

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

APRIL 2005

Temperature (°C / °F)			Anomaly	Rank in past 124 years			
Mean maximum	14.6	58.3	+1.5	24 th highest			
Mean minimum	5.0	41.0	+0.9	13 th highest			
Daily mean	9.8	49.6	+1.2	17 th highest			
Highest maximum	22.1	71.8	on 30 th	Lowest maximum	7.8	46.0	on 8 th
Highest minimum	12.8	55.0	on 30 th	Lowest minimum	-1.6	29.1	on 9 th
Mean grass minimum	1.2	34.2		Lowest grass minimum	-6.7	19.9	on 9 th
Mean earth @30 cm	10.4	50.7	+1.0	Earth @100 cm	9.7	49.5	+0.9
Frost duration (hrs)	12.5			Rain duration (hrs)	39.2		
Rainfall total (mm / in)	51.8	2.04	106 %	43 rd highest			
Highest daily fall	16.5	0.65	on 24 th				
Number of: Dry days (<0.2mm)	12	Wet days (>0.9mm)	8	days ≥5mm	3		
Sunshine total (hrs)	127.5	Daily mean	4.25	99 %	Sunniest day	9.8	on 2 nd
N ^o days with: Air frost	2	Ground frost	13	Snow falling	1	Snow lying	0
Thunder	2	Hail ≥5mm	0	Small hail/ice	3	Fog @09	0
						Nil sun	2
Air pressure MSL : Mean @09 GMT (mbar/in)		1014.0	-1.3	29.94			
Absolute highest		1030.7		30.44		on 11 th	
Absolute lowest		991.2		29.27		on 18 th	

