

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 2008

Temperature (°C / °F)			Anomaly	Rank in the past 127 years			
Mean maximum	20.8	69.4	-1.4	42 nd lowest			
Mean minimum	13.6	56.5	+1.6	3 rd highest			
Daily mean	17.2	63.0	+0.1	29 th highest			
Highest maximum	26.0	78.8	on 30 th	Lowest maximum	17.9	64.2	on 9 th
Highest minimum	16.5	61.7	on 29 th	Lowest minimum	7.1	44.8	on 15 th
Mean grass minimum	11.2	52.2		Lowest grass minimum	2.9	37.2	on 15 th
Mean earth @30 cm	18.6	65.5	+0.2	Earth @100 cm	18.5	65.3	
Frost duration (hrs)	0.0			Rain duration (hrs)	39.0		
Rainfall total (mm / in)	76.0	2.99	149 %	28 th highest			
Highest daily fall	17.7	0.70	on 31 st				
Number of: Dry days (<0.2mm)	9	Wet days (>0.9mm)	14	days ≥5mm	5		
Sunshine total (hrs)	109.5	Daily mean	3.53	61 %	Sunniest day	11.2	on 30 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	2
Air pressure MSL : Mean @09 GMT (mbar/in)	1010.9		-6.2	29.85			
Absolute highest	1022.8			30.20		on 27 th	
Absolute lowest	986.8			29.14		on 12 th	

