

# WOKINGHAM METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

Lat/Long 51°25'N 00°51'W NGR (SU)800699 Altitude 44m ASL.

## Monthly Means and Totals

OCTOBER 2004

Temperature (°C / °F)			Anomaly	Rank in the past 123 years			
Mean maximum	14.9	58.8	+0.1	50 <sup>th</sup> highest			
Mean minimum	7.9	46.2	+1.2	9 <sup>th</sup> highest			
Daily mean	11.4	52.5	+0.6	20 <sup>th</sup> highest			
Highest maximum	17.5	63.5	on 24 <sup>th</sup>	Lowest maximum	10.2	50.4	on 16 <sup>th</sup>
Highest minimum	13.6	56.5	on 23 <sup>rd</sup>	Lowest minimum	1.7	35.1	on 19 <sup>th</sup>
Mean grass minimum	4.5	40.1		Lowest grass minimum	-1.6	29.1	on 19 <sup>th</sup>
Mean earth @30 cm	13.0	55.4	+0.2	Earth @100 cm	14.6	58.3	+0.2
Frost duration (hrs)	0.0			Rain duration (hrs)	73.7		
Rainfall total (mm / in)	109.2	4.30	163 %	18 <sup>th</sup> highest			
Highest daily fall	16.4	0.65	on 13 <sup>th</sup>				
Number of: Dry days (<0.2mm)	9	Wet days (>0.9mm)	17	days ≥5mm	7		
Sunshine total (hrs)	97.3	Daily mean	3.14	Sunniest day	9.1	21 <sup>st</sup>	
N <sup>o</sup> days with: Air frost	0	Ground frost	3	Snow falling	0	Snow lying	0
Thunder	1	Hail ≥5mm	0	Small hail/ice	1	Fog @09	0
						Nil sun	2
Air pressure MSL : Mean @09 GMT (mbar/in)	1006.9		-8.3	29.73			
Absolute highest	1024.7			30.26	on 31 <sup>st</sup>		
Absolute lowest	986.5			29.13	on 20 <sup>th</sup>		

Anomaly = departure from 1971 to 2000 average.

Notes:

**Mild.**

**Wet.**

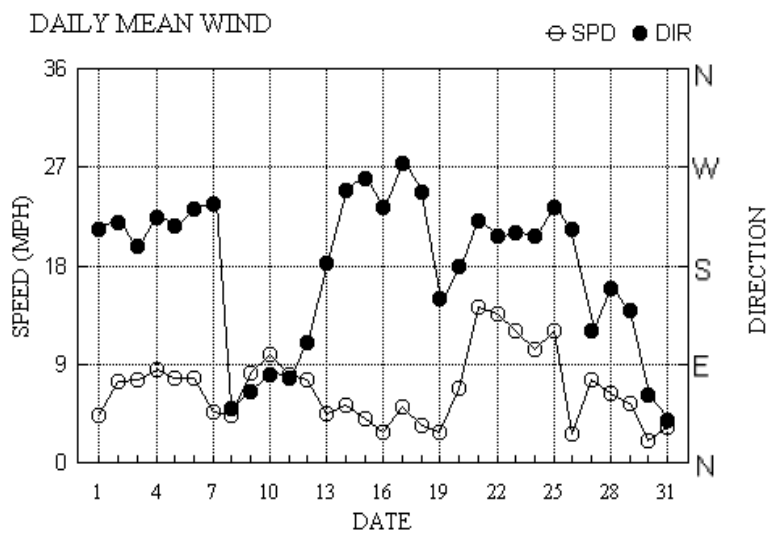
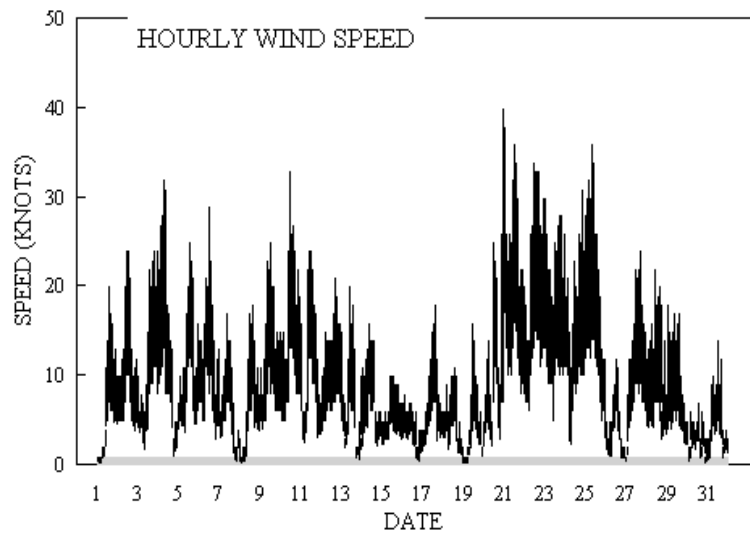
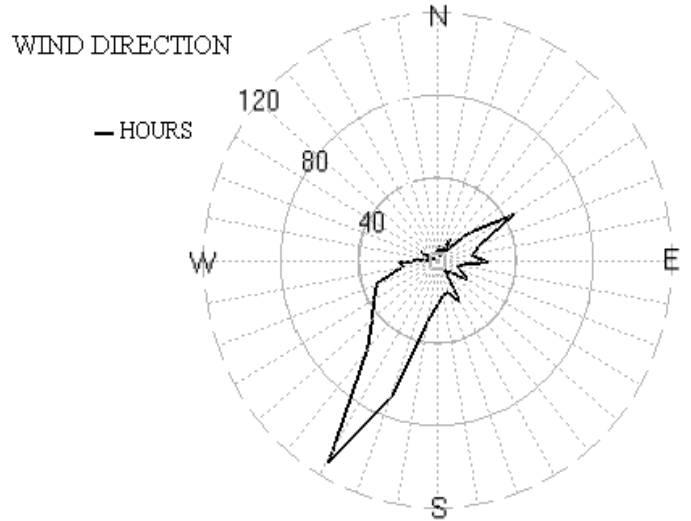
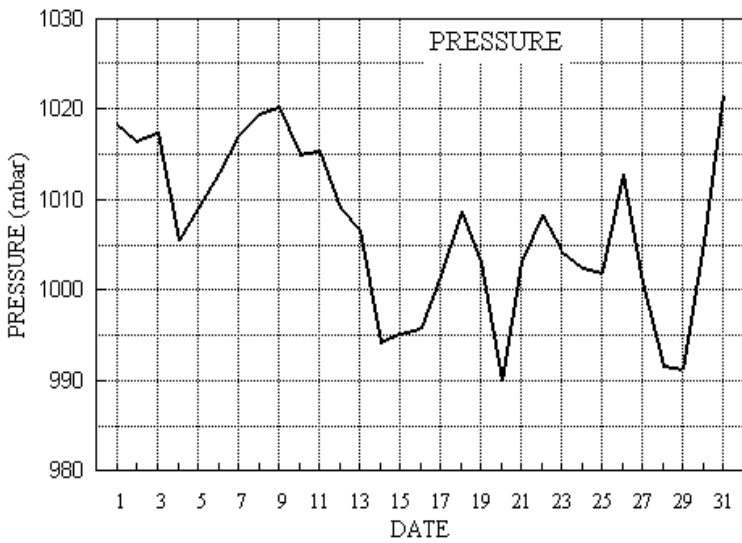
