

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

NOVEMBER 2007

Temperature (°C / °F)			Anomaly	Rank in past 126 years			
Mean maximum	11.5	52.7	+0.9	19 th highest			
Mean minimum	3.6	38.5	-0.1	51 st highest			
Daily mean	7.5	45.5	+0.4	35 th highest			
Highest maximum	16.8	62.2	on 1 st	Lowest maximum	6.9	44.4	on 23 rd
Highest minimum	10.0	50.0	on 1 st	Lowest minimum	-4.7	23.5	on 16 th
Mean grass minimum	0.3	32.5		Lowest grass minimum	-8.7	16.3	on 24 th
Mean earth @30 cm	8.8	47.8	-0.2	Earth @100 cm	12.1	53.8	
Frost duration (hrs)	57.5			Rain duration (hrs)	48.2		
Rainfall total (mm / in)	76.1	3.00	125 %	41 st highest			
Highest daily fall	24.9	0.98	on 19 th				
Number of: Dry days (<0.2mm)	13	Wet days (>0.9mm)	8	days ≥5mm	4		
Sunshine total (hrs)	102.7	Daily mean	3.42	143 %	Sunniest day	8.3	on 15 th
N° days with: Air frost	7	Ground frost	14	Snow falling	1	Snow lying	0
Thunder	2	Hail ≥5mm	0	Small hail/ice	0	Fog @09	0
Air pressure MSL : Mean @09 GMT (mbar/in)	1021.3		+6.1	30.16			
Absolute highest	1035.7			30.58	on 2 nd		
Absolute lowest	990.8			29.26	on 18 th		

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

Notes:

Mild. Very Sunny. Rainfall well above normal.

Temperature. Although the mean temperature puts this November into the mild category, it is by virtue of the mean maximum being 1.5° above the median, as the mean minimum is only 0.3° above its median. It is worth noting that while the mean temperature is 0.9° above the 126 year median, it is only 0.4° above the current 30 year climatological average, such is the warming that has taken place. The effect can also be seen by comparing the November 30 year averages for 1882 to 1911, 6.3°, with the 1978 to 2007, 7.5°. The highest maximum this month is 1.2° above the median and the lowest max is 2.3° above the median. In contrast, the lowest minimum is 1.1° below the median and the highest min is 0.4° below the median. The number of hours with air frost is 13.9 more than average. **Rainfall.** Most of this November's rain fell between the 18th and the 21st, this 4 day period producing 54.1 mm, while the previous 17 days only gave 8.5 m, and there was a 7 day dry spell ending on the 4th. The number of dry days is 2 fewer than average. Thunder was heard on the 19th and 21st. Rain briefly turned to sleet on the 18th. **Sunshine.** It was quite a sunny November, although the total sunshine hours is fewer than in both 2006 and 2005. Sunshine exceeded 80 % of the maximum on the 12th, 15th, 16th and 23rd, and exceeded 60 % on 9 days. However, it failed to reach 20 % on 13 days. Overall there were 15 days with <3 hours and 7 with =>6 hours. **Wind.** The mean wind speed this November was 5.6 mph, which is 0.5 mph below average. The windiest day was the 30th, mean speed 11.3 mph, but the month's highest gust of 41 mph was on the 8th. The 16th was the least windy day, mean 1.5 mph, and there were 22.4 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,3 NE,0 E,1 SE,2 S,3 SW,7 W,11 NW,3. **Humidity.** The overall mean relative humidity was 84.2 %, with the lowest value 48 % on the 9th. The mean water vapour content per kg of air was 5.4 g at 0900 and 5.6 g at 1500 GMT.

