

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

AUGUST 2006

Temperature (°C / °F)			Anomaly	Rank in past 125 years			
Mean maximum	22.1	71.8	-0.1	42 nd highest			
Mean minimum	12.9	55.2	+0.9	9 th highest			
Daily mean	17.5	63.5	+0.4	27 th highest			
Highest maximum	27.9	82.2	on 6 th	Lowest maximum	19.6	67.3	on 12 th
Highest minimum	18.9	66.0	on 7 th	Lowest minimum	7.8	46.0	on 25 th
Mean grass minimum	10.2	50.4		Lowest grass minimum	3.2	37.8	on 30 th
Mean earth @30 cm	18.6	65.5	+0.2	Earth @100 cm	17.9	64.2	+0.7
Frost duration (hrs)	0.0			Rain duration (hrs)	17.7		
Rainfall total (mm / in)	35.2	1.39	69 %	35 th lowest			
Highest daily fall	8.2	0.32	on 18 th				
Number of: Dry days (<0.2mm)	19	Wet days (>0.9mm)	6	days ≥5mm	3		
Sunshine total (hrs)	148.0	Daily mean	4.77	82 %	Sunniest day	11.9	on 8 th
N° days with: Air frost	0	Ground frost	0	Snow falling	0	Snow lying	0
Thunder	2	Hail ≥5mm	0	Small hail/ice	0	Fog @09	0
						Nil sun	0
Air pressure MSL : Mean @09 GMT (mbar/in)	1013.3		-3.8	29.92			
Absolute highest	1024.8			30.26		on 8 th	
Absolute lowest	999.2			29.51		on 17 th	

