

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

FEBRUARY 2006

Temperature (°C / °F)			Anomaly	Rank in the past 125 years			
Mean maximum	6.7	44.1	-1.2	32 nd lowest			
Mean minimum	1.1	34.0	-0.2	61 st lowest			
Daily mean	3.9	39.0	-0.7	42 nd lowest			
Highest maximum	11.6	52.9	on 15 th	Lowest maximum	-0.4	31.3	on 2 nd
Highest minimum	6.1	43.0	on 15 th	Lowest minimum	-4.6	23.7	on 11 th
Mean grass minimum	-0.9	30.4	+0.9	Lowest grass minimum	-9.1	15.6	on 10 th
Mean earth @30 cm	5.0	41.0	-0.1	Earth @100 cm	6.6	43.9	-0.1
Frost duration (hrs)	89.8			Rain duration (hrs)	47.0		
Rainfall total (mm / in)	54.3	2.14	131 %	39 th highest			
Highest daily fall	13.1	0.52	on 19 th				
Number of: Dry days (<0.2mm)	17	Wet days (>0.9mm)	8	days ≥5mm	4		
Sunshine total (hrs)	67.0	Daily mean	2.39	100 %	Sunniest day	9.1	on 25 th
N ^o days with: Air frost	8	Ground frost	17	Snow falling	5	Snow lying	1
Thunder	0	Hail ≥5mm	0	Small hail/ice	3	Fog @09	2
Air pressure MSL : Mean @09 GMT (mbar/in)		1016.5	-0.2	30.02			
Absolute highest		1034.3		30.54		on 5 th	
Absolute lowest		981.6		28.99		on 17 th	

