

Wind Resource Summary for Jamestown Site

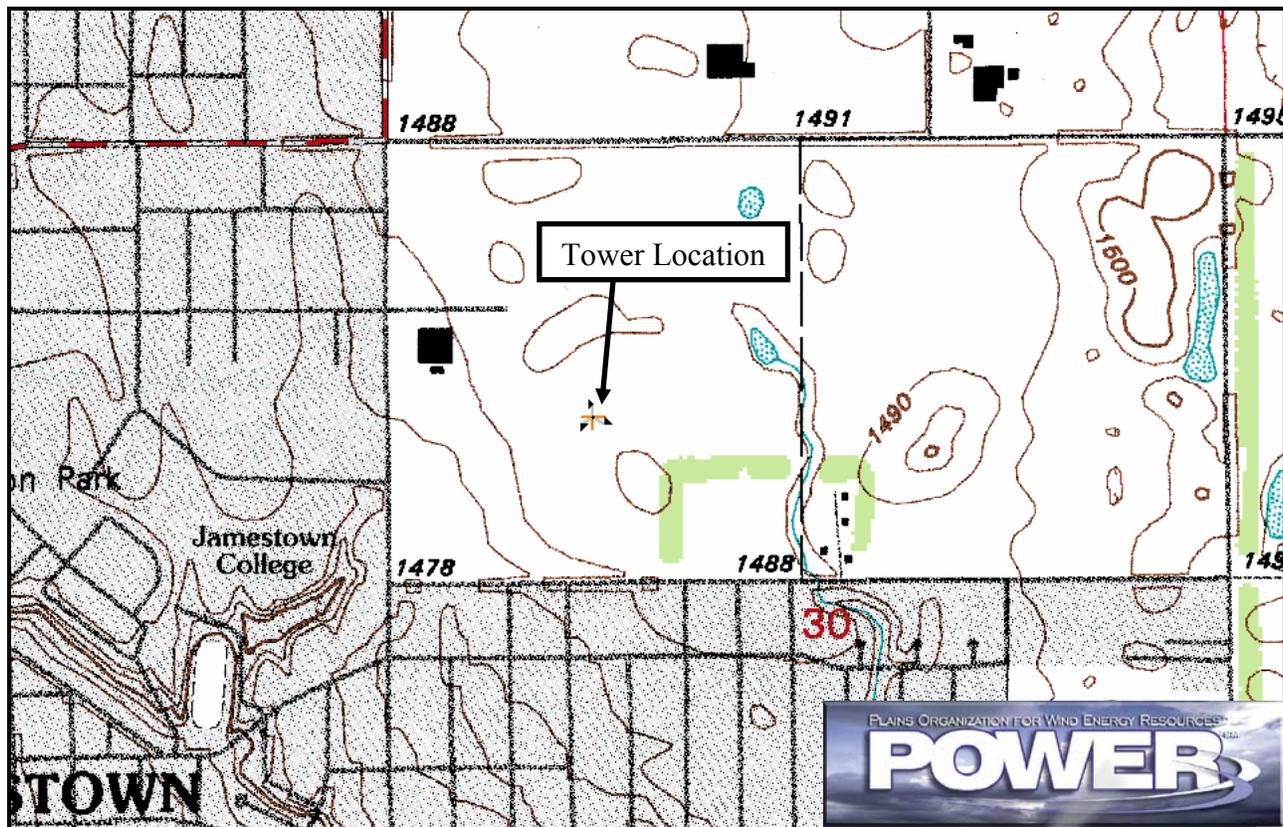
North Dakota Anemometer Loan Program – Site ALP0504

Monitoring Period^a: 10/25/2005 – 6/18/2007

Site Description:

Latitude: N 46° 54' 59"	Township: 140 N
Longitude: W 98° 41' 13"	Range: 63 W
Elevation: 1485 feet	Section: 30
Tower Type: NRG Tilt-Up	Tower Height: 66 feet

The monitoring system was installed for Jamestown Public School District No. 1. The tower is located on the high school grounds. School buildings are located approximately 500 feet north of the site. Windbreaks consisting of both deciduous and evergreen trees are located on the east and south sides of the tower.



Summary Wind Data	66 ft AGL ^b
Mean Wind Speed	10.6 mph
Maximum, 10-min Mean Wind Speed	38.2 mph – 8/4/2006 8:30 p.m.
Estimated Wind Power Class ^c	Class 1 (122 W/m ²)

^a Data recovery rate was 96%.

