

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

FEBRUARY 2007

Temperature (°C / °F)			Anomaly	Rank in past 126 years			
Mean maximum	9.8	49.6	+1.9	22 nd highest			
Mean minimum	3.0	37.4	+1.7	19 th highest			
Daily mean	6.4	43.5	+1.8	18 th highest			
Highest maximum	12.8	55.0	on 21 st	Lowest maximum	4.1	39.4	on 8 th
Highest minimum	8.6	47.5	on 20 th	Lowest minimum	-7.1	19.2	on 7 th
Mean grass minimum	0.4	32.7		Lowest grass minimum	-11.5	11.3	on 7 th
Mean earth @30 cm	6.5	43.7	+1.4	Earth @100 cm	8.5	47.3	-1.8
Frost duration (hrs)	59.5			Rain duration (hrs)	71.3	*	
Rainfall total (mm / in)	78.9	3.11	191 %	15 th highest			
Highest daily fall	13.4	0.53	on 13 th				
Number of: Dry days (<0.2mm)	7	Wet days (>0.9mm)	16	days ≥5mm	9		
Sunshine total (hrs)	71.6	Daily mean	2.56	107 %	Sunniest day	8.7	3 rd
N ^o days with: Air frost	8	Ground frost	11	Snow falling	2	Snow lying	2
Thunder	1	Hail ≥5mm	1	Small hail/ice	0	Fog @09	0
Air pressure MSL : Mean @09 GMT (mbar/in)		1007.8	-8.9	29.76			
Absolute highest		1041.2		30.75	on 3 rd		
Absolute lowest		979.2		28.92	on 12 th		

