

Wind Resource Summary for Julesburg, CO

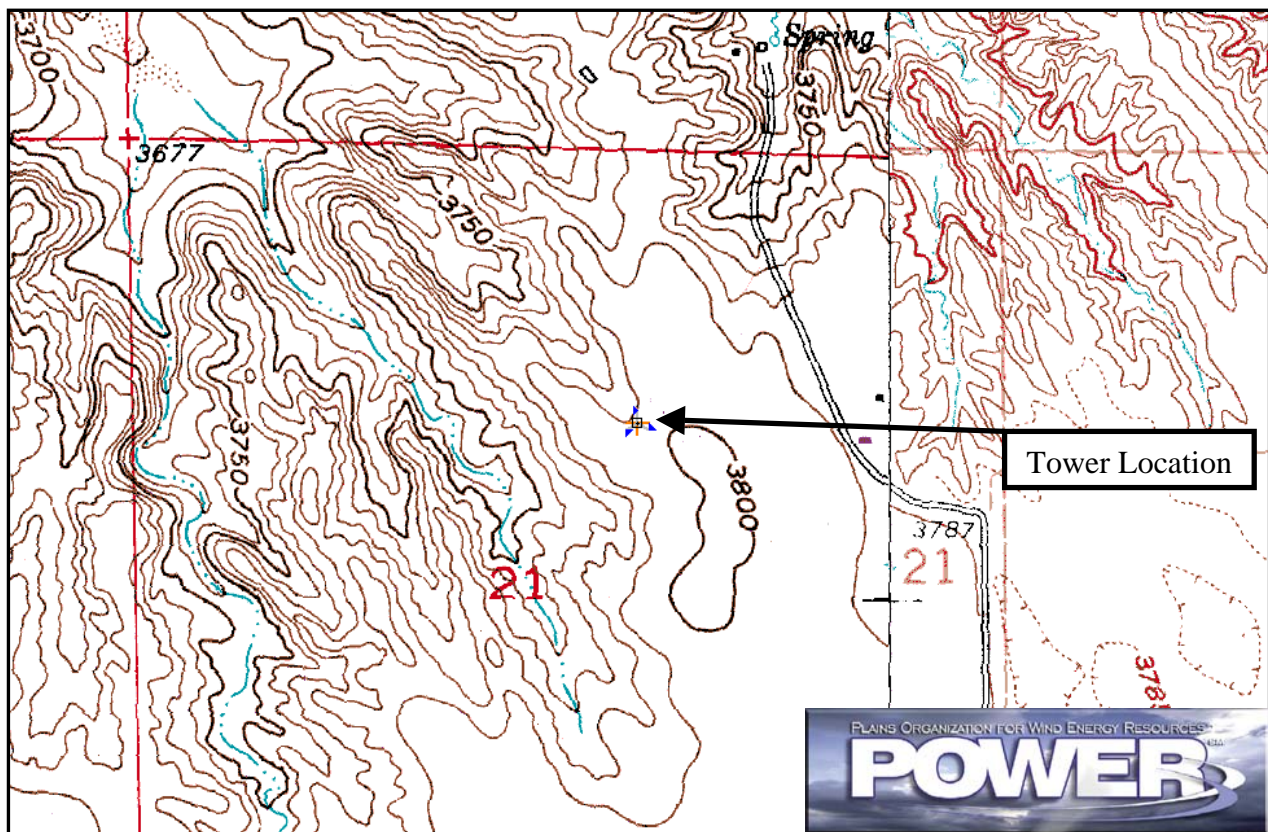
Colorado Anemometer Loan Program

Monitoring Period: 04/21/2003 – 7/9/2004

Site Description:

Latitude: N 40° 55' 11"	Township: 11 N
Longitude: W 102° 15' 23"	Range: 44 W
Elevation: 3,790 feet	Section: 21
Tower Type: NRG Tilt-Up	Tower Height: 66 feet

The site is 4.8 miles southeast of the town of Julesburg and 2.2 miles southeast of I-76. The tower is located in a pasture that is situated on a plateau above the South Platte River. The vegetation around the area is predominately grass. A rural residence with a shelter belt of trees is located a quarter of a mile to the east. Overall, the site has good exposure to the wind.