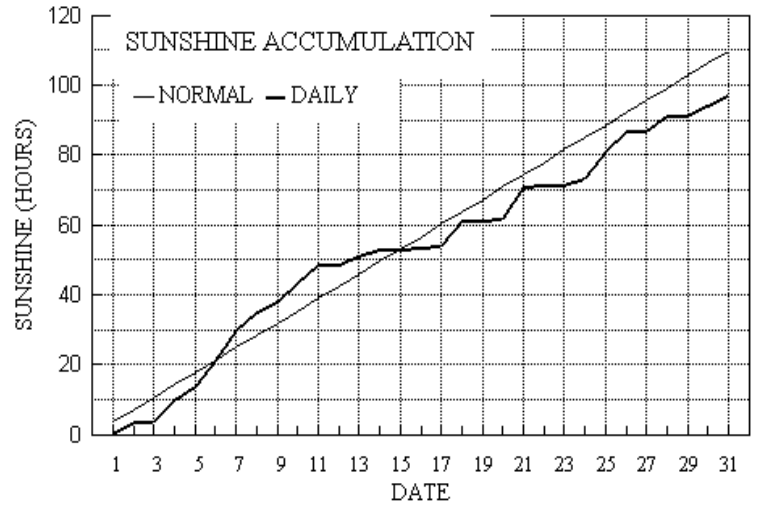
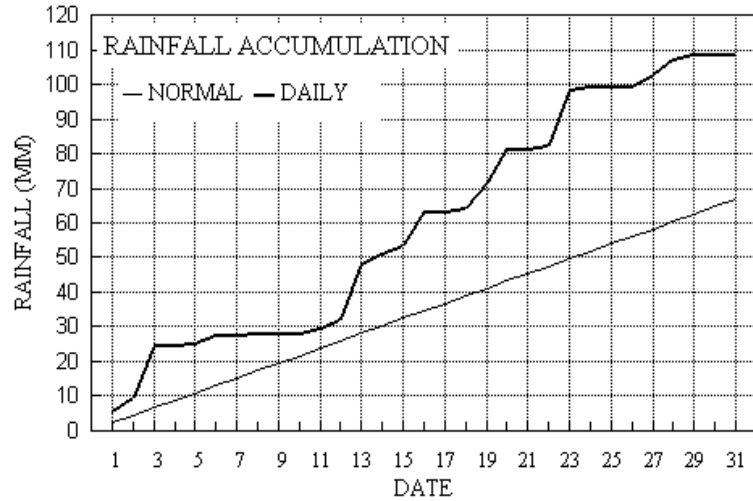
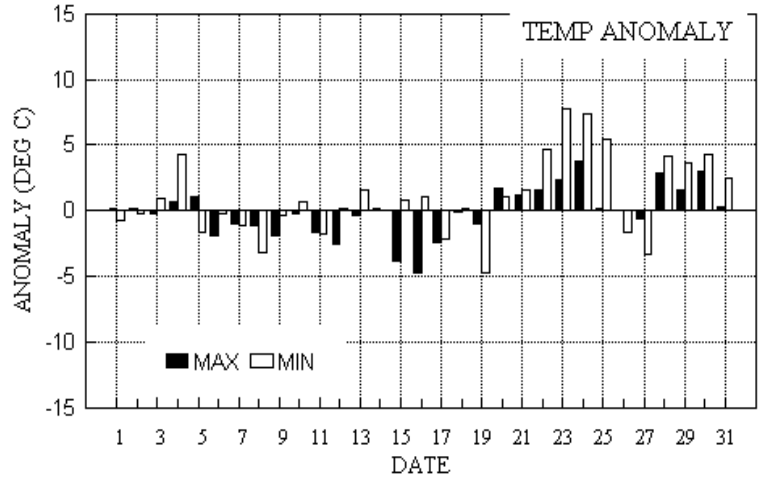
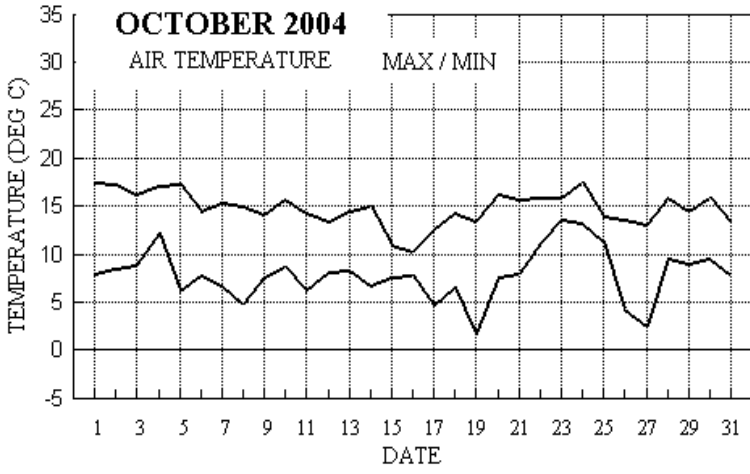
**Sunshine Below Normal.**