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

Notes: **Warm, Wet, Very Dull and Quite Windy.**

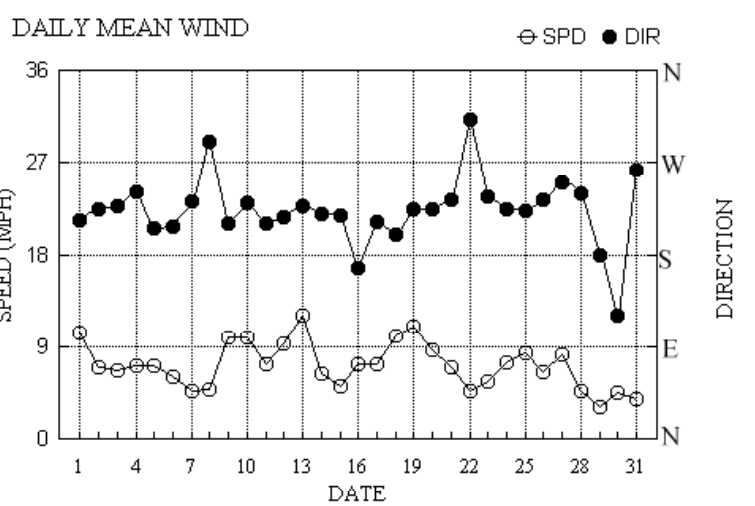
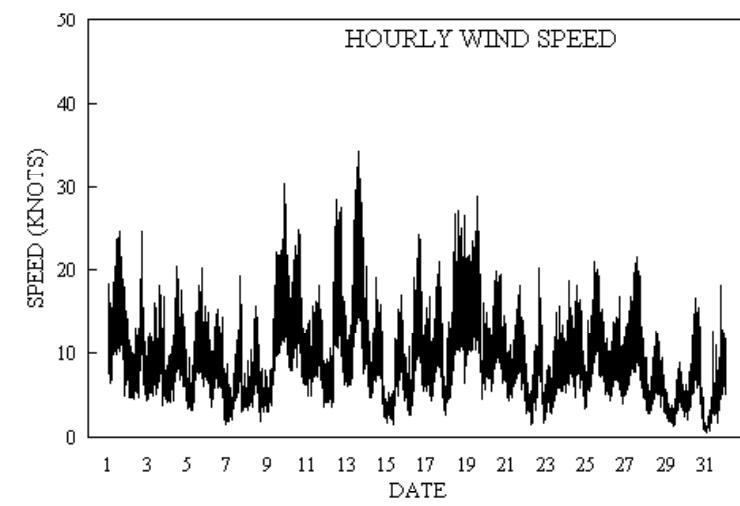
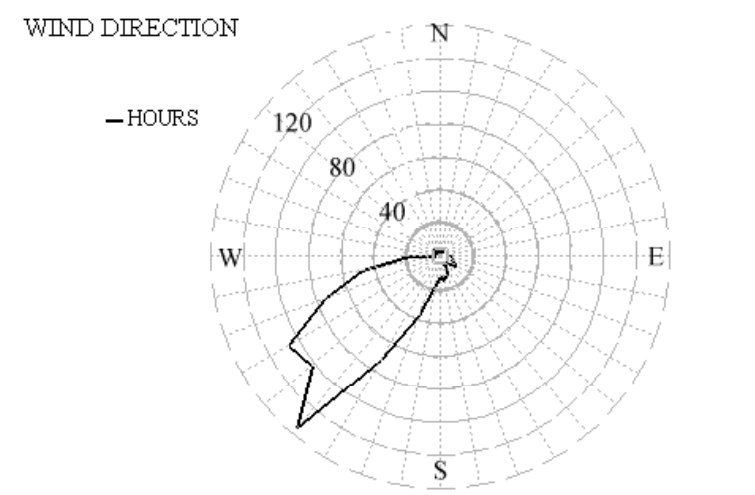
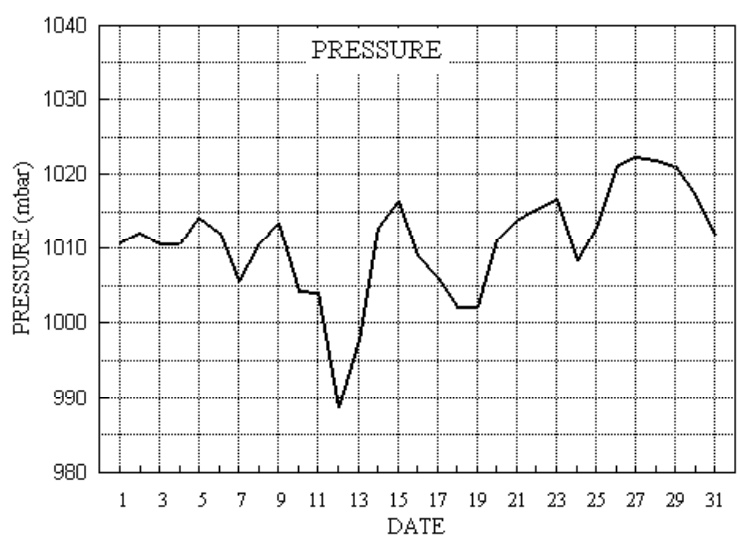
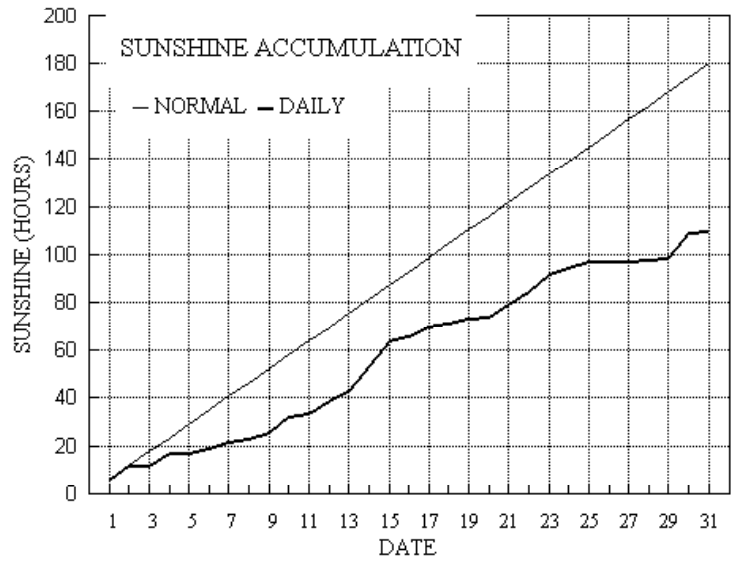
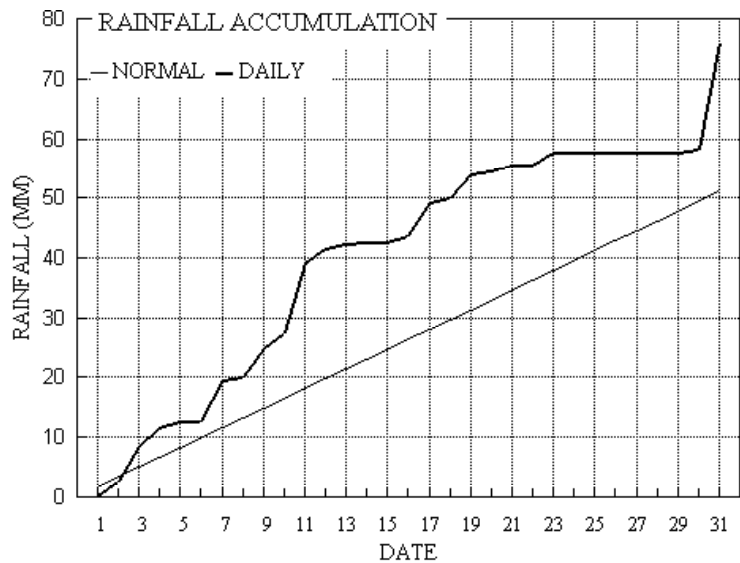
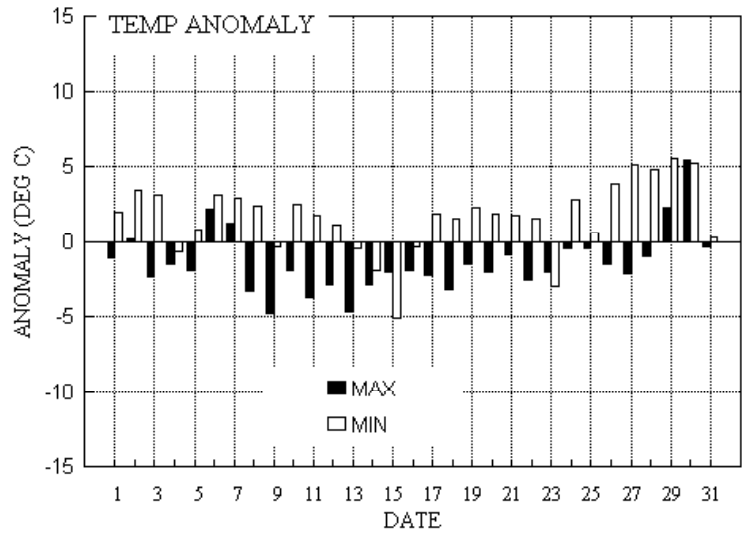
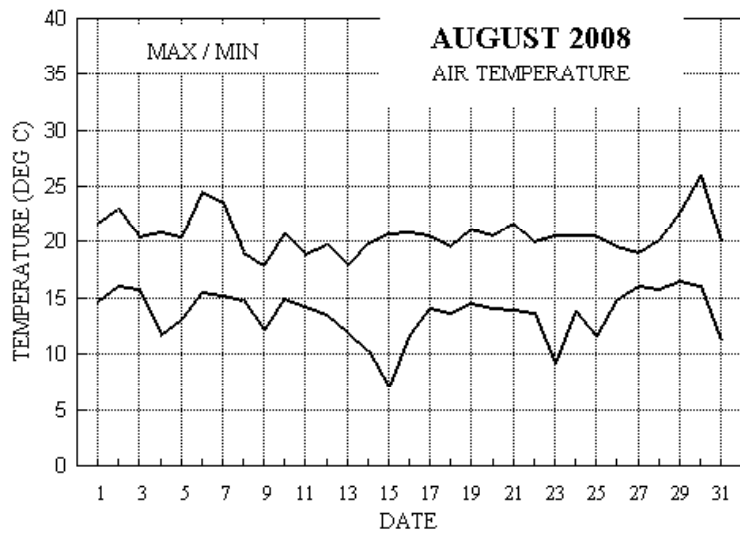
Temperature : Although the mean temperature is 0.1° above the current 30 year climatological average, it is 0.8° above the 127 year median, which puts it in the warm category. The mean maximum, however, is 0.3° below the median, and is lowest since 1988. Conversely, the mean minimum is 2.4° above the median and is 3rd highest in 127 years, after 2004 and 1997. The resulting daily mean temperature range of 7.2° is lowest since before 1976. The highest max is 1.9° below the median and lowest since 1993. The lowest max is 1.0° above the median. The highest min is 0.3° above the median, while the lowest min is 0.8° above its median. The mean grass min is highest since 1997. Earth temperatures are close to normal. **Rainfall :** The total for this wet August is highest since 2001, and is 23.7 mm above the long-term median. The highest 24 hour fall, however, is only 1.2 mm above its median. There was a dearth of dry days, 11 fewer than average, and equal lowest with 1992 since before 1976. However there were only 2 more days than average with 5 mm or more. The total duration of measurable rain is about 10 hours above average. Thunder occurred on the 12th and 31st. A rainfall rate of 85 mm/hr was recorded at 1238 GMT on the 2nd, and one of 107 mm/hr at 1536 GMT on the 31st. **Sunshine :** The sunshine total this month is exceptionally low, probably one of the dullest Augusts for over 100 years. The daily mean of 3.53 hours would only be above average for a month in the winter half year, and it is worth noting that only January and March have had a lower mean so far this year. Only 3 days had more than 50 % of the maximum, and 17 days had less