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

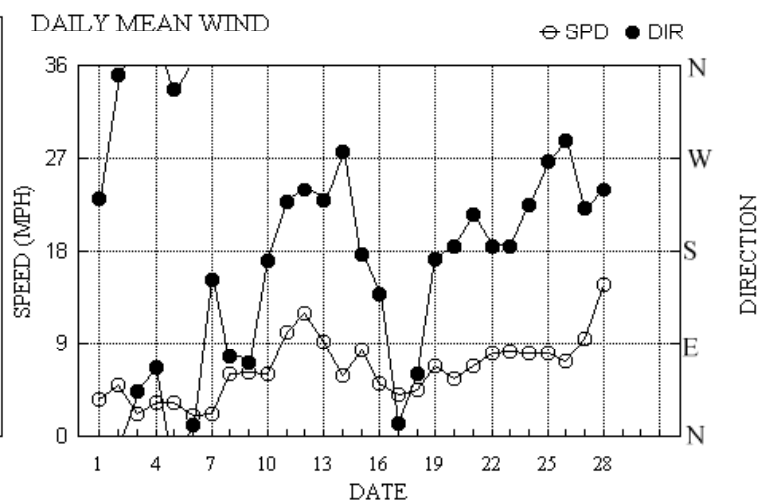
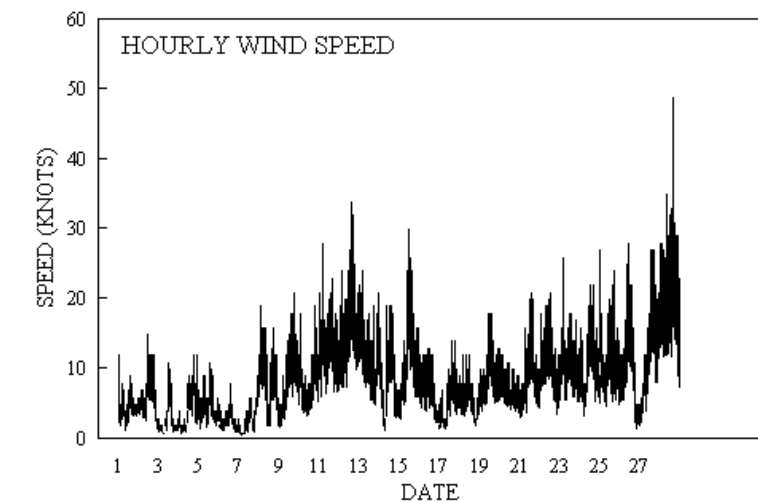
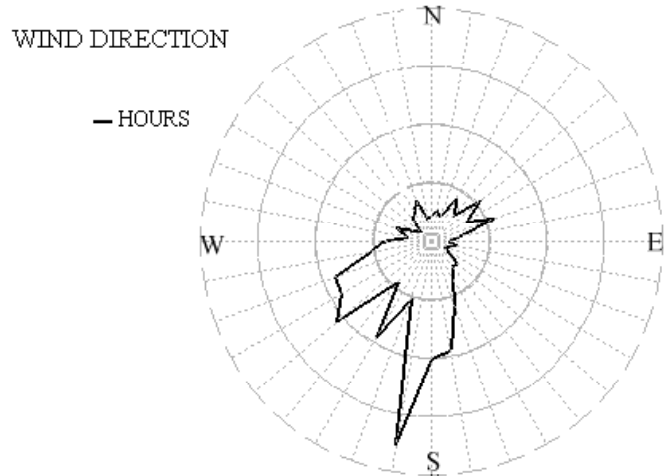
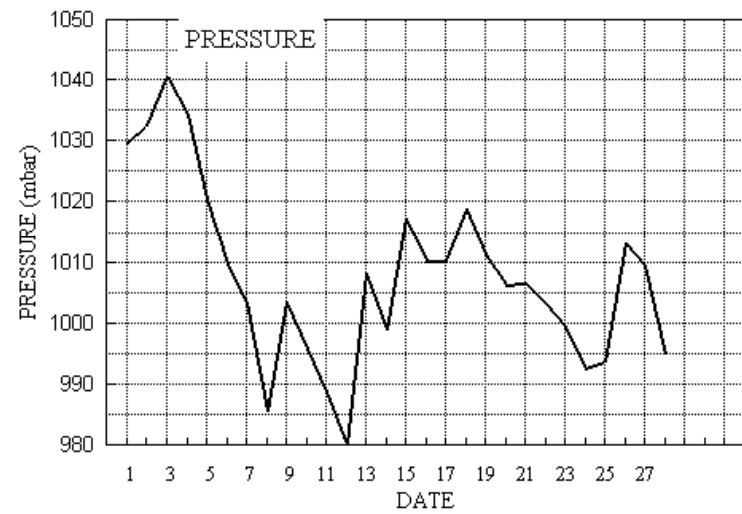
