

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

JANUARY 2006

Temperature (°C / °F)			Anomaly	Rank in past 125 years			
Mean maximum	7.2	45.0	-0.3	59 th highest			
Mean minimum	2.1	35.8	+0.6	38 th highest			
Daily mean	4.7	40.5	+0.2	49 th highest			
Highest maximum	13.0	55.4	on 18 th	Lowest maximum	3.5	38.3	on 24 th
Highest minimum	8.0	46.4	on 19 th	Lowest minimum	-5.1	22.8	on 25 th
Mean grass minimum	-0.9	30.4		Lowest grass minimum	-10.2	13.6	on 25 th
Mean earth @30 cm	5.5	41.9	+0.3	Earth @100 cm	7.5	45.5	+0.2
Frost duration (hrs)	73.9			Rain duration (hrs)	36.3		
Rainfall total (mm / in)	19.8	0.78	32 %	17 th lowest			
Highest daily fall	8.0	0.31	on 8 th				
Number of: Dry days (<0.2mm)	20	Wet days (>0.9mm)	7	days ≥5mm	1		
Sunshine total (hrs) 65.5	Daily mean 2.11	111 %		Sunniest day	8.5	on 29 th	
N ^o days with: Air frost 12	Ground frost 14	Snow falling 4	Snow lying 0				
Thunder 0	Hail ≥5mm 0	Small hail/ice 1	Fog @09 1	Nil sun	10		
Air pressure MSL : Mean @09 GMT (mbar/in)	1023.4	+7.4	30.22				
Absolute highest	1038.3		30.66	on 22 nd			
Absolute lowest	993.2		29.33	on 1 st			