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

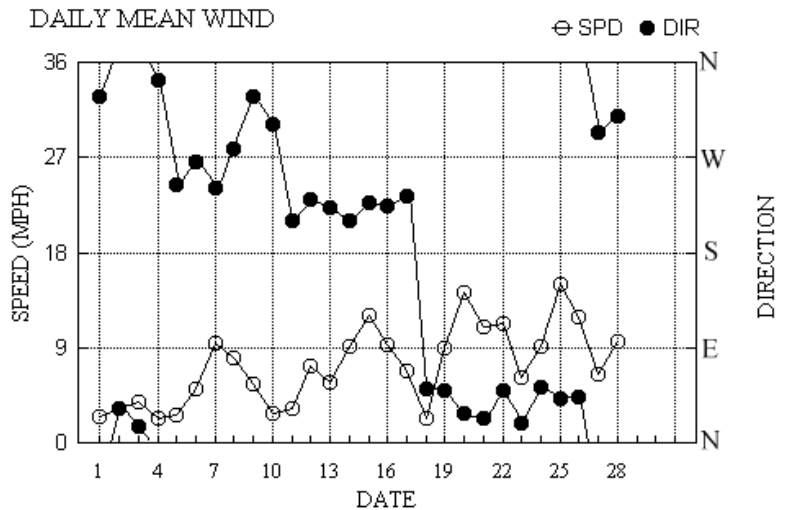
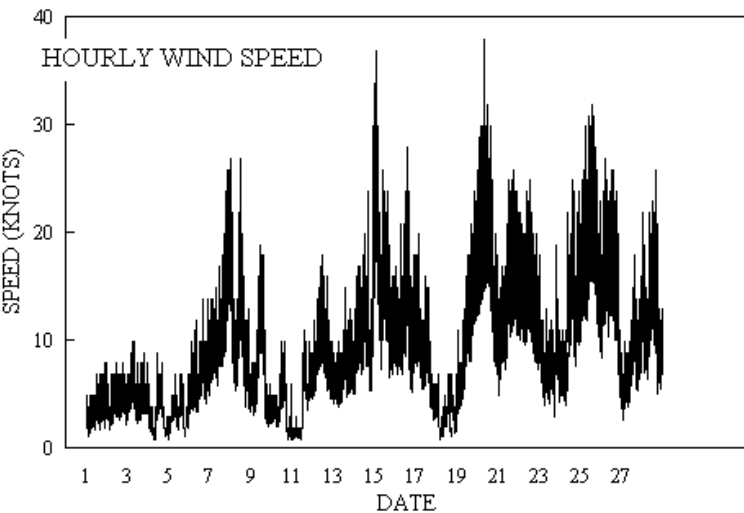
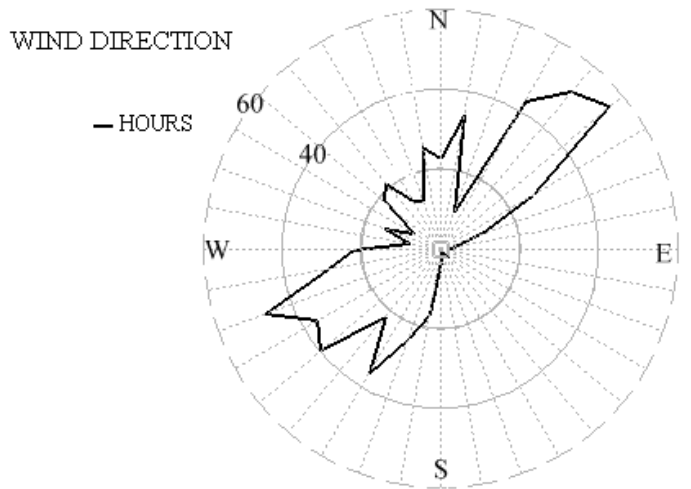
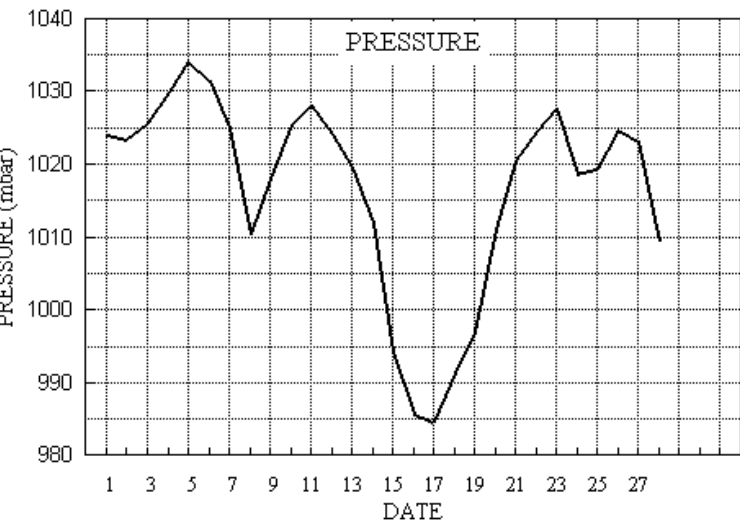
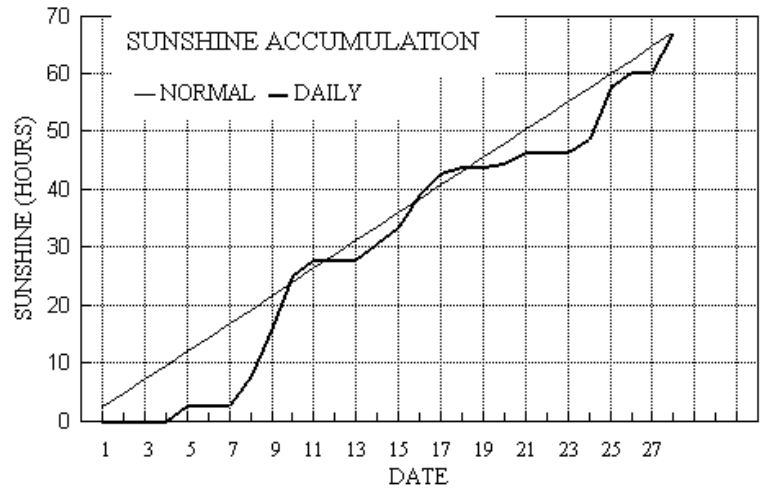
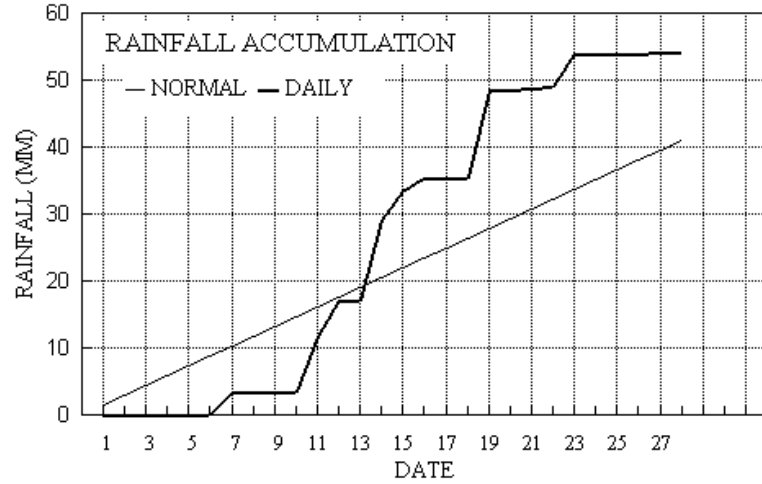
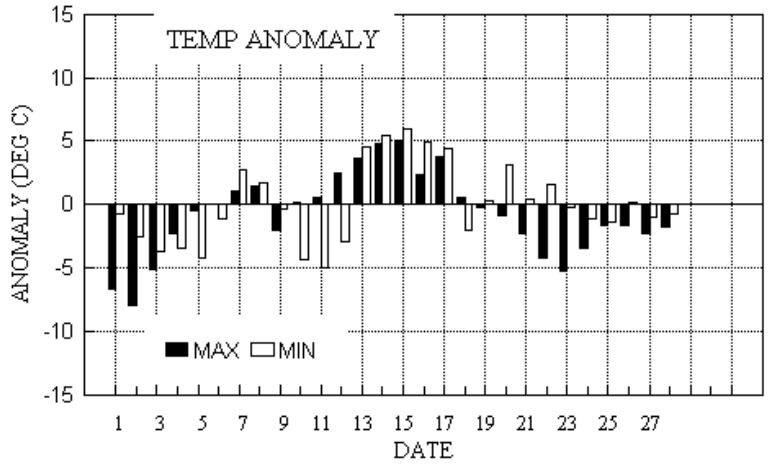
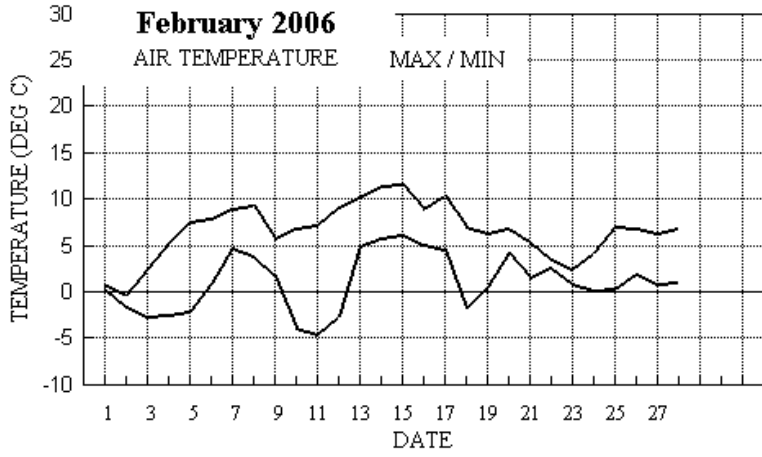
Notes: **Temperature well below normal, Rainfall well above normal, Sunshine near normal.**

