

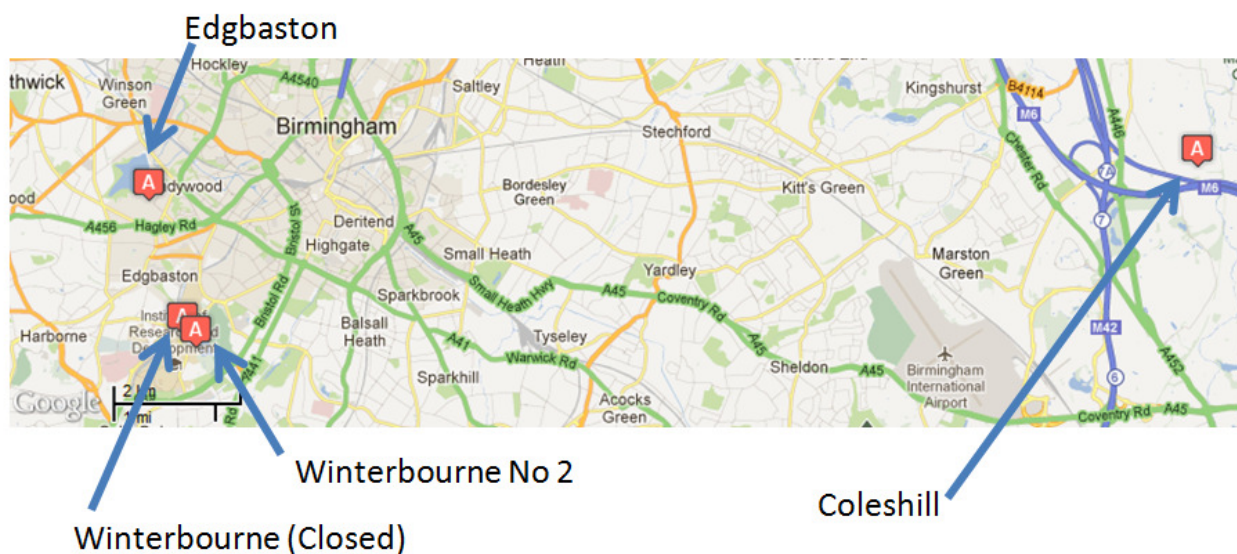
## White Paper: Notes on Impact of Birmingham Edgbaston Closure on CWV 2 Nov 2012

Birmingham Edgbaston 99028 is due to close on 1 Dec 2012. This site is used for the temperature component in the Composite Weather Variable (CWV) calculation.

It is likely that the CWV temperature calculation will switch to Winterbourne No 2 99062 about 1.5 miles away. This has been open since late November 2011 and replaces Winterbourne - University of Birmingham 99068 ("Winterbourne").

Winterbourne No 2 does not report wind so this component is expected to remain at Coleshill 03535.

The location of these sites is shown below.



Looking at hourly temperatures:

Winterbourne No 2 was on average 0.28C colder than Edgbaston for the period Dec 11-Mar 12

Winterbourne and Winterbourne No 2 tracked each other very closely in the period of operational overlap. For the period Dec 11-Mar 12 Winterbourn2 was on average 0.01 warmer.

Using Winterbourne for full winter season comparisons:

Winterbourne was on average 0.30C colder than Edgbaston for the period Nov 11-Mar 12

Winterbourne was on average 0.28C colder than Edgbaston for the period Nov 11-Mar 12

Looking at extreme months:

Winterbourne was on average 0.44C colder than Edgbaston for the cold month of Dec 2010

