

# 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

MAY 2004

Temperature (°C / °F)			Anomaly	Rank			
Mean maximum	18.0	64.4	+1.0	35 <sup>th</sup> highest in 123 years			
Mean minimum	7.9	46.2	+0.9	15 <sup>th</sup> highest in 123 years			
Daily mean	13.0	55.4	+1.0	23 <sup>rd</sup> highest in 123 years			
Highest maximum	23.7	74.7	on 19 <sup>th</sup>	Lowest maximum	11.6	52.9	on 4 <sup>th</sup>
Highest minimum	13.9	57.0	on 29 <sup>th</sup>	Lowest minimum	2.5	36.5	on 22 <sup>nd</sup> & 23 <sup>rd</sup>
Mean grass minimum	4.7	40.5		Lowest grass minimum	-1.8	28.8	on 22 <sup>nd</sup>
Mean earth @30 cm	14.0	57.2	+0.9	Earth @100 cm	12.1	53.8	+0.8
Frost duration (hrs)	0.0			Rain duration (hrs)	32.3		
Rainfall total (mm / in)	49.2	1.94	98 %	51 <sup>st</sup> highest in 123 years			
Highest daily fall	14.7	0.58	on 3 <sup>rd</sup>				
Number of: Dry days (<0.2mm)	18	Wet days (>0.9mm)	9	days ≥5mm	3		
Sunshine total (hrs) 177.1	Daily mean	5.71		Sunniest day	13.7	on 19 <sup>th</sup>	
N° days with: Air frost 0	Ground frost	3	Snow falling	0	Snow lying	0	
Thunder 1	Hail ≥5mm	1	Small hail/ice	1	Fog @09	0	Nil sun 2
Air pressure MSL : Mean @09 GMT (mbar/in)	1017.0	+1.1	30.03				
Absolute highest	1031.4		30.46			on 16 <sup>th</sup>	
Absolute lowest	977.4		28.86			on 5 <sup>th</sup>	

Anomaly = departure from 1971 to 2000 average.

Notes:

