

Wind Resource Summary for Villa Grove Site

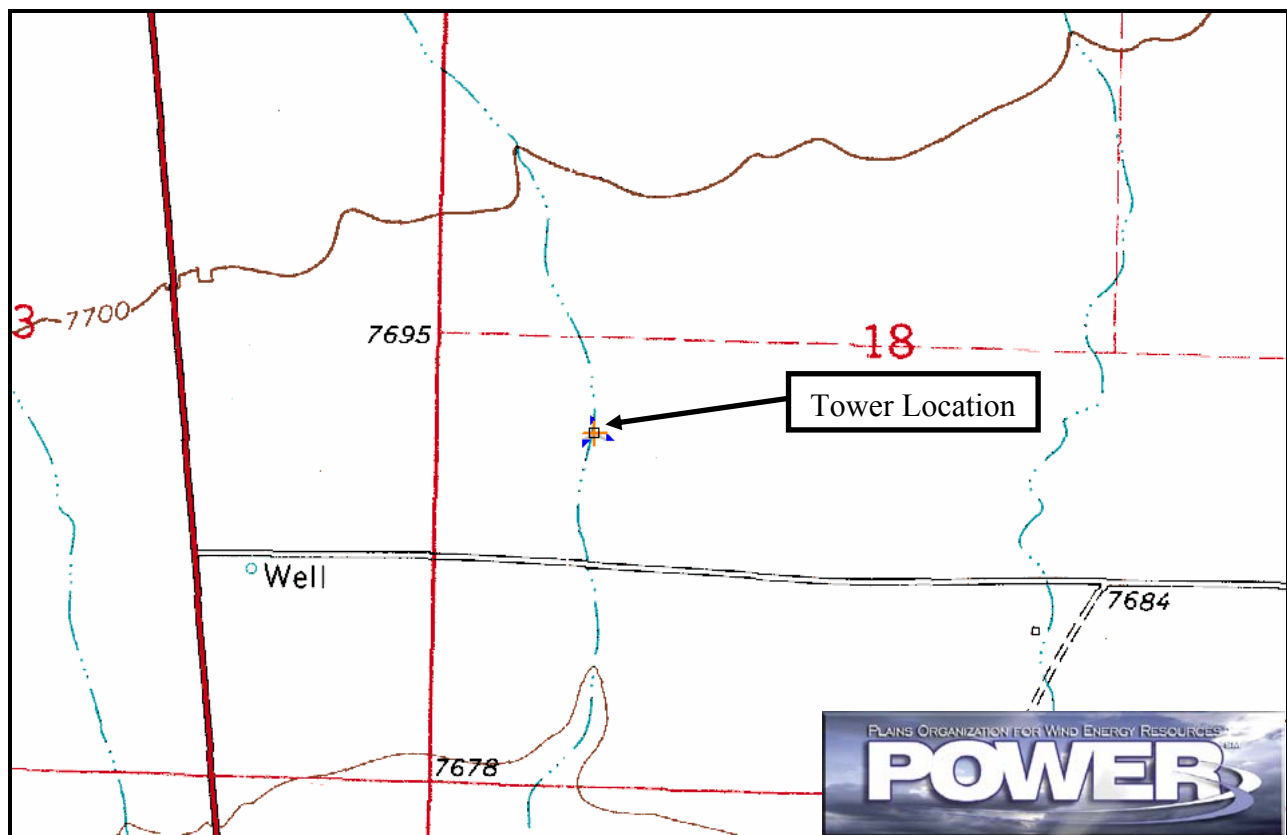
Colorado Anemometer Loan Program

Monitoring Period^a: 7/26/2006 – 10/18/2006

Site Description:

Latitude: N 38° 9'	Township: 45 N
Longitude: W 105° 55'	Range: 10 E
Elevation: 7692 feet	Section: 18
Tower Type: NRG Tilt-Up	Tower Height: 66 feet

The site is located in the San Luis Valley between two mountain ranges about seven miles south of the town of Villa Grove, Colorado. The tower was placed on some pasture land about a half mile east of State Highway 17. Although the tower is on pasture land, crop circles surround the area except to the west. The exposure to the wind is good especially along the axis of the valley which runs north to south.



Summary Wind Data	66 ft AGL ^b
Mean Wind Speed	8.0 mph
Maximum, 10-min Mean Wind Speed	45.1 mph – 10/3/2006 2:40 p.m.
Estimated Wind Power Class ^c	Class 1 (57 W/m ²)

^a Data recovery rate was 99%.

^b Above ground level.

