

# 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 2004

Temperature (°C / °F)			Anomaly	Rank			
Mean maximum	14.5	58.1	+1.4	24 <sup>th</sup> highest in 123 years			
Mean minimum	4.9	40.8	+0.8	16 <sup>th</sup> highest in 123 years			
Daily mean	9.7	49.5	+1.1	20 <sup>th</sup> highest in 123 years			
Highest maximum	21.2	70.2	on 24 <sup>th</sup>	Lowest maximum	9.0	48.2	on 29 <sup>th</sup>
Highest minimum	10.0	50.0	on 27 <sup>th</sup>	Lowest minimum	-0.1	31.8	on 9 <sup>th</sup>
Mean grass minimum	1.4	34.5		Lowest grass minimum	-4.6	23.7	on 9 <sup>th</sup>
Mean earth @30 cm	10.2	50.4	+0.8	Earth @100 cm	9.3	48.7	+0.5
Frost duration (hrs)	0.6			Rain duration (hrs)	62.7		
Rainfall total (mm / in)	79.4	3.13	162 %	12 <sup>th</sup> highest in 123 years			
Highest daily fall	16.6	0.65	on 18 <sup>th</sup>				
Number of: Dry days (<0.2mm)	14	Wet days (>0.9mm)	13	days ≥5mm	6		
Sunshine total (hrs)	130.5	Daily mean	4.35	Sunniest day	13.7	on 23 <sup>rd</sup>	
N° days with: Air frost	1	Ground frost	12	Snow falling	0	Snow lying	0
Thunder	4	Hail ≥5mm	1	Small hail/ice	2	Fog @09	0
Air pressure MSL : Mean @09 GMT (mbar/in)			1013.0	-2.3	29.91		
Absolute highest			1028.0		30.36	on 24 <sup>th</sup>	
Absolute lowest			976.7		28.84	on 18 <sup>th</sup>	

Anomaly = departure from 1971 to 2000 average.

Notes:

