

Wind Resource Summary for Ashley Site

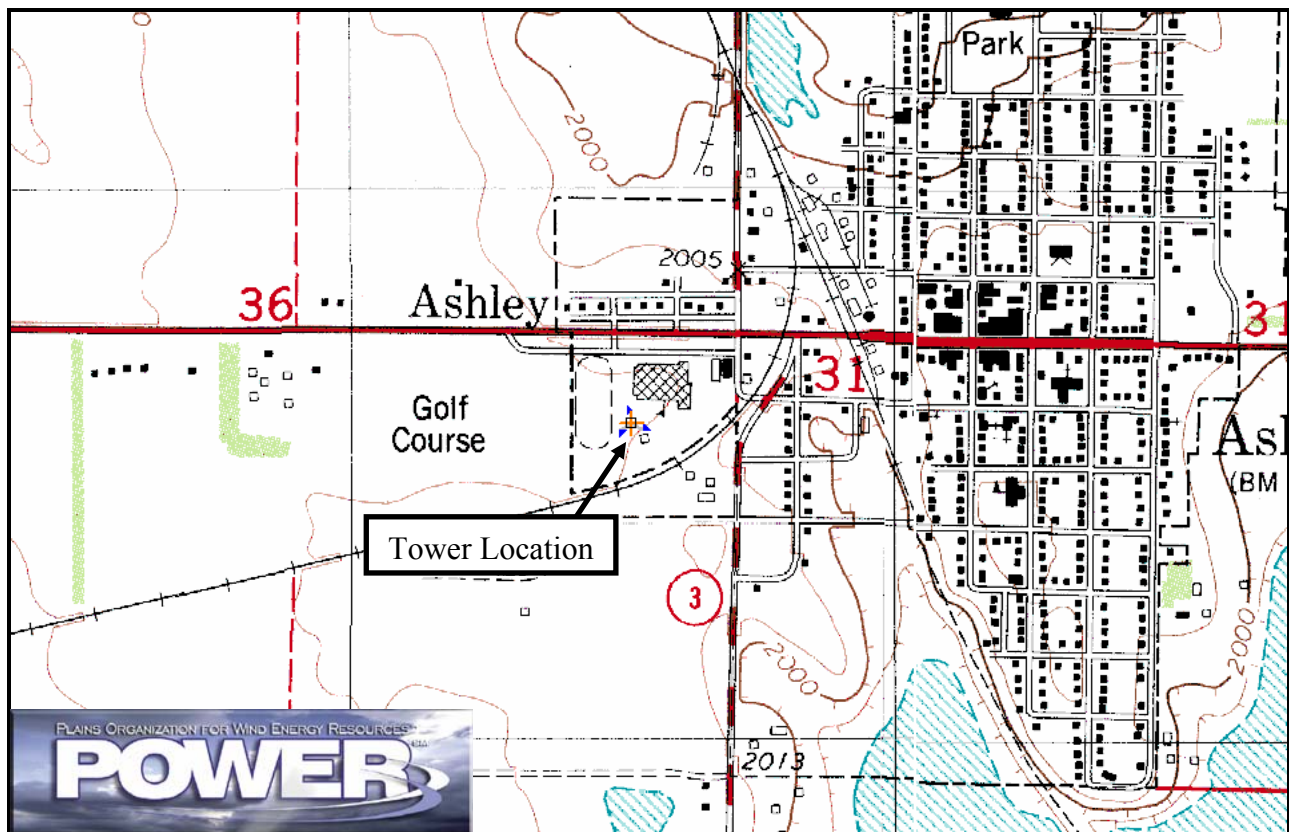
North Dakota Anemometer Loan Program – Site ALP0506

Monitoring Period^a: 11/2/2005 – 4/16/2007

Site Description:

Latitude: N 46° 1' 59"	Township: 130 N
Longitude: W 99° 22' 54"	Range: 69 W
Elevation: 2020 feet	Section: 36
Tower Type: NRG Tilt-Up	Tower Height: 66 feet

The monitoring system was installed for the Ashley School System. The tower is located next to the secondary school. The vegetation around the site is primarily grass; however, there are a significant number of deciduous trees in the area. Buildings to the north and northeast will influence the wind.



Summary Wind Data	66 ft AGL ^b
Mean Wind Speed	13.1 mph
Maximum, 10-min Mean Wind Speed	49.6 mph – 11/28/2005 4:20 p.m.
Estimated Wind Power Class ^c	Class 3 (225 W/m ²)

^a Data recovery rate was 91%. A large data gap exists from 1/11/2006 to 2/3/2006.

^b Above ground level.

