

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

APRIL 2009

Temperature (°C / °F)			Anomaly	Rank in the past 128 years			
Mean maximum	16.0	60.8	+2.9	7 th highest			
Mean minimum	5.3	41.5	+1.2	10 th highest			
Daily mean	10.7	51.3	+2.1	5 th highest			
Highest maximum	21.1	70.0	on 15 th	Lowest maximum	10.6	51.1	on 17 th
Highest minimum	9.9	49.8	on 16 th	Lowest minimum	0.0	32.0	on 1 st
Mean grass minimum	1.7	35.1	+1.0	Lowest grass minimum	-4.0	24.8	on 1 st
Mean earth @30 cm	10.9	51.6	+1.5	Earth @100 cm	9.5	49.1	
Frost duration (hrs)	0.0			Rain duration (hrs)	35.9		
Rainfall total (mm / in)	28.8	1.13	59 %	34 th lowest			
Highest daily fall	5.6	0.22	on 16 th				
Number of: Dry days (<0.2mm)	17	Wet days (>0.9mm)	9	days ≥5mm	1		
Sunshine total (hrs)	188.6	Daily mean	6.29	146 %	Sunniest day	12.8	on 21 st
N° days with: Air frost	0	Ground frost	12	Snow falling	0	Snow lying	0
Thunder	2	Hail ≥5mm	0	Small hail/ice	1	Fog @09	1 Nil sun 4
Air pressure MSL : Mean @09 GMT (mbar/in)	1013.8		-1.5	29.94			
Absolute highest	1028.8			30.38		on 22 nd	
Absolute lowest	994.2			29.36		on 27 th	

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

Notes:

Dry, Sunny, Very Mild.

Temperature: Despite being the 5th mildest April in 128 years, it was eclipsed as recently as 2007 by the current record holder. The only other milder Aprils were in 1945, 1943 and 1893. The mean maximum is 2.6° below the record held jointly by 2007 and 1893, while the mean minimum is 1.1° below the record set in 1961. The highest max is 0.4° above the median and 5.5° below the record. The lowest max is 3.0° above the median, is highest since 1960 and ranks 7th highest in 97 years. The highest min is close to the median, while the lowest min is 1.9° above the median and ranks 6th highest in 106 years. This is the first April since 1987 to be free of air frost, although the min of 0.0° on the 1st suggests a high probability of one somewhere in the local area. Only 7 Aprils since 1904 have been air frost free. Despite this, the number of ground frosts is only 1 fewer than average. Earth temperatures are above average. **Rainfall:** Quite a dry April, with just over half the average rainfall. It is, however, only driest since 2007, which was one of the driest Aprils for a century. In recent years 2003 and 1997 also had drier Aprils than this. The number of dry days is average, but the month's highest 24 hour total is 5.5 mm below the median and is 2nd lowest after 2007 since 1990. A 9 day dry spell ended on the 5th and one of 6 days ended on the 23rd. Thunder was recorded on the 15th and 27th, and small hail fell on this latter date. The highest rainfall rate was 64 mm/hr on the 15th at 2227 GMT. **Sunshine:** This has been quite a sunny April, with only 1997, 2002 and 2007 sunnier in recent years. The 7 day period to the 24th was particularly sunny with a total of 74.3 hours, a mean of 10.6 hours per day. Conversely, the 4 days to the 12th produced a total of only 6 minutes sun. Overall there were 8 days with <3 hours, 16 with =>6 hours, 10 with =>9 hours and 4 with =>12 hours. **Wind:** The mean wind speed this April was 5.6 mph, 1.4 mph below average. The windiest day was the 8th, mean 10.1 mph, 3.6 mph below average and lowest in over 22 years. The highest gust, also on the 8th, was 37 mph. The 20th was the least windy day, mean 2.8 mph, and there were 1074 minutes (17.90 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days : N,3 NE,6 E,1 SE,2 S,10 SW,5 W,2 NW,1. **Humidity:** The overall mean relative humidity was 72.4 % and the lowest value reached was 27 % on the 21st. The mean water vapour content per kg of air was 5.9 g at 0900 GMT and 5.5 g at 1500 GMT. **Commentary: From the 1st to the 8th :** Temperatures were above normal by day, with anomalies for daily max between +3° and +6°. Apart from the min on the 1st, anomaly -3.0°, daily anomalies were between +1° and +5°. Dry until the 5th, then 3.6 mm over the next 2 days. Quite sunny, with the accumulation over 20 hours above normal by the 8th. Winds were light or moderate, NE'ly on 1st becoming SW'ly on 3rd, E'ly on 5th and increasing fresh SW'ly on 7th. **From the 9th to the 17th :** Anomalies for daily max ranged from -3.0° on the 17th to +7.7° on the 15th, but were also negative on the 11th and 12th, while minima had daily anomalies between -1° and +6°. Dry only on the 12th and 13th, although the highest daily fall was only 5.6 mm, on the 16th. Sunshine was poor overall, with a reasonable total only on the 13th and 14th, and 6 days with a maximum of only 0.3 hours. Winds were light or moderate, S'ly on the 9th becoming N'ly on 11th then backing through S to NE'ly by the 15th. **From the 18th to the 30th :** Daily maxima were generally above normal except on the 27th and 28th, with anomalies between +5.6° on the 20th and -3.8° on the 27th. Daily minima were near normal until the 25th, then 3 cooler nights gave anomalies between -3.6° on the 26th and -4.7° on the 28th. Dry until the 23rd then 9.7 mm to the 27th, becoming dry again thereafter. Very sunny, especially between the 18th and 24th, and only 2 days with <3 hours. Winds were mainly moderate, N'ly at first, backing W'ly on the 21st, then becoming S'ly on the 23rd.