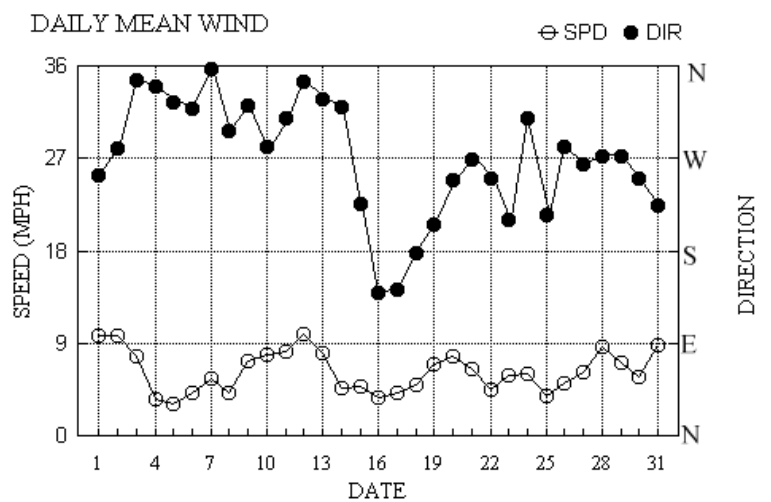
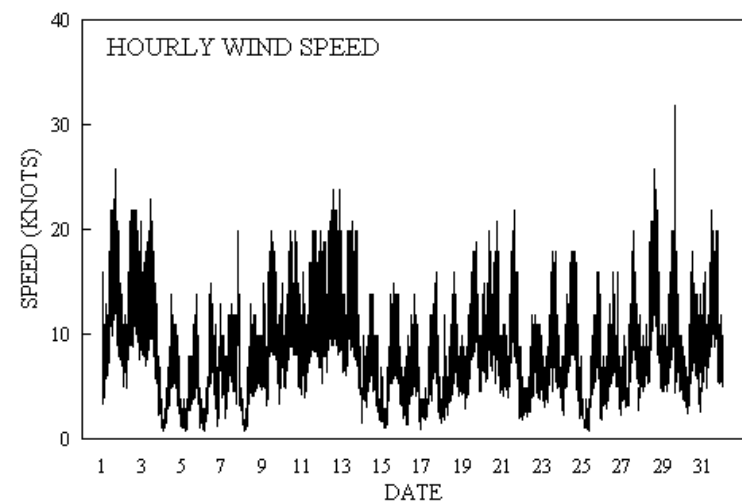
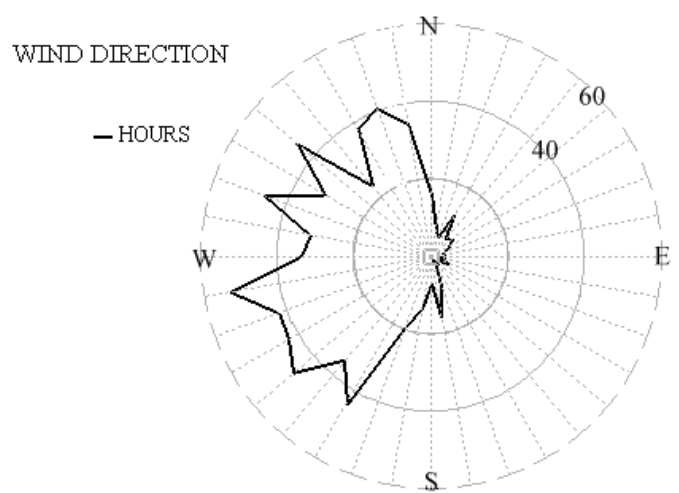
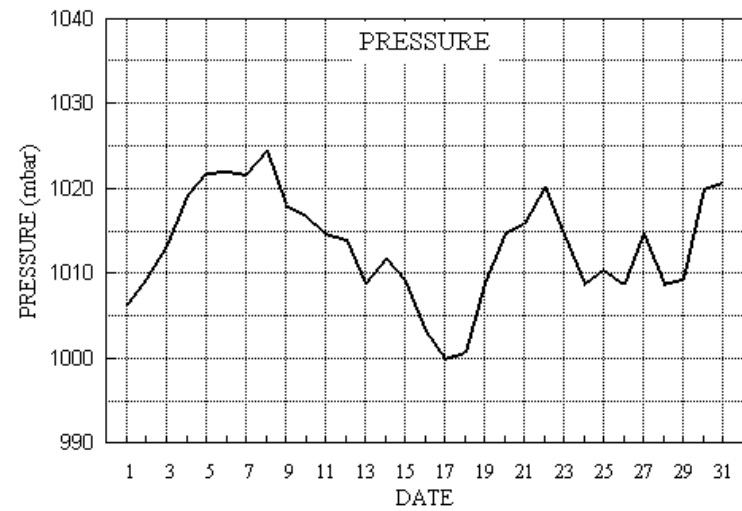
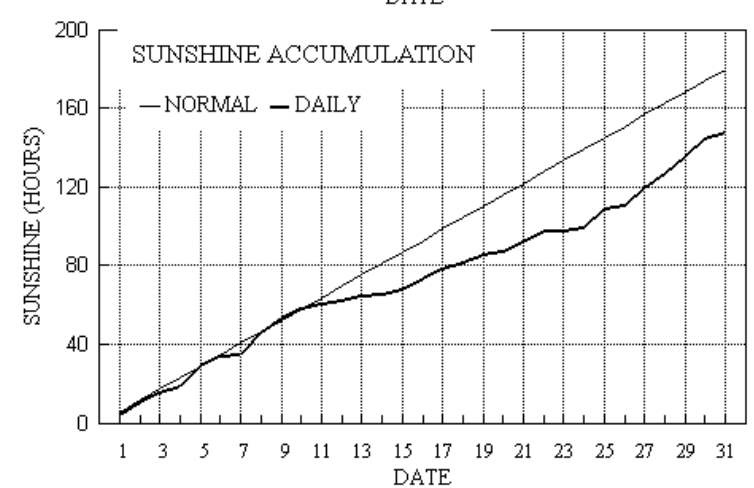
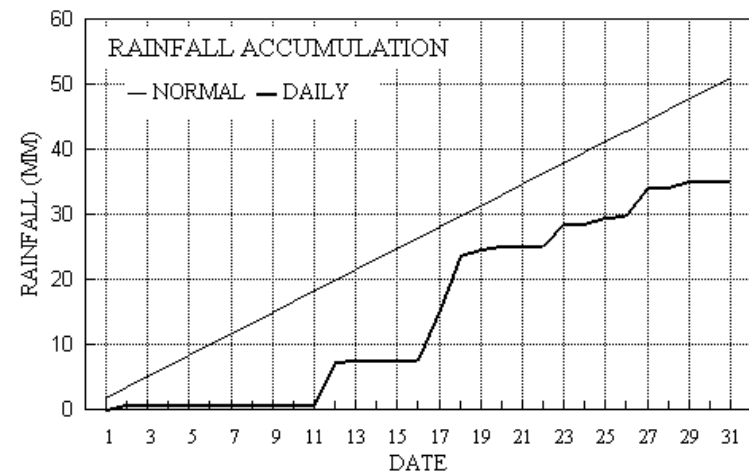
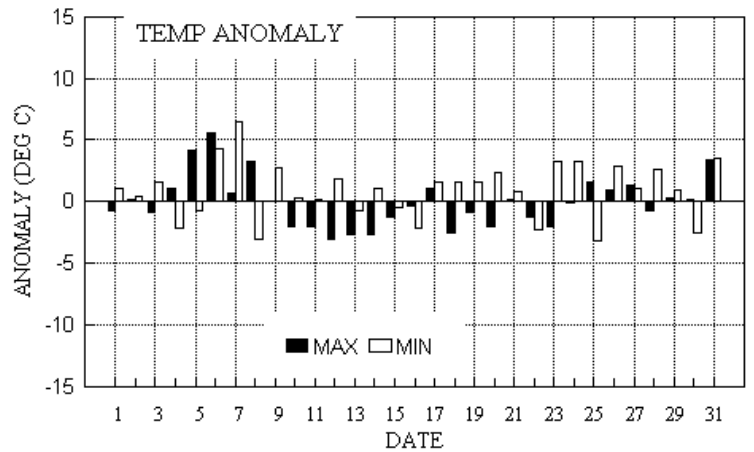
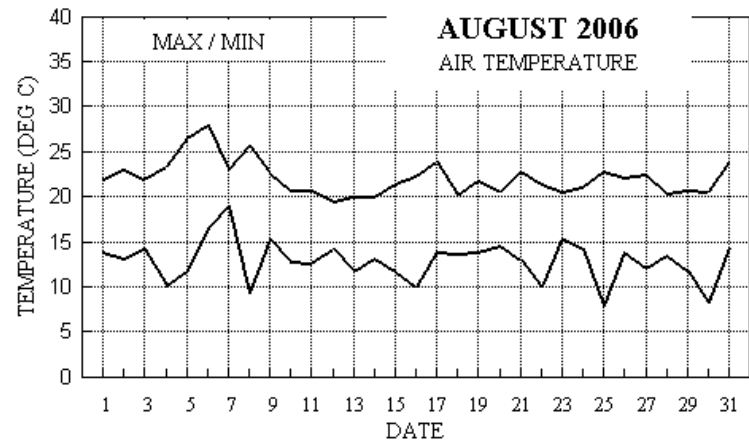
Anomaly = departure from 1971 to 2000 average (degrees C, percent and mbar).

