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 — FEBRUARY 2008

Temperature (°C / °F)			Anomaly	Rank in past **127** years			
Mean maximum	11.1	52.0	+3.2	5th highest			
Mean minimum	0.3	32.5	-1.0	40th lowest			
Daily mean	5.7	42.3	+1.1	39th highest			
Highest maximum	15.4	59.7	on 9th	Lowest maximum	5.1	41.2	on 14th
Highest minimum	8.2	46.8	on 24th	Lowest minimum	-7.0	19.4	on 17th
Mean grass minimum	-3.4	25.9		Lowest grass minimum	-12.0	10.4	on 17th
Mean earth @30 cm	5.4	41.7	+0.3	Earth @100 cm	8.0	46.4	
Frost duration (hrs)	111.0			Rain duration (hrs)	17.2		
Rainfall total (mm / in)	22.0	0.87	53 %	34th lowest			
Highest daily fall	5.6	0.22	on 25th				

Number of: Dry days (<0.2mm)	22	Wet days (>0.9mm)	5	days ≥5mm	1					
Sunshine total (hrs)	149.5	Daily mean	5.16	215 %	Sunniest day	9.7	on 18th			
N° days with: Air frost	13	Ground frost	22	Snow falling	0	Snow lying	0			
Thunder	1	Hail ≥5mm	0	Small hail/ice	0	Fog @09	1	Nil sun	3	

Air pressure MSL : Mean @09 GMT (mbar/in)	1023.8	+7.1	30.23	
Absolute highest	1043.5		30.81	on 16th
Absolute lowest	987.5		29.16	on 4th

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

Notes: **Mean Temperature Well Above Normal with Exceptional Daily Range, Dry, Very Sunny.**

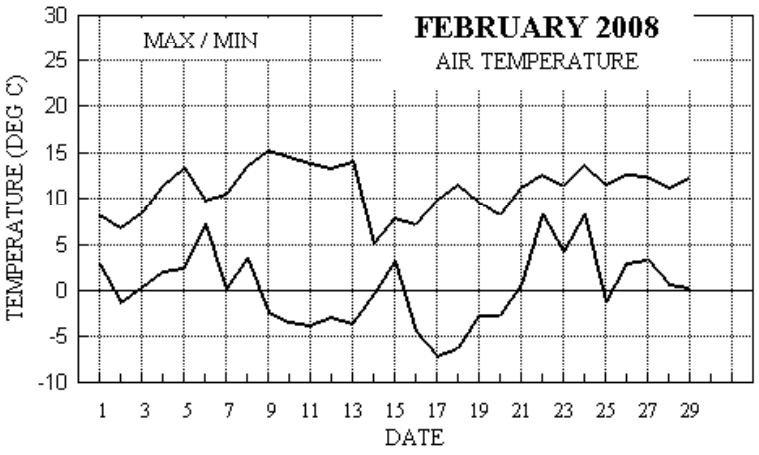
Temperature: One of the outstanding features of this month is the very high daily range of temperature, 10.8°, highest since before 1882, the previous highest being 10.3° in 1891, and compared with the average of 6.7°. The mean max is highest since 2002 and ranks 5th highest in 127 years, only 0.3° below the record, yet the mean min is lowest since 1996, is 0.9° below the median, and ranks 40th lowest in 127 years. The highest max is 2.4° above the median and is highest since 1998. The lowest max is 2.7° above the median and is highest since 2002. The lowest min is 1.9° below the median while the highest min is close to its median. The mean grass min is lowest since 1996 and the lowest grass min is lowest since 1991. The number of days with air frost is 3 above average and the duration of air frost is 14 hours above average, and is equal highest with 2003 since 1996. **Rainfall:** Only 22 mm fell this February, about half the normal, but lowest only since 2005. The number of dry days is most since 1998 and is 7 more then average. There was a long dry spell of 17 days ending on the 24th. The total rain duration is 30.7 hours below average and lowest since 1998. A thunderstorm in the evening of the 5th was accompanied by a rainfall rate of 95 mm/hr. **Sunshine:** The second outstanding feature of the month is the exceptionally high sunshine total, over twice the average, and far exceeding any February total in the past 100 years. Two periods stand out, the 6 days ending on the 13th and the 4 days ending on the 19th, both with an average of 91 % of the maximum sunshine. This month's daily mean sunshine of 5.16 hours is not normally reached until May (average 5.5 hours). Overall there were 11 days with <3 hours, 17 with =>6 hours and 7 with =>9 hours. **Wind:** The mean wind speed of 6.8 mph is 1.4 mph below average. The 5th was the windiest day, mean 13.6 mph, and the month's highest gusts of 43 mph were on that day and also on the 29th. The 10th was the least windy day, mean 2.0 mph, and there were 25.9 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days; N,1 NE, 10 E, 0 SE, 1 S, 4 SW, 11 W, 2 NW, 0. **Humidity:** The mean relative humidity was 79.2 %, and the lowest value was 32 % on the 17th. The mean water vapour content per kg of air was 4.4 g at both 0900 and 1500 GMT. **Pressure:** The mean pressure is highest since 1998. **Miscellaneous:** On the 17th and 18th there were spectacularly colourful sunrises and sunsets, probably associated with unusually low stratospheric temperatures of around –90°. **Commentary:** The month started dry with normal temperatures, but a 3 day wet spell from the 3rd produced over half the month's rainfall. Winds were from between S and W, often fresh. It then turned dry and mild, with decreasing winds and daily max temps around 8° above normal by the 10th, by which time there was a light NE'ly wind. It became very sunny after the 7th, and the clear skies at night allowed low minima, generally around 4° below normal. After 2 cloudy days with near normal temps and a moderate NE'ly wind on the 14th and 15th, it became sunny once more with above normal temp by day and below normal by night, with an anomaly of –7.2° for the min on the 17th. An abrupt change on the 20th saw a SW'ly wind become established, ending the run of cold nights, but daily maxima continued above normal. Winds became fresh on the 21st, setting the scene for the rest of the month, increasing to strong on the 29th. Some rain fall on the 24th, ending a 17 day dry spell, with more on the 25th and 29th.

