

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 2005

Temperature (°C / °F)			Anomaly	Rank in past 124 years			
Mean maximum	17.4	63.3	+0.4	53 rd highest			
Mean minimum	7.2	45.0	+0.2	37 th highest			
Daily mean	12.3	54.1	+0.3	40 th highest			
Highest maximum	29.8	85.6	on 27 th	Lowest maximum	12.0	53.6	on 4 th
Highest minimum	14.1	57.4	on 28 th	Lowest minimum	-0.8	30.6	on 11 th
Mean grass minimum	3.7	38.7		Lowest grass minimum	-5.2	22.6	on 11 th
Mean earth @30 cm	13.2	55.8	+0.1	Earth @100 cm	11.9	53.4	+0.6
Frost duration (hrs)	1.3			Rain duration (hrs)	16.2		
Rainfall total (mm / in)	28.2	1.11	56 %	29 th lowest			
Highest daily fall	14.8	0.58	on 21 st				
Number of: Dry days (<0.2mm)	19	Wet days (>0.9mm)	6	days ≥5mm	1		
Sunshine total (hrs) 193.3	Daily mean	6.24	113 %	Sunniest day	14.7		on 15 th
N ^o days with: Air frost 1	Ground frost	8	Snow falling	0	Snow lying	0	
Thunder 1	Hail ≥5mm	0	Small hail/ice	3	Fog @09	0	Nil sun 0
Air pressure MSL : Mean @09 GMT (mbar/in)	1016.9		+1.0	30.03			
Absolute highest	1027.3			30.34			on 11 th
Absolute lowest	1002.9			29.62			on 22 nd

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

Notes:

Dry.

Temperature Above Normal.