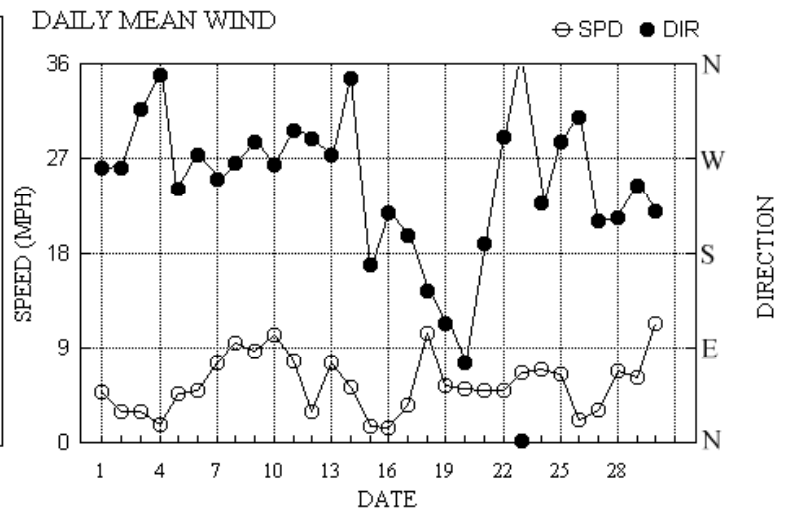
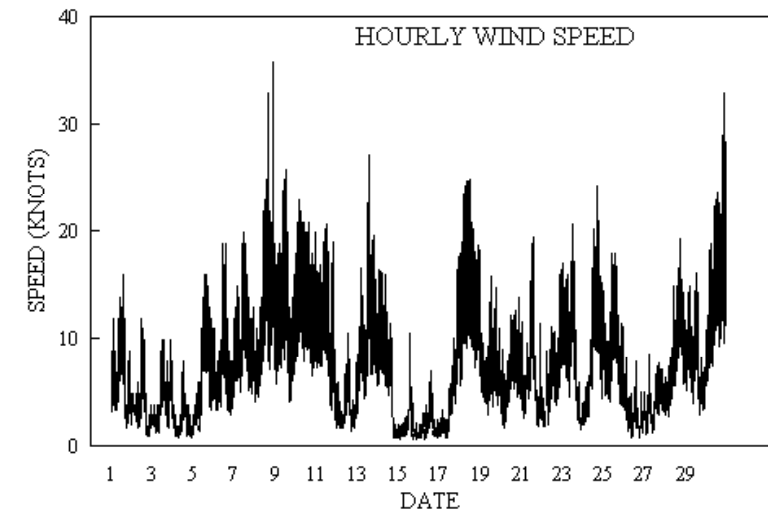
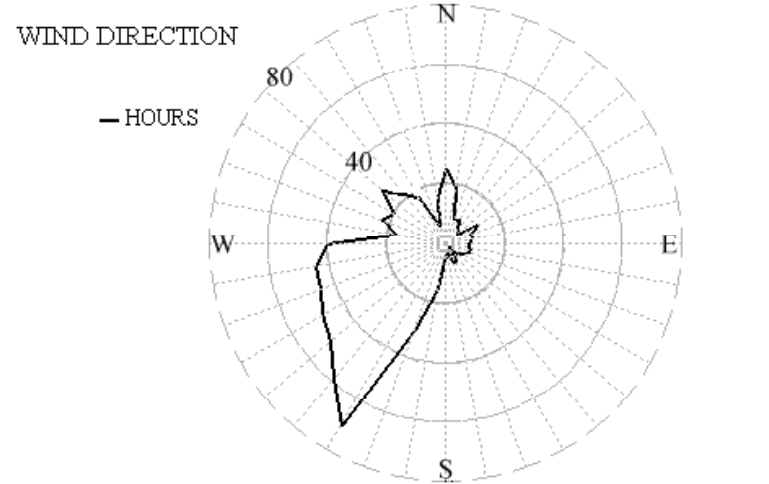
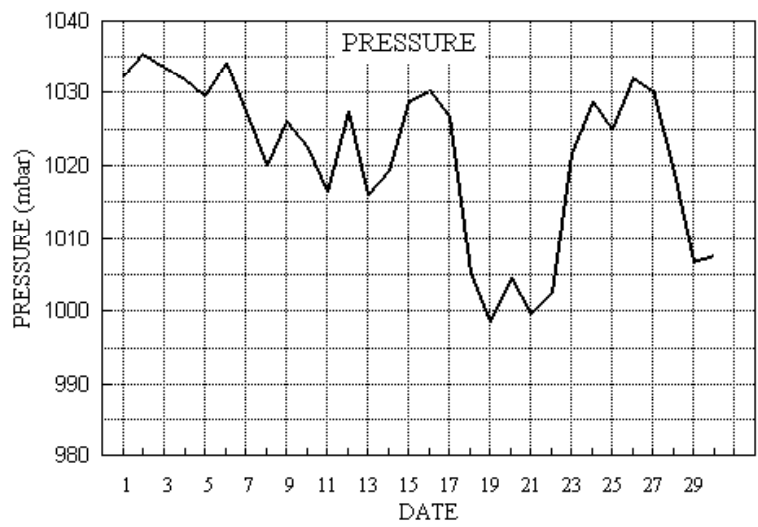
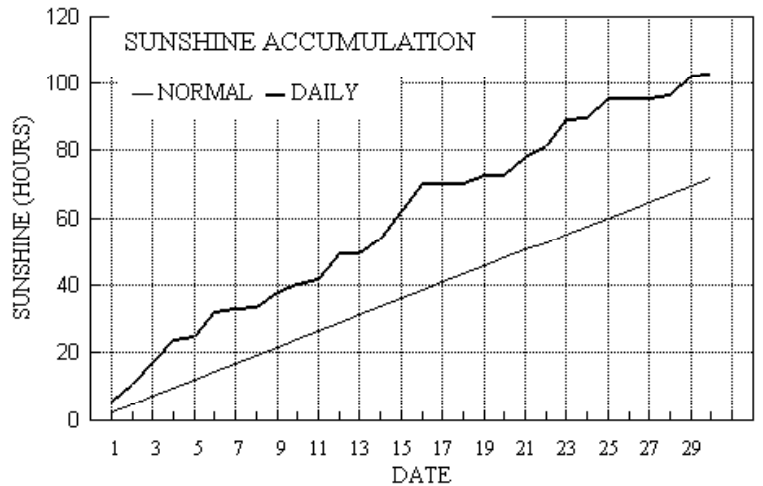
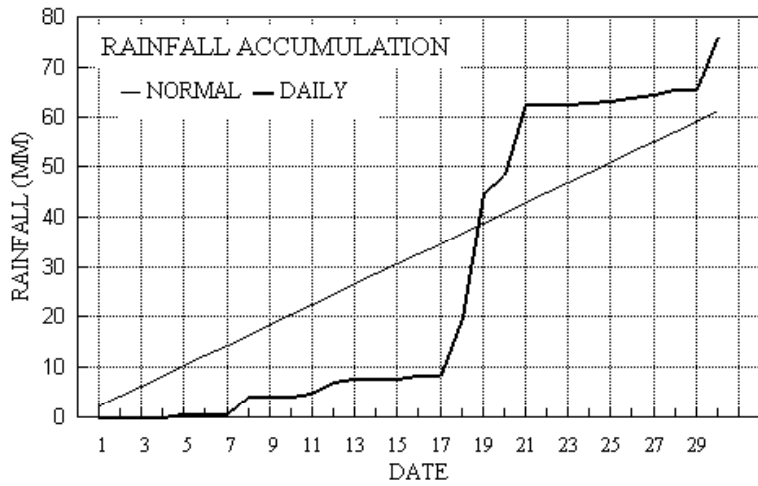
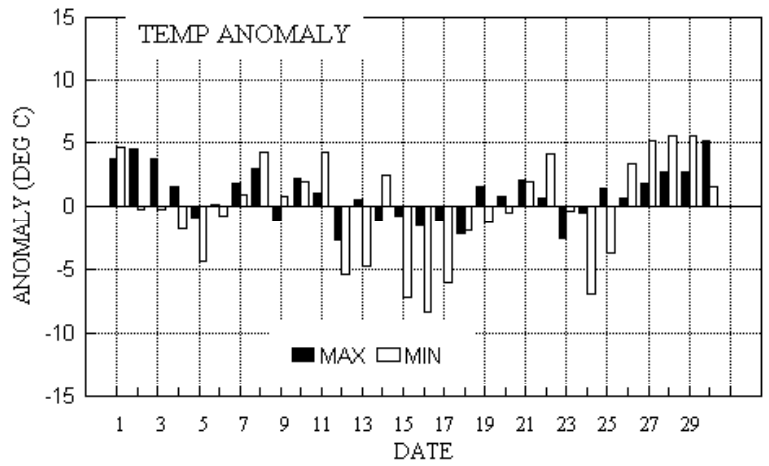
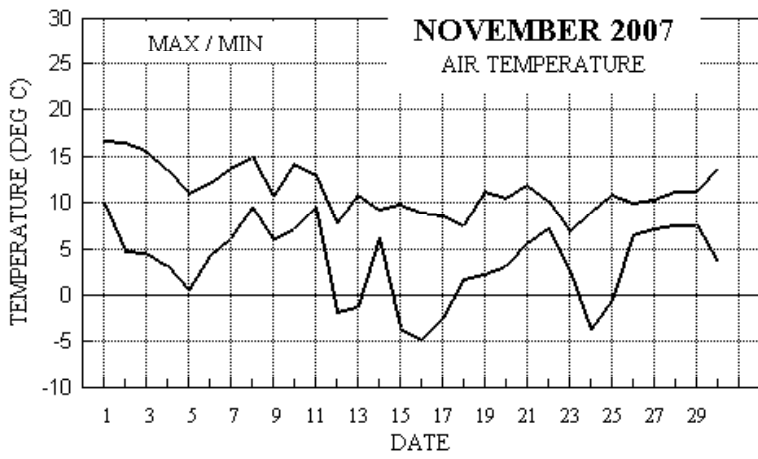
Commentary: 10 day mean anomalies, (max, min, rain, sun)