**Mild.**

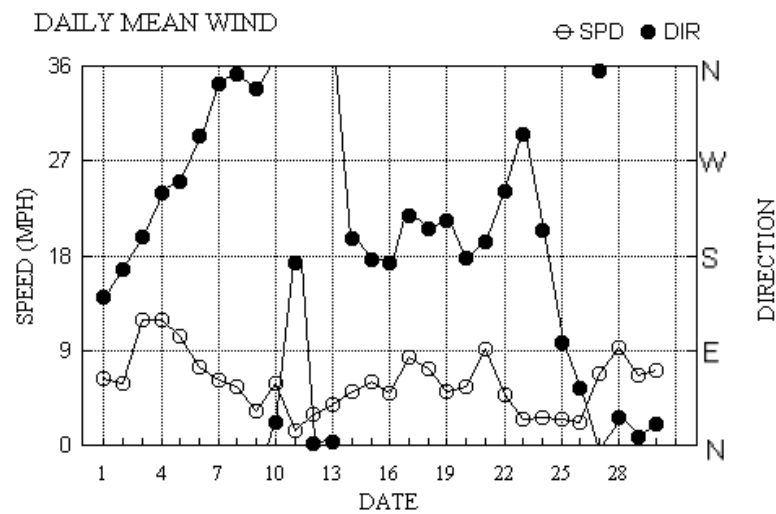
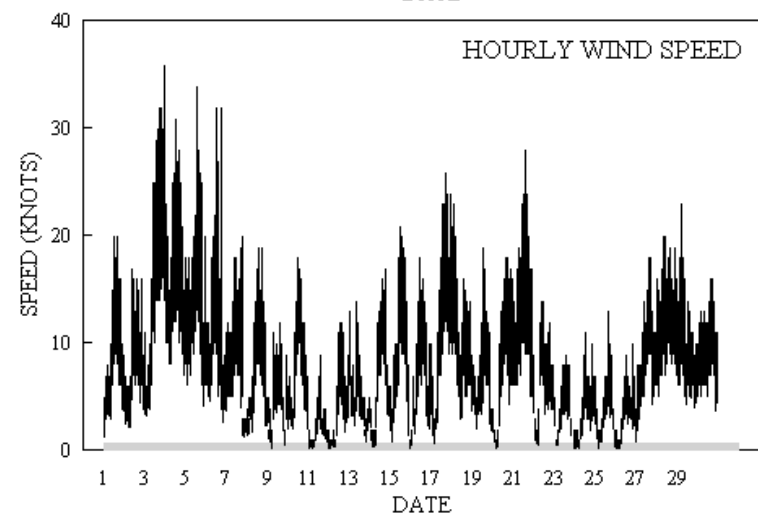
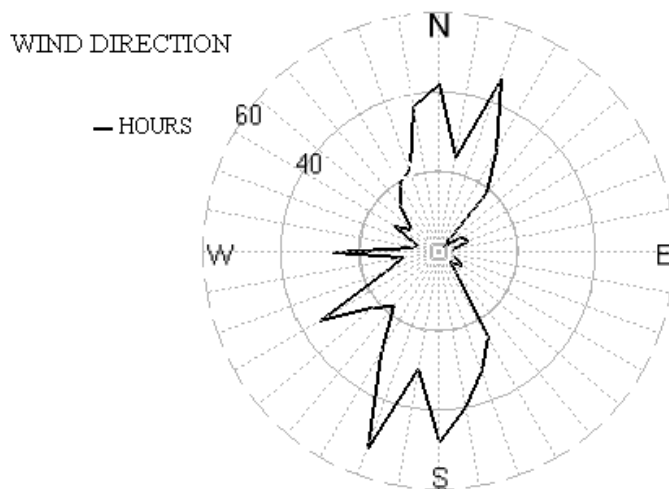
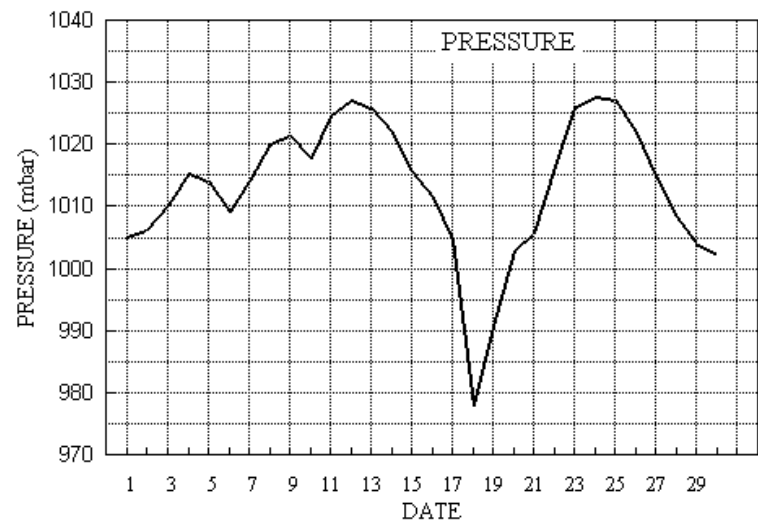