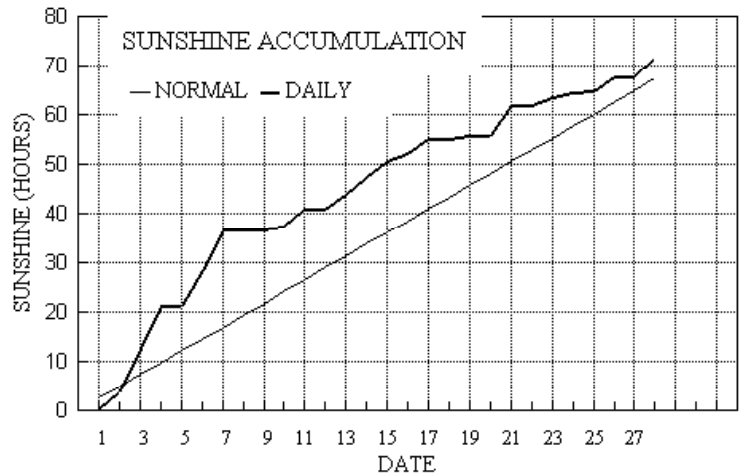
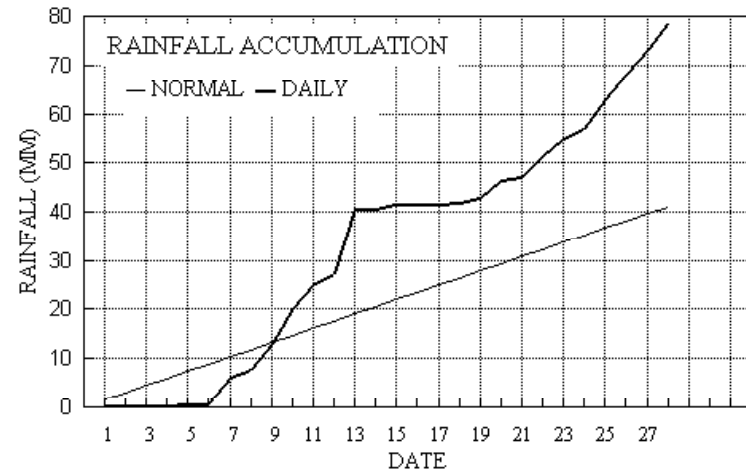
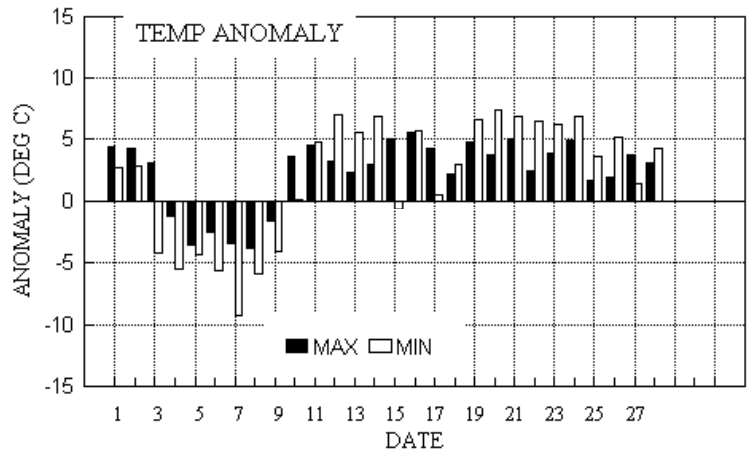
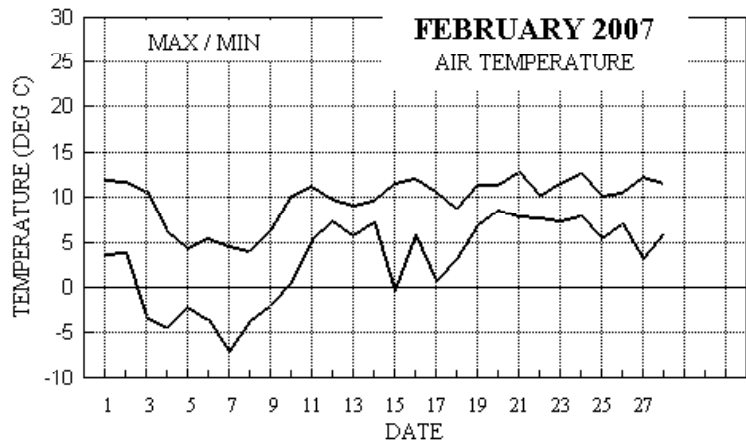
Notes: **Mild. Wet. Sunshine Above Normal.**

