

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

JUNE 2005

Temperature (°C / °F)			Anomaly	Rank in the past 124 years			
Mean maximum	21.9	71.4	+2.1	11 th highest			
Mean minimum	11.4	52.5	+1.3	6 th highest			
Daily mean	16.6	61.9	+1.6	8 th highest			
Highest maximum	31.1	88.0	on 19 th	Lowest maximum	15.8	60.4	on 1 st
Highest minimum	18.8	65.8	on 20 th	Lowest minimum	2.2	36.0	on 7 th
Mean grass minimum	8.4	47.1		Lowest grass minimum	-1.8	28.8	on 7 th
Mean earth @30 cm	16.6	61.9	+0.3	Earth @100 cm	14.3	57.7	+0.2
Frost duration (hrs)	0.0			Rain duration (hrs)	15.8		
Rainfall total (mm / in)	26.1	1.03	48 %	31 st lowest			
Highest daily fall	6.7	0.26	on 3 rd				
Number of: Dry days (<0.2mm)	20	Wet days (>0.9mm)	6	days ≥5mm	3		
Sunshine total (hrs)	205.6	Daily mean	6.85	122 %	Sunniest day	15.8	on 22 nd
N ^o days with: Air frost	0	Ground frost	1	Snow falling	0	Snow lying	0
Thunder	3	Hail ≥5mm	0	Small hail/ice	0	Fog @09	0
							Nil sun 1
Air pressure MSL : Mean @09 GMT (mbar/in)	1019.3		+2.3	30.10			
Absolute highest	1038.2			30.66 on 8 th			
Absolute lowest	1005.9			29.70 on 30 th			

