

Wind Resource Summary for Leadville, CO

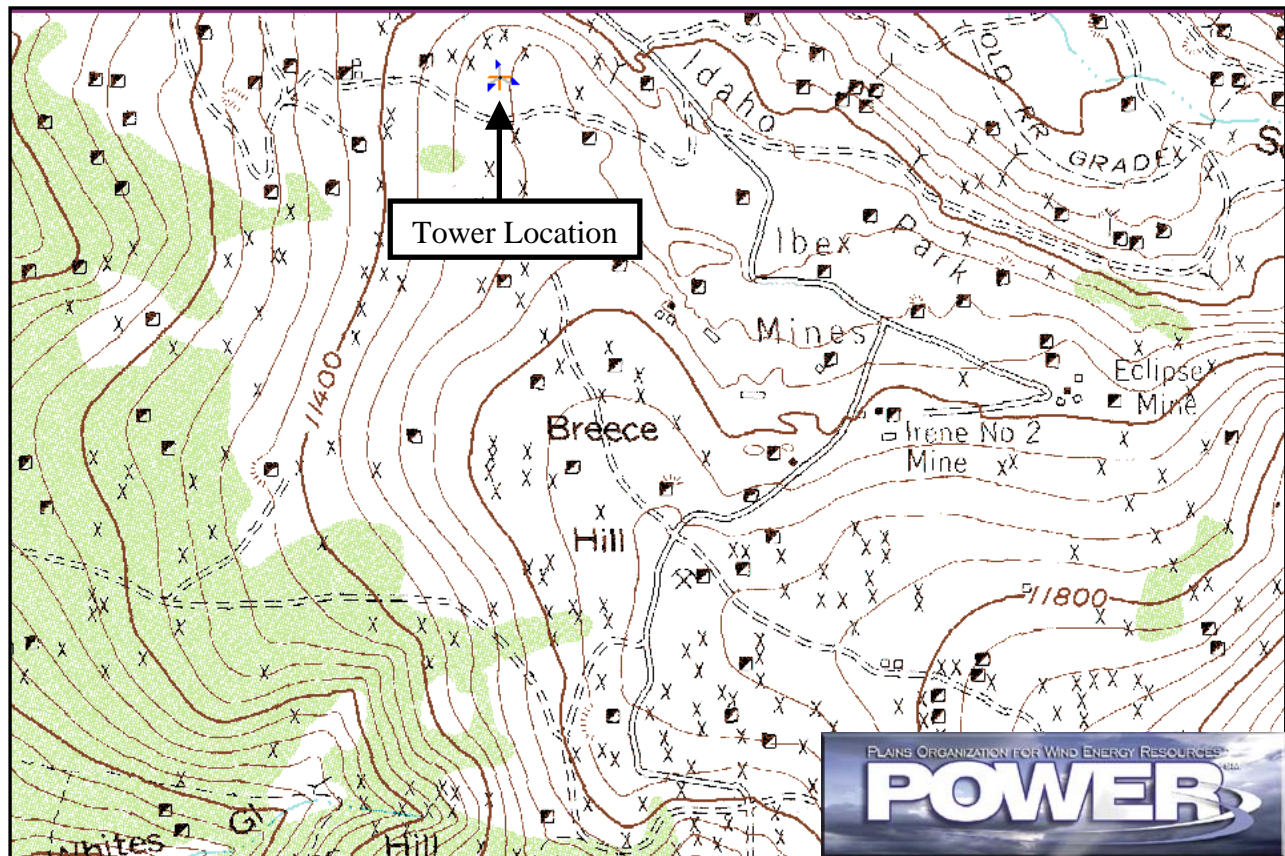
Colorado Anemometer Loan Program

Monitoring Period^a: 07/01/2003 – 07/24/2004

Site Description:

Latitude: N 39° 14' 56"	Township: 9 S
Longitude: W 106° 14' 21"	Range: 79 W
Elevation: 11,570 feet	Section: 20
Tower Type: NRG Tilt-Up	Tower Height: 66 feet

The site is approximately 2.5 miles east of Leadville and 0.5 miles south of Evans Gulch. The tower is located on a ridge that rises to the south-southeast. Evergreen trees sparsely populate the ridge and range in height from 10 to 20 feet tall. The site has good exposure to the wind in all directions except to the south and southeast, which is fair.



Summary Wind Data:	66-ft AGL ^b
Mean Wind Speed	10.1 mph
Maximum, 10-min Mean Wind Speed	51.3 mph – 4/3/2004 12:30 am
Estimated Wind Power Class ^c	Class 1 (86 W/m ²)

^a Data recovery rate for the period, 7/1/2003 to 7/24/2004, is 100%.