Temperature. The month was dominated by prolonged mild weather, with a brief 6 day cold snap early on. The resulting mean is in the mild category, and is highest since 2002. The highest maximum is close to the median, but the lowest minimum is 2.1° below the median and lowest since 1991. The lowest max is 1.7° above the median and the highest min is 0.6° above the median. While the mean grass min is highest since 2002, and the lowest value is lowest since 1996. The mean earth temp. at 1 m depth is highest since before 1990, with the caveat that this is the first February at the new site. **Rainfall.** A wet month overall, with almost twice the average rainfall, and wettest since 1990. Also, the number of dry days is equal lowest with 1995 since 1937. The highest 24 hour total is 3.4 mm above the median, but is highest only since 2002. Snow fell on the 8th and 9th, with a depth of 7 cm measured at 0900 GMT on the 8th, but a speedy return of mild weather saw a rapid thaw of lying snow, with the depth down to 2 cm by the morning of the 9th, and all gone later that day. The last occasion to have a snow depth of 7 cm or more was February 9th in 1991 with 8 cm. A thunderstorm with 7 mm dia. hail occurred on the 28th. **Sunshine.** The total this month is just above normal, mainly due to a sunny start, with an accumulated surplus of 20 hours by the 7th, but mostly near or below normal daily values for the rest of the month reduced the surplus to 4 hours by the 28th. Overall there were 16 days with <3 hours and 5 with => 6 hours. **Wind.** The mean speed of 6.4 mph is 1.9 mph below average, and lowest since 2003. The windiest day was the 28th, mean 14.7 mph, and the month's highest gust of 56 mph was also on the 28th. This is the highest gust for February since 59 mph in 1995. The 6th was the least windy day, mean 2.0 mph, and there were 1098 minutes (18.30 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,4 NE,3 E,2 SE,2 S,6 SW,8 W,3 NW,0. **Humidity.** The mean relative humidity was 86.6 %, and the lowest value was 44 % on the 6th. The mean water vapour content per kg of air was 5.3 g at both 0900 and 1500 GMT. **Commentary. From the 1st to the 10th :** Mean anomalies (max, min, rain, sun), -0.1°, -3.3°, 171 %, 154 %. This was the coldest period of the month, containing a 6 day cold spell. Daily temp. anomalies for max range from +4.4° on the 1st to -3.9° on the 8th, the month's coldest day. Anomalies for min. ranged from +2.8° on the 2nd to -9.2° on the 7th, the month's coldest night. Mainly dry until the 6th, then 19.6 mm over the next 4 days, of which 5.4 mm fell as snow on the 8th. This was the sunniest period too, with over 80 % of the maximum on 3 days, including 94 % on the 3rd, the month's sunniest day. Winds were light and variable or N'ly at first, becoming moderate E'ly on the 8th, veering S'ly on the 10th. **From the 11th to the 20th :** Mean anomalies +3.9°, +4.7°, 180 %, 75 %. Mild throughout, with daily anomalies for max between +5.6° on the 16th and +2.2° on the 18th, and for min, +7.4° on the 20th, the month's mildest night, to -0.6° on the 15th. Quite wet at first, with 20.6 mm in the first 3 days, including 13.4 mm on the 13th, the month's wettest day, but only 5.9 mm in the remaining 7 days. Sunshine was poor, with no day having more than 37 % of maximum. Winds were fresh SW'ly from 11th to 13th, veering W'ly on 14th, backing to N'ly and dropping light by the 17th, veering S'ly by the 19th. **From the 21st to the 28th :** Mean anomalies, +3.4°, +5.1°, 275 %, 83 %. Staying mild, with anomalies for daily max between +5.1° on the 21st, the month's mildest day, to +1.7° on the 25th, and for min, +6.8° on the 21st to +1.4° on the 27th. Wet, with no dry days, and a total of 32.3 mm. Sunshine was poor, only the 21st had over 50 % of the maximum. Winds were moderate S'ly, veering W'ly by the 25th, backing SW'ly and increasing fresh on the 27th, increasing very strong on the 28th.

