

Wokingham Climatological Station, Emmbrook, Berkshire.

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

Monthly Means and Totals

JANUARY 2004

Temperature (°C / °F)	Anomaly		Rank	
Mean maximum	8.7	47.7	+1.2	26 th highest in 123 years
Mean minimum	2.7	36.9	+1.2	18 th highest in 123 years
Daily mean	5.7	42.3	+1.2	23 rd highest in 123 years
Highest maximum	11.9	53.4	on 31 st	Lowest maximum 4.8 40.6 on 2 nd
Highest minimum	8.2	46.8	on 20 th	Lowest minimum -2.9 26.8 on 3 rd
Mean grass minimum	0.1	32.2		Lowest grass minimum -8.6 16.5 on 18 th
Mean earth @30 cm	6.1	43.0	+0.9	Earth @100 cm 7.9 46.2 +0.6
Frost duration (hrs)	52.9			Rain duration (hrs) [66.7] *
Rainfall total (mm / in)	79.4	3.13	130 %	26 th highest in 123 years
Highest daily fall	11.3	0.44	on 7 th	
Number of: Dry days (<0.2mm)	11	Wet days (>0.9mm)	16	days ≥5mm 9
Sunshine total (hrs) 66.4	Daily mean 2.14			Sunniest day 8.5 on 29 th
N° days with: Air frost 9	Ground frost 14	Snow falling 2	Snow lying 1	
Thunder 1	Hail ≥5mm 0	Small hail/ice 3	Fog @09 0	Nil sun 13
Air pressure MSL : Mean @09 GMT (mbar/in)	1008.4	-7.6	29.78	
Absolute highest	1029.1		30.39	on 18 th
Absolute lowest	984.1		29.06	on 13 th

Anomaly = departure from 1971 to 2000 average.