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

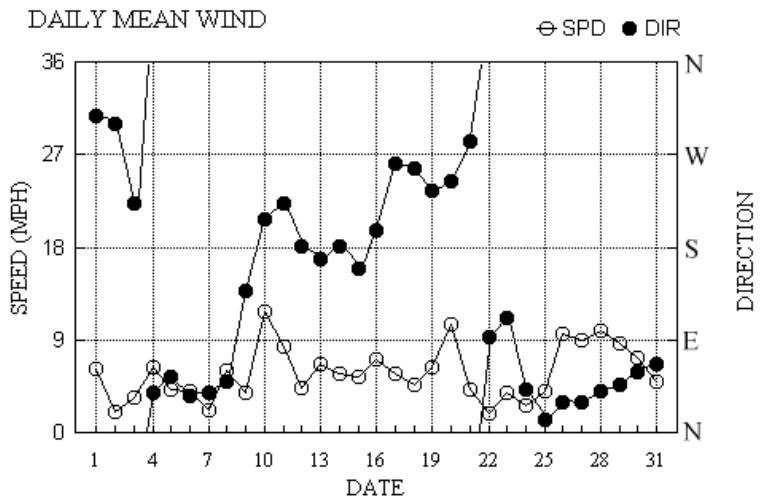
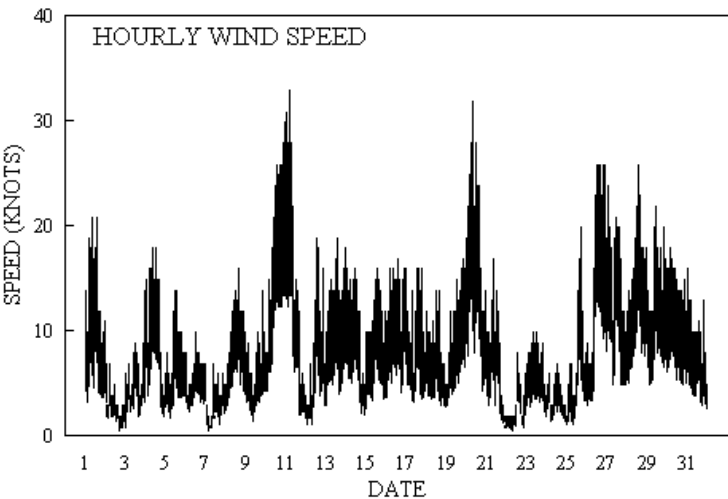
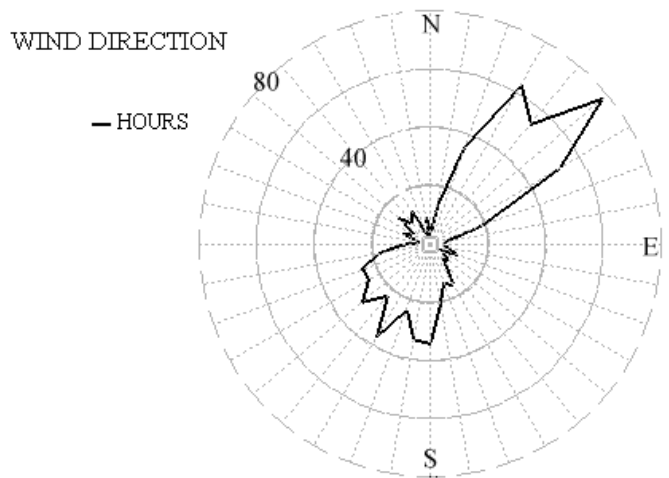