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

Wokingham Climatological Graphs

February 2007



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: FEBRUARY 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	12.0	3.7	0.3	1.2	6.5	8.9	0.1	0.0	1029.6	0 0 0 0	0 0 0 0	0 0 0 0	230	2.8 3.1	270 12 0005	270 5 00	0.7	
2	11.8	3.8	0.0	-1.3	6.9	8.9	3.7	0.0	1032.4	0 1 0 0	0 0 0 0	0 0 0 0	351	1.7 4.3	350 15 1055	350 8 11	0.0	
3	10.7	-3.2	0.0	-7.6	6.7	9.0	8.7	12.8	1040.6	1 1 0 0	0 0 0 0	0 0 0 0	43	1.3 1.9	60 11 1147	50 5 13	0.0	
4	6.3	-4.5	0.0	-8.6	5.7	9.0	8.6	9.6	1034.3	1 1 0 0	0 0 0 0	0 0 0 0	67	1.7 2.8	60 12 1807	40 7 17	0.0	
5	4.4	-2.2	0.2	-4.6	5.3	8.9	0.1	0.0	1020.3	1 1 0 0	0 0 0 0	0 0 0 0	338	2.5 2.8	330 11 1255	320 5 12	0.1	
6	5.4	-3.5	0.0	-8.6	5.4	8.7	7.0	13.5	1009.6	1 1 0 0	0 0 0 0	0 0 0 0	11	1.2 1.7	30 8 1435	30 4 14	0.0	
7	4.6	-7.1	5.4	-11.5	4.6	8.5	8.4	16.1	1003.5	1 1 0 0	0 0 0 0	0 0 0 0	151	0.6 1.9	110 12 2357	100 6 23	xx	
8	4.1	-3.8	1.8	-7.7	3.9	8.3	0.0	0.0	985.5	1 1 1 1	0 0 0 0	0 0 0 0	77	1.0 5.3	100 19 0213	100 8 02	xx	
9	6.4	-2.0	5.2	-5.6	3.9	8.1	0.0	6.6	1003.3	1 1 1 1	0 0 0 0	0 0 0 0	71	5.1 5.4	90 21 1801	70 9 14	8.6	
10	10.3	0.6	7.2	3.5	4.2	7.9	0.7	0.0	995.7	0 0 0 0	0 0 0 0	0 0 0 0	170	3.5 5.2	220 19 1947	220 9 19	5.8	
11	11.2	5.2	5.0	4.8	5.2	7.7	3.5	0.0	988.8	0 0 0 0	0 0 0 0	0 0 0 0	228	7.8 8.8	230 28 0456	250 12 05	3.6	
12	9.9	7.4	2.2	5.9	6.0	7.7	0.2	0.0	980.2	0 0 0 0	0 0 0 0	0 0 0 0	239	8.9 10.4	270 34 1430	260 15 14	2.3	
13	9.1	5.9	13.4	2.5	6.3	7.9	2.7	0.0	1008.2	0 0 0 0	0 0 0 0	0 0 0 0	229	6.5 7.9	270 24 0315	260 11 02	13.3	
14	9.7	7.2	tr	6.5	6.5	8.0	3.7	0.0	998.9	0 0 0 0	0 0 0 0	0 0 0 0	277	2.3 5.1	340 19 0914	310 8 15	0.4	
15	11.6	-0.4	0.9	-5.7	6.2	8.1	3.2	0.9	1017.2	1 1 0 0	0 0 0 0	0 0 0 0	177	7.0 7.2	190 30 1151	190 13 11	0.6	
16	12.2	5.9	tr	1.7	6.3	8.2	1.5	0.0	1010.1	0 0 0 0	0 0 0 0	0 0 0 0	138	3.8 4.4	150 13 1022	180 6 11	0.0	
17	10.8	0.7	0.0	-3.6	6.5	8.2	3.0	0.0	1010.1	0 1 0 0	0 0 0 0	0 0 0 0	13	3.0 3.5	360 14 1446	20 7 18	0.0	
18	8.8	3.2	0.2	5.1	6.6	8.3	0.1	0.0	1018.9	0 0 0 0	0 0 0 0	0 0 0 0	61	3.1 3.9	40 12 0737	50 6 11	0.4	
19	11.4	6.8	1.0	6.4	6.9	8.3	0.5	0.0	1011.3	0 0 0 0	0 0 0 0	0 0 0 0	172	5.7 6.0	180 18 1135	190 10 12	3.3	
20	11.4	8.6	3.8	7.7	7.3	8.4	0.0	0.0	1006.4	0 0 0 0	0 0 0 0	0 0 0 0	184	4.8 4.9	180 12 0138	190 6 04	4.3	
21	12.8	8.0	0.5	4.5	7.8	8.5	6.1	0.0	1006.5	0 0 0 0	0 0 0 0	0 0 0 0	215	5.2 5.9	250 21 1431	240 11 12	1.9	
22	10.2	7.7	4.3	5.1	7.8	8.7	0.0	0.0	1003.0	0 0 0 0	0 0 0 0	0 0 0 0	184	6.8 7.0	190 21 1304	190 10 13	6.8	
23	11.6	7.4	3.5	4.0	7.9	8.8	1.6	0.0	999.4	0 0 0 0	0 0 0 0	0 0 0 0	184	6.7 7.1	200 26 0314	210 10 03	3.5	
24	12.6	8.0	2.2	6.1	8.1	8.9	1.0	0.0	992.7	0 0 0 0	0 0 0 0	0 0 0 0	225	6.0 7.0	250 22 1251	250 11 13	2.4	
25	10.3	5.4	5.6	3.8	8.3	9.0	0.2	0.0	993.8	0 0 0 0	0 0 0 0	0 0 0 0	267	6.3 6.9	230 27 0028	230 11 00	2.7	
26	10.6	7.0	5.4	4.5	8.2	9.1	3.0	0.0	1013.1	0 0 0 0	0 0 0 0	0 0 0 0	288	5.5 6.3	310 28 1020	300 11 10	5.6	
27	12.3	3.2	5.3	-1.5	7.9	9.2	0.0	0.0	1009.3	0 1 0 0	0 0 0 0	0 0 0 0	221	7.5 8.3	220 28 2337	230 14 13	2.6	
28	11.7	6.0	5.5	4.6	8.1	9.3	4.0	0.0	994.7	0 0 0 0	1 1 0 0	0 0 0 0	240	12.6 12.8	250 49 1546	240 17 15	2.4	
Total			78.9				71.6	59.5										71.3
Mean	9.8	3.0		0.4	6.5	8.5	2.56	2.1	1007.8					216	2.6 5.6			
Anom	+1.9	+1.7	191%		+1.4	+1.8	107%			-8.9								
Daily mean		6.4																
Anom		+1.8																
Number of days with:																		
Air frost = 8																		
Ground frost = 11																		
Nil sun = 5																		
Snow falling = 2																		
Snow lying = 2																		
Thunder = 1																		
Hail=>5mm = 1																		
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 FEBRUARY 2007

