

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 2004

Temperature (°C / °F)			Anomaly	Rank, in the past 123 years			
Mean maximum	21.8	71.2	+2.0	15 th highest			
Mean minimum	11.3	52.3	+1.2	7 th highest			
Daily mean	16.6	61.9	+1.6	8 th highest			
Highest maximum	30.0	86.0	on 8 th	Lowest maximum	16.1	61.0	on 23 rd
Highest minimum	16.1	61.0	on 5 th	Lowest minimum	5.6	42.1	on 21 st
Mean grass minimum	8.4	47.1		Lowest grass minimum	1.6	34.9	on 19 th
Mean earth @30 cm	17.1	62.8	+0.8	Earth @100 cm	15.1	59.2	+1.0
Frost duration (hrs)	0.0			Rain duration (hrs)	16.1		
Rainfall total (mm / in)	29.8	1.17	55 %	36 th lowest			
Highest daily fall	13.4	0.53	on 22 nd				
Number of: Dry days (<0.2mm)	22	Wet days (>0.9mm)	5	days ≥5mm	3		
Sunshine total (hrs) 206.6	Daily mean	6.89		Sunniest day	15.1	on 13 th	
N ^o days with: Air frost 0	Ground frost 0	Snow falling 0	Snow lying 0				
Thunder 1	Hail ≥5mm 0	Small hail/ice 1	Fog @09 0	Nil sun	1		
Air pressure MSL : Mean @09 GMT (mbar/in)	1018.0	+1.0	30.06				
Absolute highest	1032.9		30.50	on 13 th			
Absolute lowest	990.9		29.26	on 23 rd			