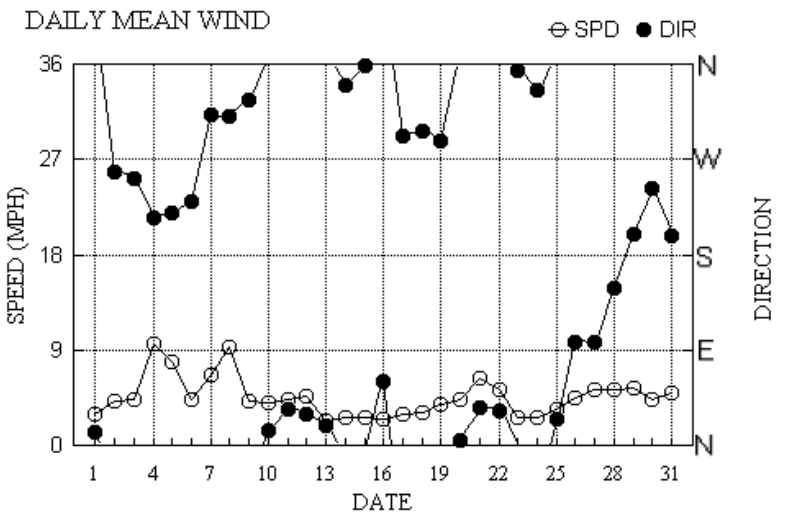
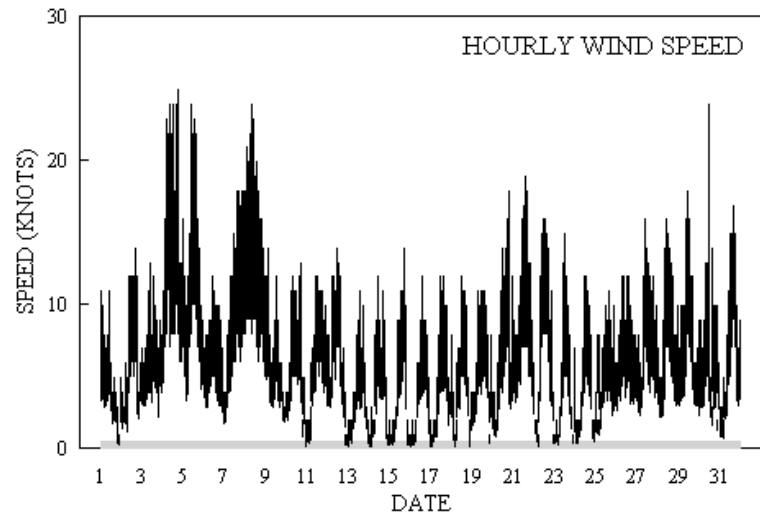
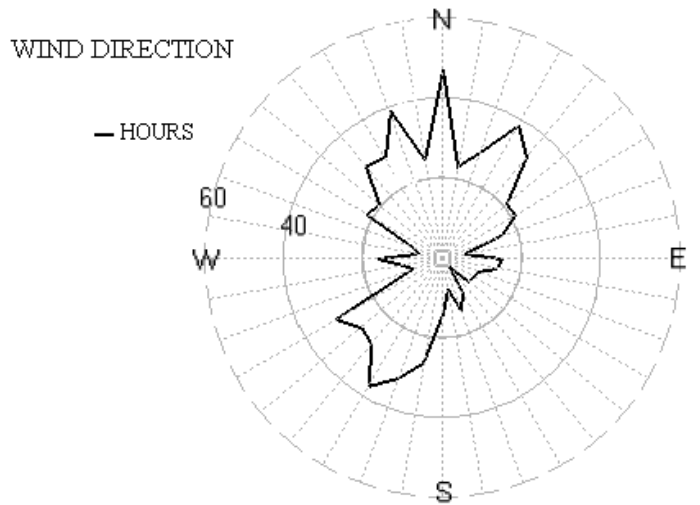
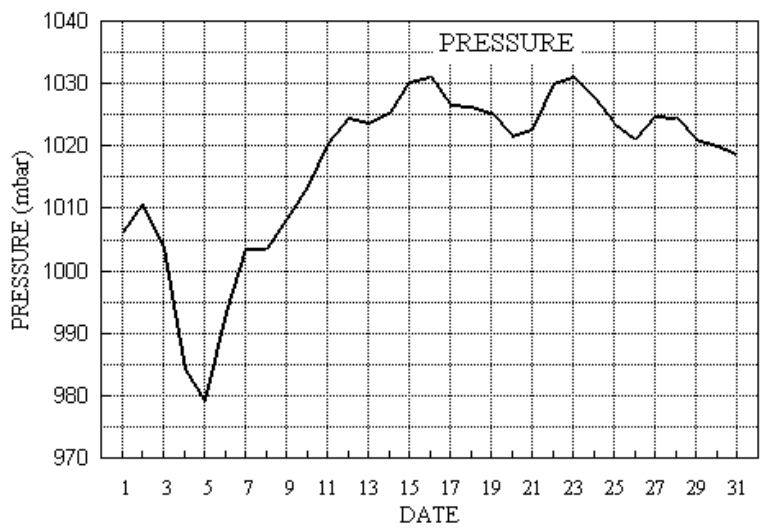
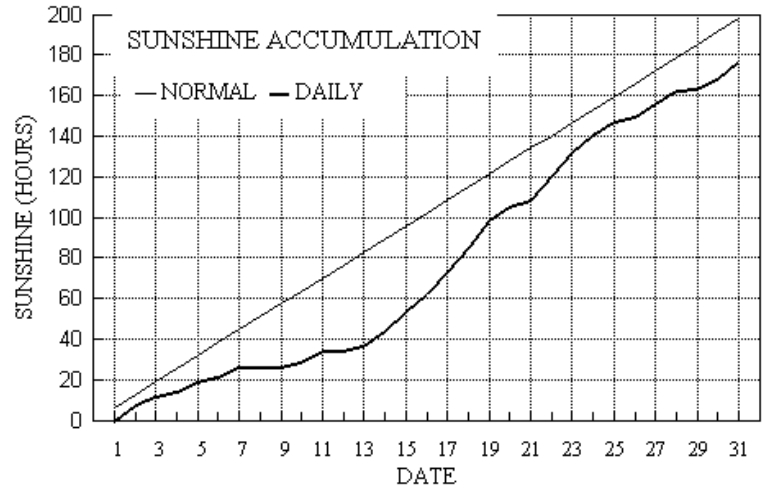
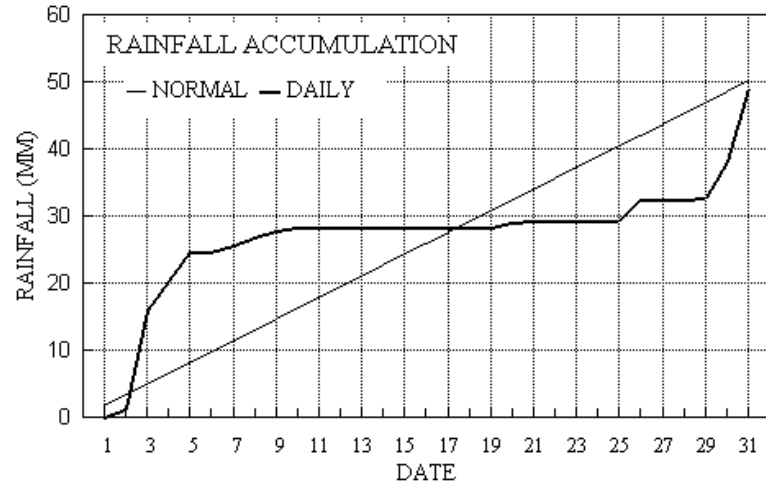
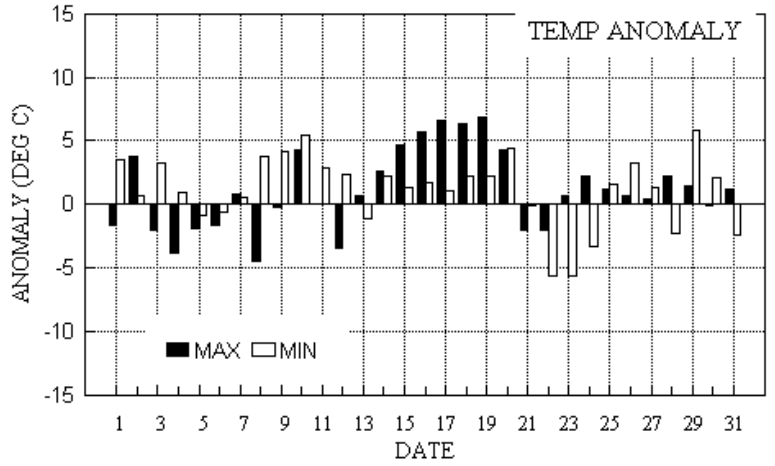
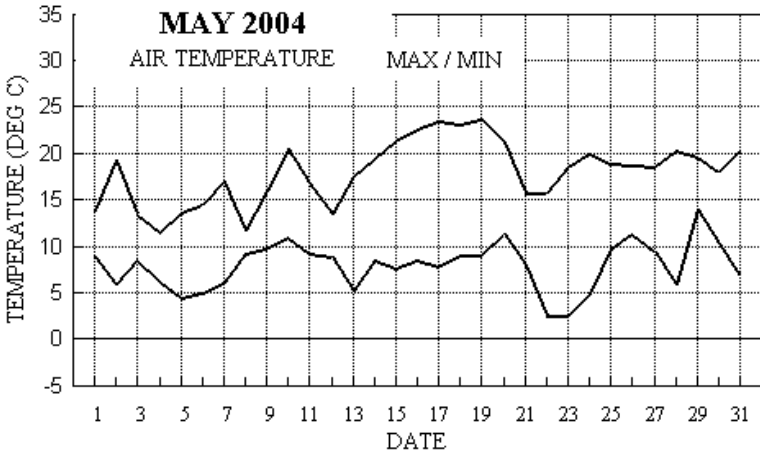
**Mild with Above Normal Rainfall and Below Normal Sunshine.**

