

# Wind Resource Summary for Walsenburg Airport South

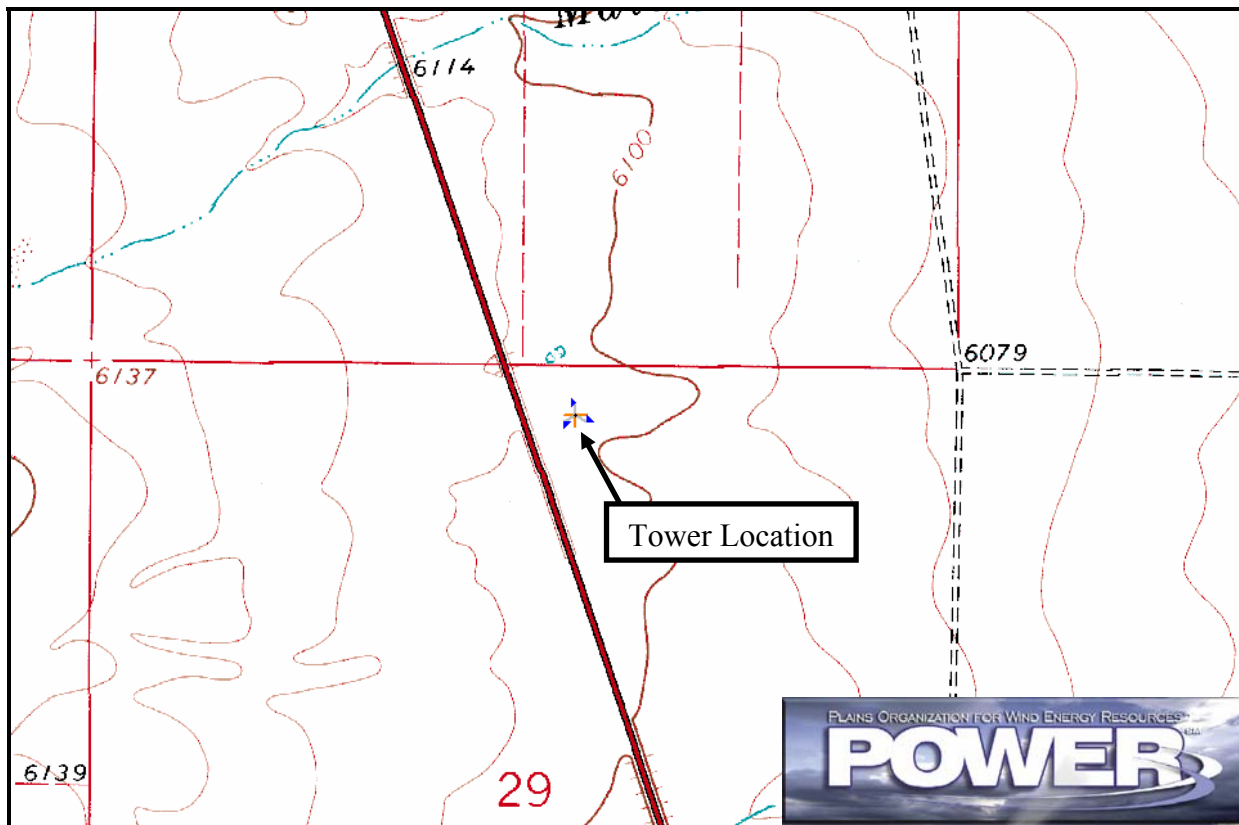
San Isabel Electric Association, Inc.

Monitoring Period:<sup>a</sup> 2/21/2006 – 10/17/2006

## Site Description:

Latitude: N 37° 40' 27"	Township: 27 S
Longitude: W 104° 48' 04"	Range: 66 W
Elevation: 6105 feet	Section: 29
Tower Type: NRG Tilt-Up	Tower Height: 98 feet

The site is approximately 3.5 miles north-northwest of the town of Walsenburg, Colorado. Interstate Highway 25 is located about 300 feet west of the tower. From aerial photos the site appears to be located on pasture land.



<b>Summary Wind Data:</b>	<b>98 ft AGL<sup>b</sup></b>
<b>Mean Wind Speed</b>	13.1 mph
<b>Maximum, 10-min Mean Wind Speed</b>	56.1 mph – 4/5/2006 4:50 p.m.
<b>Estimated Wind Power Class<sup>c</sup></b>	Class 2 (235 W/m <sup>2</sup> )

<sup>a</sup> Data recovery rate was 100%.

<sup>b</sup> Above ground level.