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

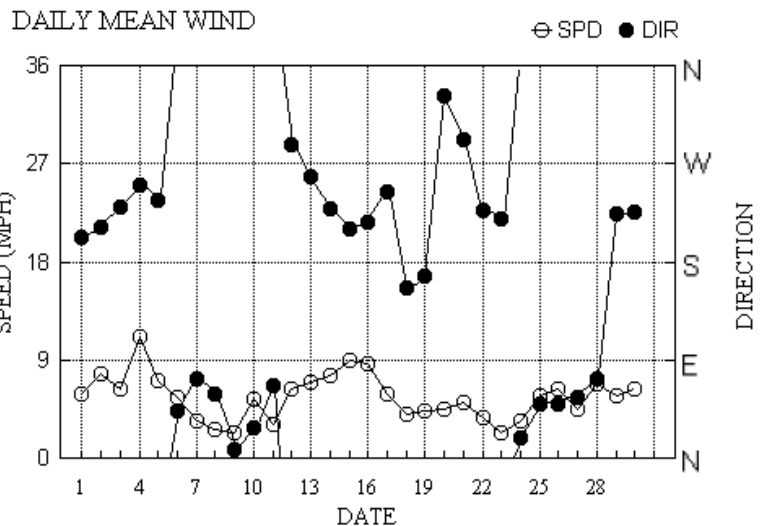
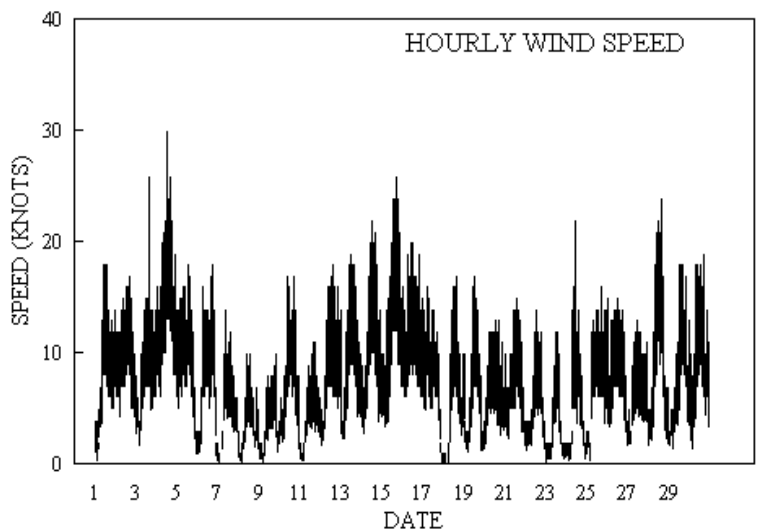
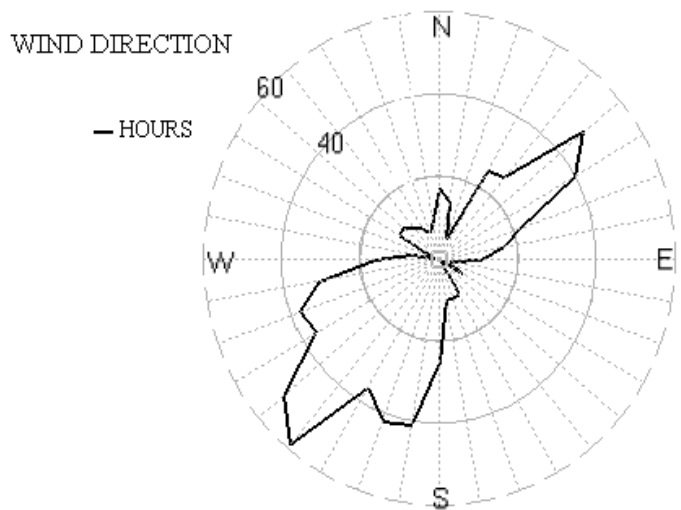
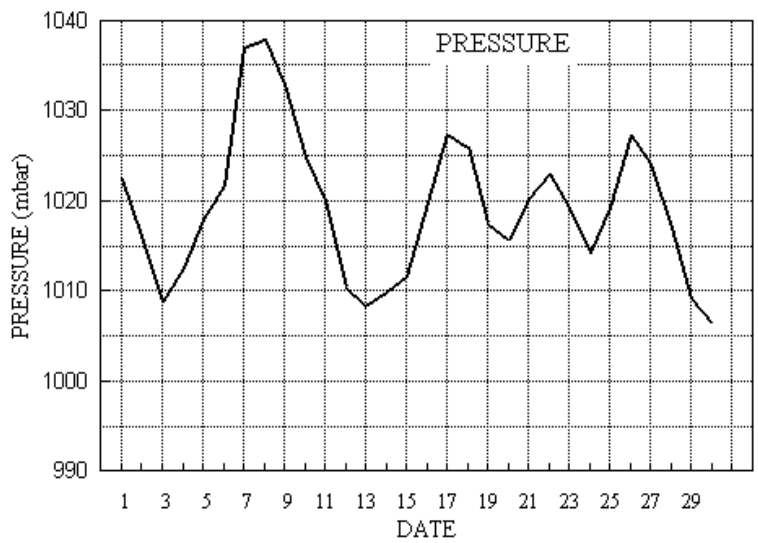