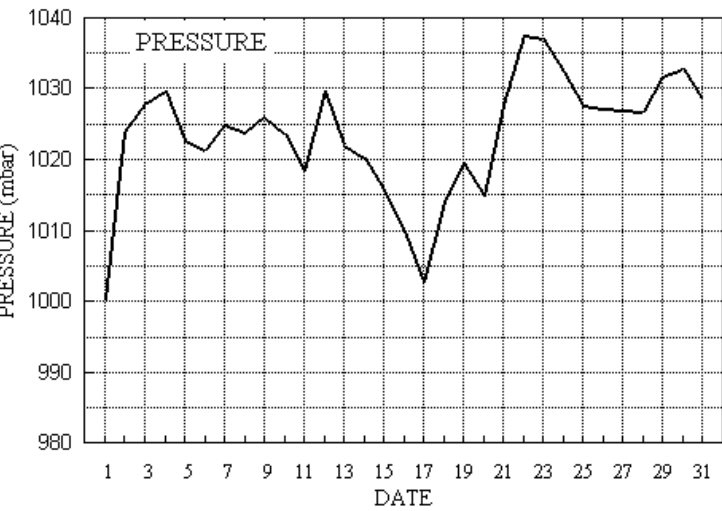
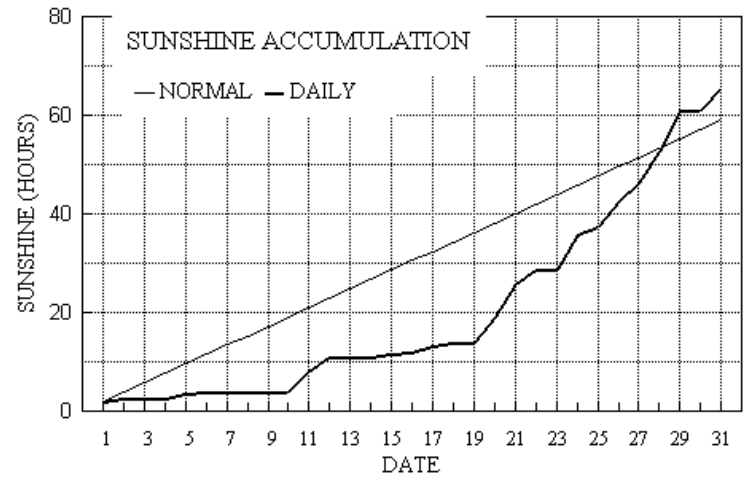
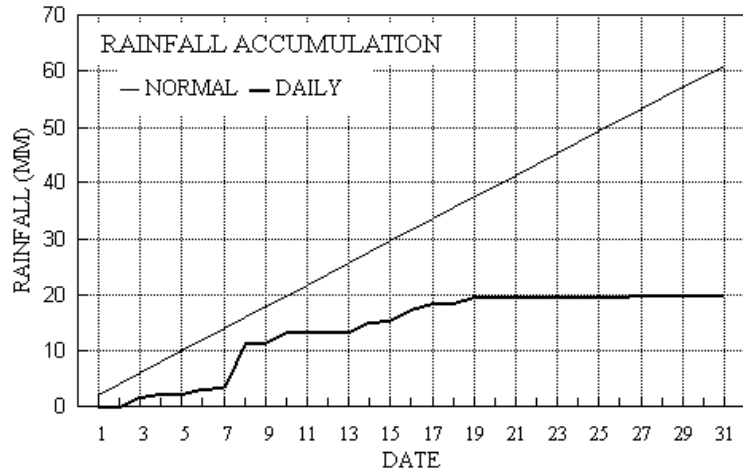
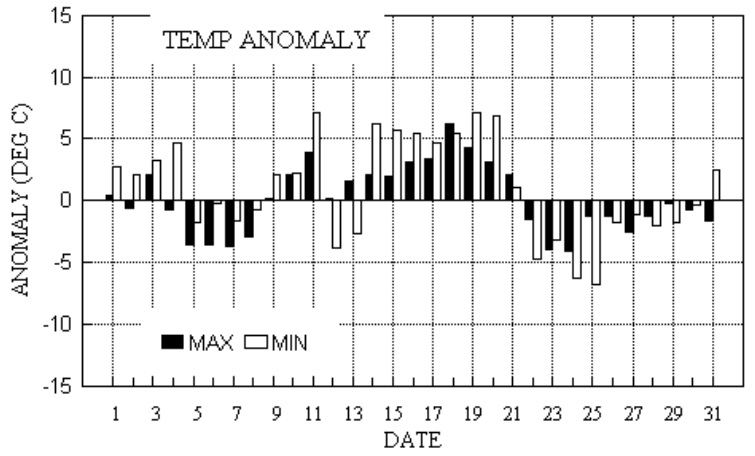
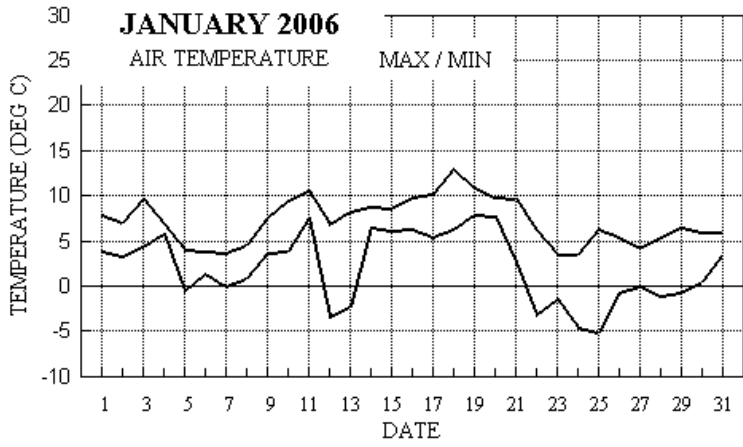
Notes:

Dry and Sunny with Mean Temperature Near Normal

Temperature. The mean this January is slightly above the current 30 year climatological average, and is also 0.4° above the long-term median. Although the mean maximum is 0.1° above the median it is lowest since 2001. The mean minimum, however, is 0.7° above its median and is lowest only since 2003. The month's highest temperature is 0.6° above the median, and the month's lowest is similarly 0.8° above its median. The lowest maximum is 2.7° above the median, while the highest minimum is almost on the median. Earth temperatures at 30 cm and 1 metre depth are lowest since 2002. Although the number of days with air frost is equal highest with 2003 since 2001, the number of hours with frost is almost half that in both 2001 and 2003, and is 22 below average. **Rainfall.** A dry month with only about one third of average, and the driest January since 2000. Just 2 mm less would have put it into the very dry category. Only 0.2 mm of rain fell after the 20th, with a 7 day dry spell ending on the 26th. The number of dry days is most since 2000. Snow fell on the 5th, 6th, 7th and 27th, but mostly together with rain, and never enough to lay. Small hail was recorded on the 5th. **Sunshine.** Although above average, this month's total is lowest for January since 2002. It was generally dull until the 19th, with a deficit of 23 hours by that date, but a sunny end to the month more than made up for this. The highest daily total, 8.5 hours in the 24th, is 94 % of the maximum possible, and equal January highest with 2004 in the past 28 years. There were 20 days with <3 hours and 4 with =>6 hours. **Wind.** The mean speed this month of 5.9 mph is 2.3 mph below average and lowest since 1997. The 10th was the windiest day, mean 11.7 mph, and this is a new lowest in the past 19 years. The highest gust of 38 mph was on the 11th, and is also lowest since 1997. The least windy day was the 22nd, 1.8 mph, and there were 643 minutes, 10.7 hours, with a mean speed of 0.5 mph or less (based on the sonic 1 minute average values). Daily mean direction/number of days: N,1 NE,12 E,2 SE,1 S,5 SW,5 W,3 NW,2. **Pressure.** While the mean pressure is well above average it is only highest since 2000, and has been equaled or exceeded in 5 of the past 30 Januarys. **Humidity.** The overall mean relative humidity was 85.1 %, and the lowest value recorded was 48 % on the 29th. The mean water vapour content per kg of air was 4.8 g at 0900 and 4.7 g at 1500 GMT. **Commentary. From the 1st to the 10th:** Mean anomalies (max, min, rain, sun) -1.0°, +1.3°, 67 %, 21 %. Temperatures were generally near or below normal, with daily anomalies for max between +2.1° on 10th and -3.7° on 7th, and +4.6° on 4th and -1.8° on 5th for minima. This was the wettest period of the month, and the month's wettest day was on the 8th, yet still only two thirds of normal rainfall for the 10 days, and 4 days were dry. Snow fell on the 5th, 6th and 7th. A very dull period with 5 days having nil sun, and 1.9 hrs on 1st the highest. Mainly light or moderate winds started NW'ly, becoming E'ly on 4th, veering SE'ly on 9th and increasing fresh SW'ly on 10th, the month's windiest day. **From the 11th to the 20th:** Mean anomalies +3.0°, +4.2°, 33 %, 79 %. This period contains a lengthy mild spell, with daily anomalies for max from +0.2° on 12th to +6.2° on 18th, the month's mildest day. Daily anomalies for min ranged from -3.8° on 12th to +7.1° on 19th, the month's mildest night. Again 5 dry days, but only small amounts on the others. Quite dull again with 3 days nil sun and just 2 with >50 % of the maximum possible. Fresh SW'ly winds on 11th became light or moderate S'ly on 12th, veering W'ly on 17th, increasing fresh on 20th. **From the 21st to the 31st:** Mean anomalies -1.5°, -2.2°, 1 %, 220 %. The mild spell ended on 21st and was followed by a cool episode. Daily max had anomalies between +2.1° on 21st to -4.1° on 24th, the month's coldest day, and for min anomalies of +2.5° on 31st to -6.8° on 25th, the month's coldest night. Only 0.2 mm of rain in total, and this a mixture of rain and snow on 27th. 2 days with nil sun, but 6 with >50 % of maximum, including 8.5 hours on 29th, the month's sunniest day. Light and variable winds became moderate or fresh NE'ly on 26th, dropping light on 31st.