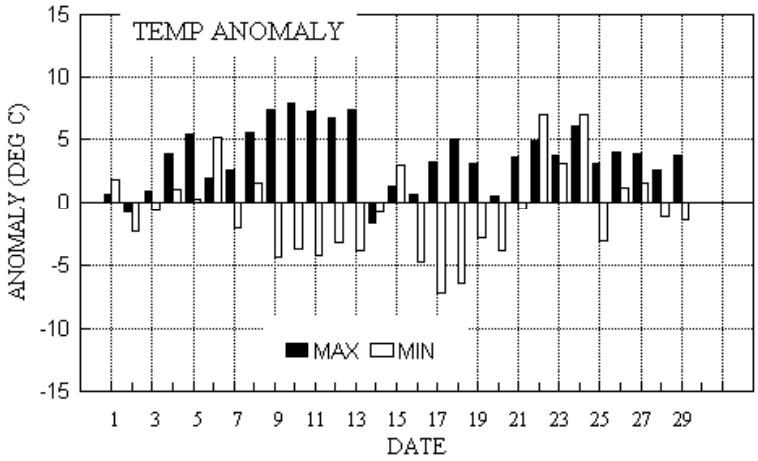
Mean anomalies (max, min, rain, sun)

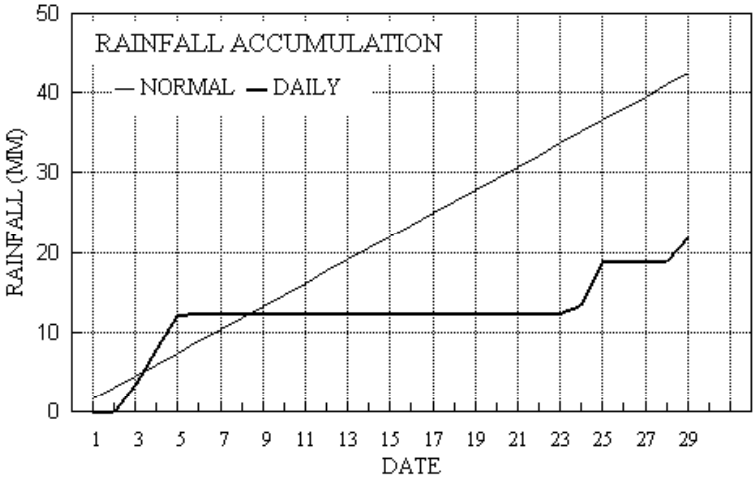
1st to the 10th				11th to the 20th				21st to the 29th			
+3.6°	-0.3°	82 %	246 %	+3.4°	-3.4°	0 %	275 %	+4.0°	+1.5°	75 %	113 %

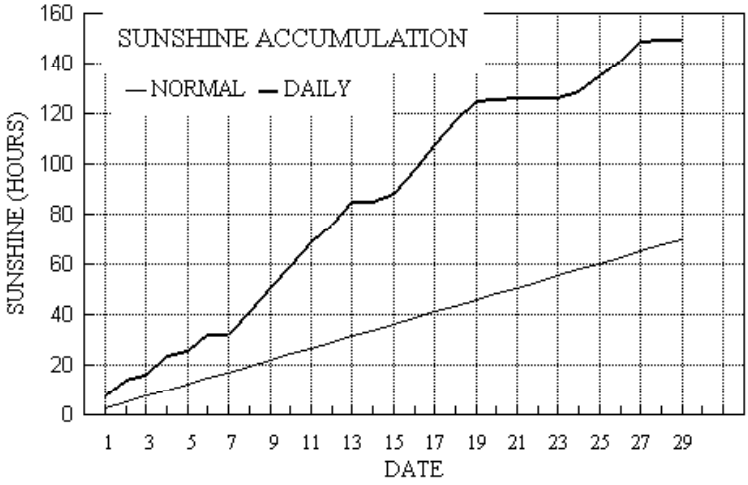
B J Burton FRMetS Hon. Met. Officer to Wokingham Town Council.

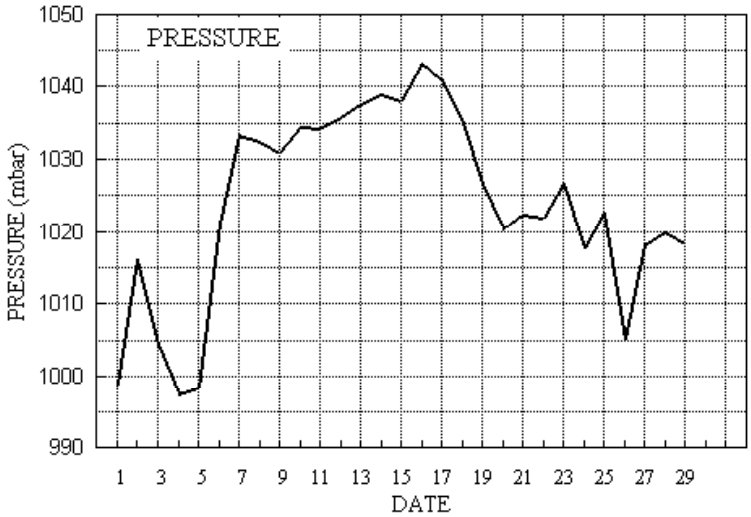
Wokingham Climatological Graphs for February 2008