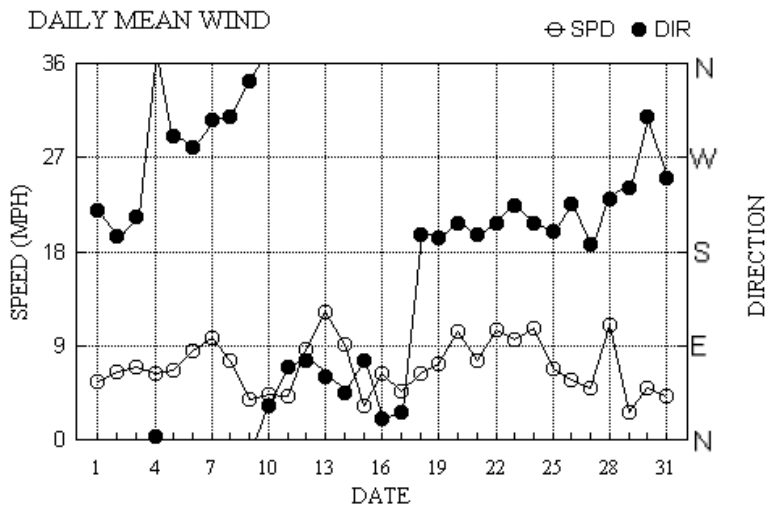
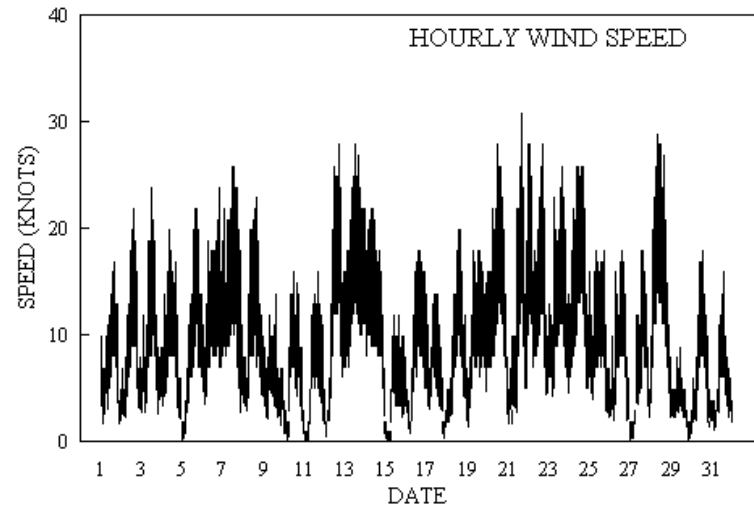
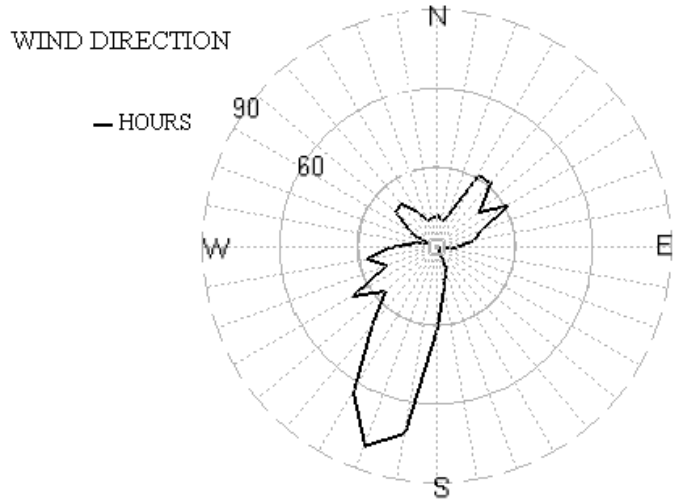
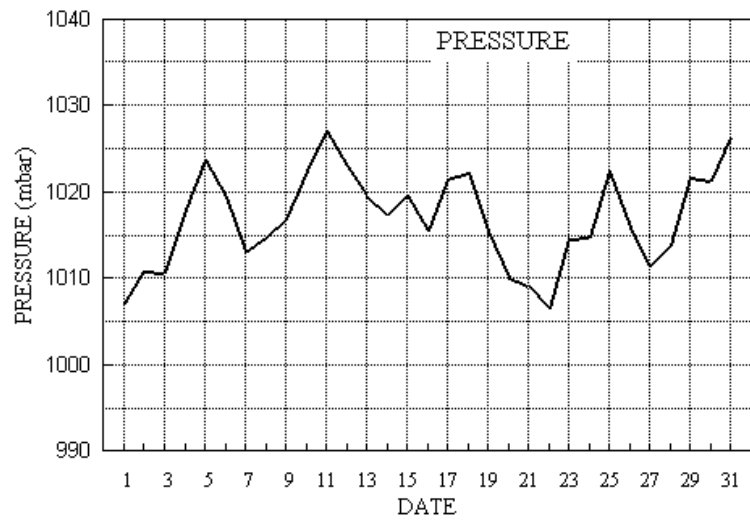
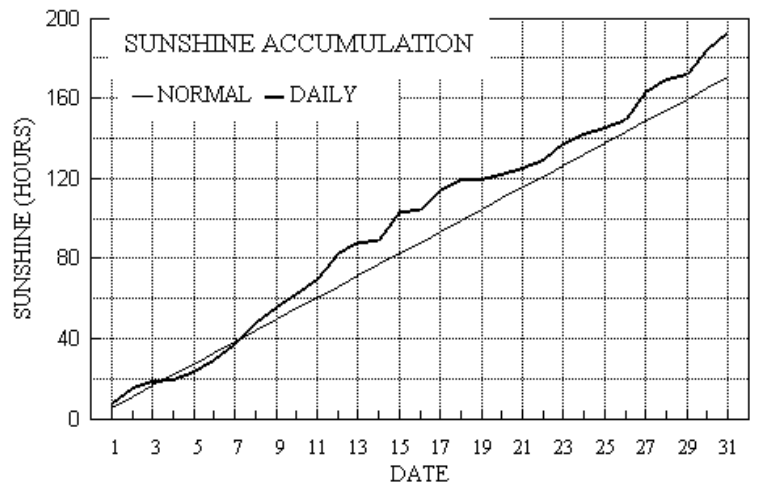
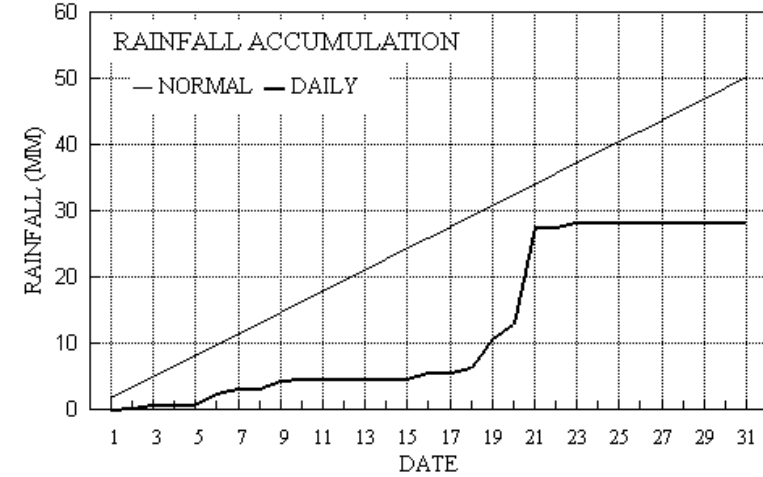
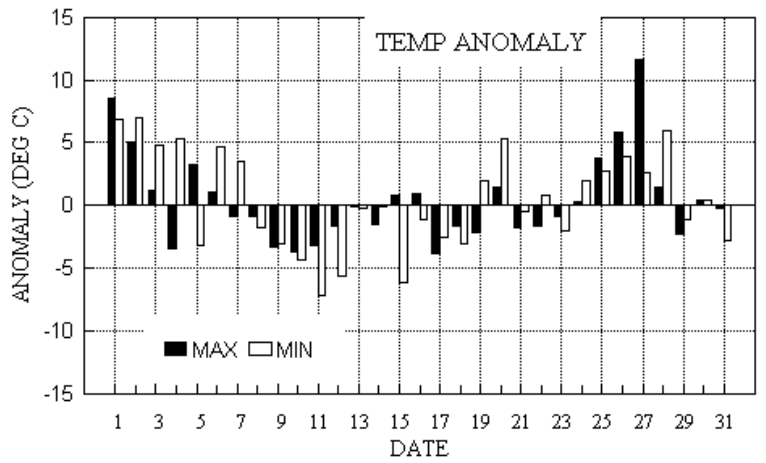
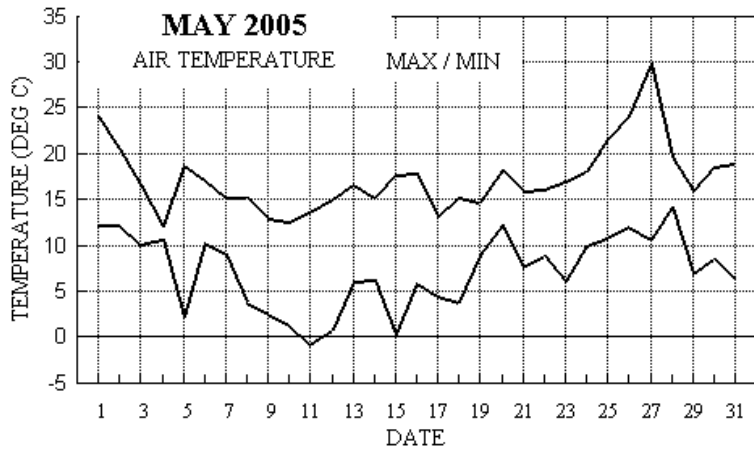
Sunshine Near Normal.