than 20 %. Overall there were 16 days with <3 hours, 5 with =>6 hours and 3 with =>9 hours.. **Wind :** The overall mean wind speed of 7.1 mph is 1.3 mph above average and highest since 1992. The 13th was the windiest day, mean 12.0 mph, highest since 1994, and the month's highest gust of 39 mph was also on that day, and is highest since 1993. The 29th was the least windy day, mean 3.1 mph, and there were 290 minutes, 4.8 hours, with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,0 NE,0 E,0 SE,1 S,3 SW,23 W,3 NW,1. **Humidity :** The overall mean relative humidity was 76.6 %, and the lowest value was 36 % on the 23rd. The mean water vapour content per kg of air was 9.2 g at 0900 GMT and 8.8 g at 1500 GMT. **Pressure :** The mean air pressure is equal lowest with 2004 in the past 33 years, and the absolute minimum is lowest since 1992. **Commentary :** For the first week temperatures were near normal but there was only one dry day, the 6th, and rainfall accumulation was already 9 mm above average by the 7th. Sunshine was poor, with a deficit of 20 hours by the 7th. Winds were SW'ly, fresh on the 1st, then moderate, falling light on the 7th. From the 8th to the 23rd, temperatures were generally below normal, with daily anomalies for the max of -4.8° on the 9th and -4.7° on the 13th. There was plenty of rain, only the 15th and 22nd being dry days, and the accumulation was 20 mm above average by the 23rd. Apart from sunny days on the 14th and 15th it was generally dull, with a deficit of 40 hours by the 23rd. Winds were generally SW'ly, light until the 8th, then generally moderate or fresh, but light on the 15th and 23rd, and temporarily veering NW'ly on the 22nd. From the 24th to the end of the month, temperatures were near of above normal, with an anomaly for the max of +5.5° on the month's hottest day, the 30th. This period was mainly dry, the exception being the 31st which turned out to be the wettest day of the month. Sunshine still struggling, just one sunny day on the 30th. Winds were light or moderate SW'ly, but temporarily backing SE'ly on the 30th.