Temperature: A colder than average month, with the mean maximum lowest since 1996. However, the mean minimum was almost equal to the long-term median, lifting the overall mean out of the very cold category by 0.3°. The highest maximum is 1.4° below the median, and lowest since 1993, while the lowest maximum is 2.8° below the median and lowest since 1991. The highest minimum is 1.9° below the median, and lowest since 1986, but the lowest minimum is 0.4° above the median. Also the lowest grass minimum is actually highest since 2002. Earth temperatures at 30 cm depth are lowest only since 2003, but at 1 metre depth, lowest since 1997. Of interest, the total range of temperature at that depth was only 0.5° over 28 days. The number of hours with frost is 8.1 below average. The number of days with air frost is also 2 fewer than average. **Rainfall.** This is the wettest February since 2002, with 31 % more than average. Had another 3 mm fallen the total would have qualified for the wet category. Snow fell on the 3rd, 23rd, 24th, 26th and 28th, but mostly melted as it fell, with lying snow at 09 GMT only on the 24th, with 70 % cover <0.5 cm depth. Falls of ice pellets or small hail occurred on the 16th, 21st and 26th. A 10 day dry spell ended on the 6th, and the number of dry days is 2 more than average. **Sunshine.** After a sunless 4 days at the start of the month, the accumulated total had a deficit of 14 hours by the 7th, then 3 sunny days returned this to zero where it remained until the 19th, thence dropping to 10 hours deficit by the 24th, recovering to zero by the 28th. Overall there were 21 days with <3 hours, 4 with =>6 hours and 1 with =>9 hours. **Wind.** The mean speed of 7.4 mph this February is 0.9 mph below average. The windiest day was the 25th, mean 15.0 mph, but the highest gust of 44 mph was on the 20th. The 4th and 18th were joint least windy days, mean 2.3 mph, and there was a total of 673 minutes (11.2 hours) with a speed of 0.5 mph or less. Daily mean direction/number of days: N,3 NE,9 E,0 SE,0 S,0 SW,9 W,2 NW,5. **Humidity.** The mean relative humidity was 80.8 %, and the lowest value reached was 34 % on the 28th. The mean water vapour content per kg of air was 4.2 g at 0900 GMT and 4.0 g at 1500 GMT. **Pressure.** The month's minimum pressure is lowest for February since 1997. **Commentary. From the 1st to the 10th:** Mean anomalies (max, min, rain, sun) -2.2°, -1.6°, 23 %, 104%. The month started with a cold spell, with the anomaly for the maximum on the 2nd, the month's coldest day, of -8.0°. This was a day with a full 24 hours of frost, the first since since 20 Dec 1999. It became less cold by the 8th, with an anomaly of +1.4° for the max on that day. Anomalies for minima ranged from -4.3° on the 10th to +2.7° on the 7th. Very little rain fell, just 3.4 mm on the 7th, although there was a trace from snow on the 3rd. Dull at first then sunny from the 8th. Very light N'y winds backed W'y on 5th, increased fresh on 7th, veered moderate NW'y on 9th. **From the 11th to the 20th:** Anomalies, +2.2°, +1.9°, 307 %, 79 %. This period was generally mild and wet. The month's mildest day and night on the 15th had anomalies of +5.0° and +5.9° for max and min resp. It became cooler on the 18th, and there was an anomaly of -0.9° for the max on the 20th. The month's coldest night was on the 11th, with an anomaly of -5.0° for the min. Only 4 dry days, but also 2 days with over 10 mm, and the month's wettest day on the 19th. Sunshine was poor, just 1 day with over 50 % of the max possible. Light SW'y winds on 11th increased strong on the 15th, decreased moderate on 16th, became light NE'y on 18th, increased to strong by 20th. **From the 21st to the 28th:** Anomalies -2.8°, -0.3°, 48 %, 118 %. Cool or cold throughout, at least by day. Anomalies for daily maxima ranged from -5.2° on the 23rd to -1.6° on the 25th. For minima the anomalies ranged from -1.4° on the 25th to +1.5° on the 22nd. Mostly small amounts of rain, except 4.7 mm on 23rd, and with snow falling on 4 days. Mostly rather dull, although the total was boosted by the month's sunniest day on the 25th, which had 86 % of the maximum possible. NE'y winds were fresh on 21st, decreased moderate on 23rd, increased strong on 25th, became moderate NW'y on 27th.

B J Burton. F.R.Met.S.

Hon. Met. Officer to Wokingham Town Council.