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	65	7	23	02	04	9.0	7.3	89	6.3	1029.6	1	011	02	2	2	7	5	6	/ /	87630	1				
2	30	7	26	03	05	8.6	8.0	96	6.5	1032.4	2	018	20	5	2	6	5	4	3	/	82618	86625	2	2Ac65	
3	82	1	21	02	03	-0.5	-0.9	97	3.5	1040.6	1	005	02	0	0	0	0	9	0	1	81081		3	COTRA Mod hoar Gnd sfc frzn	
4	59	7	22	01	02	-2.2	-2.8	96	3.0	1034.3	7	010	10	1	1	0	0	9	0	1	87080		4	COTRA Hoar thk Gnd sfc frzn	
5	11	8	01	03	06	1.0	0.4	96	3.9	1020.3	3	003	10	2	2	8	6	1	/ /	88702		5			
6	57	2	18	02	03	-1.2	-1.6	97	3.4	1009.6	6	011	10	0	0	2	0	9	7	1	81358		6	1Ac68 1Ci75 Hoar mod Gnd sfc frzn	
7	40	3	31	01	01	-3.8	-4.3	96	2.8	1003.5	3	006	10	0	0	0	0	9	0	1	83078		7	COTRA Hoar mod Gnd sfc frzn	
8	11	8	07	07	12	0.3	0.0	98	3.9	985.5	5	008	71	7	7	8	7	2	/ /	88705		8	Sn lyng 7cm		
9	50	8	06	04	07	0.7	-0.1	95	3.8	1003.3	2	017	10	2	2	7	6	3	2	/	87706	88458	9	Snow lyng 80% 2cm	
10	61	8	06	03	08	5.2	4.5	95	5.3	995.7	3	011	63	6	6	7	5	3	2	/	83708	87615	88525	10	
11	70	7	21	06	13	7.7	5.5	86	5.7	988.8	1	004	15	6	2	7	5	5	/ 2	82625	84635	85645	11	/Ci70 jpW vv 40k ex p	
12	60	7	21	09	16	8.6	7.1	90	6.5	980.2	7	038	80	8	2	7	8	4	/ /	81715	84818	87630	12		
13	70	3	24	07	13	7.3	3.5	77	4.9	1008.2	2	023	03	0	0	1	5	6	0	5	81640	83278		13	COTRA
14	50	8	33	04	10	7.8	7.4	97	6.5	998.9	3	018	60	6	2	7	8	2	2	/	82705	83810	85625	14	8Ns40
15	62	7	17	06	12	7.8	6.5	91	6.0	1017.2	4	000	03	1	1	4	6	3	0	2	82709	83712	85080	15	2Ci72 COTRA Parheliion
16	65	7	13	07	11	8.1	4.2	76	5.1	1010.1	6	004	02	2	2	3	5	6	7	1	81640	83650	87075	16	1Ac57 1Ac65 COTRA
17	63	6	35	02	04	3.2	2.4	95	4.5	1010.1	3	015	02	2	2	1	0	9	3	2	81365	86072		17	COTRA Parheliion
18	75	7	03	03	07	7.0	5.2	88	5.5	1018.9	3	008	01	2	2	7	6	4	3	/	87612			18	/Ac60
19	38	7	16	05	10	8.6	7.5	93	6.5	1011.3	7	013	05	5	2	7	6	3	7	/	85708	84645	87368	19	
20	25	8	19	06	10	9.2	8.8	97	7.1	1006.4	2	014	20	5	2	8	6	2	/ /	87704	88705		20		
21	72	2	24	06	12	8.7	7.4	92	6.5	1006.5	1	007	03	6	1	2	8	4	0	1	81815			21	1Sc25 1Sc40 1Ci75 COTRA Cu med
22	61	8	19	09	18	8.6	7.3	92	6.4	1003.0	6	002	61	6	2	7	5	3	2	/	83708	85711	86615	22	8Ns25
23	63	7	19	07	13	9.5	7.6	88	6.6	999.4	1	002	25	8	2	7	8	4	/ 1	81815	85645		23	2Sc30 /Ci75 COTRA Cu med Parheliion	
24	65	7	25	06	11	8.8	7.5	92	6.6	992.7	1	027	02	6	2	7	8	4	/ /	82812	87640		24		
25	82	7	28	05	11	7.1	5.3	88	5.6	993.8	3	023	01	6	2	7	5	4	/ /	81712	86615	87618	25		
26	86	6	29	07	14	8.2	3.3	71	4.8	1013.1	2	026	01	8	2	1	8	4	3	2	81818	86070		26	Cu med
27	56	8	21	07	12	9.5	9.1	97	7.2	1009.3	6	038	51	6	5	8	7	2	/ /	87704	88706		27		
28	75	5	24	12	23	8.1	4.4	78	5.3	994.7	1	008	25	9	8	2	9	5	6	3	82920	84070		28	1Cu25 1Sc45 1Ac60 vv70kNW