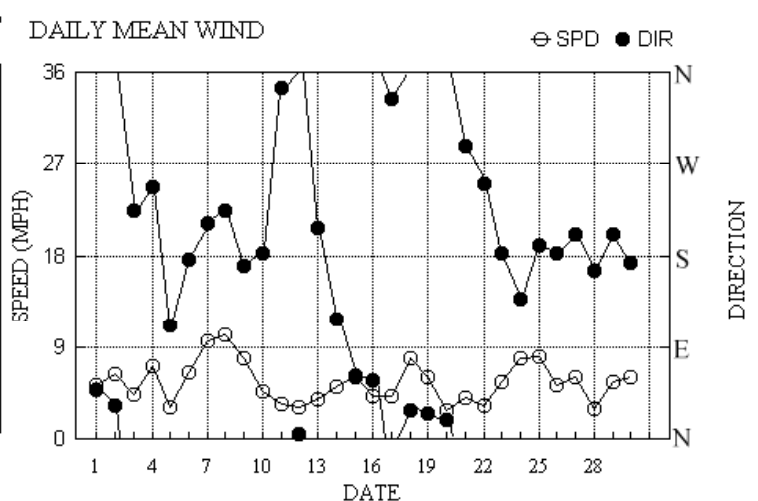
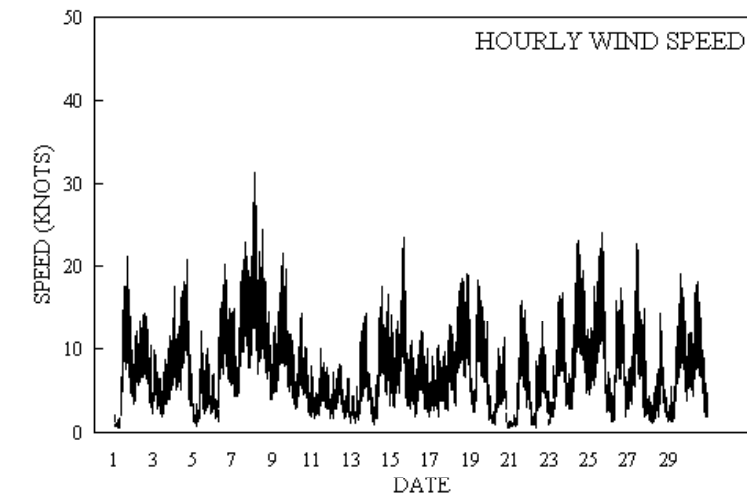
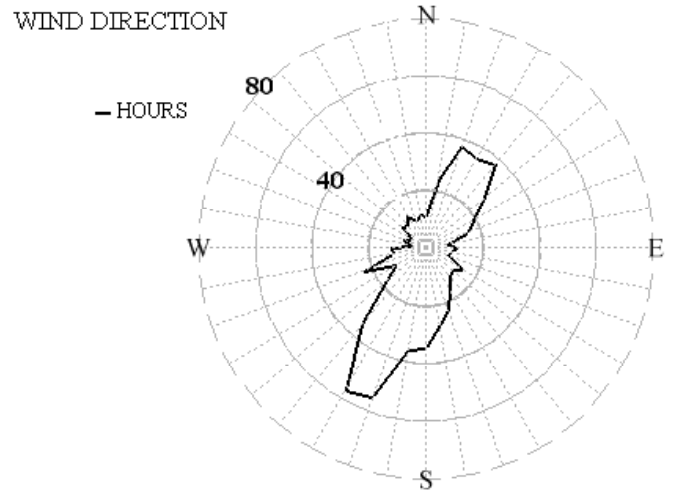
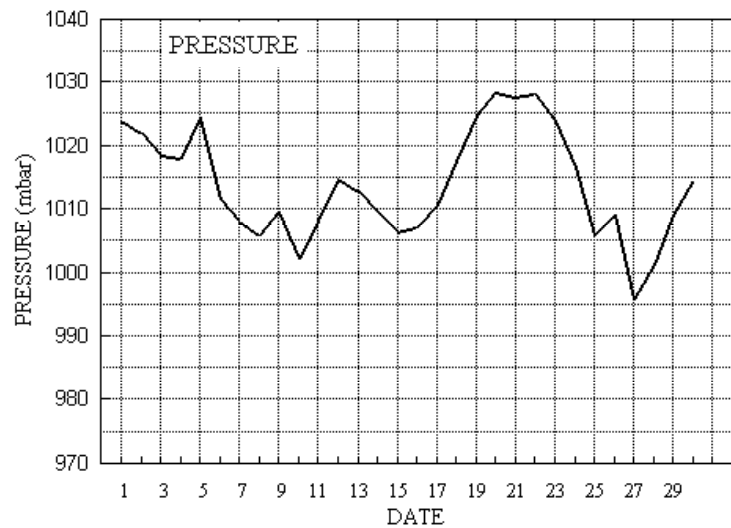
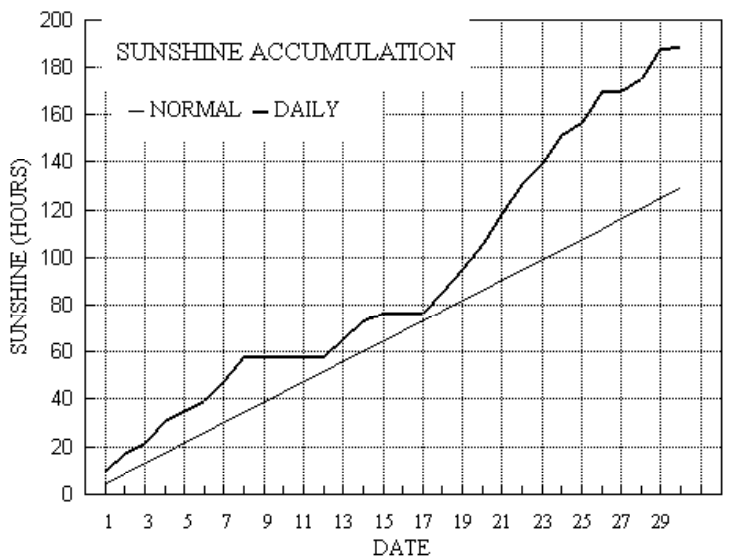