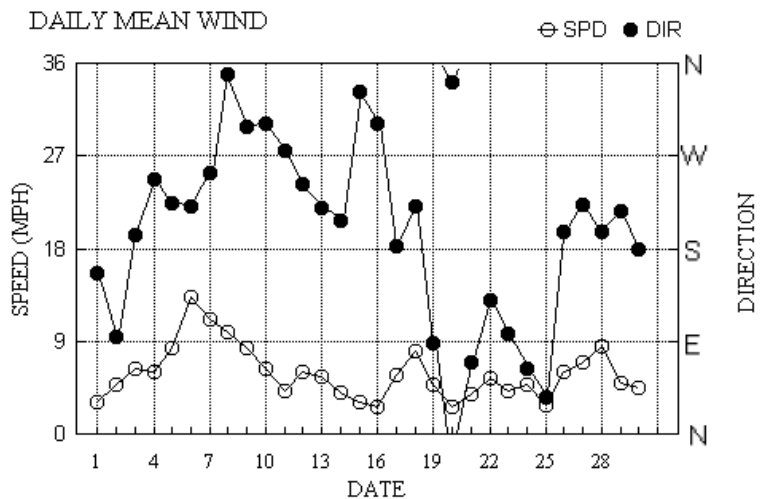
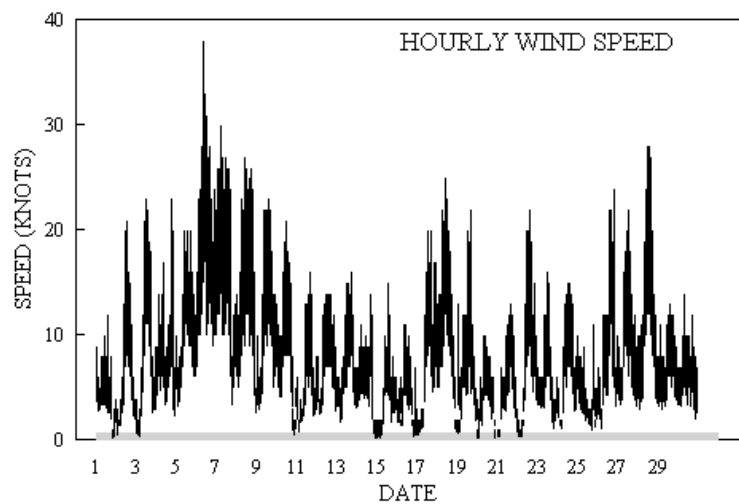
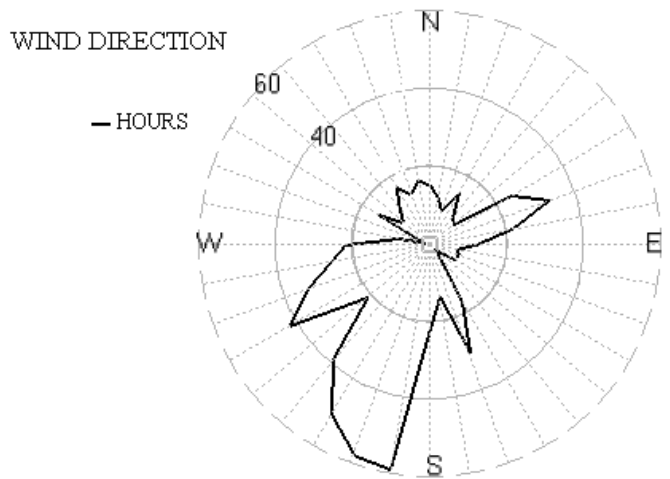
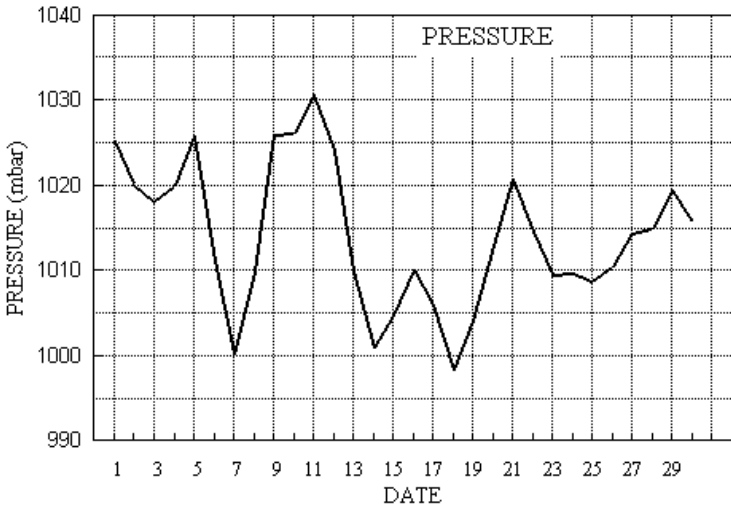
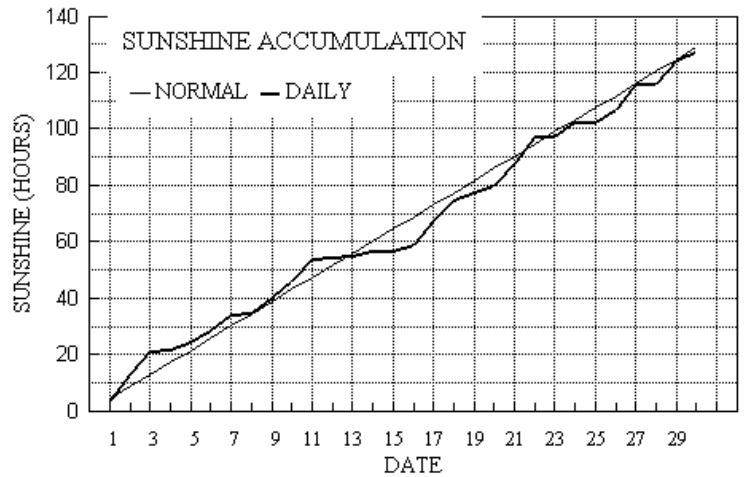