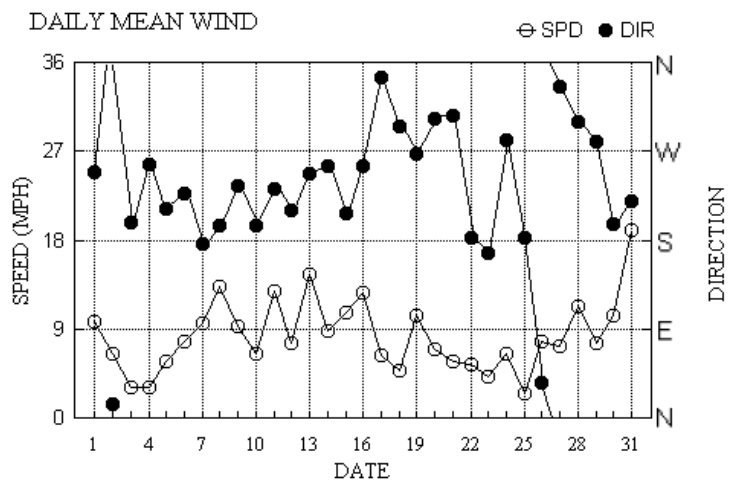
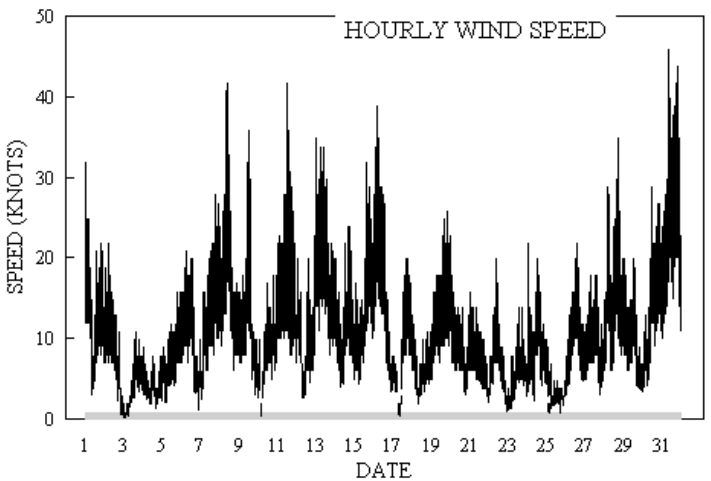
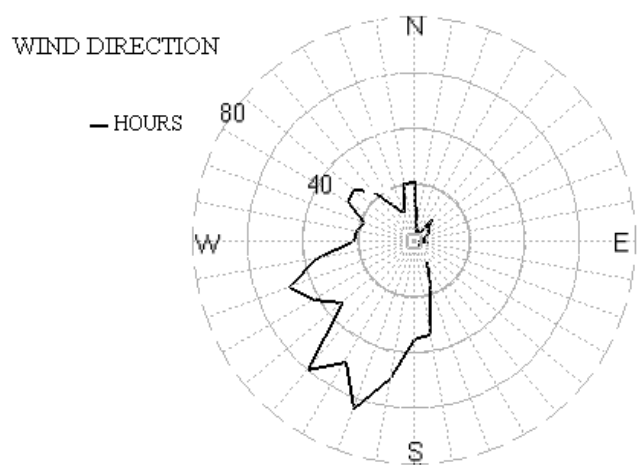
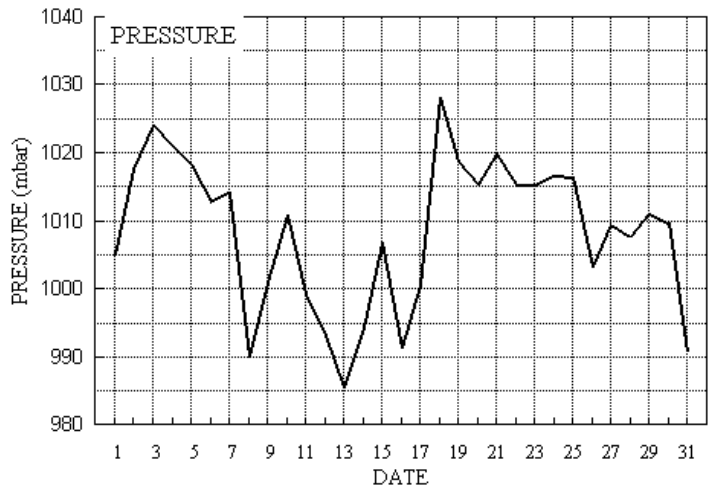
