

# 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 2005

Temperature (°C / °F)	Anomaly		Rank in past 124 years				
Mean maximum	17.4	63.3	+2.6	5 <sup>th</sup> highest			
Mean minimum	10.1	50.2	+3.4	2 <sup>nd</sup> highest			
Daily mean	13.7	56.7	+2.9	2 <sup>nd</sup> highest			
Highest maximum	22.1	71.8	on 10 <sup>th</sup>	Lowest maximum	13.4	56.1	on 18 <sup>th</sup>
Highest minimum	16.0	60.8	on 12 <sup>th</sup>	Lowest minimum	3.4	38.1	on 3 <sup>rd</sup>
Mean grass minimum	6.8	44.2		Lowest grass minimum	0.3	32.5	on 3 <sup>rd</sup>
Mean earth @30 cm	14.5	58.1	+1.7	Earth @100 cm	15.3	59.5	+0.9
Frost duration (hrs)	0.0			Rain duration (hrs)	55.9		
Rainfall total (mm / in)	68.0	2.68	102 %	56 <sup>th</sup> highest			
Highest daily fall	17.0	0.67	on 24 <sup>th</sup>				
Number of: Dry days (<0.2mm)	15	Wet days (>0.9mm)	13	days ≥5mm	6		
Sunshine total (hrs) 98.9	Daily mean 3.19	94 %		Sunniest day 9.0		on 19 <sup>th</sup>	
N <sup>o</sup> days with: Air frost 0	Ground frost 0	Snow falling 0	Snow lying 0	Fog @09 2	Nil sun 4		
Thunder 2	Hail ≥5mm 0	Small hail/ice 0					
Air pressure MSL : Mean @09 GMT (mbar/in)	1015.1	-0.1	29.98				
Absolute highest	1032.4		30.49	on 3 <sup>rd</sup>			
Absolute lowest	992.8		29.32	on 21 <sup>st</sup>			

Anomaly = departure from 1971 to 2000 average (degrees C, percent and mbar).

