

Wind Resource Summary for Aurora, CO

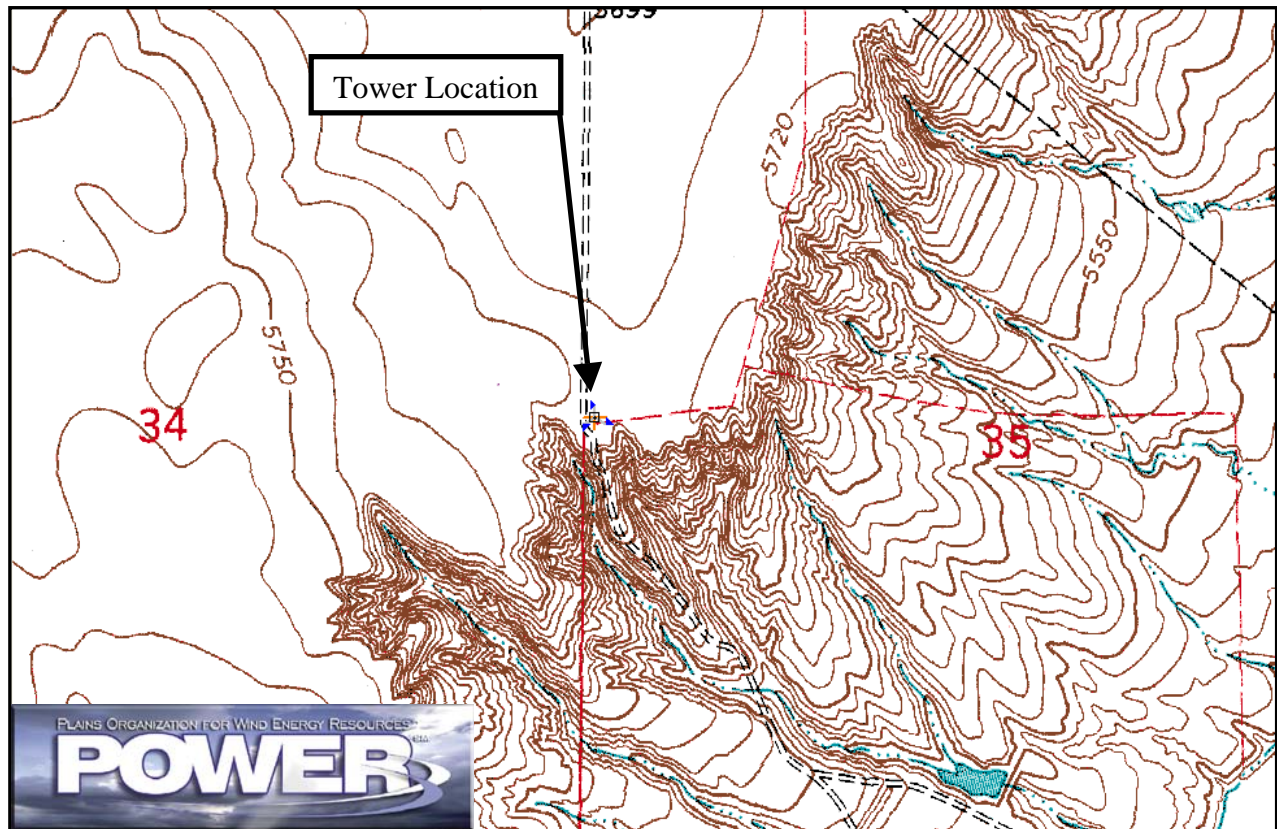
Colorado Anemometer Loan Program

Monitoring Period: 04/09/2003 – 06/28/2004

Site Description:

Latitude: N 39° 34' 19"	Township: 5 S
Longitude: W 104° 18' 21"	Range: 62 W
Elevation: 5,715 feet	Section: 35
Tower Type: NRG Tilt-Up	Tower Height: 66 feet

The site is approximately 10.4 miles southwest of the town of Byers and I-70. The tower is located in a cultivated field next to bluffs along the West Bijou Creek. Tall vegetation and/or buildings are not present in the area. Hence, the site has good exposure to the wind in all directions. The bluffs could create significant amounts of turbulence in the wind, which could affect measurements of easterly or southerly winds at the site.



Summary Wind Data:	66-ft AGL ^a
Mean Wind Speed	12.6 mph
Maximum, 10-min Mean Wind Speed	59.3 mph – 4/15/2003 10:30 pm
Estimated Wind Power Class ^b	Class 2 (178 W/m ²)

^a Above ground level.