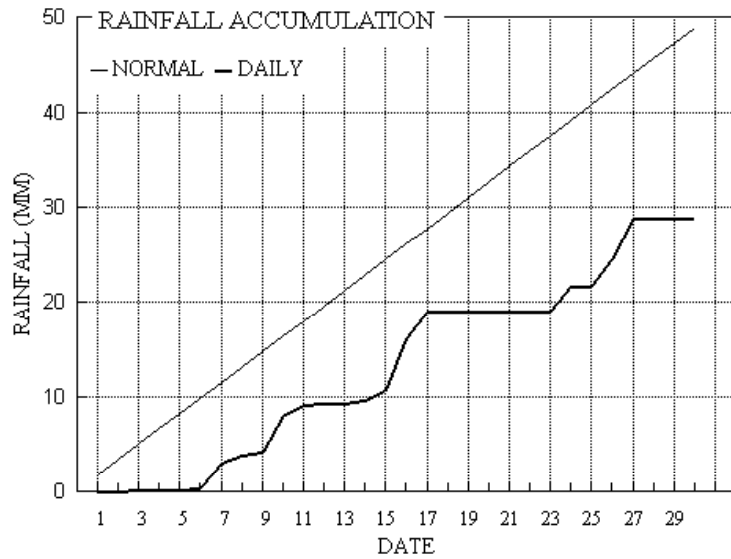
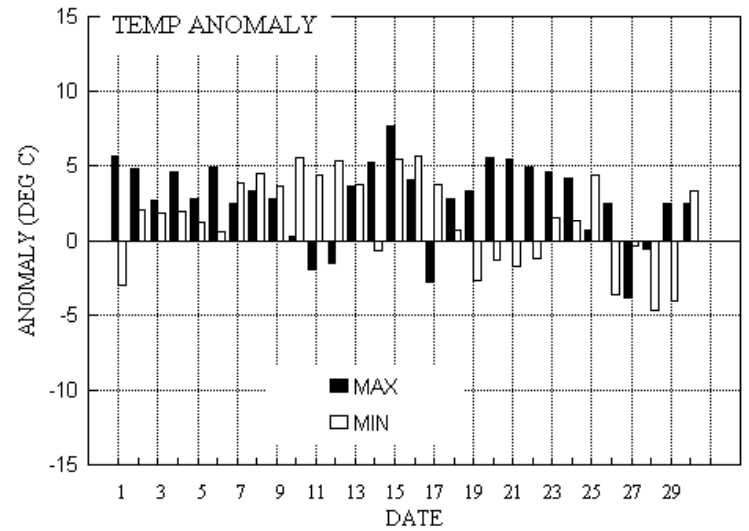
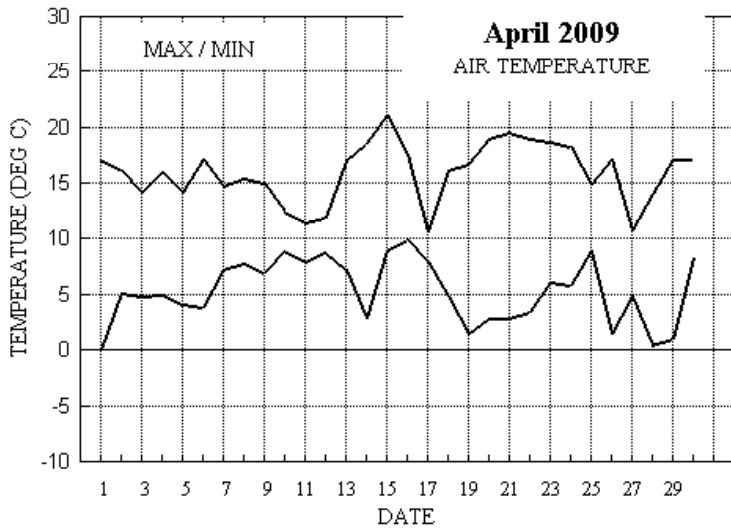
Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