Notes: **Warm, Dry, Very Dull**

Temperature. The mean maximum this August is equal lowest with 1999 since 1994. The range of maxima, 8.3°, is 3.3° below average, and lowest since 1993. Conversely, the mean min is 9th highest in 125 years, but is highest only since 2004. The resulting mean is also highest since 2004, and ranks squarely in the warm category. The highest max is equal to the 103 year median, and is lowest since 2000. The lowest max is 1.6° above the median and 1.4° below the record set in 1997. The lowest max is 2.7° above the median and is highest since 1997, and 4th highest since 1913. The highest min is also 2.7° above the median, but is highest only since 2004. **Rainfall.** The total this month is 31 % below average, and is lowest since 2003. It is also 16 mm below the long-term median. The month's highest fall is 8.3 mm below the median, and is lowest since 2000. The number of dry days is 1 fewer than average, but the duration of rain is 10.4 hours below average. A dry spell of 9 days ended on the 11th. Thunder was heard on the 18th and 29th. **Sunshine.** Remarkably little sunshine this August, in stark contrast to both June and July, lowest since 1977 and 8th lowest in 99 years, although different instruments in use before 1999 make direct comparisons difficult. The total this month is almost 50 hours less than the average for the past 31 years. The sunshine on the month's sunniest day is lowest since 1994. There were 10 days with <3 hours, 9 with =>6 hours and 5 with =>9 hours. **Wind.** The mean wind speed this month was 6.2 mph, slightly above average. The 12th was the windiest day, 9.9 mph, but the month's highest gust of 37 mph was on the 29th. The least windy day was the 5th, 3.1 mph, and there were 611 minutes (10.2 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,4 NE,0 E,0 SE,2 S,1 SW,5 W,11 NW,8. **Humidity.** The overall mean relative humidity was 73.4 %, and the lowest value recorded was 29 % on the 25th. The mean water vapour content per kg of air was 9.2 g at 0900 GMT and 8.3 g at 1500 GMT. **Commentary. From the 1st to the 10th :** Anomalies (max, min, rain, sun) +1.1°, +1.1°, 4 %, 102 %. This was the warmest part of the month, with anomalies for daily max up to +5.5° on the 6th, the month's hottest day, and down to -2.0° on the 10th. For min, anomalies ranged from +6.5° on the 7th, the month's mildest night, to -3.1° on the 8th. Nine dry days, and just 0.6 mm overall. Sunshine was near average, and the month's sunniest day occurred on the 8th. Winds began fresh W'ly on 1st, then became light or moderate, mainly NW'ly. **From the 11th to the 20th :** Anom -1.7°, +0.7°, 148%, 50%.. This was the coolest period, with anomalies for daily max ranging from -3.1° on the 12th, the month's coolest day, to +1.1° on the 17th, the sole day with a +ve anomaly. For daily min, anomalies ranged from -2.2° on the 16th to +2.3° on the 20th. This was the wettest period too, with only 4 dry days, and a total of 24.4 mm, including 8.2 mm on the 18th, the month's wettest day. Sunshine was also very poor, only half the normal, and just one day with over 33 % of maximum. Light or moderate winds throughout were NW'ly until 14th, backing SE'ly by 16th, veering SW'ly by 20th. **From the 21st to the 31st :** Anom +0.3°, +0.9°, 56 %, 95 %. Temperatures recovered a little for this period, especially by day, with anomalies for daily max ranging from -2.1° on the 23rd to +3.4° on the 31st, and for daily min, +3.5° on the 31st and -3.2° on the 25th, the month's coldest night. Less rainfall too, just 10.2 mm in total, and 6 dry days. Sunshine recovered to near normal, with 3 days having >66 % of maximum, and 4 days <33 %. Light or moderate winds were W'ly or SW'ly throughout, increasing fresh for the 28th and 29th.

B J Burton. F.R.Met.S. Hon. Met. Officer to Wokingham Town Council.