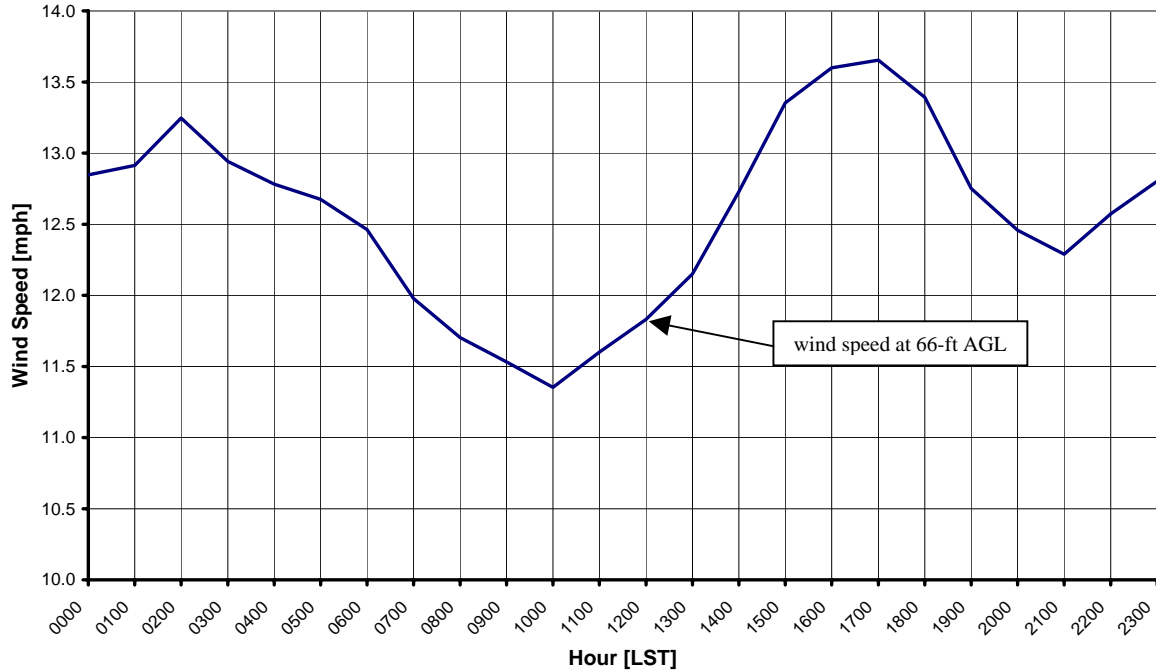
^b Air temperature is not factored into calculation.

Average Hourly Wind Speeds

66-ft AGL

LST	mph	m/s
0000	12.8	5.74
0100	12.9	5.77
0200	13.2	5.92
0300	12.9	5.79
0400	12.8	5.71
0500	12.7	5.67
0600	12.5	5.57
0700	12.0	5.35
0800	11.7	5.23
0900	11.5	5.15
1000	11.4	5.08
1100	11.6	5.19
1200	11.8	5.29
1300	12.2	5.43
1400	12.7	5.69
1500	13.4	5.97
1600	13.6	6.08
1700	13.7	6.10
1800	13.4	5.99
1900	12.8	5.70
2000	12.5	5.57
2100	12.3	5.49
2200	12.6	5.62
2300	12.8	5.72

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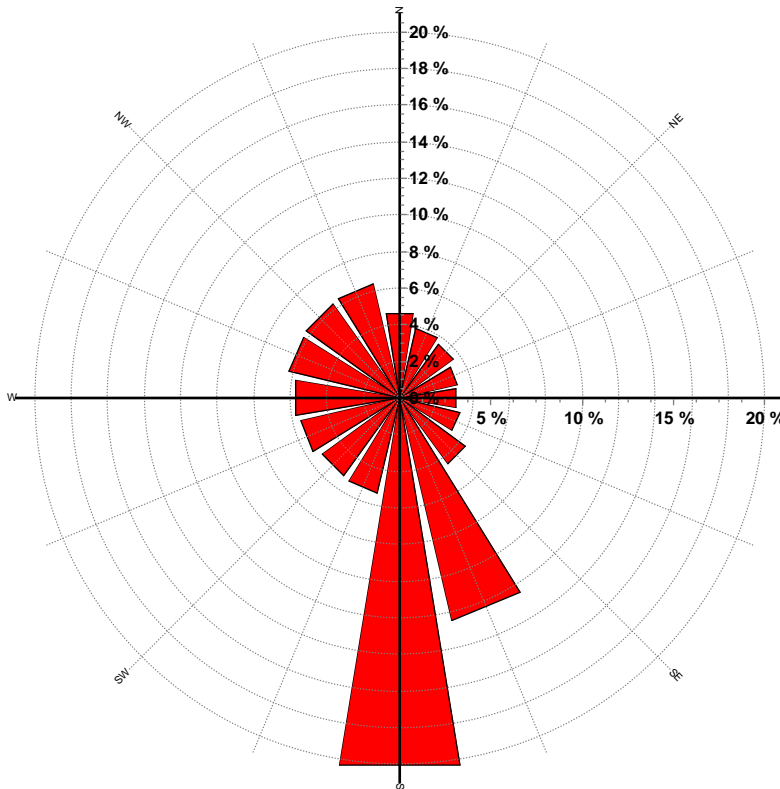
Creation Date: 7/14/2004