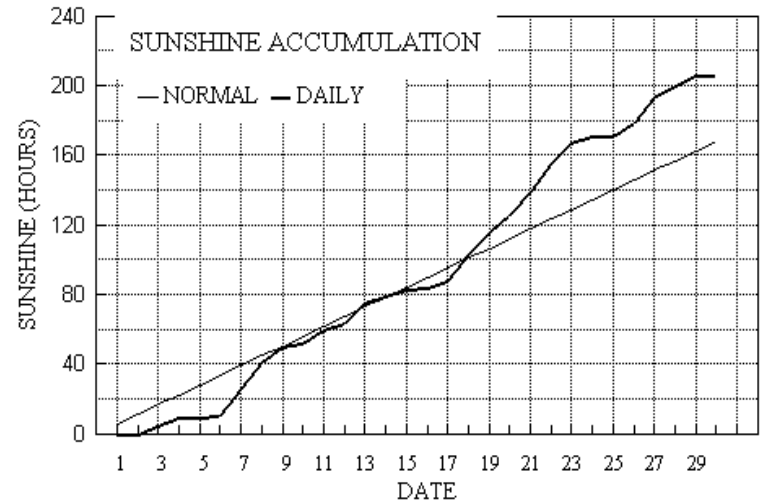
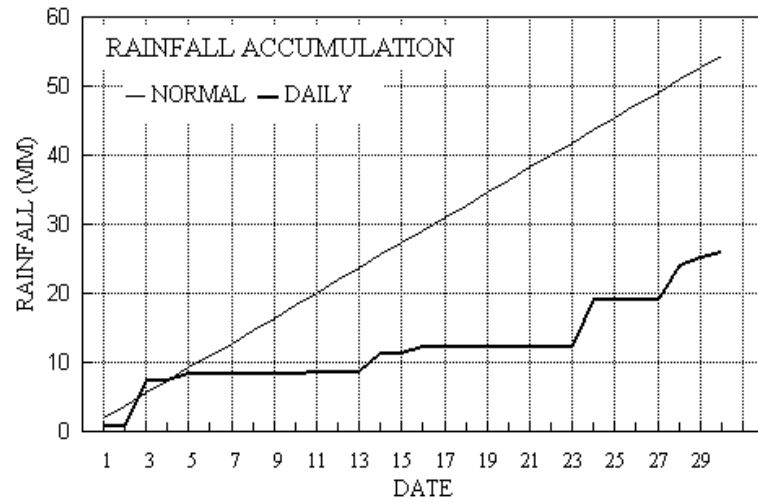
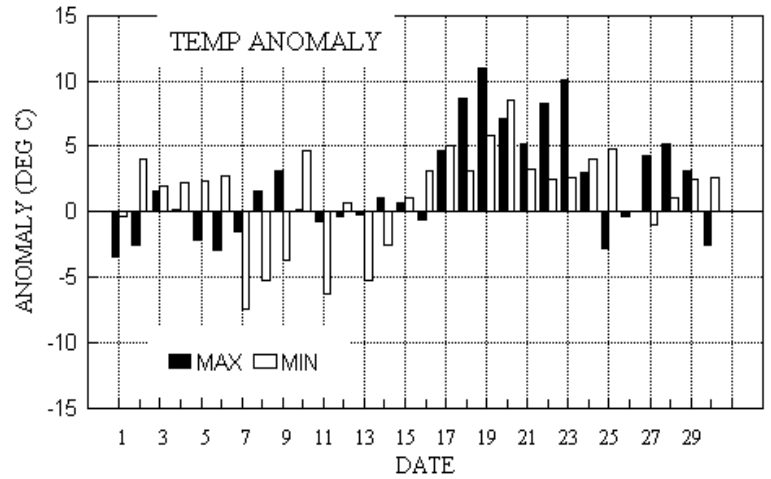
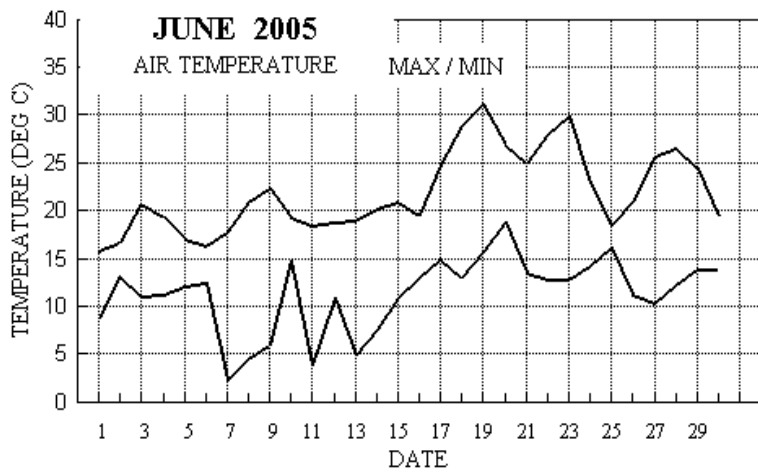
Notes: **Dry and Very Warm with Above Normal Sunshine.**