Table of mean anomalies for the specified periods, (max, min, rain, sun)

From the 1 st to the 10 th				From the 11 th to the 20 th				From the 21 st to the 31 st			
-1.3°	+1.9°	170 %	55 %	-2.7°	+0.3°	164 %	72 %	-0.3°	+2.6°	115 %	55 %

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

Wokingham Climatological Graphs for August 2008



Month: August 2008

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	21.7	14.7	0.3	12.1	19.5	18.7	5.5	0.0	1010.9	0	0	0	0	214	9.0	9.0	222	25	1415	212	12	12	1.0	
2	23.0	16.1	2.4	13.4	19.4	18.7	5.9	0.0	1012.1	0	0	0	0	225	5.3	6.0	275	25	1712	261	10	17	0.6	
3	20.5	15.8	5.8	11.2	19.3	18.7	0.4	0.0	1010.8	0	0	0	0	227	5.5	5.8	203	18	1420	227	8	08	3.7	
4	20.9	11.7	3.2	8.7	19.0	18.7	5.1	0.0	1010.8	0	0	0	0	241	6.1	6.1	257	21	1112	246	9	13	3.2	
5	20.5	13.2	1.1	9.1	18.9	18.7	0.0	0.0	1014.3	0	0	0	0	206	6.0	6.1	216	21	1704	209	9	13	1.4	
6	24.6	15.5	tr	17.3	18.9	18.7	2.0	0.0	1012.2	0	0	0	0	207	4.9	5.2	224	16	1238	215	7	00	0.1	
7	23.6	15.3	6.8	12.1	19.4	18.7	2.7	0.0	1005.7	0	0	0	0	232	3.9	4.1	236	20	1447	224	9	14	2.4	
8	19.1	14.8	0.5	10.7	19.4	18.7	1.1	0.0	1010.7	0	0	0	0	290	1.8	4.1	346	16	0929	340	7	09	0.4	
9	17.9	12.1	4.7	8.9	19.1	18.7	3.2	0.0	1013.4	0	0	0	0	211	8.6	8.6	214	30	1935	210	13	21	5.3	
10	20.8	15.0	2.7	12.9	18.6	18.7	6.1	0.0	1004.3	0	0	0	0	230	8.6	8.6	229	25	1331	231	12	14	0.7	
11	19.0	14.3	11.7	12.5	18.8	18.7	1.9	0.0	1004.1	0	0	0	0	210	5.6	6.4	210	18	1429	215	9	13	4.7	
12	19.8	13.6	2.5	12.7	18.7	18.7	4.9	0.0	988.7	0	0	0	1	217	6.5	8.0	218	29	1107	235	12	10	0.6	
13	18.0	12.0	0.6	9.7	18.4	18.6	3.9	0.0	997.7	0	0	0	0	228	10.2	10.4	240	34	1421	225	15	12	0.5	
14	19.9	10.3	0.3	6.2	18.0	18.6	11.1	0.0	1012.9	0	0	0	0	219	5.4	5.4	258	19	1139	197	9	13	0.4	
15	20.8	7.1	0.0	2.9	17.8	18.5	10.6	0.0	1016.5	0	0	0	0	218	4.1	4.5	199	17	1733	213	8	17	0.0	
16	20.9	11.8	1.2	9.5	18.0	18.4	2.0	0.0	1009.0	0	0	0	0	167	5.7	6.3	190	24	1458	195	11	12	1.0	
17	20.6	14.1	5.6	13.0	18.1	18.3	3.7	0.0	1006.0	0	0	0	0	212	5.4	6.3	213	21	1452	225	10	14	4.9	
18	19.6	13.7	0.6	13.2	18.2	18.3	1.4	0.0	1002.3	0	0	0	0	200	8.0	8.7	200	27	1354	206	13	13	0.5	
19	21.2	14.5	4.0	12.3	18.1	18.3	1.6	0.0	1002.3	0	0	0	0	225	9.5	9.6	229	29	1227	216	12	07	0.5	
20	20.7	14.1	0.7	12.4	18.2	18.3	0.8	0.0	1011.1	0	0	0	0	225	7.2	7.5	249	20	1122	212	9	15	0.7	
21	21.8	14.0	0.9	12.5	18.3	18.3	5.5	0.0	1013.9	0	0	0	0	234	5.9	6.0	243	18	1548	240	8	14	1.0	
22	20.1	13.7	0.0	9.4	18.6	18.3	5.5	0.0	1015.3	0	0	0	0	313	2.9	4.1	312	20	1549	307	8	15	0.0	
23	20.7	9.2	2.2	5.6	18.3	18.3	6.9	0.0	1016.6	0	0	0	0	237	4.3	4.8	239	16	1626	233	7	16	1.9	
24	20.7	13.8	0.1	13.2	18.5	18.3	3.1	0.0	1008.4	0	0	0	0	224	6.0	6.5	209	19	0242	246	8	15	0.2	
25	20.7	11.6	0.0	7.3	18.4	18.4	2.1	0.0	1012.9	0	0	0	0	222	7.2	7.3	219	21	1000	235	10	12	0.0	
26	19.7	14.9	0.0	12.4	18.4	18.4	0.0	0.0	1021.0	0	0	0	0	234	5.5	5.6	235	17	1541	223	7	09	0.0	
27	19.1	16.1	tr	13.3	18.4	18.4	0.1	0.0	1022.4	0	0	0	0	251	7.0	7.1	270	22	1339	259	10	13	0.0	
28	20.2	15.8	0.0	15.4	18.3	18.3	1.0	0.0	1022.0	0	0	0	0	240	3.9	4.1	267	13	1256	259	6	14	0.0	
29	22.8	16.5	0.0	16.7	18.6	18.3	0.1	0.0	1021.0	0	0	0	0	179	2.0	2.7	174	9	1654	177	5	16	0.0	
30	26.0	16.1	0.4	13.0	19.1	18.4	11.2	0.0	1017.1	0	0	0	0	120	3.5	3.9	79	17	1151	102	7	12	0.4	
31	20.1	11.2	17.7	7.3	19.2	18.4	0.1	0.0	1011.8	0	0	0	1	263	1.7	3.3	261	18	1831	261	7	18	2.9	
Total			76.0				109.5	0.0																39.0
Mean	20.8	13.6		11.2	18.6	18.5	3.53	0.0	1010.9					222	5.2	6.2								
Anom	-1.4	+1.6	149%		+0.2	+1.3	61%																	

Daily mean 17.2 Pressure, abs highest = 1022.8 on 27
 Anom +0.1 Pressure, abs lowest = 986.8 on 12

Number of days with:

Air frost = 0 Ground frost = 0 Nil sun = 2
 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 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks								
1	78	6	22	10	21	18.0	12.2	69	8.8	1010.9	2	010	15	1	1	6	8	5	0	0	85820	1	2Sc35	Cu med	jp	SW		
2	58	8	19	06	13	17.5	15.2	86	10.7	1012.1	7	003	58	6	5	8	8	3	/	/	82708	83812	85625	2	8Sc40	Cu med		
3	80	7	23	08	16	19.8	14.9	73	10.5	1010.8	7	003	80	6	2	6	8	4	3	1	83815	84635	85358	3	/Ci75	Cu med	vv	60k ex p
4	78	3	23	07	14	18.1	13.1	73	9.5	1010.8	0	005	03	0	0	3	8	4	0	1	83818			4	1Sc35	1Ci75	Cu med	
5	58	8	19	06	11	15.4	14.1	92	10.0	1014.3	7	005	63	6	5	7	7	2	2	/	83705	87708	88520	5				
6	81	7	21	06	11	20.3	16.2	78	11.3	1012.2	3	005	01	2	2	7	8	4	/	1	83815	87630		6	/Ci75	Cu hum/fra		
7	62	7	22	04	10	18.3	15.3	83	10.8	1005.7	0	000	60	6	2	6	8	4	8	/	82812	85618	85359	7	/Ac65	Cu fra		
8	75	7	33	06	14	15.7	13.3	86	9.5	1010.7	3	027	01	6	2	7	8	4	/	/	81710	84812	87630	8	Cu hum/med			
9	82	7	22	08	16	16.7	10.7	68	8.0	1013.4	7	010	03	1	1	1	8	5	7	1	81822	86363		9	1Sc35	2Ac59	Cu fra/hum	
10	81	6	23	12	21	17.5	11.8	69	8.7	1004.3	0	006	03	1	1	6	8	5	0	0	81822	85656		10	2Sc45	Cu fra/hum		
11	78	7	22	08	13	16.7	11.7	72	8.6	1004.1	0	000	03	1	1	7	8	5	/	1	81820	87650		11	2Sc45	/Ci75	Cu fra	
12	88	4	23	11	25	17.3	13.2	77	9.9	988.7	3	016	03	6	1	4	2	5	0	1	84820			12	1Ci75	Cu med		
13	70	7	23	14	26	16.7	9.5	63	7.5	997.7	1	004	15	1	1	5	8	5	7	/	83825	83650	86360	13	Cu med	jp	NW	
14	80	2	22	07	13	16.7	9.7	63	7.5	1012.9	1	007	03	0	0	1	2	5	3	1	81826			14	1Ac65	1Ci80	COTRA	Cu med
15	86	2	31	02	05	16.2	9.1	62	7.0	1016.5	7	002	03	0	0	1	1	5	0	1	81828			15	2Ci80	COTRA	Cu hum	
16	82	7	19	06	13	17.5	11.9	69	8.7	1009.0	7	009	03	2	2	3	2	5	7	1	83820	86362		16	2Ac60	/Ac65	/Ci75	Cu med
17	80	4	23	07	13	16.7	11.4	71	8.4	1006.0	1	016	03	1	1	4	8	4	0	9	81818	84822		17	1Sc45	1Cc72	Cu fra/med	
18	84	3	23	12	22	17.9	12.4	70	8.9	1002.3	3	074	03	6	1	2	8	5	0	1	82822			18	1Sc45	1Ci80	COTRA	Cu med
19	72	7	22	13	22	16.7	11.6	72	8.5	1002.3	3	005	03	2	2	6	8	5	7	/	81820	86625	87365	19	/Ac62	Cu hum		
20	80	7	24	07	13	17.3	12.3	72	8.7	1011.1	2	015	03	2	2	3	8	4	7	/	83818	87358		20	1Sc40	Cu med		
21	80	6	23	06	11	17.7	12.4	71	8.9	1013.9	1	008	03	2	2	2	8	5	3	0	82820	85358		21	1Sc50	Cu med		
22	80	7	02	05	10	15.3	10.9	75	8.1	1015.3	1	007	01	6	2	5	8	4	3	0	81815	85645		22	3Ac60	Cu fra/hum		
23	88	1	29	04	10	16.5	9.1	61	7.2	1016.6	8	003	03	1	1	1	8	5	0	1	81828			23	1Sc50	1Ci80	COTRA	Cu hum
24	50	8	19	06	13	15.6	14.3	91	10.1	1008.4	4	000	51	6	5	8	5	2	/	/	82705	87707	88620	24				
25	75	8	23	08	15	17.5	13.5	77	9.5	1012.9	1	003	20	5	2	8	8	4	/	/	81715	86818	88625	25	Cu hum/fra			
26	82	8	24	06	12	17.3	13.2	76	9.2	1021.0	2	010	02	2	2	8	5	4	/	/	84618	88622		26				
27	65	8	25	09	17	17.3	12.6	74	9.0	1022.4	2	006	02	2	2	8	5	4	/	/	85617	88620		27				
28	75	8	26	04	09	16.8	13.3	80	9.3	1022.0	1	002	20	5	2	8	8	4	/	/	85812	88618		28	Cu hum			
29	72	7	36	01	03	19.4	15.2	77	10.5	1021.0	4	000	03	2	2	7	8	4	/	/	83818	87635		29	Absent	29&30	Vis&cld	est
30	50	4	11	06	12	20.7	15.2	71	10.5	1017.1	8	003	05	1	1	4	8	4	0	0	83818			30	2Sc35			
31	10	8	26	02	08	14.7	14.2	96	10.0	1011.8	0	010	92	9	6	6	7	0	7	/	86701	88362		31	T 0847	REFG		

Mean vis = 28.9 km

Mean cloud = 6.1 76%

Mean wind speed = 7.0 kn

Mean gust = 14 kn

Mean TT = 17.3 °C

Mean TdTd = 12.7 °C

Mean RH = 74.7 %

Mean r = 9.2 g/kg

Mean PPP = 1010.9 mbar

VV = Visibility code (Code FM12-4377)

N = Total cloud amount, oktas

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

ff = 10 minute mean wind speed, knots

gg = Highest gust in past hour, knots

TT = Air temperature at 1.2 m, deg Celsius

TdTd = Dew point temperature at 1.2 m, deg Celsius

RH = Relative humidity at 1.2 m

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

PPP = Air pressure reduced to sea level, mbar

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

ppp = 3 hr pressure tendency, tenths of mbar

ww = Present weather code (Code FM12-4677)

W1, W2 = Past weather code (Code FM12-4561)-
covers past 3 hours.

Nh = Amount of low cloud present, oktas

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

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

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

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

8 groups. 8 = indicator for cloud detail

N = Amount of cloud, oktas

C = Type of cloud (FM12-0500)

hshs= Height of cloud (FM12-1677)