**Temperature.** The overall mean of 13.0° is similar, within 0.2°, to the values for the past 3 years, but is 0.4° below that of 2000. The mean maximum is highest since 2001, and is 1.1° above the long-term median, but 2.4° below the record set in 1989. The mean minimum is 1.3° above the median and 1.2° below the record set in 1999. The highest maximum, 23.7°, is lowest for May since 1994, and is 1.3° below the median. In contrast, 4 Mays in the past 101 years have seen temperatures of 30° or more, but none since 1953. The lowest minimum, 2.5°, is 2.0° above the median and is highest since 2000. In 1935 and 1938 the temperature fell to -3.2° in May, but the last May to have an air frost was in 1997. The lowest maximum is 0.7° above the median, and the highest minimum is 1.5° above its median. Ground frost has occurred every May in the past 25 years, and this year is no exception with one on 3 nights. **Rainfall.** This month's total is close to the current 30 year climatological average. However it is 12 % above the long-term median, but nevertheless within the normal category. 52 % of the month's total fell on just 2 days, the 3<sup>rd</sup> and 31<sup>st</sup>, and mid-month was quite dry with only 0.8 mm between the 11<sup>th</sup> and 25<sup>th</sup>, with a 9 day dry spell ending on the 19<sup>th</sup> and another of 5 days ending on the 25<sup>th</sup>. A thunderstorm occurred on the 4<sup>th</sup>, and hail 6 mm diameter fell on the 5<sup>th</sup>. A heavy rain shower on the 30<sup>th</sup> produced a rainfall rate of 65 mm/hr. **Sunshine.** Not a sunny May, well below the median and almost in the dull category, with fewest sunshine hours since 1996. The 19<sup>th</sup> was the sunniest day but had only 87 % of the maximum possible. Overall there were 10 days with <3 hours, 15 with =>6 hours, 9 with =>9 hours and 3 with =>12 hours. **Wind.** The mean speed this month is exceptionally low at 4.5 mph, 2.1 mph below average, and lowest for May since before 1988. The month's windiest day, the 4<sup>th</sup> with 9.6 mph, and the highest gust, 29 mph on the 4<sup>th</sup>, are also both lowest for May since before 1988. The 13<sup>th</sup> was the least windy day, 2.4 mph, and there were 56 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,7 NE,6 E,2 SE,1 S,2 SW,4 W,3 NW,6. **Pressure.** The month's lowest pressure, 977.4 mbar, is lowest for May since before 1976, and probably before 1949. **Humidity.** The overall mean relative humidity was 75.7 %, and the lowest value recorded was 30 % on the 22<sup>nd</sup>. The mean amount of water vapour per kilogram of air was 7.3 g at 0900 GMT and 7.0 g at 1500 GMT. **Commentary.** From the 1<sup>st</sup> to the 10<sup>th</sup>: temperatures were variable, with anomalies for daily maxima ranging from +4.3° on the 10<sup>th</sup> to -4.5° on the 8<sup>th</sup>, and for minima, +5.4° on the 10<sup>th</sup> to -0.9° on the 5<sup>th</sup>, the resulting 10 day mean anomalies being -0.7° and +2.1° for max and min resp. This was the wettest period in the month, with 175 % of normal rainfall, and just 2 dry days, the 1<sup>st</sup> and 6<sup>th</sup>. Sunshine was poor, with a 10 day mean just 45 % of normal. Light or moderate winds were N'ly on 1<sup>st</sup>, backing SW'ly by 4<sup>th</sup>, veering NW'ly on 7<sup>th</sup>, and to N'ly by 10<sup>th</sup>. From the 11<sup>th</sup> to 20<sup>th</sup>: we enjoyed a fine warm spell, with anomalies for daily maximum +6.8° on the 19<sup>th</sup>, the month's hottest day, and 10 day mean anomalies of +3.4° and +1.9° for max and min resp. Almost completely dry, just a little rain on the 20<sup>th</sup> amounting to 4 % of the 10 day normal. It was sunny from the 15<sup>th</sup> to 19<sup>th</sup> with the 10 day mean 119 % of normal. Generally light winds were mainly N'ly, but were W'ly between the 17<sup>th</sup> and 19<sup>th</sup>. From the 21<sup>st</sup> to the 31<sup>st</sup>: daily maxima were mostly near normal, but anomalies for minima were -5.6° on the 22<sup>nd</sup> and 23<sup>rd</sup>, the month's coldest nights, but reached +5.8° on the 29<sup>th</sup>. The 11 day mean anomalies were +0.5° and -0.5° for max and min resp. Mostly dry until the 30<sup>th</sup>, but rain on the final two days lifted the 11 day total to 113 % of normal. Rather variable sunshine gave a mean close to normal. Light or moderate winds were N'ly until 25<sup>th</sup>, then veered to SW'ly by the 30<sup>th</sup>.