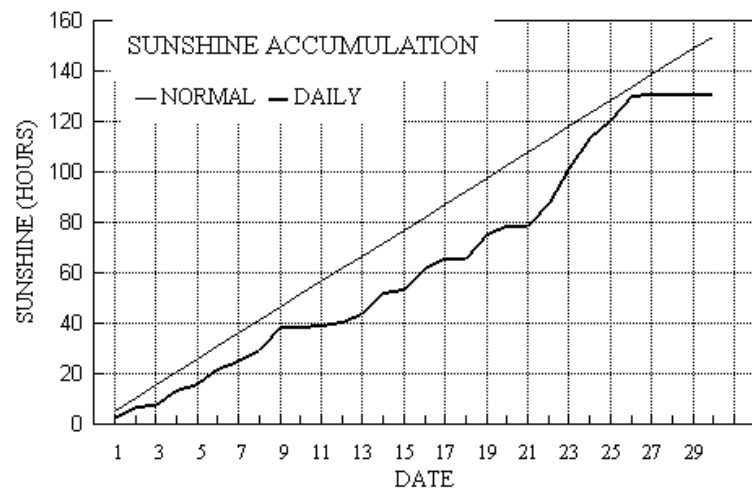
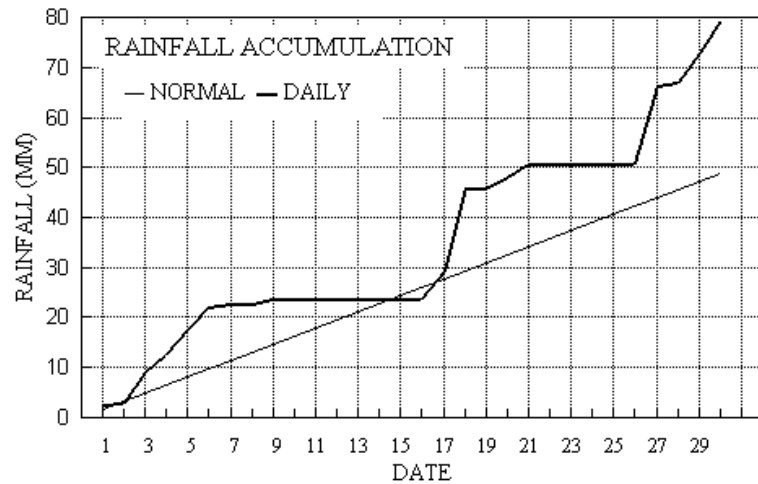
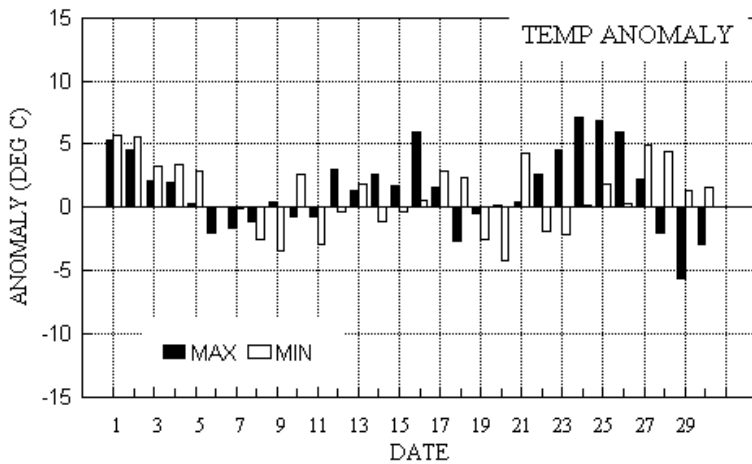
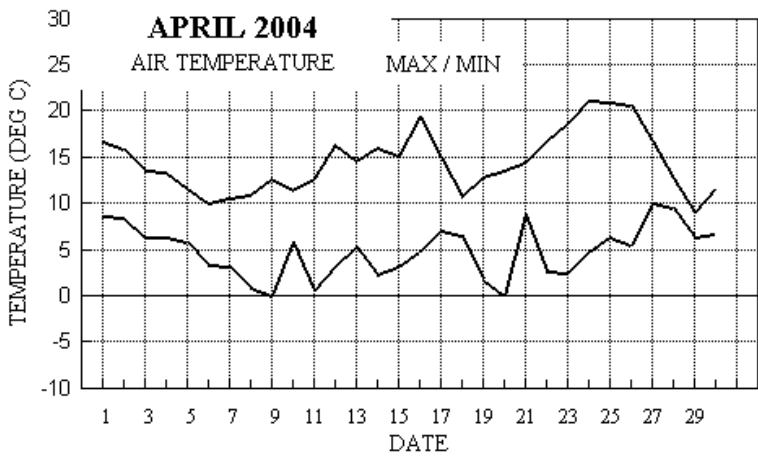
**Very Wet.**