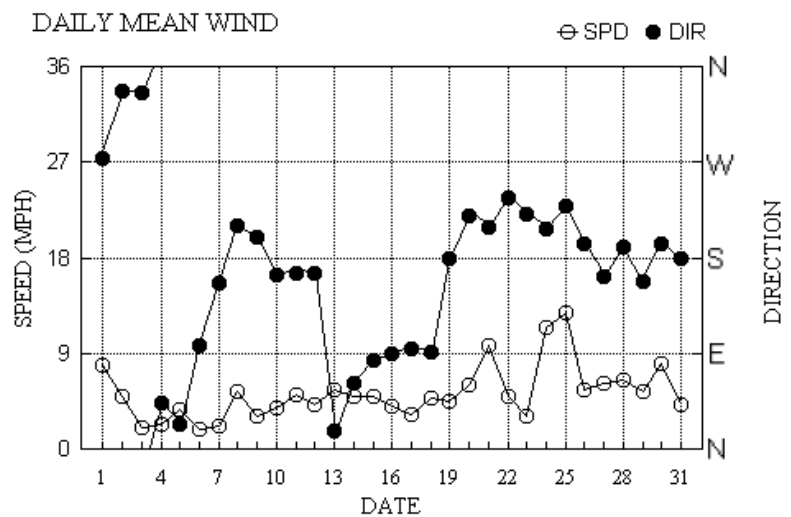
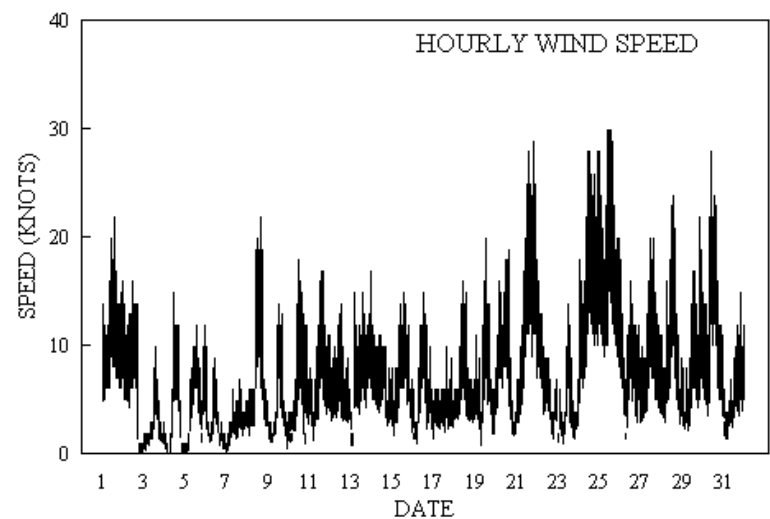
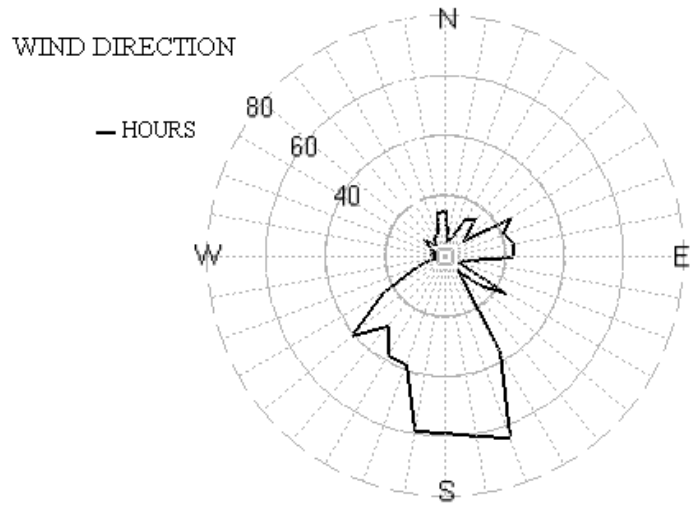
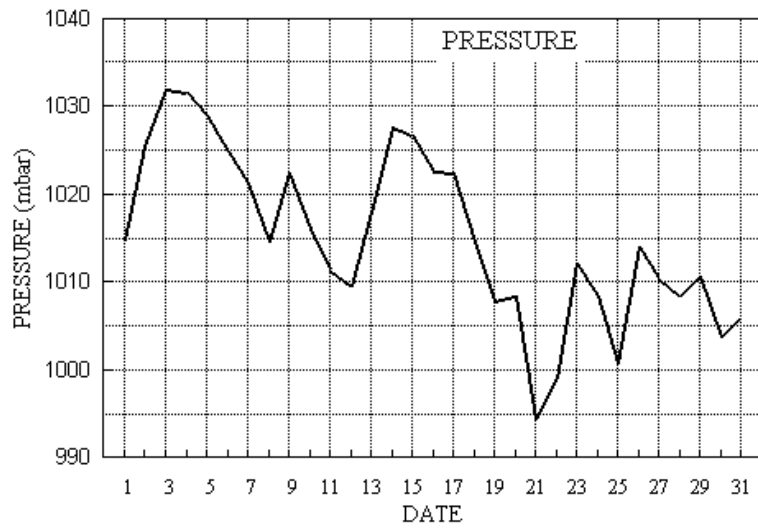
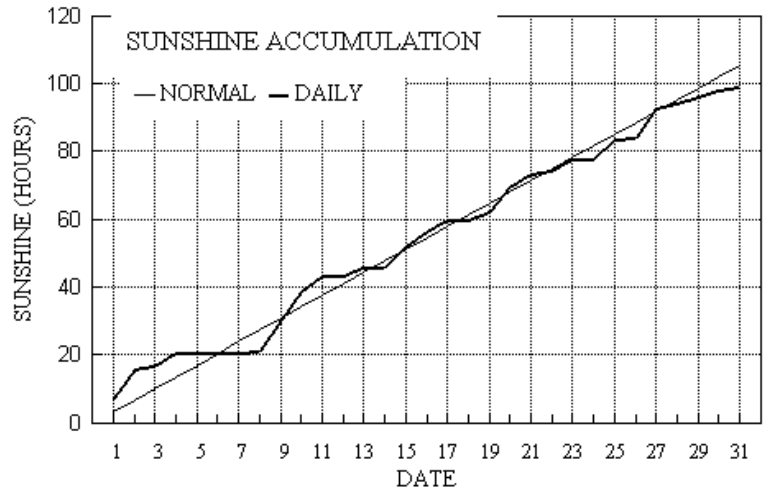
