7.6	2325	79.7	96.5	640	50.8	1411	9.3	7.4	10.4	419	5.3	1411	1011.31	1022.3	2347	1003.1	505	4.3
28	11.44	16.1	1258	6.6	616	81.9	94.1	619	63.1	1250	8.3	6.7	8.0	2301	5.3	146	1025.94	1028.2	2236	1022.1	1	0.0
29	11.58	15.2	1436	6.2	2356	91.2	99.8	2350	71.0	1431	10.1	7.5	8.5	844	5.7	2358	1028.82	1029.7	1027	1027.5	249	0.0
30	10.59	15.6	1246	5.8	33	91.6	100.0	49	61.5	1520	9.1	7.0	9.0	1038	5.6	51	1029.58	1031.0	2355	1028.6	1450	0.0
31	9.58	14.6	1238	4.5	2335	91.5	100.0	2346	64.0	1345	8.1	6.6	7.4	1040	5.1	2335	1031.66	1033.2	2321	1030.8	320	0.0
Total																						86.7
Mean	12.39	16.94		7.85		82.8	97.57		57.68		9.24	7.32	9.17		5.69		1018.52	1023.00		1014.19		
Max	17.32	22.30		13.84		99.3	100.00		96.80		13.80	9.80	12.40		8.14		1033.39	1034.72		1030.94		
Min	8.55	11.43		3.29		65.9	85.94		31.62		4.21	5.17	6.37		4.19		998.10	1009.27		987.65		

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

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

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

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

Appendix 1.

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.

B J Burton. 3 August 2009. Updated 4 May 2014.

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 of 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.