Wokingham Climatological Graphs



Month: AUGUST 2006

Date	Max		Rain	Grass	30cm		100cr	Sun	Frost	pp09	Af	Sf	Th	Ic	Vec mean			Max gust			High hr			Rain		
	C	C			mm	Min									C	C	hrs	hrs	mbar	Gf	Sl	Ha	Fg		ddd	ff
1	22.0	13.8	0.0	12.1	20.4	18.5	4.2	0.0	1006.3	0	0	0	0	0	0	254	8.3	8.4	280	26	1603	260	13	15	0.0	
2	23.0	13.1	0.6	10.4	19.7	18.4	6.8	0.0	1009.4	0	0	0	0	0	0	280	7.9	8.4	290	22	1333	290	12	16	2.0	
3	21.9	14.3	0.0	13.3	19.4	18.4	4.8	0.0	1013.2	0	0	0	0	0	0	347	6.3	6.7	360	23	1014	340	11	11	0.0	
4	23.4	10.2	0.0	7.0	19.0	18.2	3.3	0.0	1019.3	0	0	0	0	0	0	340	2.6	3.0	320	14	1051	330	6	11	0.0	
5	26.5	11.7	0.0	8.4	19.2	18.2	10.8	0.0	1021.9	0	0	0	0	0	0	324	2.5	2.7	320	14	1706	310	7	17	0.0	
6	27.9	16.6	0.0	13.4	19.8	18.1	4.5	0.0	1022.1	0	0	0	0	0	0	319	2.8	3.6	360	15	1059	350	7	09	0.0	
7	23.0	18.9	tr	17.8	20.2	18.1	0.6	0.0	1021.6	0	0	0	0	0	0	357	4.3	4.9	40	20	1847	30	10	18	0.0	
8	25.6	9.3	tr	5.3	19.7	18.2	11.9	0.0	1024.4	0	0	0	0	0	0	297	2.0	3.7	40	13	1042	260	6	16	0.2	
9	22.7	15.2	0.0	14.4	20.0	18.2	6.7	0.0	1018.1	0	0	0	0	0	0	321	5.9	6.3	330	20	1013	340	9	09	0.0	
10	20.7	12.8	tr	10.0	19.6	18.2	5.3	0.0	1016.8	0	0	0	0	0	0	282	6.7	6.9	290	20	1059	280	10	09	0.0	
11	20.7	12.7	0.0	9.3	18.9	18.2	2.3	0.0	1014.7	0	0	0	0	0	0	309	6.6	7.1	320	20	1421	310	9	14	0.0	
12	19.6	14.3	6.6	13.2	18.6	18.1	1.5	0.0	1013.9	0	0	0	0	0	0	345	8.5	8.6	360	24	1347	360	11	14	3.2	
13	20.0	11.8	0.3	11.4	18.2	18.0	2.7	0.0	1008.7	0	0	0	0	0	0	328	6.8	7.0	340	21	1258	310	10	08	0.9	
14	20.1	13.2	0.0	10.1	18.1	18.0	0.7	0.0	1011.7	0	0	0	0	0	0	320	3.5	4.0	320	14	0930	340	6	11	0.0	
15	21.5	11.7	0.0	8.2	17.9	17.9	2.5	0.0	1009.1	0	0	0	0	0	0	226	3.7	4.2	240	15	1310	220	8	17	0.0	
16	22.4	10.0	tr	6.5	17.9	17.8	5.5	0.0	1003.2	0	0	0	0	0	0	139	2.6	3.2	90	14	1406	90	5	14	0.1	
17	23.9	13.8	7.9	10.6	18.1	17.8	4.5	0.0	1000.0	0	0	0	0	0	0	142	2.7	3.7	170	16	1612	170	7	15	2.5	
18	20.3	13.7	8.2	10.2	18.4	17.8	3.4	0.0	1000.8	0	0	0	1	0	0	178	2.5	4.3	210	16	1429	220	8	15	1.2	
19	21.8	13.8	1.1	10.1	18.4	17.7	4.2	0.0	1008.7	0	0	0	0	0	0	206	5.8	6.1	210	19	1705	200	10	16	1.2	
20	20.6	14.5	0.3	13.8	18.4	17.7	1.4	0.0	1014.8	0	0	0	0	0	0	249	6.6	6.8	270	21	1620	260	9	09	0.5	
21	22.8	13.0	tr	10.0	18.1	17.7	5.0	0.0	1015.9	0	0	0	0	0	0	269	4.6	5.6	320	22	1432	260	10	12	0.1	
22	21.4	9.9	0.0	6.0	17.9	17.6	5.6	0.0	1020.2	0	0	0	0	0	0	250	3.7	3.9	260	12	1456	250	7	14	0.0	
23	20.6	15.4	3.6	12.5	18.2	17.6	0.3	0.0	1014.5	0	0	0	0	0	0	210	5.0	5.1	220	18	1514	220	9	11	1.5	
24	21.1	14.2	0.0	12.8	18.1	17.6	1.4	0.0	1008.8	0	0	0	0	0	0	309	4.8	5.3	330	18	1137	330	8	10	0.0	
25	22.8	7.8	0.8	4.1	17.8	17.6	9.8	0.0	1010.5	0	0	0	0	0	0	215	3.0	3.4	210	16	1633	220	7	17	0.9	
26	22.1	13.9	0.4	10.7	18.2	17.5	1.1	0.0	1008.8	0	0	0	0	0	0	281	3.5	4.5	340	16	1241	340	7	13	0.2	
27	22.5	12.1	4.4	7.9	18.2	17.5	9.2	0.0	1014.8	0	0	0	0	0	0	265	5.1	5.4	260	20	1243	280	9	13	2.6	
28	20.4	13.6	tr	10.6	18.1	17.5	7.0	0.0	1008.7	0	0	0	0	0	0	272	6.7	7.5	300	26	1443	290	12	13	0.0	
29	20.8	11.8	0.9	8.9	17.9	17.5	9.0	0.0	1009.4	0	0	0	1	0	0	272	5.7	6.1	340	32	1443	310	10	14	0.4	
30	20.6	8.3	tr	3.2	17.5	17.5	8.8	0.0	1020.0	0	0	0	0	0	0	250	4.6	4.9	260	18	1242	270	8	12	0.0	
31	23.9	14.4	0.1	13.5	17.6	17.5	3.2	0.0	1020.7	0	0	0	0	0	0	224	7.5	7.6	240	22	1033	240	12	10	0.2	
Total			35.2				148.0	0.0								279	3.3	5.4							17.7	
Mean	22.1	12.9		10.2	18.6	17.9	4.77	0.0	1013.3																	
Anom	-0.1	+0.9	69%		+0.2	+0.7	82%																			
Daily mean		17.5																								
Anom		+0.4																								

Number of days with:

Air frost = 0 Ground frost = 0 Nil sun = 0
 Snow falling = 0 Snow lying = 0 Thunder = 2
 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 AUGUST 2006