Remarks : COTRA = persistent condensation

trails present.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for August 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	68	6	20	12	25	21.5	12.2	55	8.8	1012.3	0	005	15	8	2	6	8	6	6	84830	83656	1	1Ac57 jp W&NW Cu med		
2	84	3	25	09	16	22.6	12.8	54	9.1	1011.4	7	001	01	8	1	2	8	6	0	1	81835		2	1Sc50 2Ci78 Absent vv&cld est	
3	86	8	23	07	18	20.1	14.0	68	9.9	1009.0	7	016	02	8	2	6	8	5	3	8	83820	84640	85365	3	/Ci70 Cu med
4	82	7	24	06	14	19.3	12.2	64	8.8	1012.0	1	004	02	8	2	6	8	6	0	1	82830	85656	85078	4	2Sc45 COTRA Cu med
5	70	8	21	09	17	18.8	16.0	84	11.3	1013.3	6	005	60	6	2	8	5	4	/	/	84710	87713	88620	5	
6	86	7	17	06	13	24.1	14.6	55	10.1	1009.8	8	010	02	2	2	1	1	6	3	1	81835	87365	86075	6	Cu hum
7	86	6	24	10	20	20.9	12.5	58	9.1	1004.0	5	005	03	1	1	4	8	6	6	/	83838	84359		7	2Sc56 Cu med/con
8	84	8	34	03	07	17.1	12.1	72	8.8	1015.1	1	005	01	6	5	7	8	4	/	1	81712	83630	87640	8	2Cu18 Cu hum
9	80	8	21	11	21	16.5	14.8	90	10.4	1010.3	7	021	61	6	2	8	5	3	/	/	81708	86710	88618	9	
10	60	7	24	12	23	19.5	11.7	60	8.6	1003.1	7	004	80	8	2	5	8	6	6	/	84830	83358		10	2Sc50 Cu med jp all quads
11	83	8	21	07	18	17.7	10.0	61	7.7	1002.0	7	015	02	2	2	7	8	6	1	/	81835	87650		11	1Sc40 /As65 Cu med
12	75	3	21	12	27	18.7	10.5	59	8.0	991.5	1	010	15	8	1	3	9	5	6	3	81925	83830		12	1Ac60 1Ci70 jp W-NW
13	82	7	24	13	34	17.7	11.5	67	8.5	1001.4	3	028	15	8	2	3	8	5	6	2	82825	84075		13	2Sc50 2Ac62 Cu med/con jp S N&NW
14	75	5	21	08	13	17.6	8.9	57	7.0	1012.6	4	000	25	8	1	2	9	6	6	3	81935	81840	84070	14	1Sc50 1Ac62 Cb all quads vv 50k ex p
15	86	7	23	07	15	20.0	6.9	43	6.0	1015.0	7	013	03	1	1	2	4	7	0	6	82850	83275	87080	15	1Sc50 COTRA U/a cont
16	82	7	19	10	24	20.2	8.2	46	7.0	1006.7	7	007	02	2	2	1	1	6	7	1	81845	83362	86365	16	/Ci75 Cu hum
17	84	7	22	10	21	17.8	8.9	56	7.2	1006.7	2	005	03	1	1	2	8	6	7	/	82835	86362		17	1Sc56 /Ac65
18	57	8	19	11	21	16.9	14.1	84	10.1	1002.4	7	002	58	6	5	8	5	4	/	/	82712	87620	88635	18	
19	70	6	23	11	20	20.2	12.0	59	8.6	1003.2	0	002	15	2	2	6	8	6	3	/	84830	83650		19	/Ac62 Cu med jpS NW&N vv50k ex p
20	82	7	22	10	19	19.1	11.3	61	8.3	1012.3	1	005	02	2	2	7	8	6	3	1	81830	83835	87650	20	/Ac58 /Ci75 Cuhum/fra
21	83	6	25	08	17	20.6	10.3	52	7.7	1013.9	8	004	02	2	2	2	8	6	3	1	82840	85075		21	1Sc50 1Ac65 Cotra Cu med Halo 22 part
22	82	5	31	08	15	19.2	6.3	43	5.9	1014.2	2	003	01	2	2	2	2	6	6	0	82848	84357		22	Cu med
23	84	7	25	06	12	18.8	7.0	46	6.0	1014.3	7	012	02	1	1	7	8	6	/	1	81845	87656		23	/Ci80 Cu hum
24	83	7	25	07	16	19.0	12.0	64	8.8	1009.5	2	009	02	2	2	7	8	6	/	1	81832	83650	86656	24	/Ci80 Cu med
25	80	7	23	09	19	19.7	14.1	70	10.2	1014.1	2	005	01	2	2	7	5	5	/	/	85620	87625		25	
26	82	8	23	07	14	19.1	13.8	71	9.6	1021.5	5	002	02	2	2	8	8	4	/	/	82819	88622		26	Cu hum
27	75	7	26	10	20	18.7	12.1	65	8.5	1021.7	7	003	02	2	2	7	5	5	/	/	85622	87625		27	
28	75	8	25	06	12	19.7	14.1	70	9.8	1020.7	8	008	02	2	2	8	5	5	/	/	88620			28	Absent 28-30 Vis&cld est
29	81	7	17	03	07	22.2	14.7	63	10.2	1019.5	7	012	02	2	2	7	8	5	/	/	82828	87638		29	
30	78	1	12	05	15	25.7	13.5	47	9.8	1013.4	7	019	02	0	0	1	1	6	0	0	81845			30	
31	22	7	35	04	08	18.6	17.5	93	12.4	1009.2	7	009	80	8	2	5	8	3	7	1	82708	83812	85362	31	2Sc40 /Ci75 COTRA Cu con

Mean vis = 36.0 km

Mean cloud = 6.5 82%

Mean wind speed = 8.3 kn

Mean gust = 17 kn

Mean TT = 19.6 °C

Mean TdTd = 12.0 °C

Mean RH = 62.5 %

Mean r = 8.8 g/kg

Mean PPP = 1010.5 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.