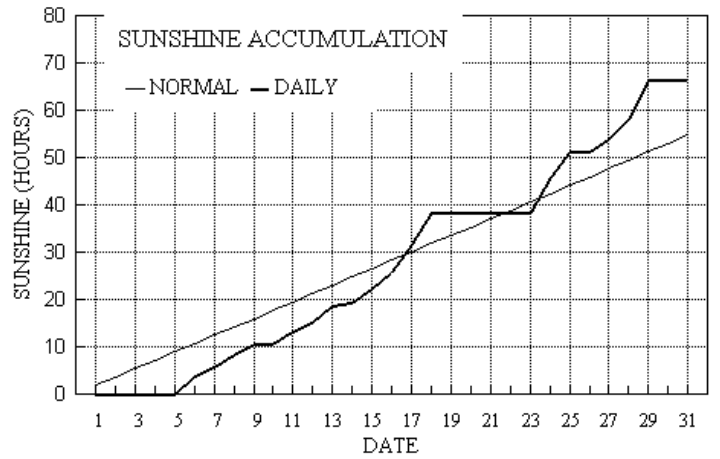
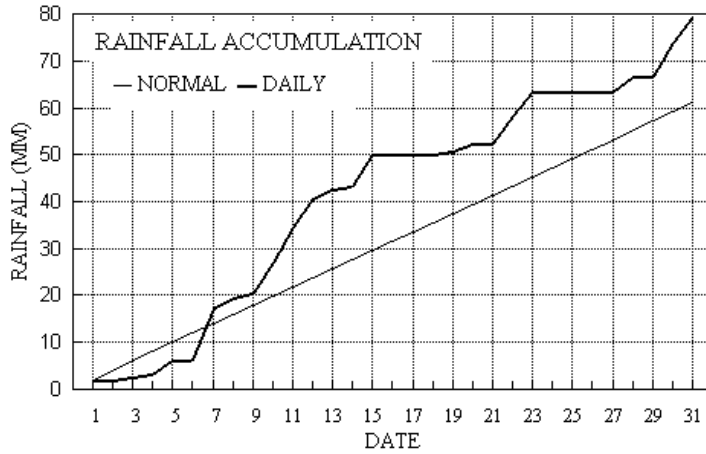
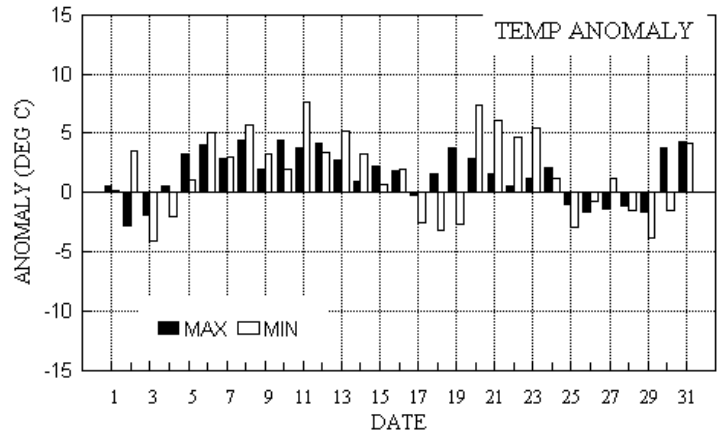
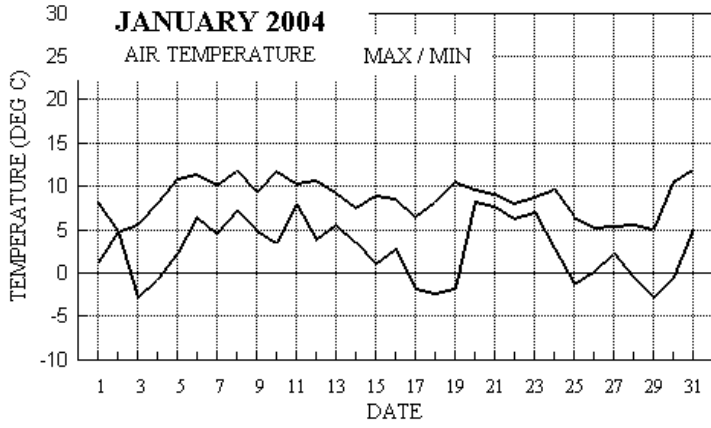
* Excludes snow 27th/28th