Date	VV	N	dd	ff	gg	TT	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	Nh	Ch	Nh	Ch	Date	Remarks		
1	84	4	26	10	20	18.5	12.6	69	9.2	1006.3	2	005	25	8	1	4	8	5	0	0	84825			1	1Sc45	Cu med		
2	86	2	29	08	17	19.5	9.4	52	7.4	1009.4	2	001	03	0	0	2	8	6	3	9	81840			2	1Sc50	1Ac65 1Cc72 1Ci78	Cu med Sc len	
3	62	8	35	10	22	15.5	12.8	84	9.2	1013.2	2	026	20	5	2	8	5	4	/	/	81710	86612	88618	3				
4	75	7	01	03	06	17.3	12.3	72	8.9	1019.3	3	009	03	2	2	7	8	5	7	/	82824	87628		4	/Ac63	/Ac65	Cu hum	
5	75	6	33	02	08	20.6	14.3	67	10.1	1021.9	1	009	03	2	2	1	1	5	3	1	81825	86078		5	1Ac60	COTRA	Cu hum Parhelia+22 halo part	
6	88	6	35	06	13	23.5	14.6	58	10.3	1022.1	1	001	03	2	2	1	1	6	0	1	81835	83172		6	4Ci75	Cu hum U/a cont		
7	80	8	35	06	13	19.2	15.0	76	10.6	1021.6	2	005	02	2	2	8	5	4	/	/	83715	87618	88622	7				
8	88	1	03	04	08	18.9	10.8	60	8.0	1024.4	8	002	01	1	1	1	5	7	0	1	81650			8	1Ci78	COTRA		
9	82	3	34	09	18	17.9	11.3	65	8.3	1018.1	3	005	01	5	1	3	8	5	3	0	83825			9	1Sc50	1Ac58	Cu hum	
10	84	7	27	09	19	17.4	11.2	67	8.3	1016.8	7	003	03	1	1	7	8	5	/	/	83825	85635		10			Cu hum	
11	86	8	30	07	18	15.6	8.8	64	7.0	1014.7	7	005	03	2	2	7	8	6	/	8	83830	83640	87650	11	/Cs75	Cu hum		
12	81	8	35	09	20	16.2	11.2	72	8.3	1013.9	1	003	02	2	2	8	5	5	/	/	85622	88625		12				
13	56	8	31	09	20	13.5	12.6	94	9.1	1008.7	7	012	64	6	2	7	7	3	2	/	87708	88520		13				
14	62	8	31	08	20	16.0	13.3	84	9.6	1011.7	2	001	02	2	2	8	5	4	/	/	87712	88620		14	Absent	14th to 28th inc.	Vis est.	
15	75	7	28	04	08	17.0	10.9	67	8.2	1009.1	7	009	02	2	2	7	8	5	/	/	84825	87635		15				
16	75	7	19	04	08	18.0	13.6	76	9.9	1003.2	7	004	02	1	1	1	1	5	3	8	81825	86280		16	1Ac65			
17	70	7	16	05	11	19.6	15.8	79	11.4	1000.0	2	003	02	2	2	4	8	4	3	/	82812	83620	87360	17				
18	81	5	10	03	09	18.9	15.7	82	11.3	1000.8	3	004	02	6	1	5	8	4	3	0	82815	84656		18	1Ac60			
19	75	5	22	06	12	17.3	14.4	83	10.3	1008.7	1	005	01	8	1	3	2	4	8	2	83815	84358		19	2Ci75			
20	68	8	25	09	20	16.9	13.6	81	9.7	1014.8	2	020	60	6	1	5	5	4	2	/	81715	85625	88462	20				
21	82	5	25	06	15	18.3	14.7	80	10.4	1015.9	6	010	02	8	2	5	8	4	0	0	84818			21	2Sc30			
22	84	7	29	02	07	16.9	11.2	69	8.2	1020.2	2	001	02	1	1	1	1	5	0	2	81820	87080		22				
23	75	6	22	06	11	18.5	14.7	79	10.5	1014.5	7	008	02	2	2	2	5	6	3	/	81712	86358		23	2Sc45			
24	65	8	30	06	13	15.5	13.2	86	9.5	1008.8	2	010	02	2	2	8	5	4	/	/	85712	88620		24				
25	80	2	12	01	04	16.4	10.6	69	8.0	1010.5	7	001	02	0	0	2	0	9	3	0	82365			25				
26	75	7	29	07	12	17.6	14.9	84	10.6	1008.8	2	012	02	2	2	5	8	4	3	/	82815	84625	87358	26				
27	82	2	27	07	13	17.7	12.5	72	9.0	1014.8	2	006	02	1	1	1	5	6	3	0	81630			27	1Ac58			
28	82	4	29	10	16	16.6	11.9	74	8.7	1008.7	0	000	03	6	1	4	2	5	0	0	84822			28				
29	86	2	31	08	16	16.8	8.9	60	7.1	1009.4	6	001	03	1	1	1	2	5	3	8	81828			29	1Ac58	1Cs75	Cu med	
30	88	3	26	05	10	16.3	10.5	69	7.9	1020.0	1	014	03	0	0	1	8	5	0	1	81825	83078		30	1Sc56	1Ci72	COTRA	Cu hum
31	81	7	22	08	17	19.5	15.7	78	11.1	1020.7	1	001	01	2	2	7	8	4	3	2	81815	83650	87656	31	/Ac62	/Ci72	Cu fra	

Mean vis = 36.2 km

Mean cloud = 5.7 71%

Mean wind speed = 6.4 kn

Mean gust = 14 kn

Mean TT = 17.7 C

Mean TdTd = 12.7 C

Mean RH = 73.3 %

Mean r = 9.2 g/kg

Mean PPP = 1013.3 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 AUGUST 2006