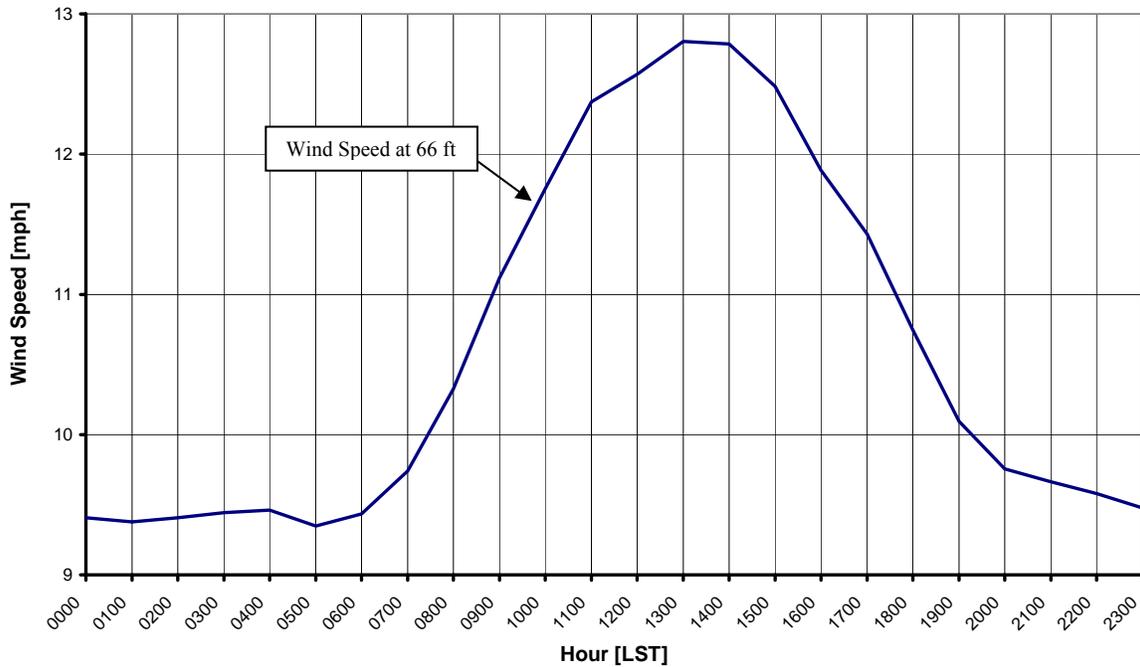
^b Above ground level.

^c Air temperature was not factored into calculation.

Average Hourly Wind Speeds

LST ^d	mph	m/s
0000	9.4	4.21
0100	9.4	4.19
0200	9.4	4.21
0300	9.4	4.22
0400	9.5	4.23
0500	9.3	4.18
0600	9.4	4.22
0700	9.7	4.35
0800	10.3	4.62
0900	11.1	4.97
1000	11.8	5.25
1100	12.4	5.53
1200	12.6	5.62
1300	12.8	5.72
1400	12.8	5.72
1500	12.5	5.58
1600	11.9	5.31
1700	11.4	5.11
1800	10.7	4.80
1900	10.1	4.51
2000	9.8	4.36
2100	9.7	4.32
2200	9.6	4.28
2300	9.5	4.24

North Dakota 2005 ALP Site – Jamestown (ALP 0504)
10/25/2005 – 6/18/2007



^d Local standard time.



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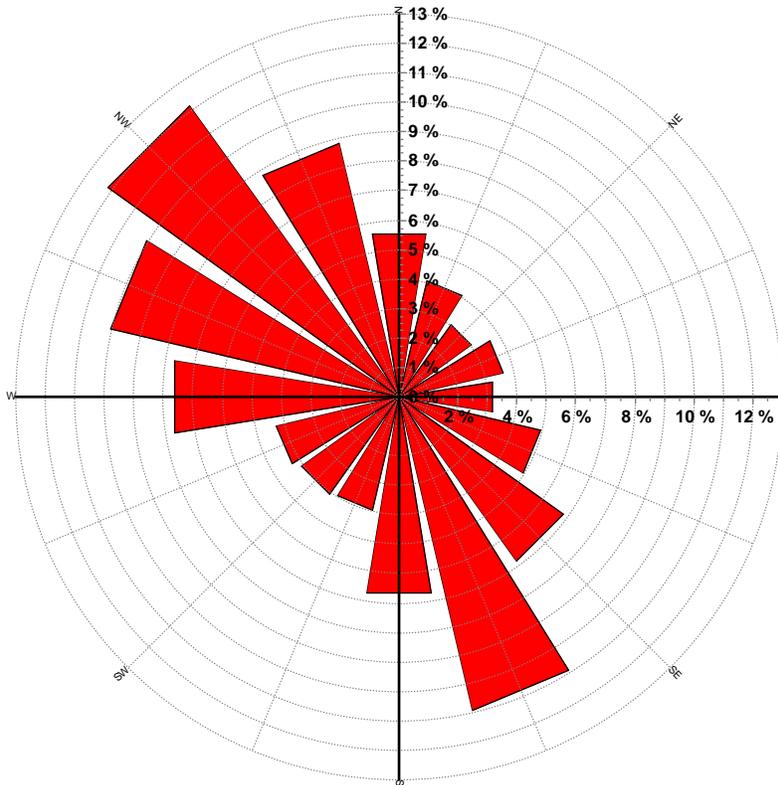
Creation Date: 7/6/2007

