



Renewable Energy Research Laboratory

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Data Update for Harvard, Boston MA November 2008

Prepared for
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Monthly Data Summary for November 2008

Site Description

This update summarizes monthly data results for the Harvard monitoring site in Boston, MA, at $42^{\circ}22'8.36''N$, $71^{\circ}7'46.50''W$. The site is located in a drainage lagoon near the athletic fields of Harvard University, as seen in the picture below.



Tower and Sensors

Two anemometers and one wind vane are mounted at each of the two measurement heights, 50m (164ft) and 35m (115ft). More information on the sensors and site can be found at http://www.ceere.org/rerl/rerl_resourcedata.html.

Data Summary Statistics

A summary of the data during the reporting period are included in the following table. The wind shear power law exponent is based on the mean wind speeds during the measurement period. For more information on wind shear and turbulence intensity, see: <http://www.ceere.org/rerl/publications/published/communityWindFactSheets/>.

Height	Wind Speed			Prevailing Wind Direction	Wind Shear Power Law Exponent
	Mean [m/s]	Max [m/s]	Mean Turbulence Intensity at 10 m/s		
50 m	4.19	14.40	0.21	247.5, WSW	0.36
35 m	3.76	13.46	0.22	247.5, WSW	

The data can be found at the Renewable Energy Research Laboratory web site: http://www.ceere.org/rerl/rerl_resourcedata.html.

Data Recovery

All raw wind data are subjected to a series of tests and filters to identify data that are faulty or corrupted. The gross percentage of data recovered (ratio of the number of raw data points received to data points expected) and net data recovered (ratio of raw data points which passed all QA control tests to data points expected) are shown below.

Gross Data Recovered [%]	100.00
Net Data Recovered [%]	99.78

Information on the tests and filters used can be found at the Renewable Energy Research Laboratory web site: http://www.ceere.org/rerl/rerl_resourcedata.html.

Maintenance Issues and Changes to Site Configuration

No maintenance issues were encountered in the month of November 2008.

Monthly Data Time Series

Below is a graph of wind speed at the Harvard site for the month of November 2008 at a height of 50m.

