

WOKINGHAM METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

Lat/Long 51°25'N 00°51'W NGR (SU)798701 Altitude 46m ASL.

Monthly Means and Totals

AUGUST 2007

Temperature (°C / °F)			Anomaly	Rank in the past 126 years			
Mean maximum	21.4	70.5	-0.8	58 th highest			
Mean minimum	11.2	52.2	-0.8	60 th highest			
Daily mean	16.3	61.3	-0.8	61 st highest			
Highest maximum	28.4	83.1	on 5 th	Lowest maximum	16.4	61.5	on 20 th
Highest minimum	15.4	59.7	on 6 th	Lowest minimum	7.4	45.3	on 1 st
Mean grass minimum	8.3	46.9		Lowest grass minimum	3.7	38.7	on 1 st
Mean earth @30 cm	18.3	64.9	-0.1	Earth @100 cm	18.6	65.5	
Frost duration (hrs)	0.0			Rain duration (hrs)	28.4		
Rainfall total (mm / in)	36.8	1.45	72 %	38 th lowest			
Highest daily fall	10.4	0.41	on 15 th				
Number of: Dry days (<0.2mm)	22	Wet days (>0.9mm)	7	days ≥5mm	4		
Sunshine total (hrs)	208.3	Daily mean	6.72	116 %	Sunniest day	14.2	on 5 th
N° days with: Air frost	0	Ground frost	0	Snow falling	0	Snow lying	0
Thunder	0	Hail ≥5mm	0	Small hail/ice	0	Fog @09	0
						Nil sun	3
Air pressure MSL : Mean @09 GMT (mbar/in)	1016.4		-0.7	30.01			
Absolute highest	1030.2			30.42		on 26 th	
Absolute lowest	994.0			29.35		on 14 th	

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

Notes:

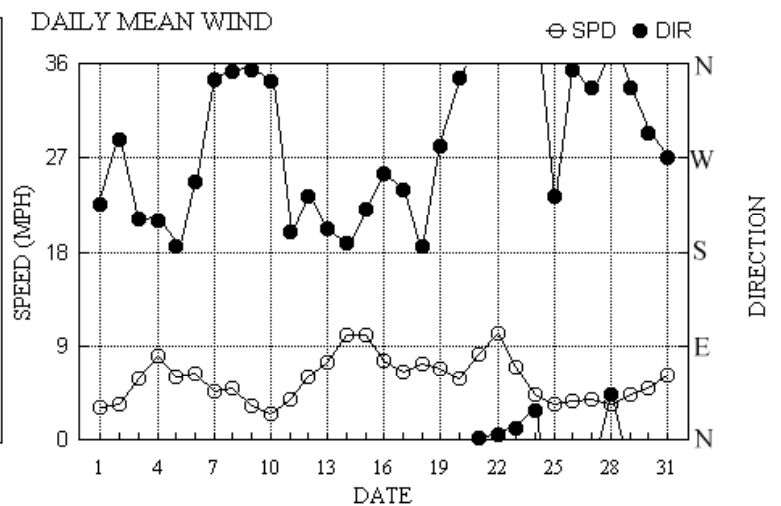
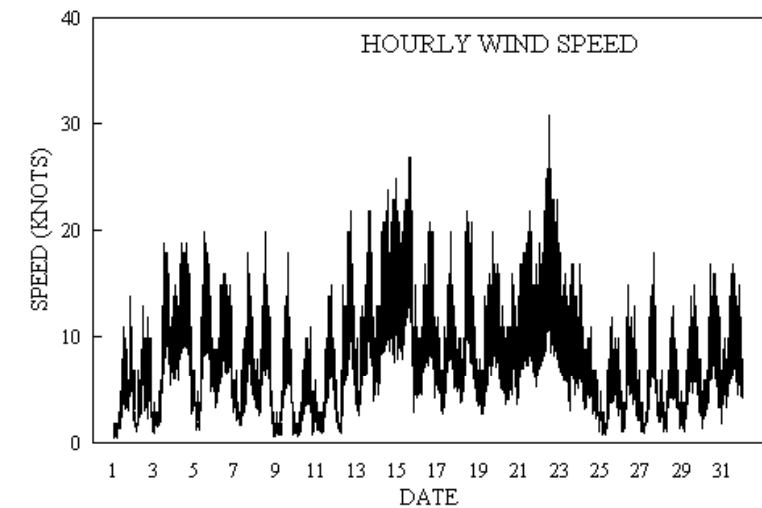
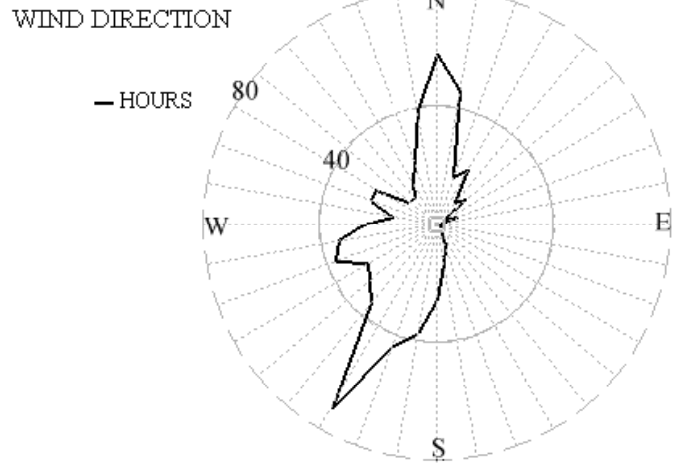
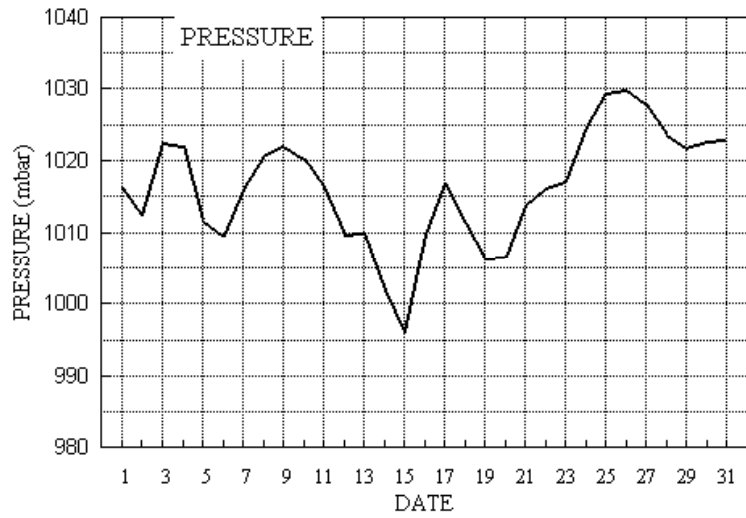
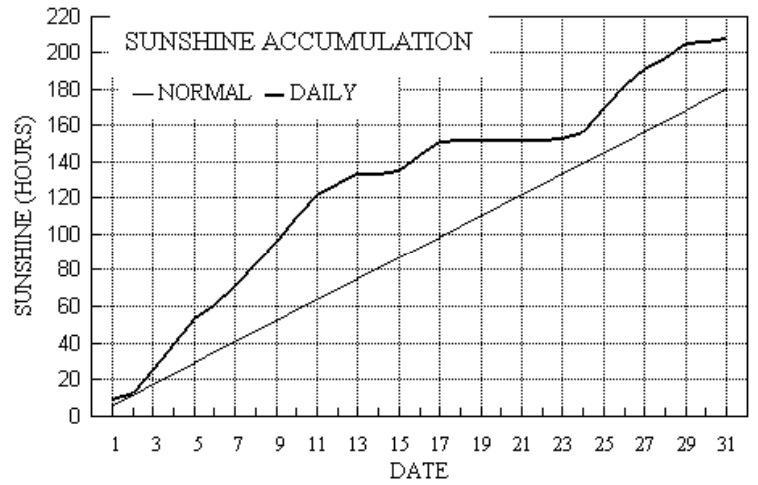