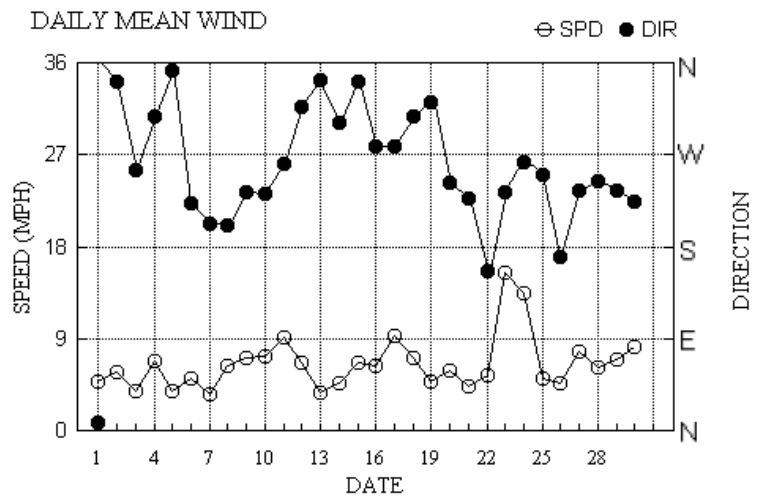
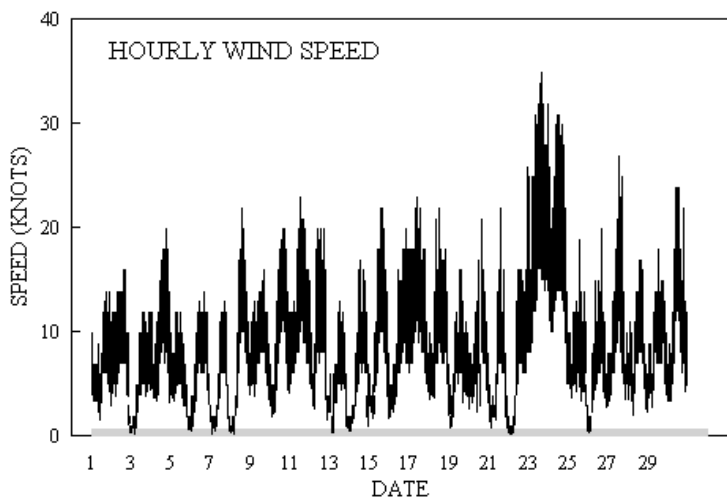
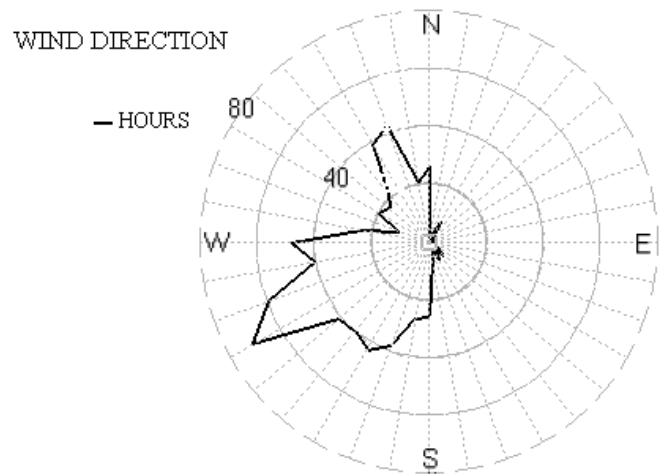
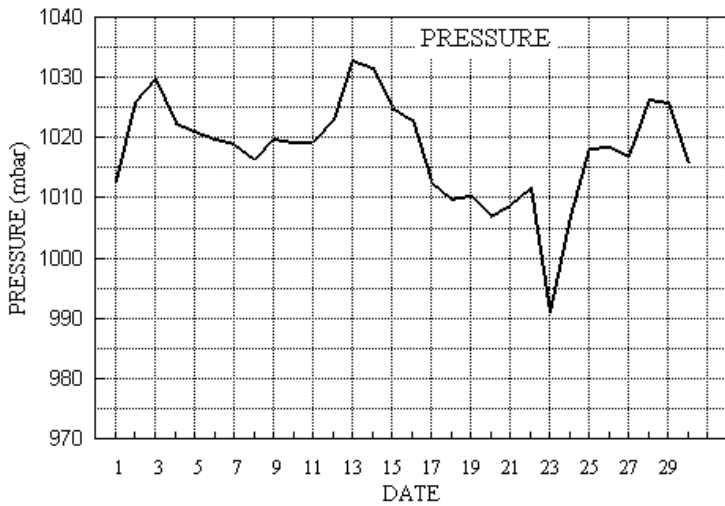
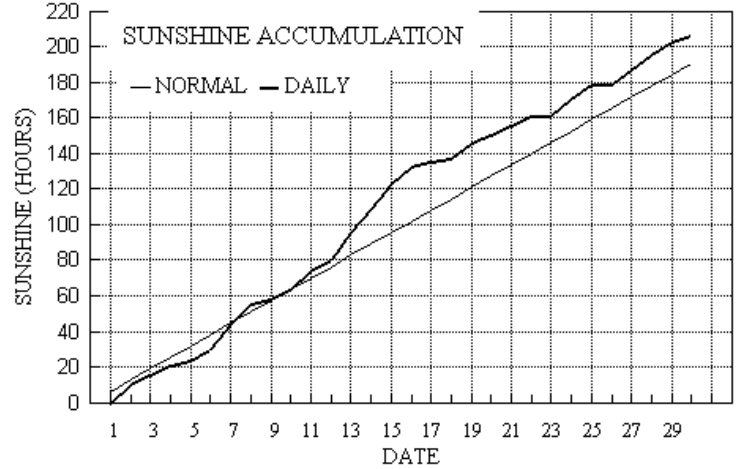