Wokingham Climatological Graphs



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: FEBRUARY 2006

Date	Max	Min	Rain	Grass	30cm	100cr	Sun	Frost	pp09	Af	Sf	Th	Ic	Vec mean			Max gust			High hr			Rain			
	C	C	mm	Min	C	C	hrs	hrs	mbar	Gf	Sl	Ha	Fg	ddd	ff	sp	ddd	gg	HHhh	ddd	ff	HH	hrs			
1	0.9	0.3	0.0	-3.3	4.6	6.8	0.0	1.9	1024.1	0	1	0	0	0	0	0	328	1.2	2.1	250	8	2101	290	4	12	0.0
2	-0.4	-1.6	0.0	-1.5	4.5	6.7	0.0	24.0	1023.3	1	1	0	0	0	0	0	32	2.5	2.8	70	8	1820	50	4	10	0.0
3	2.5	-2.7	tr	-2.7	4.3	6.7	0.0	15.2	1025.6	1	1	1	0	0	0	0	15	3.1	3.4	70	10	0505	10	5	05	0.0
4	5.3	-2.4	0.0	0.8	4.2	6.7	0.0	4.3	1029.8	1	0	0	0	0	0	0	343	1.5	2.0	30	9	1157	360	4	14	0.0
5	7.5	-2.1	0.0	-6.1	4.2	6.6	2.7	4.0	1034.1	1	1	0	0	0	0	1	245	2.0	2.3	300	7	1337	280	4	14	0.0
6	8.0	0.9	0.0	3.6	4.6	6.6	0.0	0.0	1031.5	0	0	0	0	0	0	0	266	4.2	4.5	300	14	1518	270	6	15	0.0
7	9.0	4.8	3.4	5.6	5.0	6.6	0.1	0.0	1025.0	0	0	0	0	0	0	0	242	8.2	8.3	230	27	2358	240	13	22	2.0
8	9.4	3.8	0.0	0.3	5.4	6.6	5.0	0.0	1010.4	0	0	0	0	0	0	0	279	6.4	7.0	310	27	1133	240	13	00	0.0
9	5.9	1.7	0.0	-2.4	5.1	6.7	8.6	4.3	1017.9	0	1	0	0	0	0	0	328	4.1	4.9	340	19	1027	340	10	10	0.0
10	6.9	-3.9	0.0	-9.1	4.6	6.7	8.7	15.3	1025.4	1	1	0	0	0	0	0	302	1.3	2.4	20	10	1223	350	5	15	0.0
11	7.2	-4.6	8.2	-8.4	4.0	6.6	2.6	10.5	1028.1	1	1	0	0	0	0	0	211	2.4	2.8	250	11	1327	240	6	14	5.7
12	9.2	-2.6	5.4	-4.6	3.8	6.6	0.0	0.0	1024.1	1	1	0	0	0	0	0	230	5.8	6.3	210	18	1009	220	8	10	9.0
13	10.3	4.9	0.1	6.5	4.6	6.5	0.1	0.0	1019.6	0	0	0	0	0	0	0	223	4.6	4.9	230	15	1315	240	7	14	0.2
14	11.5	5.8	12.0	5.0	5.5	6.4	2.9	0.0	1012.0	0	0	0	0	0	0	0	211	7.5	8.0	210	30	2257	190	5	00	6.9
15	11.6	6.1	4.3	2.1	5.8	6.5	2.8	0.0	994.2	0	0	0	0	0	0	0	227	9.9	10.4	200	37	0151	210	18	02	1.5
16	8.9	5.1	2.1	2.4	6.0	6.5	5.5	0.0	985.8	0	0	0	0	0	1	0	225	7.9	8.1	230	28	1311	230	12	13	0.8
17	10.4	4.6	0.0	-0.1	6.0	6.6	3.9	0.0	984.7	0	1	0	0	0	0	0	234	5.6	5.9	220	20	0401	220	9	00	0.0
18	7.1	-1.8	tr	-6.3	5.7	6.7	0.9	6.5	991.3	1	1	0	0	0	0	1	51	1.3	2.0	120	7	1832	110	3	18	0.0
19	6.4	0.5	13.1	-2.3	5.7	6.7	0.0	0.0	996.9	0	1	0	0	0	0	0	49	7.5	7.8	40	24	2001	30	12	22	9.4
20	6.8	4.3	tr	3.4	5.7	6.8	0.6	0.0	1011.0	0	0	0	0	0	0	0	28	12.2	12.4	40	38	0827	30	17	11	0.0
21	5.4	1.6	0.2	-1.1	5.5	6.9	2.1	0.0	1020.5	0	1	0	0	0	1	0	23	9.3	9.6	40	26	1854	40	12	20	1.2
22	3.5	2.7	0.4	1.9	5.4	6.8	0.0	0.0	1024.4	0	0	0	0	0	0	0	49	9.7	9.8	50	25	1259	50	12	10	1.5
23	2.5	0.9	4.7	-0.2	5.1	6.7	0.0	0.0	1027.5	0	1	1	0	0	0	0	19	4.0	5.3	70	19	2021	50	9	00	8.1
24	4.3	0.1	tr	-1.4	4.9	6.7	2.2	0.0	1018.6	0	1	1	1	0	0	0	52	7.7	7.9	60	25	1436	60	12	14	0.0
25	7.0	0.4	tr	0.2	4.8	6.7	9.1	0.0	1019.3	0	0	0	0	0	0	0	42	12.9	13.0	40	32	1232	40	16	12	0.0
26	6.9	1.9	tr	-0.1	4.8	6.6	2.4	0.0	1024.7	0	1	1	0	0	0	1	43	10.1	10.3	50	27	0439	50	13	04	0.0
27	6.3	0.8	0.4	-5.1	4.7	6.6	0.1	0.0	1023.1	0	1	0	0	0	0	0	294	4.6	5.6	300	18	1414	250	10	23	0.7
28	6.8	1.0	tr	-1.6	4.9	6.5	6.7	3.8	1009.3	0	1	1	0	0	0	0	310	7.7	8.3	320	26	1511	320	12	12	0.0
Total			54.3				67.0	89.8																		47.0
Mean	6.7	1.1		-0.9	5.0	6.6	2.39	3.2	1016.5								339	1.5	6.4							
Anom	-1.2	-0.2	131%		-0.1	-0.1	100%																			
Daily mean		3.9																								
Anom		-0.7																								
Number of days with:																										
Air frost = 8																										
Ground frost = 17																										
Nil sun = 9																										
Snow falling = 5																										
Snow lying = 1																										
Thunder = 0																										
Hail=>5mm = 0																										
Hail<5mm or ice = 3																										
Fog at 09GMT = 2																										

Abbreviations.