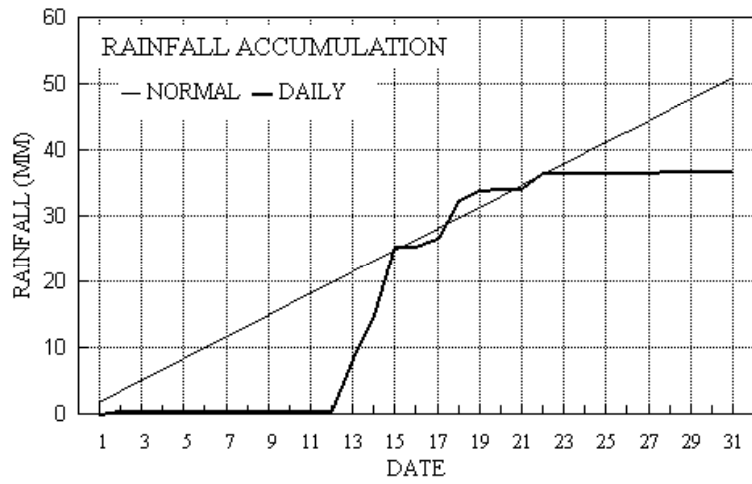
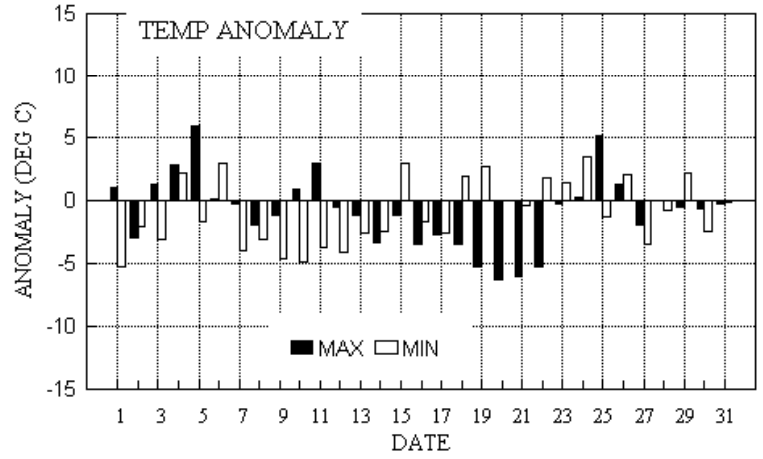
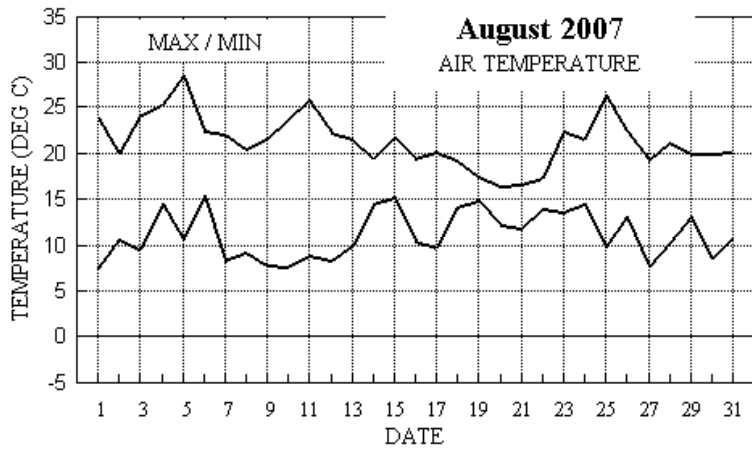
Temperature Near and Rainfall Well Below Normal, Sunny.

