



**Data Update for Worcester
 December 2009**

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Monthly Data Summary for December 2009

Site Description

The site is a parking lot by a baseball field within the Green Hill Park complex in Worcester. The coordinates of the site is 42.27927 N, 71.78072 W (WGS84) and shown as the white triangle in Figure 1.



Figure 1: Site location

Instrumentation

The Second Wind Triton Sodar is used at this location

Data Summary Statistics

A summary of the data with a quality of 90 or greater during the reporting period are included in the following table.

| | 40 m | 50 m | 60 m | 80 m | 100 m | 120 m | 140 m | 160 m | 180 m | 200 m |
|--------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Average | 5.57 | 6.04 | 6.47 | 7.19 | 7.62 | 7.85 | 8.29 | 8.74 | 9.22 | 9.80 |
| Std Dev | 2.40 | 2.50 | 2.53 | 2.48 | 2.34 | 2.40 | 2.43 | 2.41 | 2.47 | 2.35 |
| Max | 15.1 | 16.57 | 16.91 | 19.45 | 18.88 | 20.49 | 20.2 | 20.27 | 18.98 | 18.44 |
| Availability | 69% | 68% | 60% | 57% | 49% | 41% | 31% | 23% | 15% | 10% |

The data can be found at the Wind Energy Center web site:
<http://www.umass.edu/windenergy>

Maintenance Issues and Changes to Site Configuration

No maintenance was conducted in December.

Monthly Data Time Series

Figure 2 shows the wind speed time series at 100 m height for the month of December 2009.