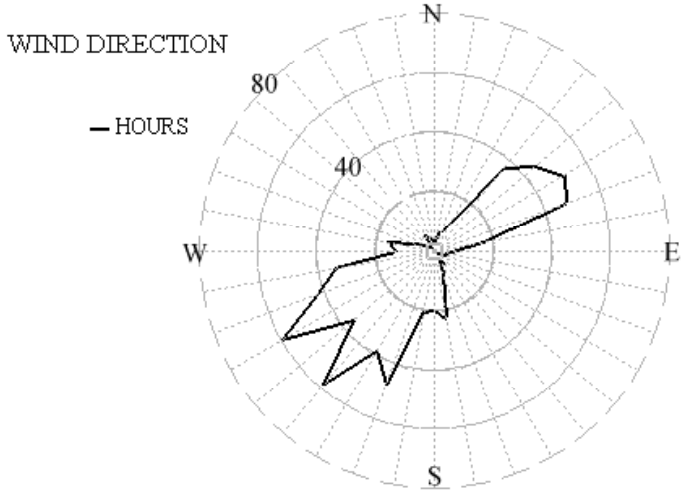


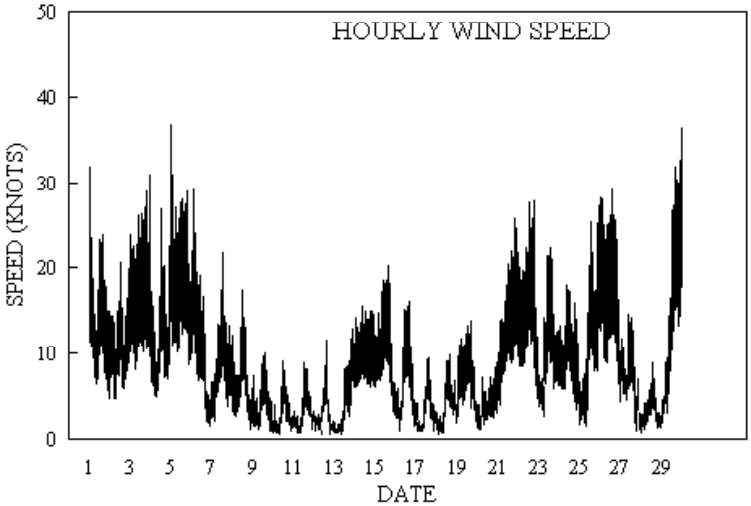


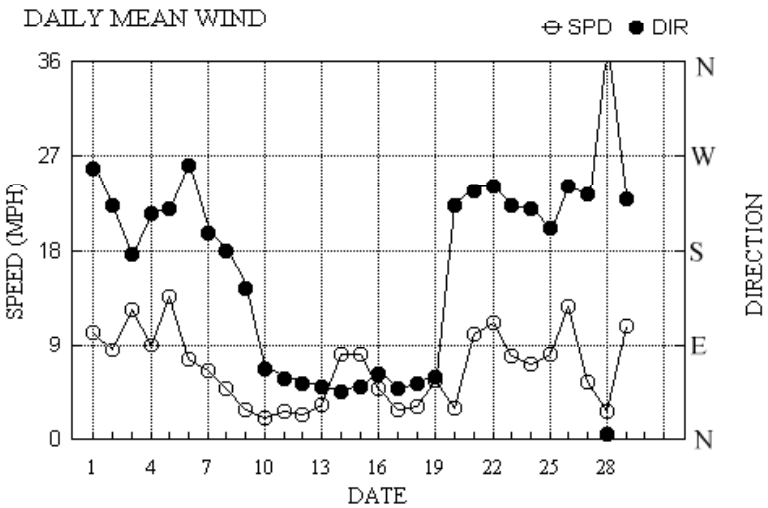












Daily meteorological data. Emmbrook, WOKINGHAM, Berkshire.