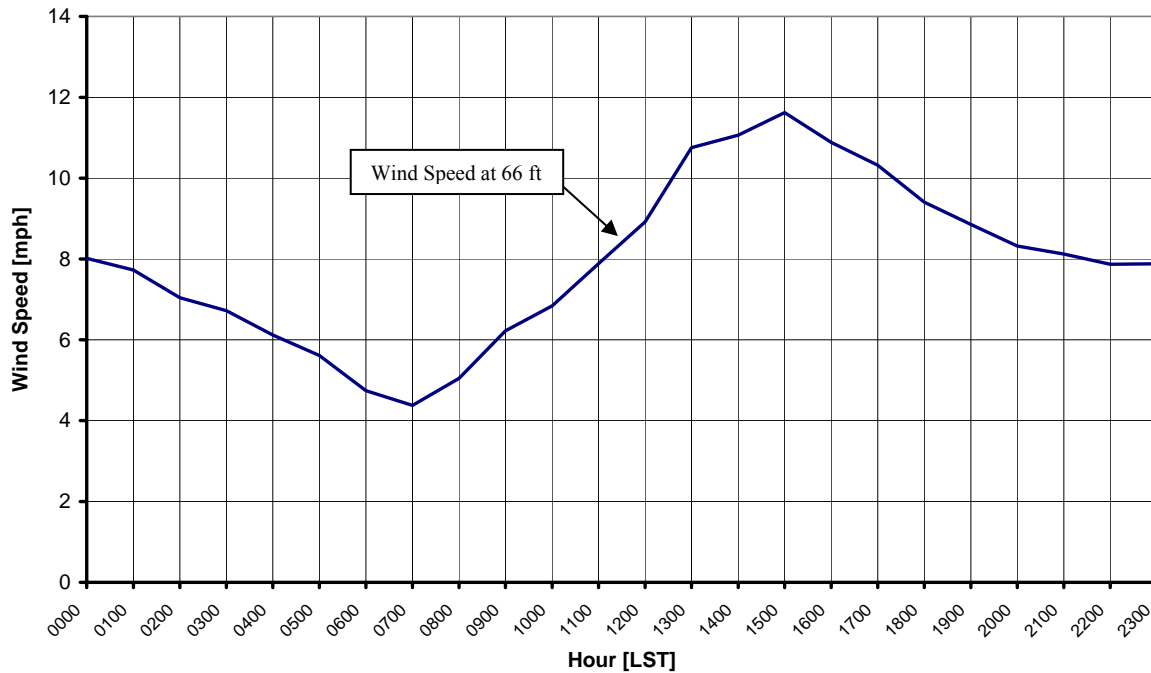
^c Air temperature was not factored into calculation.

Average Hourly Wind Speeds

66 ft AGL

LST ^d	mph	m/s
0000	8.0	3.58
0100	7.7	3.45
0200	7.0	3.15
0300	6.7	3.00
0400	6.1	2.73
0500	5.6	2.51
0600	4.7	2.12
0700	4.4	1.96
0800	5.0	2.26
0900	6.2	2.78
1000	6.8	3.06
1100	7.9	3.52
1200	8.9	3.99
1300	10.8	4.81
1400	11.1	4.94
1500	11.6	5.19
1600	10.9	4.87
1700	10.3	4.61
1800	9.4	4.20
1900	8.9	3.96
2000	8.3	3.72
2100	8.1	3.63
2200	7.9	3.52
2300	7.9	3.52

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7/26/2006 – 10/18/2006**



^d Local standard time.



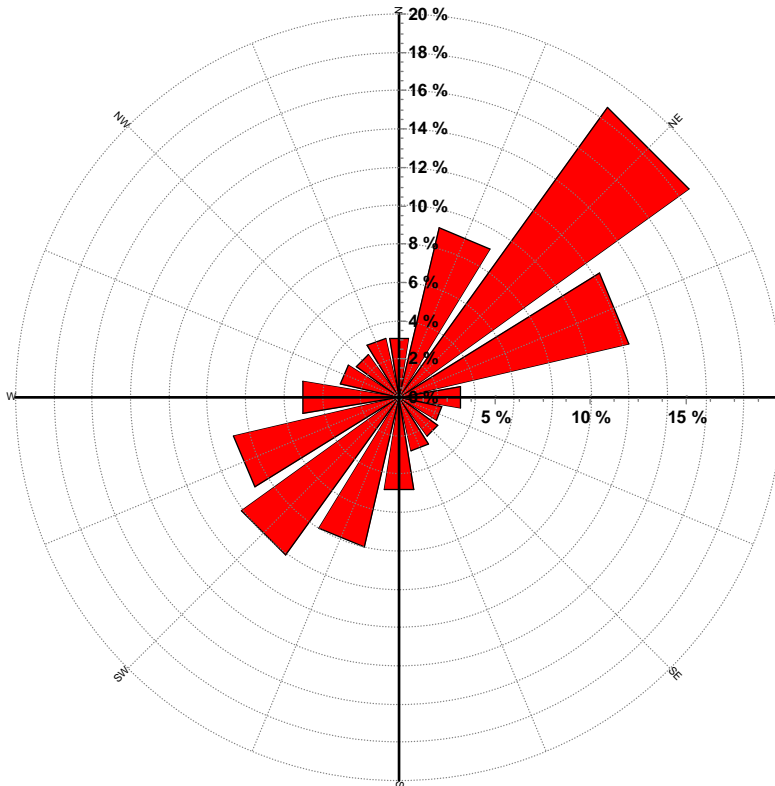
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Creation Date: 11/1/2006