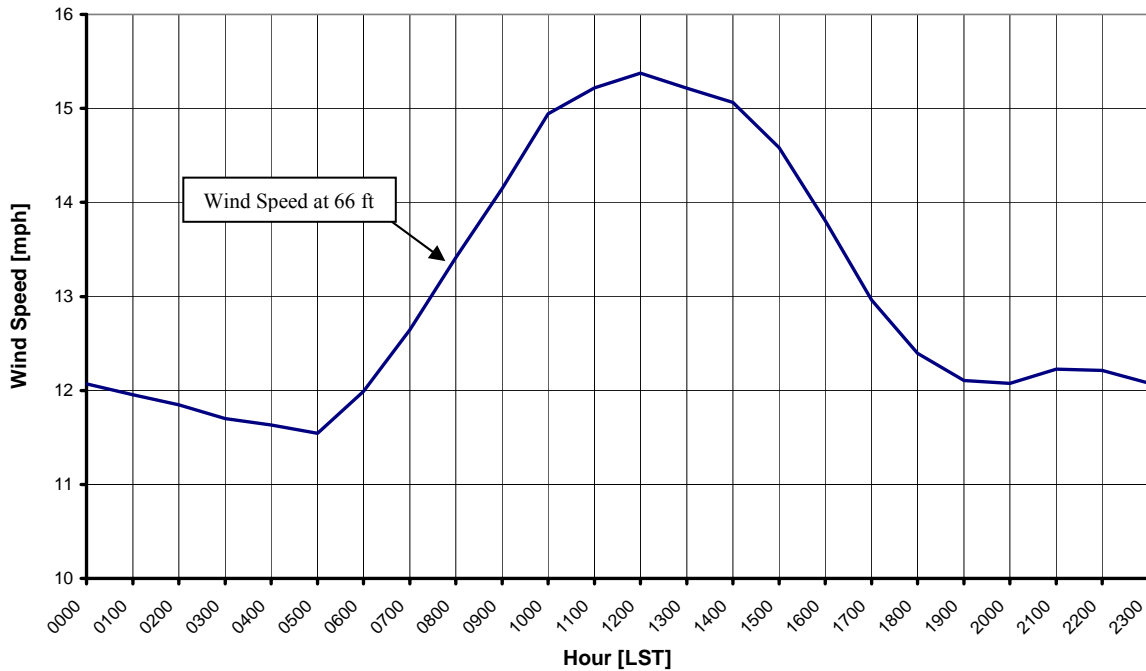
^c Air temperature was not factored into calculation.

Average Hourly Wind Speeds

66 ft AGL

LST ^d	mph	m/s
0000	12.1	5.40
0100	12.0	5.34
0200	11.8	5.30
0300	11.7	5.23
0400	11.6	5.20
0500	11.5	5.16
0600	12.0	5.36
0700	12.6	5.65
0800	13.4	6.00
0900	14.1	6.33
1000	14.9	6.68
1100	15.2	6.80
1200	15.4	6.87
1300	15.2	6.80
1400	15.1	6.73
1500	14.6	6.52
1600	13.8	6.17
1700	13.0	5.79
1800	12.4	5.54
1900	12.1	5.41
2000	12.1	5.40
2100	12.2	5.47
2200	12.2	5.46
2300	12.1	5.40

North Dakota 2005 ALP Site – Ashley (ALP0506)
11/2/2005 – 4/16/2007



^d Local standard time.



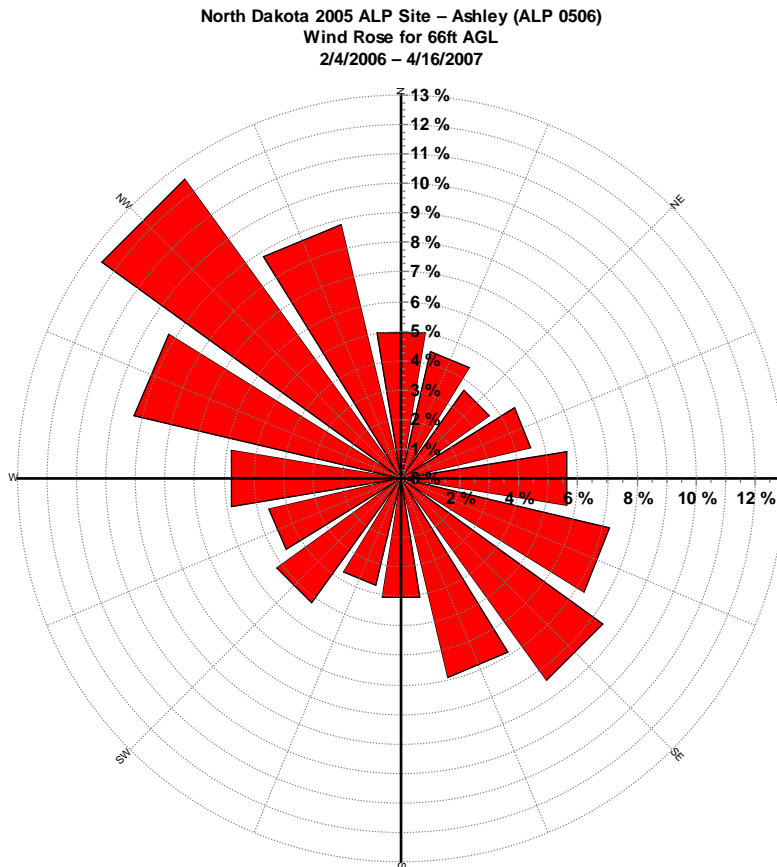
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Wind Directional Frequency*