Month: FEBRUARY 2008

Date	Max	Min	Rain	Grass	30cm	100cm	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	sp	ddd	gg	HHhh	ddd	ff	HH	hrs
1	8.3	2.8	0.0	-1.9	6.5	9.0	7.6	0.0	998.8	0 1	0 0	0 0	0 0	258	8.5	8.9	254	32	0011	245	12	01	0.0
2	6.9	-1.3	0.0	-7.4	5.8	8.9	6.2	4.4	1016.0	1 1	0 0	0 0	0 0	223	6.8	7.4	246	21	1349	233	9	13	0.0
3	8.5	0.4	3.3	1.7	5.6	8.8	2.4	0.0	1004.5	0 0	0 0	0 0	0 0	176	10.4	10.7	178	31	2215	157	12	17	3.2
4	11.5	2.1	4.5	-3.2	5.8	8.7	7.4	0.0	997.5	0 1	0 0	0 0	0 0	215	7.2	7.8	187	34	2352	190	14	23	3.5
5	13.4	2.4	4.4	3.4	5.9	8.6	2.1	0.0	998.4	0 0	0 0	1 0	0 0	219	11.4	11.8	192	37	0008	188	14	00	1.4
6	9.9	7.3	0.2	3.9	6.6	8.5	6.2	0.0	1021.0	0 0	0 0	0 0	0 0	262	5.8	6.5	246	29	0235	252	13	02	0.2
7	10.6	0.1	tr	-5.1	6.3	8.5	0.3	0.0	1033.4	0 1	0 0	0 0	0 0	197	5.5	5.6	194	22	1221	206	10	12	0.0
8	13.6	3.6	0.0	-2.8	6.5	8.6	9.1	1.1	1032.5	0 1	0 0	0 0	0 0	179	3.9	4.1	202	18	1148	199	7	12	0.0
9	15.4	-2.3	0.0	-6.7	6.1	8.6	9.2	10.0	1031.0	1 1	0 0	0 0	0 0	144	1.6	2.4	150	10	1442	161	5	14	0.0
10	14.6	-3.3	0.0	-8.0	5.5	8.6	8.9	11.4	1034.5	1 1	0 0	0 0	0 0	67	1.3	1.7	62	9	1255	93	4	13	0.0
11	13.9	-3.8	0.0	-8.4	5.0	8.4	9.1	10.0	1034.3	1 1	0 0	0 0	0 0	57	1.9	2.3	148	9	1234	66	5	14	0.0
12	13.4	-2.8	0.0	-7.1	4.6	8.3	7.4	10.5	1035.9	1 1	0 0	0 0	0 0	52	1.6	2.0	65	12	1432	64	6	14	0.0
13	14.1	-3.5	0.0	-8.0	4.4	8.1	9.3	9.1	1037.5	1 1	0 0	0 0	0 0	50	2.2	2.8	38	13	2127	42	7	21	0.0
14	5.1	-0.4	tr	-4.5	4.5	8.0	0.0	0.0	1038.9	1 1	0 0	0 0	0 0	45	6.9	6.9	29	16	0933	48	8	19	0.0
15	7.9	3.2	0.0	2.7	5.0	7.9	3.2	2.0	1038.0	0 0	0 0	0 0	0 0	50	6.8	6.9	59	20	1541	60	10	13	0.0
16	7.3	-4.5	0.0	-10.2	4.9	7.8	9.5	13.3	1043.3	1 1	0 0	0 0	0 0	62	4.0	4.1	54	16	1554	59	8	15	0.0
17	9.9	-7.0	0.0	-12.0	4.1	7.8	9.7	15.2	1040.9	1 1	0 0	0 0	0 0	48	2.0	2.4	75	10	1405	46	5	13	0.0
18	11.6	-6.2	0.0	-10.8	3.5	7.7	9.7	12.9	1034.9	1 1	0 0	0 0	0 0	52	2.5	2.7	59	10	1541	61	5	12	0.0
19	9.7	-2.6	tr	-9.4	3.2	7.5	7.8	3.2	1026.6	1 1	0 0	0 0	0 0	59	4.7	4.8	59	14	1611	67	7	13	0.0
20	8.2	-2.6	tr	-8.6	3.4	7.3	0.5	5.2	1020.3	1 1	0 0	0 0	0 1	222	1.1	2.5	224	9	2344	208	5	20	0.0
21	11.3	0.7	tr	-3.8	3.8	7.1	0.4	0.0	1022.3	0 1	0 0	0 0	0 0	236	8.6	8.7	246	26	2058	240	12	21	0.0
22	12.6	8.2	0.0	8.9	4.9	7.1	0.0	0.0	1022.0	0 0	0 0	0 0	0 0	241	9.6	9.7	244	28	1839	248	13	12	0.0
23	11.4	4.3	0.0	-1.0	5.5	7.2	0.0	0.0	1026.6	0 1	0 0	0 0	0 0	222	6.6	6.8	251	23	1409	232	11	14	0.0
24	13.8	8.2	0.9	6.4	6.0	7.3	2.8	0.0	1017.7	0 0	0 0	0 0	0 0	219	5.2	6.2	186	18	0945	198	9	10	0.7
25	11.7	-1.3	5.6	-6.4	6.3	7.5	6.2	2.7	1022.7	1 1	0 0	0 0	0 0	201	6.8	7.0	218	28	2349	215	13	23	5.4
26	12.6	3.0	0.0	7.6	6.4	7.7	6.3	0.0	1005.2	0 0	0 0	0 0	0 0	241	10.4	11.0	265	29	1308	211	14	03	0.0
27	12.5	3.3	0.0	-0.5	6.6	7.8	7.7	0.0	1018.1	0 1	0 0	0 0	0 0	233	4.3	4.7	256	15	0954	255	7	13	0.0
28	11.2	0.7	0.0	-2.6	6.3	7.9	0.2	0.0	1019.9	0 1	0 0	0 0	0 0	4	1.6	2.3	357	9	1347	10	4	13	0.0
29	12.3	0.4	3.1	-5.1	6.5	8.0	0.3	0.0	1018.4	0 1	0 0	0 0	0 0	229	9.2	9.4	256	37	2315	253	18	23	2.8
Total			22.0				149.5	111.0															17.2
Mean	11.1	0.3		-3.4	5.4	8.0	5.16	3.8	1023.8					219	2.7	5.9							
Anom	+3.2	-1.0	53%		+0.3	+1.3	215%		+7.1														

Daily mean 5.7 Pressure, abs highest = 1043.5 on 16

Anom +1.1 Pressure, abs lowest = 987.5 on 4

Number of days with:

Air frost = 13 Ground frost = 22 Nil sun = 3

Snow falling = 0 Snow lying = 0 Thunder = 1

Hail=>5mm = 0 Hail<5mm or ice = 0 Fog at 09GMT = 1

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 FEBRUARY 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cm	Ch	NChshs	NChshs	NChshs	Date	Remarks
1	77	6	25	07	13	3.5	0.4	80	3.9	998.8	1	013	02	2	2	1	5	7	3	1	81650	86072		1	1Ac69 COTRA Halo 22 part
2	80	5	21	08	12	0.4	-2.6	80	3.1	1016.0	2	021	02	1	1	1	0	9	3	1	81364	85075		2	COTRA Hoar slt Gnd sfc frzn Parhelion
3	81	7	17	11	23	5.2	-1.0	64	3.5	1004.5	7	023	02	2	2	1	8	6	3	1	81830	87075		3	1Sc45 1Ac68 COTRA Cu hum
4	82	2	22	06	11	2.3	1.3	93	4.2	997.5	2	042	02	0	0	0	0	9	0	3	82070			4	Cb top S-SE Hoar slt
5	62	7	22	11	24	10.8	6.9	77	6.3	998.4	1	027	03	2	2	1	8	5	1	2	81820	83465	87075	5	1Sc56 2Cc70 COTRA Cu med
6	86	5	26	08	14	8.0	3.5	73	4.8	1021.0	2	061	03	1	1	4	8	6	0	1	81830	84645		6	2Ci75 Cu med
7	75	7	20	07	13	7.6	5.1	84	5.3	1033.4	3	002	21	6	2	7	5	6	/	/	81635	86645	87656	7	
8	60	3	18	03	07	5.7	5.0	95	5.3	1032.5	3	001	10	0	0	0	0	9	0	1	83080			8	COTRA
9	56	4	27	01	05	1.1	0.5	96	3.9	1031.0	2	010	10	0	0	0	0	9	0	1	84080			9	COTRA Hoar mod Gnd sfc frzn
10	56	5	03	01	02	-0.6	-1.0	97	3.4	1034.5	2	009	10	1	1	0	0	9	0	1	85080			10	COTRA Hoar mod Gnd sfc frzn
11	20	1	27	01	02	-0.3	-0.9	96	3.5	1034.3	2	007	10	0	0	0	0	9	0	1	81080			11	COTRA Hoar mod Gnd sfc frzn
12	28	6	27	01	01	0.0	-0.4	97	3.6	1035.9	1	010	10	1	1	6	6	1	0	0	86702			12	Hoar mod Gnd sfc frzn
13	30	0	00	00	02	-0.3	-0.7	97	3.5	1037.5	2	005	10	0	0	0	0	9	0	0				13	Hoar mod Gnd sfc frzn
14	50	8	04	09	15	3.7	1.1	83	4.0	1038.9	2	010	05	2	2	8	6	4	/	/	88712			14	Absent 14-15 vv&cld est
15	58	8	06	08	17	5.1	1.4	77	4.1	1038.0	1	009	05	2	2	8	5	4	/	/	88618			15	
16	60	1	05	04	08	-0.3	-1.7	90	3.2	1043.3	1	012	05	0	0	0	0	9	0	1	81080			16	COTRA Hoar mod Gnd sfc frzn
17	45	0	02	02	03	-2.3	-3.3	93	2.9	1040.9	2	005	05	0	0	0	0	9	0	0				17	Hoar thk Gnd sfc frzn
18	25	0	03	02	03	-1.1	-1.9	94	3.2	1034.9	6	005	10	0	0	0	0	9	0	0				18	Hoar mod Gnd sfc frzn
19	28	7	06	06	10	2.8	1.2	89	4.1	1026.6	7	008	05	2	2	7	6	2	/	1	83705	87708		19	/Ci75
20	01	9	07	01	05	0.7	0.6	99	3.9	1020.3	3	011	45	4	4	9	/	/	/	/				20	vv 110
21	60	7	24	08	16	8.2	5.1	81	5.4	1022.3	2	013	05	2	2	1	5	4	7	2	81712	85362	87075	21	1Sc25 2Ac59
22	84	8	24	11	22	10.7	7.4	80	6.3	1022.0	2	001	01	2	2	7	5	4	7	/	85618	87625		22	/Ac65
23	60	7	23	06	13	9.2	8.1	93	6.6	1026.6	6	004	05	2	2	7	6	2	/	1	82705	86707	87712	23	/Ci75 COTRA
24	72	7	20	09	15	9.3	4.9	74	5.3	1017.7	6	006	02	2	2	1	5	6	7	1	81635	83363	87072	24	1Ac60 2As66 CZarc UAcont Parhelia
25	63	7	20	03	09	3.0	1.7	91	4.2	1022.7	8	003	02	1	1	0	0	9	0	1	87080			25	COTRA Hoar slt
26	70	4	25	11	18	9.9	6.2	78	5.9	1005.2	3	031	03	6	1	4	8	5	0	8	81820	84650		26	1Cs72 Cu fra
27	65	6	24	06	13	5.6	3.3	85	4.8	1018.1	1	016	02	2	2	0	0	9	0	2	82070	86072		27	COTRA Halo 22 part
28	59	8	06	03	05	5.5	4.3	91	5.1	1019.9	2	005	05	2	2	8	5	6	/	/	88630			28	
29	40	8	21	05	09	4.1	2.8	91	4.6	1018.4	5	003	05	2	2	1	6	3	1	/	81708	88467		29	

Mean vis = 15.3 km
Mean cloud = 5.2 66%
Mean wind speed = 5.5 kn
Mean gust = 11 kn
Mean TT = 4.1 C
Mean TdTd = 2.0 C
Mean RH = 86.8 %
Mean r = 4.4 g/kg
Mean PPP = 1023.8 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 FEBRUARY 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cm	Ch	NChshs	NChshs	NChshs	Date	Remarks
1	80	5	29	12	23	7.1	-4.3	44	2.8	1000.2	3	008	15	1	1	1	9	6	0	3	81935	84070		1	1Cu45 jpS vv60k exS
2	86	7	23	08	15	6.3	-1.6	57	3.4	1015.1	8	011	02	2	2	1	8	6	4	2	81835	83068	86072	2	1Sc56 1Ac62 1Ac65 COTRA Cu hum
3	80	8	17	10	26	6.5	0.4	65	4.0	996.0	6	041	03	2	2	5	8	5	7	/	81828	85656	86359	3	8As65 Cu hum
4	84	5	23	09	20	9.3	1.8	60	4.4	1002.3	2	014	01	1	1	1	8	6	0	3	81830	84078		4	1Sc35 2Ci70 Cb top N&W Cu hum
5	65	7	22	12	27	11.5	8.4	81	6.9	998.8	5	008	80	8	2	7	8	5	/	/	85820	87635		5	Cu med
6	88	2	31	07	13	9.7	-0.2	50	3.7	1029.2	2	030	02	0	0	1	1	6	0	1	81840			6	2Ci80 COTRA Cu hum
7	61	8	21	06	14	10.1	8.0	87	6.5	1033.2	5	003	02	2	2	8	6	3	/	/	86706	88708		7	
8	80	2	19	07	14	12.7	1.1	45	4.0	1029.6	6	014	02	0	0	0	0	9	0	1	82080			8	COTRA
9	78	3	16	05	10	14.4	0.6	39	3.9	1030.4	6	007	02	0	0	0	0	9	0	1	83080			9	COTRA
10	64	5	09	02	06	13.4	0.1	40	3.7	1032.6	6	012	02	1	1	0	0	9	0	1	85080			10	COTRA
11	59	1	07	04	08	12.7	2.0	48	4.3	1032.4	7	012	05	0	0	0	0	9	0	1	81080			11	
12	56	0	07	06	12	12.7	4.7	58	5.2	1034.9	6	010	05	0	0	0	0	9	0	0				12	
13	75	0	07	04	08	13.1	1.8	46	4.2	1035.4	6	016	02	0	0	0	0	9	0	0				13	Absent 13-15 inc vv&cld est
14	57	8	05	07	14	4.6	0.7	76	3.9	1037.7	6	014	05	2	2	8	5	4	/	/	88615			14	
15	62	1	06	09	17	6.7	-0.3	61	3.6	1038.2	5	004	01	1	1	1	5	5	0	0	81625			15	
16	70	1	06	08	15	6.2	-4.0	48	2.7	1041.6	6	014	02	0	0	0	0	9	0	1	81080			16	COTRA
17	65	0	06	04	10	9.0	-4.9	37	2.6	1037.9	7	020	02	0	0	0	0	9	0	0				17	
18	60	0	05	05	09	10.6	-3.5	37	2.9	1031.7	7	021	05	0	0	0	0	9	0	0				18	Hoar slt in shade
19	59	5	06	06	12	8.1	-1.4	51	3.4	1022.4	7	027	05	2	2	0	0	9	0	2	81170	85073		19	
20	22	7	25	02	07	4.7	3.7	93	4.9	1019.8	5	004	05	4	2	7	5	2	/	/	83705	87645		20	
21	78	8	25	11	20	11.2	5.5	69	5.6	1021.5	7	010	02	2	2	2	5	5	7	/	82625	88462		21	1Sc30 2Ac58
22	86	8	25	10	25	12.4	7.9	74	6.5	1022.3	5	002	02	2	2	8	5	5	/	/	87620	88625		22	
23	84	7	23	11	22	11.0	5.7	70	5.6	1023.9	7	018	02	2	2	7	5	4	/	/	82618	87622		23	
24	56	8	21	06	13	12.5	7.2	70	6.3	1015.2	6	014	15	2	2	3	5	5	7	/	81625	83640	88459	24	2Ac58 jpNW
25	80	8	20	08	22	9.5	2.6	62	4.5	1016.7	6	034	03	2	2	1	8	5	1	/	81828	88465		25	1Sc35 Cu fra Sc len
26	80	2	26	13	24	10.7	1.0	51	4.1	1007.5	2	007	02	0	0	2	2	6	0	1	82845			26	1Ci75 Cu med
27	84	4	24	07	13	12.1	1.7	49	4.3	1018.2	7	009	02	1	1	2	4	6	0	1	82840	83075		27	1Sc50
28	83	8	36	03	07	10.5	3.7	63	5.0	1018.7	6	008	02	2	2	8	5	5	/	/	83628	88632		28	
29	68	8	23	13	25	8.0	4.9	81	5.4	1009.4	6	058	61	6	2	7	8	5	2	/	83820	86630	88550	29	Cu hum