Temperature. Although the mean this May is 0.3° above the current climatological average, and 0.6° above the long-term median, it is lowest since 1996. However, in terms of the mean maximum, it is only lowest since 2002. The 27th was notable for its heat, and the maximum of 29.8° made it the hottest May day since 1953, 4.8° above the median, and 5th highest in 102 years. At the other extreme, an overnight minimum of -0.8° on the 11th is lowest since 1997 and is 1.3° below the median, and the grass minimum of -5.2° on the same night is also lowest since 1997. The number of ground frosts is most since 1996. The lowest maximum is 1.1° above the median while the highest minimum is 1.7° above its median. **Rainfall.** A low total this May, just over half the average. It is driest since 1998, and 15.7 mm below the long-term median. In fact, a dry month overall, with 14.8 mm, about half the month's total, falling on the 21st, and 10.8 mm of that in just one hour, between 09 and 10 GMT. The total duration of measurable rain is lowest since before 1993. There was a notable thunderstorm between 0100 and 0138 GMT on the 1st, with a memorable display of very frequent lightning, mostly high in the clouds, but almost no rain here. Small hail fell on the 7th, 9th and 10th. There were two dry spells, one of 5 days ended on the 15th and one of 8 days ended on the 31st. **Sunshine.** Quite a reasonable total, equal highest with 2001 since 1998. 14.7 hours on the 15th is 94 % of the maximum possible, and the sunniest May day since 15.1 hours on the 30th in 2001. Overall there were 7 days with <3 hours, 15 with =>6 hours, 7 with =>9 hours and 3 with =>12 hours. **Wind.** The mean wind speed this May, 7.0 mph, is slightly above average. The windiest day was the 13th, mean 12.1 mph, but the month's highest gust of 36 mph was on the 21st. The 29th was the least windy day, mean 2.5 mph, and there were 24 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,3 NE,4 E,3 SE,0 S,6 SW,9 W,3 NW,3. **Humidity.** The mean relative humidity was 71.6 %, and the lowest value recorded was 27 % on the 15th. The mean water vapour content per kg of air was 6.7 g at 0900 and 6.1 g at 1500 GMT. **Commentary. From the 1st to the 10th:** Temperatures started well above normal, with anomalies of +8.5° and +6.9° for max and min on the 1st, but it turned cooler over the next few days and by the 10th anomalies were -3.7° and -4.4° for max and min, with 10 day mean anomalies of +0.7° and +2.0° for max and min resp. The anomaly for the max on the 4th, the month's coldest day, was -3.5°. Rainfall was low with only 28 % over the 10 days, despite only 4 being dry. Sunshine was reasonable, about 15 % above normal, and 4 days had over 50 % of maximum. Moderate SW'ly winds on the 1st veered N'ly on 4th, backed W'ly on 5th, then gradually veered NE'ly by the 10th, falling light on 9th. **From the 11th to the 20th:** Temperatures generally near or below normal, with anomalies for daily max ranging from -3.8° on the 17th to +1.4° on the 20th, and an anomaly of -7.2° for the min on the 11th, the month's coldest night, but up the +5.3 for the anomaly of the minimum on the 20th, giving 10 day mean anomalies of -1.1° and -1.9° for max/min resp. 6 days were dry, and most of the rain fell on the 19th and 20th, the 10 day total being 51 % of normal. Not quite as sunny, but 9 % above normal overall with just 3 days having over 50 % of the maximum, although there was 14.7 hours on the 15th, the month's sunniest day. Winds were NE'ly until the 17th then S'ly, light on the 11th, fresh on the 12th and 13th, then light or moderate, but fresh again on 20th. **From the 21st to the 31st:** Temperatures were near or below normal apart from the brief hot spell on 26th/27th, when the maximum reached 29.8° on the 27th, anomaly +11.6°, only to be 10.2° lower on the following day. Minima were also not far from normal, although there was an anomaly of +6.0 on the 28th, the month's warmest night, giving 11 day mean anomalies of +1.5° and +1.1° for max/min resp. 9 dry days, yet the 11 day total of 15.4 mm is 86 % of normal, all the result of the 14.8 mm on the 21st, the month's wettest day. Sunshine was 18 % above normal overall, with 4 days over 50 % of the maximum. Moderate or fresh winds were S'ly or SW'ly up to the 28th, becoming light or moderate W'ly thereafter.

B J Burton. FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham Climatological Data