Temperature. Although the first half of the month was cool, a heatwave from the 17th to the 23rd more than compensated, making this the third consecutive June in the very warm category, (the highest 10 % of ranked values since 1882). The mean temperature, however, is 1.8° below the record set in 1976. Similarly, although the mean maximum ranks 11th highest, it is still 2.8° below the 1976 record. The month's highest temperature, 31.1°, ranks 10th highest in 102 years, and is 4.1° above the median. In contrast, the lowest minimum, 2.2°, is 2.5° below the median and is 8th lowest in 102 years. In further contrast, the highest minimum, 18.8°, is a new record high, with the resulting range of minima, 16.6°, 6.3° above normal. There was 1 ground frost this June, the first since 2001. **Rainfall.** Driest since 2000, with under half the average rainfall, and 19.9 mm below the long-term median. The running deficit for the past 12 months stands at 155.5 mm, or 24 % of the annual average rainfall. The highest daily fall of 6.7 mm is lowest since 2000. A dry spell of 5 days ended on the 10th and another of 7 days ended on the 23rd. Thunder was recorded on the 3rd, 24th and 28th, and was prolonged on the 24th, between 1041 and 1719 GMT. During the storm on the 28th, rainfall rate reached 100 mm/hr at 1845 GMT. **Sunshine.** 22 % above the approximate normal, but lowest in the past 3 years. After a dull start the accumulation of daily sunshine recovered to near normal by the 8th, where it stayed until the 18th, then a sunny spell from the 18th to the 23rd took it to 40 hours above normal where it remained until the end of the month. Overall there were 8 days with <3 hours, 14 with =>6 hours, 10 with =>9 hours, 7 with =>12 hours and 3 with =>15 hours. **Wind.** The mean speed of 5.6 mph is 0.8 mph below average, and equal lowest with 2003 since 1996. The windiest day was the 4th, 11.2 mph, and the month's highest gust of 35 mph was also on that day. The 9th and 23rd were joint least windy days, mean 2.4 mph, and there were 34 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,2 NE,7 E,2 SE,1 S,1 SW,12 W,3 NW,2. **Pressure.** The month's highest pressure, 1038.2 mbar, is highest for June since before 1976, the average highest being 1029 mbar. **Humidity.** The mean relative humidity was 73.9 %, and the lowest value recorded was 26 % on the 23rd. The mean water vapour content per kg of air was 8.9 g at 0900 and 8.7 g at 1500 GMT. **Commentary. From the 1st to the 10th:** Mean anomalies (max, min, rain, sun) were -0.6°, +0.5°, 47 %, 93 %. Temperatures were generally below normal, with daily anomalies of -3.4° for the max on the 1st, the month's coldest day, and -7.5° for the min on the 7th, the month's coldest night. Rain only on the 1st, 3rd and 5th, the 6.7 mm on the 3rd being the month's wettest day. 7 days had <33 % of possible sunshine and 2 had >66 %, although both these sunny days had over 15 hours. Moderate SW'ly winds increased fresh on the 4th, veered moderate NE'ly on 6th, decreased light on 7th, increased moderate on 10th. **From the 11th to the 20th:** Mean anomalies +3.1, +1.3, 22 %, 132 %. Temperatures below normal until the 16th, then a heat wave, with a daily anomaly of +10.9° for the maximum on the 19th, the month's hottest day, followed by an anomaly of +8.5° for the min on the 20th, the month's warmest night. 7 dry days again, with small amounts of rain on the 11th, 14th and 16th. 5 days had <33 % of possible sunshine and 3 had >66 %, with 90 % on the 18th. Light NE'ly winds on 11th backed moderate W'ly on 12th, became fresh SW'ly on 15th, backing light S'ly on 18th, veering NW'ly on 20th. **From the 21st to the 30th:** Mean anomalies +3.3°, +2.2°, 75 %, 143 %. The hot spell continued until the 24th, with an anomaly for the maximum on the 23rd of +10.1°, after which maxima were closer to normal. Minima were generally nearer to normal but above on every day except the 27th. 6 dry days in this, the wettest period of the month, with 6.7 mm on the 24th and 5.0 on the 28th, and thunder on both days. Only 3 days had <33 % of possible sunshine, and 4 had >66 %, with 95 % on the 22nd, the month's sunniest day. Light SW'ly winds to the 23rd, then NE'ly until the 28th, becoming moderate SW'ly on the 29th.

