

Wind Resource Summary for Paonia Site

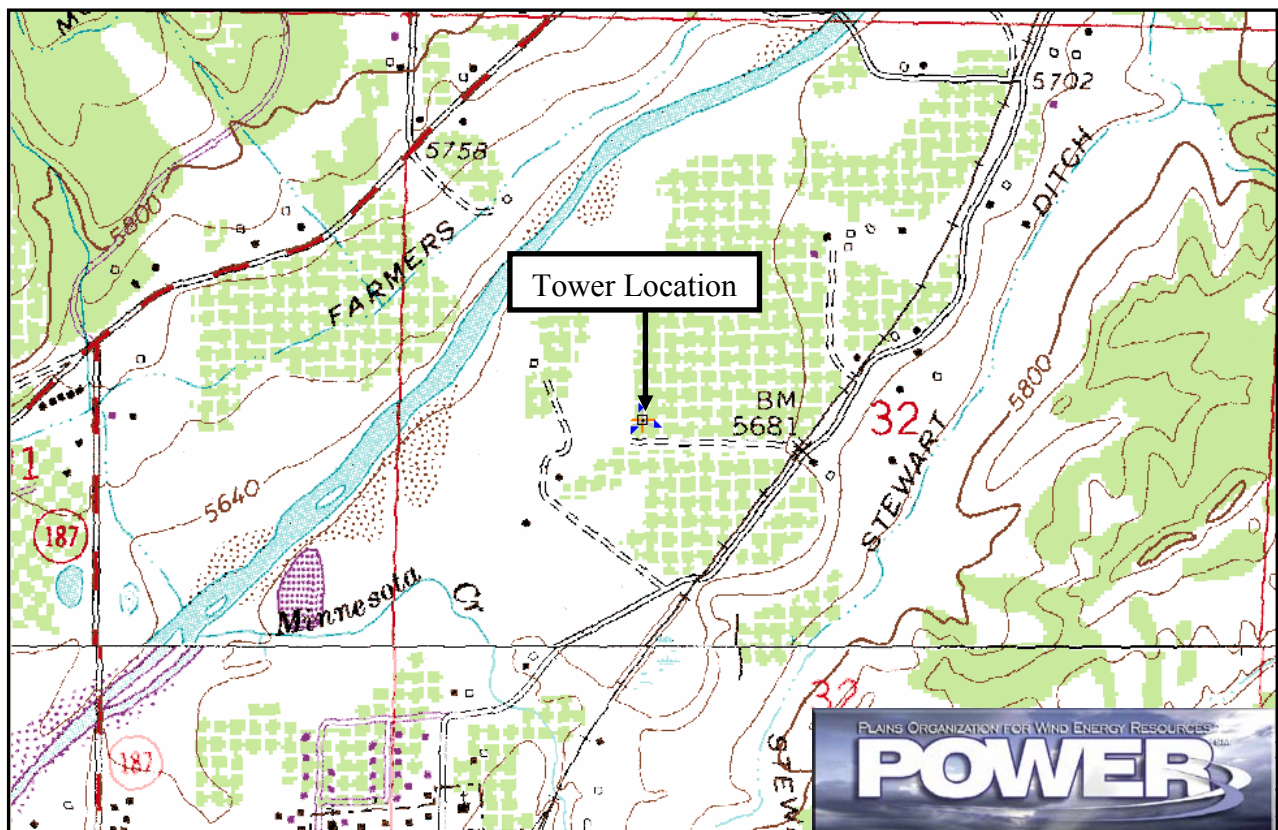
Colorado Anemometer Loan Program

Monitoring Period:^a 8/6/2004 – 8/10/2005

Site Description:

Latitude: N 38° 52' 44"	Township: 13 S
Longitude: W 107° 35' 10"	Range: 91 W
Elevation: 5705 feet	Section: 32
Tower Type: Tilt-Up	Tower Height: 98 feet

The site is approximately 3/4 mile north of the town of Paonia, Colorado. The tower is located next to a campground. The sensors are mounted approximately 30 feet below the top of the tower. A small wind turbine is installed at the top of the tower. Trees and buildings surround the site.



Summary Wind Data:	66 ft AGL^b
Mean Wind Speed	9.7 mph
Maximum, 10-min Mean Wind Speed	33.2 mph – 4/8/2005 11:30 a.m.
Estimated Wind Power Class^c	Class 1 (84 W/m ²)

^a Data recovery rate was 99%.