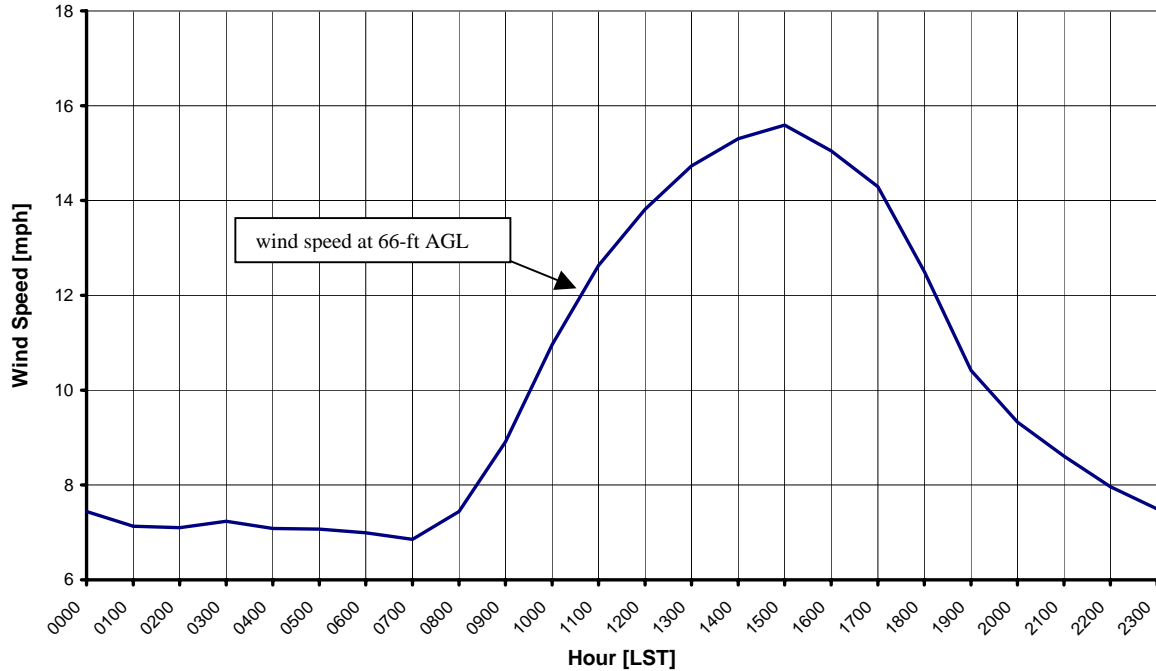
^b Above ground level.

^c Air temperature is not factored into calculation.

Average Hourly Wind Speeds

	66-ft AGL	
LST ^d	mph	m/s
0000	7.4	3.33
0100	7.1	3.19
0200	7.1	3.17
0300	7.2	3.23
0400	7.1	3.17
0500	7.1	3.16
0600	7.0	3.13
0700	6.9	3.06
0800	7.4	3.33
0900	8.9	3.98
1000	11.0	4.90
1100	12.6	5.65
1200	13.8	6.18
1300	14.7	6.58
1400	15.3	6.84
1500	15.6	6.97
1600	15.0	6.73
1700	14.3	6.39
1800	12.5	5.59
1900	10.4	4.66
2000	9.3	4.17
2100	8.6	3.85
2200	8.0	3.56
2300	7.5	3.35

Colorado Anemometer Loan Program - Leadville Site
07/11/2003 - 07/24/2004



^d Local Standard Time



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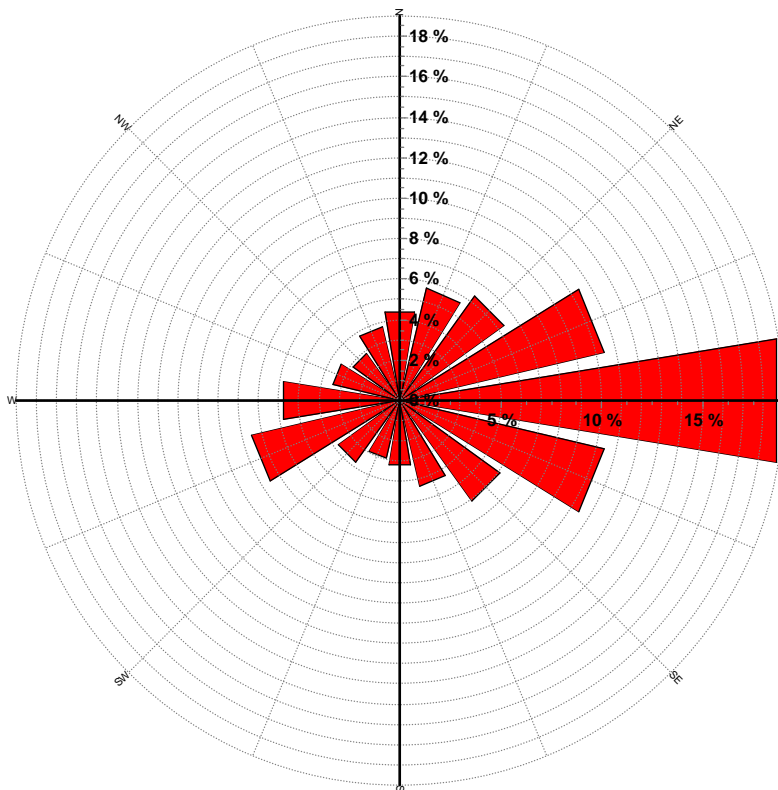
Creation Date: 08/3/2004