B J Burton. FRMetS.

Hon. Met. Officer to Wokingham Town Council

Wokingham Climatological Data



Month: JUNE 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	15.8	8.7	0.9	4.4	15.0	13.1	0.1	0.0	1022.4	0 0 0 0	0 0 0 0	0 0 0 0	203	5.0	5.1	200	18	1016	200	8	12	2.2	
2	16.7	13.1	0.0	13.1	14.9	13.1	0.0	0.0	1016.0	0 0 0 0	0 0 0 0	0 0 0 0	212	6.6	6.7	200	17	1610	220	9	14	0.0	
3	20.7	11.1	6.7	5.8	14.9	13.2	4.4	0.0	1008.7	0 0 0 0	1 0 0 0	0 0 0 0	231	5.2	5.5	280	26	1530	260	10	15	2.3	
4	19.4	11.3	tr	7.7	15.1	13.3	4.9	0.0	1012.4	0 0 0 0	0 0 0 0	0 0 0 0	251	9.5	9.7	270	30	1311	260	14	13	0.1	
5	17.1	12.1	0.9	9.4	15.1	13.4	0.2	0.0	1018.0	0 0 0 0	0 0 0 0	0 0 0 0	237	5.7	6.1	240	18	1225	230	9	12	2.2	
6	16.4	12.4	tr	11.5	15.1	13.5	0.6	0.0	1021.7	0 0 0 0	0 0 0 0	0 0 0 0	44	4.7	4.8	40	18	1720	40	9	18	0.0	
7	17.8	2.2	0.0	-1.8	14.7	13.5	15.4	0.0	1037.0	0 1 0 0	0 0 0 0	0 0 0 0	72	2.1	3.0	70	14	0902	80	6	08	0.0	
8	20.9	4.5	0.0	1.3	14.9	13.5	15.6	0.0	1037.8	0 0 0 0	0 0 0 0	0 0 0 0	59	1.6	2.3	50	10	1407	60	5	11	0.0	
9	22.4	6.0	0.0	2.9	15.4	13.6	8.9	0.0	1032.8	0 0 0 0	0 0 0 0	0 0 0 0	7	0.9	2.1	350	10	1929	360	5	19	0.0	
10	19.4	14.8	0.0	12.9	15.9	13.7	1.5	0.0	1024.9	0 0 0 0	0 0 0 0	0 0 0 0	28	4.0	4.7	360	17	1007	50	9	16	0.0	
11	18.5	3.8	0.3	0.4	15.5	13.8	8.2	0.0	1020.0	0 0 0 0	0 0 0 0	0 0 0 0	67	2.3	2.7	350	11	1723	60	5	15	0.3	
12	18.8	10.8	tr	10.2	15.7	13.9	3.5	0.0	1010.4	0 0 0 0	0 0 0 0	0 0 0 0	287	4.3	5.5	310	18	1425	300	8	11	0.0	
13	18.9	4.9	0.0	0.0	15.3	13.9	11.8	0.0	1008.3	0 0 0 0	0 0 0 0	0 0 0 0	259	5.7	6.0	260	19	1259	260	10	13	0.0	
14	20.3	7.6	2.5	3.7	15.4	14.0	4.2	0.0	1009.8	0 0 0 0	0 0 0 0	0 0 0 0	229	6.4	6.6	230	22	1211	230	11	12	2.4	
15	20.9	10.9	tr	6.9	15.5	14.0	3.1	0.0	1011.6	0 0 0 0	0 0 0 0	0 0 0 0	210	6.9	7.8	230	26	1612	230	13	16	0.5	
16	19.6	13.0	1.2	12.3	15.6	14.0	1.4	0.0	1019.8	0 0 0 0	0 0 0 0	0 0 0 0	216	7.4	7.5	200	20	1111	200	10	11	0.7	
17	24.8	14.9	tr	14.8	15.8	14.1	4.1	0.0	1027.5	0 0 0 0	0 0 0 0	0 0 0 0	244	4.9	5.1	220	16	0537	230	8	05	0.0	
18	28.9	13.0	0.0	10.1	16.4	14.1	14.9	0.0	1026.0	0 0 0 0	0 0 0 0	0 0 0 0	157	3.2	3.5	170	17	1506	180	7	14	0.0	
19	31.1	15.7	0.0	12.5	17.5	14.3	13.1	0.0	1017.6	0 0 0 0	0 0 0 0	0 0 0 0	167	3.1	3.8	190	17	1338	160	7	12	0.0	
20	26.9	18.8	0.0	15.4	18.4	14.5	9.3	0.0	1015.7	0 0 0 0	0 0 0 0	0 0 0 0	333	3.3	3.9	350	13	1310	360	6	08	0.0	
21	25.0	13.5	0.0	8.6	18.7	14.7	14.0	0.0	1020.1	0 0 0 0	0 0 0 0	0 0 0 0	293	4.1	4.5	280	15	1403	280	7	15	0.0	
22	28.0	12.8	0.0	8.8	18.6	15.0	15.8	0.0	1023.0	0 0 0 0	0 0 0 0	0 0 0 0	227	3.1	3.3	240	14	1330	240	6	14	0.0	
23	29.9	12.9	0.0	8.8	18.9	15.2	11.8	0.0	1019.2	0 0 0 0	0 0 0 0	0 0 0 0	219	1.9	2.1	250	12	1232	210	5	12	0.0	
24	22.8	14.3	6.7	10.6	19.1	15.4	4.2	0.0	1014.2	0 0 0 0	1 0 0 0	0 0 0 0	19	2.1	3.0	320	22	1023	330	8	10	3.3	
25	18.5	16.1	tr	13.1	18.8	15.5	0.1	0.0	1019.2	0 0 0 0	0 0 0 0	0 0 0 0	49	4.8	5.0	40	16	1738	50	7	17	0.0	
26	20.9	11.3	0.0	9.2	18.1	15.7	7.1	0.0	1027.2	0 0 0 0	0 0 0 0	0 0 0 0	50	5.3	5.5	40	15	0023	50	8	12	0.0	
27	25.6	10.3	0.0	7.4	17.9	15.8	14.8	0.0	1024.0	0 0 0 0	0 0 0 0	0 0 0 0	55	3.7	3.8	30	13	1122	40	6	11	0.0	
28	26.5	12.3	5.0	8.8	18.3	15.8	6.5	0.0	1016.9	0 0 0 0	1 0 0 0	0 0 0 0	73	5.7	5.9	80	24	1559	80	11	11	0.5	
29	24.4	13.8	1.1	11.5	18.1	15.9	5.9	0.0	1009.1	0 0 0 0	0 0 0 0	0 0 0 0	225	4.0	5.0	240	18	1347	230	10	16	0.5	
30	19.3	13.9	0.8	10.6	18.4	15.9	0.2	0.0	1006.4	0 0 0 0	0 0 0 0	0 0 0 0	226	5.3	5.6	260	19	1706	210	9	13	0.8	
Total			26.1				205.6	0.0															15.8
Mean	21.9	11.4		8.4	16.6	14.3	6.85	0.0	1019.3					233	1.5	4.9							
Anom	+2.1	+1.3	48%		+0.3	+0.2	122%																+2.3
Daily mean		16.6																					
Anom		+1.6																					

Number of days with:

Air frost = 0 Ground frost = 1 Nil sun = 1
Snow falling = 0 Snow lying = 0 Thunder = 3
Hail=>5mm = 0 Hail<5mm or ice = 0 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 JUNE 2005