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

Wokingham Climatological Graphs



Month: JANUARY 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	8.0	3.9	tr	0.4	4.9	7.5	1.9	0.0	1000.2	0	0	0	0	307	4.5	5.4	320	21	0802	310	8	10	0.1	
2	7.0	3.3	tr	-1.7	4.3	7.5	0.5	0.0	1023.8	0	1	0	0	300	1.1	1.8	340	10	0013	350	4	00	0.0	
3	9.7	4.4	1.6	1.3	5.5	7.5	0.0	0.0	1027.9	0	0	0	0	223	1.4	3.0	30	14	2359	220	5	11	4.9	
4	6.9	5.8	0.5	2.8	6.0	7.5	0.1	0.7	1029.6	0	0	0	0	39	5.3	5.5	30	18	0857	40	9	11	1.1	
5	4.0	-0.6	tr	-5.7	5.8	7.5	0.8	0.0	1022.6	1	1	1	0	54	3.4	3.6	90	14	1149	90	5	11	0.5	
6	3.8	1.4	0.8	0.1	5.5	7.5	0.3	0.0	1021.3	0	0	1	0	36	3.4	3.4	40	10	1212	20	5	12	0.8	
7	3.7	-0.1	0.3	-3.7	5.3	7.5	0.0	0.8	1025.0	1	1	1	0	39	1.6	1.8	40	7	0828	40	3	00	1.9	
8	4.5	0.9	8.0	0.2	5.2	7.5	0.0	0.0	1023.8	0	0	0	0	50	5.1	5.2	50	16	1540	50	7	15	11.3	
9	7.5	3.7	tr	3.3	5.3	7.5	0.0	0.0	1026.1	0	0	0	0	137	1.2	3.3	190	14	2037	200	7	20	0.0	
10	9.5	3.8	2.0	-0.5	5.5	7.5	0.0	0.0	1023.5	0	1	0	0	208	10.1	10.2	210	30	2240	210	15	20	4.2	
11	10.6	7.5	tr	6.9	6.0	7.4	4.4	1.6	1018.4	0	0	0	0	223	6.8	7.3	220	33	0520	210	15	00	0.0	
12	6.9	-3.4	tr	-7.9	5.7	7.5	3.0	9.5	1029.7	1	1	0	0	181	3.3	3.8	190	19	1237	190	8	13	0.0	
13	8.2	-2.3	tr	4.3	5.4	7.5	0.0	0.0	1022.1	1	0	0	0	169	5.6	5.7	160	19	1340	150	8	13	0.0	
14	8.8	6.6	1.9	4.1	5.8	7.5	0.0	0.0	1020.1	0	0	0	0	181	5.0	5.0	180	16	1055	190	8	00	3.5	
15	8.6	6.1	0.1	1.0	6.1	7.5	0.5	0.0	1015.8	0	0	0	0	159	4.6	4.7	180	16	1232	180	8	12	0.3	
16	9.9	6.3	2.1	2.6	6.2	7.5	0.3	0.0	1009.9	0	0	0	0	196	5.7	6.2	200	17	1343	210	9	21	3.8	
17	10.2	5.5	1.1	2.4	6.4	7.5	1.2	0.0	1002.7	0	0	0	0	261	4.3	5.0	280	16	1910	300	8	14	2.1	
18	13.0	6.3	tr	0.3	6.5	7.5	0.8	0.0	1013.9	0	0	0	0	256	3.6	4.0	320	14	1245	290	6	12	0.0	
19	11.0	8.0	1.2	3.8	7.0	7.6	0.0	0.0	1019.5	0	0	0	0	235	5.4	5.5	220	18	2313	230	9	23	1.2	
20	9.9	7.7	0.0	6.5	7.4	7.6	5.1	0.0	1014.8	0	0	0	0	244	8.6	9.1	270	32	0755	230	13	06	0.0	
21	9.7	2.7	0.0	-2.1	7.0	7.7	6.7	2.2	1027.6	0	1	0	0	283	2.6	3.6	330	17	0812	310	7	08	0.0	
22	6.1	-3.1	0.0	-7.4	6.2	7.8	3.1	14.2	1037.4	1	1	0	0	93	0.9	1.6	90	8	1224	80	4	13	0.0	
23	3.6	-1.5	0.0	-5.6	5.6	7.8	0.0	1.6	1037.0	1	1	0	0	111	3.2	3.4	120	10	0747	110	4	08	0.0	
24	3.5	-4.6	0.0	-9.3	5.4	7.7	7.1	17.7	1032.4	1	1	0	0	42	2.1	2.2	40	7	1342	40	4	13	0.0	
25	6.3	-5.1	tr	-10.2	4.6	7.6	1.4	10.2	1027.6	1	1	0	0	12	3.2	3.5	20	20	1616	30	8	16	0.0	
26	5.5	-0.8	0.0	-6.5	4.5	7.5	5.1	3.2	1027.1	1	1	0	0	29	8.2	8.3	40	26	1356	30	13	12	0.0	
27	4.3	-0.1	0.2	-3.2	4.3	7.4	3.8	0.5	1026.9	1	1	1	0	30	7.7	7.8	30	24	0200	30	11	10	0.6	
28	5.5	-1.0	0.0	-3.2	4.3	7.2	6.3	5.9	1026.6	1	1	0	0	40	8.6	8.6	50	26	1352	40	13	15	0.0	
29	6.5	-0.8	0.0	-3.6	4.0	7.1	8.5	5.8	1031.7	1	1	0	0	46	7.5	7.5	50	22	1048	50	12	10	0.0	
30	6.0	0.6	0.0	0.5	4.0	7.0	0.0	0.0	1032.7	0	0	0	0	59	6.3	6.4	70	18	0425	60	9	06	0.0	
31	6.0	3.5	0.0	2.0	4.5	6.9	4.6	0.0	1028.4	0	0	0	0	66	4.1	4.4	70	16	0058	60	7	00	0.0	
Total			19.8				65.5	73.9															36.3	
Mean	7.2	2.1		-0.9	5.5	7.5	2.11	2.4	1023.4					73	0.4	5.1								
Anom	-0.3	+0.6	32%		+0.3	+0.2	111%		+7.4															
Daily mean		4.7							Pressure, abs highest =					1038.3										
Anom		+0.2							Pressure, abs lowest =					993.2										