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	hNChs	Date	Remarks
1	86	7	25	10	23	20.8	10.8	53	8.1	1007.1	2	004	03	2	2	3	2	6	6	1	83840	86357	1	/Ci75 Cu med	
2	86	6	29	11	20	20.9	7.9	43	6.7	1007.6	6	005	02	2	2	6	8	7	/	2	82850	86656	2	/Ci75	
3	72	5	36	08	16	20.5	11.1	55	8.2	1015.9	1	012	01	2	2	5	5	5	0	0	85628		3		
4	75	7	35	06	13	22.9	11.4	48	8.3	1019.1	7	001	02	2	2	2	1	6	3	1	82845	86365	4	/Ci75 COTRA Cu hum	
5	78	6	36	04	10	25.4	14.2	50	10.1	1021.0	7	002	02	2	2	2	8	6	3	1	82845	85078	5	1Sc50 1Ac57 Cu hum	
6	86	6	35	04	10	26.8	15.8	51	11.2	1020.6	8	002	01	2	2	6	8	6	0	0	81848	83650	6	4Sc56 Cu hum	
7	80	7	31	04	13	21.7	14.2	63	10.1	1021.8	7	003	01	2	2	7	5	5	/	/	85625	87640	7	Absent vv&cld est	
8	84	4	29	03	11	25.1	11.4	42	8.4	1020.7	7	018	02	0	0	1	1	7	3	2	81850	84367	8	1Ci75 Cu hum	
9	84	5	33	07	16	21.7	7.3	39	6.3	1017.3	6	004	02	1	1	4	4	7	0	1	81850	84656	9	2Ci78 COTRA	
10	84	7	28	08	18	19.8	9.3	51	7.3	1015.0	8	006	15	2	2	7	8	6	/	1	84840	87656	10	/Ci78 Cu med jpE	
11	86	7	31	08	21	19.8	6.6	42	6.0	1012.5	7	014	02	2	2	6	8	7	/	2	82850	85656	11	3Ci75 Cu hum	
12	83	7	36	09	21	18.6	9.1	54	7.2	1013.5	8	003	02	2	2	7	8	6	/	/	84835	87650	12	Cu med	
13	78	7	32	09	18	19.4	14.1	71	10.1	1009.9	1	007	80	8	2	4	9	5	6	3	81920	83825	85075	13	1Ac58 2Ac62 COTRA CbE
14	62	7	32	09	18	18.4	12.9	70	9.3	1012.4	1	001	02	2	2	7	8	5	/	/	84825	86628	87650	14	Absent 14th to 28th inc. Vis&cld est
15	82	6	23	07	13	20.4	9.6	50	7.5	1005.4	7	018	01	2	2	5	8	6	0	2	82843	84650	85075	15	
16	80	5	09	06	13	21.9	11.4	51	8.5	1001.2	7	012	02	1	1	3	4	6	0	1	83640	86075		16	
17	81	3	17	06	14	23.4	11.4	47	8.5	999.8	8	003	01	1	1	1	1	6	0	1	81835	83075		17	
18	80	5	24	06	16	19.8	14.5	72	10.5	1001.8	3	005	25	8	1	5	8	5	0	2	81822	83656		18	1Sc30 2Ci75
19	81	6	19	09	19	20.5	13.0	62	9.4	1009.0	4	000	15	1	1	3	8	6	6	3	82835	83357		19	2Sc50 2Ci72
20	81	7	27	05	12	17.4	13.0	75	9.3	1017.0	2	010	25	8	2	7	8	5	/	/	82825	87656		20	2Sc45
21	84	6	33	10	19	19.8	12.0	61	8.7	1016.2	2	005	01	8	1	6	8	6	0	0	82836	85656		21	
22	82	7	25	06	12	20.8	9.2	47	7.2	1018.6	7	012	02	2	2	4	4	6	7	2	81842	84645	86365	22	7Ci75
23	72	8	21	07	15	18.0	13.8	77	9.9	1011.7	7	013	02	2	2	8	5	5	/	/	87625	88650		23	
24	82	7	32	07	17	19.8	9.5	52	7.4	1009.7	2	005	02	2	2	5	8	6	3	/	82845	84656	86357	24	
25	86	6	21	06	13	21.4	5.4	35	5.6	1008.8	7	007	03	1	1	1	1	7	3	2	81856	85365	85075	25	
26	80	6	28	06	13	21.4	12.5	57	9.1	1010.4	1	008	02	2	2	5	8	6	7	/	81832	85656		26	2Ac59
27	82	5	29	08	16	22.1	9.1	43	7.2	1014.6	2	001	02	1	1	1	4	7	3	1	81850	84080		27	1Sc56 2Ac65
28	84	3	29	12	24	19.7	8.2	47	6.8	1009.3	1	004	01	1	1	2	2	6	0	3	82845			28	2Ci72
29	40	7	32	13	31	13.7	10.5	81	7.9	1010.6	3	019	95	9	8	7	9	6	/	/	87930			29	single t 1453
30	88	5	25	06	12	19.9	7.2	44	6.3	1020.8	1	002	02	1	1	1	1	7	3	1	81850	84367		30	1Ci80 COTRA Cu hum
31	86	6	23	10	18	23.3	13.4	54	9.5	1019.6	8	007	01	2	2	5	8	6	0	1	82837	83645		31	1Sc56 1Cc72 3Ci77 COTRA Cu hum

Mean vis = 40.4 km

Mean cloud = 6.0 75%

Mean wind speed = 7.4 kn

Mean gust = 16 kn

Mean TT = 20.8 C

Mean TdTd = 11.0 C

Mean RH = 54.4 %

Mean r = 8.3 g/kg

Mean PPP = 1012.9 mbar

VV = Visibility code (Code FM12-4377)

N = Total cloud amount, oktas

dd = Direction from which wind is blowing, tens of degrees true

ff = 10 minute mean wind speed, knots

gg = Highest gust in past hour, knots

TT = Air temperature at 1.2 m, deg Celsius

TdTd = Dew point temperature at 1.2 m, deg Celsius

RH = Relative humidity at 1.2 m

r = Humidity mixing ratio at 1.2 m, g/kg

PPP = Air pressure reduced to sea level, mbar

a = Characteristic of pressure tendency (Code FM12-0200)

ppp = 3 hr pressure tendency, tenths of mbar

ww = Present weather code (Code FM12-4677)

W1, W2 = Past weather code (Code FM12-4561)-

covers past 3 hours.