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NCh	shs	NCh	shs	Date	Remarks
1	80	8	19	07	12	14.5	10.9	79	8.1	1022.4	8 010 03	6	2	7	5	5	7	/	81620	85625	88360						1	3Sc56
2	72	8	21	06	12	15.5	13.6	88	9.7	1016.0	8 002 02	2	2	8	6	4	/	/	88710								2	
3	80	5	22	06	11	16.2	11.2	72	8.3	1008.7	8 018 01	2	2	1	1	5	8	2	81820	83070							3	1Ac58 2Ac62 COTRA Cu hum Ac cas
4	83	7	25	09	21	15.2	10.1	71	7.7	1012.4	1 015 03	1	1	7	8	5	/	/	83825	87645							4	Cu med
5	82	8	26	08	15	15.5	10.2	71	7.7	1018.0	1 004 03	2	2	4	8	5	0	7	83822	88275							5	2Sc56 COTRA Cu med
6	58	8	06	05	13	13.5	12.0	91	8.7	1021.7	2 031 50	5	2	8	5	3	/	/	84709	87615	88620						6	
7	86	6	07	06	11	12.0	5.1	63	5.3	1037.0	1 014 03	1	1	2	1	6	0	1	82835	86080							7	COTRA Cu hum
8	82	5	06	03	06	14.6	7.3	62	6.2	1037.8	0 000 03	1	1	1	1	6	0	1	81830	85080							8	COTRA Cu hum
9	82	1	30	03	07	17.6	8.1	54	6.6	1032.8	8 009 02	0	0	1	0	8	3	1	81357								9	1Ci80
10	61	7	36	04	09	17.8	13.4	75	9.5	1024.9	8 004 02	2	2	6	8	5	3	/	84825	83650	86358						10	Cu med
11	86	4	07	04	07	13.4	6.6	63	6.0	1020.0	8 008 01	1	1	1	1	6	3	1	81830	84075							11	1Ac65 COTRA Cu hum. Halo 22 part
12	77	3	31	08	16	16.2	7.9	58	6.7	1010.4	6 014 03	1	1	3	2	6	0	0	83832								12	Cu med
13	88	1	26	07	14	14.8	5.1	52	5.5	1008.3	6 005 03	0	0	1	1	6	0	2	81838								13	1Ci75 Cu hum
14	80	6	23	07	15	15.6	9.9	69	7.6	1009.8	1 014 03	1	1	5	8	5	0	1	81825	85640							14	2Ci78 Cu med
15	58	8	16	07	16	13.2	12.3	94	8.9	1011.6	8 014 58	6	5	8	5	3	/	/	82708	83615	88635						15	4Sc25
16	58	8	20	08	16	15.5	12.8	84	9.2	1019.8	2 011 60	6	2	8	5	4	/	/	81712	85615	88622						16	
17	70	8	25	05	10	19.5	17.6	89	12.4	1027.5	2 023 50	5	2	8	5	4	/	/	85710	88615							17	
18	70	2	15	04	10	24.5	19.2	73	13.9	1026.0	8 004 03	0	0	2	1	5	0	1	82825								18	1Ci80 COTRA Cu hum
19	78	4	16	05	08	27.0	19.3	63	14.1	1017.6	7 007 03	1	1	1	0	9	8	1	81365	84081							19	1Ac68 COTRA Ac cas
20	82	7	35	06	12	22.3	14.2	60	10.1	1015.7	1 009 01	2	2	5	0	9	8	1	81358	84365	86080						20	COTRA Ac cas
21	88	7	34	05	10	20.0	10.9	56	8.1	1020.1	1 008 03	1	1	1	0	9	4	1	81365	87078							21	COTRA
22	82	3	19	04	07	21.8	14.9	65	10.5	1023.0	4 000 03	0	0	1	1	6	0	1	81830	83080							22	COTRA Cu hum
23	86	2	20	03	06	23.8	12.8	50	9.2	1019.2	8 003 02	0	0	0	0	9	0	1	82080								23	COTRA
24	65	6	02	06	16	22.0	14.8	64	10.5	1014.2	0 007 01	1	1	4	0	8	8	2	81357	84366							24	4Ci78 1Ac cas
25	40	8	05	06	12	17.1	15.2	89	10.8	1019.2	1 024 05	2	2	8	6	3	/	/	87708	88710							25	
26	80	8	06	06	12	14.1	10.1	77	7.5	1027.2	1 005 02	2	2	8	5	5	/	/	82620	88622							26	
27	84	5	05	05	10	17.8	10.8	64	8.0	1024.0	8 002 03	1	1	2	0	9	8	1	82360	85080							27	COTRA Ac cas U/a cont
28	82	2	09	09	18	20.4	11.8	58	8.6	1016.9	6 016 01	1	1	1	0	9	3	1	81365								28	1Ci75 1Ci80 COTRA
29	40	8	25	05	10	17.2	15.3	89	11.0	1009.1	1 002 05	2	2	8	5	3	/	/	86708	88615							29	
30	62	8	23	07	18	16.7	15.0	90	10.7	1006.4	2 002 21	6	2	8	5	3	/	/	86708	88615							30	

Mean vis = 32.1 km
 Mean cloud = 5.7 71%
 Mean wind speed = 5.8 kt
 Mean gust = 12 kt
 Mean TT = 17.5 C
 Mean TdTd = 11.9 C
 Mean RH = 71.1 %
 Mean r = 8.9 g/kg
 Mean PPP = 1019.3 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 JUNE 2005