**Temperature.** This October's mild ranking for the mean temperature resulted when a lowish mean maximum only just above the median was offset by a mean minimum 9<sup>th</sup> highest in 123 years. Daily maxima showed an unusually low spread of values, and the highest maximum, 17.5°, is lowest since 1982 and ranks 7<sup>th</sup> lowest since 1903, while the lowest maximum, 10.2°, is 0.9° above the median. The lowest minimum, 1.7°, ranks 10<sup>th</sup> highest in 101 years, while the highest minimum, 13.6°, is 0.5° above the median. Ground frost was recorded on the 19<sup>th</sup>, 26<sup>th</sup> and 27<sup>th</sup>. **Rainfall.** A wet month overall, with only 9 dry days, the fewest since 1981. However, the total of 109.2 mm is only highest since 2000, and ranks 18<sup>th</sup> highest in 123 years, well below the October and all time record for a monthly total, 198.6 mm in 1960. Despite the wet nature of the month, the highest 24 hour fall of 16.4 mm is unexceptional, and is close to the median. Thunder was heard on the 20<sup>th</sup>, and small hail fell on the 6<sup>th</sup>. The rain rate reached 70 mm/hr on the 13<sup>th</sup>, at 1400 GMT. **Sunshine.** Although the first 11 days of the month contained several sunny days, the following 9 days contained only one, and the total for the month is lowest for the past 3 years. Overall there were 17 days with <3 hours, 6 with =>6 hours and 1 with =>9 hours. **Wind.** The mean wind speed of 6.8 mph is 0.4 mph above average, and highest for October since 2000. The 21<sup>st</sup> was the windiest day, mean speed 14.3 mph, but the month's highest gust of 46 mph was on the 20<sup>th</sup>. The least windy day was the 30<sup>th</sup>, mean 2.0 mph, and there were 27 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,0 NE,4 E,3 SE,3 S,4 SW,14 W,3 NW,0. **Humidity.** The mean relative humidity was 86.4 %, and the lowest value recorded was 43 % on the 10<sup>th</sup>. The mean amount of water vapour per kg of air was 7.4 g at 0900 GMT and 7.3 g at 1500 GMT. **Pressure.** The mean at 0900 GMT, 1006.9 mbar, is lowest for October since 1976, and the absolute highest, 1024.7 mbar, is lowest since 1981. **Commentary. From the 1<sup>st</sup> to the 10<sup>th</sup>:** Daily maxima were near of below normal, with anomalies of -1.9° on the 6<sup>th</sup> and 9<sup>th</sup>, and +1.0° on the 5<sup>th</sup>. Daily minima showed more variation, with anomalies of -3.2° on the 8<sup>th</sup> and +4.2° on the 4<sup>th</sup>, the 10 day mean anomalies being -0.4° and -0.2° for max and min resp. Although there were 4 dry days, 15.1 mm fell on the 3<sup>rd</sup> and the 10 day total was 130 % of normal. This was the sunniest period in the month, with a total for the 10 days of 123 % of normal. Moderate or fresh winds were SW'ly until the 7<sup>th</sup> then NE'ly. **From the 11<sup>th</sup> to the 20<sup>th</sup>:** Anomalies for daily maxima ranged from -4.7° on the 16<sup>th</sup>, the month's coldest day, to +1.7° on the 20<sup>th</sup>, while the anomalies for minima were -4.8° on the 19<sup>th</sup>, the month's coldest night, to +1.5° on the 13<sup>th</sup>, giving 10 day mean anomalies of -1.5° and -0.4° for max and min resp. Rain fell every day, with 16.4 mm on the 13<sup>th</sup>, the month's wettest day, and a 10 day total of 53.6 mm, 248 % of normal. Sunshine was scarce with 8 days having <3 hours and a 10 day total only 54 % of normal. Fresh E'ly winds on the 11<sup>th</sup> veered to moderate W'ly by the 14<sup>th</sup>, falling light on the 15<sup>th</sup>, backing S'ly on the 19<sup>th</sup> and increasing fresh on the 20<sup>th</sup>. **From the 21<sup>st</sup> to the 31<sup>st</sup>:** Generally milder in this period, anomalies for daily maxima ranging between -0.6° on the 27<sup>th</sup> to +3.8° on the 24<sup>th</sup>, the month's mildest day. For minima the anomalies ranged from -3.3° on the 27<sup>th</sup> to +7.7° on the 23<sup>rd</sup>, the month's mildest night, with 11 day mean anomalies of +1.5° and +3.3° for max/min resp. Although 16.1 mm of rain fell on the 23<sup>rd</sup>, this period was not as wet as hitherto, and there were 5 dry days, and a total of 27.5 mm, 116 % of normal. Not a great deal of sunshine, but 9.1 hours on the 21<sup>st</sup>, the month's sunniest day, helped lift the total to 91 % of normal. Strong SW'ly winds on the 21<sup>st</sup> decreased fresh on the 23<sup>rd</sup> and light on the 26<sup>th</sup>, thereafter gradually backing NE'ly and remaining light or moderate.