Notes: **Mild, Wet, Sunny.**

Temperature. This was a month without any extreme temperatures, and the overall mean of 5.7° is 1.2° above the current 30 year climatological average, and is 1.5° above the long-term median. Both the mean maximum and mean minimum are also 1.2° above the average. The daily mean temperature range is 0.2° below normal, and lowest since 1999. The highest maximum, 11.9°, is 0.5° below the median while the lowest minimum, -2.9°, is 3.0° above the median, illustrating the absence of significant extremes this January. The lowest maximum, 4.8°, is 4.0° above the median, while the highest minimum, 8.2°, equals the median, and is lowest since 1997. The lowest grass minimum is highest since 1994. **Rainfall.** A January in the wet category, with 30 % more rainfall than average, but only wettest since 2001. There were 4 fewer dry days than average, and the number of days with 5 mm or more is equal highest with 1995 since 1988. Snow fell on the 27th and 28th, accompanied by thunder and hail on the 28th, the snow falling thickly for about half an hour near 1730. During the storm the temperature fell from 5.4° to 0.8° in 10 minutes. One lightning flash is believed to have struck the spire of St Paul's church in Reading Road, starting a fire and causing considerable damage. The measured snow depth at 0900 hours on the 29th was 1 cm. Snow cover had decreased to less than 50% by the morning of the 30th. **Sunshine.** After a poor start, with no sunshine recorded until the 6th, accumulated sunshine hours reached normal by the 17th, and despite further sunless days, ended the month with a surplus of about 12 hours. Virtually unbroken sunshine on the 29th gave a total of 8.5 hours, the most for a January day since before 1979. The number of days with nil sun is most since 1997. **Wind.** The mean wind speed of 8.3 mph is equal to average, but is highest since 1999. The windiest day was the 31st, mean speed 19.0 mph, and was the windiest January day since 1993. The month's highest gust, 53 mph, was also on the 31st. The 25th was the least windy day, 2.5 mph, and there were just 7 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,2 NE,1 E,0 SE,0 S,8 SW,7 W,8 NW,5. **Pressure.** The mean at 0900 hours, 1008.4 mbar, is lowest for January since 1988. **Humidity.** The mean relative humidity was 84.3 %, and the lowest value 50 % recorded on the 27th. There was a mean of 5.1 g of water vapour per kg of air at both 0900 and 1500 hours. **Commentary.** From the 1st to the 10th, temperatures were generally above normal after the 4th, but before that there was a cold snap, with the month's lowest maximum on the 2nd, anomaly -2.8°, and lowest minimum on the 3rd, anomaly -4.1°. Only 2 dry days in this period, and a total of 27.0 mm, 137 % of normal, helped by 11.3 mm on the 7th, the month's highest daily total. Sunshine was meagre with 6 days nil and a 10 day mean just 61 % of normal. A fresh W'ly wind on the 1st became moderate N'ly on 2nd, then light or moderate SW'ly until the 6th, increasing to strong by 8th, dropping light by 10th. From the 11th to the 20th, daily maxima were above normal every day except the 17th, with anomalies around +4° on 12th and 19th. Minima were above normal until the 16th and again on the 20th, with anomalies between +7.3° on 20th to -3.2° on 18th. Just 3 dry days with a 10 day total of 25.5 mm, 129 % of normal. Sunny days on 17th and 18th lifted the 10 day mean to 155 % of normal, though the 19th and 20th were sunless. SW'ly winds were strong on 11th, 13th, 15th and 16th, falling moderate between, veering NW'ly on 17th, falling light on 18th, becoming fresh W'ly on 19th, dropping moderate on 20th. From the 21st to the 31st, daily maxima were slightly above normal until the 24th, then slightly below until the 29th, but ended the month with an anomaly of +4.3° on the 31st, the month's mildest day. Daily anomalies for minima ranged from +6.1° on 21st to -3.8° on 29th. There were 6 dry days but the 11 day total was 124% of normal, Snow fell on the 27th and 28th. 5 days were sunless, but the 11 day mean was 144% of normal. Light or moderate winds were NW'ly on 21st, backing S'ly on 22nd, veering W'ly on 24th, then backing through S to become NW'ly on 27th, increasing fresh on 28th, backing S'ly on 29th, ending the month with a very strong SW'ly on 31st.