Mean vis = 14.8 km
 Mean cloud = 6.3 79%
 Mean wind speed = 5.1 kn
 Mean gust = 10 kn
 Mean TT = 5.7 C
 Mean TdTd = 4.3 C
 Mean RH = 90.8 %
 Mean r = 5.3 g/kg
 Mean PPP = 1007.8 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 FEBRUARY 2007

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Cf	NChs	shs	NChs	shs	NChs	shs	Date	Remarks
1	80	6	24	05	08	11.6	7.6	77	6.4	1030.1	7	004	02	2	2	6	8	5	/	1	81822	86628					1	/Ci75 Cu hum/fra
2	80	4	01	05	13	11.2	6.1	71	5.7	1034.0	1	007	02	1	1	4	8	5	0	0	82825	83630					2	Cu hum
3	80	0	04	04	09	9.9	1.2	55	4.0	1038.6	7	016	02	0	0	0	0	9	0	0							3	
4	50	7	05	03	07	5.1	2.9	86	4.6	1029.0	7	034	05	2	2	0	0	9	0	1	87080						4	COTRA Absent vv&cld est
5	56	8	32	04	09	3.9	1.8	86	4.3	1017.5	8	018	05	2	2	8	5	3	/	/	86709	88615					5	
6	78	1	33	02	07	4.3	-4.3	54	2.8	1005.6	6	019	01	1	1	1	2	6	3	0	81835						6	1Ac60
7	72	4	24	02	06	2.8	-5.1	56	2.6	1002.1	6	008	03	0	0	1	0	9	3	1	81369	84075					7	COTRA Hoar slt in shade Gnd sfc frzn
8	57	7	23	06	11	3.1	2.2	94	4.6	988.1	2	013	80	8	2	7	8	5	/	/	83820	83625	87635				8	Thaw Sn lnyg 4cm
9	56	8	07	10	19	3.2	1.7	90	4.3	1001.1	7	015	61	7	6	6	5	4	2	/	82710	85640	88556				9	Sn ly 20% 1cm
10	78	7	15	05	09	9.2	6.8	84	6.2	996.9	6	005	80	8	2	7	5	4	/	/	81712	86625	87635				10	
11	84	6	25	11	21	10.7	5.0	68	5.5	994.6	1	037	02	8	2	6	8	5	0	1	84828	83635					11	1Ci75 Cu hum
12	88	7	27	17	31	9.0	4.8	75	5.5	986.0	3	049	25	8	2	7	8	5	/	/	83822	87635					12	Cu hum jp SW&N distant
13	75	8	21	05	11	9.0	3.7	70	5.0	1008.0	8	008	03	2	2	1	5	7	7	/	81650	84458	88462				13	1Ac60
14	80	5	32	09	18	9.3	2.5	62	4.6	1005.5	2	031	01	2	2	0	0	9	0	8	82273	84075					14	COTRA
15	81	7	19	12	21	10.4	3.9	64	5.0	1014.5	6	022	03	2	2	1	0	9	3	2	81368	87072					15	COTRA
16	75	8	12	06	11	11.2	5.5	68	5.6	1008.2	7	016	02	6	2	6	0	9	8	7	83357	83465	88275				16	2Ac62
17	61	7	36	08	14	10.0	6.4	78	6.0	1011.8	3	008	03	2	2	1	0	9	1	8	83465	87270					17	Absent vv&cld est
18	75	8	07	05	07	8.0	4.9	81	5.3	1017.9	8	009	02	2	2	8	5	4	/	/	88618						18	
19	56	7	19	08	16	10.0	7.0	82	6.3	1007.5	6	021	05	2	2	6	8	4	0	8	83815	84640	87272				19	Cu med
20	58	7	16	05	08	11.2	9.6	90	7.4	1006.8	7	001	05	6	2	7	8	3	/	/	82808	85625	87640				20	Cu hum
21	86	5	25	09	18	11.3	3.3	58	4.8	1007.2	7	003	02	1	1	3	8	6	0	1	81835	83078					21	2Sc56 COTRA Cu med
22	63	8	19	08	15	9.6	8.4	92	6.9	1001.6	7	007	21	6	2	8	5	4	/	/	86710	87615	88630				22	
23	72	5	19	07	15	11.0	8.9	87	7.2	997.3	8	016	25	8	2	5	8	4	7	1	81815	83650					23	2Sc25 1Ac58 1Ac62 2Ci75 Ch fra/med jpE
24	86	7	26	09	22	11.6	5.2	65	5.7	995.5	0	000	15	2	2	7	8	6	/	8	82830	83640	87272				24	4Sc50 COTRA Cu med jpW
25	20	7	31	12	24	7.5	5.7	88	5.8	999.1	3	019	81	8	2	7	9	4	/	/	81718	84925	85640				25	2Cu30
26	86	5	32	11	20	9.3	0.9	56	4.0	1016.2	2	011	02	1	1	3	8	6	0	1	83838	84078					26	1Sc45 COTRA Cu hum
27	75	8	23	12	25	11.4	9.6	89	7.5	1002.5	7	037	60	6	5	8	5	4	/	/	87618	88625					27	
28	68	6	23	11	22	10.3	6.1	75	5.9	992.0	8	018	15	8	1	2	9	5	0	2	81925	86075					28	1Cu28 1Sc40 jpW vv50kE

Mean vis = 26.3 km
 Mean cloud = 6.2 77%
 Mean wind speed = 7.5 kn
 Mean gust = 15 kn
 Mean TT = 8.8 C
 Mean TdTd = 4.4 C
 Mean RH = 75.0 %
 Mean r = 5.3 g/kg
 Mean PPP = 1007.7 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 METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

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

Seasonal Means and Totals

WINTER 2006/2007

Temperature (°C)		Rank in the past 125 years	
Mean maximum	9.9	(+2.1)	3 rd highest
Mean minimum	4.2	(+2.5)	* Highest *
Daily mean	7.0	(+2.2)	* Equal highest *
Rainfall total (mm)	222.0	(134 %)	17 th highest
Sunshine total (hours)	201.3	(112 %)	
N ^o of:			
Dry days	31	(-14)	Wet days
Days with: Air frost	18	(-11)	Ground frost
Thunder	2	(+1)	Small hail/ice
Hail ≥5mm	1		Fog @09 GMT
Snow falling	4	(-6)	Snow lying
Nil sun	23		Air pressure MSL : Mean @09 GMT (mbar)
	1015.1	(-1.0)	

Departure from 1971 to 2000 average shown in brackets.