Winds from the...	Frequency (%)
NNW	8.9
NW	12.5
WNW	9.3
W	5.8
WSW	4.6
SW	5.2
SSW	3.7
S	4.1
SSE	6.9
SE	8.4
ESE	7.3
E	5.7
ENE	4.5
NE	3.7
NNE	4.4
N	5.0

* Statistics based on data collected after 2/4/2006.



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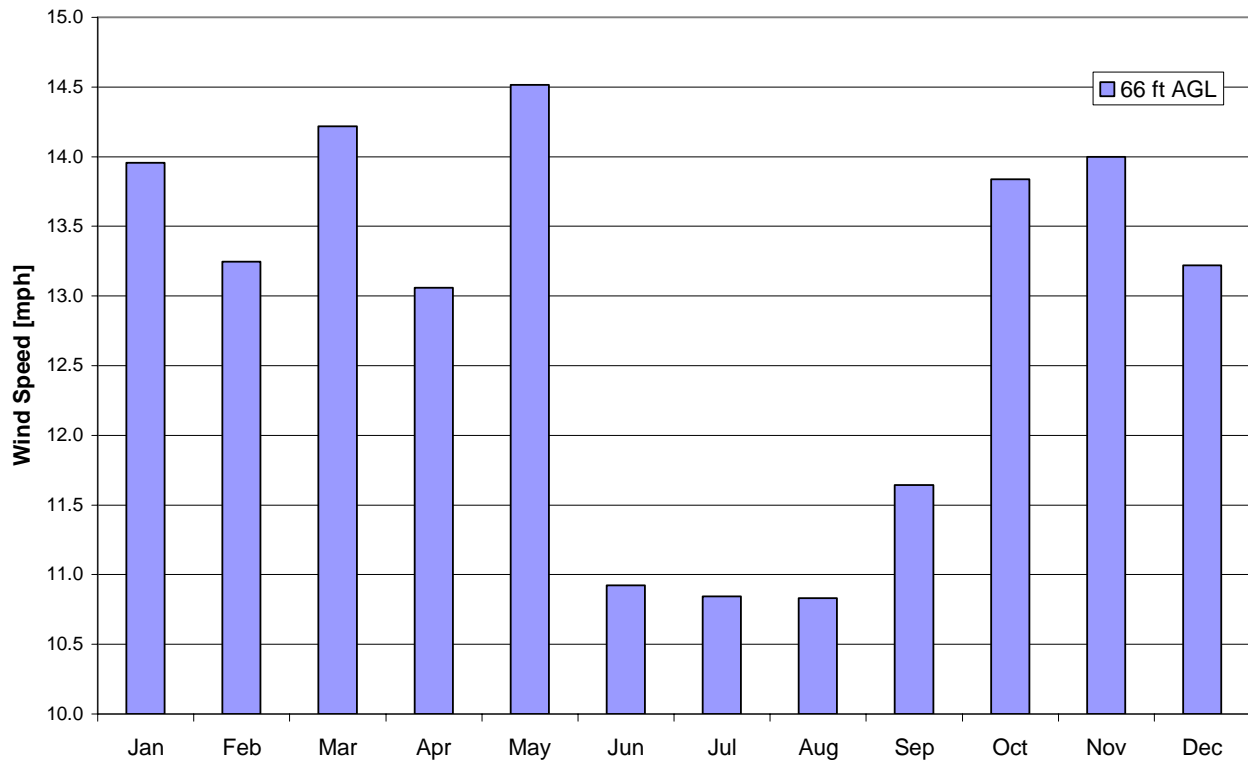
Monthly Wind Speed Averages*

66 ft AGL

Month	mph	m/s
Jan	14.0	6.24
Feb	13.2	5.92
Mar	14.2	6.36
Apr	13.1	5.84
May	14.5	6.49
Jun	10.9	4.88
Jul	10.8	4.85
Aug	10.8	4.84
Sep	11.6	5.21
Oct	13.8	6.19
Nov	14.0	6.26
Dec	13.2	5.91

*A large data gap exists from 1/11/2006 to 2/3/2006.

North Dakota 2005 ALP Site – Ashley (ALP 0506)
11/2/2005 – 4/16/2007



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