1 st to the 10 th				11 th to the 20 th				21 st to the 30 th			
+1.9°	+0.5°	20 %	171 %	-0.6 °	-2.9°	218 %	137 %	+1.4°	+1.6°	135 %	125 %

Up to the 11th, temperatures were generally near or above normal, with an anomaly for daily max of +4.5° on the 2nd. From the 12th to the 18th, max temperatures continued near normal but there were several cold and frosty nights, and an anomaly of -8.3° for the min on the 16th. From the 19th to the 26th, minima were generally near normal, and the month ended with both max and min above normal. It was generally fairly dry until the 17th, with just two wet days, but from the 18th to the 21st copious rainfall gave much of the month's total. Again fairly dry after the 21st, though finishing the month with a wet day on the 30th. Sunshine was well above normal for the first few days of the month, and a surplus of nearly 20 hours was reached by the 6th. This was maintained until the 14th then increased to nearly 30 hours over the next 2 days. After a few dull days, sunnier weather was re-established on the 21st, and by the 25th the surplus was 35 hours. Even with 3 of the remaining days having only 0.8 hours between them, the month still ended with a surplus of over 30 hours. Winds were mainly W'ly up to the 14th, and strongest between the 7th and 10th. Winds dropped light from the 15th to 17th, but a SE'ly picked up 18th. There was a steady veer from E'ly to N'ly between the 20th and 23rd, then a back to W'ly and finally SW'ly on the 27th, picking up to fresh on the 30th.