1 st to the 10 th				11 th to the 20 th				21 st to the 30 th			
+3.4°	+2.2°	48 %	135 %	+2.6°	+2.6°	69 %	112 %	+2.3°	-0.5°	60 %	193 %

B J Burton FRMetS

Hon. Met. Officer to Wokingham Town Council.

Wokingham Climatological Graphs for April 2009



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: APRIL 2009

Date	Max C	Min C	Rain mm	Grass Min	30cm C	100cm C	Sun hrs	Frost hrs	pp09 mbar	Af Gf	Sf Sl	Th Ha	Ic Fg	Vec mean ddd ff sp	Max gust ddd gg HHhh	High hr ddd ff HH	Rain hrs
1	17.1	0.0	0.0	-4.0	8.3	7.8	10.0	0.0	1023.9	0 1 0 0	0 0 0 0	0 0 0 0	48	4.1 4.6	41 21 1632	47 9 16	0.0
2	16.2	5.1	0.0	-1.3	8.6	7.9	7.2	0.0	1021.8	0 1 0 0	0 0 0 0	0 0 0 0	33	5.5 5.6	31 15 1307	44 8 13	0.0
3	14.1	4.9	0.1	1.9	9.0	8.0	4.4	0.0	1018.5	0 0 0 0	0 0 0 0	0 0 0 1	225	1.0 3.8	199 14 2309	207 7 22	0.4
4	16.0	5.0	0.0	5.2	9.2	8.1	9.2	0.0	1017.8	0 0 0 0	0 0 0 0	0 0 0 0	247	5.5 6.2	271 21 1516	256 10 14	0.0
5	14.2	4.2	0.0	0.3	9.6	8.3	3.8	0.0	1024.4	0 0 0 0	0 0 0 0	0 0 0 0	111	1.6 2.7	95 12 0910	98 6 09	0.0
6	17.1	3.9	0.2	-0.9	9.5	8.4	4.8	0.0	1011.4	0 1 0 0	0 0 0 0	0 0 0 0	176	4.8 5.7	163 20 1311	174 10 14	0.7
7	14.7	7.2	2.7	4.9	9.8	8.5	8.0	0.0	1008.1	0 0 0 0	0 0 0 0	0 0 0 0	212	7.9 8.3	198 25 2342	195 12 23	3.3
8	15.5	7.8	0.7	5.2	9.9	8.7	10.4	0.0	1005.8	0 0 0 0	0 0 0 0	0 0 0 0	224	7.9 8.8	190 32 0116	195 14 01	0.5
9	15.0	6.9	0.4	1.9	10.3	8.8	0.1	0.0	1009.6	0 0 0 0	0 0 0 0	0 0 0 0	170	6.2 6.8	191 22 1209	195 10 12	0.5
10	12.5	8.9	3.8	3.2	10.4	8.9	0.0	0.0	1002.2	0 0 0 0	0 0 0 0	0 0 0 0	183	3.6 4.0	188 15 1139	188 7 11	6.0
11	11.5	7.9	1.2	7.5	10.4	9.1	0.0	0.0	1008.0	0 0 0 0	0 0 0 0	0 0 0 0	345	2.6 2.9	330 10 1025	333 4 12	4.5
12	11.9	8.8	0.1	7.4	10.5	9.2	0.0	0.0	1014.8	0 0 0 0	0 0 0 0	0 0 0 0	4	2.3 2.7	25 8 0821	9 4 09	0.5
13	17.0	7.3	0.0	2.2	10.5	9.3	7.7	0.0	1012.7	0 0 0 0	0 0 0 0	0 0 0 0	207	2.6 3.4	198 15 1722	198 8 17	0.0
14	18.6	2.8	0.3	-1.8	10.8	9.4	7.9	0.0	1009.6	0 1 0 0	0 0 0 0	0 0 0 0	117	2.9 4.4	206 18 1214	155 7 13	0.4