Temperature. Although the mean temperature is almost 1° below the current 30 year climatological average, compared to the longer term it lies exactly on the median, attesting to the warming that has occurred during the 126 year period. Both the mean maximum and mean minimum are lowest since 1993. There were only 4 days with a maximum >25° but the month's highest max is 0.5° above the median, though it is 8.5° below the record 36.9° set in 2003. The lowest min is 1.1° above the median and the lowest max is 0.4° below the median while the highest min is 0.8° below its median. The lowest grass min is 0.8° above average. **Rainfall.** As a welcome respite after the three previous very wet months, it was quite a dry August, the total rainfall being 28 % below average, and the number of dry days is 2 greater than average. The total rain duration is close to normal. Heavy rain fell on the 15th and a rain rate of 77 mm/hr at 1912 GMT on that day was the highest for the month. A 10 day dry spell ended on the 13th, and a second was unbroken on the 31st after 9 days. **Sunshine.** Reasonably sunny overall, although there was notably little sun between the 18th and 24th, and the 3 days with nil sun is equal highest for the month with 2001 and 1981 in the past 28 years. Overall there were 10 days with <3 hours, 18 with =>6 hours, 12 with =>9 hours and 8 with =>12 hours. **Wind.** The mean wind speed of 5.8 mph is exactly average. The windiest day was the 22nd with a mean speed of 10.2 mph, and the month's highest gust of 36 mph was also on that day. The 10th was the least windy day, mean 2.4 mph, and there were 20.4 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,10 NE,2 E,0 SE,0 S,4 SW,9 W,4 NW,2. **Humidity.** The overall mean relative humidity was 73.7 % and the lowest value recorded was 29 % on the 8th. The mean water vapour content per kg of air was 8.8 g at 0900 GMT and 8.0 g at 1500 GMT. **Pressure.** The month's lowest pressure is equal lowest with 1999 since 1992. **Commentary. Anomalies** (max, min, rain, sun). **1st to the 10th,** +0.6°, -2.4°, 2 %, 190 %. **11th to the 20th,** -2.4°, -0.9°, 200 %, 72 %. **21st to the 31st,** -0.7°, +0.2°, 14 %, 88 %. The month can be divided into three on the basis of rainfall and sunshine. **From the 1st to the 12th** it was dry and very sunny. Temperatures were variable, but the month's hottest day on the 5th, with an anomaly of +6.0°, and the month's lowest and highest min on the 1st and 6th res., anomalies -5.3° and +3.0°, were in this period, as was the month's sunniest day on the 5th. 8 of the 12 days had >66 % of the maximum possible sunshine, and 3 had over 90 %. Winds from between W and S veered N'ly on the 7th, backing SW'ly again on the 11th, and were light or moderate throughout. **From the 13th to the 22nd** it was mostly cool, wet and dull. The month's coldest day was on the 20th, anomaly -6.3°, and none of the days had a max above normal. Minima were more variable, but generally within 3° of normal. All but 0.5 mm of the month's rain fell in this period, with the month's wettest day on the 15th, but the highest duration of 8.0 hours was on the 14th. Mostly dull, 3 days having nil sun and 8 of the 10 with <33 % of the maximum, and none with >66 %. Winds from between S and W veered N'ly on 20th, and were generally moderate, but fresh on the 15th. **From the 23rd to the 31st** it was dry, but sunshine and temperature were a little below normal. The max on the 25th was an exception at 5.2° above normal. Sunshine was poor except for the period 25th to 27th, when each day saw >66 % of the maximum, and with 97 % on the 25th. Mostly light winds were generally N'ly, backing W'ly by the 31st.