B.J.Burton. FRMetS.

Hon. Met. Officer to Wokingham Town Council.

# Wokingham Climatological Data



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: OCTOBER 2004

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 mean ddd ff sp	Max gust ddd gg HHhh	High hr ddd ff HH	Rain hrs
1	17.5	8.0	5.5	4.0	15.5	15.9	0.3	0.0	1018.4	0 0 0 0	0 0 0 0	0 0 0 0	213 3.6 3.8	230 20 1424	210 9 14	2.4	
2	17.4	8.6	4.3	3.5	15.1	15.9	3.4	0.0	1016.5	0 0 0 0	0 0 0 0	0 0 0 0	219 6.3 6.5	230 24 1304	240 12 13	0.9	
3	16.2	8.9	15.1	4.8	14.8	15.8	0.1	0.0	1017.4	0 0 0 0	0 0 0 0	0 0 0 0	198 6.5 6.6	210 24 2026	200 13 20	10.2	
4	17.1	12.2	tr	11.4	15.0	15.8	6.3	0.0	1005.4	0 0 0 0	0 0 0 0	0 0 0 0	225 6.6 7.4	210 32 0720	210 16 07	0.0	
5	17.4	6.3	0.6	0.9	14.7	15.7	3.6	0.0	1009.1	0 0 0 0	0 0 0 0	0 0 0 0	217 6.6 6.8	240 25 1337	230 13 14	0.3	
6	14.5	7.8	2.4	2.8	14.3	15.6	7.6	0.0	1012.9	0 0 0 0	0 0 1 0	0 0 0 0	232 6.5 6.7	260 29 1134	230 11 08	1.0	
7	15.4	6.8	0.0	1.9	13.9	15.5	8.5	0.0	1017.0	0 0 0 0	0 0 0 0	0 0 0 0	236 3.8 4.0	240 17 0931	240 8 09	0.0	
8	15.0	4.8	0.2	0.2	13.6	15.4	5.4	0.0	1019.4	0 0 0 0	0 0 0 0	0 0 0 0	49 3.5 3.7	50 18 1617	50 8 16	0.2	
9	14.2	7.6	0.0	3.9	13.4	15.3	2.7	0.0	1020.3	0 0 0 0	0 0 0 0	0 0 0 0	65 7.0 7.1	70 25 1212	70 11 10	0.0	
10	15.8	8.7	0.0	7.0	13.1	15.2	5.3	0.0	1015.0	0 0 0 0	0 0 0 0	0 0 0 0	81 8.3 8.5	90 33 1143	90 14 11	0.0	
11	14.4	6.2	1.5	2.3	13.0	15.0	5.4	0.0	1015.4	0 0 0 0	0 0 0 0	0 0 0 0	78 6.9 7.0	90 24 1052	80 13 10	2.3	
12	13.5	8.2	2.3	5.2	12.8	14.9	0.0	0.0	1009.1	0 0 0 0	0 0 0 0	0 0 0 0	110 3.2 6.6	130 21 1605	200 9 19	4.0	
13	14.5	8.3	16.4	4.4	13.0	14.8	2.3	0.0	1006.6	0 0 0 0	0 0 0 0	0 0 0 0	182 3.5 3.9	170 20 1042	160 8 10	7.8	
14	15.0	6.8	2.8	3.1	12.7	14.6	2.2	0.0	994.3	0 0 0 0	0 0 0 0	0 0 0 0	249 1.9 4.6	270 16 0939	280 8 08	3.5	
15	11.0	7.6	2.7	5.3	12.7	14.5	0.1	0.0	995.2	0 0 0 0	0 0 0 0	0 0 0 0	260 3.1 3.4	300 10 1158	300 5 11	3.9	
16	10.2	7.8	9.5	6.8	12.7	14.5	0.1	0.0	995.8	0 0 0 0	0 0 0 0	0 0 0 0	234 2.3 2.4	240 8 0250	240 4 01	4.7	
17	12.5	4.6	0.3	1.1	12.2	14.4	0.9	0.0	1001.6	0 0 0 0	0 0 0 0	0 0 0 0	274 4.2 4.4	280 18 1542	290 8 13	0.1	
18	14.4	6.6	0.8	3.2	12.2	14.3	6.9	0.0	1008.7	0 0 0 0	0 0 0 0	0 0 0 0	247 2.6 2.9	250 11 1418	260 5 13	1.2	
19	13.5	1.7	7.2	-1.6	11.7	14.1	0.1	0.0	1003.1	0 1 0 0	0 0 0 0	0 0 0 0	150 1.8 2.4	160 16 1158	170 7 12	6.7	
20	16.2	7.6	10.1	8.4	12.0	14.0	0.5	0.0	990.0	0 0 0 0	1 0 0 0	0 0 0 0	180 4.1 5.9	230 40 2332	230 14 23	3.4	
21	15.7	8.0	tr	5.1	12.4	13.9	9.1	0.0	1003.1	0 0 0 0	0 0 0 0	0 0 0 0	221 12.1 12.4	250 38 0118	250 17 00	0.0	
22	16.0	11.1	0.7	7.0	12.2	13.9	0.6	0.0	1008.3	0 0 0 0	0 0 0 0	0 0 0 0	207 11.7 11.8	210 34 1156	210 16 11	1.2	
23	16.0	13.6	16.1	12.9	12.6	13.8	0.1	0.0	1004.4	0 0 0 0	0 0 0 0	0 0 0 0	210 10.4 10.5	210 30 0028	210 13 01	10.1	
24	17.5	13.2	1.3	10.4	13.1	13.8	2.1	0.0	1002.4	0 0 0 0	0 0 0 0	0 0 0 0	208 8.9 9.0	240 31 2025	210 13 23	0.8	
25	13.9	11.3	tr	8.6	13.2	13.8	7.5	0.0	1002.0	0 0 0 0	0 0 0 0	0 0 0 0	234 10.1 10.4	230 36 0817	220 14 07	0.0	
26	13.7	4.3	0.0	-1.0	12.5	13.8	5.9	0.0	1012.7	0 1 0 0	0 0 0 0	0 0 0 0	213 2.1 2.3	210 12 1226	220 7 12	0.0	
27	13.1	2.6	3.5	-1.4	11.9	13.7	0.0	0.0	1000.8	0 1 0 0	0 0 0 0	0 0 0 0	121 6.5 6.6	130 24 1642	120 10 16	3.0	
28	15.9	9.5	4.0	6.6	12.0	13.7	4.3	0.0	991.6	0 0 0 0	0 0 0 0	0 0 0 0	159 5.1 5.5	190 22 1058	180 9 10	5.0	
29	14.5	9.0	1.9	3.8	12.0	13.6	0.2	0.0	991.3	0 0 0 0	0 0 0 0	0 0 0 0	139 4.4 4.7	140 18 0103	150 7 14	1.0	
30	16.0	9.6	0.0	4.5	12.1	13.5	2.5	0.0	1005.3	0 0 0 0	0 0 0 0	0 0 0 0	62 1.5 1.7	90 7 1307	40 3 18	0.0	
31	13.3	7.9	0.0	3.2	12.1	13.5	3.3	0.0	1021.6	0 0 0 0	0 0 0 0	0 0 0 0	39 2.6 2.8	70 14 1117	60 6 11	0.0	
Total			109.2				97.3	0.0									73.7
Mean	14.9	7.9		4.5	13.0	14.6	3.14	0.0	1006.9					198 3.0 5.9			
Anom	+0.1	+1.2	163%		+0.2	+0.2	89%		-8.3								
Daily mean		11.4															
Anom		+0.6															

