

# Wind Resource Summary for Meeker, CO

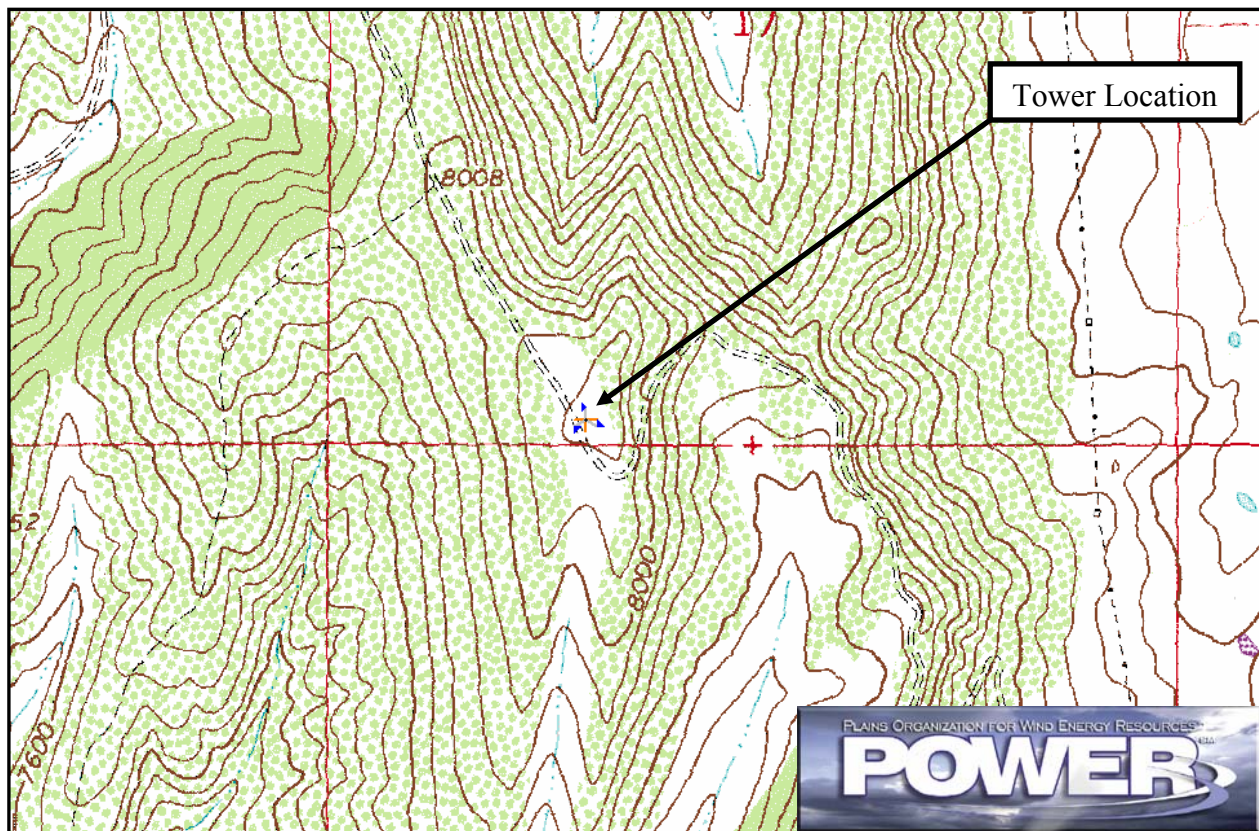
Colorado Anemometer Loan Program

Monitoring Period:<sup>a</sup> 6/25/2003 – 9/28/2004

## Site Description:

Latitude: N 39° 46' 54"	Township: 3 S
Longitude: W 107° 58' 14"	Range: 94 W
Elevation: 8,085 feet	Section: 17
Tower Type: NRG Tilt-Up	Tower Height: 66 feet

The site is 3.3 miles north of the town of Rio Blanco and 18 miles southwest of Meeker. The tower is located near the highest point of a ridge that runs north and south. The vegetation is predominately natural grasses and sage brush. Overall, the site has good exposure to the wind in all directions.