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

Wokingham climatological graphs for November 2007



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: NOVEMBER 2007

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	16.8	10.0	0.0	5.5	11.1	13.8	5.5	0.0	1032.3	0 0 0 0	0 0 0 0	0 0 0 0	261	3.9	4.2	300 16 1320	280 8 13	0.0
2	16.5	4.7	0.0	0.3	11.2	13.7	5.3	0.0	1035.5	0 0 0 0	0 0 0 0	0 0 0 0	262	1.6	2.5	300 12 1152	330 5 11	0.0
3	15.7	4.6	0.0	-0.4	11.1	13.7	6.3	0.0	1033.6	0 1 0 0	0 0 0 0	0 0 0 0	317	1.6	2.6	330 10 1210	320 5 13	0.0
4	13.5	3.1	tr	0.0	11.1	13.6	6.9	0.0	1031.8	0 0 0 0	0 0 0 0	0 0 0 0	350	0.7	1.4	20 8 1250	50 3 12	0.1
5	11.1	0.5	0.4	-1.7	10.4	13.6	1.1	0.0	1029.7	0 1 0 0	0 0 0 0	0 0 0 0	241	3.5	4.1	250 16 1210	230 8 14	0.5
6	12.1	4.2	0.0	-0.8	10.0	13.5	7.1	0.0	1034.0	0 1 0 0	0 0 0 0	0 0 0 0	274	3.3	4.3	330 19 1333	330 8 12	0.0
7	13.8	6.1	0.0	2.2	9.7	13.3	0.8	0.0	1027.3	0 0 0 0	0 0 0 0	0 0 0 0	251	6.3	6.6	270 20 1155	260 10 11	0.0
8	15.0	9.5	3.7	9.4	10.3	13.1	0.7	0.0	1019.9	0 0 0 0	0 0 0 0	0 0 0 0	266	7.4	8.2	300 36 2028	310 13 20	1.1
9	10.8	6.0	tr	2.9	10.2	13.0	4.3	0.0	1026.0	0 0 0 0	0 0 0 0	0 0 0 0	286	6.9	7.5	320 26 1302	330 11 12	0.0
10	14.2	7.2	tr	5.4	9.9	13.0	2.5	0.0	1022.5	0 0 0 0	0 0 0 0	0 0 0 0	265	8.7	8.9	260 23 0304	270 12 06	0.0
11	13.1	9.5	0.8	7.0	10.1	12.9	1.4	0.0	1016.3	0 0 0 0	0 0 0 0	0 0 0 0	297	4.3	6.7	299 21 1218	307 9 10	0.5
12	7.8	-1.8	2.0	-5.7	9.7	12.8	7.8	9.0	1027.4	1 1 0 0	0 0 0 0	0 0 0 0	289	1.5	2.5	292 11 1214	316 4 13	1.8
13	11.0	-1.2	0.9	-6.0	8.6	12.7	0.2	0.0	1016.0	1 1 0 0	0 0 0 0	0 0 0 0	273	5.4	6.6	303 27 1353	299 10 13	1.1
14	9.4	6.1	0.0	3.8	8.8	12.5	4.1	2.1	1019.2	0 0 0 0	0 0 0 0	0 0 0 0	347	4.1	4.5	310 17 0147	348 8 05	0.0
15	9.8	-3.6	0.0	-7.7	8.3	12.4	8.3	14.4	1028.7	1 1 0 0	0 0 0 0	0 0 0 0	169	0.4	1.3	67 11 1249	50 4 13	0.0
16	9.0	-4.7	0.4	-8.4	7.2	12.2	8.2	15.2	1030.3	1 1 0 0	0 0 0 0	0 0 0 0	218	0.9	1.3	208 7 1326	235 3 13	0.5
17	8.6	-2.4	0.3	-6.2	6.5	11.9	0.0	2.7	1026.7	1 1 0 0	0 0 0 0	0 0 0 0	196	2.3	3.1	193 18 2341	195 8 22	0.5
18	7.6	1.7	11.3	2.6	7.0	11.6	0.0	0.0	1005.2	0 0 1 0	0 0 0 0	0 0 0 0	143	6.9	8.9	154 25 1228	158 11 10	10.8
19	11.3	2.3	24.9	-0.3	7.1	11.3	2.6	0.0	998.5	0 1 0 0	1 0 0 0	0 0 0 0	113	4.4	4.6	132 16 1221	144 7 12	7.7
20	10.6	3.1	3.8	-1.5	7.4	11.1	0.0	0.0	1004.5	0 1 0 0	0 0 0 0	0 0 0 0	76	4.1	4.5	86 14 2018	93 7 20	4.8
21	11.9	5.6	14.1	2.3	7.8	11.0	5.0	0.0	999.7	0 0 0 0	1 0 0 0	0 0 0 0	188	3.3	4.3	247 19 1313	221 9 12	9.3
22	10.2	7.2	tr	2.4	8.0	11.0	3.4	0.0	1002.5	0 0 0 0	0 0 0 0	0 0 0 0	290	2.6	4.3	4 17 2340	1 8 23	0.0
23	6.9	2.7	0.0	-0.5	8.2	10.9	7.8	4.7	1021.6	0 1 0 0	0 0 0 0	0 0 0 0	1	5.2	5.7	3 21 1228	9 10 11	0.0
24	9.0	-3.8	0.4	-8.7	7.0	10.9	0.6	9.4	1028.7	1 1 0 0	0 0 0 0	0 0 0 0	228	5.9	6.1	226 24 1656	228 11 16	0.2
25	10.9	-0.6	0.2	-1.1	6.7	10.8	5.6	0.0	1025.0	1 1 0 0	0 0 0 0	0 0 0 0	286	5.3	5.7	308 18 1054	304 8 13	0.6
26	10.1	6.5	0.5	2.3	7.0	10.6	0.3	0.0	1032.2	0 0 0 0	0 0 0 0	0 0 0 0	310	1.0	1.9	301 8 0213	309 4 02	1.3
27	10.4	7.2	0.7	6.5	7.7	10.5	0.0	0.0	1030.2	0 0 0 0	0 0 0 0	0 0 0 0	211	2.6	2.7	250 9 0523	206 4 21	1.7
28	11.3	7.6	1.0	3.7	8.2	10.5	0.8	0.0	1019.1	0 0 0 0	0 0 0 0	0 0 0 0	213	5.8	5.9	215 19 1812	207 10 18	2.0
29	11.3	7.5	tr	3.8	8.3	10.6	5.9	0.0	1006.8	0 0 0 0	0 0 0 0	0 0 0 0	245	4.5	5.3	302 16 1215	301 8 13	0.1
30	13.8	3.5	10.7	-2.3	8.0	10.6	0.2	0.0	1007.6	0 1 0 0	0 0 0 0	0 0 0 0	220	9.7	9.8	216 33 2010	220 14 20	3.6
Total			76.1				102.7	57.5										48.2
Mean	11.5	3.6		0.3	8.8	12.1	3.42	1.9	1021.3					254	2.4	4.9		
Anom	+0.9	-0.1	125%		-0.2	+0.6	143%		+6.1									
Daily mean		7.5																
Anom		+0.4																
Number of days with:																		
Air frost = 7																		
Ground frost = 14																		
Nil sun = 4																		
Snow falling = 1																		
Snow lying = 0																		
Thunder = 2																		
Hail=>5mm = 0																		
Hail<5mm or ice = 0																		
Fog at 09GMT = 0																		

Abbreviations.

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

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

Grass min = Lowest overnight temperature at grass tip level.

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

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

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

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

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

Sp = 24 hour mean wind speed in knots.

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

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

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

Anom = Departure from 1971-2000 climatological average.