Wind Directional Frequency

Winds from the... Frequency (%)

NNW	8.8
NW	12.2
WNW	10.1
W	7.7
WSW	4.3
SW	4.1
SSW	4.0
S	6.7
SSE	10.9
SE	6.8
ESE	4.9
E	3.2
ENE	3.6
NE	3.0
NNE	4.1
N	5.6

North Dakota 2005 ALP Site – Jamestown (ALP 0504)
Wind Rose for 66 ft AGL
10/25/2005 – 6/18/2007



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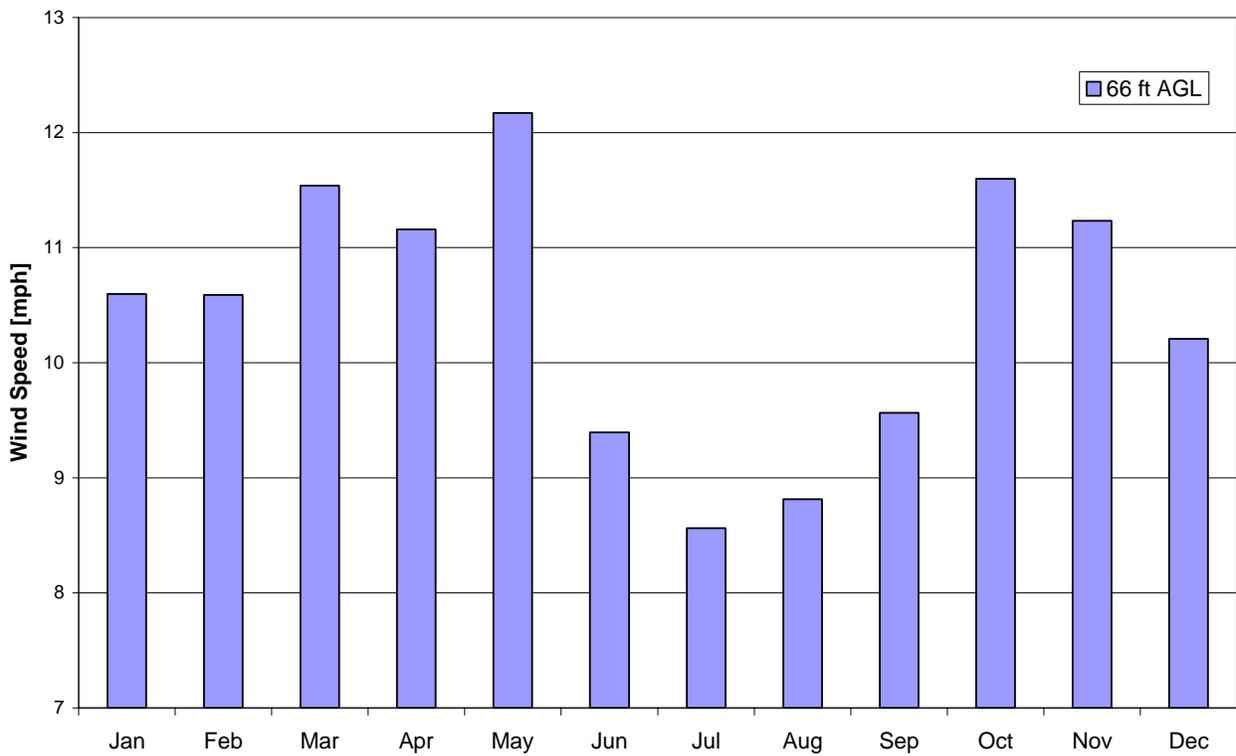
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Monthly Wind Speed Averages

66 ft AGL

Month	mph	m/s
Jan	10.6	4.74
Feb	10.6	4.73
Mar	11.5	5.16
Apr	11.2	4.99
May	12.2	5.44
Jun	9.4	4.20
Jul	8.6	3.83
Aug	8.8	3.94
Sep	9.6	4.27
Oct	11.6	5.18
Nov	11.2	5.02
Dec	10.2	4.56

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