Number of days with:

Air frost = 12 Ground frost = 14 Nil sun = 10
Snow falling = 4 Snow lying = 0 Thunder = 0
Hail=>5mm = 0 Hail<5mm or ice = 1 Fog at 09GMT = 1

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 JANUARY 2006

Date	VV	N	dd	ff	gg	TT	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	hshs	NChs	Date	Remarks
1	59	7	34	05	14	6.4	5.0	91	5.5	1000.2	2	044	80	8	2	7	8	4	/	/	81712	85625	87635	1	2Cu20 Cu med vv50k ex p	
2	62	6	26	01	04	4.5	4.0	97	5.0	1023.8	2	023	02	2	2	6	5	6	0	0	86640			2		
3	63	8	20	04	07	7.0	5.9	93	5.7	1027.9	1	002	60	6	2	8	5	4	/	/	81615	86620	88635	3		
4	82	7	03	09	20	6.5	3.4	81	4.8	1029.6	3	001	01	2	2	7	5	4	/	/	83615	87620		4		
5	40	8	06	05	07	2.6	2.3	98	4.4	1022.6	6	009	61	8	6	8	5	4	/	/	81618	85635	88645	5	2Sc25 Small hail 0715	
6	50	8	05	03	06	2.0	1.2	94	4.1	1021.3	3	022	60	7	6	8	5	6	/	/	85632	88638		6		
7	15	8	03	03	08	1.0	0.5	96	3.9	1025.0	2	005	68	7	6	4	7	3	2	/	84708	88540		7	Rain and snow commenced 0815	
8	40	8	04	06	13	3.7	2.7	93	4.6	1023.8	2	002	05	2	2	8	5	4	/	/	86710	88612		8		
9	25	8	36	02	04	4.5	4.3	98	5.1	1026.1	3	011	10	2	2	8	5	2	/	/	82705	85707	85615	9	8Sc45	
10	59	8	21	10	18	7.5	5.5	87	5.6	1023.5	5	001	05	2	2	7	5	4	2	/	81715	83620	87625	10	8As62	
11	75	7	24	07	20	9.4	8.6	95	6.9	1018.4	3	026	61	6	5	7	5	4	2	/	81710	84545	87650	11	1Sc15 Cld edge NW. CF 0800	
12	56	7	17	03	08	-2.3	-2.9	96	3.0	1029.7	4	000	10	1	1	1	6	3	0	1	81706	87080		12	COTRA Hoar thk Gnd sfc frzn	
13	75	7	17	07	12	6.6	3.8	82	4.9	1022.1	6	003	02	2	2	7	5	6	/	/	81635	87640		13		
14	59	8	18	06	16	8.2	6.7	90	6.1	1020.1	3	010	60	6	2	5	5	4	7	/	82712	85620	87360	14		
15	57	6	16	06	12	6.8	6.4	97	5.9	1015.8	7	008	10	1	1	2	6	3	0	1	82708	85075		15	1Sc20 COTRA Halo 22° part	
16	56	8	19	09	17	7.9	7.0	94	6.3	1009.9	8	004	05	6	2	8	6	3	/	/	85707	88709		16		
17	60	7	24	04	08	7.6	7.0	96	6.3	1002.7	1	011	01	2	2	5	5	3	3	1	81708	85635	87075	17	1Sc20 /Ac58 COTRA	
18	72	7	25	05	08	10.1	9.5	96	7.4	1013.9	2	029	20	5	2	7	5	4	/	8	82712	87618		18	/Cs75	
19	59	8	23	05	09	10.0	9.6	97	7.4	1019.5	1	009	20	5	2	8	6	3	/	/	86707	88710		19		
20	86	7	25	10	27	7.9	5.5	84	5.6	1014.8	3	015	21	6	2	7	8	4	/	/	81712	83645	87656	20	1Cu18 1Sc35 CF 0748	
21	80	6	30	06	16	6.2	3.3	82	4.8	1027.6	1	018	01	1	1	1	5	6	0	1	81640	86080		21	COTRA	
22	01	0	23	01	02	-1.5	-1.7	99	3.3	1037.4	2	018	46	4	0	0	0	9	0	0				22	vv 150m Hoar mod Gnd sfc frzn	
23	56	8	11	04	09	2.4	-1.2	77	3.4	1037.0	3	002	05	2	2	8	5	4	/	/	88618			23		
24	25	7	03	02	04	-3.1	-3.2	99	2.9	1032.4	5	000	10	2	2	0	0	9	0	1	87080			24	COTRA Hoar mod Gnd sfc frzn	
25	25	8	33	01	03	-0.7	-1.1	97	3.5	1027.6	5	003	10	4	2	8	6	3	/	/	88708			25	Hoar mod Gnd sfc frzn	
26	73	1	02	05	09	2.1	-1.0	80	3.5	1027.1	0	003	02	0	0	1	5	6	0	0	81635			26	Hoar slt. Gnd sfc frzn	
27	75	2	02	06	11	1.4	-2.4	76	3.1	1026.9	2	001	02	0	0	2	5	6	0	0	82640			27		
28	50	6	04	09	16	-0.5	-2.3	87	3.1	1026.6	0	015	05	1	1	6	5	4	0	0	86615			28	Hoar slt. Gnd sfc frzn	
29	80	1	05	08	15	0.6	-1.3	87	3.4	1031.7	2	011	02	0	0	0	0	9	0	2	81075			29	Hoar slt. Gnd sfc frzn	
30	80	8	06	09	18	5.0	1.2	76	4.0	1032.7	1	006	02	2	2	8	5	4	/	/	88618			30		
31	68	7	07	05	10	3.9	1.6	85	4.2	1028.4	1	004	02	2	2	7	5	4	/	/	87613			31		

Mean vis = 14.6 km
 Mean cloud = 6.5 81%
 Mean wind speed = 5.4 kn
 Mean gust = 11 kn
 Mean TT = 4.3 C
 Mean TdTd = 2.8 C
 Mean RH = 90.3 %
 Mean r = 4.8 g/kg
 Mean PPP = 1023.4 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 JANUARY 2006