15	21.1	8.9	1.0	6.3	11.2	9.5	3.1	0.0	1006.2	0 0 0 0	1 0 0 0	0 0 0 0	60	5.2 5.4	80 24 1414	65 10 13	0.2
16	17.5	9.9	5.6	6.7	11.7	9.6	0.3	0.0	1007.0	0 0 0 0	0 0 0 0	0 0 0 0	57	2.8 3.7	74 12 1117	33 6 12	6.6
17	10.6	8.0	3.0	7.9	11.9	9.8	0.0	0.0	1010.5	0 0 0 0	0 0 0 0	0 0 0 0	334	3.0 3.6	24 13 2202	27 6 22	3.7
18	16.2	4.9	0.0	1.3	11.4	10.0	8.2	0.0	1017.4	0 0 0 0	0 0 0 0	0 0 0 0	28	6.8 6.8	26 19 1927	24 9 19	0.0
19	16.7	1.5	0.0	-3.5	11.4	10.1	10.2	0.0	1024.5	0 1 0 0	0 0 0 0	0 0 0 0	24	5.2 5.3	27 19 0924	24 9 10	0.0
20	19.0	2.9	0.0	-1.9	11.5	10.1	10.4	0.0	1028.4	0 1 0 0	0 0 0 0	0 0 0 0	19	2.1 2.4	13 12 1613	14 5 15	0.0
21	19.6	2.9	0.0	-1.1	11.7	10.2	12.8	0.0	1027.6	0 1 0 0	0 0 0 0	0 0 0 0	288	3.0 3.5	295 16 1453	254 7 13	0.0
22	19.0	3.4	0.0	-1.2	12.0	10.3	12.5	0.0	1028.0	0 1 0 0	0 0 0 0	0 0 0 0	251	1.5 2.9	223 13 1413	237 6 14	0.0
23	18.7	6.1	0.0	1.9	12.4	10.4	8.4	0.0	1023.9	0 0 0 0	0 0 0 0	0 0 0 0	183	4.2 4.9	235 17 1500	209 9 15	0.0
24	18.3	5.9	2.5	2.2	12.4	10.6	11.8	0.0	1016.5	0 0 0 0	0 0 0 0	0 0 0 0	138	6.3 6.9	164 23 1124	146 11 12	1.0
25	14.8	9.0	0.0	7.5	12.4	10.7	5.9	0.0	1005.8	0 0 0 0	0 0 0 0	0 0 0 0	191	5.7 7.0	203 24 1513	208 11 15	0.0
26	17.1	1.5	2.9	-2.9	12.1	10.8	12.7	0.0	1008.9	0 1 0 0	0 0 0 0	0 0 0 0	183	4.0 4.5	194 18 1414	210 9 14	2.9
27	10.8	4.8	4.3	-1.0	12.1	10.8	0.6	0.0	995.6	0 1 0 0	1 0 1 0	0 0 0 0	201	4.7 5.2	189 23 0938	191 10 09	4.4
28	14.0	0.4	0.0	-4.0	11.5	10.9	5.3	0.0	1001.1	0 1 0 0	0 0 0 0	0 0 0 0	165	1.0 2.6	114 15 1456	150 6 15	0.0
29	17.1	1.1	tr	-3.5	11.6	10.9	12.4	0.0	1008.9	0 1 0 0	0 0 0 0	0 0 0 0	201	4.5 4.8	236 19 1547	212 9 16	0.1
30	17.1	8.4	tr	4.9	12.0	10.9	0.5	0.0	1014.5	0 0 0 0	0 0 0 0	0 0 0 0	173	5.0 5.3	197 18 1106	184 9 11	0.2
Total			28.8				188.6	0.0									35.9
Mean	16.0	5.3		1.7	10.9	9.5	6.29	0.0	1013.8					177	1.2 4.8		
Anom	+2.9	+1.2	59%		+1.5	+0.3	146%										
Daily mean		10.7															
Anom		+2.1															