Aug 2008	T mn	Tx	Time	Tn	Time	RHmn	RH x	Time	RH n	Time	Tdmn	r mn	r x	Time	r n	Time	p mn	p x	Time	p n	Time	R tot
1	17.96	21.9	1300	14.5	444	70.70	86.7	445	52.3	1303	12.38	8.94	11.3	11	7.9	1717	1011.42	1014.1	2111	1006.6	1	0.0
2	18.23	23.3	1536	15.8	2251	74.50	90.9	140	35.9	1647	13.18	9.49	13.3	1319	6.0	1648	1012.39	1013.7	2221	1011.2	1518	2.8
3	16.91	21.0	823	12.6	2351	84.80	93.5	2352	66.5	1620	14.28	10.14	11.8	1136	8.4	2348	1010.00	1013.5	33	1006.9	1810	5.7
4	16.22	21.1	1519	11.5	454	76.10	94.3	532	51.7	1737	11.75	8.57	10.2	1155	7.4	1738	1011.49	1014.6	2341	1008.1	29	0.4
5	16.67	19.6	1426	12.8	44	86.50	93.2	837	78.4	1726	14.40	10.21	12.3	1340	8.1	44	1013.81	1014.8	609	1012.8	1908	4.1
6	19.89	24.7	1520	16.5	2142	78.00	92.8	2148	49.9	1422	15.73	11.10	12.5	1225	9.3	1422	1010.86	1013.1	146	1008.1	2153	0.0
7	17.83	23.8	1241	14.7	2310	80.50	94.5	132	43.2	1313	14.14	10.09	11.5	1802	7.7	1232	1005.38	1008.4	0	1003.7	1427	5.2
8	16.24	18.8	1715	14.7	2358	82.10	92.1	538	56.8	1618	13.10	9.36	10.4	813	7.3	1620	1011.96	1016.2	2241	1006.0	29	2.0
9	15.45	17.4	930	11.9	440	86.70	93.4	454	64.1	931	13.20	9.46	10.9	1607	7.6	750	1011.25	1015.8	6	1004.7	2356	3.6
10	17.00	20.8	1445	15.0	545	78.60	92.7	234	56.4	1437	13.12	9.47	11.3	312	8.1	837	1003.92	1005.1	2024	1002.5	259	3.7
11	16.17	19.0	1017	14.0	2341	71.80	85.6	451	50.5	1017	10.93	8.19	9.1	35	6.8	1017	1002.05	1004.8	11	994.6	2359	0.0
12	15.40	19.9	1511	12.1	2352	77.10	94.2	704	49.0	1645	11.15	8.43	10.6	734	6.7	1734	991.51	996.5	2332	986.8	644	13.1
13	14.47	17.9	1506	11.7	329	76.90	88.8	311	59.7	1019	10.41	7.92	9.6	1322	7.0	2352	1001.11	1010.3	2359	996.3	2	0.9
14	14.36	19.6	1139	9.1	2338	72.60	93.6	2354	44.6	1257	9.17	7.21	8.7	1603	5.9	1252	1012.77	1015.5	2340	1010.1	1	0.4
15	14.31	20.9	1410	7.2	527	69.86	95.7	613	36.5	1332	8.19	6.74	8.3	818	5.4	1332	1015.44	1017.0	655	1013.1	2354	0.1
16	16.46	21.1	1247	11.7	519	66.75	92.0	535	37.9	1326	9.80	7.58	9.3	756	5.6	1327	1008.04	1013.2	3	1004.3	2359	0.0
17	16.10	20.7	1332	13.5	2308	72.70	91.7	500	40.5	1144	10.87	8.18	10.0	335	5.6	1144	1005.71	1007.8	2030	1002.6	309	2.4
18	16.29	19.8	1101	13.5	20	81.90	93.9	644	57.4	1103	13.10	9.45	11.3	716	8.0	1123	1002.48	1006.4	0	1001.0	710	4.7
19	16.52	21.3	1258	14.4	402	75.80	89.9	1830	54.1	1252	12.12	8.86	10.5	1829	8.0	351	1003.67	1008.4	2359	1001.3	357	3.7
20	16.42	20.7	1317	13.9	143	76.70	91.9	1954	47.5	1231	12.11	8.79	10.1	2020	6.8	1208	1011.10	1012.7	1625	1008.1	25	0.4
21	17.41	21.8	1404	13.9	2357	70.70	91.5	540	44.1	1406	11.67	8.52	10.0	724	6.9	1618	1013.88	1015.7	2154	1012.1	47	0.4
22	15.33	20.3	1410	9.3	2155	68.47	93.4	628	37.9	1547	9.05	7.24	9.5	704	5.1	1649	1015.08	1017.5	2227	1014.0	1210	0.9
23	15.03	20.5	1247	9.3	444	64.76	88.0	509	35.9	1202	8.01	6.67	8.3	2357	5.0	1144	1015.03	1017.2	16	1011.0	2359	0.0
24	16.01	20.9	1145	11.2	2232	74.90	92.8	956	50.7	1729	11.34	8.40	11.3	1024	6.6	2007	1009.77	1012.6	2235	1008.1	705	2.2
25	17.05	20.9	1629	13.1	0	78.60	89.9	2358	66.1	1630	13.26	9.45	10.8	1628	7.6	0	1013.97	1018.0	2359	1011.9	119	0.0
26	17.25	19.7	1346	14.8	4	77.10	90.1	5	66.2	1347	13.20	9.33	10.3	1603	8.9	2232	1020.88	1022.8	2157	1017.8	0	0.0
27	17.16	19.2	1540	15.8	2356	77.40	86.9	2347	64.4	1456	13.13	9.28	10.0	1038	8.5	1448	1021.99	1022.8	2155	1021.2	503	0.1
28	17.51	20.2	1418	15.6	536	81.40	90.5	606	66.8	1411	14.23	9.98	10.8	2329	9.1	910	1021.19	1022.3	1	1019.8	1835	0.0
29	19.45	22.8	1515	16.9	532	76.10	88.5	550	60.5	1518	15.02	10.50	11.4	943	9.5	1146	1020.12	1021.2	830	1018.7	1608	0.0
30	19.90	26.2	1506	13.0	2352	71.20	94.7	2348	40.8	1528	14.04	9.92	11.9	1007	8.4	1540	1015.37	1019.1	0	1012.1	2359	0.0
31	15.12	19.8	1419	11.1	248	94.00	96.6	903	86.3	2310	14.18	10.13	13.4	1419	7.8	2357	1010.82	1013.1	740	1008.7	1536	16.1
Total																						72.9
Mean	16.65	20.82		13.06		76.62	91.75		53.30		12.27	8.95	10.65		7.32		1010.79	1013.68		1007.87		
Max	19.90	26.24		16.93		94.00	96.60		86.30		15.73	11.10	13.36		9.45		1021.99	1022.81		1021.22		
Min	14.31	17.42		7.19		64.76	85.60		35.86		8.01	6.67	8.25		5.02		991.51	996.53		986.82		

Wokingham Automatic Weather Station

AWS samples taken every 0.5 seconds

x and n refer to maximum and minimum respectively

Readings taken at Wokingham Climatological Station, Emmbrook, Berkshire

Lat 51.425 N, Long 0.853 W, NGR (SU) 798701

Altitude 45 m ASL.