Date	VV	N	dd	ff	gg	TT	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NCh	shs	NCh	shs	Date	Remarks
1	88	5	33	06	15	7.5	3.5	76	4.9	1006.8	2	033	01	8	2	5	8	5	0	0	81822	85645			1		
2	62	7	26	02	04	6.7	4.1	84	5.0	1025.9	3	007	02	2	2	7	5	6	/	/	81642	87645			2		
3	22	8	23	04	09	9.6	9.3	98	7.2	1027.2	6	006	51	6	5	8	7	2	/	/	82703	87705	88709		3		
4	61	8	07	07	17	5.8	4.2	89	5.0	1029.0	5	008	02	2	2	8	5	4	/	/	82710	87612	88615		4		
5	62	7	05	04	14	2.4	-0.6	80	3.6	1019.3	7	016	02	2	2	7	8	5	/	/	81825	87645			5	Cu hum	
6	60	7	03	05	10	3.6	0.0	77	3.8	1022.2	5	000	05	2	2	7	5	5	/	/	85625	87650			6		
7	38	6	04	03	06	2.3	1.2	93	4.1	1023.7	6	007	05	6	2	6	8	2	/	/	83705	83656			7	1Cu08 2Sc20 Cu fra	
8	24	8	05	07	15	4.0	3.5	97	4.8	1023.3	5	004	63	6	6	7	7	3	2	/	83708	87710	88515		8		
9	28	8	17	06	11	6.0	5.4	96	5.5	1025.2	5	007	10	2	2	8	6	2	/	/	83704	88706			9		
10	63	8	20	13	24	8.1	5.4	83	5.6	1020.8	6	020	02	2	2	8	5	4	/	/	81712	87615	88625		10		
11	82	1	26	06	15	9.5	2.7	63	4.6	1023.6	3	019	01	0	0	1	1	5	0	0	81828				11	Cu fra	
12	66	7	18	07	16	6.0	2.9	80	4.6	1027.7	7	012	03	2	2	7	5	4	/	1	87617				12	/Ci80 COTRA	
13	67	7	16	07	14	7.9	5.2	83	5.5	1019.8	6	017	02	2	2	6	8	4	3	2	81815	83635	87075		13	4Sc45 1Ac65	
14	45	8	18	06	13	8.0	7.6	97	6.4	1019.7	6	006	61	6	6	8	7	3	/	/	86706	88708			14		
15	62	7	16	06	12	8.3	5.8	84	5.7	1013.8	6	015	03	2	2	7	5	4	/	/	83615	87622			15		
16	59	7	22	08	16	9.2	7.6	90	6.6	1006.9	6	011	80	8	6	7	8	4	/	/	81815	83820	87645		16	2Sc35 Cu med	
17	82	8	30	07	17	10.0	5.4	73	5.6	1005.3	3	012	02	2	2	3	8	5	3	7	82825	88275			17	2Sc40 2Ac68 COTRA Cu med	
18	86	8	29	05	11	12.8	9.1	78	7.2	1016.0	3	006	03	2	2	7	8	5	/	1	81820	83825	87635		18	/Ci75 Cu hum/fra	
19	81	8	25	07	13	10.6	8.7	88	7.0	1019.2	8	005	21	6	5	8	5	4	/	/	83615	88622			19		
20	84	3	26	10	28	8.8	1.2	59	4.1	1017.4	3	011	03	0	0	3	8	6	0	1	83835				20	1Sc50 1Ci75 COTRA	
21	78	2	36	06	12	9.4	3.7	67	4.9	1029.3	3	006	01	0	0	2	8	5	0	1	81825				21	1Sc35 1Ci80 COTRA Cu hum	
22	73	7	08	03	06	5.8	0.1	67	3.7	1037.3	6	002	03	1	1	6	5	5	0	1	86625	87075			22	COTRA	
23	56	8	16	04	10	2.8	-1.9	71	3.2	1035.1	6	012	05	2	2	7	5	4	/	1	87618				23	/Ci75	
24	56	7	05	03	07	3.3	-2.1	68	3.2	1029.7	6	018	05	2	2	0	0	9	0	1	87080				24	COTRA Parhelion weak	
25	65	3	03	08	17	5.5	0.9	72	4.0	1025.6	6	009	01	1	1	3	8	5	0	0	82825				25	2Sc35 Cu med	
26	82	3	04	13	27	5.0	-4.0	52	2.8	1026.3	6	010	02	0	0	3	8	6	0	0	83838				26	1Sc42 Cu hum	
27	80	7	03	10	19	3.9	-2.3	64	3.2	1024.2	7	014	03	2	2	4	8	6	7	2	82830	83645	85072		27	2Ac61 Cu med Ac op vir	
28	63	3	04	12	26	5.1	-3.0	56	3.0	1025.3	6	006	03	0	0	0	0	9	0	1	83078				28	COTRA	
29	82	0	04	09	16	6.2	-2.3	54	3.1	1031.6	5	002	02	0	0	0	0	9	0	0					29		
30	75	7	07	07	13	5.9	1.1	71	4.0	1031.4	5	011	02	2	2	7	5	5	/	/	87622				30		
31	65	7	05	05	10	5.8	0.4	68	3.8	1026.3	7	013	02	2	2	2	0	9	3	1	82368	87075			31	COTRA	

Mean vis = 21.4 km
 Mean cloud = 6.1 77%
 Mean wind speed = 6.6 kn
 Mean gust = 14 kn
 Mean TT = 6.6 C
 Mean TdTd = 2.7 C
 Mean RH = 76.7 %
 Mean r = 4.7 g/kg
 Mean PPP = 1023.1 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
 JANUARY 2006