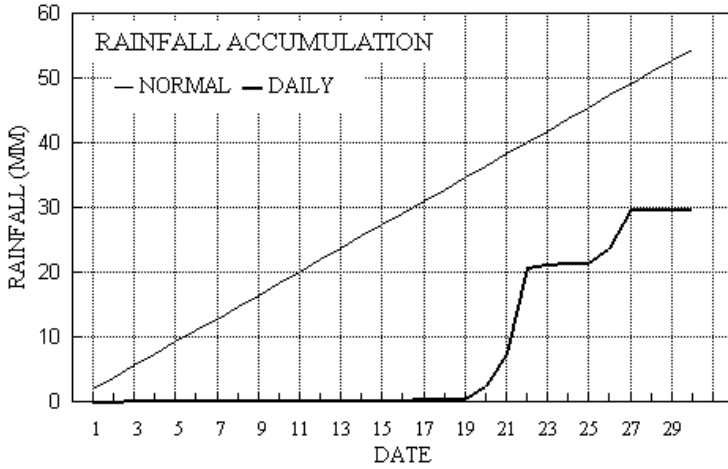
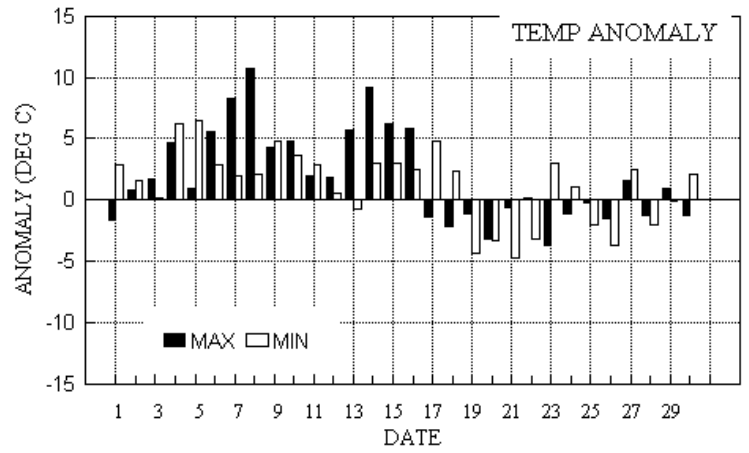
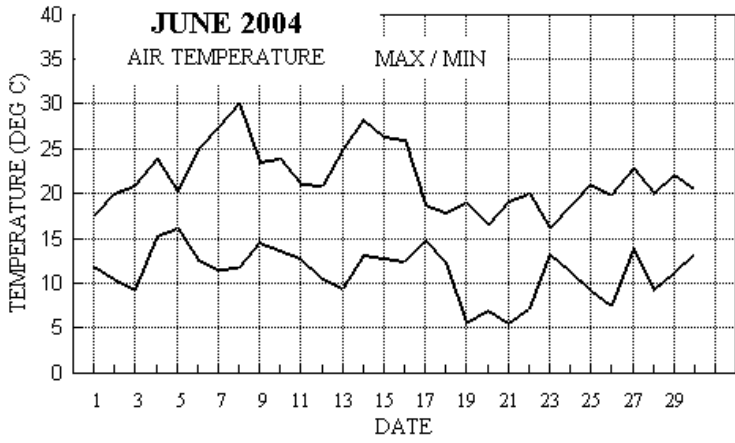
Anomaly = departure from 1971 to 2000 average.