Max/min = highest and lowest air temperature at 1.2m in 24 hour period ending at 09 GMT
 Rain = total rainfall and melted snowfall in 24 hour period ending at 09 GMT, millimetres. (Tr = trace, <.05mm).
 Grass min = Lowest overnight temperature at grass tip level.
 Sun = hours of bright sunshine, measured electronically. Frost = Number of hours with air temp below 0 deg C.
 pp09 = Air pressure corrected to mean sea level at 0900 GMT, millibars.
 Af = Air frost. Gf = Ground frost. Sf = Snow falling. Sl = Snow lying at 09 GMT.
 Th = Thunder. Ha = Hail =>5mm. Ic = Hail <5mm or ice. Fg = Fog at 09 GMT.
 Vec mean = 24 hour mean wind vector, ddd = direction in degrees from true north, ff = speed in knots.
 Sp = 24 hour mean wind speed in knots.
 Max gust = Highest gust in 24 hours, gg = speed in knots, HHhh = Time, hours and minutes, GMT.
 High hr = Highest hourly mean wind, HH = hour commencing. Rain Hrs = Duration of rain, 24 hours to 09 GMT. Excludes snow/hail.
 30cm and 100 cm are earth temperatures at those depths, read at 09 GMT.
 Anom = Departure from 1971-2000 climatological average.
 All temperatures in degrees Celsius.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for FEBRUARY 2006

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	hshs	NChshs	Date	Remarks
1	40	8	03	02	04	0.4	-0.7	92	3.5	1024.1	1	002	05	2	2	8	6	3	/	/	88706				1	
2	23	8	01	04	08	-1.5	-2.6	92	3.1	1023.3	1	003	05	2	2	8	6	3	/	/	88706				2	
3	50	8	36	03	08	-2.4	-4.3	87	2.7	1025.6	3	011	05	2	2	8	6	3	/	/	88708				3	
4	50	8	31	01	02	2.5	0.2	85	3.8	1029.8	1	018	05	2	2	8	5	5	/	/	88625				4	
5	01	9	25	02	06	0.9	0.9	100	4.0	1034.1	2	010	45	4	4	9	/	/	/	/					5	vv 110m
6	60	8	32	07	13	4.8	1.2	78	4.1	1031.5	3	008	02	2	2	8	5	4	/	/	82618	88622			6	
7	63	8	25	07	12	8.0	5.6	85	5.6	1025.0	6	002	02	2	2	8	5	6	/	/	88635				7	
8	84	1	28	08	15	5.5	2.3	80	4.5	1010.4	3	012	02	0	0	1	5	6	0	8	81645				8	1Cs75 COTRA
9	86	5	34	08	14	2.9	-4.0	60	2.8	1017.9	3	028	01	2	2	5	5	7	0	1	85650				9	1Ci75
10	81	3	23	02	04	-1.1	-3.4	84	2.9	1025.4	3	013	03	0	0	3	5	6	0	1	81640	83650			10	1Ci80 COTRA Hoar slt. Gnd sfc frzn
11	50	8	05	01	02	-2.6	-2.9	98	3.0	1028.1	2	003	10	2	2	1	0	9	3	7	81368	88275			11	COTRA Hoar mod Gnd sfc frzn Halo 22°+parhelia
12	56	8	22	07	16	4.9	4.2	95	5.1	1024.1	8	006	63	6	6	7	7	3	2	/	85707	87710	88520		12	
13	56	8	25	04	09	8.4	7.3	93	6.3	1019.6	4	000	05	2	2	7	5	4	7	/	82615	87625			13	/Ac65 /As68
14	35	8	21	08	17	6.3	5.6	95	5.7	1012.0	5	000	60	6	2	8	5	2	/	/	83705	87708	88612		14	
15	62	6	25	08	16	9.4	7.1	85	6.4	994.2	1	026	03	1	1	6	8	4	0	0	84815	83640			15	
16	89	6	23	07	16	5.2	4.0	92	5.2	985.8	6	009	21	8	6	1	8	4	7	3	81812	86070			16	1Sc45 2Ac62 2As65 COTRA Cb top W
17	82	7	23	07	13	6.2	4.6	89	5.4	984.7	3	020	02	2	2	8	5	0	1	1	81825	87640			17	2Sc35 /Ci75 COTRA Cu hum
18	02	8	36	01	03	0.4	0.4	100	4.0	991.3	3	014	42	4	4	8	6	2	/	/	88705				18	
19	45	8	06	06	11	5.7	5.0	95	5.5	996.9	3	010	10	2	2	8	6	2	/	/	88705				19	
20	75	7	04	14	38	5.3	0.1	69	3.8	1011.0	2	039	01	2	2	2	8	5	1	8	82828	87270			20	1Sc35 2As67 COTRA Halo 22° part Cu hum
21	63	6	01	08	14	2.7	0.9	88	4.0	1020.5	2	010	01	6	2	5	2	4	3	0	85710	85357			21	1Cu15 Cu med N
22	60	8	04	09	22	3.1	1.6	90	4.2	1024.4	3	013	60	6	2	8	5	4	/	/	84710	87615	88625		22	
23	35	8	01	07	11	1.3	-0.1	91	3.7	1027.5	6	004	70	7	2	4	7	4	2	/	82715	83645	88550		23	
24	15	8	07	05	11	0.4	-0.4	94	3.6	1018.6	2	013	85	8	2	8	8	4	/	/	82710	87820	88635		24	Sn lnyg 70% <0.5cm. Snow pellets 0755-0830
25	72	7	05	13	26	2.4	-2.2	72	3.2	1019.3	1	010	01	2	2	1	1	5	0	1	81820	87075			25	COTRA Cu fra Parhelia
26	70	8	05	11	21	1.9	-1.5	78	3.3	1024.7	2	027	70	7	2	8	5	5	/	/	86620	88625			26	
27	80	8	32	05	10	3.6	0.1	78	3.8	1023.1	7	007	02	2	2	8	5	7	/	/	88650				27	
28	88	1	33	11	23	2.9	-2.6	67	3.1	1009.3	3	002	01	1	1	1	8	5	0	0	81820				28	1Sc35 Cu fra