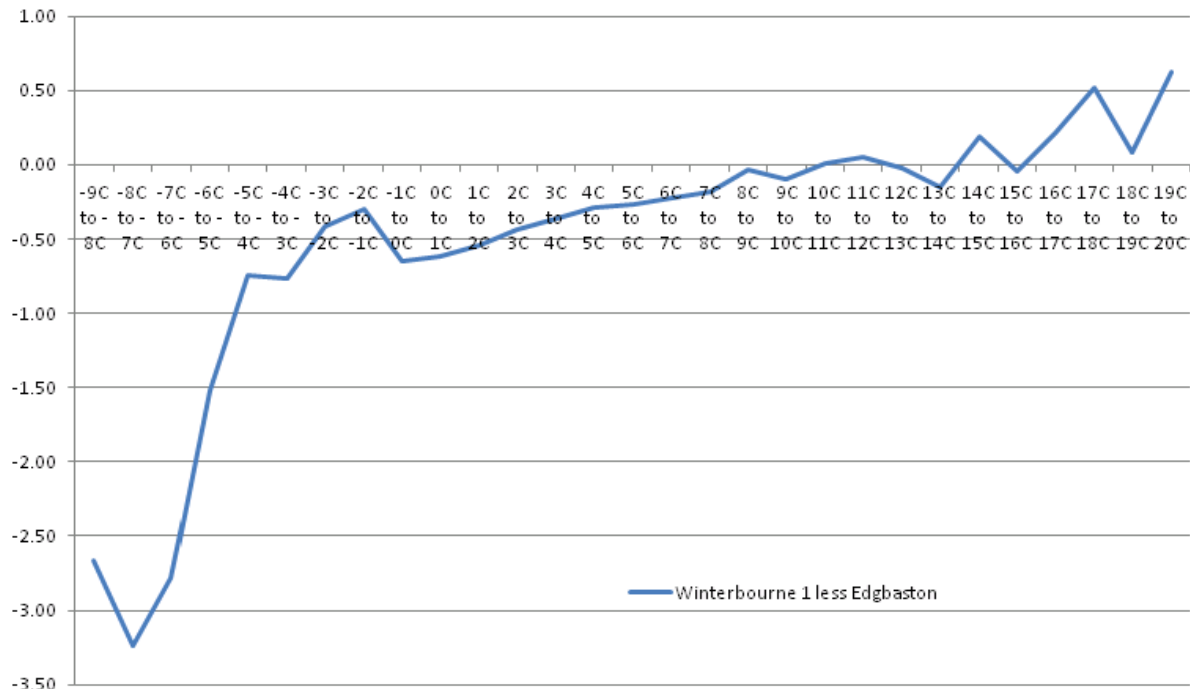
Winterbourne was on average 0.04C colder than Edgbaston for the warm month of Feb 2011

The table below looks at the temperature difference between Winterbourne and Edgbaston by temperature bucket:

Hourly Temperature at Edgbaston	Winterbourne 1 less Edgbaston	Sample size
-9C to -8C	-2.67	9
-8C to -7C	-3.23	9
-7C to -6C	-2.79	23
-6C to -5C	-1.52	45
-5C to -4C	-0.75	57
-4C to -3C	-0.77	100
-3C to -2C	-0.41	130
-2C to -1C	-0.30	236
-1C to 0C	-0.65	261
0C to 1C	-0.62	269
1C to 2C	-0.54	357
2C to 3C	-0.44	425
3C to 4C	-0.37	575
4C to 5C	-0.29	601
5C to 6C	-0.27	672

Hourly Temperature at Edgbaston	Winterbourne 1 less Edgbaston	Sample size
6C to 7C	-0.22	586
7C to 8C	-0.18	574
8C to 9C	-0.04	488
9C to 10C	-0.10	493
10C to 11C	0.01	354
11C to 12C	0.05	291
12C to 13C	-0.02	114
13C to 14C	-0.16	85
14C to 15C	0.19	61
15C to 16C	-0.05	34
16C to 17C	0.21	21
17C to 18C	0.52	12
18C to 19C	0.09	8
19C to 20C	0.62	4

Winterbourne less Edgbaston



## Further Information

Regarding world-wide weather data and forecasts please see [www.SpeedwellWeather.com](http://www.SpeedwellWeather.com) or contact:

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