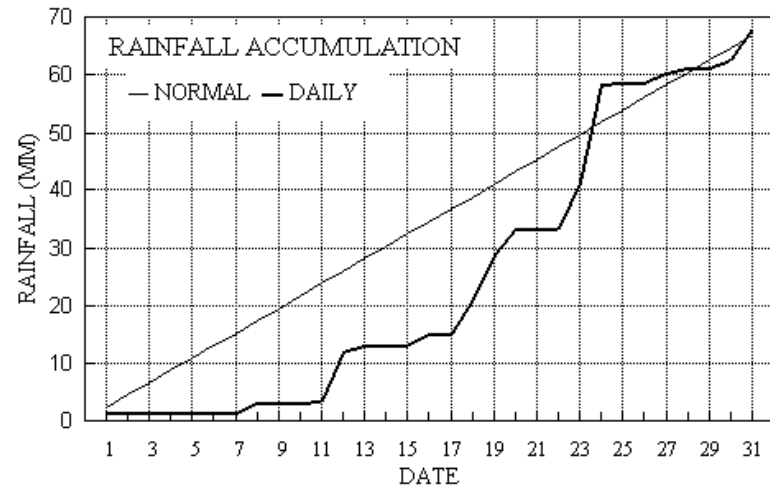
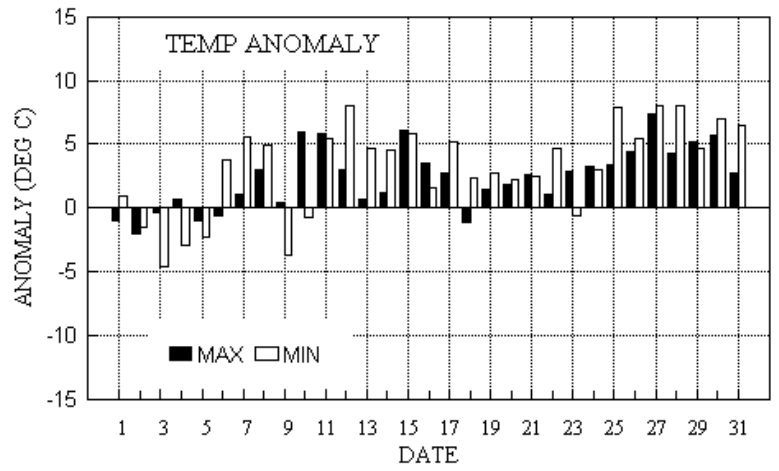
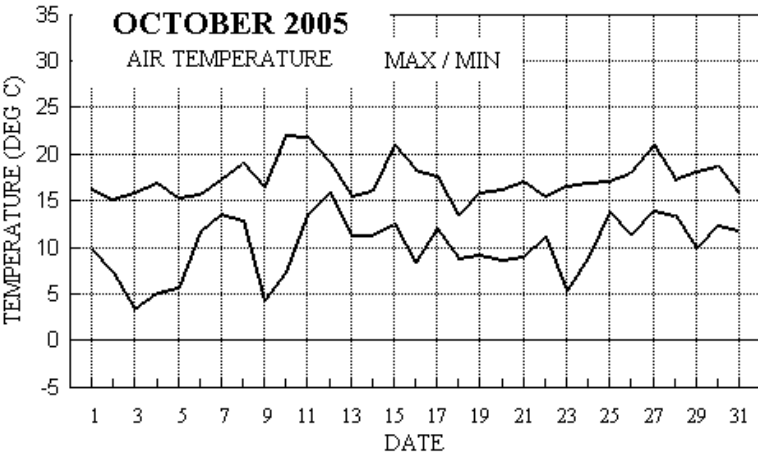
Notes: **Very Mild with Near Normal Rainfall and Below Normal Sunshine.**