Tmn = 00 to 24 GMT mean air temperature at 1.2 m, deg C

RHmn = 00-24 GMT mean relative humidity at 1.2 m, percent

TDmn = 00-24 GMT mean dew point at 1.2 m, deg C

rmn = 00-24 GMT mean humidity mixing ratio, g/kg

pmn = 00-24 GMT mean air pressure reduced to mean sea level, mbar

Rtot = 00-24 GMT rainfall total from AWS tipping bucket raingauge, mm

Time = hours and minutes in GMT of extreme values

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 2008

				Rank in the past 127 years			
Temperature (°C)							
Mean maximum	21.0	(-0.5)		63 rd	highest		
Mean minimum	12.2	(+0.7)		7 th	highest		
Daily mean	16.6	(+0.1)		31 st	highest		
Rainfall total (mm)	200.8	(136 %)		35 th	highest		
Sunshine total (hours)	517.1	(96 %)					
N ^o of:							
	Dry days	51 (-9)		Wet days	30 (+7)		
Days with: Air frost	0 (0)		Ground frost	0 (-2)		Snow falling	0 (0)
						Snow lying	0 (0)
Thunder	8 (+1)		Hail ≥5mm	0		Small hail/ice	1
						Fog @09 GMT	0 (0)
						Nil sun	5
Air pressure MSL : Mean @09 GMT (mbar)	1014.0				(-3.1)		

Departure from 1971 to 2000 average shown in brackets.

Notes: *Warm,* *Wet,* *Dull.*

Temperature : While the mean temperature this summer is 0.6° above the long-term median, it is only 0.1° above the current climatological average for 1971-2000. In fact, the mean temperature for the 32 year period 1976-2007 is 16.7°, a rise of 0.2° on the 1971-2000 value. The mean maximum is exactly on the median, while the mean minimum is 1.2° above its median and is 7th highest in 127 years. The resulting daily mean temperature range of 8.8° is equal lowest with 1988 in the past 33 years. The highest max, 28.7° on the 28th July, is 1.6° below the median, and once again, as in the summer of 2007, the temperature failed to reach 30°, a value exceeded in 63 out of the past 105 years. The lowest maximum, 15.3° on the 3rd June, is 0.9° above the median. The highest min, 16.6° on the 15th July, is 0.4° below the median, while the lowest min, 6.3° on the 16th June, is 2.0° above the median and ranks 7th highest in 105 years. The lowest grass min, 2.0° on the 22nd July, is 1.4° above average. The mean earth temperature at 30 cm depth was 18.2°, and at 1 m depth, 17.7°, both a little above average. June was the coolest month, with July and August having the same mean temperature. However, the mean daily maximum was highest in July and lowest in June. **Rainfall :** This has been a summer with an adequate supply of rain, without the excesses of 2007, which was the 5th wettest in 126 years. However, as the characteristic of summer rainfall is for it to appear in short, intense showers, the records show that this year there were also several dry periods. June came off best in this respect with 23 dry days and 3 dry spells, one of 7 days ending on the 10th, one of 5 days ending on the 17th and one of 6 days ending on the 26th. July had 19 dry days and 2 dry spells, one of 5 days ending on the 17th and of 9 days ending on the 27th. August fared the worst with just 9 dry days and one 6 day dry spell ending on the 29th. August was also the wettest month, with 76.0 mm, and June the driest with 54.6 mm. The wettest day of the season was the 2nd June with 30.1 mm. Notable rainfall rates were 177 mm/hr at 1527 GMT on the 7th July, and 107 mm/hr at 1536 GMT on the 31st August. **Sunshine :** The impression of this having been a dull summer overall is mainly due to the aftertaste left by one of the dullest Augusts in the past century. Both June and July had above average sunshine amounts, with June the best with 215.2 hours. The sunniest days were the 9th of June and the 30th July, both with 14.2 hours. Overall there were 30 days with <3 hours, 40 with =>6 hours, 20 with =>9 hours and 9 with =>12 hours. The best spell of sunny weather was the 5th to 10th of June, the 6 days producing 67.5 hours of sun, a daily mean of 11.3 hours. **Wind :** The overall mean wind speed was 6.7 mph, 0.6 mph above average and highest since 1994. The windiest day was the 22nd June, mean speed 13.1 mph, but the season's highest gust of 39 mph was on the 13th August. The 9th June was the least windy day, mean 2.6 mph, and there were 1529 minutes, 25.5 hours, with a mean speed of 0.5 mph or less. Daily mean direction/number of days : N,4 NE,3 E,2 SE,4 S,10 SW,47 W,14 NW,8. **Humidity :** The overall mean relative humidity was 71.9 %. The lowest value was 29 % on the 24th July. The mean water vapour content per kg of air was 8.4 g at 0900 GMT and 7.9 g at 1500 GMT. **Pressure :** The highest pressure this summer was 1027.2 mbar on the 22nd July, while the lowest was 986.8 mbar on the 12th August. This latter is lowest for this season since 1992.

June : Temperature and sunshine above normal, rainfall near normal. Highest max lowest since 1991. 30.1 mm of rain on 2nd is most in June since 1994, and some local flooding ensued.

July : Temperature, rainfall and sunshine near normal. Grass min of 2.0° on the 22nd is lowest since 1993.

August : Warm, wet, very dull and quite windy. Mean max lowest since 1988. Mean min 3rd highest in 127 years. Mean daily temp range lowest since before 1976. Highest max is lowest since 1993. Number of dry days equal lowest with 1992 in past 33 years. Exceptionally low sunshine total, probably one of the dullest Augusts for over 100 years. Windiest since 1992. Windiest day highest since 1994, maximum gust highest since 1993. Mean air pressure equal lowest with 2004 in past 33 years.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Wind Mn mph	Max gust	Mean pressure	Anom
June	20.2	+0.4	10.6	+0.5	54.6	100 %	215.2	124 %	6.2	37	1017.2	+0.2
July	22.0	-0.5	12.4	+0.1	70.2	169 %	192.4	109 %	6.6	35	1014.0	-3.4
August	20.8	-1.4	13.6	+1.6	76.0	149 %	109.5	61 %	7.1	39	1010.9	-6.2