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

# Wokingham Climatological Data



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: MAY 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	13.8	8.8	tr	8.8	11.4	10.8	0.0	0.0	1006.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	13 1.8 2.5	40 11 0953	10 5 09	0.0
2	19.2	5.9	1.2	3.7	11.4	10.9	8.0	0.0	1010.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	259 3.2 3.6	290 14 1648	280 6 16	1.3
3	13.5	8.6	14.7	3.9	12.3	10.8	3.7	0.0	1003.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	252 2.4 3.8	10 13 1016	330 5 14	8.0
4	11.6	6.2	4.2	2.9	12.0	10.9	2.3	0.0	984.2	0 0 0 0	1 0 1 0	0 0 0 0	0 0 0 0	215 8.1 8.3	250 25 1717	210 11 08	3.0
5	13.6	4.4	4.5	-0.3	11.6	11.0	5.0	0.0	979.3	0 1 0 0	0 1 0 0	0 0 0 0	0 0 0 0	219 6.5 6.8	230 24 1016	240 11 13	1.5
6	14.6	5.0	0.0	0.3	11.7	11.0	2.7	0.0	993.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	230 3.4 3.8	220 12 1031	240 6 12	0.0
7	17.0	6.1	1.0	1.1	11.9	11.0	4.3	0.0	1003.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	313 5.5 5.7	320 18 2248	310 9 15	2.3
8	11.7	9.3	1.3	8.5	12.3	11.1	0.0	0.0	1003.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	311 7.9 8.0	310 24 0748	300 10 01	3.5
9	15.9	9.7	0.8	9.9	12.0	11.1	0.3	0.0	1008.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	326 2.8 3.6	300 14 0309	50 6 13	1.0
10	20.5	11.0	0.7	10.1	12.5	11.2	2.5	0.0	1013.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	14 3.0 3.4	50 13 1652	20 6 10	0.2
11	16.8	9.2	0.0	5.2	13.1	11.3	5.3	0.0	1020.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	34 3.7 3.8	30 12 1145	40 7 11	0.0
12	13.4	8.8	0.0	8.0	13.7	11.4	0.1	0.0	1024.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	29 3.9 4.1	30 14 1110	30 7 11	0.0
13	17.5	5.2	0.0	1.0	13.2	11.5	2.7	0.0	1023.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	19 1.6 2.1	360 11 1436	350 5 17	0.0
14	19.4	8.6	0.0	4.1	13.7	11.6	6.9	0.0	1025.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	341 1.9 2.3	360 12 1026	350 6 10	0.0
15	21.4	7.7	0.0	3.9	14.1	11.8	9.7	0.0	1030.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	359 1.9 2.3	360 14 1605	20 6 17	0.0
16	22.6	8.6	0.0	4.4	14.5	12.0	9.5	0.0	1031.1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	61 1.6 2.2	40 12 1422	40 4 14	0.0
17	23.5	7.9	0.0	3.5	15.0	12.1	9.9	0.0	1026.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	293 1.9 2.6	280 12 1553	320 5 17	0.0
18	23.2	9.1	0.0	4.5	15.3	12.3	12.3	0.0	1026.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	297 1.3 2.6	260 12 1227	290 6 15	0.0
19	23.7	9.1	0.0	5.0	15.6	12.5	13.7	0.0	1025.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	288 2.2 3.3	260 11 0726	260 6 07	0.0
20	21.2	11.3	0.7	7.2	16.0	12.7	6.1	0.0	1021.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	5 3.5 3.7	360 18 1805	360 8 14	0.4
21	15.8	8.0	0.1	6.0	15.9	12.9	3.3	0.0	1022.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	35 4.9 5.4	60 19 1359	60 8 14	0.1
22	15.8	2.5	0.0	-1.8	15.1	13.1	12.4	0.0	1030.0	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	32 4.4 4.5	30 16 1255	30 8 10	0.0
23	18.5	2.5	0.0	-1.7	14.8	13.2	11.0	0.0	1031.1	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	354 2.0 2.3	350 15 1156	340 6 12	0.0
24	20.0	4.8	0.0	0.7	15.0	13.2	9.4	0.0	1027.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	336 2.0 2.3	320 12 1224	340 5 13	0.0
25	19.0	9.7	0.0	5.1	15.3	13.2	6.2	0.0	1023.7	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	25 2.7 3.0	340 11 1402	20 4 14	0.0
26	18.8	11.3	3.2	9.6	15.5	13.3	2.6	0.0	1021.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	97 3.6 4.0	120 12 1202	90 6 09	1.1
27	18.6	9.4	0.0	9.0	15.6	13.4	6.4	0.0	1024.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	98 4.4 4.5	90 16 0945	90 7 09	0.0
28	20.4	5.8	0.1	1.4	15.6	13.5	6.6	0.0	1024.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	148 4.1 4.6	170 16 1038	160 7 09	0.4