Month: MAY 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	24.0	12.2	tr	8.5	13.2	10.7	7.7	0.0	1007.0	0 0 0 0	1 0 0 0	0 0 0 0	220	3.7 4.9	210 17 1648	220 8 15	0.0	
2	20.5	12.3	0.2	9.3	13.7	10.9	8.3	0.0	1010.9	0 0 0 0	0 0 0 0	0 0 0 0	195	5.6 5.7	200 22 1557	200 10 13	0.3	
3	16.7	10.1	0.4	5.3	14.0	11.1	3.2	0.0	1010.7	0 0 0 0	0 0 0 0	0 0 0 0	213	5.4 6.1	210 24 1222	210 11 12	0.9	
4	12.0	10.6	tr	7.8	13.7	11.3	0.6	0.0	1017.9	0 0 0 0	0 0 0 0	0 0 0 0	3	4.9 5.5	10 20 0921	10 10 09	0.0	
5	18.7	2.1	0.0	-1.7	12.8	11.5	4.5	0.0	1023.7	0 1 0 0	0 0 0 0	0 0 0 0	290	5.2 5.8	310 22 1517	310 11 15	0.0	
6	17.2	10.3	1.7	7.4	13.0	11.6	5.3	0.0	1019.4	0 0 0 0	0 0 0 0	0 0 0 0	280	6.5 7.3	270 24 1905	270 10 19	0.3	
7	15.3	9.1	0.7	7.6	13.3	11.6	8.4	0.0	1013.0	0 0 0 0	0 0 1 0	0 0 0 0	306	7.3 8.4	310 26 1202	310 11 11	0.2	
8	15.3	3.8	tr	-1.2	13.2	11.7	10.3	0.0	1014.8	0 1 0 0	0 0 0 0	0 0 0 0	310	5.8 6.5	340 23 1533	330 10 15	0.0	
9	12.9	2.5	1.2	-2.7	12.9	11.7	7.5	0.0	1016.7	0 1 0 0	0 0 1 0	0 0 0 0	343	2.4 3.4	330 14 1514	360 5 10	0.8	
10	12.5	1.2	0.3	-3.2	12.6	11.8	6.7	0.0	1022.3	0 1 0 0	0 0 1 0	0 0 0 0	32	3.6 3.8	30 16 1214	40 7 16	0.3	
11	13.6	-0.8	0.0	-5.2	12.1	11.8	7.0	1.3	1027.0	1 1 0 0	0 0 0 0	0 0 0 0	70	3.4 3.6	60 16 1544	80 6 15	0.0	
12	15.1	0.7	0.0	-4.6	12.0	11.8	13.4	0.0	1022.9	0 1 0 0	0 0 0 0	0 0 0 0	76	7.3 7.5	80 28 1626	80 13 16	0.0	
13	16.7	6.1	0.0	4.0	12.2	11.7	5.7	0.0	1019.5	0 0 0 0	0 0 0 0	0 0 0 0	61	10.4 10.5	70 28 1159	70 13 11	0.0	
14	15.3	6.3	0.0	5.9	12.2	11.7	0.6	0.0	1017.4	0 0 0 0	0 0 0 0	0 0 0 0	45	7.9 8.0	40 22 0709	40 11 09	0.0	
15	17.6	0.2	0.0	-3.6	12.0	11.7	14.7	0.0	1019.6	0 1 0 0	0 0 0 0	0 0 0 0	75	1.3 2.8	40 12 0902	200 6 19	0.0	
16	17.8	5.8	1.1	2.4	12.6	11.7	0.7	0.0	1015.5	0 0 0 0	0 0 0 0	0 0 0 0	20	3.9 5.4	40 18 1456	30 10 14	2.4	
17	13.1	4.4	0.0	2.0	12.5	11.7	9.4	0.0	1021.4	0 0 0 0	0 0 0 0	0 0 0 0	27	3.5 4.0	30 14 0026	30 7 06	0.0	
18	15.3	3.8	0.6	-0.3	12.5	11.8	5.6	0.0	1022.2	0 1 0 0	0 0 0 0	0 0 0 0	197	5.0 5.5	200 20 1317	200 10 14	1.6	
19	14.7	8.8	4.4	7.7	12.7	11.8	0.1	0.0	1015.5	0 0 0 0	0 0 0 0	0 0 0 0	194	6.1 6.3	200 18 1205	210 9 13	4.1	
20	18.3	12.2	2.2	11.7	12.9	11.9	2.4	0.0	1010.1	0 0 0 0	0 0 0 0	0 0 0 0	207	8.8 9.0	220 28 1159	210 13 14	0.6	
21	16.0	7.6	14.8	2.3	13.1	11.9	3.2	0.0	1009.1	0 0 0 0	0 0 0 0	0 0 0 0	196	6.3 6.6	210 31 1545	210 14 15	2.5	
22	16.1	8.9	tr	4.8	13.1	12.0	3.9	0.0	1006.6	0 0 0 0	0 0 0 0	0 0 0 0	207	9.0 9.2	220 28 0258	200 13 02	0.0	
23	16.9	6.1	0.6	0.8	13.1	12.1	8.2	0.0	1014.6	0 0 0 0	0 0 0 0	0 0 0 0	225	8.1 8.3	220 26 1606	220 12 15	1.9	
24	18.1	10.0	tr	8.0	13.3	12.1	5.2	0.0	1014.8	0 0 0 0	0 0 0 0	0 0 0 0	207	9.1 9.3	220 26 1407	210 14 11	0.2	
25	21.5	10.8	tr	7.7	13.4	12.2	2.9	0.0	1022.3	0 0 0 0	0 0 0 0	0 0 0 0	200	5.8 5.9	200 18 1607	190 9 16	0.0	
26	24.0	12.0	tr	8.3	13.8	12.2	4.3	0.0	1015.8	0 0 0 0	0 0 0 0	0 0 0 0	226	4.6 5.0	240 18 1348	240 10 13	0.0	
27	29.8	10.7	0.0	8.0	14.5	12.4	13.6	0.0	1011.4	0 0 0 0	0 0 0 0	0 0 0 0	187	3.5 4.3	190 18 1416	200 9 14	0.0	
28	19.6	14.1	0.0	10.6	15.5	12.5	6.1	0.0	1013.8	0 0 0 0	0 0 0 0	0 0 0 0	231	9.1 9.6	220 29 0725	230 13 11	0.0	
29	15.9	7.0	0.0	2.1	15.0	12.7	2.9	0.0	1021.6	0 0 0 0	0 0 0 0	0 0 0 0	242	1.2 2.2	220 9 1015	240 4 10	0.0	
30	18.6	8.5	0.0	4.7	14.8	12.9	11.6	0.0	1021.2	0 0 0 0	0 0 0 0	0 0 0 0	309	3.2 4.3	310 18 1311	350 9 10	0.0	
31	18.9	6.3	tr	1.8	14.9	13.0	9.3	0.0	1026.3	0 0 0 0	0 0 0 0	0 0 0 0	251	2.9 3.6	280 16 1313	280 7 13	0.1	
Total			28.2				193.3	1.3										16.2
Mean	17.4	7.2		3.7	13.2	11.9	6.24	0.0	1016.9					229	1.7 6.1			
Anom	+0.4	+0.2	56%	+0.1	+0.6	113%				+1.0								
Daily mean		12.3																
Anom		+0.3																

Number of days with:

Air frost = 1 Ground frost = 8 Nil sun = 0
Snow falling = 0 Snow lying = 0 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 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 MAY 2005