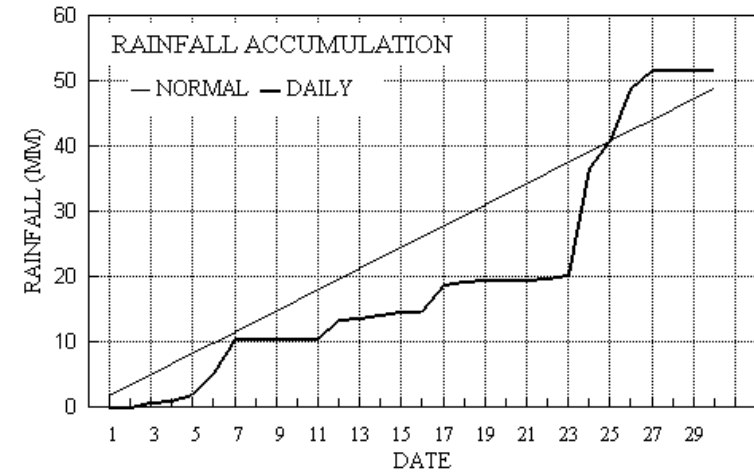
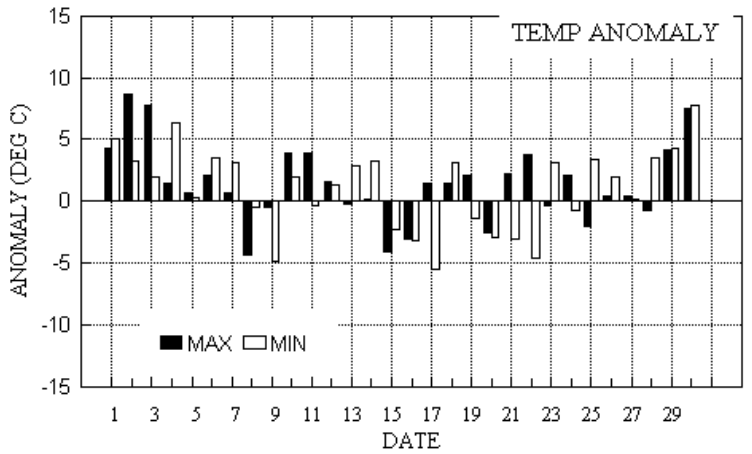
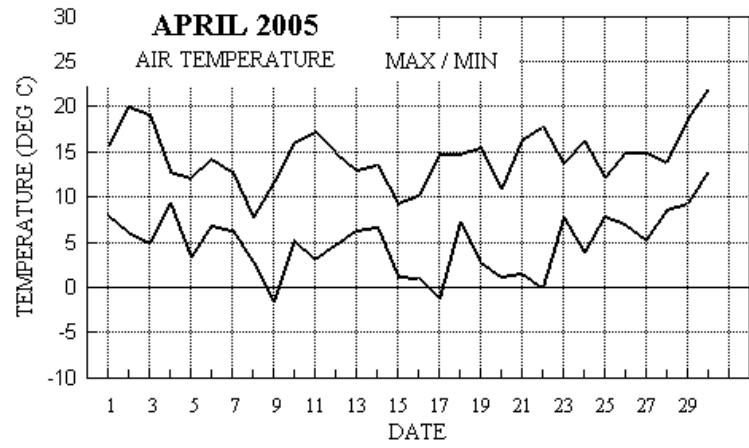
Anomaly = departure from 1971 to 2000 average (degrees C, percent and mbar).