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham climatological graphs for August 2007



Month: AUGUST 2007

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	23.8	7.4	0.0	3.7	18.3	18.5	9.3	0.0	1016.1	0	0	0	0	226	2.1	2.7	210	14	1958	210	6	20	0.0	
2	19.9	10.7	0.3	6.7	18.8	18.5	3.7	0.0	1012.4	0	0	0	0	288	2.7	3.0	280	13	1121	300	6	11	0.4	
3	24.1	9.6	0.0	5.5	18.6	18.5	12.5	0.0	1022.4	0	0	0	0	212	5.0	5.1	210	19	1256	210	10	16	0.0	
4	25.3	14.6	0.0	12.5	19.0	18.6	14.0	0.0	1021.9	0	0	0	0	211	6.8	7.0	210	19	1404	220	10	13	0.0	
5	28.4	10.7	0.1	8.0	19.2	18.6	14.2	0.0	1011.7	0	0	0	0	186	4.5	5.2	190	20	1159	190	9	15	0.1	
6	22.5	15.4	0.0	12.4	19.5	18.7	7.3	0.0	1009.5	0	0	0	0	247	5.1	5.5	250	16	1000	250	8	12	0.0	
7	22.1	8.4	0.0	5.0	19.2	18.9	10.8	0.0	1016.0	0	0	0	0	345	2.4	4.0	10	18	1548	10	8	16	0.0	
8	20.5	9.3	0.0	5.6	19.0	18.9	11.9	0.0	1020.6	0	0	0	0	353	4.1	4.2	30	20	1114	340	7	09	0.0	
9	21.5	7.9	0.0	4.8	18.7	18.9	12.4	0.0	1021.9	0	0	0	0	355	2.4	2.9	340	18	1407	350	6	14	0.0	
10	23.6	7.6	0.0	3.8	18.7	18.9	13.7	0.0	1020.2	0	0	0	0	344	1.3	2.1	360	11	1608	350	4	12	0.0	
11	25.7	8.8	tr	5.5	18.9	18.9	12.6	0.0	1016.3	0	0	0	0	199	3.2	3.4	200	15	1748	200	8	17	0.2	
12	22.2	8.4	0.0	4.7	18.9	18.9	6.3	0.0	1009.6	0	0	0	0	233	4.8	5.3	260	22	1605	260	11	16	0.0	
13	21.6	9.9	7.9	7.0	18.5	18.9	5.1	0.0	1010.0	0	0	0	0	203	6.3	6.5	210	22	1430	210	12	14	3.8	
14	19.5	14.5	6.6	13.9	18.4	18.9	0.0	0.0	1001.9	0	0	0	0	189	8.1	8.7	230	25	2234	220	11	22	8.0	
15	21.7	15.2	10.4	14.8	18.3	18.9	1.9	0.0	996.0	0	0	0	0	221	8.0	8.7	220	27	1355	220	13	13	2.5	
16	19.4	10.5	0.0	7.3	18.3	18.8	8.9	0.0	1009.7	0	0	0	0	255	6.4	6.6	260	21	1326	260	9	13	0.0	
17	20.1	9.7	1.2	6.1	17.9	18.8	6.4	0.0	1016.9	0	0	0	0	240	5.3	5.6	270	20	1425	260	9	14	0.8	
18	19.3	14.2	5.9	11.2	18.2	18.7	1.0	0.0	1011.3	0	0	0	0	186	6.2	6.3	180	22	0924	190	10	11	7.4	
19	17.5	14.9	1.6	14.1	18.0	18.7	0.0	0.0	1006.4	0	0	0	0	281	5.1	5.9	300	20	1744	290	9	17	3.6	
20	16.4	12.2	0.2	11.6	17.8	18.7	0.1	0.0	1006.6	0	0	0	0	347	3.5	5.1	290	16	0051	20	8	16	0.3	
21	16.7	11.8	0.0	6.8	17.5	18.6	0.0	0.0	1013.8	0	0	0	0	1	7.0	7.1	10	22	1229	10	9	10	0.0	
22	17.4	14.0	2.5	12.4	17.2	18.5	0.1	0.0	1016.1	0	0	0	0	5	8.8	8.9	10	31	1131	360	11	10	1.2	
23	22.5	13.6	tr	12.8	17.1	18.4	0.9	0.0	1017.1	0	0	0	0	11	5.8	6.1	20	18	0104	20	9	14	0.0	
24	21.5	14.5	0.0	14.0	17.4	18.3	3.4	0.0	1024.8	0	0	0	0	28	2.6	3.7	30	15	0026	30	7	00	0.0	
25	26.4	9.7	0.0	5.8	17.6	18.3	13.5	0.0	1029.5	0	0	0	0	234	2.7	2.9	270	12	1345	240	5	17	0.0	
26	22.5	13.1	0.0	7.9	18.3	18.3	12.0	0.0	1029.9	0	0	0	0	354	2.9	3.2	10	15	0800	360	6	08	0.0	
27	19.3	7.6	0.0	4.6	18.3	18.3	9.2	0.0	1027.8	0	0	0	0	337	2.8	3.4	10	18	1528	350	7	13	0.0	
28	21.2	10.3	0.1	7.1	17.9	18.4	6.1	0.0	1023.6	0	0	0	0	44	2.7	3.0	60	13	1442	60	5	11	0.1	
29	20.0	13.1	0.0	11.8	18.3	18.4	8.4	0.0	1021.7	0	0	0	0	338	3.6	3.8	340	15	1538	330	6	15	0.0	
30	19.9	8.5	0.0	4.7	17.9	18.4	0.3	0.0	1022.6	0	0	0	0	294	3.8	4.3	300	17	1004	320	7	13	0.0	
31	20.2	10.8	0.0	6.7	17.5	18.4	2.3	0.0	1022.9	0	0	0	0	270	5.1	5.4	310	17	1233	290	8	09	0.0	
Total			36.8				208.3	0.0																28.4
Mean	21.4	11.2		8.3	18.3	18.6	6.72	0.0	1016.4					266	1.8	5.0								
Anom	-0.8	-0.8	72%	-0.1	+1.4	116%																		
Daily mean		16.3																						
Anom		-0.8																						