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

Wokingham Climatological Data



Month: JANUARY 2004

Date	Max C	Min C	Rain mm	Grass Min	30cm C	100crr C	Sun hrs	Frost hrs	pp09 mbar	Af Gf	Sf Sl	Th Ha	Ic Fg	Vec ddd	mean ff	sp	Max gust ddd	ggHHhh	High hr ddd	ff	HH	Rain hrs	
1	8.1	1.3	1.7	0.4	5.5	8.1	0.0	0.0	1005.0	0	0	0	0	249	4.3	8.5	180	32	0037	190	13	01	3.0
2	4.8	4.7	tr	4.0	6.0	8.0	0.0	3.2	1017.5	0	0	0	0	14	4.7	5.6	350	22	0440	350	9	04	0.1
3	5.7	-2.9	0.7	-7.9	5.6	8.0	0.0	10.9	1024.1	1	1	0	0	198	2.0	2.6	200	11	1501	190	5	14	1.6
4	8.1	-0.8	0.6	2.3	5.5	8.0	0.0	0.0	1020.8	1	0	0	0	257	2.3	2.7	250	9	0132	200	4	22	1.4
5	10.9	2.2	3.0	-2.4	5.7	7.9	0.0	0.0	1018.1	0	1	0	0	212	4.9	5.0	220	16	1834	210	8	18	2.2
6	11.4	6.6	tr	7.5	6.5	7.9	3.7	0.0	1012.9	0	0	0	0	227	6.0	6.7	210	21	0643	210	10	06	0.0
7	10.3	4.6	11.3	-0.6	6.7	7.9	2.1	0.0	1014.2	0	1	0	0	177	8.1	8.3	170	28	1913	170	12	19	5.9
8	11.8	7.3	2.0	3.8	7.0	8.0	2.4	0.0	990.0	0	0	0	0	195	10.6	11.6	180	42	1014	180	20	09	1.5
9	9.3	4.9	1.1	1.9	7.0	8.0	2.3	0.0	1001.0	0	0	0	0	235	7.7	8.1	270	36	1353	250	15	11	2.2
10	11.8	3.6	6.6	-1.1	6.5	8.1	0.0	0.0	1010.7	0	1	0	0	195	5.4	5.6	200	18	1831	200	10	18	4.2
11	10.4	8.0	7.3	8.3	7.1	8.1	2.7	0.0	999.1	0	0	0	0	232	10.3	11.1	270	42	1217	250	17	12	4.9
12	10.8	3.8	6.5	1.0	7.0	8.1	2.0	0.0	993.2	0	0	0	0	211	4.5	6.6	190	23	2359	190	11	23	4.2
13	9.4	5.6	1.8	2.1	7.0	8.1	3.5	0.0	985.5	0	0	0	0	248	12.0	12.6	210	35	0120	210	17	01	1.3
14	7.6	3.6	0.6	0.2	6.6	8.1	0.6	0.0	994.3	0	0	0	0	255	5.7	7.6	310	24	1540	290	11	15	0.6
15	8.9	1.0	7.0	-4.0	6.2	8.1	3.0	0.0	1006.7	0	1	0	0	207	9.1	9.3	200	32	1548	200	16	19	4.3
16	8.6	2.8	0.0	4.2	6.3	8.1	3.4	0.0	991.3	0	0	0	0	255	10.5	11.0	260	39	0540	250	19	05	0.0
17	6.5	-1.7	0.0	-6.9	6.0	8.0	5.7	4.5	1000.4	1	1	0	0	345	3.5	5.5	360	20	1943	360	11	18	0.0
18	8.3	-2.3	tr	-8.6	5.5	8.0	6.9	5.4	1028.0	1	1	0	0	295	2.3	4.2	350	12	0112	230	6	23	0.0
19	10.6	-1.8	0.6	-1.7	5.1	7.9	0.0	0.0	1018.7	1	1	0	0	268	8.4	9.0	280	26	1930	310	13	23	1.4
20	9.7	8.2	1.7	7.0	6.0	7.8	0.0	0.0	1015.3	0	0	0	0	303	6.0	6.0	310	21	0007	310	11	00	6.9
21	9.1	7.8	0.0	6.3	6.6	7.7	0.0	0.0	1019.8	0	0	0	0	306	4.5	5.0	310	16	0018	310	8	04	0.0
22	8.1	6.3	5.7	4.8	6.9	7.7	0.0	0.0	1015.2	0	0	0	0	183	4.6	4.7	190	20	0944	190	8	09	5.6
23	8.8	7.1	5.3	4.8	7.0	7.8	0.0	0.0	1015.3	0	0	0	0	167	3.5	3.7	200	14	1406	170	6	14	4.5
24	9.7	2.9	0.0	-1.0	7.1	7.9	7.5	0.0	1016.7	0	1	0	0	282	5.0	5.7	330	22	0105	290	9	12	0.0
25	6.6	-1.3	tr	-7.2	6.4	7.9	5.4	4.6	1016.5	1	1	0	0	182	1.2	2.2	240	10	0137	240	6	00	0.0
26	5.2	0.2	tr	-2.8	5.6	7.9	0.0	0.0	1003.1	0	1	0	0	35	6.4	6.8	40	22	1311	40	11	13	0.0
27	5.4	2.2	0.1	0.7	5.5	7.8	2.6	0.0	1009.4	0	0	1	0	335	5.4	6.3	320	18	1428	350	9	12	xx
28	5.6	-0.5	3.1	-3.8	5.4	7.7	4.0	8.9	1007.7	1	1	1	0	300	7.8	9.8	360	35	1721	250	14	16	xx
29	5.1	-2.8	tr	-6.7	5.0	7.6	8.5	12.2	1011.0	1	1	0	1	280	5.8	6.6	280	20	1352	290	10	13	0.0
30	10.6	-0.5	7.1	-6.2	4.5	7.5	0.1	3.2	1009.6	1	1	0	0	197	8.9	8.9	190	29	1248	190	15	20	6.0
31	11.9	5.1	5.6	5.0	5.0	7.4	0.0	0.0	990.6	0	0	0	0	219	15.3	16.5	200	46	0828	200	21	08	4.9
Total			79.4				66.4	52.9															66.7
Mean	8.7	2.7		0.1	6.1	7.9	2.14	1.7	1008.4					239	4.2	7.2							
Anom	+1.2	+1.2	130%		+0.9	+0.6	122%		-7.6														
Daily mean		5.7																					
Anom		+1.2																					