Date	VV	N	dd	ff	gg	TT	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NCh	shs	NCh	shs	Date	Remarks
1	59	7	25	06	11	18.3	14.5	79	10.4	1007.0	3	010	14	8	2	2	0	9	8	1	81362	87075			1	2Ac65 COTRA Ac cas jpE Halo 22° part	
2	80	5	20	07	13	14.9	10.8	76	8.1	1010.9	2	006	01	2	2	1	1	5	8	2	81820	85070			2	1Ac62 1Ac64 Cu fra Ac cas Ci spi mam	
3	61	7	18	07	19	13.5	11.4	87	8.5	1010.7	6	004	80	8	1	7	8	4	7	/	83817	87640			3	/Ac57	
4	57	8	36	10	17	10.7	9.1	90	7.2	1017.9	2	027	50	5	2	8	5	3	/	/	86708	88612			4		
5	77	7	26	05	11	11.5	7.4	76	6.3	1023.7	0	000	03	2	2	7	5	5	/	/	82625	87630			5		
6	82	7	31	07	15	11.9	4.4	60	5.2	1019.4	1	009	01	2	2	7	8	6	0	1	85835	83645			6	1Ci75 Cu hum	
7	88	5	33	12	22	12.0	4.8	61	5.4	1013.0	1	017	03	1	1	3	8	5	0	1	83828	83075			7	1Sc35 Cu med	
8	84	3	32	09	20	11.5	3.6	58	4.9	1014.8	8	003	03	0	0	3	2	6	0	1	83835				8	1Ci75 Cu med	
9	82	3	34	04	10	8.9	3.6	69	4.9	1016.7	1	007	03	0	0	3	2	5	0	0	83825				9	Cu med	
10	81	3	02	07	14	9.8	3.4	64	4.8	1022.3	1	008	03	0	0	3	2	8	0	0	83828				10	Cu med	
11	82	3	04	07	12	9.9	3.0	62	4.6	1027.0	0	000	03	0	0	3	2	5	0	1	83825				11	1Ci75 Cu med	
12	70	5	08	10	18	11.0	4.3	63	5.1	1022.9	7	005	03	1	1	4	1	5	0	1	84828	83080			12	COTRA Cu hum	
13	73	7	06	10	24	11.8	6.6	70	6.0	1019.5	0	000	01	2	2	5	1	5	3	1	85825	86078			13	1Ac64 COTRA Cu hum	
14	80	7	04	11	18	9.8	4.7	70	5.3	1017.4	3	003	03	2	2	1	1	5	7	8	81822	83362	87273		14	Cu fra Halo 22° part	
15	75	6	05	04	10	10.7	5.7	71	5.7	1019.6	8	002	03	1	1	2	1	5	0	1	82828	85080			15	COTRA	
16	80	7	03	06	10	14.1	6.7	61	6.1	1015.5	1	005	03	2	2	7	0	9	8	1	81358	87362			16	/Ci75 1Ac cas	
17	84	7	03	07	14	9.0	1.2	58	4.1	1021.4	2	006	03	1	1	4	8	6	0	1	83835	86080			17	1Sc45 COTRA Cu med	
18	80	4	24	08	14	13.1	3.8	53	5.0	1022.2	1	008	03	1	1	1	8	6	3	1	81835	83080			18	1Sc56 1Ac62 Cu med COTRA	
19	59	8	17	08	16	12.5	11.4	93	8.4	1015.5	8	003	51	6	5	8	5	3	/	/	82709	87712	88625		19		
20	61	8	20	09	20	13.5	12.6	94	9.1	1010.1	7	007	60	6	5	8	5	3	/	/	82706	87709	88620		20		
21	50	8	16	03	10	11.3	10.3	94	7.9	1009.1	8	012	64	6	2	7	5	4	2	/	82712	85620	88550		21	3Sc30 Hvy ra comm 0837	
22	88	5	22	08	16	12.7	5.7	62	5.7	1006.6	1	015	03	1	1	5	8	5	0	0	84828				22	2Sc40 Cu med	
23	86	5	23	10	20	12.5	4.9	60	5.4	1014.6	2	019	03	1	1	5	2	6	0	0	85830				23	Cu med	
24	50	8	20	12	24	12.0	11.0	94	8.2	1014.8	7	008	51	6	5	8	5	3	/	/	82708	87712	88615		24		
25	65	8	20	10	18	14.6	12.6	88	9.0	1022.3	2	013	60	2	2	8	6	4	/	/	87710	88615			25		
26	75	7	24	06	13	18.5	12.2	67	8.9	1015.8	2	012	15	2	2	6	0	9	7	8	82458	86462	87272		26	1Ac66 COTRA jpW	
27	72	2	14	05	11	22.9	14.7	60	10.5	1011.4	7	022	02	0	0	2	0	9	8	0	82365				27	Ac cas	
28	84	6	22	14	27	16.5	9.0	61	7.1	1013.8	3	017	02	2	2	6	8	5	3	0	81828	86630			28	1Ac68 Cu hum	
29	80	7	25	03	06	13.2	8.4	73	6.8	1021.6	1	003	03	2	2	1	1	5	3	8	81820	87275			29	1Ac67 COTRA Cu fra Halo 22° part	
30	81	3	32	06	12	15.6	8.8	64	7.0	1021.2	3	014	03	0	0	1	2	6	3	2	81830				30	2Ac60 1Ci72 Cu con	
31	84	6	23	05	11	16.1	8.0	59	6.6	1026.3	0	006	03	1	1	2	8	6	3	1	82832	86080			31	1Sc45 1Ac60 2Cs75 COTRA Cu med Halo 22 part	

Mean vis = 30.8 km
Mean cloud = 5.9 73%
Mean wind speed = 7.6 kn
Mean gust = 15 kn
Mean TT = 13.0 C
Mean TdTd = 7.7 C
Mean RH = 70.9%
Mean r = 6.7 g/kg
Mean PPP = 1016.9 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 MAY 2005