Number of days with:

Air frost = 0 Ground frost = 0 Nil sun = 3
Snow falling = 0 Snow lying = 0 Thunder = 0
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 2007

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	h	NChs	Date	Remarks	
1	82	3	10	02	05	18.3	10.7	61	8.0	1016.1	7	009	01	1	1	1	5	7	8	1						1	1Ac63 2Ac68 1Ci75 1Ci80 COTRA Ac flo	
2	75	7	28	02	06	17.3	11.8	70	8.7	1012.4	1	006	03	1	1	4	5	7	7	8	84656	86362	87270			2		
3	86	6	20	03	06	19.4	11.4	60	8.3	1022.4	0	006	02	1	1	1	1	6	0	1	81830	86080				3	COTRA Parhelia U/a cont Parhelic circ part	
4	84	1	21	08	15	20.5	11.7	57	8.5	1021.9	8	002	01	1	1	1	5	5	0	1	81625					4	1Ci80 COTRA Sc NW	
5	80	0	17	06	11	23.4	14.7	58	10.5	1011.7	7	021	02	0	0	0	0	9	0	0							5	
6	86	5	27	06	13	17.6	11.1	66	8.3	1009.5	1	005	03	6	2	1	1	5	7	2	81828	84075				6	1Ac62 1Cs70 COTRA Cu hum	
7	86	1	33	03	08	17.6	10.5	63	7.9	1016.0	1	006	03	0	0	1	2	5	0	1	81828					7	1Ci75 Cu med	
8	84	1	36	06	12	16.3	8.7	61	6.9	1020.6	2	001	01	0	0	1	1	5	3	1	81828					8	1Ac60 1Ci72 Cu hum	
9	82	6	36	02	07	16.5	9.4	63	7.3	1021.9	0	002	02	2	2	0	0	9	0	1	81075	86080				9	COTRA	
10	80	7	33	02	06	17.4	10.7	65	8.0	1020.2	4	000	02	2	2	0	0	9	0	1	87080					10	COTRA	
11	72	1	28	01	03	19.9	13.2	66	9.5	1016.3	7	007	02	0	0	1	0	9	3	0	81359						11	
12	80	7	21	05	12	16.9	13.2	79	9.5	1009.6	7	007	21	6	2	7	8	5	7	/	81820	83630	86650			12	/Ac60 Cu fra	
13	83	6	23	08	15	17.8	12.0	69	8.8	1010.0	2	004	03	1	1	6	8	5	/	/	82825	86656				13	Absent 13 to 27, vv and cld est.	
14	62	8	15	08	19	15.2	14.3	94	10.3	1001.9	7	025	60	6	2	8	5	3	/	/	87709	88618				14		
15	68	6	21	11	21	18.5	15.8	84	11.5	996.0	1	012	21	6	5	6	8	5	/	/	81820	86638				15		
16	82	5	28	07	14	15.4	9.2	66	7.3	1009.7	2	021	03	2	2	1	1	5	3	2	81825	84365				16	4Ci75	
17	82	7	25	05	10	15.8	11.3	75	8.3	1016.9	1	008	02	2	2	1	1	5	3	6	81820	87278				17	1Ac58	
18	82	4	19	09	19	17.9	12.5	71	9.1	1011.3	7	014	01	1	1	1	8	5	3	1	81820	83362				18	1Sc45 2Ci78	
19	80	8	29	05	10	16.0	14.2	89	10.2	1006.4	1	009	20	6	5	7	5	3	2	/	82708	86620	88457			19		
20	72	8	33	03	08	13.5	11.0	85	8.3	1006.6	8	008	02	5	2	8	5	4	/	/	82710	87615	88625			20		
21	62	8	36	07	17	14.0	12.5	91	9.1	1013.8	2	017	60	6	5	8	5	3	/	/	84708	88615				21		
22	70	7	36	12	25	15.4	11.5	78	8.4	1016.1	3	002	02	2	2	7	5	4	/	/	87618					22		
23	62	8	01	05	12	14.5	12.3	87	8.9	1017.1	3	005	02	2	2	8	5	4	/	/	88612					23		
24	62	7	01	05	09	16.1	12.9	81	9.2	1024.8	2	013	02	2	2	7	5	4	/	/	82612	85620	87640			24		
25	65	2	25	03	06	19.3	15.1	76	10.5	1029.5	1	009	03	0	0	1	1	5	0	1	81820					25	1Ci80	
26	75	3	01	04	14	18.5	13.8	74	9.7	1029.9	2	010	01	1	1	3	8	4	0	0	83818					26	2Sc45	
27	78	7	33	03	08	14.7	9.2	70	7.2	1027.8	0	000	02	2	2	1	1	5	0	2	81825	87075				27		
28	81	7	04	04	07	15.8	11.9	78	8.6	1023.6	1	002	02	2	2	1	1	5	7	1	81820	87368				28	2Ac66 COTRA Cu hum	
29	82	5	34	05	10	15.0	10.2	73	7.7	1021.7	1	009	01	2	2	5	8	5	3	0	81820	85645				29	1Ac57 Cu fra	
30	80	7	27	05	09	16.3	12.5	78	9.0	1022.6	2	001	02	2	2	7	5	4	/	/	82615	85620	87630			30		
31	88	7	28	07	13	17.3	11.6	69	8.5	1022.9	4	000	03	1	1	7	8	5	/	/	81825	87630				31	Cu hum	