Wind Directional Frequency

Winds from the...	Frequency (%)
NNW	3.2
NW	2.8
WNW	3.1
W	5.1
WSW	8.9
SW	10.1
SSW	8.0
S	4.9
SSE	2.9
SE	2.5
ESE	2.3
E	3.3
ENE	12.3
NE	18.6
NNE	9.1
N	3.1

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 Wind Rose for 66 ft AGL
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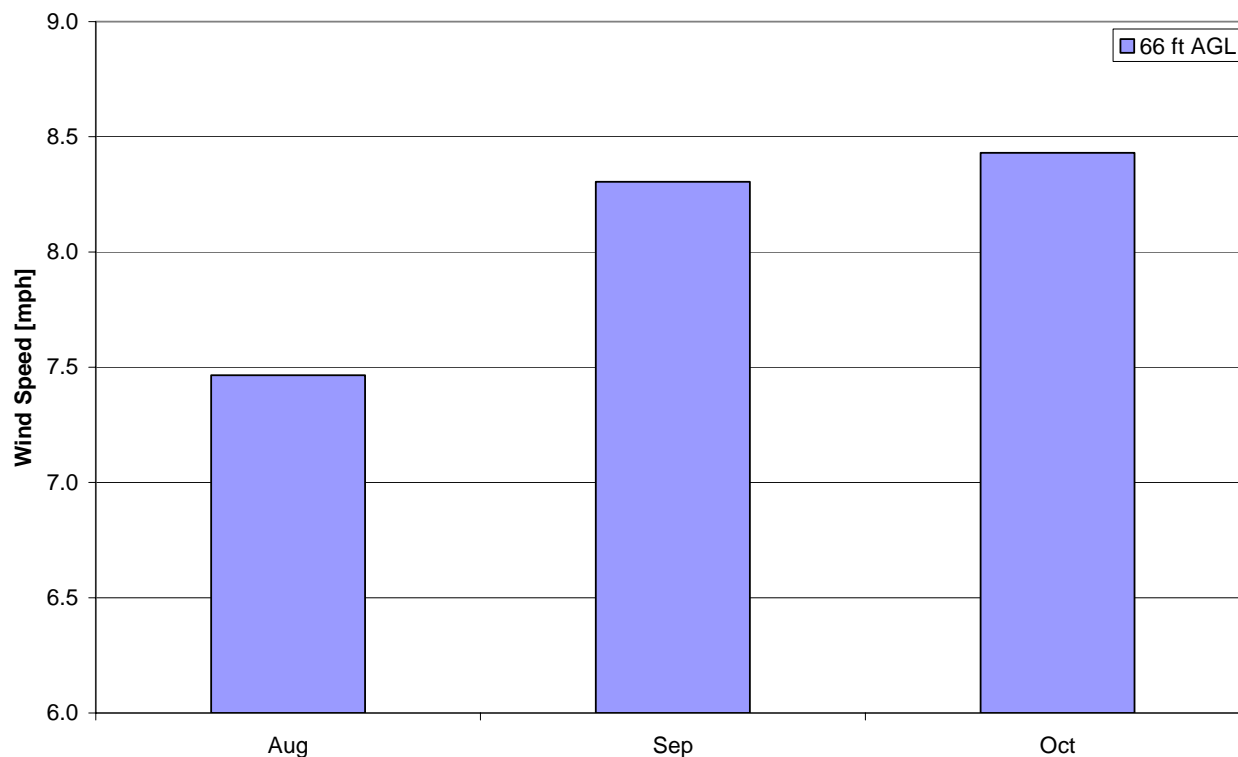
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Monthly Wind Speed Averages

66 ft AGL

Month	mph	m/s
Aug	7.5	3.34
Sep	8.3	3.71
Oct	8.4	3.77

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