Notes: **Mild, Dull, Above Normal Rainfall**

Temperature: The mean this month is within 0.3° of that for the past 3 Aprils, but is 1.2° above the current 30 year average. The mean maximum is similar to last year's, but is 1.0° lower than that of 2002 and 2003. The mean minimum is highest since 1999, but is only 0.1° above that of 2004. The highest maximum is 1.4° above the long-term median, but is well below the near record value of 26.5° that we saw in 2003. The lowest maximum is 0.4° above the median, and lowest since 2000. The lowest minimum is 0.3° above the median, while the highest minimum, 12.8° on the 30th, is a new record, 3.0° above the median, and 0.2° above the previous record held jointly by 1981 and 1975. The daily mean temperature on the 30th, 17.5°, is also the highest in April in the past 30 years for this station. The earth temperature at 30 cm and 100 cm depth are highest since 2002. The duration of air frost is 4 hours less than average. **Rainfall.** This month's total is 6 % above the climatological average, and is the first month since October last to exceed the average. However, the total is 27.6 mm less than fell in April 2004. The fall of 16.5 mm on the month's wettest day is 5.4 mm above the median. The number of dry days is 5 fewer than average, yet the number of wet days (1 mm or more) is 1 fewer than average. Thunder occurred on the 19th and 27th, and small hail fell on the 7th, 8th and 14th, and there was also a little snow on the 8th. **Sunshine.** Close to the expected average for the electronic instrument currently in use, but least since 2001. The 9.8 hours on the 2nd, the month's sunniest day, is also lowest since 2001. Overall there were 13 days with <3 hours, 10 days with ⇒6 hours and 2 days with ⇒9 hours. **Wind.** The mean wind speed of 5.9 mph is 1.4 mph below average and lowest for April since 1997. The 6th was the windiest day, 13.2 mph, and the month's highest gust of 44 mph was also on that day. The least windy day was the 20th, 2.6 mph, and there were 31 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,2 NE,2 E,4 SE,2 S,5 SW,9 W,2 NW,4. **Humidity.** The overall mean relative humidity this April was 77.3 % and the lowest value reached was 27 % on the 2nd. The mean water vapour content per kg of air was 6.2 g at 0900 GMT and 5.7 g at 1500 GMT. **Commentary. From the 1st to the 10th:** After a very mild start, with a maximum of 20.0° on the 2nd, anomaly +8.6°, cooler conditions arrived on the 3rd with both max and min near or below normal. The anomaly for the max on the 8th, the month's coldest day, was -4.4°, while the anomaly was -4.9° for the min on the 9th, the coldest night. Nevertheless, 10 day mean anomalies for max and min were +2.5° and +2.0°. The 10 day rainfall total of 10.4 mm was 64% of normal, and fell mainly between the 3rd and 7th. Three days had more than 6 hours sunshine, including 9.8 hours on the 2nd, the month's sunniest day. Light or moderate SE'ly winds veered SW'ly by 4th, increased strong on the 6th, became moderate or fresh NW'ly thereafter. **From the 11th to the 20th:** Daily temperature anomalies ranged from +3.9° on the 11th to -4.1° on the 15th for maxima, and +3.2° on 14th to -5.5° on 17th for minima, the resulting 10 day mean anomalies being +0.1° and -0.5° for max/min resp. A little rain fell on most days except 11th, 16th and 20th, but the total amounted to only 56% of normal. Reasonably sunny on the 11th, 17th and 18th, but the 10 day mean was only 79% of normal. Light or moderate W'ly winds on 11th backed SW'ly by 14th, veered NW'ly on 15th, became fresh SW'ly on 18th, backed light N'ly by 20th. **From the 21st to the 30th:** Daily maxima had anomalies between +3.7° and -2.0° until the 29th, but the 30th was the month's warmest day, with an anomaly of +7.5°. The daily anomalies for minima ranged from -4.6° to +4.2° until the 29th, ending the month with a +7.7° anomaly, on the month's mildest night. The resulting 10 day mean anomalies were +1.7° and +1.5° for max/min resp. A wet spell from 24th to 26th gave 28.6 mm, including 16.5 mm on the 24th, the month's wettest day. The resulting 10 day total is 197% of normal. Fairly sunny, with 4 days having >6 hours and a 10 day total 112% of normal. Light or moderate E'ly winds veered S'ly on 26th, increasing fresh on 28th, dropping light thereafter.

