

**Bracknell Harmans Water
Berkshire**

Meteorological Data

2004



**Observer Paul Fishwick
3 Whistley Close
Harmans Water
Bracknell**

Bracknell Harmans Water Meteorological Data 2004

Altitude 71m Grid Ref. SU882685 Climatological Observers Link Station B Category
Cover photograph – Snow lying at Martins Heron Station on 4th March 2004

Meteorological records began at this site on 20 April 2000, with records used from the following sites for comparison and used in averages:

Beaufort Park Bracknell (Meteorological Office) 1/1971 to 12/1973

Bracknell Bullbrook (Vincent Rise) (Paul Fishwick) 1/1973 to 7/1983

Bracknell Harmans Water (Uffington Drive) (Paul Fishwick) 8/1983 to 4/2000

On the 31st December 2004 the station instrumentation was as follows:

- Davis Vantage Pro AWS installed on 27 December 2002
Includes Temperature (Maximum and Minimum), Rainfall (amount and rate), Relative Humidity, Wind (direction, speed, highest gust and direction), barometric pressure. (Console pictured on front cover).
- Grass Minimum Sheathed thermometer
- Snowdon pattern raingauge
- R & D Instruments Sunshine Recorder installed on 8 November 2003. Also, R & D Instruments Sunshine Recorder installed on 8th April 2004 at Vincent Rise Harmanswater which has a more exposed site than at Whsitley Close, especially at sunrise and sunset. The Vincent rise data is used as the official record for Harmanswater.

Temperature (c)

Table 1

Month	Mean Max	Mean Min	Mean	High Max	Date	Low Max	Date	High Min	Date	Low Min	Date	Mean G Min	Low G Min	Date
Jan	8.0	2.4	5.2	11.4	10	4.2	29	7.8	11	-4.2	29	1.3	-5.8	29
Feb	8.2	2.8	5.5	15.1	4	2.6	28	11.8	5	-5.7	26	1.1	-8.1	26
Mar	10.5	2.9	6.7	18.4	31	5.2	11	10.3	16	-5.5	1	1.0	-7.7	1
Apr	14.6	5.0	9.8	22.4	24	8.9	29	10.1	27	-0.2	20	2.8	-2.9	20
May	18.8	8.2	13.5	25.2	18	10.6	4	13.7	20	3.1	23	6.4	0.9	23
Jun	22.4	11.4	16.9	30.1	8	16.1	23	15.8	5	5.3	19	9.4	2.7	19
Jul	22.8	11.8	17.3	29.2	31	17.9	11	16.4	16	8.2	5/6/ 13	8.7	3.9	13
Aug	23.8	13.9	18.9	30.2	8	18.6	29	19.5	9	8.2	31	9.5	4.1	28
Sept	20.5	11.3	15.9	28.9	5	14.5	25	16.4	7	4.0	25	7.3	-1.0	16
Oct	14.4	8.0	11.2	17.3	2	10.6	15/16	14.1	23	2.5	19	5.2	-1.6	19
Nov	10.6	4.9	7.7	14.2	3	4.5	20	9.2	3	-2.7	19	3.0	-6.7	14
Dec	8.1	1.8	4.9	12.9	30	3.3	26	9.4	16	-4.2	26	0.4	-7.5	26, 27
Year	15.2	7.0	11.1									4.7		
D.F.A	+0.9	+1.1	+1.0											

Table 2. Days with temperature at or above 25 (c)

Mth	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Days	0	0	0	0	1	7	6	9	5	0	0	0	28

Table 3 Temperature Extremes 2004

Rank	Highest Maximum	Date	Lowest Minimum	Date
1	30.2	8 th August	-5.7	26 th February
2	30.1	8 th June	-5.5	1 st March
3	29.8	7 th August	-5.3	27 th February & 2 nd March
4	29.5	14 th June	-4.2	29 th January, 28 th February & 26 th December
5	29.4	4 th August	-4.1	27 th December
6	29.2	31 July	-4.0	9 th February
7	28.9	2 nd August & 5 th September	-3.7	24 th February & 20 th December
8	28.8	29 th July	-3.3	3 rd January
9	28.6	6 th August	-3.0	28 th February
10	28.3	7 th June & 5 th August	-2.8	30 th January

Table 4 Rainfall

Month	Total	Ave. % (1971-2000)	Highest Daily total	Rain Days 0.2 or more	Wet Days 1.0 or more	Heavy Falls >25mm
Jan	85.8	130%	11.8mm on 7 th	20	16	0
Feb	25.0	58%	6.9mm on 6 th	10	7	0
Mar	38.0	72%	6.6mm on 11 th	17	10	0
Apr	77.7	152%	16.4mm on 27 th	15	13	0
May	53.8	100%	14.5mm on 3 rd	12	10	0
Jun	24.6	44%	9.9mm on 22 nd	8	6	0
Jul	35.0	78%	17.9mm on 7 th	11	5	0
Aug	71.9	135%	19.0mm on 9 th	20	14	0
Sept	25.9	42%	6.5mm on 12 th	12	8	0
Oct	126.2	173%	21.7mm on 13 th	22	18	0
Nov	38.4	59%	6.2mm on 9 th	16	11	0
Dec	50.5	73%	14.1mm on 18 th	10	5	0
Year	652.8	95%		173	123	0
D.F.A.				+6	+4	-2

Table 5 Days with.