Mean vis = 33.6 km

Mean cloud = 5.3 67%

Mean wind speed = 5.2 kn

Mean gust = 11 kn

Mean TT = 17.0 C

Mean TdDd = 12.0 C

Mean RH = 72.8 %

Mean r = 8.8 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

TdDd = 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 2007

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	NChshs	NChshs	NChshs	Date	Remarks	
1	81	4	22	02	08	22.2	7.4	38	6.4	1012.3	7	019	03	1	1	3	4	7	3	0	81850	83650	1	2Ac65 Cu hum		
2	81	7	29	04	09	18.5	11.1	62	8.2	1014.8	2	007	01	6	2	3	2	5	7	/	83825	87362	2	2Ac60 Cu med		
3	86	6	23	08	17	23.4	11.1	46	8.1	1021.7	7	003	03	1	1	1	7	0	1		81850	85080	3	2Ci75 COTRA Cu hum		
4	86	1	21	08	18	24.9	10.3	40	7.7	1019.6	7	012	02	0	0	0	0	0	1		81080		4			
5	82	4	19	08	17	27.9	13.1	40	9.4	1007.6	7	015	03	0	0	1	1	7	0	1	81856	84080	5	Absent, vv&cld est		
6	80	5	27	07	13	20.9	7.9	43	6.6	1010.9	2	007	15	1	1	3	8	7	6	0	82850	83360	6	2Sc56 Cu med jpS vv50k ex p		
7	84	6	02	06	11	19.5	8.5	49	6.8	1016.4	5	000	15	1	1	2	8	6	6	/	81845	84358	7	2Sc56 Cu med jp SW		
8	86	1	35	07	14	20.3	3.1	32	4.7	1019.8	7	006	02	0	0	1	1	7	0	1	81856		8	1Ci78 Cu hum		
9	81	7	36	06	17	20.5	8.6	46	6.9	1020.5	7	011	02	2	2	2	8	6	0	1	81848	86078	9	2Sc56 COTRA Cu hum U/a cont		
10	81	6	35	04	08	22.7	7.7	38	6.5	1018.3	7	007	02	2	2	1	1	7	0	1	81856	86080	10	COTRA Cu hum Parhelion		
11	80	3	18	03	13	24.4	9.2	38	7.2	1013.0	7	018	02	0	0	3	8	7	0	0	81850		11	2Sc56 Cu med		
12	86	6	25	08	16	21.3	9.5	47	7.4	1007.4	6	007	01	2	2	2	2	6	6	3	82835	85357	12	1Ci70 Cu med Cb top N		
13	83	7	21	09	19	19.6	10.1	54	7.7	1009.8	7	001	03	2	2	2	5	8	6	7	/	83840	83656	86358	13	Absent 13 to 27. vv&cld est
14	60	8	19	09	18	18.5	17.6	94	12.7	996.1	7	028	58	6	5	8	7	3	/	/	85707	88712	14			
15	75	7	22	13	26	18.8	13.6	72	9.8	996.4	3	004	25	8	2	7	8	5	3	1	83820	85640	15	2Ac62 3Ci75		
16	84	4	27	09	17	17.8	7.0	49	6.2	1010.2	1	010	02	1	1	2	8	6	6	0	81840	83360	16	2Sc50		
17	84	7	27	08	19	18.7	4.2	38	5.1	1017.1	0	000	02	1	1	1	2	7	6	1	81850	83357	87075	17		
18	56	8	18	10	18	15.8	11.5	92	10.3	1008.0	7	019	58	6	5	8	5	3	/	/	83709	85712	88615	18		
19	58	8	27	06	14	14.9	13.5	91	9.6	1007.3	3	005	58	6	5	8	5	3	/	/	83709	85615	88625	19		
20	81	8	02	05	13	15.0	11.0	77	8.2	1006.5	2	009	02	2	2	8	8	5	/	/	81825	86635	88650	20		
21	62	8	36	07	16	15.1	13.4	90	9.5	1015.8	0	007	20	5	2	8	5	4	/	/	85710	88615	21			
22	65	8	36	11	21	16.6	12.7	77	9.1	1015.5	7	006	15	8	2	8	5	5	/	/	81620	85635	88640	22		
23	75	4	02	10	17	21.1	12.0	56	8.7	1017.2	7	004	03	1	1	4	8	5	4	1	81825	84645	23	1Ac58 1Ci80		
24	65	5	04	02	07	20.2	13.7	66	9.6	1025.8	8	001	01	2	2	5	5	5	0	0	85625		24			
25	80	1	29	03	08	25.5	14.2	50	9.9	1027.7	7	012	02	0	0	1	1	6	0	1	81840		25	1Ci80		
26	82	2	34	02	09	22.0	8.3	41	6.7	1028.7	8	009	02	0	0	1	1	6	.	1	81848		26	2Ci80		
27	81	6	36	06	14	17.7	8.1	53	6.6	1024.8	7	015	02	1	1	3	4	6	3	1	83640	85075	27	2Ac68		
28	82	7	03	06	13	18.2	9.6	57	7.3	1021.1	7	012	03	2	2	7	8	6	/	1	82840	86357	28	2Sc56 /Ci80 COTRA Cu med		
29	84	2	35	06	13	18.4	8.6	53	6.9	1021.0	8	006	01	1	1	2	8	6	0	0	81840		29	1Sc50 Cu hum/med		
30	81	7	31	06	15	19.0	12.0	64	8.6	1022.6	0	000	02	2	2	7	5	6	/	/	87630		30			
31	88	7	29	06	14	18.8	11.9	64	8.6	1022.1	7	005	03	2	2	7	8	5	/	/	84828	87635	31	Cu hum		

Mean vis = 36.3 km

Mean cloud = 5.5 69%

Mean wind speed = 6.6 kn

Mean gust = 15 kn

Mean TT = 19.9 C

Mean TdTd = 10.3 C

Mean RH = 56.7 %

Mean r = 8.0 g/kg

Mean PPP = 1015.4 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 METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

Lat 51°25'N 00°51'W NGR (SU)798701 Altitude 46m ASL

Seasonal Means and Totals

SUMMER 2007

				Rank in the past 126 years			
Temperature (°C)							
Mean maximum	20.9	(-0.6)	54 th	lowest			
Mean minimum	11.8	(+0.3)	14 th	highest			
Daily mean	16.3	(-0.2)	46 th	highest			
Rainfall total (mm)	264.8	(180 %)	5 th	highest			
Sunshine total (hours)	517.2	(99 %)					
N ^o of:	Dry days 44 (-16)		Wet days 36 (+13)				
Days with: Air frost	0 (0)	Ground frost	0 (-2)	Snow falling	0 (0)	Snow lying	0 (0)
Thunder	7 (0)	Hail ≥5mm	1	Small hail/ice	1	Fog @09 GMT	0 (0) Nil sun 5
Air pressure MSL : Mean @09 GMT (mbar)	1013.5		(-3.6)				

Departure from 1971 to 2000 average shown in brackets.