Notes: **Warm.** **Dry.** **Near Normal Sunshine.**

Temperature. The 1st half of June had plenty of fine, dry and sometimes hot days, contrasting with the 2nd half which became unsettled and cooler, sometimes wet and windy. The mean temperature lies well into the top 10% of values, 1.2° above the long-term median, and apart from last June, is highest since 1976. The mean maximum is 1.7° above the median, but 2.9 below the record set in 1976, while the mean minimum is 1.4° above the median, and 0.8° below the record, also set in 1976. The highest maximum, 30.0° on the 8th, is 3.0° above the median. A temperature of 30° or more has been recorded in 19 of the past 101 Junes, while at the other end of the scale, June 1972 had a maximum value of just 19.7°. The lowest minimum is 0.9° above the median. There was no ground frost this June, the last one was in 2001, and there have been 8 others in the past 25 years. The mean earth temperature at 1 metre depth is highest since 1993. **Rainfall.** A dry June overall, driest since 2000. The period 1st to the 19th produced only 0.5 mm of rain, with a 16 day dry spell ending on the 16th. The highest daily fall of 13.4 mm is close to the median. There were 3 more dry days than normal. Thunder occurred on the 27th, and there was a fall of small hail stones on the 20th. **Sunshine.** The total of 206.6 hours this June is close to normal. Overall there were 6 days with <3 hours, 16 with =>6 hours, 10 with =>9 hours, 4 with =>12 hours and 1 with =>15 hours. **Wind.** The mean wind speed this month was 6.6 mph, close to normal. The 23rd was the windiest day, mean 15.5 mph, unusually high for June, and windiest June day since 3rd in 1994. The highest gust, also on the 23rd was 40 mph, but this is only highest since 2000. The 7th was the least windy day, 3.5 mph, and there were 21 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,5 NE,0 E,0 SE,1 S,3 SW,10 W,6 NW,5. **Humidity.** The overall mean relative humidity was 72.3 %, and the month's lowest value was 29 % on the 14th. The mean amount of water vapour per kg of air was 8.7 g at 0900 GMT and 8.6 g at 1500 GMT. **Pressure.** The month's highest pressure, 1032.9 mbar, is highest for June since 1996, and the lowest value of 990.9 mbar is lowest for the month since 1997. **Commentary.** From the 1st to the 10th: After a cool start we had a short-lived heat wave, with an anomaly of +10.7° for the maximum on the 8th, the month's hottest day. Night time values had anomalies over +6° on the 4th and 5th, this latter the month's warmest night. The resulting 10 day mean anomalies were +4.0° and +3.3° for max and min resp. 10 dry days, just 0.1 mm in total. Rather variable sunshine, nil on the 1st and over 9 hours on the 2nd, 7th and 8th, with the 10 day mean exactly normal. Mainly light winds were from between W and N, becoming SW'ly on the 6th and increasing moderate on the 7th. From the 11th to the 20th: We had another short-lived heat wave until the 16th, with the anomaly reaching +9.1° for the maximum on the 14th, but becoming cooler on the 17th, the anomaly for maximum down to -3.2° on the 20th. The 10 day mean anomalies held up at +2.3° and +1.1° for max and min resp. Dry until the 16th, then 0.4 mm breaking the dry spell, and a further 1.8 mm on the 20th bringing the 10 day total to 12 % of normal. 4 days had over 9 hours of sunshine, and the 10 day mean was 136% of normal. W or NW winds were generally moderate, but fell light on the 13th and 19th, and backed SW'ly on 20th. From the 21st to the 30th: Temperatures were generally near or below normal for this period, with anomalies for daily maxima ranging from -3.7° on the 23rd, the month's coldest day, and +1.5° on the 27th. For minima the anomaly was -4.7° on 21st and +3.0 on the 23rd, giving 10 day mean anomalies of -0.7° for both max and min. Only 4 dry days, and a 10 day total 151 % of normal. Only 2 days had 9 or more hours of sunshine, and the 10 day mean was only 87 % of normal. Moderate SW'ly winds backed Sly on 22nd, became strong SW'ly on 23rd and fresh W'ly on 24th, dropping light for 25th and 26th, then moderate or fresh SW'ly for the remainder.

