

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 Mt. Tom, Holyoke, MA June 2005

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

By Melissa Ray

Monthly Data Summary for June 2005

This update summarizes the monthly data results for the Mt. Tom monitoring site in Holyoke, MA, at 42° 14′ 59.2" N, 72° 38′ 42.2" W (NAD 27). More information on the sensors and site can be found at http://www.ceere.org/rerl/rerl resourcedata.html.

	Wind Speed			Prevailing
Height	Mean [m/s]	Max [m/s]	Turbulence Intensity	Wind Direction
24 m	3.7	13.3	0.28	180, South
37 m	4.3	16.0	0.24	180, South

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 [%]	99.57

Maintenance Issues and Changes to Site Configuration

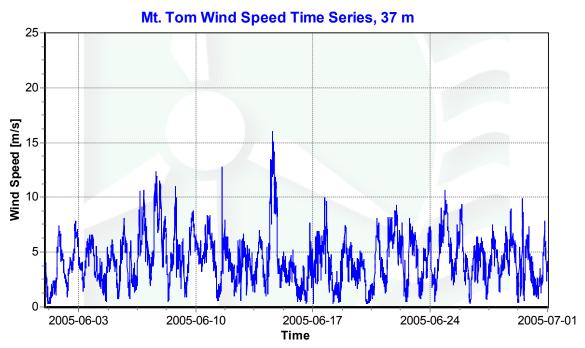
The following maintenance/equipment problems occurred during June 2005, and the following corrective action was taken:

• For several weeks, the data transmission was not successful when the logger cell phone made its weekly call to the RERL. On June 8, 2005, the cell phone antenna was repositioned 90° to the east in order to improve data transmission.

The data successfully downloaded on June 15, 2005. However, attempts to download the data during the remainder of June were unsuccessful. A manual download on July 7, 2005, retrieved the data used in this report.

Monthly Data Time Series

Seen below is a graph of wind speed at Mt. Tom for the month of June 2005, at the highest anemometer height of 37 m.



Plot by DQMS3 - dqms@dqms.com