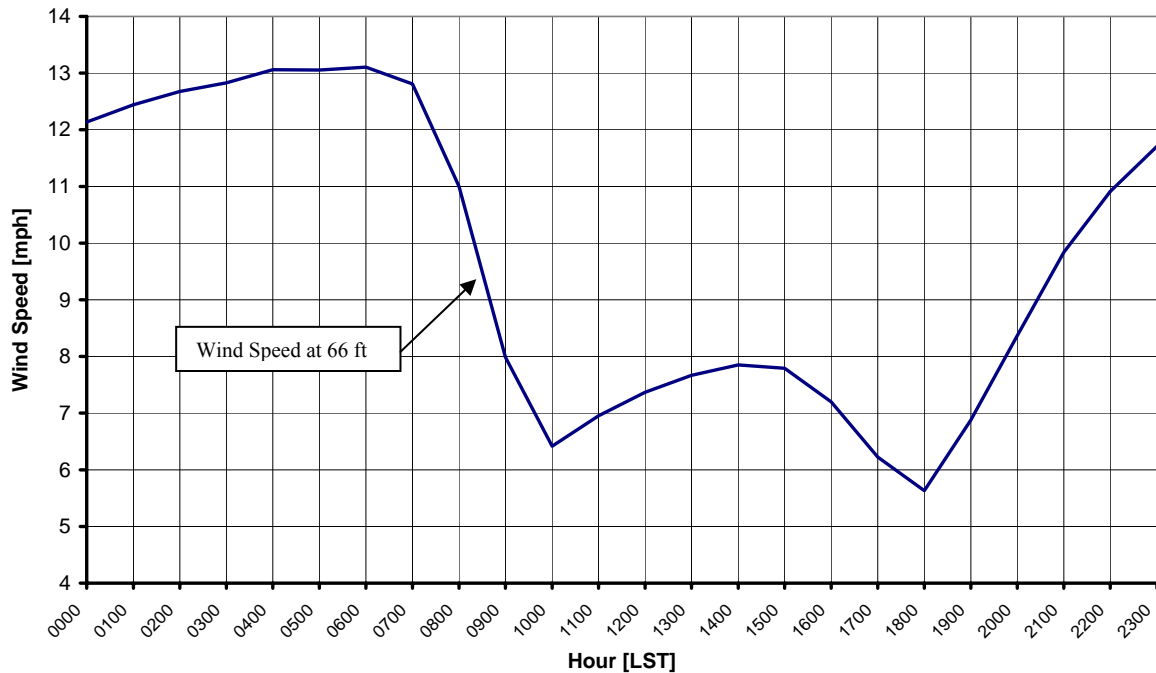
^b Above ground level.

^c Air temperature was not factored into calculation.

Average Hourly Wind Speeds

LST ^d	66 ft AGL	
	mph	m/s
0000	12.1	5.42
0100	12.4	5.56
0200	12.7	5.67
0300	12.8	5.73
0400	13.1	5.84
0500	13.1	5.84
0600	13.1	5.86
0700	12.8	5.73
0800	11.0	4.92
0900	8.0	3.57
1000	6.4	2.87
1100	7.0	3.11
1200	7.4	3.29
1300	7.7	3.43
1400	7.8	3.51
1500	7.8	3.48
1600	7.2	3.22
1700	6.2	2.78
1800	5.6	2.52
1900	6.9	3.07
2000	8.4	3.74
2100	9.8	4.40
2200	10.9	4.88
2300	11.7	5.23

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^d Local standard time.



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701-777-5000 or bstevens@undeerc.org

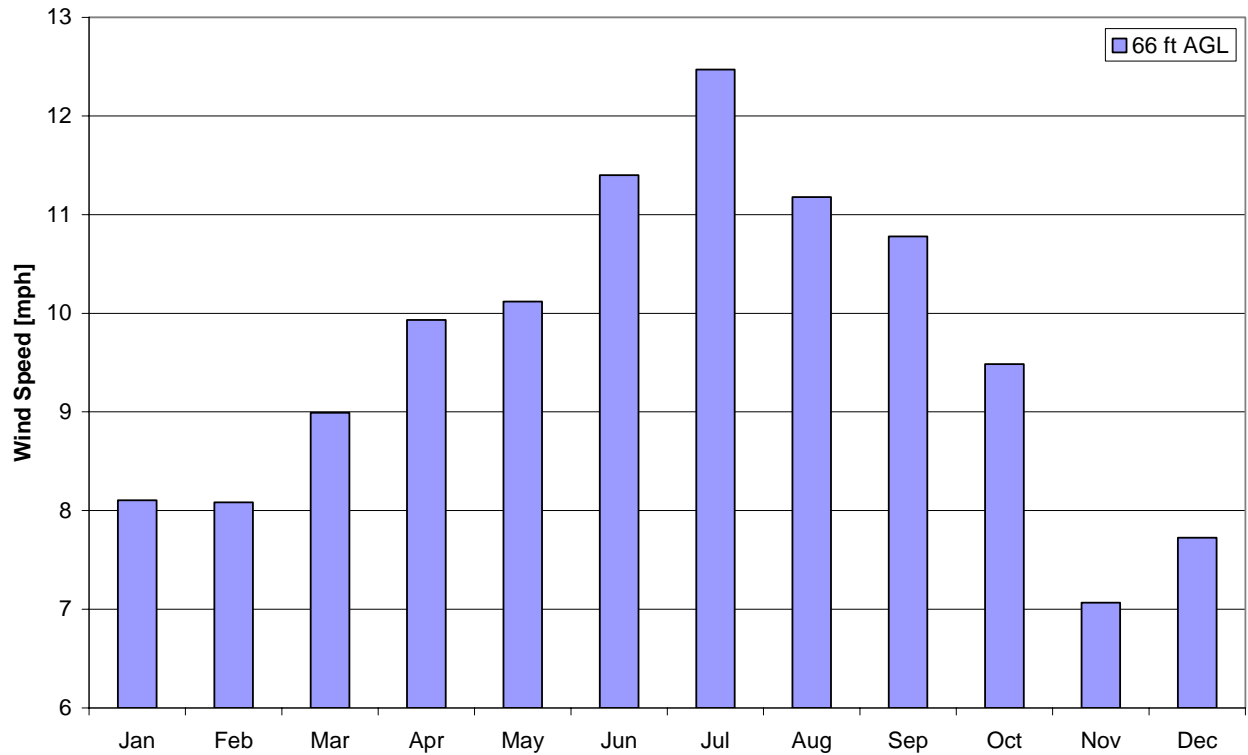
Creation Date: 8/18/2005

Monthly Wind Speed Averages

66 ft AGL

Month	mph	m/s
Jan	8.1	3.62
Feb	8.1	3.61
Mar	9.0	4.02
Apr	9.9	4.44
May	10.1	4.52
Jun	11.4	5.10
Jul	12.5	5.57
Aug	11.2	5.00
Sep	10.8	4.82
Oct	9.5	4.24
Nov	7.1	3.16
Dec	7.7	3.45

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