<b>Summary Wind Data:</b>	<b>66 ft AGL<sup>b</sup></b>
<b>Mean Wind Speed</b>	11.7 mph
<b>Maximum, 10-min Mean Wind Speed</b>	52.3 mph – 6/14/2004 9:10 pm
<b>Estimated Wind Power Class<sup>c</sup></b>	Class 2 (145 W/m <sup>2</sup> )

<sup>a</sup> Data recovery rate at 66 feet was 86%.

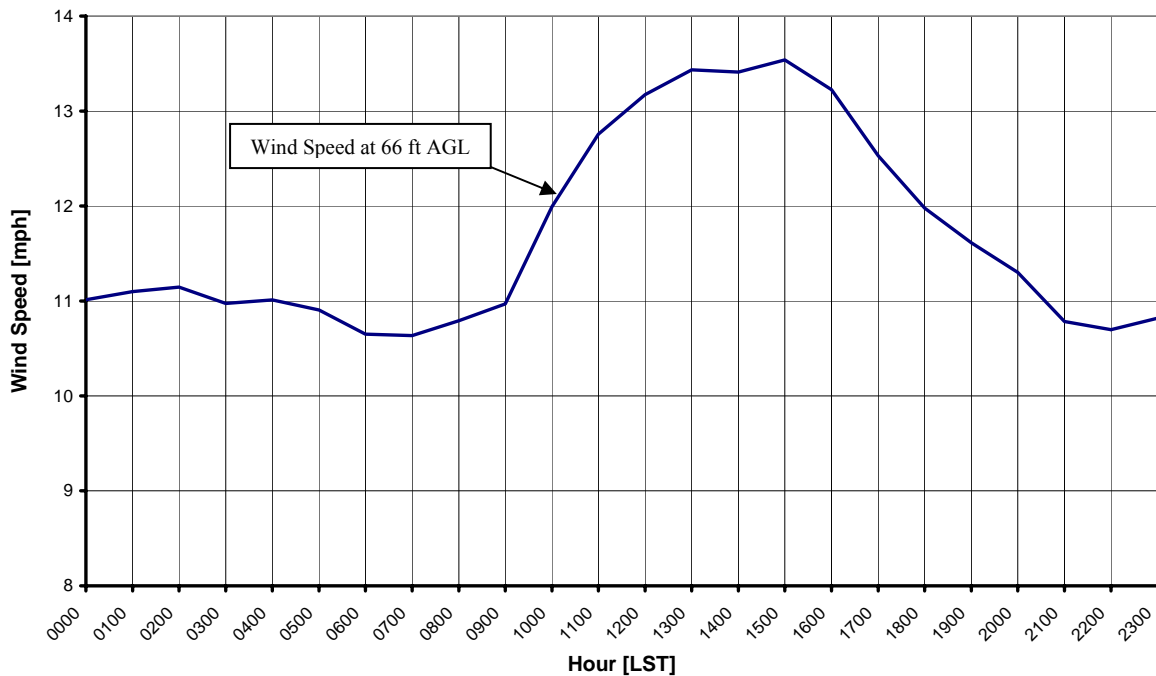
<sup>b</sup> Above ground level.

<sup>c</sup> Air temperature was not factored into calculation.

## Average Hourly Wind Speeds

LST <sup>d</sup>	66 ft AGL	
	mph	m/s
0000	11.0	4.92
0100	11.1	4.96
0200	11.1	4.98
0300	11.0	4.91
0400	11.0	4.92
0500	10.9	4.88
0600	10.7	4.76
0700	10.6	4.75
0800	10.8	4.82
0900	11.0	4.90
1000	12.0	5.36
1100	12.8	5.70
1200	13.2	5.89
1300	13.4	6.01
1400	13.4	5.99
1500	13.5	6.05
1600	13.2	5.91
1700	12.5	5.60
1800	12.0	5.36
1900	11.6	5.19
2000	11.3	5.05
2100	10.8	4.82
2200	10.7	4.78
2300	10.8	4.84

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<sup>d</sup> Local standard time.