Notes: **Record High Temperatures.** **Wet.** **Sunny.**

Temperatures. Once again we have to report record high temperatures, following on from the record values in the autumn and summer seasons. The mean this winter is equal highest with 1990 since before 1882, while the mean minimum is a new record, 0.3° higher than the previous record set in 1990. The mean maximum failed by just 0.1° to take the record held jointly by 1990 and 1989. The highest maximum, 14.4° on the 4th December, is 0.5° above the median but 3.4° below the record. The lowest maximum, 0.4° on the 21st December, is 0.7° above the median. The highest minimum, 11.6° on the 14th December, is 1.7° above the median and 1.1° below the record, while the lowest minimum, -7.1° on the 7th February, is 0.3° above the median and 8.2° above the lowest on record. The mean daily temperature range, 5.7°, is lowest since 1996. The mean grass minimum, 1.7°, is highest since before 1980, but the lowest grass minimum, -11.5° on the 7th February, is lowest since 2001. Earth temperatures at both 30 cm and 1 m depth, 7.4° and 9.7°, are new record highs. The number of days with air frost is fewest since 1990, and for ground frost since before 1980. **Rainfall.** Higher than average, and in the wet category, but highest only since 2003. Each of the winter months had above average falls, but February had the highest percentage of average with 191 %. The mean daily falls for each month were similar, ranging from 2.2 mm in December to 2.8 mm in February. The season's highest 24 hour fall was 16.6 mm on the 29th December, an amount very close to the median. The number of dry days is equal lowest with 1994 and 1995 since 1970. The number of wet days (1.0 mm or more) is highest only since 1995. The duration of measurable rain, 177.3 hours (excluding snowfall) is highest since 2003 and is 11.8 hours above the 14 year average. The highest daily duration was 13.3 hours on the 13th February. Snow fell on the 24th and 26th January and the 8th and 9th February. 2 cm of lying snow was recorded at the morning observation on the 24th January, with 7 cm on the 8th February and 2 cm on the 9th. Small hail fell on the 7th December and 1st January, and large hail on the 28th February. A tornadic storm on the 30th December produced an exceptionally high rainfall rate of 227 mm/hr at 1546 GMT. Other maximum rates were 52 mm/hr on 17th January and 46 mm/hr on the 28th February. **Sunshine.** Another season in the sunny category, as with the past autumn and summer. The 3rd of February was the sunniest day with 8.7 hours. The 9 day period 18th to 27th of December produced only 1.4 hours of sunshine divided over two days. Overall there were 57 days with <3 hours and 11 with =>6 hours. **Wind.** The mean wind speed of 8.4 mph is 0.5 mph above average and highest for the season since 1995, mainly due to a windy January, mean speed 10.0 mph. February was the least windy month, 6.4 mph. The windiest day was the 18th January, mean 18.7 mph, and the highest gust of 74 mph was also on that day. The least windy day was the 19th December, 1.7 mph. There were 1658 minutes (27.6 hours) with a mean speed of 0.5 mph or less. Daily mean direction /number of days : N,8 NE,8 E,4 SE,2 S,8 SW,44 W,14 NW,2. This has been a markedly SW to W season, with these directions having 145 % of average, at the expense of all others except N, with SE and S having just over 50 %, and NW only 29 % of average. **Humidity.** The overall mean relative humidity was 85.6 % with a minimum value of 44 % on both 25th January and 5th February. The mean water vapour content per kg of air was 5.4 g at 09 GMT and 5.5 g at 15 GMT. **Pressure.** The season's highest pressure, 1045.3 mbar on the 22nd December, is highest since 1992. The lowest pressure was 979.2 mbar on the 12th February.

December. Very mild, wet and sunny. Mean temp. highest since 1988. Exceptional rainfall rate of 227 mm/hr on 30th. Windiest since 1999.

January. Record high temperature. Very sunny with above average rainfall and very windy. New record mean temp, 0.1° above the previous highest in 1921 and 1916. Highest max is 4th highest in 104 years. Windiest since 1995. Notable wind storm on 18th with 74 mph gust, highest for any day since 13th January 1993.

February. Mild, wet and above normal sunshine. Almost twice the average rainfall, wettest since 1990. Number of dry days equal lowest with 1995 since 1937. 7 cm of snow on 8th. Wind gust of 56 mph on 28th highest for February since 1995.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Wind Mn mph	Max gust	Mean pressure	Anom
Dec	9.6	+1.3	4.5	+2.0	73.9	114	57.7	109	8.5	51	1019.8	+4.7
Jan	10.4	+2.9	4.9	+3.4	69.2	113	72.0	122	10.0	74	1017.0	+1.0
Feb	9.8	+1.9	3.0	+1.7	78.9	191	71.6	107	6.4	56	1007.8	-8.9