Number of days with:

Air frost = 9 Ground frost = 14 Nil sun = 13
Snow falling = 2 Snow lying = 1 Thunder = 1
Hail=>5mm = 0 Hail<5mm or ice = 3 Fog at 09GMT = 0

Abbreviations.

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

Rain = total rainfall and melted snowfall in 24 hour period ending at 09 hours, 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 hours.

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

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 9AM. Excludes snow/hail.

Anom = departure from 1971-2000 average. All temperatures in degrees Celsius.

For details of this weather station, to see satellite images, or to find useful links to other meteorological sites worldwide, go to:

www.btinternet.com/~wokingham.weather/www.html

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for JANUARY 2004

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	hCr	Cl	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	61	7	20	04	06	5.2	4.7	97	5.4	1005.0	7	006	15	6	2	7	5	3	/	/	82708	83625	87635			1	jp NW	
2	61	8	02	06	16	4.9	3.5	90	4.8	1017.5	3	035	21	6	2	7	5	3	/	/	83708	87612	88615			2		
3	56	8	09	02	03	-0.8	-2.1	91	3.2	1024.1	3	002	05	2	2	1	5	7	3	7	81650	83357	88272			3	COTRA Hoar slt Gnd sfc frzn	
4	63	7	28	02	04	5.7	5.0	95	5.4	1020.8	3	019	02	2	2	7	5	6	/	/	81635	87640				4		
5	30	8	20	04	09	6.9	6.0	94	5.8	1018.1	5	000	58	6	5	8	5	4	/	/	85710	88620				5		
6	82	7	24	05	18	10.3	8.7	90	7.0	1012.9	3	006	61	6	6	2	8	4	7	/	81810	86550				6	2Sc40 /Ac62 Cu fra Clearance W CF 0800	
7	61	8	17	08	16	9.5	8.1	91	6.7	1014.2	8	003	20	5	2	8	5	4	/	/	83710	87618	88625			7		
8	56	8	17	18	41	9.6	9.2	97	7.4	990.0	7	066	63	6	6	7	7	3	2	/	82708	87712	88525			8		
9	80	3	22	09	16	6.1	3.5	83	4.9	1001.0	1	017	15	0	0	1	8	5	6	3	81825	83070				9	1Sc40 1Ac63 Cu med jp NW Parhelion	
10	56	8	19	05	09	8.0	7.8	99	6.6	1010.7	3	004	20	6	5	8	7	2	/	/	83705	88707				10		
11	70	7	27	14	28	10.4	6.8	78	6.2	999.1	3	014	80	8	6	6	8	4	1	/	81815	84822	86640			11	7As65 Cu med vv 60k NW Clearance W	
12	56	8	14	03	05	6.4	6.2	98	6.0	993.2	7	054	63	6	6	6	5	4	2	/	81615	86625	88550			12		
13	65	7	25	16	30	9.1	4.4	72	5.3	985.5	3	012	80	8	1	6	8	5	/	8	84825	85640	86275			13		
14	81	6	17	05	10	4.4	3.7	95	5.0	994.3	7	037	25	8	6	4	5	4	7	2	81712	84620				14	3Ac62 1Ci70 jp N	
15	72	3	21	07	14	3.0	1.2	88	4.2	1006.7	1	008	03	0	0	0	0	9	0	1	83078					15	COTRA Hoar mod	
16	88	6	26	15	29	7.0	2.1	71	4.5	991.3	3	034	02	2	2	6	8	5	0	1	82827	86635				16	/Ci75	
17	50	3	19	01	01	-1.0	-1.4	97	3.5	1000.4	2	008	10	0	0	1	0	9	3	1	81360	83080				17	COTRA Hoar slt Gnd sfc frzn	
18	67	2	33	02	03	-1.8	-2.3	96	3.1	1028.0	2	031	02	0	0	0	0	9	0	1	82075					18	Hoar slt Gnd sfc frzn	
19	78	7	25	08	18	8.3	4.7	78	5.3	1018.7	6	013	02	2	2	7	8	5	/	/	81820	87630				19	/Sc40 Cu fra	
20	80	8	30	06	11	9.7	7.4	86	6.4	1015.3	2	012	21	6	5	8	5	4	/	/	88615					20	vv 60k NW	
21	75	7	31	06	12	8.3	5.9	85	5.7	1019.8	2	011	02	2	2	7	5	4	/	/	81615	87625				21		
22	62	8	19	08	14	7.6	5.1	84	5.5	1015.2	6	014	03	2	2	8	5	5	/	/	84625	88635				22		
23	50	8	16	03	05	7.4	6.7	96	6.1	1015.3	2	014	10	2	2	8	5	3	/	/	81708	88618				23		
24	75	0	25	03	06	4.0	2.8	92	4.6	1016.7	1	016	02	0	0	0	0	9	0	0							24	
25	58	1	16	02	03	0.2	-0.4	96	3.7	1016.5	8	004	10	0	0	0	0	9	0	1	81075					25	Hoar mod Gnd sfc frzn	
26	56	8	04	07	14	3.3	2.3	93	4.5	1003.1	3	002	05	2	2	7	6	4	2	/	87712	88462				26		
27	70	7	35	06	14	3.0	0.6	84	4.0	1009.4	1	014	01	2	2	7	5	4	/	/	82612	87615				27		
28	84	1	26	07	14	0.3	-4.6	69	2.7	1007.7	0	013	03	0	0	1	5	7	3	2	81650					28	1Ac60 1Ci72 Gnd sfc frzn	
29	86	1	29	06	13	-0.1	-2.2	86	3.2	1011.0	3	011	02	0	0	1	5	6	0	0	81640					29	Sn lyng 1cm	
30	82	8	20	06	14	5.1	1.3	76	4.2	1009.6	7	009	21	6	2	7	5	6	/	8	83640	87656				30	1Sc50 /Cs75 Sn lyng 40% <1cm	
31	57	8	20	20	46	10.5	9.3	92	7.5	990.6	6	032	61	6	6	7	5	3	2	/	81708	87612	88520			31		

Mean vis = 20.7 km
 Mean cloud = 6.0 75%
 Mean wind speed = 6.9 kn
 Mean gust = 14 kn
 Mean TT = 5.5 C
 Mean TdTd = 3.7 C
 Mean RH = 88.4 %
 Mean r = 5.1 g/kg

