



Renewable Energy Research Laboratory

Department of Mechanical and Industrial Engineering
University of Massachusetts
160 Governor's Drive
Amherst, MA 01003-9265

Phone: 413-545-4359
Fax: 413-577-1301
www.ceere.org/rerl
rerl@ecs.umass.edu



Data Update for Paxton, MA May, 2007

Prepared for
Massachusetts Technology Collaborative, 75 North Drive, Westborough, MA 01581
By Kai Wu

Monthly Data Summary for May 2007

This update summarizes the monthly data results for the Paxton MA monitoring site at 42-18-11.6 N, 71-53-50.9 W (WSG84). More information on the sensors and site can be found at http://www.ceere.org/rerl/rerl_resourcedata.html.

| Height | Wind Speed | | | Wind Direction |
|--------|------------|-----------|----------------------|----------------------|
| | Mean [m/s] | Max [m/s] | Turbulence Intensity | Prevailing Direction |
| 78m | 7.48 | 17.14 | 0.09 | 270, W |

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 [%] | 79.71 |

Maintenance Issues and Changes to Site Configuration

The temperature sensor is not operational in May 2007.

Monthly Data Time Series

Seen below is a graph of wind speed at Paxton for the month of May 2007, at the highest height anemometer.