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

Wokingham Climatological Data



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: JUNE 2004

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	17.6	12.0	tr	11.7	16.0	13.9	0.0	0.0	1012.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	8 2.4 4.2	330 14 2116	340 6 16	0.0	
2	20.0	10.6	0.0	7.6	15.9	14.0	10.6	0.0	1025.7	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	342 4.9 5.0	340 16 1539	340 7 12	0.0	
3	20.9	9.3	0.1	5.3	16.1	14.0	5.5	0.0	1029.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	255 2.7 3.4	260 12 1520	250 7 15	0.2	
4	23.9	15.3	0.0	14.2	16.4	14.1	5.0	0.0	1022.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	308 5.5 5.9	320 20 1845	320 10 18	0.0	
5	20.2	16.1	0.0	15.3	16.8	14.1	2.9	0.0	1021.1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	352 2.7 3.4	350 12 0810	360 6 08	0.0	
6	24.9	12.6	0.0	9.0	16.9	14.3	6.0	0.0	1019.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	223 4.2 4.5	220 14 1623	220 7 16	0.0	
7	27.5	11.6	0.0	8.4	17.0	14.4	14.1	0.0	1019.1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	202 2.8 3.0	220 13 1600	200 7 17	0.0	
8	30.0	11.8	0.0	8.6	17.7	14.5	11.4	0.0	1016.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	201 4.9 5.5	220 22 1416	200 12 15	0.0	
9	23.5	14.5	tr	12.3	18.1	14.7	2.9	0.0	1019.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	234 6.0 6.1	230 16 1600	240 9 16	0.0	
10	24.0	13.7	0.0	10.1	18.1	14.9	5.6	0.0	1019.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	232 6.1 6.3	240 20 1616	240 11 14	0.0	
11	21.1	12.9	0.0	10.6	17.9	15.0	10.2	0.0	1019.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	262 7.5 8.0	260 23 1200	270 11 13	0.0	
12	21.0	10.6	0.0	6.7	17.5	15.1	6.1	0.0	1022.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	317 5.2 5.8	330 20 0851	320 9 08	0.0	
13	24.9	9.4	0.0	4.8	17.3	15.3	15.1	0.0	1032.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	344 3.0 3.2	20 13 1246	340 6 10	0.0	
14	28.3	13.1	0.0	9.4	17.9	15.4	13.3	0.0	1031.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	301 3.5 4.1	330 17 1343	320 8 12	0.0	
15	26.4	12.9	0.0	8.3	18.3	15.5	14.5	0.0	1024.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	342 5.2 5.8	360 22 1359	350 11 15	0.0	
16	26.0	12.4	0.0	7.6	18.5	15.5	9.5	0.0	1022.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	278 4.7 5.5	260 20 2050	260 10 18	0.0	
17	18.8	14.7	0.4	11.4	18.5	15.6	3.0	0.0	1012.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	278 7.7 8.1	280 23 0843	300 11 08	0.2	
18	18.0	12.3	0.0	12.0	17.8	15.7	1.5	0.0	1009.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	307 5.2 6.1	300 22 1238	300 9 12	0.0	
19	19.0	5.6	tr	1.6	17.0	15.8	8.9	0.0	1010.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	321 3.8 4.2	320 16 1303	280 7 13	0.0	
20	16.6	7.0	1.8	2.8	16.8	15.8	4.8	0.0	1006.9	0 0 0 0	0 0 1 0	0 0 1 0	0 0 1 0	243 4.9 5.1	240 21 1506	240 9 15	0.7	
21	19.2	5.6	5.0	1.8	16.4	15.7	5.3	0.0	1008.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	227 3.6 3.8	240 22 1440	240 9 14	1.2	
22	20.0	7.1	13.4	4.4	16.4	15.6	5.0	0.0	1011.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	156 4.3 4.7	200 26 2344	180 11 23	8.7	
23	16.1	13.3	0.5	11.5	16.9	15.6	0.1	0.0	991.0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	234 12.7 13.5	250 35 1514	250 17 15	1.0	
24	18.7	11.4	0.2	9.0	16.1	15.6	9.5	0.0	1006.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	263 11.5 11.7	270 31 1308	270 15 15	0.1	
25	21.1	9.3	tr	5.7	16.1	15.5	8.1	0.0	1018.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	250 4.0 4.4	250 19 1314	270 6 07	0.1	
26	19.8	7.6	2.2	4.1	16.4	15.5	0.1	0.0	1018.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	170 3.8 4.0	180 20 1555	180 7 15	2.4	
27	22.8	13.8	6.1	12.8	16.5	15.5	7.8	0.0	1016.9	0 0 0 0	1 0 0 0	0 0 0 0	0 0 0 0	235 6.3 6.7	200 27 1357	220 13 13	1.3	
28	20.0	9.3	0.0	5.2	16.7	15.5	9.0	0.0	1026.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	245 5.0 5.3	250 17 1434	260 8 14	0.0	
29	22.2	11.2	0.0	7.4	16.8	15.5	6.8	0.0	1025.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	235 5.7 6.0	250 18 1346	210 9 18	0.0	
30	20.6	13.4	0.1	12.4	17.1	15.5	4.0	0.0	1015.7	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	225 6.8 7.0	220 24 0934	220 12 10	0.2	
Total			29.8				206.6	0.0										16.1
Mean	21.8	11.3		8.4	17.1	15.1	6.89	0.0	1018.0					259 3.7 5.7				
Anom	+2.0	+1.2	55%	+0.8	+1.0	108%		+1.0										
Daily mean		16.6																
Anom		+1.6																
Number of days with:																		
Air frost = 0																		
Ground frost = 0																		
Nil sun = 1																		
Snow falling = 0																		
Snow lying = 0																		
Thunder = 1																		
Hail=>5mm = 0																		
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 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 2004