All temperatures in degrees Celsius.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for NOVEMBER 2007

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ci	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	62	4	24	04	11	13.4	10.3	82	7.6	1032.3	1	008	01	1	1	2	5	4	7	1	82612						1	1Ac66 2Ac68 2Ci80 COTRA	
2	61	6	25	02	04	10.1	9.6	96	7.2	1035.5	1	008	02	2	2	5	5	6	3	1	85635						2	1Ac68 2Ci78 COTRA	
3	62	5	24	01	04	9.5	9.1	98	7.0	1033.6	3	008	02	2	2	0	0	9	0	1	85080						3	COTRA	
4	15	6	25	01	02	6.8	6.5	98	5.9	1031.8	2	011	28	4	2	1	6	1	0	1	81702	86080				4	1Sc30 COTRA Parhelion		
5	35	6	21	03	06	4.0	3.9	99	4.9	1029.7	0	001	10	4	1	2	5	6	3	1	82630	85364				5	3Ci80 COTRA		
6	70	1	26	04	08	7.0	4.1	82	5.0	1034.0	2	015	02	0	0	0	0	9	0	1	81075						6		
7	82	7	25	07	14	9.7	5.1	73	5.4	1027.3	7	013	03	2	2	6	5	6	3	2	81635	86640	85072			7	1Ac68		
8	80	7	24	07	13	11.5	6.9	73	6.1	1019.9	7	016	01	2	2	4	5	7	7	/	84650	83367	85370			8	Ac du vir		
9	82	2	30	10	17	7.0	2.8	75	4.6	1026.0	2	026	15	1	1	2	8	5	0	1	82825					9	1Sc40 1Sc56 1Ci78 COTRA Cu med jpW		
10	78	7	27	09	19	10.6	6.6	76	6.0	1022.5	5	000	02	2	2	3	5	5	0	1	83628	87078				10	COTRA Parhelion faint		
11	62	7	26	08	18	11.4	6.4	71	6.0	1016.3	2	004	60	6	2	7	5	5	/	/	82625	87630				11	vv 50k exN		
12	86	6	21	01	04	1.5	-1.4	81	3.4	1027.4	2	013	02	2	2	0	0	9	0	1	81170	85078				12	2Ci72 COTRA Hoar mod Parhelia U/a cont		
13	56	8	24	07	11	5.9	5.1	95	5.4	1016.0	6	017	10	5	2	7	8	5	2	/	82820	86650	88458			13	2Sc30		
14	65	7	36	08	15	6.7	3.6	81	4.9	1019.2	3	027	01	6	2	5	8	4	3	1	81813	84635				14	2Sc45 4Ac65 /Ci75 Cu fra		
15	62	1	21	02	03	-0.7	-1.2	96	3.4	1028.7	1	012	02	0	0	1	5	6	0	1	81640					15	1Ci80 COTRA Hoar thk		
16	50	2	00	00	02	-1.7	-2.2	96	3.2	1030.3	1	003	10	0	0	0	0	9	0	1	82080					16	COTRA Hoar mod Gnd sfc frzn		
17	24	8	03	01	02	1.7	1.2	96	4.1	1026.7	6	003	10	6	2	8	5	6	/	/	81645	88656				17			
18	73	8	16	09	20	6.7	1.5	69	4.3	1005.2	7	028	03	2	2	3	8	5	2	/	83825	88550				18	1Sc40 Cu hum		
19	75	5	09	05	08	6.0	5.5	96	5.7	998.5	2	032	15	8	2	4	9	5	6	3	81920	83640				19	2Cu25 1Sc30 1Ac58 1Ci72 jpW		
20	14	7	05	04	07	5.5	5.3	99	5.6	1004.5	0	004	07	1	1	4	0	9	7	8	83363	87462				20	jj N		
21	63	3	19	04	08	7.1	6.3	94	6.0	999.7	2	020	03	1	1	3	5	2	0	1	81705	83640				21	1Ci75		
22	58	7	25	03	06	7.2	6.5	96	6.1	1002.5	2	019	10	6	2	4	5	2	7	/	81705	83640	85358			22	2Sc56 3Ac65		
23	82	1	36	06	12	3.0	-0.5	78	3.6	1021.6	2	034	02	0	0	1	5	7	0	0	81650					23			
24	62	7	21	05	10	-0.6	-2.0	91	3.2	1028.7	6	009	03	1	1	4	0	9	7	8	83363	87272				24	2As65 Hoar mod Gnd sfc frzn Parhelion fnt		
25	80	7	28	07	12	7.3	3.0	74	4.6	1025.0	2	023	02	2	2	0	0	9	0	1	87080					25	COTRA		
26	38	7	05	01	03	7.2	6.6	96	5.9	1032.2	2	013	10	2	2	7	5	3	/	/	81708	83615	87625			26			
27	24	8	18	01	02	8.8	8.4	97	6.7	1030.2	0	003	50	5	2	8	6	2	/	/	88704					27			
28	62	7	21	05	08	8.3	7.0	91	6.2	1019.1	7	010	02	2	2	7	5	6	/	/	81630	87635				28			
29	82	6	23	04	08	8.7	7.4	92	6.4	1006.8	3	005	01	6	2	6	5	6	/	2	86648	84072				29			
30	60	8	22	08	16	11.1	10.0	93	7.6	1007.6	8	008	50	5	2	8	6	3	/	/	85708	88711				30			