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppwwW1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks				
1	50	8	20	08	16	15.0	14.2	95	10.1	1019.3	7	020 58	6	5	8	5	2	/ /	82705	86708	88618	1	
2	80	7	22	09	16	16.4	12.0	75	8.8	1014.2	7	011 02	2	2	7	5	4	/ 8	87618			2	/Cs75
3	72	7	22	07	13	17.3	11.9	70	8.7	1005.9	8	011 15	2	2	7	8	5	7 /	81825	86656	87360	3	2Sc40 Cu med jp NW&W
4	86	7	26	10	24	17.6	8.5	55	6.9	1013.4	3	008 02	2	2	7	8	6	/ /	82840	86656		4	2Sc50
5	86	7	26	08	17	16.5	10.7	69	8.0	1018.1	0	000 02	2	2	7	8	5	7 1	83828	85650	86360	5	/Ci75 Cu med
6	82	7	06	06	13	16.2	8.2	59	6.7	1026.2	1	014 01	2	2	7	8	6	/ /	82832	87640		6	Cu hum
7	84	6	07	05	12	17.5	3.3	39	4.7	1036.1	7	007 03	1	1	1	4	7	0 1	81650	86080		7	COTRA U/a cont
8	84	6	04	03	10	20.5	2.7	31	4.5	1036.0	7	010 02	1	1	0	0	9	0 1	86080			8	COTRA
9	80	7	02	03	08	21.3	9.9	48	7.5	1029.6	7	017 03	1	1	7	8	7	/ /	82850	87656		9	Absent Cld&vv est
10	80	7	05	06	12	17.6	11.6	68	8.4	1023.7	7	009 01	2	2	7	8	5	/ /	85825	87630		10	Cu hum
11	78	6	04	04	08	17.5	6.9	50	6.2	1017.1	6	010 02	1	1	6	8	6	3 /	83840	85656		11	1Ac59 Cu med
12	80	8	32	06	18	15.7	9.1	65	7.3	1008.7	5	010 15	2	2	8	8	6	/ /	82835	83645	88656	12	Cu med jpW
13	84	6	25	08	18	17.6	5.5	45	5.7	1006.8	7	006 03	1	1	6	4	7	0 0	81850	85650		13	
14	83	6	23	10	20	18.9	8.1	49	6.7	1011.2	3	010 02	2	2	6	8	6	0 0	82845	85656		14	Cu med
15	80	6	22	12	24	19.9	10.1	53	7.7	1011.7	3	010 15	1	1	6	8	6	0 0	84845	83650		15	Cu med jpNW
16	60	8	22	08	16	18.5	16.9	90	12.0	1020.6	3	007 50	6	5	8	5	3 / /	86708	88612		16		
17	82	7	25	05	11	24.2	17.9	68	12.7	1027.7	1	002 02	2	2	7	8	5	/ /	81828	87632		17	Cu hum
18	84	1	19	08	16	28.4	16.7	49	11.8	1022.7	8	020 01	0	0	1	4	6	0 0	81843			18	1Sc45
19	84	4	17	06	14	29.8	16.9	46	12.0	1015.1	7	010 03	0	0	1	1	7	3 3	81850	83075		19	2Ac68 1Ci80 Cb top 180km NW Iridescence
20	84	7	01	03	09	26.5	12.5	42	9.0	1015.8	1	004 03	1	1	1	1	7	3 1	81856	87080		20	1Ac65 1Ci72 COTRA Cu hum U/a cont
21	84	8	26	07	15	24.4	11.4	44	8.3	1020.3	1	001 03	2	2	1	4	7	0 7	81850	88280		21	1Sc56 1Ci75 COTRA U/a cont
22	86	3	24	05	12	27.4	13.7	43	9.7	1020.9	8	010 02	0	0	1	1	7	0 1	81856	83080		22	COTRA Cu hum
23	86	6	24	05	10	28.1	12.0	37	8.7	1016.8	8	004 03	1	1	1	0	9	8 2	81364	86075		23	COTRA Ac cas
24	62	7	05	06	14	18.7	17.9	95	12.9	1013.0	8	026 95	9	1	3	9	7	8 2	83950	84363		24	1Ac58 /Ac66 /Ci72 Cb N-E-S vv 40kW
25	62	8	05	06	12	18.0	14.9	82	10.5	1021.6	1	010 02	2	2	8	5	4 / /	86615	88618		25		
26	81	4	05	06	14	20.3	10.9	55	8.0	1025.3	8	010 01	1	1	1	5	6	0 1	81632	84080		26	COTRA U/a cont
27	84	2	07	04	12	24.5	12.4	47	8.9	1021.0	6	009 03	0	0	2	0	9	8 0	82360			27	1Ac63 Ac cas
28	80	7	08	10	19	24.7	12.7	47	9.2	1012.3	8	027 14	1	1	7	0	8	8 /	82360	86365		28	Ac cas vir
29	82	6	22	11	18	23.9	11.8	47	8.7	1006.7	7	017 03	2	2	2	9	6	3 3	81940	83363		29	2Cu45 2Ci75 Cb N
30	68	8	23	06	14	18.2	13.3	73	9.6	1006.8	2	001 15	2	2	7	8	5	7 /	83825	85640	88358	30	Cu med jpNW vv40k ex p

Mean vis = 37.6 km
 Mean cloud = 6.2 78%
 Mean wind speed = 6.7 kt
 Mean gust = 15 kt
 Mean TT = 20.7 C
 Mean TdTd = 11.5 C
 Mean RH = 57.9 %
 Mean r = 8.7 g/kg
 Mean PPP = 1018.2 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
 JUNE 2005