Summary Wind Data:	66-ft AGL ^a
Mean Wind Speed	14.7 mph
Maximum, 10-min Mean Wind Speed	57.6 mph – 7/7/2003 9:10 pm
Estimated Wind Power Class ^b	Class 3 (259 W/m ²)

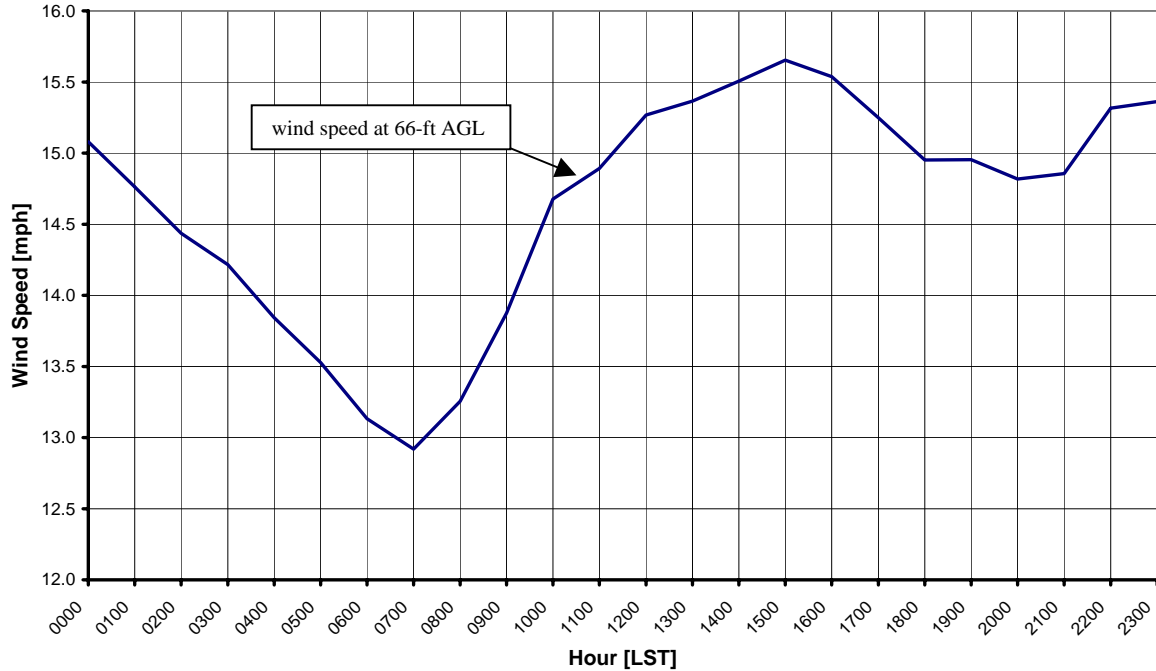
^a Above ground level.

^b Air temperature is not factored into calculation.

Average Hourly Wind Speeds

	66-ft AGL	
LST ^c	mph	m/s
0000	15.1	6.74
0100	14.8	6.60
0200	14.4	6.45
0300	14.2	6.36
0400	13.8	6.19
0500	13.5	6.05
0600	13.1	5.87
0700	12.9	5.78
0800	13.3	5.93
0900	13.9	6.20
1000	14.7	6.56
1100	14.9	6.66
1200	15.3	6.83
1300	15.4	6.87
1400	15.5	6.93
1500	15.7	7.00
1600	15.5	6.95
1700	15.2	6.82
1800	15.0	6.68
1900	15.0	6.69
2000	14.8	6.62
2100	14.9	6.64
2200	15.3	6.85
2300	15.4	6.87

Colorado Anemometer Loan Program - Julesburg Site
4/21/2003 - 7/9/2004



^c Local Standard Time



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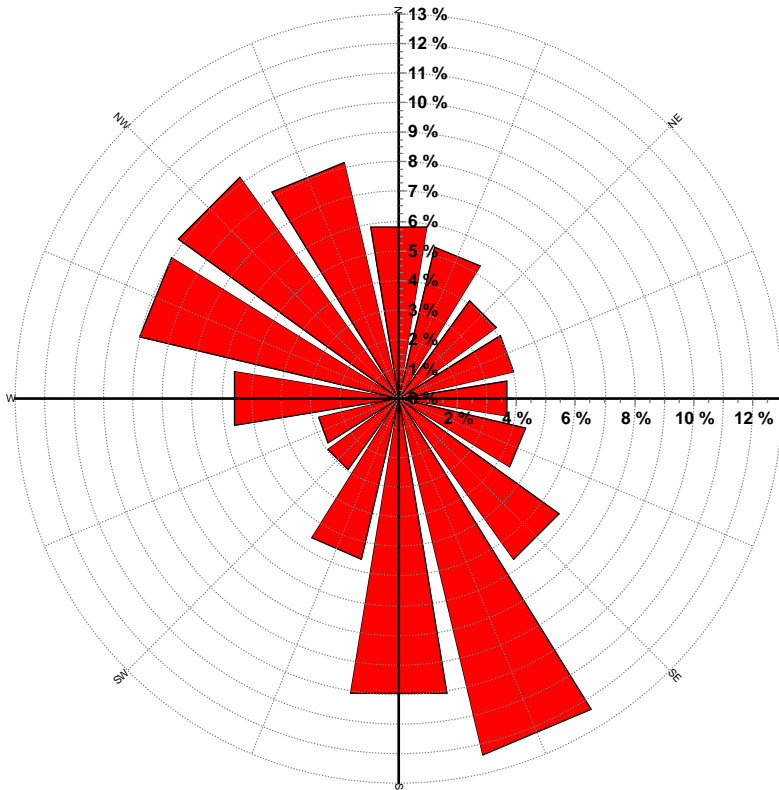
Creation Date: 07/19/2004