29	19.6	13.9	0.2	11.7	16.0	13.6	0.2	0.0	1021.1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	200 3.8 4.7	200 18 1051	200 9 11	0.1
30	18.1	10.2	5.4	6.3	15.9	13.7	5.0	0.0	1020.1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	243 3.2 3.7	240 24 1212	260 7 08	0.8
31	20.4	6.7	11.1	2.7	15.7	13.8	9.0	0.0	1018.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	198 4.1 4.3	200 17 1539	200 10 16	8.6
Total			49.2				177.1	0.0		0 3 0 0	1 1 1 0						32.3
Mean	18.0	7.9		4.7	14.0	12.1	5.71	0.0	1017.0					319 0.8 3.9			
Anom	+1.0	+0.9	98%		+0.9	+0.8	90%			+1.1							
Daily mean		13.0															
Anom		+1.0															
Number of days with:																	
Air frost = 0				Ground frost = 3			Nil sun = 2										
Snow falling = 0				Snow lying = 0			Thunder = 1										
Hail=>5mm = 1				Hail<5mm or ice = 1			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 MAY 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	37	8	01	04	07	10.1	8.9	92	7.2	1006.2	3	011	21	6	2	8	7	3	/	/	87707	88710				1		
2	62	6	27	05	07	13.8	9.3	74	7.3	1010.6	0	005	03	4	2	1	1	5	8	1	81820	84072				2	2Ac59 1Ac66 3Ci80 COTRA Cu hum Halo 22° part	
3	25	8	23	05	11	10.5	9.9	96	7.7	1003.6	7	005	58	6	5	7	5	3	2	/	82708	84615	87625			3	8Ns40	
4	30	8	22	09	25	9.0	8.4	96	7.1	984.2	6	058	65	6	6	7	7	3	2	/	82706	87708	88515			4	CF 0840	
5	75	7	21	07	15	9.3	6.0	80	6.0	979.3	1	008	80	8	1	7	8	4	/	/	83818	87635				5		
6	78	7	24	06	09	10.6	7.3	80	6.5	993.4	1	024	03	2	2	7	8	4	/	/	82815	87645				6	Cu med	
7	81	7	32	04	11	11.5	6.7	72	6.2	1003.5	1	009	03	2	2	6	8	5	3	1	81820	85645	85072			7	1Sc40 1Ac58 COTRA Cu hum	
8	61	8	32	11	19	9.7	8.5	92	7.0	1003.5	1	007	61	6	6	7	5	4	2	/	81710	87612	88550			8		
9	23	8	36	03	07	11.0	10.6	97	8.0	1008.2	2	015	58	6	5	8	7	1	/	/	82702	87703	88705			9		
10	59	7	01	06	11	14.5	11.3	81	8.4	1013.4	2	008	05	2	2	7	5	4	/	/	85612	87618				10		
11	59	5	04	03	08	14.4	11.2	81	8.3	1020.4	2	013	05	1	1	2	6	4	8	0	82712	84363				11	1Ac62	
12	61	8	02	07	11	10.4	7.7	83	6.5	1024.5	0	001	02	2	2	8	5	4	/	/	86710	88613				12		
13	68	7	09	02	03	12.8	7.3	69	6.3	1023.8	4	000	02	2	2	2	5	5	0	1	82625	87075				13	COTRA U/a cont	
14	60	4	29	03	07	16.0	9.7	66	7.4	1025.2	1	008	05	1	1	4	8	5	0	0	81824	84645				14	Cu med	
15	82	6	04	03	04	15.9	11.5	75	8.3	1030.3	0	007	03	1	1	1	5	7	0	1	81650	86075				15	COTRA	
16	68	2	11	02	04	17.7	12.1	70	8.7	1031.1	0	004	01	1	1	1	8	5	0	1	81825					16	1Sc50 2Ci80 COTRA Cu med	
17	65	2	24	03	05	19.2	11.8	62	8.6	1026.6	8	003	01	1	1	2	5	7	0	0	82650					17		
18	62	6	12	03	07	17.7	11.9	69	8.6	1026.4	1	004	02	1	1	0	0	9	0	1	86080					18	COTRA	
19	62	0	25	04	09	18.0	11.5	66	8.3	1025.2	1	002	02	0	0	0	0	9	0	0						19		
20	80	4	05	04	08	19.4	11.7	61	8.5	1021.6	7	002	03	0	0	3	8	5	0	1	82825					20	2Sc45 2Ci80 COTRA Cu med	
21	82	7	07	06	12	12.6	8.4	76	6.8	1022.6	2	016	03	2	2	6	8	5	3	/	83820	84645				21	2Ac58 Cu med	
22	86	3	03	07	13	11.6	2.7	54	4.5	1030.0	0	003	03	0	0	1	1	6	0	1	81830	83080				22	COTRA Cu hum	
23	84	2	36	03	06	14.0	4.2	52	5.1	1031.1	1	003	03	0	0	0	0	9	0	1	82078					23		
24	83	1	33	03	05	15.8	7.2	56	6.2	1027.6	0	001	03	0	0	1	0	8	8	0	81357					24		
25	67	4	03	03	07	15.5	8.9	65	7.0	1023.7	8	006	02	1	1	4	5	7	0	0	84656					25		
26	80	5	09	05	11	15.1	8.9	66	7.0	1021.2	1	007	03	2	2	1	8	5	3	0	81828	85357				26	1Sc35 Cu hum	
27	64	7	09	06	13	12.7	9.6	81	7.4	1024.8	1	011	03	2	2	7	8	4	3	/	85815	85650				27	/Ac58 Cu hum	
28	68	7	15	08	14	16.1	8.0	59	6.6	1024.5	8	001	02	2	2	1	0	9	8	1	81358	87078				28	COTRA U/a cont	
29	61	7	18	05	12	17.4	13.2	76	9.4	1021.1	0	002	01	6	2	3	8	4	7	2	82818	83362	85365			29	2Sc50 /Ci75 COTRA	
30	70	7	25	07	12	16.0	11.6	75	8.5	1020.1	3	004	03	2	2	3	8	5	0	1	83820	86075				30	1Sc35 Cu med Halo 22°	
31	81	3	20	04	08	16.7	10.8	68	8.0	1018.8	8	005	03	0	0	1	2	5	3	1	81825	83075				31	1Ac67 COTRA Cu med	