Date	Mean		Max		Min		Mean		Max		Min		Missing RH N >0	Number of minutes RH in given ranges						
	TT	TT	Time	TT	Time	RH	RH	Time	RH	Time	RH	Time		RH	0-20	20-40	40-60	60-80	80-90	90-95
01	13.5	15.7	17:36	9.3	03:47	89.0	95.4	15:06	74.7	09:14			0	0	0	132	446	854	8	0
02	14.9	16.9	15:18	13.0	23:02	85.8	93.8	05:34	72.6	17:02			0	0	0	254	752	434	0	0
03	14.2	20.7	12:08	11.1	21:22	83.9	97.7	18:05	54.2	12:01			0	0	146	320	191	532	251	0
04	14.8	19.4	12:39	11.5	00:00	72.3	94.8	03:35	46.8	13:37			0	0	434	579	76	351	0	0
05	14.2	17.1	12:45	12.1	02:25	81.3	98.1	23:58	59.9	12:53			0	0	2	530	627	102	177	2
06	12.8	16.4	14:57	6.3	23:10	82.1	99.1	05:38	55.3	16:10			0	0	94	513	236	138	87	372
07	12.0	17.8	15:27	3.9	04:15	65.6	93.9	04:27	37.7	13:28			0	114	541	287	273	225	0	0
08	14.6	20.9	14:11	5.5	04:12	61.0	94.6	05:33	28.3	15:08			0	511	204	295	72	358	0	0
09	16.5	22.4	12:15	7.7	03:48	63.9	91.7	04:56	33.3	12:20			0	89	635	346	177	193	0	0
10	15.5	19.4	10:00	8.1	23:53	76.1	86.3	05:02	62.5	16:10			0	0	0	949	491	0	0	0
11	12.6	18.5	12:16	5.1	03:56	69.6	92.6	04:07	43.1	11:36			0	0	510	499	272	159	0	0
12	13.9	18.8	13:32	9.2	23:59	69.2	92.4	04:08	45.1	10:03			0	0	351	729	256	104	0	0
13	13.1	18.9	13:16	5.7	03:46	64.6	91.4	04:04	36.8	12:36			0	54	592	408	280	106	0	0
14	14.3	20.3	13:34	8.0	03:09	70.4	93.2	03:20	40.3	13:41			0	0	442	455	298	245	0	0
15	15.3	20.9	14:29	11.4	03:11	79.6	98.2	11:35	46.5	14:15			0	0	279	252	435	237	236	1
16	16.8	19.5	18:05	13.8	04:31	88.0	95.7	12:12	75.2	07:15			0	0	0	86	980	347	27	0
17	20.4	24.7	15:36	16.7	03:35	82.9	94.8	23:49	64.6	15:38			0	0	0	556	330	554	0	0
18	22.6	28.9	14:26	14.1	04:31	73.0	96.7	06:05	47.0	15:26	31		0	0	497	339	162	79	332	0
19	24.7	31.0	13:08	16.5	04:11	65.2	93.1	04:43	43.4	13:07			0	0	667	369	247	157	0	0
20	22.5	26.9	15:10	17.5	23:55	66.6	95.2	05:09	41.1	14:52			0	0	563	544	191	126	16	0
21	19.8	25.0	14:31	13.5	05:01	62.7	84.4	04:21	36.4	13:19			0	70	586	625	159	0	0	0
22	21.5	28.0	15:36	13.5	04:08	66.0	93.5	04:41	42.2	15:16			0	0	635	386	234	185	0	0
23	23.0	29.9	12:37	14.2	03:59	56.3	91.0	04:09	25.6	12:19			0	516	310	293	257	64	0	0
24	19.1	23.5	08:58	15.9	03:33	83.2	98.0	23:59	52.0	07:38			0	0	104	425	316	141	454	0
25	16.9	18.5	11:24	14.2	23:53	90.2	99.5	05:44	79.6	23:52			0	0	0	18	766	127	121	408
26	16.0	21.0	16:11	11.5	01:48	73.1	90.6	02:12	52.4	15:16			0	0	319	572	524	25	0	0
27	18.8	25.6	14:39	10.6	04:22	66.2	93.9	04:33	42.0	16:18			0	0	618	411	112	299	0	0
28	18.5	26.6	13:07	12.8	03:57	65.9	97.4	23:54	35.9	13:12			0	71	502	546	20	87	214	0
29	18.4	24.3	14:10	13.9	00:21	78.2	97.8	01:01	45.3	14:58			0	0	369	294	160	148	469	0
30	16.2	19.2	11:16	12.7	23:59	86.2	96.8	07:29	66.2	13:05			0	0	0	388	318	597	137	0
Mean	16.9	21.9		11.3		73.9	94.4		49.5				0.00	0.79	5.22	6.89	5.37	3.87	1.41	0.44
Hi	24.7	31.0		17.5		90.2	99.5		79.6	Tot	31		0	1425	9400	12400	9658	6974	2529	783
Lo	12.0	15.7		3.9		56.3	84.4		25.6											

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.