Mean vis = 26.6 km
Mean cloud = 4.7 59%
Mean wind speed = 7.4 kn
Mean gust = 16 kn
Mean TT = 9.9 C
Mean TdTd = 1.8 C
Mean RH = 59.0 %
Mean r = 4.4 g/kg
Mean PPP = 1022.5 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.

Wokingham AWS Psychrometer, 1min readings

Daily means and extremes, 00-24 GMT and RH statistics

February 2008

Date	Mean TT	Max TT	Time	Min TT	Time	Mean RH	Max RH	Time	Min RH	Time	Missing RH N >0	Number of minutes RH in given ranges 0-20	20-40	40-60	60-80	80-90	90-100
01	4.3	8.0	1328	1.3	2322	63.4	83.3	44	41.1	1530		0	0	583	699	158	0
02	3.3	6.5	2355	-1.6	714	67.7	84.6	757	54.5	1540		0	0	435	866	139	0
03	6.3	8.2	2159	4.3	813	66.1	87.1	2349	49.1	1251		0	0	297	1086	57	0
04	5.7	9.2	1505	1.8	740	79.6	94.5	742	58.0	1514		0	0	41	741	204	454
05	10.1	13.1	1218	6.2	32	79.4	92.2	306	66.4	1243		0	0	0	814	453	173
06	6.5	9.5	1502	0.2	2349	71.9	92.6	2353	48.6	1602		0	0	285	784	296	75
07	7.2	10.4	1248	-0.1	41	85.1	94.0	46	76.5	440		0	0	0	93	1185	162
08	6.3	13.0	1408	-0.8	2357	81.7	97.2	622	44.7	1507		0	0	282	225	123	810
09	4.1	14.6	1433	-2.4	700	78.9	97.9	729	36.1	1526		0	84	297	154	152	753
10	3.0	13.8	1451	-3.2	716	79.8	97.4	658	33.5	1450		0	100	212	235	131	762
11	3.0	12.8	1341	-3.6	617	82.3	96.9	338	43.1	1350		0	0	257	239	135	809
12	2.9	12.7	1446	-2.6	638	87.7	97.7	1105	53.6	1423		0	0	185	156	125	974
13	3.8	13.1	1439	-3.1	737	83.1	97.8	141	45.1	1450		0	0	289	194	100	857
14	3.9	4.9	2345	3.2	1959	82.6	95.8	1	74.1	1426		0	0	0	417	970	53
15	3.9	7.6	1412	-1.7	2321	77.3	94.3	443	59.9	1454		0	0	2	827	430	181
16	0.3	6.5	1351	-4.3	704	77.7	96.0	755	47.1	1453		0	0	313	337	281	509
17	-0.6	9.1	1521	-7.1	728	76.1	95.4	232	32.1	1554		0	138	226	244	254	578
18	0.8	11.0	1428	-6.1	628	77.7	96.8	2337	34.7	1431		0	135	225	208	115	757
19	2.9	8.9	1413	-2.7	16	82.1	97.8	217	45.5	1358		0	0	271	258	182	729
20	1.7	5.1	1534	-3.1	134	95.7	99.0	1021	88.4	1644		0	0	0	0	103	1337
21	8.2	11.1	1510	3.6	1	81.2	96.1	1	68.6	1529		0	0	0	807	362	271
22	10.6	12.4	1407	7.4	2400	79.3	90.4	2358	71.9	1215		0	0	0	959	475	6
23	8.7	11.1	1303	3.8	524	84.4	97.8	603	67.9	1439		0	0	0	497	355	588
24	9.5	13.3	1142	3.0	2359	78.1	90.8	2400	63.1	1143		0	0	0	806	633	1
25	5.9	11.5	2320	-1.4	644	81.5	98.1	758	56.7	1236		0	0	109	485	297	549
26	9.4	12.3	1310	5.4	2348	72.6	94.9	621	43.4	1329		0	0	379	530	260	271
27	6.3	12.0	1442	2.0	2257	75.8	93.5	2400	46.4	1520		0	0	327	305	605	203
28	5.8	11.0	1306	0.4	406	81.9	96.8	414	59.9	1535		0	0	1	541	336	562
29	6.6	11.8	2303	0.4	424	86.0	94.6	629	75.6	1319		0	0	0	288	685	467
Mean	5.2	10.5		-0.0		79.2	94.5		54.7			0.00	0.26	2.88	7.93	5.52	7.41
Hi	10.6	14.6		7.4		95.7	99.0		88.4	Tot	0	0	457	5016	13795	9601	12891
Lo	-0.6	4.9		-7.1		63.4	83.3		32.1								