B J Burton F.R.Met.S. Hon. Met. Officer to Wokingham Town Council.

Wokingham Climatological Data



Month: APRIL 2005

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	15.6	8.1	0.0	6.6	9.6	9.0	3.6	0.0	1025.1	0 0 0 0	0 0 0 0	0 0 0 0	157	2.1	2.7	190	12	1309	150	4	13	0.0	
2	20.0	6.2	0.0	1.5	10.0	9.0	9.8	0.0	1020.1	0 0 0 0	0 0 0 0	0 0 0 0	94	3.8	4.2	120	21	1210	110	9	11	0.0	
3	19.2	5.0	0.7	0.0	10.4	9.1	7.9	0.0	1018.1	0 0 0 0	0 0 0 0	0 0 0 0	193	5.2	5.5	200	23	1240	200	12	12	1.6	
4	12.8	9.3	0.3	4.6	10.7	9.2	0.3	0.0	1019.9	0 0 0 0	0 0 0 0	0 0 0 0	247	4.4	5.3	290	23	1853	280	10	18	1.3	
5	12.1	3.3	0.9	-0.6	10.3	9.3	3.3	0.0	1025.7	0 1 0 0	0 0 0 0	0 0 0 0	224	6.8	7.2	220	20	1630	240	11	10	2.4	
6	14.3	6.8	3.2	2.8	10.0	9.4	3.9	0.0	1011.1	0 0 0 0	0 0 0 0	0 0 0 0	221	10.8	11.5	210	38	0923	200	18	09	1.6	
7	12.9	6.4	5.2	4.2	9.9	9.5	5.4	0.0	1000.1	0 0 0 0	0 0 0 0	0 0 1 0	253	8.9	9.7	240	30	0532	240	14	05	2.0	
8	7.8	2.8	0.1	2.2	9.8	9.5	0.5	1.6	1009.9	0 0 1 0	0 0 1 0	0 0 1 0	350	8.4	8.6	360	27	1025	350	13	10	0.5	
9	11.7	-1.6	tr	-6.7	9.1	9.5	6.0	6.4	1025.9	1 1 0 0	0 0 0 0	0 0 0 0	299	6.7	7.2	320	23	1431	300	11	16	0.0	
10	16.1	5.3	0.0	1.8	9.1	9.5	5.2	0.0	1026.1	0 0 0 0	0 0 0 0	0 0 0 0	302	4.2	5.5	330	21	1214	330	9	11	0.0	
11	17.3	3.1	0.0	-1.5	9.6	9.5	7.9	0.0	1030.7	0 1 0 0	0 0 0 0	0 0 0 0	275	2.9	3.6	310	16	1535	300	7	14	0.0	
12	15.0	4.8	2.9	-0.9	10.3	9.4	0.8	0.0	1024.1	0 1 0 0	0 0 0 0	0 0 0 0	243	5.1	5.3	250	14	1613	240	8	10	3.6	
13	13.1	6.3	0.3	1.2	10.3	9.5	0.6	0.0	1009.9	0 0 0 0	0 0 0 0	0 0 0 0	219	4.5	4.8	200	16	1739	200	8	17	0.4	
14	13.6	6.7	0.6	2.7	10.5	9.6	1.6	0.0	1000.9	0 0 0 0	0 0 0 0	0 0 1 0	207	3.0	3.5	200	14	1527	190	7	15	0.5	
15	9.3	1.2	0.5	-2.4	10.3	9.7	0.0	0.0	1004.7	0 1 0 0	0 0 0 0	0 0 0 0	333	1.7	2.7	350	15	1354	350	7	13	1.3	
16	10.3	1.0	0.0	-3.6	9.8	9.7	2.3	0.0	1010.0	0 1 0 0	0 0 0 0	0 0 0 0	301	1.1	2.3	280	11	1054	310	5	11	0.0	
17	14.8	-1.3	4.1	-5.1	9.5	9.7	8.5	4.5	1005.9	1 1 0 0	0 0 0 0	0 0 0 0	183	4.6	4.9	190	20	1641	200	10	12	5.8	
18	14.8	7.3	0.4	6.9	10.1	9.8	7.4	0.0	998.3	0 0 0 0	0 0 0 0	0 0 0 0	221	5.3	7.0	260	25	1020	260	12	10	0.3	
19	15.5	2.8	0.4	-1.3	10.4	9.8	2.7	0.0	1004.1	0 1 0 0	1 0 0 0	1 0 0 0	88	3.4	4.2	80	22	1616	80	9	14	0.2	
20	10.9	1.2	0.0	-2.5	10.3	9.8	2.0	0.0	1012.8	0 1 0 0	0 0 0 0	0 0 0 0	342	2.1	2.3	350	10	0830	350	5	10	0.0	
21	16.3	1.5	0.0	-2.1	10.1	9.9	8.4	0.0	1020.7	0 1 0 0	0 0 0 0	0 0 0 0	69	3.2	3.3	70	13	1654	70	7	16	0.0	
22	17.8	0.0	0.2	-3.9	10.4	9.9	9.2	0.0	1014.6	0 1 0 0	0 0 0 0	0 0 0 0	130	3.9	4.7	120	22	1433	160	9	12	2.0	
23	13.7	7.7	0.4	5.3	10.9	10.0	0.0	0.0	1009.5	0 0 0 0	0 0 0 0	0 0 0 0	97	3.1	3.6	110	16	1228	120	6	14	1.6	
24	16.2	3.8	16.5	-0.7	11.0	10.0	5.3	0.0	1009.6	0 1 0 0	0 0 0 0	0 0 0 0	63	4.0	4.1	60	15	1433	60	7	14	7.2	
25	12.1	8.0	4.0	7.8	11.3	10.1	0.2	0.0	1008.7	0 0 0 0	0 0 0 0	0 0 0 0	36	1.0	2.4	210	11	1857	30	5	00	2.7	
26	15.0	7.0	8.1	1.6	11.0	10.2	4.4	0.0	1010.5	0 0 0 0	0 0 0 0	0 0 0 0	197	4.7	5.2	220	24	1942	220	11	14	2.9	
27	15.0	5.3	2.9	-0.5	11.2	10.3	8.8	0.0	1014.3	0 1 0 0	1 0 0 0	1 0 0 0	223	5.5	6.0	220	22	1200	240	10	09	0.9	
28	13.9	8.6	tr	4.3	11.4	10.4	0.1	0.0	1015.0	0 0 0 0	0 0 0 0	0 0 0 0	196	7.1	7.4	200	28	1125	200	12	13	0.0	
29	18.7	9.3	tr	3.5	11.6	10.5	8.7	0.0	1019.4	0 0 0 0	0 0 0 0	0 0 0 0	217	4.1	4.4	240	13	1455	220	6	14	0.2	
30	22.1	12.8	0.1	10.3	12.5	10.5	2.7	0.0	1015.7	0 0 0 0	0 0 0 0	0 0 0 0	179	2.9	3.8	220	14	0818	210	6	08	0.2	
Total			51.8				127.5	12.5															39.2
Mean	14.6	5.0		1.2	10.4	9.7	4.25	0.4	1014.0					224	2.0	5.1							
Anom	+1.5	+0.9	106%		+1.0	+0.9	99%																
Daily mean		9.8																					
Anom		+1.2																					