Mean vis = 19.0 km
 Mean cloud = 6.9 86%
 Mean wind speed = 6.3 kn
 Mean gust = 13 kn
 Mean TT = 3.1 C
 Mean TdTd = 0.9 C
 Mean RH = 86.1 %
 Mean r = 4.2 g/kg
 Mean PPP = 1016.5 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 2006

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	30	8	03	02	05	0.8	-1.1	87	3.5	1023.1	8	006	05	2	2	8	6	4	/ /	88710	1				
2	38	8	07	02	07	-0.5	-3.0	83	3.0	1023.2	5	003	05	2	2	8	6	4	/ /	88710	2				
3	56	8	36	02	06	-0.1	-2.6	83	3.1	1025.0	7	006	70	7	2	8	5	4	/ /	87712	88614	3	Pptn v slit		
4	59	8	01	04	08	5.1	0.4	72	3.8	1030.7	5	000	05	2	2	8	5	5	/ /	83625	88630	4			
5	60	7	29	03	07	6.9	3.5	79	4.8	1033.1	7	005	03	1	1	7	5	6	/ /	81630	87635	5	COTRA		
6	60	8	26	06	10	7.4	2.1	69	4.3	1029.6	7	011	02	2	2	8	5	6	/ /	87635	88640	6			
7	82	8	24	08	15	8.4	4.0	74	5.0	1020.6	8	032	02	2	2	8	8	5	/ /	81822	88640	7			
8	86	3	32	08	20	9.0	0.6	56	4.0	1011.4	1	004	02	1	1	3	8	6	0	1	82835		8	1Sc45 1Ci78 COTRA Cu hum/med	
9	88	1	35	09	16	5.4	-6.5	42	2.3	1019.6	3	009	02	0	0	1	8	7	0	0	81848		9	1Sc50 Cu hum	
10	83	2	35	05	10	6.4	-5.9	41	2.4	1025.2	6	001	02	0	0	1	8	6	0	1	81838		10	1Sc48 2Ci80 COTRA Cu hum	
11	80	3	23	06	11	7.1	-1.1	56	3.5	1027.0	7	004	01	1	1	2	8	6	3	1	81835	83078	11	1Sc56 1Ac65 COTRA Cu hum/med	
12	59	8	25	07	12	8.8	8.5	98	6.9	1020.5	6	019	63	6	6	7	7	3	2	/	82708	87712	88520	12	
13	67	7	24	06	12	10.1	6.8	80	6.1	1018.1	7	014	02	2	2	7	8	4	/ /	82818	87640	13			
14	81	2	23	09	20	11.3	4.1	61	5.1	1010.8	7	010	25	8	1	2	8	5	6	0	81825		14	1Sc45 1Ac59 Cu med jp N&S	
15	70	7	24	10	23	11.3	5.2	66	5.6	993.1	8	016	03	1	1	3	8	5	3	2	83828	86070	15	1Sc45 2Ac65 Cu med	
16	88	3	24	11	20	8.4	1.9	64	4.5	983.9	7	014	01	8	1	1	8	5	6	3	81828	83070	16	1Sc45 1Ac60 COTRA Cb top E	
17	82	5	25	08	16	9.3	1.3	57	4.3	987.6	2	014	01	1	1	1	8	6	3	2	81838	85072	17	1Sc50 1Ac68 COTRA Cu med	
18	61	7	03	03	07	7.0	3.6	79	5.0	992.9	3	005	03	4	2	2	8	4	3	2	81818	87072	18	2Sc40 1Ac68 Cu med	
19	30	8	06	09	19	6.2	5.6	96	5.8	997.1	5	000	65	6	2	7	7	2	2	/	83705	87708	88515	19	
20	78	7	02	13	23	6.2	0.0	64	3.8	1014.7	2	017	15	2	2	4	8	6	3	2	83832	87075	20	2Sc45 2Ac62 COTRA Cu med jpN	
21	62	6	03	10	25	4.6	-0.5	70	3.6	1019.9	6	005	80	8	2	5	8	5	3	0	83820	83645	21	3Ac57 Cu med vv25k ex p lce pellets 1420z	
22	60	8	06	12	25	3.1	0.3	82	3.8	1026.1	3	006	21	6	2	8	5	4	/ /	86615	88620	22			
23	56	8	32	06	11	2.1	1.3	95	4.1	1022.0	7	039	69	7	6	7	7	3	2	/	87706	88515	23	95% rain	
24	65	7	06	14	24	3.5	-1.5	70	3.4	1019.8	0	005	03	2	2	7	8	5	0	0	84825	86635	24		
25	80	1	04	15	31	6.6	-4.3	45	2.7	1018.2	6	007	02	0	0	1	1	6	0	1	81835		25	1Ci75 Cu hum/tra	
26	84	6	05	12	23	5.9	-4.2	48	2.7	1025.0	6	006	02	2	2	6	8	6	0	1	82840	85645	26	2Ci75 COTRA Cu hum	
27	84	8	29	07	19	5.3	-1.5	61	3.4	1019.2	7	026	15	2	2	8	8	6	/ /	81835	83640	88650	27	Cu hum/med jpSE&W	
28	86	4	33	09	23	5.0	-7.9	39	2.1	1007.6	6	013	15	1	1	2	2	7	6	0	82850	83362	28	Cu med jp N&NW	

Mean vis = 26.9 km
 Mean cloud = 5.9 74%
 Mean wind speed = 7.7 kn
 Mean gust = 16 kn
 Mean TT = 6.1 C
 Mean TdTd = 0.3 C
 Mean RH = 68.5 %
 Mean r = 4.0 g/kg
 Mean PPP = 1015.9 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.