Notes: **Very Wet. Temperature near normal. Dull.**

Temperature. This summer has been characterised by a notable absence of hot weather. The mean daily maximum is slightly below the long-term median, and is lowest since 1988. Conversely, temperatures by night were well above normal, and the resulting mean temperature is 0.2° above the long-term median. The absence of cool nights was such that the lowest temperature, 6.6° on the 31st July, is 2.3° above the median. A similar absence of hot days resulted in the highest maximum, 28.4° on the 5th July, being 1.9° below the median, so that the absolute range of temperature this season was greatly reduced, by 4.2°, compared with normal. The lowest maximum, 16.1° on the 24th June, is 1.8° above the median, and once again, taken together with the highest maximum, shows a greatly reduced range of maximum temperature, down 3.7° on normal. The highest minimum, 16.3° on the 16th July, is 0.7° below the median. The lowest grass min, 2.7° on the 28th June, is equal highest with 2002 since 1997. 18 of the past 28 summers have been free of ground frost. The mean earth temp at 30 cm depth, 18.1°, is close to normal. At 1m depth, the mean was 17.9°. There were only 6 days with a maximum >25° this season, compared with an average of 18 for the past 10 years, and there were 34 in 2006. **Rainfall.** Despite a relatively dry August, this summer will be remembered for its plentiful supply of rain, wettest since 1954 and 5th wettest in 126 years. Following on to May with 186 % of average, June had 199 % and July 287 % of average, and July was the wettest month with 119.1 mm of rain. But the most notable event of the summer was the heavy rain of the 20th July, when 63.5 mm fell between 00 and 12 GMT, most of it in the 4 hours up to midday. There was serious flooding locally, and considerable damage as a result to Emmbrook Secondary School. The rain rate reached 177 mm/hr during this event. Many areas locally and further afield received considerably more rain on the 20th than we did in Wokingham, with totals between 70 and 100 mm not uncommon. Also worthy of note is the thunderstorm of the 19th June, when 27.0 mm fell in under 15 minutes, and a rain rate near 500 mm/hr at 1830 GMT was measured. Another day with a high rainfall rate was the 2nd July when 123 mm/hr occurred at 1526 GMT. Despite the mayhem, there were respites, and a dry spell of 5 days ended on the 12th June, and another of 10 days on the 12th August, with a further one commencing on the 23rd. Thunder occurred on the 16th and 19th June, the latter with small hail, and on the 3rd, 9th, 15th, 19th and 20th of July, with hail on the 3rd. After the heavy rains of July, the estimated soil moisture deficit on both the 24th and 29th July was zero, the first time this has happened during summer since before 1976. **Sunshine.** This was the dullest summer since 2002. June had the lowest daily mean with 4.95 hours, 88 % of average, and August the highest with 6.72 hours, 116 % of average. The sunniest day was the 5th June, 14.6 hours. Overall there were 34 days with <3 hours, 39 with =>6 hours, 24 with =>9 hours and 11 with =>12 hours. **Wind.** The overall mean wind speed of 6.3 mph this summer is slightly above average and is highest since 1998. The windiest day was the 6th July, 13.7 mph, but the season's highest gust of 38 mph was on the 17th July. The 10th August was the least windy day, 2.4 mph, and there were 36.7 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,12 NE,7 E,4 SE,1 S,11 SW,35 W,16 NW,6. **Humidity.** The mean relative humidity was 75.2 %, and the lowest value recorded was 29 % on the 18th July and 8th August. The mean water vapour content per kg of air was 8.9 g at 0900 GMT and 8.1 g at 1500 GMT. **Pressure.** The mean air pressure is lowest since before 1976.

June. Very wet, sunshine well below and temperature well above normal, Mean min 2nd highest in 126 years. Highest max lowest since 1991. Earth temp at 30cm highest since 1992. Rainfall 7th highest in 126 years and most since 1998. Sunshine total lowest for any month this year after February.

July. Very wet, dull, below normal temperature. Highest max 10th lowest in 104 years, and lowest since 1988. Wettest July since 1957 and 7th wettest in 126 years. Extreme rainfall event and local flooding on 20th when 63.5 mm fell between 00 and 12 GMT. Windiest since 1993.

August. Temperature near and rainfall well below normal, sunny. Mean max and mean min both lowest since 1993.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom %	Sun hrs	Anom %	Wind Mn mph	Max gust	Mean pressure	Anom
June	20.7	+0.9	11.8	+1.7	108.9	199 %	148.5	88 %	6.1	32	1012.2	-4.8
July	20.7	-1.8	12.3	0.0	119.1	287 %	160.4	91 %	7.3	38	1011.8	-5.6
August	21.4	-0.8	11.2	-0.8	36.8	72 %	208.3	116 %	5.8	36	1016.4	-0.7