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	hCr	Cf	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	60	8	07	02	07	14.7	14.0	96	10.0	1012.8	3	002	50	6	5	8	7	3	/	/	81704	87706	88709		1			
2	72	7	34	06	14	15.1	10.8	75	8.0	1025.7	1	010	01	2	2	1	1	5	0	1	81820	87075			2	COTRA Cu hum U/a cont		
3	78	5	34	03	05	17.5	10.4	63	7.8	1029.8	8	002	02	1	1	3	0	9	7	1	81358	83360			3	3Ci78 COTRA		
4	82	7	36	04	10	20.0	15.1	73	10.7	1022.4	8	008	03	2	2	3	2	5	0	1	83825	86078			4	2Cc70 COTRA Cu med		
5	78	8	01	05	12	17.0	12.5	75	9.0	1021.1	1	007	02	2	2	8	8	5	/	/	82820	88625			5	Cu hum		
6	80	5	26	06	10	20.2	15.3	74	10.9	1019.8	0	001	03	1	1	3	8	5	8	0	81820	83650			6	3Ac63 Ac cas virga Absent		
7	68	5	10	03	05	21.7	15.2	66	10.7	1019.1	0	001	01	1	1	1	0	9	8	1	81362	85078			7	COTRA Ac cas		
8	67	6	17	05	10	25.5	18.0	63	12.6	1016.4	7	006	02	2	2	0	0	9	0	1	86078				8	COTRA		
9	62	7	24	07	12	18.5	13.8	74	9.8	1019.9	0	005	02	2	2	1	1	5	7	/	81820	87364			9	2Ac62 Cu hum		
10	64	7	21	08	13	17.8	15.1	84	10.7	1019.3	0	005	01	6	2	4	5	4	7	/	82712	83650	87360		10			
11	82	6	25	09	18	17.7	9.8	60	7.5	1019.3	1	006	03	1	1	3	2	6	0	1	83832	85078			11	COTRA Cu med Halo 22° part		
12	86	3	33	10	20	16.8	9.1	61	7.1	1022.9	1	011	03	1	1	3	8	5	0	0	83828				12	1Sc45 Cu med		
13	84	2	35	04	07	19.0	12.6	67	9.0	1032.9	2	007	03	0	0	1	1	5	0	1	81828				13	2Ci80 COTRA Cu hum		
14	84	7	32	05	09	23.0	16.5	67	11.6	1031.6	8	004	03	2	2	1	1	5	0	2	81825	87075			14	1Ci70 COTRA Cu hum		
15	86	1	34	05	10	22.5	12.4	53	8.9	1024.9	7	003	03	0	0	0	0	9	0	2	81075				15			
16	83	7	29	04	08	18.1	13.0	72	9.3	1022.9	8	003	01	2	2	7	8	5	/	/	81822	87635			16	Cu hum		
17	84	5	29	10	23	18.1	8.7	54	7.0	1012.8	6	001	01	1	1	4	4	6	0	1	81838	84640			17	3Ci80 COTRA Cu hum		
18	72	7	31	04	21	13.1	11.0	87	8.2	1009.9	5	000	80	8	2	7	8	4	/	/	81712	83635	87645		18	1Cu15		
19	86	3	34	06	11	13.7	4.7	54	5.3	1010.5	0	005	03	0	0	2	2	6	0	1	82832				19	2Ci78 COTRA Cu med		
20	84	7	22	05	10	14.0	7.1	63	6.3	1006.9	8	006	15	2	2	3	8	6	3	1	83830	86075			20	1Sc56 1Ac58 COTRA Cu med jp W Halo 22°		
21	84	5	23	03	06	15.0	8.3	64	6.8	1008.9	2	012	80	8	1	1	8	5	8	1	81828	83360			21	1Sc56 1Ac62 2Ci75 COTRA Cu med Halo 22° part		
22	82	3	19	05	10	17.0	10.5	65	7.9	1011.6	8	002	03	1	1	1	2	5	4	1	81828	83080			22	1Ac62 COTRA Cu med		
23	58	8	22	13	31	14.5	12.9	90	9.5	991.0	6	015	62	6	2	7	5	4	2	/	82712	87615	88525		23			
24	82	5	27	14	24	15.0	6.6	57	6.1	1006.9	1	013	03	1	1	5	8	6	0	0	85832				24	1Sc45		
25	82	7	28	05	10	15.6	10.1	70	7.7	1018.3	1	016	03	1	1	7	8	5	/	/	82825	87656			25			
26	65	8	17	07	15	14.8	12.1	84	8.7	1018.4	5	002	60	6	2	8	0	8	7	/	86357	88460			26			
27	81	4	24	08	14	19.5	12.6	64	9.1	1016.9	1	009	03	1	1	4	8	5	0	0	84828				27	1Sc35 Cu med		
28	81	3	25	06	11	17.5	11.5	68	8.3	1026.4	1	008	03	0	0	2	2	5	0	1	82828				28	2Ci78 COTRA Cu med		
29	78	5	26	07	13	19.0	13.0	68	9.3	1025.8	3	001	03	1	1	3	2	5	0	1	83825	83075			29	Cu med		
30	82	7	21	10	18	18.3	11.4	64	8.4	1015.7	8	018	03	2	2	1	8	5	7	2	81828	83359	87361		30	1Sc35 3Ci75 Cu hum pil		