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppwwW1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks		
1	84	5	22	08	16	23.7	8.4	38	6.9	1007.7	1	002 03	1	1	1	1	7 8 1	81850	84362	1	3Ci78 COTRA Cu hum Ac cas
2	83	3	20	10	20	19.8	8.8	49	7.1	1011.6	2	005 02	1	1	1	2 6 3 0	81840		2	2Ac57	
3	75	7	22	10	19	16.3	9.4	64	7.4	1009.0	7	010 15	2	2	7 8 5	/ /	85828	83656	3	Cu con jp NW&W	
4	62	8	03	08	15	10.7	7.6	81	6.4	1022.0	1	019 02	5	2	8 8 4	/ /	81712	85815	88622	4	
5	84	3	30	08	21	18.4	6.6	46	6.0	1020.5	8	016 01	1	1	2 1 6 4	1	82845		5	1Ac57 2Ci75 COTRA Cu hum	
6	81	4	27	09	18	17.0	3.8	41	4.9	1017.5	7	012 03	1	1	2 1 7 4	4	82850	83078	6	1Ac60 COTRA Cu hum	
7	86	2	32	11	24	14.3	3.5	48	4.9	1013.4	1	006 15	8	1	2 8 6 0	3	81840		7	2Sc56 1Ci72 Cu con. Cb top NW jpS	
8	80	4	30	10	22	13.9	1.4	43	4.2	1012.7	6	010 15	1	1	1 9 6 6	3	81945	83358	8	1Cu50 1Ci70 Cb&jp NW,N,SE	
9	65	6	09	04	11	11.3	3.7	59	4.9	1016.8	0	001 80	8	1	4 9 6 6	3	83940		9	1Cu45 2Ac58 vv 60k ex p	
10	80	7	08	04	15	10.2	6.6	78	6.0	1023.6	2	007 25	8	2	7 8 6	/ /	82830	87656	10	Cu con jpS	
11	81	7	07	06	13	12.7	0.6	43	3.9	1025.6	7	007 02	1	1	5 4 7 0	1	85650	85080	11	COTRA	
12	81	6	08	12	24	14.5	0.4	38	3.9	1020.5	8	010 02	2	2	1 0 9 3	1	81368	86078	12	1Ci72 COTRA 1Ci flo U/a cont faint	
13	78	5	07	12	25	15.5	3.8	46	5.0	1017.7	7	008 03	1	1	2 1 7 8	0	82850	84362	13	Cu hum Ac cas	
14	84	7	07	08	17	14.8	0.6	38	3.9	1018.0	2	002 01	2	2	1 1 7 3	8	81850	83070	87275	14	1Ac68 Cu hum U/a and L/a cont
15	84	3	03	03	12	17.0	-0.5	30	3.6	1017.0	7	014 02	0	0	1 1 7 0	1	81850	83078	15	Absent vv&cld est	
16	65	8	03	10	18	12.1	10.6	90	7.9	1017.1	3	014 60	6	2	5 8 4 2	/ /	81715	83820	88457	16	1Sc40 2Sc56
17	84	6	04	04	09	11.1	-0.9	43	3.5	1020.7	6	007 01	2	2	5 4 7 0	1	81850	85656	17	3Ci80 COTRA Cu hum	
18	81	8	20	10	20	13.6	0.6	41	3.9	1021.3	6	004 03	2	2	1 4 7 1	7	81656	88275	18	2As68 COTRA Halo 22°	
19	80	8	20	07	18	14.3	12.3	88	8.9	1014.0	7	009 60	5	6	8 5 4	/ /	87612	88620	19		
20	75	6	22	12	26	17.1	9.9	63	7.7	1009.4	5	004 15	2	2	6 8 6	/ /	84835	83650	20	/Ci75 Cu con jpNW vv50k ex p	
21	82	6	21	14	26	15.2	9.9	70	7.6	1005.9	7	010 25	8	2	3 8 5 6	3	83828	83072	21	1Sc50 2Ac62 Cu con jpNW	
22	84	7	20	12	24	15.4	7.6	60	6.6	1005.9	6	004 15	2	2	7 8 6	/ /	83832	86656	22	/Ci75 Cu med jpSW	
23	80	4	24	13	23	15.9	3.0	42	4.7	1015.8	2	006 15	1	1	3 2 7 6	0	83850		23	2Ac57 jp NW&N vv60k ex p	
24	75	5	21	15	26	17.7	10.0	61	7.6	1015.4	1	005 01	1	1	2 8 5 0	1	82827	83075	24	1Sc35 U/a cont	
25	83	6	19	07	16	20.7	12.8	61	9.2	1020.8	8	013 01	2	2	1 1 6 7	1	81835	85367	25	1Ac65 3Ci75 Cu hum Ac str du vir	
26	86	6	25	08	16	23.5	15.6	61	11.1	1016.2	2	002 02	2	2	3 1 6 8	1	83832	84075	26	1Ac65 COTRA Cu hum Ac cas U/a cont, faint	
27	81	2	20	08	18	29.4	13.0	37	9.1	1008.1	7	012 02	0	0	2 0 9 8	0	82362		27	Ac cas Ac flo	
28	83	5	23	11	22	18.9	10.0	56	7.6	1015.7	1	010 02	1	1	4 8 6 0	0	84835		28	2Sc45 Cu med	
29	84	7	32	02	05	15.1	4.4	49	5.2	1020.4	7	003 03	2	2	1 1 6 3	8	81840	83365	87275	29	
30	86	2	32	06	14	18.0	3.5	38	4.8	1023.5	1	010 02	0	0	2 2 7 3	0	82856		30	1Ac58 Cu med Distant Cb cap T	
31	84	5	33	06	14	18.4	6.4	45	5.9	1025.1	7	003 02	1	1	2 2 7 3	1	82850	83080	31	2Ac57 Cu med	

Mean vis = 38.5 km
 Mean cloud = 5.4 68%
 Mean wind speed = 8.6 kn
 Mean gust = 18 kn
 Mean TT = 16.3 C
 Mean TdTd = 6.2 C
 Mean RH = 53.1 %
 Mean r = 6.1 g/kg
 Mean PPP = 1016.4 mbar