Mean vis = 17.7 km

Mean cloud = 5.7 71%

Mean wind speed = 4.6 kn

Mean gust = 9 kn

Mean TT = 6.7 C

Mean TdTd = 4.7 C

Mean RH = 87.8 %

Mean r = 5.4 g/kg

Mean PPP = 1021.3 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

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 NOVEMBER 2007

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ci	NChs	shs	NChs	shs	Date	Remarks
1	80	7	29	05	13	15.7	9.7	67	7.3	1032.5	8	002	02	1	1	1	8	5	8	1	81825	86368		1	1Sc25 2Ci80 COTRA Cu hum Ac cas vir Parhelion	
2	78	7	33	03	09	15.6	9.1	65	7.0	1034.0	7	009	02	2	2	5	8	5	0	1	82825	84628	87080	2	COTRA Cu hum	
3	77	7	02	05	09	14.3	9.8	74	7.4	1030.8	7	015	03	1	1	7	8	5	/	/	81820	83625	86630	3	Cu fra	
4	68	7	04	03	05	11.7	5.1	64	5.3	1029.7	7	012	01	2	2	1	5	5	3	1	81628	87080		4	1Ac68 COTRA Parhelion	
5	60	7	24	08	15	10.9	8.1	83	6.6	1026.2	7	017	05	5	2	1	5	6	3	1	81635	83362	87078	5	1Sc45 COTRA	
6	75	2	33	03	15	10.5	3.2	60	4.6	1033.7	7	006	01	1	1	1	4	6	0	1	81835			6	1Sc40 1Ci78 COTRA Cu hum	
7	82	7	27	08	15	13.5	6.9	64	6.1	1025.2	7	008	02	2	2	7	8	5	/	/	81828	87633		7	/Ci75 Cu fra Sc len ra un	
8	82	7	25	13	24	13.7	8.6	71	6.9	1013.3	7	034	03	0	2	7	8	5	7	/	83825	85635	86358	8	2Sc50 Cu hum	
9	82	5	29	05	19	9.3	2.2	61	4.4	1027.8	1	003	02	1	1	5	8	6	0	1	82830	84645		9	1Ci78 COTRA Cu hum	
10	78	7	26	10	21	13.7	6.9	64	6.1	1021.5	6	014	02	2	2	4	8	5	0	1	82828	83645	87080	10	1Sc56 1Ci73 COTRA Cu med	
11	70	7	01	05	15	10.9	4.0	62	5.2	1019.0	3	014	15	2	2	3	8	5	6	1	81828	86357	86075	11	2Sc45 Cu med jpW vv 50k exW	
12	86	6	31	03	07	6.2	-0.9	60	3.5	1026.2	7	014	02	0	2	0	0	9	0	1	82073	85076		12	COTRA Parhelion	
13	61	7	31	09	24	8.9	6.3	84	5.9	1012.6	6	016	80	8	2	7	8	4	3	2	81815	84820	86645	13	/Ac63 /Ci75 Cu med vv 40k ex p	
14	80	2	36	05	11	8.7	1.8	62	4.3	1020.4	2	006	01	1	1	2	8	5	0	1	81828			14	2Sc45 1Ci75 Cu med	
15	68	1	05	02	05	7.6	-0.8	55	3.4	1028.3	5	004	02	0	0	1	4	6	0	1	81838			15	1Sc45 1Ci80 Cu hum	
16	72	2	23	02	05	7.2	-0.8	57	3.5	1028.9	7	010	02	0	0	1	5	6	0	1	81630			16	2Ci78 COTRA Hoar slt in shade	
17	59	7	21	04	07	8.3	6.1	86	5.8	1022.9	7	024	25	8	2	7	8	4	/	/	81710	83640	87650	17	2Cu18 Cu med	
18	59	8	12	10	20	3.3	1.7	89	4.3	998.0	7	037	63	6	6	7	5	4	2	/	82712	87615	88520	18		
19	56	7	13	04	08	8.0	6.9	93	6.3	1001.0	1	011	81	8	2	7	9	4	/	/	82912	84815	87625	19		
20	23	8	06	06	11	7.6	7.4	98	6.4	1000.5	7	025	50	6	5	8	7	2	/	/	87703	88705		20		
21	80	6	20	07	15	10.3	5.1	70	5.5	1001.9	2	007	03	1	1	1	5	6	0	2	81645	86075		21	COTRA Ci spi ra Parhelion frnt	
22	78	7	26	05	10	9.2	6.3	82	5.9	1004.4	3	009	03	1	1	7	8	5	/	/	81820	87645		22		
23	83	1	01	06	13	5.8	-0.1	66	3.7	1025.4	2	013	01	0	0	1	1	5	0	0	81825			23	Cu hum/fra	
24	80	8	23	09	18	6.4	2.3	75	4.5	1022.9	7	031	21	6	2	7	5	5	7	/	82625	87640		24	/Ac60 Absent vv&cld est	
25	75	7	30	07	16	9.6	3.9	67	4.9	1026.1	5	000	02	2	2	1	8	5	7	1	81825	83075	87080	25	1Sc40 1Ac63 COTRA Cu hum	
26	62	6	33	03	08	9.3	6.5	83	5.9	1031.6	6	009	03	1	1	4	5	4	7	/	81715	85357		26	2Sc20 2Sc35	
27	50	8	22	03	07	10.1	9.4	95	7.2	1027.3	7	017	20	5	2	8	5	3	/	/	82705	86707	88612	27		
28	80	6	21	08	13	10.8	7.3	79	6.3	1013.2	7	035	02	2	2	4	8	4	3	0	81818	84645		28	3Ac69 Cu med	
29	84	3	30	07	14	9.1	2.1	61	4.5	1008.2	3	011	02	1	1	1	8	5	0	2	81828	83077		29	1Sc35 COTRA Cu hum Parhelion	
30	75	8	22	09	20	12.8	11.3	91	8.4	1003.1	8	027	21	6	2	7	5	4	2	/	83712	87615	88462	30		

Mean vis = 25.1 km

Mean cloud = 5.9 74%

Mean wind speed = 5.9 kn

Mean gust = 13 kn

Mean TT = 10.0 C

Mean TdTd = 5.2 C

Mean RH = 72.9 %

Mean r = 5.6 g/kg

Mean PPP = 1019.9 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.