**Dull.**

**Temperature.** Although the mean temperature this April is 1.1° above the current 30 year average, it is lowest since 2001. The mean maximum is also lowest since 2001, unlike the mean minimum which is highest since 1999. The month's lowest maximum, 9.0°, is 1.6° above the median, but was all the more noticeable as it occurred soon after a warm spell, and just 5 days after the month's highest temperature was recorded. The lowest minimum, -0.1°, is 1.8° above the median and is highest since 1987. The highest minimum, 10.0°, is close to the median. The lowest grass minimum, -4.6°, is 2.7° above average, and the highest April value in the past 25 years at this station. The number of air frosts is 3 fewer, and ground frosts 2 fewer, than average. **Rainfall.** This is the wettest April since the record breaking 2000, when 140.4 mm fell. This month's total of 79.4 mm is 37.0 mm above the long-term median, and is just inside the very wet category. The month's highest 24 hour fall of 16.6 mm is also highest since 2000, and is 5.5 mm above the median. Thunder was recorded on 4 days, the most since 1998, on the 4<sup>th</sup>, 19<sup>th</sup>, 27<sup>th</sup> and 28<sup>th</sup>. Hail 6 mm dia. fell on the 6<sup>th</sup>. Despite the wet nature of the month as a whole, there were two dry spells, the first of 7 days ended on the 16<sup>th</sup> and the second of 5 days ended on the 26<sup>th</sup>. **Sunshine.** The daily mean value of 4.35 hours is rather on the low side for April, 0.65 hours below the median, but only lowest since 2001. Nevertheless, the 23<sup>rd</sup> was an outstandingly sunny day, with 13.7 hours recorded, 95 % of the maximum possible, and a new record for this station. Overall there were 13 days with <3 hours, 9 with =>6 hours, 6 with =>9 hours and 2 with =>12 hours. **Wind.** The mean speed for the month was 6.0 mph this April, 1.4 mph below average and lowest since 1997. The 3<sup>rd</sup> and 4<sup>th</sup> were jointly the month's windiest days, mean speed 11.9 mph, and the month's highest gust of 41 mph was on the 3<sup>rd</sup>. The 11<sup>th</sup> was the least windy day, mean 1.5 mph, and there were 46 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,9 NE,2 E,1 SE,1 S,8 SW,6 W,1 NW,2. **Humidity.** The overall mean relative humidity was 77.8 %, while the lowest value recorded was 27 % on the 23<sup>rd</sup>. The mean amount of water vapour per kilogram of dry air was 6.3 g at 0900 and 5.7 g at 1500 GMT. **Pressure.** The lowest pressure recorded this month, 976.7 mbar on the 18<sup>th</sup>, is lowest for April since 1994. **Commentary.** From the 1<sup>st</sup> to the 10<sup>th</sup>. The month started on a mild note, with both the maximum and minimum on the 1<sup>st</sup> over 5° above normal. From the 5<sup>th</sup> onwards, daily values were near or below normal, with an anomaly of -3.4° for the min on the 9<sup>th</sup>, the month's coldest night, and giving 10 day mean anomalies of +0.9° and +1.7° for max and min resp. Fairly wet up to the 6<sup>th</sup>, then drier, with a 10 day total 145 % of normal. A mixed bag of daily sunshine, just the 9<sup>th</sup> with over 9 hours, and a daily mean only 76 % of normal. Moderate SE'ly winds on the 1<sup>st</sup> became strong SW'ly on the 3<sup>rd</sup>, fresh W'ly on the 4<sup>th</sup>, and moderate N'ly on the 7<sup>th</sup>. From the 11<sup>th</sup> to the 20<sup>th</sup>. Apart from the maximum on the 16<sup>th</sup> at 6° above normal, temperatures were generally not far from normal throughout, and the 10 day anomalies were +1.2° and -0.4° for max and min resp. Dry until the 16<sup>th</sup>, then a wet spell, the month's wettest day on the 18<sup>th</sup>, and a 10 day total 151 % of normal. A scattering of sunny days, 3 with over 8 hours apiece, otherwise a rather poor showing, with a 10 day mean 78 % of normal. Light and variable winds on the 11<sup>th</sup> became moderate S'ly on the 14<sup>th</sup>, temporarily increasing fresh on the 17<sup>th</sup>. From the 21<sup>st</sup> to the 30<sup>th</sup>. A warm spell from the 23<sup>rd</sup> to the 26<sup>th</sup> saw daily maxima 6° or 7° above normal, with an anomaly of +7.1° on the 24<sup>th</sup>, the month's warmest day. However, values dropped to below normal on the 28<sup>th</sup>, and the month's coldest day on the 29<sup>th</sup> had an anomaly of -5.6°. Daily minima were generally closer to normal, with anomalies of -2.2° on the 23<sup>rd</sup> and +4.9° on the 27<sup>th</sup>. The 10 day mean anomalies were +1.9° and +1.5° for max and min resp. Dry from the 22<sup>nd</sup> to the 26<sup>th</sup>, but 31.1 mm fell on the remaining days, giving a 10 day total 191 % of normal. Sunny days on the 22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup> and 26<sup>th</sup> brought the 10 day mean to 102 % of normal, despite the last 3 days of the month being sunless. Fresh S'ly winds on the 21<sup>st</sup> became light and variable until the 26<sup>th</sup>, then moderate N'ly.