Mean vis = 34.6 km
 Mean cloud = 5.6 70%
 Mean wind speed = 6.3 kn
 Mean gust = 13 kn
 Mean TT = 17.7 C
 Mean TdTd = 11.8 C
 Mean RH = 69.2%
 Mean r = 8.7 g/kg
 Mean PPP = 1018.0 mbar

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for JUNE 2004

Date	VV	N	dd	ff	gg	TT	TdD	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	hshs	NChshs	Date	Remarks
1	75	8	34	06	12	16.8	14.2	85	10.1	1015.5	2	017	02	2	2	8	8	4	/	/	82815	88640		1		
2	80	6	34	06	16	19.7	7.7	46	6.5	1026.3	0	003	02	2	2	1	8	6	0	1	81845	86078		2	1Sc50 COTRA Cu med Halo 22 part, parhelia, u/a cont	
3	78	7	25	05	12	20.4	11.2	56	8.2	1027.5	6	011	02	2	2	5	8	6	7	/	81840	85656	87357	3	Cu hum	
4	84	7	31	10	18	22.4	14.3	60	10.1	1020.1	6	010	02	2	2	5	8	6	3	1	81835	85650	87075	4	2Ac60 COTRA Cu med U/a cont	
5	80	8	35	04	09	18.4	13.5	73	9.6	1021.1	6	002	02	2	2	8	8	5	/	/	82825	88630		5	Cu hum	
6	80	7	23	06	12	24.1	16.1	61	11.4	1018.6	8	007	02	2	2	5	8	6	8	1	83835	83650	85078	6	4Ac64 COTRA Cu med Ac flo vir. Absent	
7	80	2	23	06	12	27.2	14.9	47	10.6	1017.6	7	004	01	1	1	1	1	7	3	1	81850			7	1Ac62 2Ci75 Cu hum Ac billows	
8	70	7	21	10	22	25.8	15.5	53	11.0	1016.0	0	001	03	2	2	2	0	9	3	2	82368	87075		8	COTRA	
9	78	7	25	08	15	23.2	15.1	60	10.6	1019.5	4	000	02	2	2	3	8	6	3	1	82835	86075		9	1Sc50 2Ac64 COTRA Cu med U/a cont	
10	80	7	23	11	19	23.5	13.6	54	9.7	1017.3	6	011	02	1	1	2	6	0	1	82840	86080		10	COTRA Cu med Halo 22° part		
11	82	5	28	10	20	19.9	7.2	44	6.3	1019.3	0	003	02	1	1	5	8	7	6	0	82850	83656		11	1Ac57 Cu med	
12	84	3	31	08	17	20.4	9.4	49	7.3	1025.1	1	010	01	1	1	1	8	6	6	0	81845	83357		12	1Sc56 Cu med	
13	86	6	01	05	11	24.3	9.1	38	7.1	1031.9	5	002	03	1	1	1	1	7	0	1	81856	86080		13	COTRA Cu hum U/a cont	
14	84	6	31	05	12	27.2	16.5	52	11.6	1028.1	8	016	02	2	2	1	1	6	0	1	81845	86075		14	Cu hum	
15	83	4	35	10	22	25.9	14.7	50	10.3	1022.2	7	008	03	1	1	2	2	6	4	2	82848	83075		15	1Ac57 Cu med	
16	81	4	24	08	14	24.7	13.5	50	9.6	1018.7	8	026	03	1	1	3	8	6	0	1	83848			16	1Sc56 2Ci80 COTRA Cu med	
17	86	8	29	08	17	17.1	9.5	61	7.4	1012.5	6	002	02	2	2	8	8	6	/	/	83835	88645		17		
18	86	7	32	08	18	17.2	5.2	45	5.5	1007.9	6	009	02	2	2	7	8	7	/	/	82850	87656		18		
19	86	7	01	04	16	14.2	6.1	58	5.9	1009.1	5	009	80	8	1	6	8	6	6	1	81840	83850	86357	19	4Sc56 /Ci75 COTRA Cu med Sc op mam	
20	82	6	25	08	16	15.5	7.0	57	6.3	1005.8	6	004	15	8	2	4	8	6	6	1	82835	83650		20	2Ac58 1Ci80 COTRA Cu con jp E&SW	
21	80	7	23	07	22	14.0	10.2	78	7.8	1009.8	1	010	80	8	2	5	9	6	6	3	82935	83656	85358	21	1Cu38 1Ci70	
22	81	8	16	08	16	18.7	11.5	63	8.5	1008.6	7	020	03	2	2	3	8	6	7	/	83832	85360	88465	22	1Sc50 Cu med	
23	62	8	25	14	34	14.5	12.5	88	9.2	996.0	3	035	25	8	2	8	8	5	/	/	85820	88635		23		
24	84	3	27	13	29	18.5	6.0	44	5.8	1008.9	2	009	15	1	1	3	8	7	6	0	83850			24	1Sc56 1Ac60 Cu con jp W	
25	84	3	23	03	14	19.5	7.2	45	6.3	1019.0	3	002	02	1	1	3	8	7	0	0	83850			25	1Sc56 Cu med	
26	82	8	18	05	14	16.9	12.4	75	9.0	1015.3	6	006	60	6	2	7	5	6	2	/	87645	88460		26		
27	50	7	26	07	23	17.0	14.6	86	10.3	1017.5	3	006	81	8	1	7	9	6	/	/	87930			27	Mod ra sh Absent	
28	82	7	25	08	17	18.7	9.7	56	7.4	1026.7	3	001	02	2	2	3	8	6	7	8	81840	83358	86275	28	2Sc50 2Ac65	
29	82	7	24	08	13	21.6	11.9	54	8.6	1023.7	8	012	02	2	2	1	8	6	3	/	81845	87365		29	1Sc50 Cu med	
30	63	8	23	10	18	17.6	13.0	74	9.4	1013.1	6	005	60	6	2	8	5	5	/	/	82625	87635	87645	30		

Mean vis = 37.2 km
 Mean cloud = 6.3 78%
 Mean wind speed = 7.6 kn
 Mean gust = 17 kn
 Mean TT = 20.2 C
 Mean TdD = 11.4 C
 Mean RH = 58.7 %
 Mean r = 8.6 g/kg
 Mean PPP = 1017.3 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
 TdD = 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 2004