Wind Directional Frequency

Winds from the... Frequency (%)

NNW	6.4
NW	6.3
WNW	6.2
W	5.8
WSW	5.6
SW	5.3
SSW	5.4
S	20.3
SSE	12.5
SE	4.5
ESE	3.4
E	3.1
ENE	3.2
NE	3.7
NNE	3.9
N	4.6

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Wind Rose for 66-ft AGL
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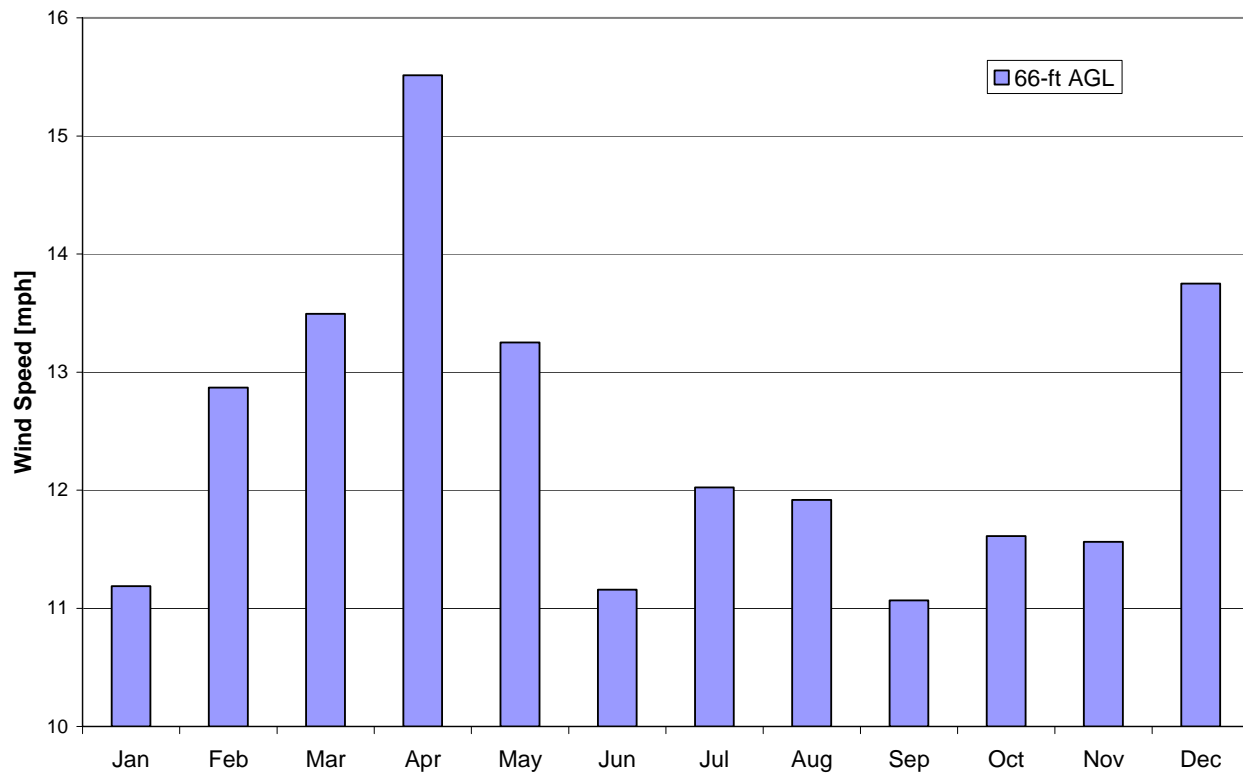
Monthly Wind Speed Averages

66-ft AGL

Month	mph	m/s
Jan	11.2	5.00
Feb	12.9	5.75
Mar	13.5	6.03
Apr	15.5	6.94
May	13.3	5.92
Jun	11.2	4.99
Jul	12.0	5.37
Aug	11.9	5.33
Sep	11.1	4.95
Oct	11.6	5.19
Nov	11.6	5.17
Dec	13.7	6.15

* Data Recovery Rate (DRR) = 99%

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