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

# Wokingham Climatological Data



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: APRIL 2004

Date	Max C	Min C	Rain mm	Grass Min	30cm C	100cr 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	16.7	8.7	2.6	4.6	8.8	8.0	2.1	0.0	1005.1	0 0 0 0	0 0 0 0	0 0 0 0	140	5.1 5.5	140 20 1504	150 9 12	3.0
2	15.9	8.5	0.1	5.9	9.4	8.1	4.7	0.0	1006.3	0 0 0 0	0 0 0 0	0 0 0 0	167	5.0 5.1	180 17 0945	170 8 11	0.4
3	13.5	6.3	6.3	0.9	9.6	8.3	0.9	0.0	1010.2	0 0 0 0	0 0 0 0	0 0 0 0	198	9.7 10.3	200 36 2318	190 16 21	5.4
4	13.4	6.4	3.6	4.3	9.6	8.5	5.7	0.0	1015.3	0 0 0 0	1 0 1 0	0 0 0 0	239	10.2 10.3	230 31 1345	230 14 13	0.8
5	11.7	5.8	4.9	2.9	9.4	8.6	2.8	0.0	1014.0	0 0 0 0	0 0 0 0	0 0 0 0	251	8.6 9.0	260 34 1314	270 14 15	1.4
6	10.1	3.3	4.6	0.4	9.0	8.7	5.8	0.0	1009.1	0 0 0 0	0 1 0 0	0 0 0 0	294	5.6 6.4	320 32 1707	300 11 13	1.8
7	10.6	3.2	0.5	-0.9	8.7	8.8	3.2	0.0	1014.1	0 1 0 0	0 0 0 0	0 0 0 0	344	5.0 5.3	20 20 1858	350 9 10	0.2
8	11.0	0.8	tr	-3.8	8.5	8.8	4.1	0.0	1020.1	0 1 0 0	0 0 0 0	0 0 0 0	353	4.6 4.8	360 19 1341	360 9 13	0.0
9	12.6	-0.1	1.1	-4.6	8.5	8.8	9.2	0.6	1021.4	1 1 0 0	0 0 0 0	0 0 0 0	339	2.2 2.8	360 12 1528	350 5 15	3.8
10	11.5	5.9	tr	0.2	9.1	8.8	0.1	0.0	1017.7	0 0 0 0	0 0 0 0	0 0 0 0	21	4.6 5.1	30 18 1127	30 10 11	0.1
11	12.6	0.6	0.0	-3.4	9.0	8.9	0.3	0.0	1024.6	0 1 0 0	0 0 0 0	0 0 0 0	173	0.5 1.3	170 9 1332	180 3 12	0.0
12	16.4	3.1	tr	-1.1	9.4	8.9	1.4	0.0	1027.2	0 1 0 0	0 0 0 0	0 0 0 0	1	2.2 2.5	40 12 1251	40 6 12	0.0
13	14.7	5.3	tr	-0.4	9.9	9.0	3.2	0.0	1025.8	0 1 0 0	0 0 0 0	0 0 0 0	3	2.3 3.3	360 14 0815	350 7 08	0.0
14	16.0	2.3	0.0	-2.2	10.0	9.0	8.6	0.0	1021.9	0 1 0 0	0 0 0 0	0 0 0 0	196	4.3 4.4	190 17 1728	190 10 17	0.0
15	15.1	3.1	0.0	-1.2	9.8	9.1	1.4	0.0	1015.6	0 1 0 0	0 0 0 0	0 0 0 0	177	5.0 5.2	190 21 1110	190 10 13	0.0
16	19.4	4.7	0.0	0.4	9.8	9.2	8.2	0.0	1011.5	0 0 0 0	0 0 0 0	0 0 0 0	174	3.2 4.3	160 18 1028	180 8 13	0.0
17	14.9	7.1	5.5	3.4	10.4	9.3	3.9	0.0	1004.6	0 0 0 0	0 0 0 0	0 0 0 0	218	6.5 7.3	220 26 1632	210 13 17	7.6
18	10.7	6.5	16.6	5.8	10.4	9.4	0.1	0.0	977.9	0 0 0 0	0 0 0 0	0 0 0 0	205	4.5 6.3	180 23 0131	170 11 02	10.4
19	12.9	1.7	0.2	-2.1	9.9	9.5	9.6	0.0	990.9	0 1 0 0	1 0 1 0	0 0 0 0	213	4.1 4.4	210 19 1317	210 9 13	0.3
20	13.6	0.0	2.3	-4.0	10.0	9.5	3.1	0.0	1002.9	0 1 0 0	0 0 0 0	0 0 0 0	178	4.5 4.9	200 18 1632	200 10 14	5.4
21	14.5	8.8	2.6	8.3	10.3	9.5	0.1	0.0	1005.6	0 0 0 0	0 0 0 0	0 0 0 0	194	7.6 7.9	180 28 1434	180 12 14	2.2
22	16.7	2.7	tr	-1.7	10.3	9.6	9.0	0.0	1016.3	0 1 0 0	0 0 0 0	0 0 0 0	242	3.9 4.1	250 14 0905	240 8 09	0.0
23	18.6	2.4	0.0	-1.9	10.6	9.8	13.7	0.0	1025.9	0 1 0 0	0 0 0 0	0 0 0 0	295	1.8 2.1	300 9 1410	280 4 14	0.0
24	21.2	4.7	0.0	0.4	11.2	9.9	12.4	0.0	1027.6	0 0 0 0	0 0 0 0	0 0 0 0	204	0.7 2.2	270 11 1248	200 4 23	0.0
25	20.9	6.4	0.0	2.4	11.9	10.0	6.5	0.0	1027.2	0 0 0 0	0 0 0 0	0 0 0 0	98	0.9 2.2	40 13 1428	40 5 14	0.0
26	20.6	5.4	0.0	0.5	12.3	10.1	10.0	0.0	1022.0	0 0 0 0	0 0 0 0	0 0 0 0	54	1.1 1.9	180 10 2039	80 4 12	0.0
27	16.8	10.0	15.6	6.3	12.7	10.3	0.4	0.0	1014.7	0 0 0 0	1 0 0 0	0 0 0 0	356	5.8 5.9	350 18 1535	340 10 15	5.8
28	12.6	9.5	0.6	8.2	12.7	10.5	0.0	0.0	1008.2	0 0 0 0	1 0 0 0	0 0 0 0	26	7.9 8.0	20 20 0804	30 10 14	1.4
29	9.0	6.4	5.9	6.2	12.2	10.6	0.0	0.0	1004.0	0 0 0 0	0 0 0 0	0 0 0 0	7	5.7 5.8	10 23 0441	360 10 04	6.7
30	11.6	6.7	6.4	7.4	11.6	10.7	0.0	0.0	1002.2	0 0 0 0	0 0 0 0	0 0 0 0	20	6.1 6.1	30 16 1542	20 8 17	6.0
Total			79.4				130.5	0.6									62.7
Mean	14.5	4.9		1.4	10.2	9.3	4.35	0.0	1013.0					239	1.2 5.2		
Anom	+1.4	+0.8	162%		+0.8	+0.5	85%										
Daily mean		9.7															
Anom		+1.1															

Number of days with:  
 Air frost = 1      Ground frost = 12      Nil sun = 3  
 Snow falling = 0      Snow lying = 0      Thunder = 4  
 Hail=>5mm = 1      Hail<5mm or ice = 2      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.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for APRIL 2004