Number of days with:
 Air frost = 0 Ground frost = 12 Nil sun = 4
 Snow falling = 0 Snow lying = 0 Thunder = 2
 Hail=>5mm = 0 Hail<5mm or ice = 1 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 April 2009

Date	VV	N	dd	ff	gg	TT	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	NChs	Date	Remarks
1	64	1	06	03	07	11.1	4.1	62	5.0	1023.9	1	005	02	0	0	1	5	7	0	0	81650			1	
2	40	8	04	07	12	8.6	5.8	82	5.7	1021.8	1	006	05	2	2	8	6	3	/	/	88709			2	
3	09	8	30	02	05	5.0	4.2	95	5.1	1018.5	2	001	42	4	4	8	6	0	/	/	88701			3	
4	62	7	26	04	13	11.7	7.0	73	6.1	1017.8	2	018	03	2	2	6	8	4	3	2	85818			4	2Sc30 /Ac65 /Ci75 COTRA Cu fra/hum
5	83	6	07	04	08	11.0	2.3	55	4.5	1024.4	8	002	02	2	2	2	8	6	0	1	81845	86075		5	1Sc45 1Sc56 COTRA Cu med sgen Sc cas
6	56	7	17	06	13	12.6	5.9	64	5.8	1011.4	7	018	05	2	2	1	0	8	7	1	81357	87075		6	1Ac65 COTRA
7	83	6	25	08	17	10.2	3.8	64	4.9	1008.1	2	016	03	2	2	3	2	5	0	8	83825	85078		7	2Cs75 COTRA Cu med Cs edge E
8	82	2	26	11	22	11.0	3.6	60	4.9	1005.8	2	027	03	0	0	2	1	5	0	0	82828			8	Cu hum
9	30	8	18	10	17	12.6	10.9	90	8.1	1009.6	1	003	50	5	2	8	5	2	/	/	83705	87707	88615	9	
10	60	8	17	04	10	11.0	8.8	86	7.1	1002.2	7	003	62	6	2	3	5	3	2	/	81708	88550		10	1Sc20 2Sc40
11	30	8	31	03	07	9.1	7.8	92	6.6	1008.0	3	012	51	6	5	8	7	2	/	/	81704	85705	88707	11	
12	35	8	36	05	08	9.4	8.2	92	6.7	1014.8	2	011	58	6	5	8	7	2	/	/	82703	86704	88706	12	
13	50	7	36	01	03	10.4	7.5	82	6.3	1012.7	2	003	05	2	2	7	5	4	/	/	85710	87635		13	
14	62	7	20	04	09	13.8	5.8	59	5.5	1009.6	2	002	03	2	2	1	8	6	8	1	81830	87075		14	1Sc56 2Ac57 1Ac62 COTRA 1Ac cas Cu fra
15	23	8	05	05	14	11.4	8.9	85	7.1	1006.2	7	007	05	2	2	8	6	3	/	/	85708	88710		15	
16	65	7	07	04	08	13.5	9.1	75	7.2	1007.0	1	011	03	2	2	1	8	4	3	1	81818	83360	86075	16	1Sc56 Absent 16&17, vv&cld est
17	50	8	28	01	10	8.9	7.5	91	6.4	1010.5	3	015	61	6	2	8	7	2	/	/	86705	88708		17	
18	59	7	03	09	15	8.9	5.1	77	5.5	1017.4	2	014	05	1	1	7	5	4	/	/	87615			18	
19	63	4	03	11	16	10.2	5.2	71	5.5	1024.5	2	007	01	1	1	4	5	4	0	0	84618			19	
20	62	1	02	04	07	11.2	5.9	70	5.7	1028.4	1	003	01	1	1	1	6	2	0	0	81705			20	
21	56	2	26	03	06	13.3	6.8	64	6.0	1027.6	8	002	05	0	0	0	0	9	0	4	82078			21	COTRA Ci edge NW
22	72	6	06	03	08	13.0	5.3	60	5.4	1028.0	8	006	02	1	1	0	0	9	0	1	86080			22	COTRA
23	57	7	20	05	10	13.7	8.2	69	6.7	1023.9	8	001	05	2	2	1	1	5	0	8	81822	87275		23	COTRA Cu fra
24	65	7	15	10	21	15.1	5.2	52	5.4	1016.5	8	009	03	2	2	1	1	6	3	1	81835	86075		24	1Ac68 1Cc72 COTRA Cu fra U/a cont
25	84	7	20	06	16	10.9	5.8	71	5.8	1005.8	3	014	03	6	1	7	8	5	/	/	82820	83635	87645	25	Cu med
26	84	1	16	07	13	13.6	3.9	52	5.1	1008.9	8	005	03	0	0	1	2	6	0	0	81835			26	Cu med
27	57	8	20	09	18	9.3	7.4	88	6.5	995.6	7	025	63	6	6	5	7	3	2	/	82708	84712	88540	27	
28	61	7	06	03	05	7.0	6.0	93	5.9	1001.1	2	011	01	4	2	7	5	3	/	/	83707	87610		28	
29	75	1	19	04	08	13.0	3.9	54	4.8	1008.9	2	011	03	0	0	1	2	6	0	1	81830			29	1Ci78 Cu med
30	75	7	16	08	17	14.6	7.8	64	6.6	1014.5	2	007	01	2	2	4	8	5	7	8	82825	83645	87270	30	3Ac60 COTRA Cu hum/med Halo 22 part