**Temperature.** An exceptionally mild October, with both the mean minimum and daily mean 2<sup>nd</sup> highest in 124 years, the latter only 0.3° below the record set in 2001. The mean maximum comes a little lower in the rankings, 5<sup>th</sup> highest, and 1.9° below the record set in 1921. The month's highest temperature, 22.1°, is well below the record 28.6° set in 1921, but is 1.9° above the median. The lowest maximum is 4.1° above its median, and is equal 2<sup>nd</sup> highest with 1945, only 0.1° below the record set in 1995. The lowest minimum, 3.4°, is 4.4° above the median and ranks 4<sup>th</sup> highest in 102 years, while the highest minimum, 16.0°, is equal highest with 1997 in the past 93 years, and is 2.9° above the median. For the grass minimum, both the mean and lowest are 2<sup>nd</sup> highest after 2001 in the past 26 years. Ground frost-free Octobers are quite rare, this being only the 4<sup>th</sup> such in 85 years. At the other extreme, there were 16 in the month as recently as 1992. The mean earth temperature at 30 cm depth is also 2<sup>nd</sup> highest after 2001. A maximum of 21.0° on the 27<sup>th</sup> is remarkable for so late in the month. **Rainfall.** A close to average month, though in the past 5 years only one October, 2003, has been drier, and in 2000 we had 2.3 times as much as this year. The month's highest fall, 17.0 mm, is most since 2000. The number of dry days is 1 fewer than average. The duration of measurable rain is also close to the 13 year average. Thunder was recorded on the 16<sup>th</sup> and again on the 19<sup>th</sup>, both in the afternoon. A dry spell of 6 days ended on the 7<sup>th</sup>. **Sunshine.** Although for much of the month sunshine accumulation kept fairly close to average, a dull final 4 days resulted in a total below normal. Compared with the maximum possible daily sunshine, only 5 days had >66 %, and only 8 had 50 % or more, leaving the remaining 23 days with <50 %. Overall there were 17 days with <3 hours, 7 with =>6 hours and 1 with =>9 hours. **Wind.** The mean wind speed was 5.2 mph, 1.2 mph below normal and lowest since 1997. The 25<sup>th</sup> was the windiest day, mean 12.8 mph, and the month's highest gust of 35 mph was also on that day. This is the lowest October gust in the past 18 years. The least windy day was the 6<sup>th</sup>, mean 1.8 mph, and there were 27 hours with a mean speed of 0.5 mph or less, but on the more sensitive sonic anemometer, there were 679 minutes, 11.3 hours, in this speed range. Daily mean direction/number of days: N,2 NE,3 E,5 SE,1 S,11 SW,7 W,1 NW,1. **Humidity.** The mean relative humidity was 85.3 % and the lowest for the month was 45 % on the 9<sup>th</sup>. The mean water vapour content per kg of air was 8.8 g at 0900 GMT and 8.3 g at 1500 GMT. **Commentary. From the 1<sup>st</sup> to the 10<sup>th</sup>:** Anomalies (max, min, rain, sun) +0.6°, -0.1°, 13 %, 112 %. Temperatures were near or below normal until the 9<sup>th</sup>, with an anomaly of +6.0° for the maximum on the 10<sup>th</sup>, the month's warmest day, and an anomaly of -4.6° for the minimum on the 3<sup>rd</sup>, the month's coldest night. Rain fell on the 1<sup>st</sup> and 8<sup>th</sup>, otherwise this period was dry. Reasonably sunny on the 1<sup>st</sup>, 2<sup>nd</sup>, 9<sup>th</sup> and 10<sup>th</sup>, with 81 % of the maximum possible on the 9<sup>th</sup>, the month's sunniest day, but a total of only 0.3 hours for the 4 days 5<sup>th</sup> to 8<sup>th</sup>. Mostly light winds were W'ly on 1<sup>st</sup>, veering to E'ly by 6<sup>th</sup>, and to S'ly by the 8<sup>th</sup>. **From the 11<sup>th</sup> to the 20<sup>th</sup>:** Anomalies +2.5°, +4.2°, 141 %, 91 %. Daily maxima were generally near normal, except on the 11<sup>th</sup>, anomaly +5.8°, and the 15<sup>th</sup>, anomaly +6.1°. On the 18<sup>th</sup>, the month's coldest day, the anomaly was only -1.1°. Minima were mostly above or well above normal, with an anomaly of +8.0° on the 12<sup>th</sup>, the month's mildest night. Rain fell on 7 days, with 8.5 mm on the 12<sup>th</sup> and 7.8 mm on the 19<sup>th</sup>. Reasonable sunshine on just 3 days, 3 others having nil or 0.1 hours. Mostly light winds were S'ly until the 12<sup>th</sup>, then N'ly veering E'ly by 14<sup>th</sup>, veering S'ly on 19<sup>th</sup>. **From the 21<sup>st</sup> to the 31<sup>st</sup>:** Anomalies +3.9°, +5.2°, 146 %, 79 %. Both max and min were generally above normal, with anomalies of +7.3° for the max on the 27<sup>th</sup>, and +8.0° for the min on the 27<sup>th</sup> and 28<sup>th</sup>, and +7.9° on the 25<sup>th</sup>. 4 dry days, but the period dominated by the 17.0 mm recorded on the 24<sup>th</sup>. Sunshine generally poor, with the exception of 8.6 hours on the 27<sup>th</sup>. Winds mostly moderate or fresh, SW'ly until the 25<sup>th</sup>, then S'ly.