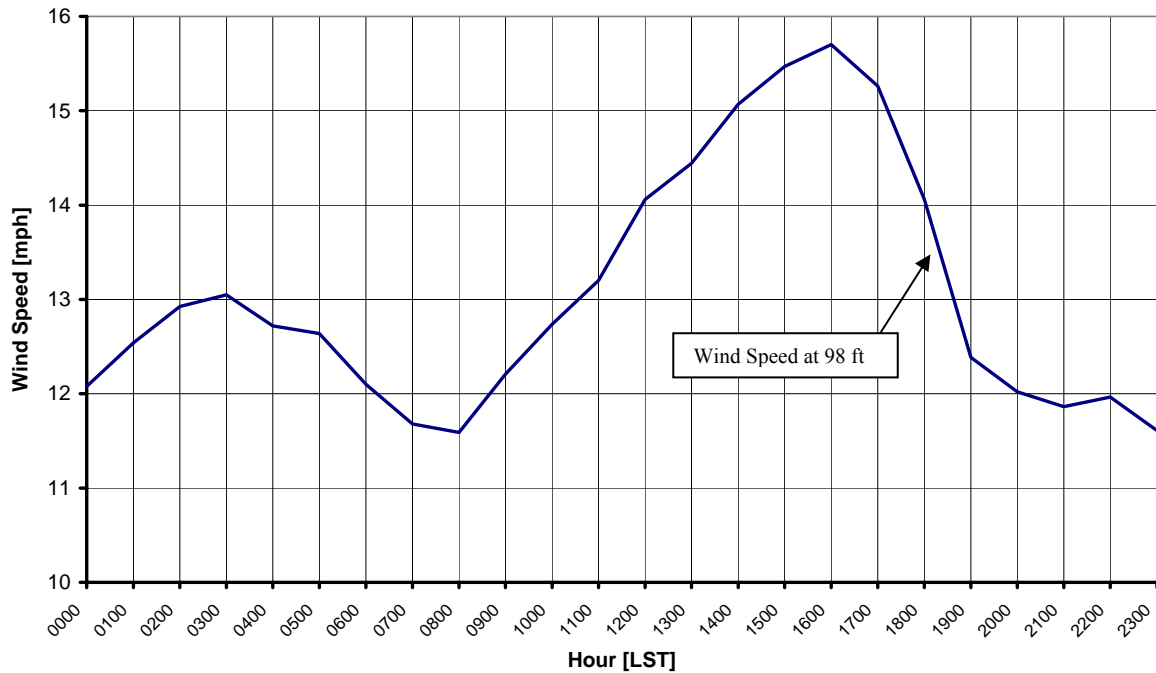
<sup>c</sup> Air temperature was not factored into calculation.

## Average Hourly Wind Speeds

98 ft AGL

LST <sup>d</sup>	mph	m/s
0000	12.1	5.40
0100	12.5	5.61
0200	12.9	5.78
0300	13.0	5.83
0400	12.7	5.69
0500	12.6	5.65
0600	12.1	5.41
0700	11.7	5.22
0800	11.6	5.18
0900	12.2	5.46
1000	12.7	5.69
1100	13.2	5.90
1200	14.1	6.29
1300	14.4	6.46
1400	15.1	6.74
1500	15.5	6.92
1600	15.7	7.02
1700	15.3	6.82
1800	14.1	6.29
1900	12.4	5.54
2000	12.0	5.37
2100	11.9	5.30
2200	12.0	5.35
2300	11.6	5.19

San Isabel Electric Association, Inc. – Walsenburg Airport South  
2/21/2006 – 10/17/2006



<sup>d</sup> Local standard time.



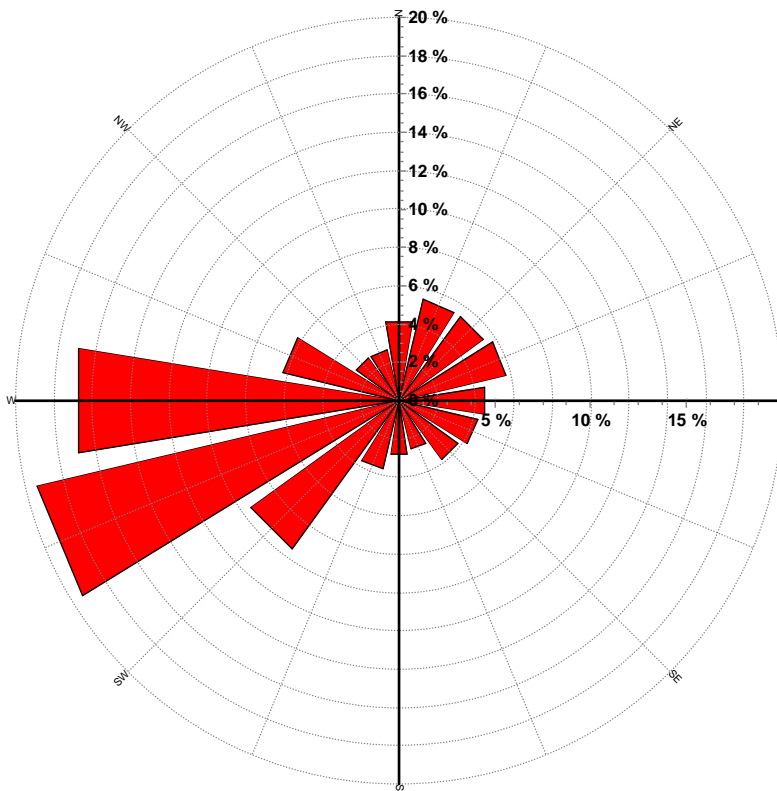
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Creation Date: 11/27/2006