VV = Visibility code (Code FM12-4377)
 N = Total cloud amount, oktas
 dd = Direction from which wind is blowing, tens of degrees true
 ff = 10 minute mean wind speed, knots
 gg = Highest gust in past hour, knots
 TT = Air temperature at 1.2 m, deg Celsius
 TdTd = Dew point temperature at 1.2 m, deg Celsius
 RH = Relative humidity at 1.2 m
 r = Humidity mixing ratio at 1.2 m, g/kg
 PPP = Air pressure reduced to sea level, mbar
 a = Characteristic of pressure tendency (Code FM12-0200)
 ppp = 3 hr pressure tendency, tenths of mbar
 ww = Present weather code (Code FM12-4677)
 W1, W2 = Past weather code (Code FM12-4561)-
 covers past 3 hours.
 Nh = Amount of low cloud present, oktas
 Cl = Type of low cloud (Code Fm12-0513)
 h = Height of low cloud (Code FM12-1600)
 Cm = Type of medium cloud (Code FM12-0515)
 Ch = Type of high cloud (Code FM12-0509)
 8 groups. 8 = indicator for cloud detail
 N = Amount of cloud, oktas
 C = Type of cloud (FM12-0500)
 hshs= Height of cloud (FM12-1677)
 Remarks : COTRA = persistent condensation
 trails present.

Wokingham Psychrometer
 Daily means and extremes, 00-24 GMT
 MAY 2005

Date	Mean			Min			Mean			Max			Missing RH N >0	Number of minutes RH in given ranges								
	TT	TT	Time	TT	Time	RH	RH	Time	RH	Time	RH	Time		RH	Time	RH	0-20	20-40	40-60	60-80	80-90	90-95
01	18.0	24.0	14:49	13.3	23:58	70.7	95.1	03:37	37.4	14:56			0	28	419	430	322	235	6	0		
02	15.8	20.5	13:29	12.4	23:32	71.7	90.1	02:49	46.8	13:59			0	0	455	318	664	3	0	0		
03	13.2	16.7	14:00	10.6	05:11	83.0	94.7	04:30	62.9	14:25			0	0	0	383	757	300	0	0		
04	10.3	12.4	00:01	4.8	23:59	85.8	93.8	05:00	69.0	17:30			0	0	0	205	924	311	0	0		
05	11.4	18.7	14:58	3.4	03:54	74.4	96.7	05:06	40.1	15:32			0	0	330	414	258	298	140	0		
06	13.0	17.2	14:53	10.3	04:26	66.3	90.1	04:30	40.2	14:16			0	0	593	349	492	6	0	0		
07	11.6	15.3	12:20	7.1	23:59	66.6	92.6	05:48	41.3	12:21			0	0	535	478	393	34	0	0		
08	9.6	15.3	13:01	4.5	04:39	62.3	88.7	04:44	35.3	15:13			0	67	661	458	254	0	0	0		
09	8.2	12.9	12:28	3.4	04:37	71.7	90.6	16:07	40.7	12:30			0	0	335	607	490	8	0	0		
10	7.8	12.5	15:26	1.9	04:28	76.4	94.6	05:32	48.9	17:32			0	0	132	651	326	331	0	0		
11	7.9	13.6	15:49	0.4	03:52	68.3	93.2	04:07	37.9	13:59			0	12	554	346	209	319	0	0		
12	9.3	15.1	14:22	1.8	03:54	64.1	94.5	05:36	32.5	14:31			0	209	479	302	214	236	0	0		
13	11.2	16.7	12:44	6.3	00:13	67.3	91.2	04:29	41.4	14:47			0	0	564	424	352	100	0	0		
14	9.9	15.3	13:26	4.4	23:53	68.4	87.0	23:58	36.1	14:52			0	10	412	542	476	0	0	0		
15	10.9	17.6	15:29	1.4	04:46	64.0	93.6	04:45	26.9	17:03			0	369	203	415	143	310	0	0		
16	10.5	17.8	12:12	6.3	23:59	78.7	95.9	18:20	42.1	11:55			0	0	332	149	596	305	58	0		
17	8.9	12.7	12:17	4.3	05:12	58.4	86.1	04:28	30.5	15:46			0	302	446	464	228	0	0	0		
18	10.5	15.3	13:45	4.7	04:44	59.6	88.6	23:46	36.5	16:59			0	181	610	383	266	0	0	0		
19	12.4	14.6	17:33	8.9	00:29	90.0	96.9	23:01	79.1	05:06			0	0	0	15	720	498	207	0		
20	14.2	18.3	13:04	10.3	23:58	82.2	96.9	00:13	53.9	14:01			0	0	111	432	312	305	280	0		
21	11.5	16.1	15:33	8.3	03:56	83.8	97.2	04:26	57.5	15:31			0	0	20	449	399	289	283	0		
22	12.5	16.1	13:34	9.0	04:53	72.1	90.9	01:03	49.3	10:04			0	0	331	575	489	45	0	0		
23	11.9	16.9	14:22	6.6	04:27	66.0	92.0	04:32	33.9	13:24			0	69	533	441	290	107	0	0		
24	13.1	18.1	15:28	10.0	04:07	82.4	95.6	08:01	57.2	16:21			0	0	56	402	598	322	62	0		
25	15.8	21.5	15:10	10.8	03:05	74.6	92.7	05:34	43.6	16:24			0	0	296	474	390	280	0	0		
26	18.3	24.0	15:15	14.0	02:20	74.9	94.8	23:58	58.5	10:28			0	0	51	835	444	110	0	0		
27	21.4	29.8	15:24	11.6	04:28	66.3	97.3	04:46	35.2	14:11			0	203	532	235	67	58	345	0		
28	15.9	19.5	15:09	9.8	23:59	67.0	86.1	23:59	47.7	17:39			0	0	418	760	262	0	0	0		
29	12.4	15.9	10:54	7.6	04:09	71.1	92.7	04:34	46.3	11:53			0	0	449	484	306	201	0	0		
30	14.0	18.6	14:33	9.0	04:35	64.0	92.1	04:00	34.3	17:35			0	150	514	377	318	81	0	0		
31	14.2	18.9	13:16	7.6	04:01	66.6	91.7	04:36	39.9	13:08			0	1	663	245	422	109	0	0		
Mean	12.4	17.4		7.3		71.6	92.7		44.6				0.00	0.86	5.93	7.01	6.66	2.80	0.74	0.00		
Hi	21.4	29.8		14.0		90.0	97.3		79.1	Tot	0	0	1601	11034	13042	12381	5201	1381	0			
Lo	7.8	12.4		0.4		58.4	86.1		26.9													