Mean vis = 20.9 km  
 Mean cloud = 5.5 69%  
 Mean wind speed = 4.9 kn  
 Mean gust = 10 kn  
 Mean TT = 14.0 C  
 Mean TdTd = 9.3 C  
 Mean RH = 73.9 %  
 Mean r = 7.3 g/kg  
 Mean PPP = 1017.0 mbar

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for MAY 2004

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	Nhshs	NChshs	NChshs	Date	Remarks
1	50	8	16	02	04	12.5	10.4	87	7.9	1007.2	1	006	05	2	2	8	6	4	/	/	88710			1	
2	80	4	26	05	10	18.5	7.8	50	6.6	1008.3	8	011	02	1	1	2	8	6	0	1	82845	83075		2	1Sc56 Cu med
3	80	6	32	04	12	10.9	7.1	78	6.4	1003.5	8	003	15	6	1	6	8	5	0	0	82825	85656		3	
4	70	5	24	08	18	9.8	8.4	91	7.1	978.9	6	022	27	9	8	2	9	5	6	3	81816	82922	85070	4	1Sc40 1Ac60 jp E vv 70k ex p
5	65	7	23	10	20	10.4	7.0	80	6.4	982.2	3	019	80	8	2	4	9	5	6	3	82925	83070		5	2Cu30 1Sc45 1Ac62
6	84	7	22	06	10	14.4	6.1	57	6.0	996.3	1	014	02	2	2	7	8	6	/	/	82835	87650		6	Cu med
7	84	8	31	08	17	16.5	4.7	46	5.4	1003.1	8	001	03	2	2	2	2	6	6	7	82840	88275		7	1Ac57 1Ac68 Cu med Halo 22° part
8	65	8	32	07	14	11.2	10.1	93	7.8	1004.4	3	005	21	6	5	8	5	4	/	/	87610	87615		8	
9	68	8	04	04	09	14.3	10.7	79	8.1	1009.4	2	009	03	2	2	8	8	4	/	/	81818	88635		9	2Sc30 Cu hum
10	65	3	01	04	10	19.0	11.4	61	8.4	1013.5	8	001	03	1	1	3	8	6	0	1	83832			10	1Sc50 1Ci80 COTRA Cu med
11	58	7	01	05	10	16.4	10.6	69	7.9	1021.4	0	000	05	1	1	7	5	5	/	/	87620			11	
12	61	7	03	05	12	12.9	7.8	71	6.5	1023.9	8	004	01	2	2	7	8	5	/	/	83822	87630		12	Cu hum
13	63	7	33	03	11	16.7	8.3	58	6.8	1022.5	8	004	02	2	2	6	8	6	3	1	82835	85645	86075	13	2Ac65
14	68	7	33	04	07	18.2	9.1	55	7.1	1025.3	6	001	02	2	2	7	8	6	0	1	82840	86650	85075	14	COTRA Cu med
15	82	4	01	05	11	20.2	11.2	56	8.1	1029.6	8	006	02	1	1	2	8	6	0	1	82840	83080		15	1Sc50 COTRA
16	72	2	04	05	12	21.7	9.0	44	7.1	1028.8	8	012	01	1	1	2	4	7	0	0	82650			16	
17	72	3	34	06	10	22.6	12.3	52	8.8	1024.4	7	011	02	1	1	3	4	6	0	0	82845			17	2Sc50 Cu hum
18	64	3	26	06	11	21.6	11.7	53	8.5	1024.6	6	007	03	0	0	3	2	6	0	0	83845			18	Cu med
19	73	1	31	05	11	22.6	11.9	51	8.6	1023.4	7	008	03	0	0	1	1	6	0	0	81845			19	Cu hum
20	70	7	01	07	14	17.9	11.5	66	8.4	1019.5	6	010	03	1	1	2	8	6	7	/	81840	87357		20	2Sc56 Cu med
21	84	5	07	08	15	15.0	5.1	51	5.4	1023.0	0	002	15	8	2	4	8	6	6	1	81835	83650		21	2Cu40 2Ac58 1Ci75 Cu con jp W-NW
22	83	3	36	07	15	15.5	-0.3	34	3.6	1029.3	7	003	02	0	0	3	4	7	0	0	83850			22	1Sc56 Cu hum
23	82	6	32	04	12	17.4	3.2	39	4.7	1028.7	8	012	02	1	1	3	4	7	0	1	81850	83656	85078	23	COTRA Cu hum
24	75	5	32	04	11	17.8	4.7	42	5.2	1025.9	7	007	02	2	2	5	4	7	0	0	81850	85656		24	
25	81	7	03	04	11	18.1	7.3	49	6.3	1021.4	7	013	02	2	2	2	8	6	3	/	81845	87357		25	2Sc56 Cu med
26	75	7	08	06	12	17.6	9.2	58	7.2	1020.4	6	005	15	2	2	3	8	6	3	/	82835	85358		26	2Sc50 Cu med jp SW
27	70	6	10	04	09	17.0	8.0	55	6.6	1024.7	4	000	03	1	1	6	8	6	/	/	83840	85645		27	Cu med
28	75	7	17	06	14	19.7	6.4	42	5.9	1023.6	6	005	02	2	2	1	0	9	3	8	81365	87275		28	COTRA U/a cont
29	80	8	22	05	11	16.2	13.9	86	9.9	1020.4	6	002	80	8	2	8	8	5	/	/	81825	87630	88640	29	
30	70	7	08	02	14	12.7	11.8	94	8.6	1019.7	2	003	25	8	2	6	9	5	7	/	81820	83930	85640	30	/Ac58 jp N-E vv 50k ex p
31	84	6	21	09	15	20.2	8.2	46	6.7	1016.6	7	011	02	1	1	2	2	6	3	8	82845	85275		31	2Ac65 COTRA Cu med Halo 22+parhelion+parhelic circ pa

Mean vis = 20.9 km  
 Mean cloud = 5.5 69%  
 Mean wind speed = 4.9 kn  
 Mean gust = 10 kn  
 Mean TT = 14.0 C  
 Mean TdTd = 9.3 C  
 Mean RH = 73.9 %  
 Mean r = 7.3 g/kg  
 Mean PPP = 1017.0 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  
 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  
 MAY 2004