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## Wind Direction Frequency

The wind direction sensor was not functioning correctly during this period.



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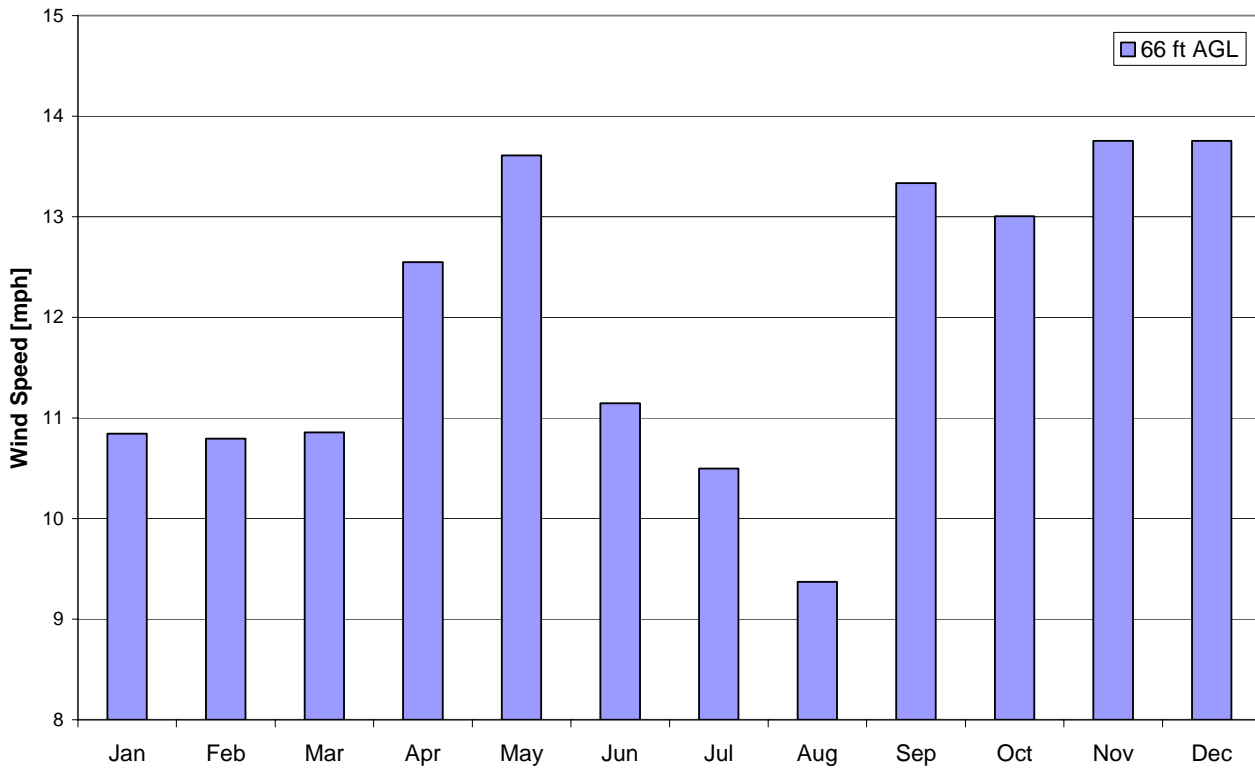
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## Monthly Wind Speed Averages

**66 ft AGL**

Month	mph	m/s
Jan	10.8	4.85
Feb	10.8	4.83
Mar	10.9	4.85
Apr	12.5	5.61
May	13.6	6.08
Jun	11.1	4.98
Jul	10.5	4.69
Aug	9.4	4.19
Sep	13.3	5.96
Oct	13.0	5.81
Nov	13.8	6.15
Dec	13.8	6.15

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