Total

Mean

Anom

Daily mean

Anom

Number of days with:

Air frost = 2

Snow falling = 1

Hail=>5mm = 0

Ground frost = 13

Snow lying = 0

Hail<5mm or ice = 3

Nil sun = 2

Thunder = 2

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 APRIL 2005

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	50	8	17	03	07	9.5	7.6	88	6.4	1025.1	1	006	05	2	2	7	6	3	3	2	84708	87712	1	/Ac65 /Ci72	
2	25	3	07	04	07	12.8	8.4	75	6.8	1020.1	8	006	05	4	1	3	0	9	3	0	83365		2	Ac str vir Fog 900m @06z	
3	62	7	20	07	12	13.6	9.7	77	7.5	1018.1	2	013	01	2	2	2	1	4	7	/	82818	87359	3	Cu hum	
4	25	8	22	06	11	10.5	9.9	96	7.6	1019.9	2	010	58	6	5	8	5	3	/	/	82708	87712	88615	4	CF 0907
5	82	7	24	09	14	9.0	4.5	73	5.2	1025.7	1	008	03	2	2	1	1	5	3	8	81820	87278	5	1Ac68 1Ci75 COTRA Cu hum Halo 22°	
6	68	8	20	16	36	9.0	6.6	85	6.1	1011.1	8	027	63	6	6	5	7	5	2	/	85820	88550	6	1Sc30	
7	65	7	25	10	23	8.5	4.4	75	5.3	1000.1	1	011	80	8	1	6	8	5	6	/	81820	83825	7	3Sc40 2Ac62	
8	40	8	34	09	22	3.0	2.0	93	4.4	1009.9	2	035	68	7	6	7	5	3	2	/	85706	87620	88557	8	Ice pellets 0845z, brief. Sn few flakes
9	84	1	33	09	20	6.8	0.7	65	3.9	1025.9	1	015	03	0	0	1	1	5	0	1	81825		9	1Ci80 COTRA Cu fra	
10	81	6	32	08	16	11.7	6.4	70	5.9	1026.1	1	011	03	2	2	2	1	5	0	1	82822	85078	10	COTRA Cu hum	
11	80	2	25	02	04	12.8	6.6	66	5.9	1030.7	1	003	02	1	1	1	5	7	0	1	81650		11	2Ci80 COTRA	
12	65	8	25	07	12	11.2	7.7	79	6.5	1024.1	7	006	03	1	1	8	5	4	/	/	82715	87620	88635	12	
13	59	7	25	04	08	8.5	7.4	93	6.4	1009.9	8	012	21	6	2	7	8	3	/	/	82708	86812	87650	13	
14	82	7	20	05	09	8.1	5.7	85	5.8	1000.9	2	003	02	2	2	1	1	5	7	/	81820	86465	14	1Ac58 Cu hum	
15	40	8	35	03	05	7.1	6.0	93	5.9	1004.7	3	010	05	2	2	2	6	3	3	7	82708	84368	88275	15	Halo 22° part
16	75	5	27	05	11	8.1	4.0	75	5.1	1010.0	2	011	03	1	1	3	8	4	0	1	82818	83075	16	1Sc25 COTRA Cu hum U/a cont, faint	
17	84	3	21	06	10	9.5	0.0	52	3.8	1005.9	8	017	03	1	1	1	0	9	7	1	81365	83080	17	1Ci75 COTRA	
18	84	5	24	11	20	10.5	6.2	75	6.0	994.0	3	027	25	8	6	4	8	4	0	2	84818		18	1Sc45 1Ci75 Cu hum	
19	65	6	10	06	12	10.4	7.0	80	6.3	1004.1	2	008	03	2	2	6	8	4	0	0	85818	83630	19	Cu med. Cu con SE	
20	70	7	34	04	10	8.7	5.4	80	5.6	1012.8	2	016	03	1	1	7	8	4	/	/	85818	87628	20		
21	40	8	07	03	06	7.8	6.3	90	5.9	1020.7	1	007	05	2	2	8	6	3	/	/	88708		21		
22	59	5	12	05	08	13.1	5.7	61	5.7	1014.6	8	006	05	1	1	4	5	6	0	1	81645	84650	22	3Ci78	
23	50	8	10	06	12	10.6	8.1	85	6.8	1009.5	3	004	61	6	2	5	5	6	7	/	81645	85656	88462	23	3Ac58
24	40	1	07	06	12	11.5	7.6	77	6.5	1009.6	0	000	05	0	0	1	1	4	0	0	81818		24	Cu fra	
25	25	8	05	03	09	8.5	7.9	96	6.6	1008.7	3	010	63	6	2	7	7	2	2	/	83705	87708	88515	25	
26	62	8	16	04	12	11.4	9.6	89	7.5	1010.5	6	005	60	6	2	7	5	4	2	/	82812	87640	88458	26	2Sc25
27	82	4	25	09	17	11.9	6.9	71	6.2	1014.3	1	014	03	1	1	4	2	5	0	3	84820		27	1Ci70 Cu med Cb top SW	
28	82	8	19	11	18	12.9	8.1	72	6.7	1015.0	8	005	21	6	2	1	5	7	7	/	81656	83357	85360	28	8As65
29	72	7	24	03	07	13.5	9.0	74	7.1	1019.4	0	012	03	2	2	1	1	5	0	1	81820	87078	29	1Cc75 COTRA Cu hum U/a cont	
30	60	8	21	06	14	15.1	13.7	91	9.8	1015.7	7	001	02	2	2	8	6	3	/	/	87707	88709	30		

Mean vis = 19.7 km
 Mean cloud = 6.2 78%
 Mean wind speed = 6.3 kn
 Mean gust = 13 kn
 Mean TT = 10.2 C
 Mean TdTd = 6.6 C
 Mean RH = 79.4 %
 Mean r = 6.2 g/kg
 Mean PPP = 1013.9 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.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for APRIL 2005