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for JANUARY 2004

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	CI	h	Cr	Ch	NChshs	NChshs	NChshs	Date	Remarks
1	84	8	31	11	21	8.1	4.8	80	5.4	1006.1	3	007	21	6	2	7	8	5	7	/	82825	87635	1	/Ac58	
2	59	7	04	05	13	4.4	1.9	84	4.3	1022.4	3	017	05	6	2	7	8	4	/	/	83815	87640	2	Cu med	
3	59	8	19	05	10	3.0	-0.4	78	3.6	1021.5	6	015	05	2	2	8	5	5	/	/	85620	88625	3		
4	72	7	27	02	07	8.1	5.0	81	5.4	1020.8	4	000	02	2	2	7	5	6	/	/	81630	87640	4		
5	61	8	21	04	08	10.1	9.2	94	7.2	1016.7	7	011	21	6	2	8	7	3	/	/	87706	88709	5		
6	82	7	26	07	17	10.3	5.9	74	5.8	1015.0	3	008	03	1	1	2	8	5	3	2	82825	86072	6	1Sc40 1Ac67 COTRA Cu med Parheliion	
7	70	7	19	10	22	8.3	4.3	76	5.2	1010.6	6	026	03	1	1	2	8	4	3	4	81818	86078	7	2Sc45 1Ac68 COTRA Cu hum U/a cont	
8	80	5	22	12	26	9.3	6.0	80	6.0	990.4	2	015	80	8	1	3	9	5	6	3	81920	84070	8	2Cu25 1Sc40 1Ac65 Cb S&SW vv 60k ex p	
9	80	7	25	12	30	6.7	3.6	81	5.0	1005.0	2	019	60	6	1	3	8	5	2	2	81820	83635	85458	9	7Ci70 vv70k ex p Paranthelion at 1230
10	62	8	21	07	14	11.5	8.9	84	7.1	1009.5	7	010	02	6	2	4	5	4	1	/	81715	84630	88465	10	
11	65	7	23	08	22	8.6	2.8	67	4.7	999.8	8	007	80	8	1	7	9	5	/	/	87925			11	1Cu28 1Sc35
12	86	3	29	08	20	7.7	4.8	82	5.4	996.0	2	046	03	6	1	3	8	4	0	1	83818			12	1Sc25 1Ci75
13	83	1	26	12	26	9.3	1.6	59	4.4	989.3	3	017	01	1	1	1	1	6	0	8	81830			13	1Cs75 Cu hum
14	82	7	26	10	16	5.3	3.6	89	5.0	992.3	5	006	21	6	2	7	8	4	/	/	82815	86620	87630	14	
15	78	8	19	11	22	8.6	2.8	82	5.8	1000.2	7	052	60	6	2	7	8	5	2	/	85820	85635	88560	15	
16	86	5	29	10	25	8.0	1.8	65	4.4	994.8	2	013	02	1	1	3	8	6	0	1	81832	83635		16	4Ci73 COTRA
17	78	7	35	10	17	5.4	1.5	76	4.3	1004.3	3	020	03	1	1	7	8	5	/	/	83820	87625		17	
18	72	7	28	05	09	6.5	0.1	63	3.7	1028.5	8	001	03	1	1	1	1	5	3	8	81827	87275		18	1Ac65 Cu hum Halo 22° part
19	81	7	27	11	19	10.5	7.2	80	6.3	1014.6	7	022	21	6	2	3	8	5	7	2	81712	83630	85465	19	2Ac62 /Ci72
20	23	8	30	06	14	9.5	9.2	98	7.2	1015.8	5	000	51	5	6	8	7	2	/	/	83703	87705	88708	20	
21	80	8	31	05	09	8.8	5.3	78	5.5	1020.0	6	004	02	2	2	8	5	5	/	/	88620			21	
22	59	8	17	05	08	8.1	7.7	97	6.5	1011.8	7	019	61	6	6	6	5	3	2	/	83708	86612	88530	22	
23	68	8	16	06	14	8.0	5.8	86	5.7	1012.6	8	014	02	2	2	8	5	4	/	/	86615	88618		23	
24	75	1	29	07	18	9.3	2.7	64	4.6	1016.4	6	003	15	0	0	1	9	5	0	3	81925			24	1Cu28 1Sc40 1Ci70 jp NW
25	77	7	19	02	04	6.0	0.9	70	4.1	1012.5	7	026	03	1	1	1	8	5	1	8	81825	87275		25	1Sc35 2As69 COTRA Halo 22° part
26	61	8	02	09	17	4.4	1.5	81	4.3	1004.0	3	004	02	2	2	5	8	4	2	7	82818	83650	85462	26	2Sc25 8Cs70
27	80	4	32	07	18	4.5	-3.1	58	3.0	1009.5	7	006	02	1	1	3	8	6	0	1	83830	83078		27	1Sc45 COTRA Cu med
28	80	7	26	13	25	5.2	-0.8	65	3.6	1001.6	7	038	02	1	1	1	8	5	7	1	81825	85362	87465	28	1Sc45 /Ci75 COTRA
29	82	1	27	09	18	4.5	-3.6	55	2.9	1012.5	0	002	02	0	0	1	1	6	0	1	81830			29	1Ci80 Absent vv&cld est
30	68	8	19	11	22	6.9	3.9	81	5.0	1005.5	8	027	02	2	2	8	5	4	/	/	81615	88630		30	
31	45	8	22	20	38	11.1	9.3	89	7.5	986.6	5	022	58	6	5	8	5	4	/	/	82712	87615	88620	31	

Mean vis = 26.2 km
 Mean cloud = 6.5 81%
 Mean wind speed = 8.4 kn
 Mean gust = 18 kn
 Mean TT = 7.6 C
 Mean TdTd = 3.8 C
 Mean RH = 77.3 %
 Mean r = 5.1 g/kg
 Mean PPP = 1008.0 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
 CI = 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 2004