Month	Air Frosts	Frost Duration	Ground Frosts	Snow Falling	Snow Lying @ 09h	Thunder	Hail < 5mm	Hail > 5mm	Fog @ 09h
Jan	9	56.9	11	2	2	1	1	0	0
Feb	10	93.5	14	7	3	0	0	0	0
Mar	7	43.4	13	5	1	0	0	0	1
Apr	1	1.1	6	1	0	4	3	0	0
May	0	0	0	0	0	3	1	0	0
Jun	0	0	0	0	0	1	0	0	0
Jul	0	0	0	0	0	2	0	0	0
Aug	0	0	0	0	0	6	0	1	0
Sept	0	0	1	0	0	1	0	0	0
Oct	0	0	2	0	0	0	0	0	0
Nov	5	12.8	9	1	0	0	0	0	1
Dec	9	72.2	16	1	0	0	0	0	1
Year	41	279.9	72	17	6	19	11	1	3
D.F.Ave	-11		-12	+1	-1	+4	+7	All hail	-8

Table 6 Rainfall Wettest to Driest months (mm)

Wettest										Driest	
Oct	Jan	Apr	Aug	May	Dec	Nov	Mar	Jul	Sep	Feb	Jun
126.2	85.8	77.7	71.9	53.8	50.5	38.4	38.0	35.0	25.9	25.0	24.6

Table 7 Rainfall Wettest to Driest months (%)

Wettest										Driest	
Oct	Apr	Aug	Jan	May	Jul	Dec	Mar	Nov	Feb	Jun	Sep
173%	152%	135%	130%	100%	78%	73%	72%	59%	58%	44%	42%

Table 8 Top Five Daily Rainfall Totals

Rank	Daily Total	Date	Rank	Hourly Total	Date
1	21.7mm	13 th October	1	16.1mm	20 th October
2	19.9mm	20 th October	2	14.0mm	5 th August
3	19.0mm	9 th August	3	7.9mm	9 th August
4	17.9mm	7 th July	4	6.7mm	13 th October
5	17.8mm	23 rd October	5	6.1mm	27 th April

Table 9 Top Five Hourly Rainfall Totals

The 16.1mm and 14.0mm falls are included within the top-ten highest hourly falls since records began in 1984.

Table 10 Sunshine Hours, Atmospheric Pressure and 20cm Soil Temperature

Month	Sun Hrs	Sun less Days	Atmospheric Pressure 09h	Diff. From ave.	20cm soil 09h
Jan	66.0	14	1008.5	-7.5	4.9
Feb	69.1	9	1021.7	+5.0	5.8
Mar	96.2	4	1020.5	+4.9	6.1
Apr	131.1	4	1012.9	-2.4	10.1
May	181.0	2	1016.7	+0.8	14.7
Jun	208.2	0	1017.7	-0.7	18.3
Jul	169.1	0	1016.2	-1.4	18.8
Aug	170.0	1	1010.8	-6.3	19.9
Sept	177.5	1	1018.9	+2.4	16.6
Oct	94.4	3	1006.9	-9.3	12.6
Nov	52.5	12	1023.2	+7.1	10.1
Dec	53.4	9	1018.7	+3.6	6.6
Year	1468.6	59	1016.1	+0.1	12.0

- January to March recorded at Whistley Close but amended using factor for difference between Whistley Close site and more exposed site at Vincent Rise (April to December)

Table 11

1971 to 2004 Updated Highest Five Annual Mean Maximum, Mean Minimum and Mean Values (34 Years) at Bracknell Harmanwater.

Rank	Mean Max	Dates	Mean Min	Dates	Mean	Dates
1	15.9	1989	7.3	1999	11.5	1999
2	15.8	1990	7.2	1994, 2002	11.4	1989, 1990
3	15.7	1997	7.1	1998	11.3	1995, 1997
4	15.6	1995, 1999	7.0	1995, 2004	11.2	1998, 2002
5	15.2	1998, 2002, 2004	6.9	1989, 1990	11.1	1994, 2003 & 2004

Table 12
1971 to 2004 Updated Lowest Five Annual Mean Maximum, Mean Minimum and Mean Values (34 Years)
at Bracknell Harmanswater

Rank	Mean Max	Dates	Mean Min	Dates	Mean	Dates
1	13.0	1979	4.9	1973,1979	9.0	1979
2	13.3	1971,1985 &1986	5.1	1978	9.3	1978
3	13.4	1977,1978 & 1980	5.3	1975,1980	9.4	1980, 1985 & 1986
4	13.5	1981	5.4	1986	9.5	1973
5	13.7	1974 , 1987	5.5	1985	9.6	1981

Table 13
1971 to 2004 Updated , Five Wettest and Driest Years (34 Years)
at Bracknell Harmanswater

Rank	Wettest Total	Dates	% of average	Driest Total	Dates	% of average
1	975.1mm	2002	142%	523.1mm	1973	76%
2	966.6mm	2000	140%	532.5mm	1990	77%
3	874.7mm	2001	127%	546.1mm	1976	79%
4	862.3mm	1999	125%	562.3mm	1991	82%
5	800.7mm	1986	116%	568.6mm	2003	83%

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Web sites where additional data can be found are at www.bracknell-berkshire.co.uk/services/weather this site contains daily and monthly data and text daily summary and at www.metlink.org/data where certain daily data can be observed.

Note 30 Years of Weather in Bracknell Harmanswater 1973-2003, which is currently available at the Central Bracknell and Bracknell Harmanswater Libraries will be updated and extended to cover the period 1971-2005 in January 2006 making 35 Years of weather observation in the area.

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