## Wind Directional Frequency

Winds from the...	Frequency (%)
NNW	2.7
NW	2.7
WNW	6.3
W	16.9
WSW	19.4
SW	9.6
SSW	3.7
S	2.8
SSE	2.6
SE	3.8
ESE	4.2
E	4.5
ENE	5.8
NE	5.4
NNE	5.4
N	4.2

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 Wind Rose for 98 ft AGL  
 2/21/2006 – 10/17/2006



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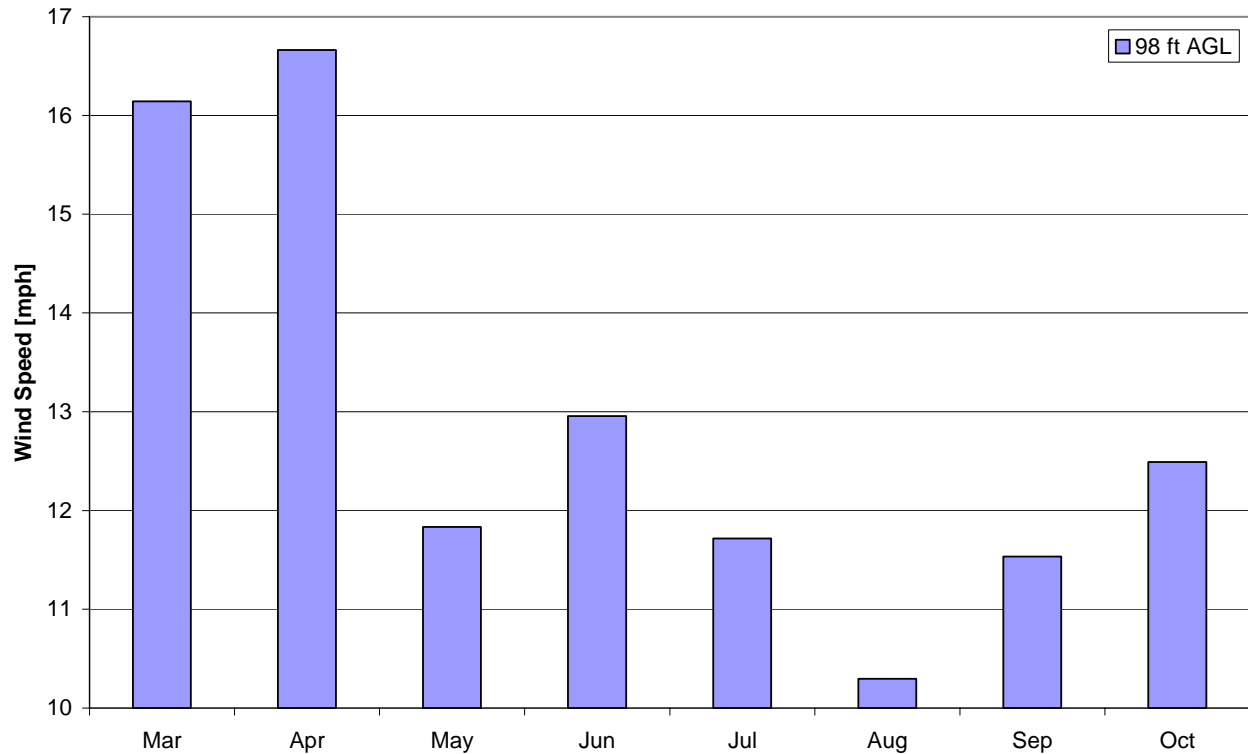
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## Monthly Wind Speed Averages

98 ft AGL

Month	mph	m/s
Mar	16.1	7.22
Apr	16.7	7.45
May	11.8	5.29
Jun	13.0	5.79
Jul	11.7	5.24
Aug	10.3	4.60
Sep	11.5	5.16
Oct	12.5	5.58

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