November 2007	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	12.32	16.7	1141	7.2	2018	84.10	98.0	2026	62.8	1314	9.58	7.27	8.0	955	5.9	2018	1032.58	1034.8	2359	1030.9	146	0.0
2	9.99	16.4	1344	4.6	503	88.50	98.8	617	61.0	1345	7.95	6.52	8.5	1035	5.1	503	1034.60	1035.7	922	1033.4	1643	0.0
3	10.59	15.5	1311	4.4	708	86.30	98.5	851	65.4	1251	8.28	6.69	7.7	1958	5.0	708	1032.08	1034.4	2	1030.3	1659	0.0
4	6.48	12.8	1346	2.1	2225	89.20	98.6	852	55.7	1354	4.66	5.22	6.7	1046	4.2	2225	1030.78	1031.9	836	1029.5	1445	0.0
5	6.34	11.1	1528	0.2	733	92.30	100.2	734	76.8	2342	5.11	5.47	7.4	1828	3.8	734	1028.67	1031.1	0	1025.4	1609	0.5
6	7.68	12.1	1320	3.5	336	76.10	94.3	341	52.9	1322	3.57	4.80	5.5	952	4.4	329	1033.32	1035.2	1018	1029.9	8	0.1
7	10.42	13.8	1338	5.9	2	74.50	85.7	124	63.2	1445	6.02	5.75	6.5	1151	4.7	1	1027.03	1032.9	0	1024.7	1542	0.0
8	10.46	14.9	1320	6.3	2225	75.50	90.0	1626	62.5	1005	6.25	5.93	7.2	1547	3.8	2250	1018.67	1025.2	5	1012.3	1535	3.5
9	7.81	10.1	1247	5.6	700	67.68	77.4	700	47.7	1222	2.13	4.37	5.1	1813	3.5	1222	1025.79	1028.6	1842	1020.2	0	0.1
10	11.09	14.2	1336	8.3	19	72.20	83.7	2216	61.0	1427	6.24	5.86	6.6	1316	4.8	7	1022.20	1026.1	0	1018.7	2352	0.1
11	9.13	13.1	1358	0.3	2343	72.60	88.0	2345	57.7	1310	4.41	5.23	6.8	958	3.3	2310	1019.01	1024.8	2359	1015.7	614	0.8
12	1.59	7.3	1256	-1.9	722	81.20	96.1	727	55.2	1317	-1.51	3.35	4.0	1156	3.0	547	1026.07	1028.1	1024	1022.9	2349	0.2
13	6.46	11.0	1350	1.5	0	82.10	94.7	834	64.8	1406	3.56	4.95	6.4	1200	3.2	0	1015.42	1023.4	2	1011.5	1934	2.8
14	5.33	9.4	1414	-1.6	2351	80.80	98.2	2354	57.6	1421	2.17	4.42	5.2	1043	3.3	2351	1019.51	1025.3	2359	1013.3	5	0.0
15	0.72	8.8	1313	-3.7	633	87.20	98.5	29	49.4	1431	-1.48	3.37	4.6	1201	2.7	703	1028.32	1030.3	2342	1025.2	0	0.2
16	-0.09	8.0	1311	-4.8	733	87.60	97.6	2344	50.3	1409	-2.16	3.21	4.3	1145	2.5	743	1029.69	1030.6	1017	1028.5	1528	0.0
17	4.27	8.5	1422	-1.6	0	91.70	97.6	6	67.0	2351	2.99	4.73	6.1	1423	3.2	0	1023.95	1029.2	0	1015.7	2357	0.4
18	5.03	6.9	824	2.2	1806	79.80	96.7	2337	65.5	1058	1.66	4.34	5.9	2342	3.6	58	1001.88	1015.8	2	990.8	2234	9.8
19	7.28	10.7	1144	4.4	813	93.40	97.2	827	71.2	1217	6.27	6.00	6.7	1107	5.0	811	998.83	1003.6	2354	991.3	9	22.5
20	6.81	10.5	2353	2.5	300	97.80	99.0	1010	95.2	2359	6.49	6.12	7.7	2353	4.5	300	1001.66	1004.8	801	996.8	2239	2.7
21	8.63	11.3	1149	6.3	745	89.80	98.2	415	66.8	1244	6.95	6.29	7.7	53	5.3	1619	1000.30	1003.2	1905	996.4	125	6.5
22	8.05	10.1	1218	5.9	2356	87.90	98.6	422	74.6	1247	6.13	5.92	6.7	17	4.8	2145	1004.34	1012.7	2358	999.9	319	6.7
23	3.28	6.7	1307	-2.2	2244	78.30	97.1	2250	62.9	1307	-0.25	3.70	4.9	20	3.0	2342	1023.27	1031.2	2311	1012.5	0	0.0
24	2.67	9.1	2237	-4.2	625	87.20	97.8	405	65.4	1231	0.65	4.08	6.3	2229	2.6	625	1025.59	1031.1	229	1020.0	2256	0.4
25	7.81	10.9	1253	4.8	758	78.30	91.0	212	63.0	1257	4.20	5.06	6.0	3	4.4	809	1025.56	1030.0	2342	1020.5	7	0.1
26	8.05	10.0	1413	6.3	5	90.50	97.0	838	79.6	1434	6.58	5.93	6.4	2339	5.1	5	1031.50	1032.7	1023	1027.5	4	0.2
27	9.22	10.3	1529	8.2	515	95.90	97.8	613	93.4	16	8.60	6.83	7.3	1449	6.3	0	1028.31	1031.6	1	1023.7	2358	0.8
28	9.28	11.0	1426	7.3	523	89.50	98.0	402	73.4	1656	7.60	6.46	7.3	1951	5.8	1647	1016.09	1023.9	12	1009.5	2329	0.4
29	7.76	11.0	1247	3.1	2103	81.00	95.4	134	56.4	1345	4.57	5.35	6.9	538	3.9	2049	1008.66	1011.9	2050	1006.0	640	0.7
30	10.96	13.8	1303	4.4	6	85.60	94.7	828	76.1	339	8.63	7.12	8.7	1819	4.3	3	1004.46	1011.4	15	995.3	2238	9.0

Total																						68.5
Mean	7.18	11.20		2.84		84.15	95.15		65.15		4.53	5.34	6.49		4.17		1020.60	1025.05		1015.95		
Max	12.32	16.71		8.34		97.80	100.20		95.20		9.58	7.27	8.70		6.26		1034.60	1035.66		1033.44		
Min	-0.09	6.66		-4.79		67.68	77.40		47.68		-2.16	3.21	3.98		2.52		998.83	1003.22		990.82		

Wokingham Automatic Weather Station

AWS samples taken every 0.5 seconds

x and n refer to maximum and minimum respectively

Readings taken at Wokingham Climatological Station, Emmbrook, Berkshire

Lat 51.425 N, Long 0.853 W, NGR (SU) 798701

Altitude 45 m ASL.