February 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	4.29	8.1	1327	1.2	2321	63.39	83.5	43	40.8	1529	-2.29	3.28	4.2	1019	2.5	1535	1000.86	1009.7	2359	996.6	411	0.0
2	3.28	6.6	2345	-1.7	713	67.69	84.8	808	54.2	1540	-2.24	3.24	4.4	2154	2.7	611	1013.96	1016.7	953	1009.6	0	0.0
3	6.30	8.3	2156	4.2	813	66.09	87.3	2349	48.4	1250	0.35	3.96	5.2	2353	3.0	1250	999.89	1011.5	0	988.5	2358	1.7
4	5.70	9.3	1504	1.7	738	79.60	94.6	740	57.5	1514	2.29	4.54	5.4	141	4.1	736	998.46	1005.0	1902	987.5	100	2.1
5	10.15	13.2	1217	6.1	28	79.40	92.3	305	65.6	1242	6.70	6.19	7.2	1334	4.9	10	998.95	1003.5	2359	995.5	338	6.9
6	6.55	9.6	1501	0.1	2348	71.90	92.8	2352	48.2	1601	1.63	4.27	5.9	145	3.3	1610	1023.05	1034.3	2157	1003.2	1	0.8
7	7.16	10.5	1247	-0.2	40	85.10	94.1	44	76.3	441	4.82	5.34	6.6	1455	3.4	40	1033.64	1034.5	15	1032.9	1304	0.1
8	6.29	13.1	1406	-0.9	2356	81.70	97.4	629	43.8	1506	2.91	4.62	5.7	1038	3.4	2356	1031.21	1034.0	5	1029.3	1434	0.1
9	4.13	14.7	1432	-2.5	658	78.90	98.0	727	35.6	1526	-0.03	3.74	5.3	1006	3.0	659	1031.10	1033.6	2354	1029.6	411	0.1
10	2.95	13.9	1449	-3.3	715	79.80	97.6	655	32.6	1449	-0.90	3.50	4.7	1251	2.8	715	1033.67	1034.8	1054	1032.4	1533	0.1
11	3.01	12.9	1339	-3.7	615	82.30	97.1	333	42.5	1349	-0.19	3.71	5.1	1209	2.7	615	1033.64	1034.9	2354	1032.3	1450	0.1
12	2.89	12.8	1444	-2.7	637	87.70	97.8	1102	52.6	1401	0.76	3.98	5.8	1219	2.9	638	1035.43	1037.0	2352	1034.3	411	0.1
13	3.75	13.2	1438	-3.2	735	83.10	97.9	141	44.4	1449	0.64	3.94	5.0	1155	2.8	754	1036.73	1037.8	2337	1035.2	1441	0.0
14	3.92	4.9	2338	3.1	1958	82.60	95.9	0	73.8	1425	1.22	4.04	4.8	0	3.7	1454	1038.07	1039.5	1059	1037.2	1649	0.0
15	3.86	7.7	1411	-1.8	2319	77.30	94.5	441	58.7	1452	0.15	3.77	4.6	305	2.8	2203	1038.48	1041.3	2359	1036.9	615	0.1
16	0.30	6.6	1350	-4.4	702	77.70	96.2	754	45.9	1452	-3.50	2.85	3.6	1116	2.5	2355	1042.08	1043.5	941	1041.1	154	0.1
17	-0.62	9.2	1517	-7.2	726	76.10	95.6	231	31.4	1554	-4.99	2.57	3.5	1055	2.0	726	1039.34	1042.1	20	1037.2	1721	0.1
18	0.83	11.1	1427	-6.2	626	77.70	96.9	2335	33.9	1430	-3.32	2.94	4.0	1104	2.2	626	1033.44	1037.4	23	1030.0	2359	0.0
19	2.87	9.0	1412	-2.8	15	82.10	98.0	225	44.8	1357	-0.26	3.69	4.4	1134	2.9	15	1024.71	1030.1	0	1020.2	2356	0.1
20	1.68	5.2	1533	-3.2	133	95.70	99.1	1013	88.2	1643	1.06	4.10	5.0	1455	2.9	133	1020.23	1022.2	2318	1019.0	506	0.1
21	8.18	11.2	1505	3.5	0	81.20	96.3	9	68.2	1338	5.06	5.39	6.1	2356	4.6	4	1021.82	1022.7	1145	1020.6	501	0.0
22	10.59	12.5	1406	7.3	2359	79.30	90.5	2357	71.5	1214	7.15	6.22	6.7	1612	5.6	2255	1023.18	1028.3	2354	1021.4	1415	0.0
23	8.70	11.2	1302	3.7	523	84.40	97.9	602	67.5	1438	6.11	5.79	6.9	1029	4.7	523	1025.13	1028.5	39	1020.8	2355	0.0
24	9.49	13.4	1141	2.9	2358	78.10	90.9	2359	62.4	1142	5.81	5.71	6.5	1842	4.0	2354	1017.95	1021.1	2324	1014.9	1459	0.9
25	5.95	11.6	2316	-1.4	642	81.50	98.2	757	56.2	1235	2.77	4.69	7.0	2241	3.3	643	1017.88	1023.2	627	1007.0	2359	0.2
26	9.37	12.4	1309	5.2	2348	72.60	95.0	620	42.4	1329	4.37	5.33	7.6	621	3.6	1329	1007.22	1014.0	2352	1001.9	535	5.0
27	6.28	12.1	1442	1.9	2255	75.80	93.7	2359	45.9	1519	2.02	4.37	5.4	1038	3.9	1519	1018.06	1020.9	2238	1014.0	0	0.0
28	5.81	11.1	1303	0.4	405	81.90	96.9	414	59.5	1534	2.74	4.61	6.1	1209	3.7	401	1019.72	1021.1	2330	1018.4	1518	0.0
29	6.58	11.9	2302	0.3	424	86.00	94.8	628	75.4	1318	4.38	5.31	7.6	2153	3.6	423	1012.30	1021.2	15	998.8	2359	0.8
Total																						19.5
Mean	5.18	10.58		-0.12		79.20	94.68		54.07		1.56	4.33	5.52		3.37		1023.11	1027.04		1018.83		
Max	10.59	14.72		7.30		95.70	99.1		88.2		7.15	6.22	7.60		5.60		1042.08	1043.46		1041.15		
Min	-0.62	4.95		-7.18		63.39	83.5		31.4		-4.99	2.57	3.49		2.01		998.46	1003.49		987.50		