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.
- Anom = Departure from 1971-2000 climatological average.
- All temperatures in degrees Celsius.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for OCTOBER 2004

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	hCr	Cl	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	57	7	18	02	03	12.0	11.4	96	8.4	1018.4	0 003	10	4	1	7	5	6	/	/	81635	87640					1		
2	72	7	20	08	14	12.6	10.1	85	7.7	1016.5	1 002	15	2	2	7	8	5	/	1	81825	86650					2	2Sc35 /Ci75 jpSW	
3	68	8	18	03	06	12.5	11.8	95	8.6	1017.4	8 001	02	2	2	1	8	4	7	7	81815	85364	88275				3	1Sc40 1Ac62 COTRA Cu fra	
4	65	8	24	07	31	12.4	10.5	88	8.0	1005.4	3 030	21	6	2	8	8	4	/	/	85712	88635					4	1Cu18 Strong CF 0748	
5	82	6	18	03	07	12.4	10.7	89	8.1	1009.1	7 001	03	8	2	1	8	5	7	1	81825	84365	85075				5	1Sc40 1Ac63	
6	83	1	23	12	21	12.1	8.0	76	6.7	1012.9	2 015	02	0	0	1	8	5	3	3	81820						6	1Sc40 1Ac62 1Ci72 Cu med Cb top N	
7	84	1	23	07	12	10.5	7.2	80	6.3	1017.0	3 017	03	0	0	1	8	4	0	1	81815						7	1Sc45 1Ci78 Cu fra	
8	70	7	02	03	06	10.9	8.7	86	7.0	1019.4	2 014	03	2	2	6	8	6	6	1	82830	83630					8	2Ac58 3Ci75 COTRA Cu med	
9	86	7	06	07	15	10.7	7.6	81	6.5	1020.3	3 002	03	2	2	5	5	6	3	1	85635	86078					9	1Ac62 COTRA	
10	82	7	06	06	12	11.0	7.3	78	6.3	1015.0	0 002	14	2	2	7	0	9	8	1	82360	86363					10	/Ci72 Ac cas vir	
11	62	3	08	11	22	11.5	6.2	70	5.9	1015.4	2 004	03	1	1	1	1	5	3	1	81822						11	2Ac63 1Ci75 Cu hum	
12	30	8	07	07	13	11.0	10.8	99	8.1	1009.1	7 007	51	6	5	8	7	2	/	/	83705	87707	88710				12		
13	59	6	16	06	12	12.6	11.3	92	8.4	1006.6	8 013	05	2	2	1	6	3	3	2	81706	86075					13	2Ac65 COTRA	
14	63	7	28	09	16	9.6	8.4	92	7.0	994.3	3 020	21	6	2	7	5	3	/	/	85708	87625					14	/Sc40	
15	62	8	30	04	06	8.6	7.3	92	6.5	995.2	2 007	21	6	5	8	5	3	/	/	83707	87709	88615				15		
16	70	7	23	03	07	8.7	8.1	96	6.8	995.8	3 005	21	6	2	7	5	3	/	/	83708	86612	87635				16		
17	80	7	28	06	15	10.7	7.6	92	6.6	1001.6	3 011	03	2	2	8	5	3	/	/	81708	87615	87650				17		
18	81	1	24	04	08	9.3	7.2	87	6.3	1008.7	1 012	01	1	1	1	8	4	0	2	81815						18	1Sc40 1Sc50 1Ci75 Cu fra	
19	56	8	08	02	04	7.6	7.6	100	6.6	1003.1	8 006	60	6	2	8	5	5	/	/	81628	88635					19		
20	35	8	14	02	06	13.4	13.2	99	9.7	990.0	6 025	51	6	5	8	7	2	/	/	81705	87707	88709				20		
21	82	1	21	11	25	11.1	6.2	72	6.0	1003.1	1 025	15	8	1	1	9	6	6	3	81930						21	1Ac62 1Ci72 Rainbow	
22	78	7	20	12	27	14.5	10.9	79	8.2	1008.3	7 003	02	2	2	5	5	5	3	1	85620	83365	87075				22	COTRA	
23	80	8	22	08	18	15.3	13.0	86	9.4	1004.4	3 012	03	6	2	7	5	4	1	/	82712	83618	87640				23	8As65	
24	63	7	22	05	11	14.7	12.5	87	9.2	1002.4	1 010	02	2	2	6	5	4	7	/	81615	86620	86367				24		
25	81	3	23	14	36	12.0	7.5	74	6.5	1002.0	3 035	03	1	1	3	8	5	0	0	81825	83645					25	Cu hum	
26	78	3	22	03	08	9.5	7.2	85	6.3	1012.7	1 009	14	1	1	1	5	6	0	1	81640						26	1Sc56 2Ci78 COTRA Sc vir	
27	62	8	12	08	16	10.0	9.0	93	7.2	1000.8	7 020	03	2	2	1	8	4	2	7	81710	86465	88270				27	1Cu18 1Sc35 COTRA Cu med	
28	63	2	18	07	13	13.1	11.0	87	8.4	991.6	2 018	02	8	1	2	2	4	0	0	82818						28	Cu con W	
29	72	7	15	06	15	12.0	10.7	91	8.2	991.3	2 016	60	6	2	7	5	4	/	/	81712	83620	86635				29	7Sc50	
30	57	7	07	02	05	11.4	11.0	97	8.3	1005.3	2 034	21	6	1	3	5	4	7	1	81715	83640	87358				30	1Sc30 /Ci75 COTRA jpSW	
31	56	4	05	04	08	10.9	9.3	90	7.2	1021.6	2 016	05	1	1	4	6	3	0	0	84706						31		

Mean vis = 22.4 km  
 Mean cloud = 5.8 72%  
 Mean wind speed = 6.2 kn  
 Mean gust = 13 kn  
 Mean TT = 11.4 C  
 Mean TdTd = 9.3 C  
 Mean RH = 87.5%  
 Mean r = 7.4 g/kg  
 Mean PPP = 1006.9 mbar