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	pppww	W1	W2	Nh	Cl	hCr	Cl	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	50	7	14	05	10	11.4	9.6	89	7.5	1005.1	0	001	05	2	2	7	6	3	3	1	83709	87712			1	/Ac62 /Ci78 COTRA	
2	60	8	18	06	12	10.3	8.7	90	7.0	1006.3	1	015	03	2	2	7	5	4	1	/	82715	87618	88465		2		
3	62	6	24	09	16	11.8	8.6	81	7.0	1010.2	3	018	21	6	5	5	8	4	3	8	83815	83640			3	1Ac62 2Cs72 Cu fra Cu hum	
4	82	5	26	11	22	10.2	4.1	66	5.1	1015.3	1	027	03	1	1	1	1	5	0	1	81820	85080			4	COTRA Parhelia	
5	77	8	24	10	18	9.3	5.3	76	5.5	1014.0	6	004	03	1	1	4	8	5	7	7	83822	88272			5	2Sc35 2Ac62	
6	81	1	30	10	20	8.5	2.6	66	4.6	1009.1	8	003	03	0	0	1	8	5	0	9	81825				6	1Sc40 1Cc72 COTRA	
7	78	4	35	08	17	7.5	3.0	73	4.7	1014.1	2	017	03	1	1	4	8	5	0	1	84822				7	1Sc35 1Ci75 Cu med	
8	72	7	35	06	12	7.3	3.8	78	4.9	1020.1	2	006	03	2	2	4	8	5	3	1	82820	83650			8	4Ac60 /Ci75 Cu med	
9	59	6	35	04	09	6.1	3.5	83	4.8	1021.4	1	007	05	1	1	6	5	3	0	0	83708	84630			9		
10	57	7	04	05	11	10.5	9.1	91	7.2	1017.7	1	011	21	6	5	7	5	2	/	/	81705	85707	87650		10		
11	75	8	24	02	03	6.5	2.9	78	4.6	1024.6	2	013	02	2	2	8	5	4	/	/	81718	88645			11	1Sc25	
12	56	7	01	02	04	11.3	7.8	79	6.5	1027.2	1	010	02	2	2	2	5	7	3	/	82656	87360			12		
13	63	7	35	07	14	10.5	6.2	75	5.8	1025.8	1	002	03	2	2	6	8	4	3	/	81816	85645	87357		13	1Cu30 Cu hum, Cu med	
14	60	3	19	05	10	12.0	7.0	72	6.2	1021.9	7	002	05	0	0	0	0	9	0	1	83080				14	COTRA	
15	59	7	15	06	10	11.5	6.4	71	6.0	1015.6	3	002	05	2	2	7	5	7	/	/	87650				15		
16	62	5	15	06	12	15.1	6.8	57	6.1	1011.5	7	002	02	2	2	2	0	9	8	1	82358	84075			16	1Ac68 COTRA	
17	61	7	22	07	15	11.0	7.3	78	6.4	1004.6	7	004	03	2	2	7	8	4	/	/	83815	83630	87656		17		
18	75	7	22	05	11	10.2	9.2	93	7.5	977.9	6	028	02	6	2	6	5	4	3	/	82710	85618	87358		18	Absent vv est	
19	82	2	24	04	09	9.5	5.1	74	5.6	990.9	2	023	03	0	0	1	2	5	3	1	81822				19	1Ac68 2Ci75 COTRA Cu con	
20	75	7	17	06	10	9.9	5.8	76	5.8	1002.9	2	020	03	1	1	2	2	4	5	/	82818	86359			20	1Ac58 Cu med	
21	63	8	20	09	18	12.7	11.8	94	8.7	1005.6	1	007	50	6	5	8	5	3	/	/	81707	87709	88612		21		
22	65	4	24	08	12	11.4	8.1	80	6.7	1016.3	2	017	03	0	0	4	8	4	0	1	83815				22	1Sc25 1Ci78 COTRA Cu hum	
23	86	1	33	03	06	13.5	4.9	56	5.3	1025.9	2	012	02	0	0	0	0	9	0	1	81080				23	COTRA	
24	65	2	23	02	03	15.3	9.1	66	7.1	1027.6	0	005	02	0	0	0	0	9	0	1	82080				24	COTRA	
25	61	7	30	02	03	15.7	9.6	67	7.3	1027.2	1	002	03	2	2	0	0	9	0	2	83072	87080			25	COTRA U/a cont	
26	56	1	02	02	04	15.1	9.3	68	7.2	1022.0	8	004	05	0	0	0	0	9	0	1	81080				26	COTRA	
27	45	8	36	05	10	12.4	9.9	85	7.6	1014.7	0	000	05	2	2	8	6	4	/	/	86710	88712			27		
28	40	7	03	08	20	11.7	10.9	95	8.2	1008.2	5	005	91	9	6	2	9	3	7	/	82708	85557	87364		28	1Cb30 tolo 0809-20	
29	60	8	35	07	16	6.7	5.8	94	5.8	1004.0	8	003	61	6	2	7	5	3	2	/	81709	86712	87618		29	8Ns25	
30	35	8	02	07	13	8.8	8.2	96	6.8	1002.2	4	000	58	6	5	8	7	3	/	/	82706	87708	88710		30		

Mean vis = 17.1 km  
 Mean cloud = 5.8 72%  
 Mean wind speed = 5.9 kn  
 Mean gust = 12 kn  
 Mean TT = 10.8 C  
 Mean TdTd = 7.0 C  
 Mean RH = 78.2%  
 Mean r = 6.3 g/kg  
 Mean PPP = 1013.0 mbar