B J Burton. FRMetS.

Hon. Met. Officer to Wokingham Town Council.

# Wokingham Climatological Data



Month: OCTOBER 2005

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	16.3	9.7	1.2	7.3	15.4	16.1	7.0	0.0	1014.8	0 0 0 0	0 0 0 0	0 0 0 0	273	6.0	6.9	300	22	1311	270	10	09	0.3	
2	15.2	7.3	0.0	5.0	14.9	16.0	8.7	0.0	1025.4	0 0 0 0	0 0 0 0	0 0 0 0	338	4.0	4.3	360	16	1132	350	7	11	0.0	
3	16.0	3.4	0.0	0.3	14.3	15.9	1.0	0.0	1031.9	0 0 0 0	0 0 0 0	0 0 0 0	335	0.8	1.7	360	10	1327	10	4	13	0.0	
4	17.0	5.1	0.0	1.2	14.3	15.8	4.1	0.0	1031.5	0 0 0 0	0 0 0 0	0 0 0 0	43	1.8	2.0	50	15	1144	50	6	11	0.0	
5	15.4	5.7	tr	2.2	14.1	15.7	0.0	0.0	1029.0	0 0 0 0	0 0 0 0	0 0 0 0	23	3.0	3.2	30	12	1333	30	6	13	0.0	
6	15.8	11.7	tr	7.0	14.2	15.6	0.0	0.0	1024.9	0 0 0 0	0 0 0 0	0 0 0 0	97	0.8	1.6	60	10	0000	130	3	10	0.0	
7	17.4	13.6	0.0	13.1	14.6	15.5	0.1	0.0	1021.3	0 0 0 0	0 0 0 0	0 0 0 0	156	1.6	1.8	180	7	1452	180	3	16	0.0	
8	19.1	12.9	1.7	8.6	15.0	15.4	0.2	0.0	1014.5	0 0 0 0	0 0 0 0	0 0 0 0	210	3.9	4.6	230	22	1533	210	9	14	2.1	
9	16.5	4.3	0.0	0.5	14.7	15.4	9.0	0.0	1022.4	0 0 0 0	0 0 0 0	0 0 0 0	200	2.7	2.7	210	14	1218	210	7	13	0.0	
10	22.1	7.2	0.0	3.1	14.3	15.4	8.2	0.0	1016.1	0 0 0 0	0 0 0 0	0 0 0 0	164	3.2	3.3	190	18	1233	180	7	12	0.0	
11	21.9	13.4	0.5	7.5	14.5	15.4	5.0	0.0	1011.3	0 0 0 0	0 0 0 0	0 0 0 0	165	4.2	4.4	150	17	1359	150	8	14	1.3	
12	19.1	16.0	8.5	13.7	15.1	15.3	0.1	0.0	1009.5	0 0 0 0	0 0 0 0	0 0 0 0	165	3.6	3.6	170	14	1223	170	5	11	9.5	
13	15.5	11.4	1.2	11.1	15.5	15.3	2.2	0.0	1017.9	0 0 0 0	0 0 0 0	0 0 0 0	17	4.1	4.8	50	17	2216	360	7	14	0.6	
14	16.1	11.3	0.0	11.4	15.2	15.3	0.0	0.0	1027.7	0 0 0 0	0 0 0 0	0 0 0 0	62	4.2	4.3	40	12	0045	50	6	00	0.0	
15	21.0	12.6	0.0	11.4	15.2	15.4	6.7	0.0	1026.6	0 0 0 0	0 0 0 0	0 0 0 0	83	4.3	4.3	90	15	1329	80	7	14	0.0	
16	18.4	8.3	1.8	4.1	15.0	15.4	4.1	0.0	1022.6	0 0 0 0	1 0 0 1	0 0 0 0	89	3.0	3.5	90	15	1229	80	8	11	1.2	
17	17.6	12.0	0.0	7.4	14.9	15.4	3.4	0.0	1022.3	0 0 0 0	0 0 0 0	0 0 0 1	95	2.3	2.8	80	10	1522	70	5	15	0.0	
18	13.4	8.9	6.0	5.2	14.8	15.3	0.1	0.0	1014.6	0 0 0 0	0 0 0 0	0 0 0 0	91	4.0	4.2	90	16	0935	90	7	09	7.2	
19	15.9	9.2	7.8	4.5	14.5	15.3	2.3	0.0	1007.9	0 0 0 0	1 0 0 0	0 0 0 0	180	3.5	3.9	240	20	1317	190	8	12	3.3	
20	16.3	8.7	4.7	4.1	14.1	15.2	7.2	0.0	1008.4	0 0 0 0	0 0 0 0	0 0 0 0	220	4.7	5.2	240	19	1412	240	9	11	1.9	
21	17.1	9.0	0.0	5.2	13.8	15.1	4.2	0.0	994.4	0 0 0 0	0 0 0 0	0 0 0 0	209	7.5	8.5	230	29	2031	230	13	20	0.0	
22	15.6	11.2	0.0	9.2	13.9	15.0	0.9	0.0	999.1	0 0 0 0	0 0 0 0	0 0 0 0	236	4.3	4.3	230	16	0248	230	8	02	0.0	
23	16.6	5.3	7.9	0.4	13.6	15.0	3.2	0.0	1012.2	0 0 0 0	0 0 0 0	0 0 0 0	221	2.3	2.7	250	14	1245	250	7	12	5.8	
24	17.0	8.9	17.0	4.7	13.5	14.9	0.0	0.0	1008.3	0 0 0 0	0 0 0 0	0 0 0 0	207	9.6	9.9	220	28	1215	220	14	12	12.9	
25	17.1	13.8	0.3	12.5	14.1	14.8	5.9	0.0	1000.8	0 0 0 0	0 0 0 0	0 0 0 0	229	10.9	11.1	240	30	1135	240	15	11	0.2	
26	18.1	11.3	tr	6.1	14.0	14.7	0.3	0.0	1014.0	0 0 0 0	0 0 0 0	0 0 0 0	194	4.5	4.9	230	18	0010	230	9	00	0.0	
27	21.0	13.9	1.8	8.8	14.1	14.7	8.6	0.0	1010.5	0 0 0 0	0 0 0 0	0 0 0 0	162	5.3	5.3	170	20	1536	170	9	15	3.3	
28	17.3	13.4	0.8	10.0	14.1	14.7	1.5	0.0	1008.4	0 0 0 0	0 0 0 0	0 0 0 0	190	5.5	5.6	210	24	1326	200	11	13	1.5	
29	18.2	10.0	tr	4.6	14.1	14.7	2.3	0.0	1010.6	0 0 0 0	0 0 0 0	0 0 0 0	158	4.5	4.7	170	22	2045	170	8	22	0.0	
30	18.7	12.4	1.5	10.7	14.4	14.7	1.5	0.0	1003.8	0 0 0 0	0 0 0 0	0 0 0 0	194	6.4	6.9	190	28	0951	190	12	10	2.2	
31	15.7	11.8	5.3	9.1	14.4	14.6	1.1	0.0	1005.9	0 0 0 0	0 0 0 0	0 0 0 0	179	3.5	3.6	200	15	2023	200	8	20	2.6	
Total			68.0				98.9	0.0						189	2.1	4.5							55.9
Mean	17.4	10.1		6.8	14.5	15.3	3.19	0.0	1015.1														
Anom	+2.6	+3.4	102%		+1.7	+0.9	94%		-0.1														
Daily mean		13.7																					
Anom		+2.9																					

Number of days with:

Air frost = 0      Ground frost = 0      Nil sun = 4  
Snow falling = 0      Snow lying = 0      Thunder = 2  
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, &lt;.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 =&gt;5mm. Ic = Hail &lt;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 2005