Wokingham Psychrometer
 Daily means and extremes, 00-24 GMT
 FEBRUARY 2006

Date	Mean			Max			Min			Missing RH	Number of minutes RH in given ranges								
	TT	TT	Time	TT	Time	RH	RH	Time	RH		Time	N >0	0-20	20-40	40-60	60-80	80-90	90-95	95-98
01	0.5	1.3	00:18	-0.2	23:59	88.7	91.8	07:26	85.0	13:10		0	0	0	0	1050	390	0	0
02	-0.9	-0.1	00:05	-1.7	07:09	90.9	94.6	22:53	82.7	14:48	42	0	0	0	0	387	1011	0	0
03	-0.5	2.0	22:52	-2.7	08:05	89.0	98.9	07:34	78.1	18:18	59	0	0	0	93	753	147	193	195
04	2.6	5.3	14:29	-0.8	23:29	83.1	94.2	23:16	69.7	14:30		0	0	0	379	787	274	0	0
05	3.7	7.6	13:39	-0.4	00:00	90.7	100.0	12:00	72.9	13:35		0	0	0	158	522	311	174	275
06	6.1	7.6	15:13	4.8	06:03	75.1	87.8	00:23	64.9	15:30		0	0	0	1040	400	0	0	0
07	7.9	9.1	11:36	6.9	00:00	76.9	88.6	23:59	67.2	11:36		0	0	0	1125	315	0	0	0
08	6.2	9.4	14:46	2.7	23:59	74.6	96.3	01:39	54.2	14:45		0	0	208	650	432	99	51	0
09	2.9	5.9	13:08	-1.2	23:56	64.1	87.3	06:02	36.5	13:10		0	130	464	439	407	0	0	0
10	0.9	6.8	13:27	-3.0	06:48	74.4	99.6	07:39	38.2	14:24	73	0	12	359	374	390	72	75	85
11	1.2	7.4	14:58	-3.6	06:58	80.8	97.1	07:56	54.6	15:03	62	0	0	167	616	80	248	267	0
12	6.7	9.2	16:01	3.3	00:00	93.5	98.4	12:12	77.6	01:51		0	0	0	185	45	337	749	124
13	8.7	10.5	11:59	7.4	23:56	89.3	96.7	07:46	77.7	16:56		0	0	0	83	706	196	455	0
14	8.0	11.5	14:54	5.9	08:09	81.8	94.9	08:58	59.1	15:07		0	0	8	430	790	212	0	0
15	8.8	11.8	15:03	6.7	23:03	84.0	96.5	05:55	62.4	15:17		0	0	0	502	429	373	136	0
16	6.4	9.0	13:12	4.6	20:48	83.4	94.3	07:57	63.1	14:50		0	0	0	438	640	362	0	0
17	6.4	10.4	13:16	2.1	22:21	78.1	94.2	22:51	50.9	13:20		0	0	293	329	591	227	0	0
18	3.1	7.1	14:45	-1.6	06:23	92.6	100.0	06:23	77.2	14:42	34	0	0	0	91	283	430	214	388
19	5.3	6.6	13:38	4.2	03:03	95.6	97.9	21:10	89.2	11:57		0	0	0	0	49	401	990	0
20	4.6	6.8	14:24	2.0	23:58	76.9	96.8	00:01	54.6	13:42		0	0	127	745	423	100	45	0
21	3.2	5.4	11:59	1.3	00:50	77.7	89.5	07:23	54.2	12:01		0	0	26	766	648	0	0	0
22	2.7	3.5	10:37	1.6	23:59	84.7	93.1	04:10	73.6	22:32		0	0	0	424	650	366	0	0
23	1.6	2.3	14:03	0.5	23:02	87.1	97.4	19:29	72.0	03:31		0	0	0	483	203	246	508	0
24	1.7	4.3	12:27	-0.0	08:20	81.9	99.2	10:21	56.6	12:30		0	0	12	781	69	435	89	54
25	3.5	7.0	13:50	1.3	07:56	67.2	84.2	21:59	39.3	13:52		0	2	383	891	164	0	0	0
26	3.7	6.9	14:41	1.7	09:09	65.3	81.4	01:44	40.9	14:38		0	0	444	844	152	0	0	0
27	3.9	6.3	13:47	1.2	01:11	71.3	84.4	01:13	51.4	13:45		0	0	268	725	447	0	0	0
28	2.8	6.8	13:04	-0.4	23:43	64.3	90.7	01:41	34.5	15:39		0	193	414	381	416	36	0	0
Mean	4.0	6.7		1.5		80.8	93.8		62.1			0.00	0.20	1.89	7.72	7.28	3.73	2.35	0.67
Hi	8.8	11.8		7.4		95.6	100.0		89.2	Tot	270	0	337	3173	12972	12228	6273	3946	1121
Lo	-0.9	-0.1		-3.6		64.1	81.4		34.5										

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.