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	13.0	17:51	9.1	04:21	92.6	97.5	23:59	85.7	14:35		0	0	0	0	402	707	331	0
02	12.8	19.3	15:45	6.1	05:30	75.5	100.0	06:23	45.8	16:03		0	0	492	388	2	2	60	496
03	10.1	13.6	16:55	7.3	23:59	86.2	99.0	10:18	61.5	17:15		0	0	0	371	353	305	360	51
04	8.1	11.4	15:29	6.4	13:27	90.3	97.8	13:40	75.3	16:59		0	0	0	67	572	642	159	0
05	8.6	13.6	13:35	4.8	05:09	85.4	96.5	05:38	58.8	13:37		0	0	6	363	458	521	92	0
06	10.0	14.6	14:57	5.7	04:04	78.3	97.4	05:24	54.3	16:44		0	0	191	562	190	318	179	0
07	11.7	17.0	15:06	6.3	04:38	68.9	94.3	02:40	45.4	15:15		0	0	572	419	138	311	0	0
08	10.7	11.8	16:35	9.2	07:58	87.1	95.5	14:06	70.0	00:33		0	0	0	339	469	625	7	0
09	12.7	15.9	12:36	10.2	04:42	87.4	98.1	09:11	68.6	12:44		0	0	0	371	458	274	335	2
10	15.0	20.5	15:52	11.2	23:58	82.7	96.1	03:12	55.2	16:01		0	0	106	387	370	377	200	0
11	13.3	16.9	15:43	10.0	03:49	82.8	97.9	06:17	66.1	15:59		0	0	0	596	374	80	390	0
12	10.7	13.4	15:03	6.8	23:58	82.6	95.7	23:31	69.5	15:04		0	0	0	513	750	153	24	0
13	12.6	17.5	15:05	6.4	00:36	76.0	97.1	02:14	52.7	14:14		0	0	187	676	235	169	173	0
14	14.7	19.4	15:08	9.5	01:54	75.1	95.0	04:55	50.9	14:33		0	0	343	438	284	375	0	0
15	15.2	21.4	11:14	8.8	05:04	73.2	96.9	05:14	45.8	15:38		0	0	533	294	159	255	199	0
16	16.3	22.7	15:13	10.1	05:07	68.9	94.7	05:49	39.3	15:00		0	3	603	259	184	391	0	0
17	17.2	23.5	12:48	8.8	04:51	69.3	95.2	05:00	48.0	16:20		0	0	620	331	165	316	8	0
18	17.0	23.2	13:29	10.5	04:25	70.2	93.4	04:38	47.3	12:36		0	0	541	362	356	181	0	0
19	17.5	23.8	14:16	10.2	03:52	69.4	93.7	04:03	43.1	12:36		0	0	528	438	237	237	0	0
20	15.8	21.2	11:13	11.2	23:55	76.7	97.5	21:28	49.3	11:19		0	0	229	438	533	139	101	0
21	11.1	15.8	13:37	6.3	23:48	73.7	90.7	05:35	43.6	13:40		0	0	262	577	568	33	0	0
22	10.1	15.8	15:11	3.6	04:22	64.2	92.2	03:44	30.3	16:09		0	248	443	231	301	217	0	0
23	12.2	18.5	14:30	3.8	04:14	64.2	93.6	04:27	36.3	14:32		0	122	596	210	338	174	0	0
24	14.1	20.0	13:05	5.9	04:04	63.7	94.2	04:28	38.7	13:08		0	33	691	309	170	237	0	0
25	15.1	19.0	11:23	10.3	04:50	63.5	82.6	23:59	44.7	16:07		0	0	574	818	48	0	0	0
26	14.0	18.8	12:16	10.9	23:59	75.8	96.5	21:22	48.1	12:13		0	0	393	287	367	213	180	0
27	13.3	18.6	15:24	9.6	23:56	70.8	92.5	05:44	49.4	15:34		0	0	479	444	362	155	0	0
28	14.6	20.4	15:57	6.4	04:07	60.6	93.7	04:37	38.1	15:59		0	45	866	171	208	150	0	0
29	15.6	19.6	12:01	13.5	23:44	75.1	89.7	22:24	60.1	00:02		0	0	0	958	482	0	0	0
30	13.8	18.1	11:43	10.5	05:09	82.3	95.9	04:42	61.1	10:59		0	0	0	584	483	215	158	0
31	14.2	20.4	14:52	7.6	04:13	75.3	97.2	23:53	43.8	15:09		0	0	426	316	137	337	224	0
Mean	13.2	18.0		8.3		75.7	95.1		52.5			0.00	0.24	5.20	6.73	5.46	4.36	1.71	0.30
Hi	17.5	23.8		13.5		92.6	100.0		85.7	Tot	0	0	451	9681	12517	10153	8109	3180	549
Lo	8.1	11.4		3.6		60.6	82.6		30.3										

Note. Aspirated Psychrometer exposed near house. Winds with a component from 030 deg can produce a distorted diurnal temperature profile. This is compensated for in post processing, and maxima are constrained to be within 0.2C of screen values.

Minima on radiation nights can also be about 1C higher than screen values, due partly to topography. No compensation for this is applied.

Humidity readings are similar to screen derived values under most conditions and in most instances can be considered more accurate due to controlled aspiration. The psychrometer is of experimental design, and logs one minute average values of temp and RH.