Mean vis = 15.9 km

Mean cloud = 6.0 75%

Mean wind speed = 5.5 kn

Mean gust = 11 kn

Mean TT = 11.2 °C

Mean Td = 6.3 °C

Mean RH = 73.1 %

Mean r = 5.9 g/kg

Mean PPP = 1013.8 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

Td = 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 April 2009

Date	VV	N	dd	ff	gg	TT	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	NChs	NChs	Date	Remarks
1	82	4	05	08	15	16.4	3.5	42	5.0	1021.6	8	017	01	1	1	4	4	7	0	0	84650				1	
2	59	0	05	07	14	15.5	6.0	53	5.7	1019.2	7	018	05	0	0	0	0	9	0	0					2	Sky turbid
3	50	0	22	04	09	12.4	5.6	63	5.7	1016.4	8	018	05	1	1	0	0	9	0	0					3	Sky turbid
4	86	1	26	10	18	15.2	-0.4	34	3.7	1019.4	2	009	02	0	0	1	1	7	0	1	81856				4	1Ci78
5	83	7	08	02	06	13.5	2.5	47	4.7	1021.1	8	023	02	2	2	7	8	6	/	1	82847	86656			5	COTRA Cu med
6	73	8	19	11	19	15.7	1.7	39	4.3	1006.0	7	022	03	2	2	1	1	7	8	7	81850	83362	85365		6	8Cs70 Cu hum Ac cas
7	86	3	20	12	22	13.4	1.8	45	4.2	1008.1	7	004	02	0	0	3	2	6	0	8	83848				7	1Cs75 Cu med Cs edge E
8	84	2	26	09	18	15.2	2.5	42	4.7	1008.4	1	009	02	0	0	2	4	7	0	1	82850				8	1Sc56 1Ci80 COTRA Cu med/hum
9	75	7	18	08	18	13.8	9.7	76	7.5	1007.5	8	019	01	5	2	7	8	4	/	2	85815	87625			9	/Ci75 Cu hum/fra
10	60	8	20	05	10	11.9	9.8	87	7.6	1002.2	7	001	61	6	6	4	8	4	7	/	82810	83640	88460		10	3Ac58 Cu med/hum
11	82	8	02	05	08	11.0	7.5	79	6.5	1009.9	2	010	21	6	2	8	8	4	/	/	82815	83635	88645		11	Cu med
12	57	8	33	01	04	11.5	8.9	84	7.0	1014.6	8	003	05	2	2	8	5	3	/	/	85708	88612			12	
13	80	4	22	06	13	16.7	3.7	42	5.0	1009.4	7	019	02	1	1	3	4	6	0	1	81848	83650			13	2Ci80 COTRA Cu hum
14	84	7	16	07	13	17.0	5.3	46	5.5	1008.6	6	005	02	2	2	2	8	6	7	/	81845	87357			14	2Sc56 Cu med NW
15	65	7	08	09	23	20.0	9.9	52	7.9	1003.0	6	011	02	1	1	1	2	6	0	2	81845	87075			15	Absent 15-17, vv&cld est
16	40	7	06	04	11	11.9	10.3	90	7.8	1006.7	5	000	81	8	2	7	9	3	/	/	83708	86935			16	
17	30	8	33	05	09	10.2	8.1	87	6.7	1011.7	1	007	50	5	2	8	7	3	/	/	83706	88708			17	
18	63	4	04	09	18	15.9	5.7	51	6.0	1018.1	2	004	02	1	1	1	1	6	8	1	81838	83075			18	2Ac65 COTRA Cu hum
19	67	2	02	07	15	15.8	6.2	53	6.0	1024.1	7	002	02	0	0	2	8	6	0	0	81838				19	1Sc45 Cu hum
20	68	5	02	05	09	18.6	5.3	42	5.4	1026.7	7	009	02	1	1	5	8	7	0	0	83850				20	2Sc56 Cu hum Sky turbid
21	75	3	29	07	16	18.9	1.3	31	4.1	1025.9	7	010	02	0	0	0	0	9	0	1	83080				21	COTRA
22	80	6	22	06	13	18.1	4.4	40	5.6	1025.1	7	017	02	2	2	2	4	7	0	1	81850	85080			22	2Sc56 COTRA Cu hum U/a cont
23	78	8	20	08	16	17.8	4.9	43	5.1	1021.5	7	014	02	2	2	0	0	9	0	7	88275				23	Absent vv&cld est
24	78	6	16	09	19	18.1	0.7	31	4.0	1012.2	7	026	02	2	2	0	0	9	0	8	81170	83272	85075		24	COTRA
25	84	3	21	11	23	14.3	0.7	39	4.0	1008.1	2	012	02	1	1	3	2	7	0	1	83850				25	1Ci75 Cu med
26	88	3	21	09	18	15.8	-0.9	32	3.4	1005.4	7	018	03	0	0	1	1	7	4	1	81856	83357			26	1Ci78 Cu hum Sc len
27	75	7	21	07	13	10.5	5.0	69	5.5	994.9	8	005	15	6	2	6	8	5	7	/	84820	83650	87468		27	/Ac65 Cu con jpW
28	75	6	13	07	15	11.8	2.9	54	4.8	1001.5	3	004	15	1	1	3	9	6	6	3	81930	83845	85072		28	2Ac58 jp E-S vv 50k ex p
29	81	3	19	08	17	16.6	2.0	37	4.5	1010.6	2	008	02	0	0	2	2	7	0	1	82850				29	2Ci78 COTRA Cu hum/med
30	59	8	18	07	14	13.4	10.1	81	7.6	1016.4	2	013	60	6	2	8	8	4	/	/	81712	83818	88630		30	Cu hum

Mean vis = 28.3 km

Mean cloud = 5.1 64%

Mean wind speed = 7.1 kn

Mean gust = 15 kn

Mean TT = 14.9 °C

Mean Td = 4.8 °C

Mean RH = 53.7 %

Mean r = 5.5 g/kg

Mean PPP = 1012.8 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

Td = 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.