Wind Directional Frequency

Winds from the... Frequency (%)

NNW	8.2
NW	9.2
WNW	9.0
W	5.6
WSW	2.8
SW	3.0
SSW	5.6
S	10.1
SSE	12.4
SE	6.7
ESE	4.4
E	3.7
ENE	4.0
NE	4.1
NNE	5.3
N	5.9

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Wind Rose for 66-ft AGL
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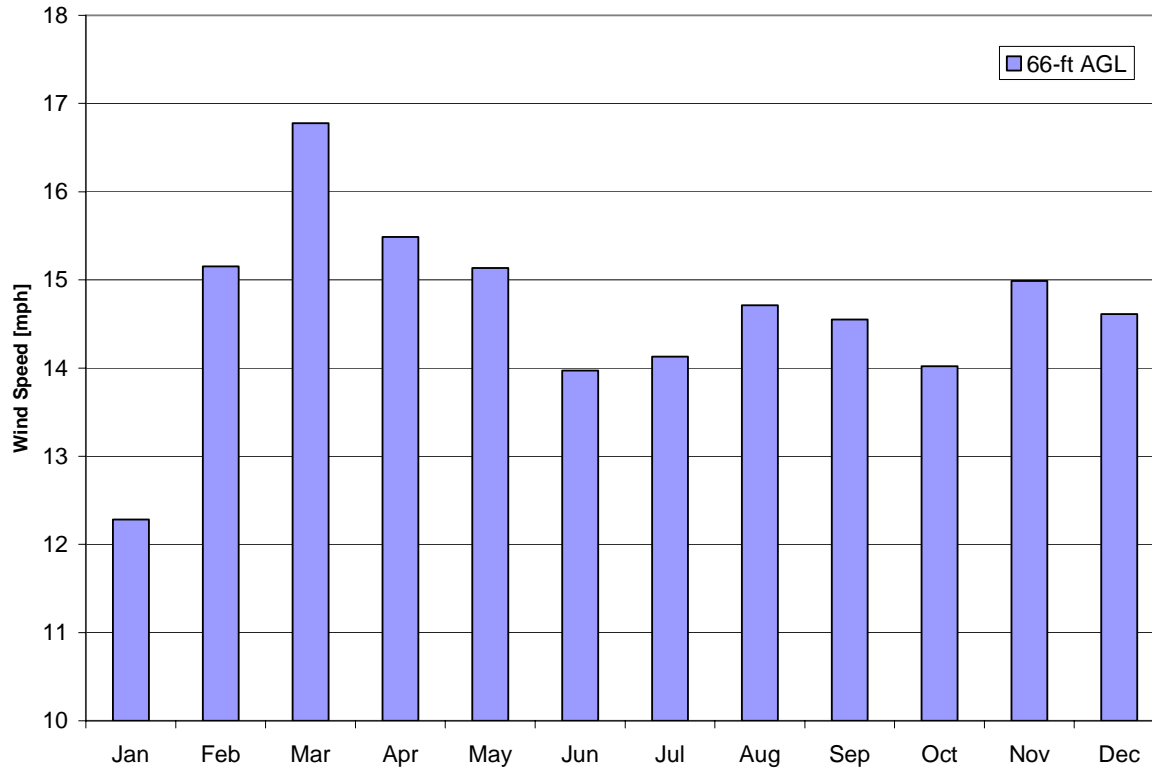
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Monthly Wind Speed Averages

66-ft AGL

Month	mph	m/s
Jan	12.3	5.49
Feb	15.2	6.77
Mar	16.8	7.50
Apr	15.5	6.92
May	15.1	6.77
Jun	14.0	6.25
Jul	14.1	6.32
Aug	14.7	6.58
Sep	14.6	6.51
Oct	14.0	6.27
Nov	15.0	6.70
Dec	14.6	6.53

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