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	1	26	08	16	13.1	9.0	76	7.1	1014.8	2	002	03	0	0	1	8	4	0	0	81818						1	1Sc50	Cu	fra			
2	89	6	35	06	12	11.5	6.4	71	5.9	1025.4	2	027	03	1	1	4	5	6	7	1	84645						2	1Ac58	2Ac65	1Ac69	2Ci78	COTRA	
3	68	7	18	02	03	9.4	9.2	99	7.1	1031.9	1	012	02	2	2	7	5	6	/	/	87645						3						
4	65	6	03	03	05	10.7	9.1	90	7.1	1031.5	0	002	02	2	2	6	5	6	0	1	81640			86650			4	1Ci80					
5	61	8	02	04	07	12.1	11.2	94	8.1	1029.0	1	001	02	2	2	8	5	4	/	/	88615						5						
6	23	8	06	02	03	14.4	13.5	94	9.6	1024.9	1	003	50	5	2	8	6	2	/	/	82705			87708	88712		6						
7	38	8	14	03	04	14.5	12.7	89	9.1	1021.3	1	005	05	2	2	8	5	5	/	/	83615			86620	88625		7						
8	25	7	18	03	06	15.3	14.6	96	10.4	1014.5	0	001	10	2	2	6	6	4	3	1	86712			87075			8	/Ac65	COTRA				
9	61	8	20	02	03	8.9	8.5	97	6.8	1022.4	2	010	02	2	2	1	6	1	0	7	81702			83073	88278		9	COTRA	Parhelia	U/a cont, faint			
10	50	1	15	04	07	14.9	14.6	98	10.3	1016.1	7	004	10	4	1	1	6	2	0	1	81705						10	1Ci75					
11	50	7	15	03	07	17.1	16.1	94	11.5	1011.3	0	006	05	2	2	7	6	3	3	1	87707						11	/Ac65	/Ci75	COTRA			
12	59	7	17	04	12	18.0	16.5	91	11.4	1009.5	1	015	05	2	2	4	5	4	7	1	81710			84635	87075		12	3Ac65					
13	40	8	35	05	10	11.7	10.7	94	8.0	1017.9	2	030	58	6	5	8	5	2	/	/	82705			85708	88625		13						
14	61	8	07	05	11	12.7	11.2	91	8.2	1027.7	2	014	02	2	2	8	5	3	/	/	83708			88618			14						
15	30	7	10	04	12	16.1	14.2	88	10.0	1026.6	1	002	05	2	2	7	6	3	/	/	87708						15						
16	09	7	04	04	08	12.3	12.3	100	8.9	1022.6	4	000	42	4	4	7	6	0	/	/	88701						16						
17	05	9	11	03	06	13.6	13.6	100	9.6	1022.3	1	008	43	4	4	9	/	/	/	/							17						
18	61	8	08	07	14	10.4	7.7	83	6.5	1014.6	7	006	03	2	2	8	0	9	8	/	82359			85364	88466		18	2Ac	cas				
19	60	7	16	03	06	13.4	12.9	97	9.3	1007.9	0	001	15	1	1	2	9	3	7	3	81707			81920	84360		19	1Cu15	1Sc40	5Ci70	jp	E&SW	
20	86	1	24	07	12	11.5	9.3	86	7.3	1008.4	2	030	03	1	1	1	1	4	3	1	81815						20	1Ac60	1Ci75	Cu	fra		
21	80	6	21	09	17	14.4	12.2	87	9.0	994.4	6	023	25	8	6	6	8	4	/	/	81712			83818			21	3Sc35	1Sc50	Cu	med		
22	86	7	24	04	08	12.0	10.1	88	7.8	999.1	1	017	03	2	2	7	8	4	7	1	83712			85640			22	2Cu30	3Ac57	/Ci75	COTRA	Cu	med
23	56	7	19	02	04	9.1	8.9	99	7.1	1012.2	2	017	10	2	2	1	5	7	7	1	81650			83360	85365		23	2Ac57	/Ci75				
24	68	8	21	09	18	16.6	15.1	91	10.8	1008.3	1	002	61	6	2	7	8	4	2	/	81712			85815	88458		24	4Sc25					
25	65	7	23	08	21	14.0	12.0	88	8.9	1000.8	3	011	80	8	2	7	8	4	3	1	81712			83820	85630		25	1Cb18	/Ac60	/Ci75	Cu	med	
26	57	7	19	04	07	13.9	13.4	97	9.6	1014.0	2	017	10	2	2	2	5	4	0	8	82615			87280			26	COTRA	Halo	22	part		
27	65	1	16	06	13	16.4	13.8	84	9.9	1010.5	1	003	01	1	1	0	0	9	0	1	81080						27	COTRA					
28	72	7	18	05	10	13.9	13.2	95	9.5	1008.4	2	013	21	6	2	1	7	3	7	/	81708			87465			28	1Sc45	2Ac62				
29	60	3	11	04	08	12.4	12.2	99	8.9	1010.6	8	001	10	1	1	3	5	2	0	1	81705						29	1Sc18	1Ci75				
30	72	6	18	11	22	18.2	14.8	80	10.6	1003.8	6	002	03	1	1	2	5	5	8	2	82620			83365			30	1Ac62	3Ci72	1Ac	cas		
31	60	8	14	03	06	13.2	12.8	98	9.3	1005.9	7	006	21	6	2	7	5	2	2	/	81705			86625	88462		31	2Sc15					