Wokingham Automatic Weather Station
AWS samples taken every 0.5 seconds
x and n refer to maximum and minimum respectively

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

Readings taken at Wokingham Climatological Station, Emmbrook, Berkshire
Lat 51.425 N, Long 0.853 W, NGR (SU) 798701
Altitude 45 m ASL.

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 — WINTER 2007/2008

Temperature (°C)			Rank in the past **126** years
Mean maximum	10.0	(+2.2)	Equal highest
Mean minimum	2.2	(+0.5)	34th highest
Daily mean	6.1	(+1.3)	9th highest
Rainfall total (mm)	149.3	(90 %)	58th lowest
Sunshine total (hours)	304.6	(167 %)	

N° of:	Dry days	53 (+9)	Wet days	30 (+1)				
Days with: Air frost	25 (-4)	Ground frost	49 (-4)	Snow falling	2 (-8)	Snow lying	0 (-5)	
Thunder	2 (+1)	Hail ≥5mm	0	Small hail/ice	4	Fog @09 GMT	5 (-2)	Nil sun 22
Air pressure MSL : Mean @09 GMT (mbar)		1019.3		(+3.2)				

Departure from 1971 to 2000 average shown in brackets.

Notes: **Very Mild** **Very Sunny** **Rainfall Below Normal**

Temperature: The mean maximum is not quite a new record, being equal highest with 1990 and 1989. The mean minimum, on the other hand, is 2.0° below the record set last winter, and is 0.8° above the median value. The resulting mean temperature is 0.9° below the record, but is comfortably within the top 10 % of ranked values and is thus in the very mild category. Also, the mean daily temperature range, 7.8°, is the highest for this season since before 1883. In terms of mean temperature, January was the mildest month and December the coolest. The season's highest temperature was 15.4° on the 9th February, 1.5° above the median, and the lowest was on the 17th February, -7.0°, 0.5° above the median. The lowest maximum was 3.6° on the 15th December, 3.9° above the median and 0.4° below the record, and the highest minimum was 12.0° on the 20th December, 2.1° above the median and 0.7° below the record. The mean grass minimum was –1.0°, close to normal, and the lowest grass minimum was –12.0° on the 17th February, the lowest grass temperature since 2001. The mean earth temperature at 30 cm depth was 6.1°, 0.3° above average, and at 1 m depth the mean was 8.8°. There were 237.7 hours with air frost, 41 hours below average. **Rainfall:** The total this winter is 10 % below average. January with 139 % was the only month to exceed the average, whilst February with 58 % was the driest month. The highest daily fall was 13.9 mm on the 11th January. The total duration of measurable rain was 114.0 hours, 52 hours below average. January with 61.7 hours had the highest duration. The highest rainfall rate recorded was 95 mm/hr on the 8th January and again on the 5th February. There were 4 dry spells, one of 12 days ending on the 21st December, one of 6 days ending on the 3rd January and another of 5 days ending on the 26th, and one of 17 days ending on the 23rd February. Thunder occurred on the 17th January and 5th February, and small hail fell on the 28th December, and the 8th, 14th and 31st January. Snow fell on the 3rd and 11th January, mixed with rain on both occasions. **Sunshine:** This has been a remarkably sunny winter, the total of 304.6 hours well above the previous highest of 255.8 hours in 2003. Each month had well above average sunshine but the record breaking sunshine total in February, over twice the average, played a major part in the season's record. The sunniest day was the 18th February, 9.7 hours. The 22 days with nil sun is 8 below average. Overall there were 47 days with <3 hours, 24 with =>6 hours and 7 with =>9 hours. **Wind:** The mean wind speed this winter was 8.1 mph, close to average. The windiest day was the 31st January, 15.3 mph, about 5 mph below normal. the highest gust of 51 mph was on the 2nd December, 8 mph below normal. The 12th December was the least windy day, mean 1.5 mph, and there were 2729 minutes, 45.5 hours, with a mean speed of 0.5 mph or less. Daily mean direction/number of days : N,2 NE,17 E,6 SE,1 S,9 SW,49 W,6 NW,1. **Humidity:** The overall mean relative humidity was 81.8 %, and the lowest value was 32 % on the 17th February. The mean water vapour content per kg of air was 4.8 g at 0900 GMT and 4.9g at 1500 GMT.

December: Temperature above normal, dry and very sunny. The highest max was equal highest since 1985.

January: Wet and windy, but very mild and very sunny. Mean temperature 4th highest in 127 years. Highest max ranks 10th highest in 105 years. Both lowest and highest min are highest on record. The lowest grass min is highest in the past 29 years. The number of air frosts fewest since before 1956. Wettest since 1999.

February: Mean temperature well above normal with an exceptional daily range. Dry and very sunny. Mean max 5th highest, and min 40th lowest, in the past 127 years, the resulting mean daily temperature range is highest since before 1882. Lowest grass min is lowest since 1991. Most dry days since 1998. Exceptional sunshine, over twice the average, and far exceeding any Feb total in the past 100 years.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Wind Mn mph	Max gust	Mean pressure	Anom
December	8.7	+0.4	2.0	-0.5	42.5	66 %	81.4	154 %	7.7	51	1021.2	+6.1
January	10.3	+2.8	4.3	+2.8	84.8	139 %	73.7	125 %	9.6	47	1013.1	-2.9
February	11.1	+3.2	0.3	-1.0	22.0	53 %	149.5	215 %	6.8	43	1023.8	+7.1

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