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	63	7	11	02	06	14.7	7.2	61	6.3	1023.1	7	010	02	2	2	3	8	6	3	1	83835	86075	1	1Sc50 1Ac68	
2	65	5	12	08	16	19.5	1.6	30	4.2	1017.2	6	013	03	1	1	5	0	9	7	0	82364	84365	2	Ac str du vir	
3	77	6	19	09	21	18.6	8.4	51	6.8	1018.2	4	000	02	2	2	1	1	6	3	1	81840	86078	3	1Ac65 COTRA Cu hum	
4	84	7	26	06	11	11.9	4.9	62	5.4	1020.8	3	001	01	2	2	1	2	5	7	2	81828	83458	86362	4	/Ci72 Cu med
5	86	8	24	08	16	11.7	2.5	53	4.5	1024.4	7	009	03	2	2	7	8	6	/	7	83845	86656	88275	5	
6	82	3	25	12	23	14.0	4.8	54	5.4	1006.8	7	021	25	8	6	3	8	6	0	3	83835			6	1Sc45 1Ci70 Cu med Cb top SE jpS
7	75	5	26	14	26	12.1	3.9	57	5.1	999.2	8	006	15	1	1	3	9	6	6	3	81930	83835		7	1Ac58 2Ci70 Cu con CbNW&NE jp all quads
8	84	7	36	12	24	6.6	-1.8	55	3.3	1014.5	2	022	83	8	2	7	8	6	/	/	82830	87650		8	2Sc40 Cu med Pptn v slt.
9	86	7	31	10	23	10.6	-1.0	44	3.5	1024.6	7	011	02	2	2	6	4	6	1	6	83848	85656	86275	9	1As68 Cu hum
10	82	5	34	06	17	15.4	5.9	53	5.7	1027.2	2	008	03	1	1	5	8	6	0	1	82845	84656		10	2Ci75 Cu med
11	84	5	32	07	14	15.7	4.4	47	5.1	1028.9	7	008	02	2	2	5	8	6	0	0	81845	84656		11	2Cu50 Cu hum
12	84	7	25	07	14	14.7	8.8	68	7.0	1019.9	8	024	01	2	2	7	8	5	/	1	82822	86630		12	3Sc45 /Ci75 Cu hum
13	80	7	23	08	14	12.5	4.7	59	5.3	1005.8	7	021	02	2	2	7	8	6	3	/	82830	83640	85656	13	/Ac59 Cu med
14	86	7	18	03	09	12.2	2.9	53	4.7	1000.3	8	002	03	2	2	5	8	6	6	1	83838	83650		14	2Ac58 4Ci75 Cu con
15	57	8	36	05	12	8.5	7.0	90	6.3	1006.0	2	006	61	6	2	2	8	4	2	/	81712	88550		15	1Cu15 1Sc40 Cu med
16	86	8	35	03	10	9.8	3.4	64	4.8	1010.3	7	001	02	2	2	8	8	6	/	/	83830	88635		16	Cu hum
17	80	7	19	09	17	13.1	3.6	52	5.0	1000.8	8	022	03	1	1	2	0	9	5	6	81362	87275		17	2Ac64 COTRA Halo 22° part
18	86	3	25	08	18	14.1	3.0	47	4.8	998.3	1	013	03	1	1	3	8	7	6	1	82850			18	1Sc56 1Ac57 1Ci75 Cu con
19	62	7	08	08	19	11.4	7.3	76	6.4	1005.3	3	009	91	9	8	5	9	4	6	3	81815	84930	85070	19	1Sc50 1Ac62 Cu fra. jp all quads. Last T 1440
20	77	8	33	04	08	10.7	4.4	65	5.2	1014.9	1	010	02	2	2	8	8	5	/	/	82828	88630		20	
21	62	2	06	05	12	15.9	1.4	37	4.2	1018.5	8	010	01	0	0	1	4	7	0	0	81850			21	1Sc56 Cu hum
22	70	7	14	10	22	17.2	-0.2	31	3.7	1011.4	7	018	03	1	1	1	0	9	3	1	81368	83073	87078	22	COTRA Parhelion&u/a cont
23	80	7	11	06	14	13.5	7.4	67	6.4	1009.8	7	001	02	6	2	7	8	5	7	/	82828	87645		23	/Ac65 Cu hum
24	58	7	06	07	15	16.0	8.1	60	6.8	1007.5	8	007	05	2	2	5	8	6	3	2	81830	85645	86075	24	4Ac65 Cu med Sky turbid
25	50	8	20	01	03	11.0	9.8	92	7.6	1009.7	2	005	05	2	2	8	5	3	/	/	83708	84712	88618	25	
26	84	5	22	10	22	14.3	7.4	63	6.5	1008.5	6	007	01	6	2	5	2	6	0	0	85830			26	Cu med
27	88	3	24	08	16	11.6	8.4	81	6.8	1016.3	0	015	25	9	8	2	9	5	6	3	81925			27	1Cu28 1Sc50 1Ac60 2Ci70 jp SW&E
28	68	7	21	11	23	13.6	9.9	79	7.6	1014.2	7	005	01	2	2	7	5	5	/	/	87620	87650		28	
29	83	7	23	07	13	18.0	8.3	53	6.8	1019.0	5	003	02	2	2	7	8	6	8	1	81840	87656		29	1Ac59 /Ci75 Cu hum Ac cas
30	81	4	22	03	08	20.9	14.5	67	10.3	1012.1	7	020	01	1	1	2	2	6	3	1	82830	83075		30	2Ac62 Cu med