# WOKINGHAM METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

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

## Seasonal Means and Totals

## SPRING 2004

Temperature (°C)				Rank					
Mean maximum	14.4	(+0.8)	26 <sup>th</sup> highest in 123 years						
Mean minimum	5.2	(+0.5)	13 <sup>th</sup> highest in 123 years						
Daily mean	9.8	(+0.7)	21 <sup>st</sup> highest in 123 years						
Rainfall total (mm)	170.0	(116 %)	29 <sup>th</sup> highest in 123 years						
Sunshine total (hours)	404.1								
N <sup>o</sup> of:	Dry days	47 (-4)	Wet days	35 (+7)					
Days with: Air frost	8 (-3)	Ground frost	32 (-6)	Snow falling	4 (0)	Snow lying	1 (0)		
Thunder	5 (0)	Hail ≥5mm	4	Small hail/ice	8	Fog @09 GMT	1 (-1)	Nil sun	9
Air pressure MSL : Mean @09 GMT (mbar)	1016.9			(+1.3)					

Departure from 1971 to 2000 average shown in brackets.

Notes: **Mild.** **Wet.** **Dull.**

**Temperature.** This is the coolest spring since 2001, but the mean temperature is 1.0° above the long-term median. The mean maximum, 14.4°, is also 1.0° above the median, but is 3.2° below the record breaking spring of 1893, which is also remarkable as being the driest on record, although with the dry summer that followed it led to crop failure and serious food shortages. Back to the present spring, the highest temperature recorded was 23.7° on the 19<sup>th</sup> May. This is 1.5° below the median and is lowest since 1994. The lowest temperature was -6.2° on the 1<sup>st</sup> March, 2.0° below the median and equal lowest with 2001 since 1986. The lowest maximum, 5.6° in the 10<sup>th</sup> March, is 1.2° above the median while the highest minimum, 13.9° on the 29<sup>th</sup> May, is 1.4° above the median. The mean grass minimum, 1.8°, is 0.3° above average, while the lowest grass minimum, -10.6° on the 1<sup>st</sup> March, is 0.8° below average. Earth mean temperatures at both 30 cm and 1 metre depth, 10.2° and 9.5° resp., are both close to average. **Rainfall.** This spring' s total of 170.0 mm is well into the wet category, and is 32.5 mm above the long-term median. Although the spring in both 2000 and 2001 were wetter than this, all the spring seasons between 1987 and 1999 were drier. The season' s wettest day was the 1<sup>st</sup> of April, when 16.6 mm fell. April was the wettest month with 79.4 mm, 162 % of average, and March the driest, 41.4 mm, 88 % of average. The number of dry days is 4 fewer than average. There were, however, dry spells in each of the months, 7 days ending on 2<sup>nd</sup> March, 5 days ending on 31<sup>st</sup> March, 7 days ending on 16<sup>th</sup> April, 5 days ending on 26<sup>th</sup> April, 9 days ending on 19<sup>th</sup> May and 5 days ending on 25<sup>th</sup> May. The total duration of measurable rain was 125.0 hours, 5 fewer than the average for the past 11 years. The number of days with thunder is about average, but there were 2 more days than average with large hail, and 4 more than average with small hail/ice meteors (snow pellets, ice pellets, graupel), while the combined total of 12 days hail ranks 2<sup>nd</sup> highest after 1986 (14) in the past 98 years. Snow fell on 4 days, all in March, and there was 60% cover with 2 cm depth of lying snow at 0900 GMT on the 12<sup>th</sup> March. **Sunshine.** The daily mean sunshine of 4.39 hours is well below the spring average, and puts this season into the dull category. May was the sunniest month with a mean of 5.71 hours, while March with 3.11 hours was the duller. The 19<sup>th</sup> of May together with the 23<sup>rd</sup> April were joint sunniest days with 13.7 hours, the latter being a new April record. Overall there were 40 days with <3 hours, 30 with =>6 hours, 17 with =>9 hours and 5 with =>12 hours. **Wind.** The overall mean wind speed this spring was 5.9 mph, 1.4 mph below average, and lowest since before 1988. The season' s highest gust was 54 mph on the 20<sup>th</sup> March, and that was also the windiest day with a mean speed of 17.3 mph. The 11<sup>th</sup> of April was the least windy day, mean 1.5 mph, and there were 139 hours with a mean speed of 0.5 mph or less, 50 more than average. Daily mean direction/number of days: N,20 NE,13 E,7 SE,3 S,14 SW,20 W,5 NW,10. **Pressure.** The air pressure fell to a minimum of 976.7 mbar on the 18<sup>th</sup> of April, the lowest spring value since 1994. **Humidity.** The overall mean relative humidity was 78.0 %, and the lowest recorded value was 27 % on the 23<sup>rd</sup> April. The mean amount of water vapour per kilogram of air was 6.3 g at 0900 GMT and 5.9 g at 1500 GMT. **March.** Temperature above normal, rainfall near normal, sunshine below normal. Earth temperature at 30 cm depth lowest since 1996. Snow fell on 4 days and lay 2 cm deep on the 12<sup>th</sup>. Hailstones of 7 mm dia. fell on 23<sup>rd</sup>. Wind gust of 54 mph on 20<sup>th</sup> highest for March since 1995. **April.** Mild, very wet, dull. The lowest minimum highest since 1987. Most thunder since 1998. Hailstones 6 mm dia. fell on 6<sup>th</sup>. New record daily sunshine of 13.7 hrs on 23<sup>rd</sup>. Minimum pressure lowest since 1994. **May.** Mild with above normal rainfall and below normal sunshine. Highest maximum lowest since 1994. Hailstones 6 mm dia. fell on 5<sup>th</sup>. Dullest since 1996. Mean wind speed a new low record, as were the windiest day and highest gust. Minimum pressure lowest since before 1975.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Wind Mn mph	Max gust	Mean pressure	Anom
March	10.7	+0.1	2.8	-0.1	41.4	88 %	96.5	89 %	7.0	54	1020.5	+4.9
April	14.5	+1.4	4.9	+0.8	79.4	162 %	130.5	85 %	6.0	41	1013.0	-2.3
May	18.0	+1.0	7.9	+0.9	49.2	98 %	177.1	90 %	4.5	29	1017.0	+1.1

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