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for APRIL 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	75	7	13	09	18	15.9	7.3	57	6.4	1004.0	8	010	03	2	2	2	2	6	3	1	82835	87075					1	1Ac65 2Ci70 Cu med Parheliion	
2	83	4	17	08	16	14.5	5.7	56	5.7	1006.6	1	001	02	1	1	3	8	6	3	1	83835						2	1Sc50 1Ac58 2Ci78 COTRA Cu med	
3	73	8	20	15	29	13.1	8.0	71	6.7	1011.5	1	001	02	6	2	7	8	5	1	/	83822	86645	88465				3		
4	82	7	23	12	27	12.9	4.4	56	5.2	1014.1	8	020	15	8	2	2	8	6	3	1	82835	87075					4	1Sc50 2Ac62 jp W	
5	75	7	26	13	26	10.9	4.7	66	5.3	1010.3	8	024	80	8	2	6	8	5	7	/	83825	84645	87360				5		
6	75	6	29	04	19	5.9	4.5	91	5.3	1006.5	6	010	27	8	1	2	9	4	6	3	81815	82925	86070				6	1Sc40 1Ac58 Cu fra jp N&S-W vv60k ex p	
7	84	5	35	08	14	8.6	-0.6	52	3.6	1014.6	5	000	02	2	2	5	8	6	0	0	82835	84650					7	2Sc56 Cu con	
8	80	7	03	08	16	8.3	-1.2	51	3.4	1018.8	6	009	25	8	2	3	8	6	3	1	82835	85357	86075				8	2Sc50	
9	75	2	35	05	09	11.4	0.2	46	3.8	1019.0	8	016	01	1	1	1	1	6	0	1	81845						9	2Ci78	
10	80	8	03	09	16	9.9	4.3	68	5.1	1019.7	1	007	02	2	2	8	8	5	/	/	82822	86630	88640				10		
11	72	7	33	02	04	12.3	4.7	60	5.2	1023.7	8	006	02	2	2	7	8	6	/	/	81832	83640	87650				11		
12	77	7	35	04	09	14.0	4.0	51	5.0	1025.6	7	013	03	2	2	2	8	6	3	/	81840	87357					12	2Sc50 Cu med	
13	73	7	04	02	05	13.3	5.9	61	5.7	1024.4	6	008	02	2	2	7	8	6	/	/	81835	87656					13	2Sc50 Cu med	
14	62	3	20	09	16	15.7	5.5	51	5.6	1018.1	8	022	01	1	1	3	8	6	0	0	82840							14	2Sc50 Cu med
15	61	7	18	10	19	14.4	3.7	49	4.9	1013.8	8	011	02	2	2	7	8	6	/	1	83840	87650					15	/Ci78 COTRA Cu med	
16	80	3	19	08	16	18.3	3.4	37	4.9	1008.4	8	014	02	1	1	3	8	7	0	0	83856							16	1Sc57 Cu med
17	82	3	22	11	21	13.0	2.3	48	4.5	1000.0	7	024	02	1	1	3	1	6	0	0	83840							17	Absent vv&cid est
18	62	8	29	09	16	6.8	5.9	94	6.0	977.4	3	010	61	6	6	8	5	4	/	/	82710	84620	88628				18	Absent vv&cid est	
19	82	5	20	08	17	11.6	2.1	52	4.5	993.3	2	013	15	9	8	1	9	6	6	3	81935	84070					19	1Cu38 1Ac62 jp N-E&W vv 70k ex p	
20	80	8	21	11	18	12.8	5.3	60	5.6	1004.7	1	008	02	2	2	3	8	6	1	7	82835	83468	88272				20	2Sc50 Cu med Halo 22° part	
21	60	8	18	12	28	14.4	10.8	79	8.2	1005.3	8	006	21	6	5	8	5	4	/	/	81715	87625	88635				21	jp W-NW	
22	81	6	28	05	09	14.7	7.7	63	6.5	1018.0	1	009	02	8	2	6	8	6	0	0	83832	85656					22	2Sc40 Cu med	
23	86	4	31	04	09	17.8	1.3	33	4.1	1025.6	7	001	02	0	0	1	1	7	0	1	81856	84080					23	COTRA Cu hum	
24	78	4	08	03	07	20.4	6.6	41	6.0	1026.4	7	008	02	0	0	1	4	7	0	1	81850	84080					24	COTRA Cu hum	
25	65	6	05	05	13	20.6	9.0	47	7.1	1024.9	8	015	02	2	2	2	2	6	3	2	82845	86075					25	1Ac68 COTRA Cu med U/a cont	
26	64	7	08	03	06	19.5	5.3	39	5.5	1017.8	7	020	03	2	2	1	1	7	0	1	81850	87075					26	Cu hum COTRA U/a cont+parhelia	
27	58	7	35	09	16	16.7	9.5	62	7.4	1012.1	7	013	05	2	2	1	1	6	3	1	81830	87075					27	1Ac65 Cu hum Halo 22° Sky turbid	
28	56	8	03	11	18	11.9	10.8	93	8.1	1007.8	6	003	50	5	2	8	7	3	/	/	87708	88712					28		
29	73	8	01	05	12	8.9	8.1	95	6.8	1003.0	6	004	60	6	6	7	8	4	2	/	81712	83818	87630				29	8As58 Cu med	
30	40	8	01	07	13	10.7	10.1	96	7.8	1001.4	7	004	60	6	6	8	7	3	/	/	82708	87711	88715				30		