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for OCTOBER 2004

Date	VV	N	dd	ff	gg	TT	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	N	Ch	shs	N	Ch	shs	Date	Remarks
1	75	7	21	07	20	14.9	10.1	73	7.7	1015.4	6	015	80	8	2	7	8	5	7	/	81825	83635	86645	1	/Ac60		
2	30	6	24	05	19	13.5	12.0	91	8.8	1014.7	5	005	82	8	2	6	9	5	6	/	86925			2	1Sc40 1Ac57		
3	61	8	20	08	22	14.3	12.7	90	9.1	1014.9	7	017	61	6	6	2	7	4	2	/	82712	88558		3			
4	84	1	24	07	14	16.8	7.0	52	6.3	1009.1	1	016	02	0	0	1	1	6	0	1		81845			4	1Ci80 COTRA Cu hum	
5	80	3	22	13	23	16.9	8.6	58	7.0	1007.3	6	009	15	8	1	2	9	5	3	3		81928			5	2Cu35 1Sc45 1Ac62 1Ci72 jpNW	
6	65	3	23	10	20	14.0	8.2	68	6.8	1013.0	5	002	15	8	1	2	9	5	6	3		82925			6	1Cu35 1Sc45 1Ac60 1Ci72 jpNW	
7	86	7	26	05	11	14.2	6.3	59	5.9	1017.0	6	005	03	1	1	5	8	6	3	1		82835	84650	85075	7	2Ac58 Cu med	
8	81	7	05	07	16	14.5	7.2	62	6.3	1019.3	8	002	02	2	2	2	2	6	6	1		82835	87078		8	1Ac58 COTRA	
9	84	6	07	09	18	13.2	4.5	56	5.2	1017.0	8	017	02	2	2	1	8	6	0	2		81837	85073		9	1Sc40	
10	82	6	09	12	27	15.2	4.0	47	5.0	1014.0	7	003	02	2	2	2	8	6	3	1		81842	86075		10	1Sc50 2Ac58 Cu hum Absent vv&cld est	
11	68	7	07	08	19	12.6	7.0	69	6.2	1013.9	6	010	02	2	2	7	5	5	3	/		87625			11	/Ac63 Crepuscular rays	
12	50	8	11	07	16	12.9	12.4	97	9.1	1006.1	7	020	51	6	5	8	5	3	/	/		82708	87612	88615	12		
13	82	6	21	06	18	12.1	11.0	93	8.3	1002.7	6	018	60	8	2	1	8	4	7	8		81812	85358	85272	13	1Sc56 Cu med Cs NS edge to W	
14	62	6	20	08	14	10.4	7.9	85	6.8	995.5	5	004	81	8	2	5	9	5	6	3		84920			14	1Cu28 1Sc50 2Ac60 2Ci72 Rash mod	
15	72	7	23	04	07	10.9	8.9	87	7.2	995.3	0	000	25	8	2	4	8	4	3	1		83815	86075		15	2Sc50 2Ac60 COTRA Cu med jpNW	
16	59	7	20	02	05	8.8	8.0	95	6.8	997.1	1	008	80	8	2	6	9	4	6	3		85915			16	1Cu20 2Sc50 2Ac60 /Ci70 vv 25kN	
17	75	6	27	07	14	12.1	7.8	75	6.7	1003.1	1	007	15	8	2	6	8	5	0	0		82822	85656		17	Cu Med jpW	
18	84	5	28	04	11	12.9	5.6	61	5.7	1008.1	6	004	02	1	1	5	8	6	0	0		81830	85656		18	Cu med	
19	61	8	17	05	10	13.3	12.2	93	9.0	1001.2	6	003	60	6	2	8	5	3	/	/		81708	87710	88615	19		
20	70	7	21	09	21	15.3	13.7	90	10.0	990.3	2	009	01	6	2	7	5	4	/	/		87615	87625		20		
21	81	1	21	14	34	14.6	8.5	67	7.0	1004.5	3	009	03	0	0	1	8	6	0	3		81830			21	1Sc50 1Ci72 Cu med Cb top SE-SW	
22	75	7	21	14	28	15.6	10.9	74	8.2	1006.3	8	010	03	2	2	4	8	5	3	1		83825	83366	87075	22	2Sc40 Cu med	
23	30	8	22	11	24	15.4	14.5	95	10.5	1002.5	6	009	65	6	6	7	7	3	2	/		81708	87710	88518	23		
24	75	7	20	09	19	16.6	12.3	76	9.0	999.9	7	016	03	2	2	7	8	5	/	2		86822			24	2Sc56 /Ci75 Cu med	
25	81	2	26	12	22	12.9	6.7	66	6.1	1006.2	2	018	15	8	1	2	9	5	6	0		81925			25	1Cu30 2Sc56 1Ac58 jpNW&S	
26	84	5	22	03	09	12.9	4.7	57	5.3	1011.9	8	006	02	1	1	3	8	6	7	1		81833	83358		26	1Sc56 1Ac64 2Ac67 3Ci75 COTRA Cu med	
27	62	8	13	08	20	11.1	8.3	83	6.9	993.9	7	041	60	6	2	5	8	4	2	/		81815	85650	88558	27	1Sc25 Cu hum Cu fra	
28	72	3	15	08	17	15.3	10.0	70	7.8	990.6	8	011	02	8	1	2	2	5	3	1		82825			28	1Ac62 1Ci75 Cu med	
29	80	7	15	05	17	13.8	9.7	77	7.7	993.5	3	007	15	8	2	3	8	5	7	1		81825	83635	87078	29	1Ac63 COTRA jpW	
30	73	3	04	01	02	14.8	11.9	83	8.7	1009.5	2	020	01	1	1	3	8	5	0	1		82820			30	1Sc45 1Ci78 Cu con	
31	72	6	01	04	09	12.9	8.3	74	6.7	1022.7	5	001	02	2	2	5	5	5	0	1		85620	83075		31		

Mean vis = 26.2 km  
 Mean cloud = 5.7 72%  
 Mean wind speed = 7.5 kn  
 Mean gust = 17 kn  
 Mean TT = 13.7 C  
 Mean TdDd = 9.1 C  
 Mean RH = 74.9 %  
 Mean r = 7.3 g/kg  
 Mean PPP = 1006.3 mbar

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  
 TdDd = 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 Psychrometer  
 Daily means and extremes, 00-24 GMT  
 OCTOBER 2004