Date	Mean			Max			Min			Missing RH N >0	Number of minutes RH in given ranges									
	TT	TT	Time	TT	Time	RH	RH	Time	RH		Time	0-20	20-40	40-60	60-80	80-90	90-95	95-98	98-100	
01	14.7	17.5	12:23	12.1	01:09	91.0	99.2	07:44	78.9	17:33	0	0	0	62	606	141	332	299		
02	15.6	20.0	14:32	10.7	04:34	69.4	93.2	00:18	42.2	16:03	0	0	580	314	352	194	0	0		
03	16.6	20.9	11:26	10.5	04:18	69.2	91.7	04:25	49.1	10:32	0	0	620	369	333	118	0	0		
04	19.2	23.9	13:30	15.3	01:55	73.9	92.0	04:43	53.6	12:45	0	0	148	816	225	251	0	0		
05	17.3	19.8	16:57	14.1	23:40	79.4	91.4	23:40	67.4	17:45	0	0	0	741	633	66	0	0		
06	19.4	24.9	14:36	14.6	00:10	75.4	90.8	00:07	57.6	14:39	0	0	58	836	514	32	0	0		
07	20.4	27.6	14:21	12.8	04:28	70.4	95.1	05:06	44.5	14:24	0	0	541	381	174	330	14	0		
08	20.5	30.0	12:25	13.4	04:23	73.3	94.5	03:14	44.0	12:05	0	0	429	387	290	334	0	0		
09	18.5	23.5	14:56	14.5	03:29	77.4	92.7	23:55	57.9	11:19	0	0	49	735	353	303	0	0		
10	18.5	24.0	14:26	14.4	01:47	75.1	95.8	02:04	45.4	16:28	0	0	318	463	328	258	73	0		
11	16.7	21.1	13:05	13.0	04:25	64.9	91.9	04:21	36.8	13:04	0	34	612	362	211	221	0	0		
12	16.4	21.0	15:01	11.2	04:10	67.1	93.3	03:47	46.2	14:18	0	0	613	477	199	151	0	0		
13	18.9	24.9	16:14	10.9	03:43	61.1	90.1	03:43	35.0	12:43	0	349	332	456	302	1	0	0		
14	21.8	28.3	15:42	14.3	03:36	61.5	89.2	04:31	28.9	17:31	0	154	651	303	332	0	0	0		
15	20.6	26.4	14:00	14.2	04:03	63.3	84.7	23:59	46.6	13:04	0	0	620	705	115	0	0	0		
16	19.6	26.0	16:28	13.2	03:30	61.1	87.6	02:20	36.3	21:02	0	45	770	388	237	0	0	0		
17	16.8	18.9	09:48	14.7	02:14	66.3	83.0	02:22	49.9	09:47	0	0	620	672	148	0	0	0		
18	14.6	18.0	14:17	8.1	23:59	68.6	93.2	08:51	41.7	16:42	0	0	527	371	509	33	0	0		
19	12.5	19.0	13:13	6.7	04:20	65.1	93.2	04:33	33.4	13:07	0	157	469	402	85	327	0	0		
20	12.0	16.6	12:27	7.6	04:27	72.7	90.7	09:55	50.3	12:28	0	0	85	987	366	2	0	0		
21	13.0	19.2	13:59	6.9	04:17	76.7	97.6	23:32	44.3	14:00	0	0	450	263	124	326	277	0		
22	14.5	20.1	12:23	8.0	03:58	83.6	99.2	06:04	54.3	10:26	0	0	204	304	113	103	645	71		
23	14.3	15.9	13:09	13.4	23:48	85.7	94.2	05:20	71.6	22:43	0	0	0	382	413	645	0	0		
24	14.7	18.7	14:53	11.4	04:26	64.5	86.0	23:59	42.9	14:59	0	0	601	756	83	0	0	0		
25	15.4	21.1	15:37	9.4	04:29	65.3	92.1	04:42	38.2	16:51	0	27	532	441	332	108	0	0		
26	14.4	17.9	13:09	8.9	02:11	84.5	95.8	10:06	67.5	14:09	0	0	0	396	721	276	47	0		
27	16.6	22.7	13:26	10.7	23:54	81.4	95.9	17:52	49.6	13:22	0	0	228	288	146	749	29	0		
28	15.2	20.0	16:36	9.4	04:30	72.5	98.0	06:06	48.6	13:58	0	0	491	477	60	62	349	1		
29	17.1	22.2	15:29	11.5	04:27	72.6	90.9	04:42	50.6	13:41	0	0	358	548	500	34	0	0		
30	16.2	20.6	12:15	12.6	23:11	74.6	92.2	16:51	51.8	11:52	0	0	170	717	493	60	0	0		
Mean	16.7	21.7		11.6		72.3	92.5		48.8				0.00	0.43	6.15	8.22	5.17	2.85	0.98	0.21
Hi	21.8	30.0		15.3		91.0	99.2		78.9	Tot	0	0	766	11076	14799	9297	5125	1766	371	
Lo	12.0	15.9		6.7		61.1	83.0		28.9											

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. Maxima are corrected during post processing to agree with screen values. 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.