Nh = Amount of low cloud present, oktas

Cl = Type of low cloud (Code Fm12-0513)

h = Height of low cloud (Code FM12-1600)

Cm = Type of medium cloud (Code FM12-0515)

Ch = Type of high cloud (Code FM12-0509)

8 groups. 8 = indicator for cloud detail

N = Amount of cloud, oktas

C = Type of cloud (FM12-0500)

hshs= Height of cloud (FM12-1677)

Remarks : COTRA = persistent condensation

trails present.

Wokingham Psychrometer
 Daily means and extremes, 00-24 GMT
 AUGUST 2006

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	17.8	22.0	15:38	13.8	04:37	72.0	96.7	00:11	45.5	15:43			0	0	580	310	94	96	360	0
02	17.5	22.9	13:34	13.1	05:00	66.1	90.3	23:59	37.2	13:35			0	13	659	231	534	3	0	0
03	17.1	21.9	17:04	13.4	23:59	73.8	94.8	05:37	44.2	17:34			0	0	314	515	278	333	0	0
04	18.0	23.4	17:04	11.7	02:07	68.2	91.1	04:07	43.2	16:42			0	0	520	482	278	160	0	0
05	20.6	26.5	13:14	13.2	04:43	67.9	88.9	04:42	43.1	13:14			0	0	506	643	291	0	0	0
06	23.2	27.9	15:14	18.3	02:59	67.3	88.7	03:21	44.5	15:13			0	0	649	352	439	0	0	0
07	19.9	23.0	18:12	13.9	23:59	74.0	86.5	23:52	46.4	18:10			0	0	211	698	531	0	0	0
08	19.3	25.7	15:46	10.6	05:01	62.2	93.3	05:12	38.3	12:42			0	33	775	219	157	256	0	0
09	18.8	22.7	13:37	15.2	07:38	59.2	93.7	06:51	35.1	15:34	21		0	111	820	214	72	202	0	0
10	16.9	20.8	15:49	12.8	04:17	63.6	79.7	04:40	48.9	11:40			0	0	492	948	0	0	0	0
11	16.4	20.7	13:42	12.6	04:58	59.1	76.3	23:17	38.5	13:44			0	31	635	774	0	0	0	0
12	16.6	19.6	14:05	14.1	23:59	65.0	78.0	05:19	43.9	16:57			0	0	506	934	0	0	0	0
13	15.1	20.0	14:39	11.8	02:39	87.0	97.8	02:59	65.1	17:01			0	0	0	405	275	298	462	0
14	16.3	19.9	16:41	13.4	23:59	80.4	91.4	05:31	63.6	16:15			0	0	0	663	578	199	0	0
15	15.8	21.1	11:39	10.5	23:44	74.2	97.9	05:43	46.4	12:19			0	0	449	336	173	377	105	0
16	15.4	22.7	14:27	9.2	05:23	82.3	100.0	06:30	46.5	13:16			0	0	296	213	158	126	386	261
17	16.8	23.0	15:16	13.2	02:08	81.3	98.3	05:51	46.0	15:37			0	0	293	194	255	290	386	22
18	16.1	19.7	15:12	13.6	23:27	86.5	98.5	23:39	69.6	15:16			0	0	0	381	461	360	194	44
19	17.1	22.2	15:22	14.2	20:36	81.8	97.0	00:00	55.8	15:41			0	0	111	454	213	505	157	0
20	16.3	20.8	14:17	11.7	23:23	80.6	96.6	23:47	61.4	14:11			0	0	0	593	401	419	27	0
21	16.9	22.7	13:09	10.6	23:44	74.5	95.6	23:49	47.1	13:20			0	0	425	358	183	444	30	0
22	15.8	21.2	15:35	8.7	05:41	72.2	98.3	05:49	45.9	13:40			0	0	471	406	175	225	154	9
23	16.4	19.5	10:40	14.1	23:59	87.4	97.2	22:35	64.0	11:20			0	0	0	353	158	601	328	0
24	16.6	23.2	15:57	12.0	23:59	74.7	98.7	01:59	38.8	16:02			0	5	360	417	213	308	106	31
25	15.1	22.8	15:04	6.4	05:29	71.8	100.0	06:20	29.1	14:28			0	270	319	119	85	234	145	268
26	16.5	22.8	15:17	11.9	23:59	84.1	98.9	23:45	52.8	15:17			0	0	108	408	150	238	490	46
27	16.5	22.4	14:00	11.2	02:28	71.5	99.1	00:28	39.9	15:50			0	1	496	456	72	175	205	35
28	15.8	20.4	14:34	12.1	23:59	71.6	97.3	04:12	42.7	16:20			0	0	537	263	300	128	212	0
29	14.6	20.8	12:54	10.5	05:17	74.3	96.2	05:23	36.6	12:55			0	22	307	396	578	99	38	0
30	15.4	20.6	13:16	9.3	05:07	67.5	94.2	05:59	39.2	13:20			0	11	638	218	380	193	0	0
31	19.1	23.9	13:41	15.5	00:00	74.7	90.3	22:56	50.6	14:50			0	0	374	357	671	38	0	0
Mean	17.1	22.2		12.3		73.4	93.6		46.8				0.00	0.27	6.37	7.16	4.38	3.39	2.03	0.38
Hi	23.2	27.9		18.3		87.4	100.0		69.6	Tot	21		0	497	11851	13310	8153	6307	3785	716
Lo	14.6	19.5		6.4		59.1	76.3		29.1											