Mean vis = 16.4 km

Mean cloud = 6.3 79%

Mean wind speed = 4.7 kn

Mean gust = 10 kn

Mean TT = 13.4 C

Mean TdTd = 12.0 C

Mean RH = 91.4 %

Mean r = 8.8 g/kg

Mean PPP = 1015.1 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

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 2005

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	h	Ch	h	NCh	h	NCh	h	NCh	h	Date	Remarks
1	80	4	29	08	17	14.0	8.5	69	6.9	1014.2	7	003	25	8	1	4	9	6	3	3	81930								1	2Cu30 2Sc50 1Ac66 1Ci68 jp NW, E-S vv70k ex p
2	84	3	34	07	14	14.2	4.2	51	5.1	1026.7	3	003	01	1	1	1	6	3	1	81840	83363							2	1Ci80 COTRA Cu hum	
3	80	7	35	04	08	14.5	6.5	59	5.9	1031.4	6	003	02	2	2	5	8	6	0	1	81838	85648	86078				3	COTRA Cu hum		
4	81	4	04	06	12	16.7	5.6	48	5.5	1029.6	8	015	01	1	1	1	8	6	0	1	81840	83080					4	1Sc45 1Sc56 COTRA Cu hum		
5	58	8	02	05	10	15.1	12.4	84	8.9	1026.7	7	010	05	2	2	8	5	4	/	/	82713	88615					5			
6	59	8	24	01	04	15.6	12.9	84	9.2	1023.4	7	010	05	5	2	8	5	3	/	/	82708	86612	88615				6			
7	56	7	17	03	07	17.3	12.1	71	8.8	1017.6	7	019	05	2	2	7	8	5	/	/	81820	87650					7	2Sc40		
8	70	8	22	09	19	17.8	10.6	63	8.0	1013.4	6	001	15	2	2	7	8	6	7	8	81830	83640	86650				8	/Ac62 /Cs75 Cu hum jp W		
9	82	7	21	04	12	15.2	6.6	57	6.0	1020.4	7	010	03	2	2	3	4	6	0	1	81840	83645	87075				9	COTRA		
10	68	6	16	05	15	20.8	10.8	53	8.1	1013.0	7	014	02	2	2	1	0	9	7	1	81362	86078					10	1Ac66 COTRA Cz arc and parhelia		
11	65	6	15	07	16	20.7	12.8	61	9.3	1008.8	7	011	03	1	1	5	0	9	7	1	81364	85366					11	4Ci75 COTRA		
12	56	8	15	04	07	17.2	16.5	96	11.8	1009.6	0	000	63	6	2	7	7	3	2	/	83706	86709	88550				12			
13	80	7	35	07	15	15.0	9.6	70	7.4	1020.6	3	014	02	2	2	5	8	5	3	1	81825	85635					13	2Ac60 /Ci75		
14	75	8	06	06	10	15.4	11.9	80	8.6	1026.8	6	007	02	2	2	8	5	4	/	/	84618	88625					14			
15	50	2	07	07	14	20.1	11.5	58	8.4	1023.9	6	015	05	0	0	0	0	9	0	1	82080						15	COTRA		
16	59	7	11	05	11	17.1	11.2	68	8.3	1020.1	5	005	05	1	1	7	0	9	8	/	85359	87365					16	Absent Vis&cld est		
17	60	2	06	03	08	17.5	12.3	72	8.9	1020.2	8	012	05	1	1	1	2	4	3	1	81818						17	1Ac65 2Ci78 COTRA Cu med		
18	61	7	11	04	09	12.6	8.4	76	6.9	1012.9	7	010	02	2	2	7	0	9	7	/	81360	86364	87468				18			
19	60	7	20	08	14	12.0	10.9	93	8.2	1006.5	6	006	80	9	8	6	9	5	6	3	85925	83070					19	1Cu25 1Ac58 Thunder 1326-39		
20	89	5	23	06	19	14.9	7.0	59	6.3	1007.9	8	008	03	1	1	1	8	6	0	1	81838	85080					20	1Sc50 COTRA Cu med Halo 22 part		
21	81	5	22	11	26	15.5	9.8	69	7.7	993.6	7	003	03	1	1	3	8	6	7	0	82835	83358					21	1Sc50 Cu med		
22	82	7	25	03	08	15.0	10.7	75	8.1	1001.1	2	007	15	2	2	3	8	5	6	1	81825	83656	87075				22	2Ac60 COTRA Cu con jpSW Ua cont&parhelion		
23	82	7	26	03	12	14.3	10.9	80	8.1	1013.9	2	006	25	8	2	5	8	5	3	1	81825	85656	87075				23	2Ac65 COTRA Cu med jpNW Parhelion		
24	40	8	22	13	26	15.8	14.8	94	10.6	1006.0	6	016	51	6	5	7	7	3	2	/	82708	87712	88525				24			
25	83	6	23	12	29	16.7	10.5	67	8.0	1004.1	1	018	02	1	1	3	8	6	0	1	83835	84078					25	1Sc50 COTRA		
26	75	8	20	06	13	17.9	15.7	87	11.2	1013.2	6	005	50	5	2	8	5	4	/	/	86612	88620					26			
27	82	1	16	08	18	20.2	13.2	64	9.6	1007.2	6	017	02	0	0	0	0	9	0	1	81080						27	Absent vv&cld est		
28	70	7	21	10	21	17.0	12.1	73	8.9	1009.3	3	002	14	2	2	2	8	5	7	2	82825	85362					28	1Sc40 4Ci72 Cu hum Ac vir		
29	70	7	17	07	16	16.8	13.8	83	9.9	1007.7	6	011	02	2	2	7	8	4	3	1	85815	84622					29	/Ac65 /Ci75 Cu hum		
30	72	6	22	09	23	17.6	14.5	82	10.4	1004.6	3	009	02	8	2	4	8	4	3	1	83818						30	2Sc35 2Ac65 1Ci72 Cu med		
31	77	6	19	05	10	15.5	12.8	84	9.3	1003.8	7	015	03	2	2	4	2	4	3	2	84814	85075					31	1Ac68 2Cs72 Cu med		

Mean vis = 24.5 km

Mean cloud = 6.1 76%

Mean wind speed = 6.3 kn

Mean gust = 14 kn

Mean TT = 16.3 C

Mean TdTd = 11.0 C

Mean RH = 71.9 %

Mean r = 8.3 g/kg

Mean PPP = 1014.1 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

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 Psychrometer  
 Daily means and extremes, 00-24 GMT  
 OCTOBER 2005