April 2009	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	8.94	17.0	1331	0.1	542	68.2	94.5	550	38.5	1530	2.68	4.57	5.9	1206	3.5	543	1022.71	1024.0	947	1020.7	1624	0.0	
2	9.95	15.9	1530	5.0	3	75.2	93.2	2325	49.6	1409	5.47	5.55	6.4	1502	4.6	3	1020.44	1022.4	3	1018.3	1722	0.0	
3	8.00	14.0	1705	4.6	701	82.5	95.1	802	55.7	1609	4.99	5.39	6.3	1454	5.0	522	1017.48	1019.3	9	1015.1	1755	0.0	
4	11.03	16.0	1416	5.6	2359	61.4	90.2	616	31.4	1700	3.22	4.81	6.8	803	3.0	1701	1018.95	1024.2	2359	1015.6	301	0.1	
5	9.12	14.0	1520	4.1	322	64.8	88.6	326	39.5	1358	2.29	4.43	5.2	900	3.8	1358	1022.11	1024.9	742	1017.7	2358	0.0	
6	11.15	17.1	1313	3.8	547	67.3	92.2	616	37.1	1454	4.77	5.37	6.9	2246	4.1	1508	1009.39	1017.7	0	1004.7	2117	0.1	
7	10.14	14.9	1326	7.0	449	65.6	89.6	434	38.0	1433	3.52	4.94	6.3	0	3.9	1140	1007.22	1009.0	1054	1004.1	2359	0.1	
8	10.95	15.5	1415	6.7	2324	64.4	91.4	442	37.1	1635	3.99	5.11	6.9	448	3.9	1635	1006.78	1011.9	2328	1000.6	402	2.6	
9	12.04	15.0	1622	7.4	0	80.6	94.0	537	61.6	1705	8.71	7.05	8.4	830	5.0	15	1007.92	1011.5	0	1003.0	2350	0.7	
10	11.15	12.6	0	8.5	416	84.0	91.7	2227	72.0	4	8.54	6.98	7.8	1451	6.1	400	1002.94	1005.5	2341	1002.0	205	2.9	
11	9.44	11.4	1642	7.7	427	87.6	93.6	705	76.7	1722	7.48	6.45	7.1	1412	5.8	207	1008.99	1012.7	2322	1005.1	42	2.3	
12	9.76	11.8	1708	7.0	2208	89.8	95.4	2349	81.7	1609	8.15	6.71	7.3	1412	5.9	2208	1014.18	1015.1	1215	1012.5	108	0.3	
13	11.12	17.1	1449	4.8	2317	68.7	95.2	553	32.9	1647	4.77	5.41	7.5	941	3.7	1647	1011.11	1013.9	2	1008.4	1645	0.0	
14	11.71	18.6	1251	2.7	506	67.6	94.1	517	36.2	1233	5.26	5.57	7.4	1747	4.3	506	1009.01	1009.7	2	1008.1	2351	0.0	
15	13.99	21.0	1331	8.9	429	73.7	90.9	2323	48.1	1337	9.09	7.24	9.3	1225	6.0	414	1005.17	1008.4	4	1002.7	1444	1.1	
16	12.28	17.5	1209	9.9	553	82.2	93.1	2336	56.7	1210	9.22	7.27	8.5	1206	6.5	1221	1006.78	1008.5	2027	1004.7	0	3.2	
17	9.35	10.6	1704	7.3	2358	90.2	93.3	2124	85.0	1325	7.84	6.60	7.2	1940	5.7	2358	1010.95	1014.5	2359	1008.2	2	4.5	
18	9.81	16.2	1517	4.6	518	72.9	90.8	8	39.5	1657	4.76	5.31	6.8	1102	4.2	1758	1018.01	1023.3	2335	1014.2	108	0.1	
19	9.41	16.5	1435	1.5	401	74.3	95.1	520	47.8	1417	4.66	5.26	7.1	1321	3.9	401	1024.39	1027.4	2354	1022.9	240	0.1	
20	10.68	19.0	1419	2.9	436	70.4	95.2	553	35.5	1529	4.63	5.21	6.6	1345	4.3	436	1027.42	1028.5	757	1026.3	1811	0.0	
21	12.17	19.5	1346	2.9	420	64.8	95.4	633	26.9	1427	4.53	5.20	6.9	941	3.6	1427	1027.12	1028.5	2357	1025.2	1546	0.0	
22	11.72	18.9	1357	3.5	511	67.1	95.1	616	34.6	1400	4.93	5.33	6.4	717	4.2	942	1026.52	1028.8	538	1024.1	1802	0.0	
23	12.03	18.6	1404	6.0	330	65.7	93.4	411	37.1	1313	5.11	5.43	7.3	934	4.0	1752	1022.45	1024.7	4	1019.8	2351	0.0	
24	13.25	18.3	1425	5.9	245	52.4	87.5	246	28.9	1450	2.98	4.71	5.7	903	3.6	1450	1013.99	1019.9	0	1006.6	2357	0.0	
25	11.01	15.0	1423	5.1	2222	60.1	89.9	654	36.3	1512	3.16	4.82	6.8	733	3.7	1501	1007.16	1010.9	2205	1003.0	442	2.3	
26	9.93	17.0	1401	1.5	456	65.0	95.0	545	27.6	1422	2.56	4.61	6.5	734	3.1	1422	1007.11	1010.8	23	1002.7	2358	0.0	
27	7.29	10.8	1456	2.3	2355	86.0	94.8	2359	68.0	1459	5.08	5.56	6.8	758	4.3	2355	997.10	1002.8	6	994.2	1039	7.1	
28	7.20	13.9	1411	0.3	338	77.3	96.2	354	32.7	1436	2.87	4.75	6.7	1057	3.1	1436	1001.42	1005.2	2334	997.9	43	0.1	
29	9.79	17.2	1445	0.9	445	65.3	95.3	517	32.9	1322	2.59	4.61	6.1	1201	3.3	1827	1009.72	1013.8	2249	1005.0	10	0.0	
30	12.23	16.0	1113	9.1	4	75.9	93.2	2231	59.1	1021	8.01	6.66	7.9	1615	5.4	51	1015.96	1021.2	2355	1013.1	431	0.1	
Total																							27.7
Mean	10.55	15.90		4.93		72.4	93.10		46.14		5.20	5.56	6.95		4.38		1013.35	1016.63		1010.21			
Max	13.99	21.00		9.86		90.2	96.20		85.00		9.22	7.27	9.29		6.47		1027.42	1028.78		1026.30			
Min	7.20	10.62		0.12		52.4	87.50		26.85		2.29	4.43	5.22		3.04		997.10	1002.76		994.21			

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