Wind Directional Frequency

Winds from the... Frequency (%)

NNW	3.7
NW	2.8
WNW	3.4
W	5.8
WSW	7.6
SW	3.8
SSW	2.9
S	3.2
SSE	4.3
SE	6.1
ESE	10.4
E	18.9
ENE	10.4
NE	6.4
NNE	5.7
N	4.4

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Wind Rose for 66-ft AGL
07/1/2003 - 07/24/2004



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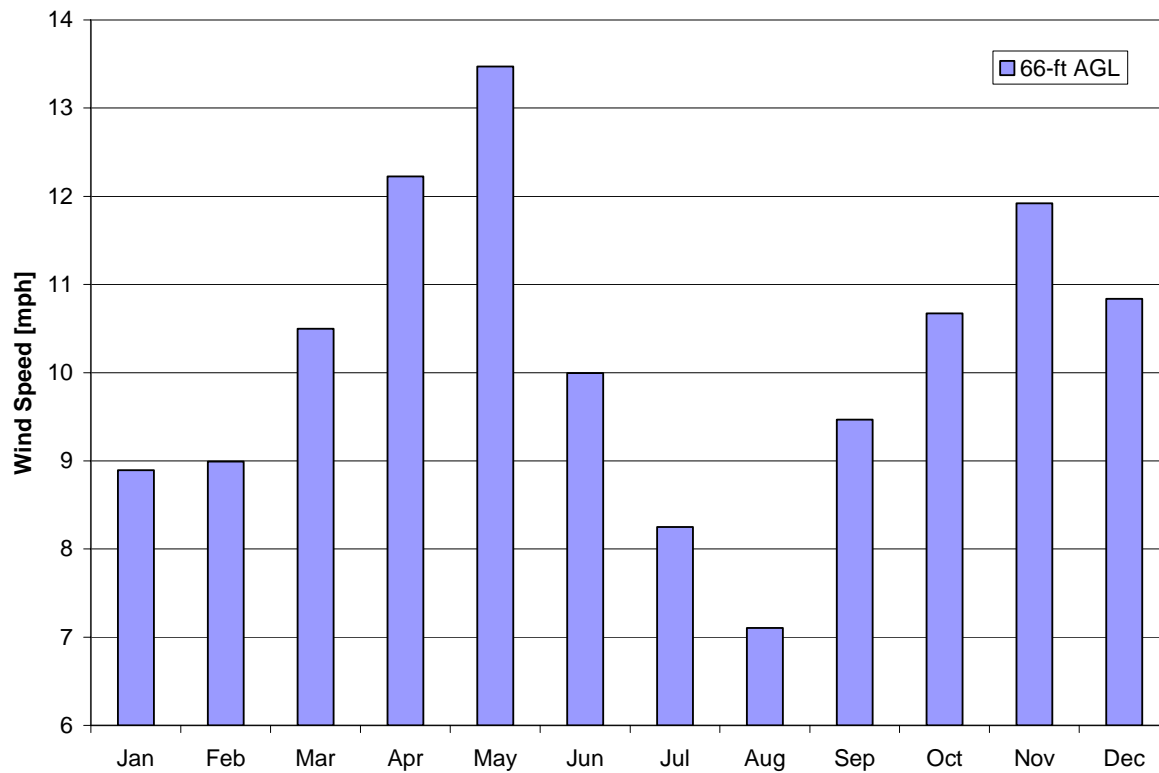
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Monthly Wind Speed Averages

66-ft AGL

Month	mph	m/s
Jan	8.9	3.98
Feb	9.0	4.02
Mar	10.5	4.69
Apr	12.2	5.47
May	13.5	6.02
Jun	10.0	4.47
Jul	8.2	3.69
Aug	7.1	3.18
Sep	9.5	4.23
Oct	10.7	4.77
Nov	11.9	5.33
Dec	10.8	4.84

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