Power supply failure on 14th led to loss of data for period 14th to 28th while I was absent. RH data for this period supplemented with data from Stepen Burt's instruments at Stratfield Mortimer

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

SUMMER 2006

Temperature (°C)		Rank in the past 125 years	
Mean maximum	24.2	(+2.7)	2 nd highest
Mean minimum	12.8	(+1.3)	2 nd highest
Daily mean	18.5	(+2.0)	*New highest*
Rainfall total (mm)	77.8	(53 %)	7 th lowest
Sunshine total (hours)	703.0	(134 %)	
N ^o of: Dry days	64	(+5)	Wet days 15 (-8)
Days with: Air frost	0 (0)	Ground frost 1 (-1)	Snow falling 0 (0) Snow lying 0 (0)
Thunder 7 (0)	Hail ≥5mm 0	Small hail/ice 0	Fog @09 GMT 0 Nil sun 0
Air pressure MSL : Mean @09 GMT (mbar)		1017.8	(+0.7)

Departure from 1971 to 2000 average shown in brackets.

Notes: **New Record High Mean Temperature. Very Dry. Sunny.**

Temperature. Another one for the record books. This summer season has the highest mean temperature in the past 125 years, admittedly beating 2003 by only 0.1°. In terms of the daily maximum, the mean is only 2nd highest after 1976, and is 0.7° below the record set in that year. The mean minimum is also 2nd highest, but is only 0.1° below the record set in 1997. The season's highest temperature, 35.8° on the 19th July, is 5.5° above the median and ranks 2nd highest in the past 103 years, after 36.9° in 2003. The lowest minimum, on the other hand, 3.8° on the 1st June, is 0.5° below its median. The lowest max was 15.7° on the 26th June and is 1.4° above the median, and 1.9° below the record set in 2003. The highest min, 18.9° on the 17th August, is 1.8° above the median, and 0.7° below the record set in 1997. The mean grass min, 9.8°, is 0.9° above average. Down in the ground, the mean temperature at 30 cm depth was 18.6°, 0.6° above average, while at 1 m depth the mean of 16.7° is 0.4° above average. July was the hottest month, mean 20.9°, 3.5° above average, and June the coolest, but 2.0° above average. **Rainfall.** A very dry season, just over half the average rain fell on Wokingham, making it the driest summer since 1995, and before that 1990. The wettest day was the 22nd July with 10.7 mm, the lowest daily total for the summer season since 1995, and 6th lowest in 103 years. The number of dry days is most since 1995, and there were 6 dry spells, 3 in June, 2 in July and 1 in August, with the longest of 11 days ending on the 21st July. August was the wettest month with 35.2 mm, closely followed by July with 33.3 mm, while June only managed 9.5 mm. Thunder occurred once in June, 4 times in July and twice in August. The duration of measurable rain, 45.9 hours, is 33.5 hours below average, and fewest since 1995. **Sunshine.** Only a very poor showing in August prevented this from being another statistic for the record books. As it is, this is the sunniest summer since 1996, and although direct comparison with earlier years is difficult, due to instrument changes, it is probably one of the 12 sunniest summers in the past 99 years. July was the sunniest month, with an outstanding 171 % of average, and June was not far behind with 150 %. The disappointment was the 82 % in August. The sunniest days were the 3rd and 9th of June, with 15.5 hours, but there were also 6 other days during June/July with over 15 hours. Overall there were 18 days with <3 hours, 52 with =>6 hours, 37 with =>9 hours, 24 with =>12 hours and 8 with =>15 hours. **Wind.** The overall mean wind speed this summer was 5.6 mph, slightly below average. August was the windiest month, 6.2 mph and June the calmest. The windiest day was the 9th July, 11.4 mph, but the season's highest gust of 37 mph was on the 29th August. The least windy day was the 25th June, 2.3 mph, and there were 2662 minutes (44.5 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,5 NE,11 E,7 SE,8 S,4 SW,29 W,16 NW,12. **Humidity.** The overall mean relative humidity was 68.3 %, and the lowest value recorded was 21 % on the 1st July. Mean water vapour content per kg of air was 9.5 g at 0900 GMT and 8.4 g at 1500 GMT.

June. Very warm, very dry, sunny. Mean max 3rd highest in 125 years. Mean daily temp. range highest since 1996. Most dry days since 1996. Sunniest since 1996. Wind speed lowest since before 1988.

July. Hottest month of any in past 125 years, dry, very sunny. Mean max highest, and mean min 2nd highest in past 125 years. Highest max, 35.8°, a new July record, and 2nd highest for any month in past 104 years. Mean max for period 16th to 21st 32.0°. Lowest max a new record high. 30 cm earth temp. highest since 1989. Probably sunniest since 1911.

August. Warm, dry and very dull. Mean max equal lowest with 1999 since 1994. Lowest max 4th highest since 1913. Sunshine lowest since 1977.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Wind Mn mph	Max gust	Mean pressure	Anom
June	23.1	+3.3	11.0	+0.9	9.3	17 %	252.7	150 %	5.0	35	1021.1	+4.1
July	27.5	+5.0	14.4	+2.1	33.3	80 %	302.3	171 %	5.6	35	1019.3	+1.9
August	22.1	-0.1	12.9	+0.9	35.2	69 %	148.0	82 %	6.2	37	1013.3	-3.8

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