Date	Mean			Max			Min			Missing RH N >0	Number of minutes RH in given ranges								
	TT	TT	Time	TT	Time	RH	RH	Time	RH		Time	RH	0-20	20-40	40-60	60-80	80-90	90-95	95-98
01	6.7	8.0	13:55	5.3	03:19	83.7	96.7	03:43	73.1	13:59		0	0	0	521	585	201	133	0
02	5.7	6.9	13:30	4.2	03:19	87.7	93.4	23:19	81.6	13:18		0	0	0	0	1059	381	0	0
03	7.8	9.7	17:48	5.3	02:08	94.7	99.2	21:35	88.9	08:53		0	0	0	0	163	583	140	554
04	4.8	7.4	00:00	0.2	21:11	89.9	97.6	00:00	81.8	11:40		0	0	0	0	674	667	99	0
05	2.3	4.0	11:42	1.5	23:39	85.4	96.3	09:19	59.0	13:04		0	0	4	287	564	447	138	0
06	2.4	3.8	11:55	1.4	03:01	86.2	93.4	05:37	74.6	16:53		0	0	0	447	364	629	0	0
07	1.7	2.7	11:43	0.4	05:40	93.3	98.7	11:19	86.5	01:18		0	0	0	0	233	667	535	5
08	3.5	4.4	11:59	1.8	00:41	94.8	98.3	22:39	89.8	11:32		0	0	0	0	24	708	621	87
09	4.9	6.2	16:29	4.1	02:53	96.3	98.5	09:49	91.8	21:50		0	0	0	0	0	263	982	195
10	7.2	8.9	22:39	4.2	00:52	86.5	92.1	00:02	80.2	12:15		0	0	0	0	1244	196	0	0
11	7.4	10.3	12:50	0.4	23:54	86.0	96.7	08:07	61.9	15:08		0	0	0	381	258	633	168	0
12	3.1	6.9	13:16	-2.7	07:35	89.2	97.5	10:30	74.2	13:47	46	0	0	0	117	612	104	558	3
13	7.3	8.5	19:30	6.2	00:09	80.7	86.2	18:00	75.5	13:27		0	0	0	640	800	0	0	0
14	7.7	8.9	11:02	6.6	22:50	91.5	98.0	23:59	81.7	00:04		0	0	0	0	678	105	657	0
15	7.4	8.6	12:09	6.7	20:45	90.8	98.0	00:06	80.4	12:11		0	0	0	0	658	339	443	0
16	7.4	9.7	13:38	5.7	19:21	88.7	95.9	12:31	75.1	17:04		0	0	0	139	643	559	99	0
17	8.0	10.3	13:25	6.3	21:58	86.3	96.5	01:04	72.2	16:32		0	0	0	478	311	315	336	0
18	10.0	13.1	13:54	6.5	01:53	90.4	98.3	04:52	77.2	15:37		0	0	0	153	482	240	519	46
19	9.8	11.0	12:47	8.3	01:12	89.2	98.1	05:22	75.8	20:35		0	0	0	407	228	173	628	4
20	8.2	10.6	06:32	5.2	20:22	76.4	96.5	07:55	51.8	14:06		0	0	244	533	588	68	7	0
21	5.3	9.8	14:01	0.3	23:51	82.7	94.3	23:45	64.8	13:38		0	0	0	461	674	305	0	0
22	1.1	6.1	13:20	-2.2	07:05	88.6	100.0	08:49	61.4	13:18	70	0	0	0	265	280	411	228	186
23	2.3	3.8	12:20	-1.4	23:57	76.0	89.2	23:57	70.0	13:18		0	0	0	1309	131	0	0	0
24	-0.8	3.5	13:20	-3.9	07:58	87.7	99.4	23:37	61.9	13:21	48	0	0	0	335	194	648	115	100
25	1.0	6.3	13:34	-4.0	02:17	89.9	100.0	09:37	65.5	15:05		0	0	0	221	299	266	446	208
26	2.7	5.5	13:23	-1.0	06:16	72.3	97.1	03:26	49.4	15:08	64	0	0	231	625	253	247	20	0
27	2.4	4.3	11:51	-0.5	07:57	71.3	92.9	20:45	49.5	11:52		0	0	183	913	154	190	0	0
28	1.6	5.5	13:11	-1.3	07:40	71.8	97.5	05:54	49.7	13:22	160	0	0	248	568	361	37	66	0
29	2.4	6.5	14:03	-1.1	06:04	75.0	87.1	06:11	47.9	13:27		0	0	236	573	631	0	0	0
30	4.9	6.0	14:32	4.0	00:00	75.6	79.7	23:40	69.9	14:47		0	0	0	1440	0	0	0	0
31	3.8	6.0	14:14	1.3	23:59	80.4	88.4	19:07	66.3	14:11		0	0	0	471	969	0	0	0
Mean	4.8	7.2		2.2		85.1	95.2		70.6			0.00	0.00	0.62	6.07	7.59	5.04	3.73	0.75
Hi	10.0	13.1		8.3		96.3	100.0		91.8	Tot	388	0	0	1146	11284	14114	9382	6938	1388
Lo	-0.8	2.7		-4.0		71.3	79.7		47.9										

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.