Date	Mean			Max			Min			Mean			Max			Min			Missing RH N >0	Number of minutes RH in given ranges							
	TT	TT	Time	TT	Time	RH	RH	Time	RH	Time	RH	Time	RH	Time	RH	Time	RH	Time		RH	0-20	20-40	40-60	60-80	80-90	90-95	95-98
01	12.5	17.6	13:48	8.8	05:58	88.7	99.2	07:18	62.1	14:14									0	0	0	404	131	78	647	180	
02	12.3	17.4	13:11	9.0	03:45	87.1	96.8	00:05	60.8	13:14									0	0	0	302	434	456	248	0	
03	12.9	15.1	12:11	9.4	06:07	93.3	97.0	05:06	86.8	10:02									0	0	0	0	233	717	490	0	
04	13.3	17.2	14:16	7.5	23:58	83.0	97.0	05:12	46.3	13:58									0	0	279	140	208	401	412	0	
05	11.8	17.4	13:46	7.1	01:10	81.8	94.8	00:00	55.6	13:56									0	0	99	235	1022	84	0	0	
06	10.7	14.6	12:57	8.1	06:03	83.2	93.0	21:42	64.4	10:23									0	0	0	490	578	372	0	0	
07	10.4	15.4	12:26	7.1	03:38	80.0	94.7	04:00	54.3	15:34									0	0	303	260	345	532	0	0	
08	9.9	15.0	14:33	5.2	05:03	84.3	97.9	05:53	55.5	14:33									0	0	56	404	304	271	405	0	
09	10.3	14.2	13:46	7.4	02:53	77.6	95.5	03:20	55.2	15:07									0	0	176	579	249	309	127	0	
10	11.6	15.8	12:40	8.4	05:51	67.0	82.3	05:51	43.4	12:53									0	0	388	882	170	0	0	0	
11	10.3	14.4	12:14	6.6	04:46	77.2	94.0	06:42	55.9	11:35	29								0	0	82	743	319	267	0	0	
12	11.5	13.6	18:01	8.9	00:00	93.8	98.4	13:04	78.8	04:34									0	0	0	38	272	79	811	240	
13	11.1	14.5	10:39	8.1	21:30	92.6	98.6	22:05	78.1	10:36									0	0	0	57	144	896	323	20	
14	9.7	14.7	13:56	8.3	23:55	93.0	99.3	07:16	63.2	13:43									0	0	0	130	145	193	601	371	
15	8.7	11.0	14:56	7.6	05:59	94.8	98.5	07:45	85.5	16:00									0	0	0	0	148	489	774	29	
16	8.0	10.1	12:26	5.5	23:41	96.7	100.0	22:18	89.6	12:16									0	0	0	0	6	239	871	324	
17	9.2	12.4	12:46	5.7	00:08	90.0	99.8	01:20	71.1	15:23									0	0	0	253	565	48	96	478	
18	9.2	14.4	13:54	4.3	23:55	83.7	96.1	23:46	58.2	13:53									0	0	32	400	268	624	116	0	
19	9.4	13.4	12:45	2.4	03:51	95.9	98.9	01:40	89.5	12:50									0	0	0	0	21	336	1039	44	
20	14.1	16.2	11:56	12.0	23:58	96.0	98.9	09:15	86.5	15:43									0	0	0	0	111	258	572	499	
21	11.7	15.8	13:28	8.0	03:06	72.7	87.3	00:00	55.8	13:28									0	0	113	1141	186	0	0	0	
22	14.1	16.0	10:34	11.4	03:42	81.8	93.9	22:23	71.6	11:14									0	0	0	607	611	222	0	0	
23	15.1	16.0	02:23	14.2	21:18	92.4	96.2	13:38	84.2	03:12									0	0	0	0	360	600	480	0	
24	14.8	17.5	13:12	12.3	21:06	83.7	95.7	00:00	67.2	12:45									0	0	0	576	455	391	18	0	
25	11.3	14.0	11:32	6.7	23:59	73.4	91.2	23:59	61.5	12:19									0	0	0	1137	274	29	0	0	
26	8.9	13.7	11:51	4.6	23:56	83.3	97.3	22:15	56.5	14:50									0	0	143	345	197	522	233	0	
27	9.3	12.3	13:26	3.9	01:09	90.8	98.2	03:09	71.2	12:46									0	0	0	197	276	225	723	19	
28	12.5	15.9	11:18	9.4	19:12	87.1	97.2	23:05	67.7	11:17									0	0	0	443	122	542	333	0	
29	12.0	14.5	13:52	9.4	00:17	88.3	97.3	00:16	76.3	14:32									0	0	0	178	483	719	60	0	
30	11.8	16.0	13:17	8.7	22:33	93.6	99.4	23:19	70.6	13:16									0	0	0	95	211	230	424	480	
31	10.4	13.3	14:18	7.8	21:49	91.0	99.6	02:11	69.8	14:44									0	0	0	186	298	406	50	500	
Mean	11.2	14.8		7.9		86.4	96.3		67.5										0.00	0.00	0.90	5.50	4.92	5.66	5.30	1.71	
Hi	15.1	17.6		14.2		96.7	100.0		89.6	Tot	29								0	0	1671	10222	9146	10535	9853	3184	
Lo	8.0	10.1		2.4		67.0	82.3		43.4																		

Note. Aspirated Psychrometer exposed near house. Winds with a component from 030 deg can produce a distorted diurnal temperature profile. Compensation for this is made in post processing, and maxima are constrained to be within 0.2C of screen values about 500m away. Minima on radiation nights can also be about 1C higher than screen values, due partly to topography. No compensation is made for this. Humidity readings are similar to screen derived values under most conditions and in most instances can be considered more accurate due to controlled aspiration. The psychrometer is of experimental design, and logs one minute average values of temp and RH.