Tmn = 00 to 24 GMT mean air temperature at 1.2 m, deg C

RHmn = 00-24 GMT mean relative humidity at 1.2 m, percent

TDmn = 00-24 GMT mean dew point at 1.2 m, deg C

rmn = 00-24 GMT mean humidity mixing ratio, g/kg

pmn = 00-24 GMT mean air pressure reduced to mean sea level, mbar

Rtot = 00-24 GMT rainfall total from AWS tipping bucket raingauge, mm

Time = hours and minutes in GMT of extreme values

Note: These max and min values may differ from the 1 minute average derived ones, e.g on page 6 of this report.

WOKINGHAM METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

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

Seasonal Means and Totals

AUTUMN 2007

Rank in the past 126 years

Temperature (°C)													
Mean maximum	15.4	(+0.7)	23 rd	highest									
Mean minimum	6.6	(-0.1)	40 th	highest									
Daily mean	11.0	(+0.3)	29 th	highest									
Rainfall total (mm)	151.8	(80 %)	39 th	lowest									
Sunshine total (hours)	360.9	(117 %)											
N ^o of:													
Dry days	57	(+6)	Wet days	19	(-10)								
Days with: Air frost	11	(+3)	Ground frost	23	(-3)	Snow falling	1	(0)	Snow lying	0	(0)		
Thunder	3	(0)	Hail ≥5mm	0		Small hail/ice	0		Fog @09 GMT	1	(-4)	Nil sun	12
Air pressure MSL : Mean @09 GMT (mbar)	1022.5								(+6.9)				

Departure from 1971 to 2000 average shown in brackets.

Notes: **Mild.** **Sunny.** **Rainfall Well Below Normal.** **Low Windspeed.**

Temperature. For the overall mean temperature this is the coolest autumn since 2003, or in terms of the mean maximum, since 2000. The highest maximum was 23.5° on the 5th Sept, 1.0° below the median and lowest since 1996. The lowest maximum was 6.9° on the 23rd Nov, 2.3° above the median. The lowest minimum was -4.7° on the 16th Nov, 0.7° below the median. The highest minimum, 15.0° on the 21st Sept, is 0.2° below the median. The lowest grass minimum was -8.7° on the 24th Nov. The mean temperature at 30 cm depth was 12.8°, 0.1° below average and lowest since 2003, while at 1 m depth the mean was 15.1°. There were 62.4 hours with air frost, 9.6 hours more than average. The first ground frost of the season was on the 18th Oct after a frost free period of 141 days. The first air frost was recorded one day later after an air frost free period of 193 days. **Rainfall.** The total autumn rainfall is 20 % below average. Compared with recent years, it is 2nd lowest since 1997 after 2005. November was the wettest month, and the only one this season to have an above average fall, and October was the driest with just over half the normal rainfall. Much of the rain fell in short periods lasting a few days and was often heavy, with long relatively dry intervals between. Two such wet periods were 23rd to 28th Sept when 34.3 mm fell and 18th to 21st Nov when 54.1 mm was recorded. The season's highest daily fall was 24.9 mm on the 19th Nov. There were several dry spells, one of 10 days ended on the 1st Sept, another of 16 days on the 18th Sept, 5 days on the 7th Oct and again on the 14th Oct, 8 days on the 24th Oct and 7 days on the 4th Nov. Thunder occurred on the 25th Sept, also on the 19th and 21st Nov. Rain on the 18th Nov briefly turned to sleet. **Sunshine.** Each of this season's months had above average sunshine, ranging from just 5 % above average in October to 43 % above average in November. The sunniest day was the 15th Sept with 11.9 hours. Overcast skies prevented any sunshine for the 4 days ending the 28th Oct. Overall there were 45 days with <3 hours, 27 days with =>6 hours and 11 days with =>9 hours. **Wind.** The overall mean wind speed of 5.1 mph is 1.0 mph below average, and lowest since 1997. The 24th Sept was the windiest day, but its mean speed of 11.5 mph is lowest for the autumn season since before 1988. The highest gust of 41 mph was on the 8th Nov, and is equal lowest with 2003 since before 1988. The least windy day was the 8th Oct, mean 1.4 mph, and there were 100.2 hours with a speed of 0.5 mph or less measured over one minute. Daily mean direction/number of days: N,13 NE,9 E,4 SE,4 S,7 SW,23 W,21 NW,10. **Humidity.** The overall mean relative humidity was 83.2 %, and the lowest value recorded was 31 % on the 18th Sept. The mean water vapour content per kg of air was 7.0 g and 6.7 g at 0900 and 1500 GMT respectively. **Pressure.** The mean pressure is highest since before 1976. The absolute lowest value, 990.8 mbar on the 18th Nov is highest since 1979. The absolute highest pressure was 1037.9 mbar on the 20th Oct.

September. Temperature above, rainfall below and sunshine near, normal. Dullest since 2001. Mean pressure highest since 1997.

October. Dry with temperature well above normal and sunshine above normal. Driest since 1995. Six more dry days than average. Number of sunless days equal highest with 1982. Mean wind speed and highest gust lowest since before 1988. Mean pressure equal highest since before 1976.

November. Mild, very sunny, rainfall well above normal. 54.1 mm of rain in 4 days to the 21st.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Wind Mn mph	Max gust	Mean pressure	Anom
Sept	19.3	+0.4	9.5	-0.2	39.8	63 %	147.2	112 %	5.5	40	1021.8	+5.3
Oct	15.3	+0.5	6.6	-0.1	35.9	54 %	111.0	105 %	4.0	30	1024.5	+9.3
Nov	11.5	+0.9	3.6	-0.1	76.1	125 %	102.7	143 %	5.6	41	1021.3	+6.1

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.