Mean vis = 35.3 km
 Mean cloud = 6.1 77%
 Mean wind speed = 7.2 kn
 Mean gust = 16 kn
 Mean TT = 13.7 C
 Mean TdTd = 5.4 C
 Mean RH = 59.0 %
 Mean r = 5.7 g/kg
 Mean PPP = 1013.1 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
 APRIL 2005

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	10.8	15.6	14:27	8.2	23:07	81.2	97.8	00:13	55.2	14:25		0	0	234	326	275	439	166	0
02	12.6	20.0	13:35	7.6	23:52	66.7	97.7	06:58	27.4	14:37		0	358	237	319	18	70	438	0
03	12.9	19.2	13:32	6.4	01:16	70.1	86.3	02:33	47.8	13:52		0	0	467	501	472	0	0	0
04	10.0	12.8	15:51	5.2	22:30	81.5	99.0	09:11	47.4	15:51		0	0	207	194	806	132	98	3
05	8.0	12.1	13:13	3.5	04:21	75.8	94.4	04:45	51.3	15:12		0	0	300	434	374	332	0	0
06	10.0	14.3	14:56	7.5	00:00	76.2	94.0	12:10	46.7	17:13		0	0	266	313	803	58	0	0
07	8.1	12.9	14:27	5.7	23:10	77.4	96.0	19:39	54.5	15:10		0	0	172	758	277	100	133	0
08	4.5	7.8	14:00	-0.3	23:37	72.2	94.1	09:28	48.0	16:28		0	0	230	883	250	77	0	0
09	5.7	11.2	16:03	-1.1	03:41	64.9	80.3	23:57	38.9	13:23	50	0	4	501	877	8	0	0	0
10	10.7	16.1	13:11	5.4	05:00	72.1	91.5	05:16	41.2	12:36		0	0	386	344	610	100	0	0
11	11.2	17.3	12:03	4.5	04:57	67.8	95.3	05:27	37.8	12:02		0	54	501	432	161	269	23	0
12	10.8	15.0	15:36	5.6	04:50	78.4	95.9	05:28	51.4	17:41		0	0	30	979	195	165	71	0
13	9.1	13.1	15:06	6.5	05:54	81.4	98.2	08:31	55.9	15:05		0	0	54	445	616	155	168	2
14	8.4	13.6	13:57	3.4	23:55	80.9	95.9	23:46	47.2	14:13		0	0	173	377	368	468	54	0
15	5.7	9.3	13:50	1.6	06:03	91.8	99.4	07:16	76.6	13:59		0	0	0	31	573	223	453	160
16	6.2	10.3	14:41	1.6	05:22	80.4	98.9	06:38	58.3	17:13		0	0	53	677	164	82	411	53
17	7.5	14.8	12:35	0.1	04:41	76.0	97.4	23:54	38.9	12:15		0	9	482	119	132	525	173	0
18	10.5	14.8	14:35	3.9	23:43	72.7	97.9	03:43	39.7	14:06		0	2	487	339	149	36	427	0
19	8.8	15.5	13:40	3.8	01:00	76.0	93.2	03:42	42.0	13:38		0	0	162	625	456	197	0	0
20	7.6	10.9	14:28	2.6	02:44	81.8	96.6	06:42	62.0	14:32		0	0	0	630	186	430	194	0
21	9.5	16.3	14:06	3.0	02:23	67.2	98.7	03:06	32.1	16:28		0	308	354	190	83	114	380	11
22	10.7	17.8	13:44	1.3	05:17	60.4	93.1	06:12	28.5	13:49		0	358	365	358	203	156	0	0
23	10.6	13.7	13:05	8.0	03:12	82.2	93.0	07:16	66.1	14:53		0	0	0	510	731	199	0	0
24	11.4	16.3	13:44	4.9	04:44	75.7	95.2	23:58	54.0	13:40		0	0	137	699	217	384	3	0
25	9.5	12.1	17:28	8.1	08:36	95.2	99.3	09:48	86.0	19:10		0	0	0	0	145	456	463	376
26	10.9	15.0	15:15	8.2	23:59	86.9	97.9	23:52	56.2	16:25		0	0	102	228	261	169	680	0
27	10.2	15.0	11:08	6.0	05:05	83.6	99.0	04:02	48.6	11:02		0	0	119	435	225	208	157	296
28	12.0	13.9	15:07	9.9	02:41	83.6	93.0	23:15	66.3	07:39		0	0	0	502	398	540	0	0
29	14.0	18.6	14:16	9.5	04:38	75.5	93.6	23:58	44.0	13:48		0	0	412	277	232	519	0	0
30	16.6	22.1	15:32	12.9	01:12	83.0	97.9	06:03	56.9	16:31		0	0	82	452	337	155	414	0
Mean	9.8	14.6		5.1		77.3	95.4		50.2			0.00	0.61	3.62	7.36	5.40	3.75	2.73	0.50
Hi	16.6	22.1		12.9		95.2	99.4	Tot	86.0		50	0	1093	6513	13254	9725	6758	4906	901
Lo	4.5	7.8		-1.1		60.4	80.3		27.4										

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.