Mean vis = 25.6 km

Mean cloud = 6.2 77%

Mean wind speed = 7.6 kn

Mean gust = 15 kn

Mean TT = 13.3 C

Mean TdTd = 5.3 C

Mean RH = 60.8 %

Mean r = 5.7 g/kg

Mean PPP = 1011.9 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  
 APRIL 2004

Date	Mean			Min			Max			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	12.2	16.7	14:43	8.9	03:09	78.5	95.0	23:04	54.0	15:06		0	0	213	459	245	523	0	0
02	11.4	15.9	14:21	8.7	23:58	79.2	96.4	02:25	51.7	14:06		0	0	278	393	218	201	350	0
03	10.5	13.5	15:23	7.4	03:01	84.0	95.9	07:47	65.4	09:47		0	0	0	463	509	413	55	0
04	9.0	13.5	14:25	6.5	05:31	78.9	94.1	16:23	52.7	14:28		0	0	146	441	656	197	0	0
05	7.9	11.6	12:39	5.3	23:59	80.8	94.2	16:27	61.3	13:05		0	0	0	543	738	159	0	0
06	5.7	10.0	10:53	3.1	05:58	83.9	96.4	20:21	55.4	10:55		0	0	42	294	649	388	67	0
07	6.3	10.6	13:42	3.3	22:05	78.3	94.7	23:23	46.6	13:39		0	0	303	297	315	525	0	0
08	6.2	11.0	14:32	2.3	03:40	76.1	96.3	04:06	42.4	14:28		0	0	385	299	280	396	80	0
09	7.3	12.6	13:07	0.8	05:26	71.1	97.0	07:27	40.0	15:26		0	1	458	432	45	440	64	0
10	9.1	11.5	14:22	4.8	23:59	85.1	99.4	08:33	64.6	14:25		0	0	0	642	164	86	402	146
11	7.8	12.6	17:34	1.6	04:11	76.3	94.0	05:25	57.4	11:57		0	0	103	713	331	293	0	0
12	10.6	16.5	13:51	4.2	03:57	72.9	93.9	05:41	42.7	13:52		0	0	357	526	225	332	0	0
13	10.6	14.8	16:24	6.1	05:24	72.3	86.8	23:56	53.1	16:27		0	0	166	946	328	0	0	0
14	9.8	16.0	15:07	3.1	05:04	73.1	95.3	06:16	48.5	15:32		0	0	520	307	213	396	4	0
15	10.3	14.9	14:16	5.2	01:38	70.6	95.2	03:40	46.7	14:18		0	0	512	377	292	253	6	0
16	13.2	19.4	14:33	5.9	00:06	57.8	87.7	01:10	33.0	14:15		0	316	456	422	246	0	0	0
17	10.1	14.9	13:47	6.9	23:08	73.4	94.1	22:39	43.9	13:51		0	0	415	346	353	326	0	0
18	7.1	10.3	09:03	4.5	23:59	93.7	98.4	13:14	87.8	00:37		0	0	0	0	99	1113	227	1
19	7.5	13.0	16:09	1.9	05:16	75.5	95.4	02:52	42.2	16:27		0	0	384	381	208	405	62	0
20	8.2	13.9	14:10	0.8	05:20	80.7	95.6	06:30	54.5	14:12		0	0	167	464	99	565	145	0
21	12.0	14.6	15:10	8.1	23:59	89.8	95.3	00:00	76.9	15:06		0	0	0	81	574	773	12	0
22	10.8	16.7	14:22	4.0	04:59	78.4	97.7	04:03	54.0	16:54		0	0	154	626	184	119	357	0
23	12.2	18.7	12:51	3.6	05:02	61.3	92.4	04:26	27.1	16:04		0	353	362	357	199	169	0	0
24	14.2	21.2	16:23	5.7	04:39	64.6	94.1	05:13	39.6	15:09		0	2	739	220	232	247	0	0
25	14.7	21.1	14:54	7.8	05:15	67.7	88.1	05:18	46.0	15:27		0	0	430	708	302	0	0	0
26	14.4	20.6	14:33	6.4	05:11	64.7	95.5	05:23	36.3	15:22		0	170	512	285	146	303	24	0
27	12.9	17.0	14:53	9.5	23:59	82.7	98.0	20:10	60.1	13:27		0	0	0	549	378	203	310	0
28	10.9	12.8	14:15	9.4	00:01	94.2	97.7	02:24	90.3	14:14		0	0	0	0	0	812	628	0
29	8.4	9.6	01:09	6.6	08:24	92.8	98.4	10:55	85.3	06:09		0	0	0	0	263	738	437	2
30	9.5	11.7	16:13	7.9	04:19	94.7	97.8	11:57	90.8	19:42		0	0	0	0	0	739	701	0
Mean	10.0	14.6		5.3		77.8	95.0		55.0			0.00	0.47	3.95	6.43	4.72	6.17	2.18	0.08
Hi	14.7	21.2		9.5		94.7	99.4	Tot	90.8		0	0	842	7102	11571	8491	11114	3931	149
Lo	5.7	9.6		0.8		57.8	86.8		27.1										

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.