Date	Mean			Max			Min			Mean			Max			Min			Missing RH N >0	Number of minutes RH in given ranges										
	TT	TT	Time	TT	Time	RH	RH	Time	RH	Time	TT	TT	Time	TT	Time	RH	RH	Time		TT	TT	Time	0-20	20-40	40-60	60-80	80-90	90-95	95-98	98-100
01	6.1	8.2	14:38	2.7	02:17	87.8	96.5	23:53	75.7	18:14												0	0	0	358	349	577	156	0	
02	3.8	6.3	01:11	-1.3	23:59	88.5	96.8	02:22	79.2	19:05												0	0	0	23	894	375	148	0	
03	1.3	4.9	23:59	-2.4	02:29	88.9	98.3	23:59	75.1	12:15	82											0	0	0	223	482	363	225	65	
04	6.0	8.4	13:36	2.9	23:44	90.5	98.3	00:06	79.4	14:42												0	0	0	30	582	322	390	116	
05	7.9	10.6	23:34	2.9	00:00	93.7	96.4	00:22	91.1	23:20												0	0	0	0	0	1290	150	0	
06	9.6	11.4	12:01	6.0	23:26	86.9	96.9	23:57	71.8	12:50												0	0	0	322	428	593	97	0	
07	8.9	10.1	04:51	7.1	00:00	85.8	97.8	01:12	72.4	11:48												0	0	0	394	599	126	321	0	
08	8.8	11.7	11:22	5.8	23:54	88.2	96.1	02:01	75.7	12:48												0	0	0	224	531	436	249	0	
09	6.0	9.5	13:12	4.2	20:45	82.7	90.1	20:58	62.8	13:48												0	0	0	301	1136	3	0	0	
10	9.2	11.7	13:41	4.5	00:18	91.4	97.7	09:39	82.2	13:52												0	0	0	0	556	500	384	0	
11	8.5	11.9	02:36	4.0	23:59	85.1	95.3	04:36	64.2	15:15												0	0	0	420	507	507	6	0	
12	6.6	9.5	23:59	3.9	00:06	88.5	99.1	12:34	76.6	04:42												0	0	0	118	743	199	296	84	
13	8.3	10.7	03:28	5.5	23:29	74.6	92.4	00:00	58.4	14:51												0	0	54	1066	259	61	0	0	
14	4.4	7.6	13:13	2.6	23:58	85.7	95.3	10:13	71.0	00:24												0	0	0	232	874	330	4	0	
15	5.7	8.9	21:06	1.8	07:53	86.3	94.7	20:41	73.6	10:58												0	0	0	0	221	873	346	0	0
16	6.7	8.7	13:11	2.3	23:58	72.7	89.2	00:23	60.6	13:22												0	0	0	1143	297	0	0	0	
17	3.1	6.5	13:15	-0.9	08:24	84.3	96.8	08:23	67.8	13:12												0	0	0	478	518	367	77	0	
18	3.0	6.8	14:18	-1.2	08:35	78.7	89.4	08:34	62.2	14:49												0	0	0	622	818	0	0	0	
19	8.5	10.6	15:06	4.8	00:36	81.7	88.0	03:09	75.0	06:38												0	0	0	486	954	0	0	0	
20	9.5	10.0	00:07	9.1	23:27	90.6	98.4	15:02	76.5	00:09												0	0	0	160	507	80	559	134	
21	8.3	9.1	12:29	6.9	23:59	80.6	94.2	00:01	69.7	22:13												0	0	0	780	528	132	0	0	
22	7.4	8.2	10:27	6.5	02:17	88.8	97.1	22:06	73.7	00:05												0	0	0	417	225	55	743	0	
23	7.8	8.7	23:59	7.3	05:29	93.0	98.3	23:49	85.1	14:20												0	0	0	0	493	282	596	69	
24	6.6	9.8	14:01	3.0	08:29	80.8	98.7	01:06	60.8	14:34												0	0	0	626	625	93	45	51	
25	3.0	6.7	12:10	-0.3	07:03	86.0	97.8	09:40	68.4	13:59												0	0	0	357	387	529	167	0	
26	3.5	5.3	13:50	1.9	00:13	86.9	94.7	04:48	72.5	13:17												0	0	0	183	713	544	0	0	
27	3.1	5.4	14:11	1.6	23:40	73.9	90.8	01:06	49.6	15:42												0	0	291	521	451	177	0	0	
28	1.5	6.1	12:38	-2.6	21:22	73.5	95.0	18:46	56.3	12:29												0	0	141	746	464	62	3	24	
29	0.6	4.9	14:17	-2.2	00:21	69.8	79.9	00:37	52.0	14:13												0	0	272	1168	0	0	0	0	
30	4.8	8.5	23:59	-0.2	01:21	82.1	93.2	22:57	67.0	07:56												0	0	0	541	674	225	0	0	
31	10.7	11.9	12:37	8.5	00:00	84.3	93.7	07:05	64.6	22:01												0	0	0	428	301	711	0	0	
Mean	6.1	8.7		3.0		84.3	94.7		70.0													0.00	0.00	0.41	6.77	9.02	4.99	2.48	0.29	
Hi	10.7	11.9		9.1		93.7	99.1		91.1	Tot	82											0	0	758	12588	16768	9285	4616	543	
Lo	0.6	4.9		-2.6		69.8	79.9		49.6																					

Note. Aspirated Psychrometer exposed near house. Winds with a component from 030 deg can produce temperature maxima up to 2C higher than standard screen values recorded about 500m away. Minima on radiation nights can also be about 1C higher than screen values, due partly to topography. 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.