Note. Aspirated Psychrometer exposed near house. Winds with a component from 030 deg can produce a distorted diurnal temperature profile. Compensation for this is made in post processing, and maxima are constrained to be within 0.2C of screen values about 500m away. Minima on radiation nights can also be about 1C higher than screen values, due partly to topography. No compensation is made for this. Humidity readings are similar to screen derived values under most conditions and in most instances can be considered more accurate due to controlled aspiration. The psychrometer is of experimental design, and logs one minute average values of temp and RH.

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 2005

Temperature (°C)		Rank in the past 124 years	
Mean maximum	14.5	(+0.9)	24 th highest
Mean minimum	5.4	(+0.7)	11 th highest
Daily mean	9.9	(+0.8)	17 th highest
Rainfall total (mm)	121.8	(83 %)	45 th lowest
Sunshine total (hours)	416.3	(105 %)	
N° of:	Dry days	50 (-1)	Wet days
			22 (-6)
Days with:	Air frost	11 (0)	Ground frost
			37 (-1)
			Snow falling
			7 (+3)
			Snow lying
			1 (0)
Thunder	3 (-2)	Hail ≥5mm	0
		Small hail/ice	7
		Fog @09 GMT	1 (-1)
		Nil sun	8
Air pressure MSL : Mean @09 GMT (mbar)	1016.0		(+0.4)

Departure from 1971 to 2000 average shown in brackets.

Notes: **Mild with Below Normal Rainfall and Near Normal Sunshine.**

Temperature. Of the three spring months this year, relative to average, May was the coolest, anomaly +0.3°, while March and April were milder with anomalies of +1.0° and +1.2° resp. The resulting seasonal mean is 0.8° above the current climatological average, and 1.1° above the long-term median. The season's highest temperature, 29.8° on the 27th May, is the 5th highest spring value in 103 years, and is highest since 1953, 4.4° above the median. The lowest temperature occurred on the 4th of March, and at -5.0° is 0.8° below the median. The lowest maximum of 3.6°, also 0.8° below the median, was on the 2nd of March, while the highest minimum, 14.1°, 1.6° above the median, was on the 28th of May. The highest daily mean, 20.3° on the 27th May, is highest for spring since 1989. The mean grass minimum, 1.9°, is 0.4° above average, and the lowest grass minimum was -9.9° on the 4th March. Mean earth temperatures at 30 cm and 1 metre depth were 10.2° and 9.6° resp., both close to average. The number of air frosts is equal to the average, and the total duration of frost, 53.3 hours, is also close to average. **Rainfall.** The total rainfall this spring shows a deficit of 17 %. May had the least precipitation, 28.2 mm, and April the most with 51.8 mm, 106 % of average and the only month to exceed average. The season's wettest day was the 29th March, 18.8 mm, and that day also had the longest rainfall duration, 17.4 hours. The total duration for the season was 95.8 hours, about 32 hours below average (based on the past 12 years only). There were 4 dry spells, 2 in March and 2 in May, the longest being 8 days ending on the 31st May. Snow was frequent at the beginning of March, for the first 6 days, although amounts were very small, and only lay on one day, 1 cm depth on the 4th. Snow was also recorded on the 8th April. There were 3 days with thunder, 2 in April and 1 in May, this latter on the 1st being notable for its spectacular lightning display. **Sunshine.** Sunshine was below average in March, near average in April, and above average in May. The resulting seasonal total is just above average. The 15th May was the sunniest day, 14.7 hours. Overall there were 39 days with <3 hours of which 8 had nil, 32 with =>6 hours, 10 with =>9 hours, and 3 with =>12 hours. **Wind.** The overall mean wind speed was 6.5 mph, 0.6 mph below the 18 year average. May was the windiest month, 7.0 mph, and April the least windy, 5.9 mph. The windiest day was the 6th April, mean 13.2 mph, and the season's highest gust of 44 mph was also on that day. The 28th March was the least windy day, mean 2.2 mph, and there were 81 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,9 NE,10 E,11 SE,4 S,13 SW,25 W,9 NW,11. **Humidity.** The overall mean relative humidity was 76.0 %, while the lowest value, 27 %, was recorded on both 2nd April and 15th May. The mean water vapour content per kg of air was 6.1 g at 0900 and 5.7 g at 1500 GMT.

March. Mild and dull with rainfall near normal. 20.2° on 19th highest since 1990. Highest min is 5th highest in 93 years. Daily mean of 14.9° on 17th is highest for a March day in the past 30 years. 18.8 mm of rain on 29th wettest March day since 1984. Mean wind speed equal lowest with 2003 in past 18 years.

April. Mild and dull with above normal rainfall. Highest minimum 12.8° on 30th is a new record high. Daily mean on 30th 17.5° a new high in the past 30 years. Mean wind speed lowest since 1997.

May. Dry with above normal temperature and near normal sunshine. Max temp of 29.8° on 27th hottest May day since 1953 and 5th hottest in 102 years. Most ground frosts since 1996. Driest since 1998.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Wind Mn mph	Max gust	Mean pressure	Anom
March	11.6	+1.0	3.9	+1.0	41.8	89%	95.5	96%	6.3	37	1016.8	+1.2
April	14.6	+1.5	5.0	+0.9	51.8	106%	127.5	99%	5.9	44	1014.0	-1.3
May	17.4	+0.4	7.2	+0.2	28.2	56%	193.3	113%	7.0	36	1016.9	+1.0

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.