WOKINGHAM METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

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

Seasonal Means and Totals

WINTER 2005/2006

Temperature (°C)	Rank in the past 124 years										
Mean maximum	7.3	(-0.5)	50 th lowest								
Mean minimum	1.2	(-0.5)	60 th lowest								
Daily mean	4.3	(-0.5)	55 th lowest								
Rainfall total (mm)	128.7	(78 %)	39 th lowest								
Sunshine total (hours)	220.8	(123 %)									
N° of: Dry days	58	(+14)	Wet days	21	(-10)						
Days with: Air frost	37	(+8)	Ground frost	52	(-1)	Snow falling	12 (+2)	Snow lying	2 (-3)		
Thunder	0	(-1)	Hail ≥5mm	0	Small hail/ice	5	Fog @09 GMT	6	(-1)	Nil sun	22
Air pressure MSL : Mean @09 GMT (mbar)	1019.5			+3.4							

Departure from 1971 to 2000 average shown in brackets.

Notes: **Temperature below normal, Rainfall well below normal, Very Sunny.**

Temperature. In terms of the overall mean this winter is the coldest since 1997, much in line with the widely publicised Met Office prediction. For the mean minimum, it is equal coldest with 1997, 96 and 92 since 1991. Compared with the past 124 winters this one is just 0.2° below the median. The season's highest temperature, 13.0° on 25th February, is 0.7° below the median and lowest since 1996. The season's lowest was -6.0° on the 18th December, 1.5° above the median. The lowest maximum, -0.4° on 2nd February, is exactly on the median but is lowest since 1997. The highest minimum, 8.0° on the 19th January, is 1.9° below the median and is lowest since 1977 and 6th lowest in 93 years. The highest daily mean temperature, 9.8° on 16th December, is also lowest since 1977. The mean grass minimum, -1.4°, is lowest only since 2001, and the lowest grass minimum, -10.2° on 18th December, is 2.8° above average. Mean earth temperatures at both 30 cm and 1 metre depth, 5.4° and 7.7° resp., are lowest since 1997. The number of hours with frost, 298, is 15 (5 %) more than average, and is most since 1997. The number of days with air frost is equal highest with 1997 since 1992. February was the coldest month and January the mildest. **Rainfall.** The total for this winter is 22 % below average, but is over 50 mm more than fell in the previous winter. In the context of the past 20 years, this winter ranks 7th driest. Had there been just 1.8 mm less rain the total would have been in the dry category. February was the wettest month and January the driest. December 1st was the wettest day, 24.4 mm, and this is the highest daily fall in winter since 1996. Dry spells were: 10 days ending on 17Dec, 7 days on 25Dec, 7 days on 26Jan and 10 days on 6Feb. The number of dry days is 14 more than average, and most since 1992. The total rainfall duration, 123.3 hours, is 44.7 hours fewer than average. Snow fell on 3 days in December, 4 in January and 5 in February. There was snow lying at 09 GMT on 28Dec and 24Feb, both <0.5 cm depth. There were falls of small hail on 29Dec, 5Jan, 16Feb, 21Feb and 26Feb. With the current interest in possible water restrictions, listed below are the surplus(+)/deficit (-) rainfall values for Wokingham since 1978. Each figure is the 24 month anomaly in mm to the end of Feb. Only years with >200 mm anomaly are shown. 1983;+224, 1991;-217, 1992;-444, 1997;-238, 1998;-294, 2001;+361, 2002;+378. 2003;+246, 2005;-217, 2006;-220. It should be noted that the current deficit is not exceptional, see 1992 for instance. **Sunshine.** A sunnier winter than average, and the daily mean of 2.45 hours is most since 2003. The sunniest day was 25th February with 9.1 hours. There were 22 days with nil sunshine, 8 fewer than average. Overall there were 57 days with <3 hours, 11 with =>6 hours and 1 with =>9 hours. December was the sunniest month, mean 2.85 hours, and January the dullest with 2.11 hours. **Wind.** The mean wind speed of 6.1 mph this winter is 2.0 mph below average, and lowest since before 1988. The windiest day was 25th February, mean 15.0 mph, and the season's highest gust of 44 mph was on the 20th February. This is equal lowest with 1989 in the past 19 years, and 15 mph below average. The 11th December was the least windy day, 0.7 mph, and there were 2122 minutes (35.4 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,9 NE,24 E,2 SE,2 S,8 SW,25 W,8 NW,12. **Humidity.** The overall mean relative humidity was 84.5 %. The lowest value was 34 % on the 28th February. The mean water vapour content per kg of air was 4.6 g at 0900 GMT and 4.5 g at 1500 GMT. **Pressure.** The seasons highest was 1041.7 mbar on the 12th December and the lowest was 975.1 mbar on the 2nd December, lowest since 1990.

December: Temperature and rainfall below normal, very sunny. Both the highest max and highest min are lowest since 1981. Earth temperatures lowest since 1996. Probably 2nd sunniest in 98 years. Mean wind speed 2nd lowest in 19 years.

January: Dry and sunny with mean temperature near normal. Most dry days since 2000. Mean wind speed lowest since 1997.

February: Temperature well below normal, rainfall well above normal, sunshine near normal. Mean max lowest since 1996. Highest max lowest since 1993. Lowest max lowest since 1991. Highest min lowest since 1986.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Wind Mn mph	Max gust	Mean pressure	Anom
Dec	7.8	-0.5	0.5	-2.0	54.6	85 %	88.3	168 %	5.4	38	1018.4	+3.3
Jan	7.2	-0.3	2.1	+0.6	19.8	32 %	65.5	111 %	5.9	38	1023.4	+7.4
Feb	6.7	-1.2	1.1	-0.2	54.3	131 %	67.0	100 %	7.4	44	1016.5	-0.2

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