Date	Mean			Min			Max			Missing			Number of minutes RH in given ranges							
	TT	TT	Time	TT	Time	RH	TT	Time	RH	TT	Time	RH	N >0	0-20	20-40	40-60	60-80	80-90	90-95	95-98
01	12.4	16.3	12:35	9.6	06:37	76.3	93.3	04:58	52.7	13:04			0	0	122	703	409	206	0	0
02	10.5	15.2	13:44	6.1	23:43	74.0	93.8	23:40	45.8	16:11			0	0	362	349	549	180	0	0
03	10.6	16.0	13:28	4.9	02:52	82.3	97.2	03:56	49.8	13:32			0	0	170	397	272	222	379	0
04	11.4	17.0	15:13	6.5	05:59	78.9	97.3	06:37	46.1	14:15			0	0	315	265	282	307	271	0
05	12.1	15.6	15:51	7.2	02:49	91.2	97.8	06:00	82.6	15:51			0	0	0	0	552	356	532	0
06	14.4	15.8	14:37	13.4	04:14	90.7	95.4	04:43	82.8	13:45			0	0	0	0	465	799	176	0
07	15.3	17.4	15:00	13.9	00:57	83.9	94.8	01:07	69.9	12:48			0	0	0	472	691	277	0	0
08	14.5	19.1	12:11	9.2	23:59	85.9	97.1	22:56	58.1	12:15			0	0	35	353	106	577	369	0
09	10.6	16.5	14:08	5.9	06:01	82.3	99.2	06:39	45.2	13:18			0	0	283	230	221	134	361	211
10	15.9	22.1	13:39	9.3	02:49	78.9	98.0	07:46	49.9	15:09			0	0	245	553	83	210	349	0
11	17.9	21.9	11:55	15.0	03:26	80.5	94.5	23:47	57.0	14:29			0	0	44	676	240	480	0	0
12	17.0	19.2	11:39	16.2	23:59	92.7	97.1	23:10	80.0	11:50			0	0	0	1	286	561	592	0
13	13.5	16.2	00:15	11.4	08:24	89.1	98.4	03:16	69.1	14:52			0	0	0	326	336	120	640	18
14	13.8	15.6	13:07	11.9	06:13	86.1	91.6	23:59	78.3	13:00			0	0	0	112	1206	122	0	0
15	15.7	21.0	14:15	11.7	23:26	82.4	96.7	23:50	48.8	14:34			0	0	210	305	199	606	120	0
16	13.5	18.4	12:45	9.4	04:54	88.6	99.2	07:01	54.5	12:45			0	0	57	322	44	137	567	313
17	14.0	17.6	15:02	10.7	23:59	92.8	98.6	09:29	71.3	15:05			0	0	0	167	136	319	608	210
18	10.9	12.8	15:26	9.2	03:47	87.2	98.2	00:37	73.0	11:07			0	0	0	400	349	200	487	4
19	11.8	15.9	12:27	9.7	20:31	93.7	99.3	06:19	66.2	12:30			0	0	0	98	135	268	864	75
20	11.9	16.3	13:50	9.8	02:34	82.7	98.2	01:38	51.8	13:52			0	0	122	373	439	291	193	22
21	13.7	17.1	13:22	10.8	00:00	79.0	95.7	07:37	53.8	12:09			0	0	83	728	351	185	93	0
22	12.3	15.6	13:19	8.0	23:59	84.7	96.7	23:49	68.7	13:20			0	0	0	338	683	350	69	0
23	10.5	16.1	13:41	6.4	03:15	90.9	98.8	04:47	65.2	13:41			0	0	0	168	284	327	451	210
24	15.3	16.9	11:11	11.9	00:00	93.9	96.7	02:30	85.9	11:21			0	0	0	0	149	740	551	0
25	14.6	17.1	13:55	12.3	23:36	81.2	95.2	02:32	58.2	13:59			0	0	45	405	533	455	2	0
26	15.5	18.2	11:48	12.2	02:21	89.2	95.6	07:30	73.2	11:51			0	0	0	106	447	820	67	0
27	17.2	21.0	13:39	14.7	06:48	77.5	90.3	00:42	59.4	13:33			0	0	9	895	535	1	0	0
28	15.5	17.3	12:57	13.5	08:16	85.9	95.2	07:58	70.6	12:57			0	0	0	352	579	482	27	0
29	14.7	17.6	20:52	10.5	07:24	88.2	98.7	07:09	75.6	23:11			0	0	0	338	413	186	376	127
30	16.5	18.7	09:51	14.1	23:59	82.0	89.3	11:41	75.8	00:47			0	0	0	492	948	0	0	0
31	13.4	15.7	14:58	11.6	23:54	91.0	96.7	09:35	80.3	15:52			0	0	0	0	462	636	342	0
Mean	13.8	17.3		10.5		85.3	96.3		64.5				0.00	0.00	1.13	5.34	6.66	5.67	4.56	0.64
Hi	17.9	22.1		16.2		93.9	99.3		85.9	Tot	0	0	0	0	2102	9924	12384	10554	8486	1190
Lo	10.5	12.8		4.9		74.0	89.3		45.2											

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.