

Wind Resource Summary for Finley Site

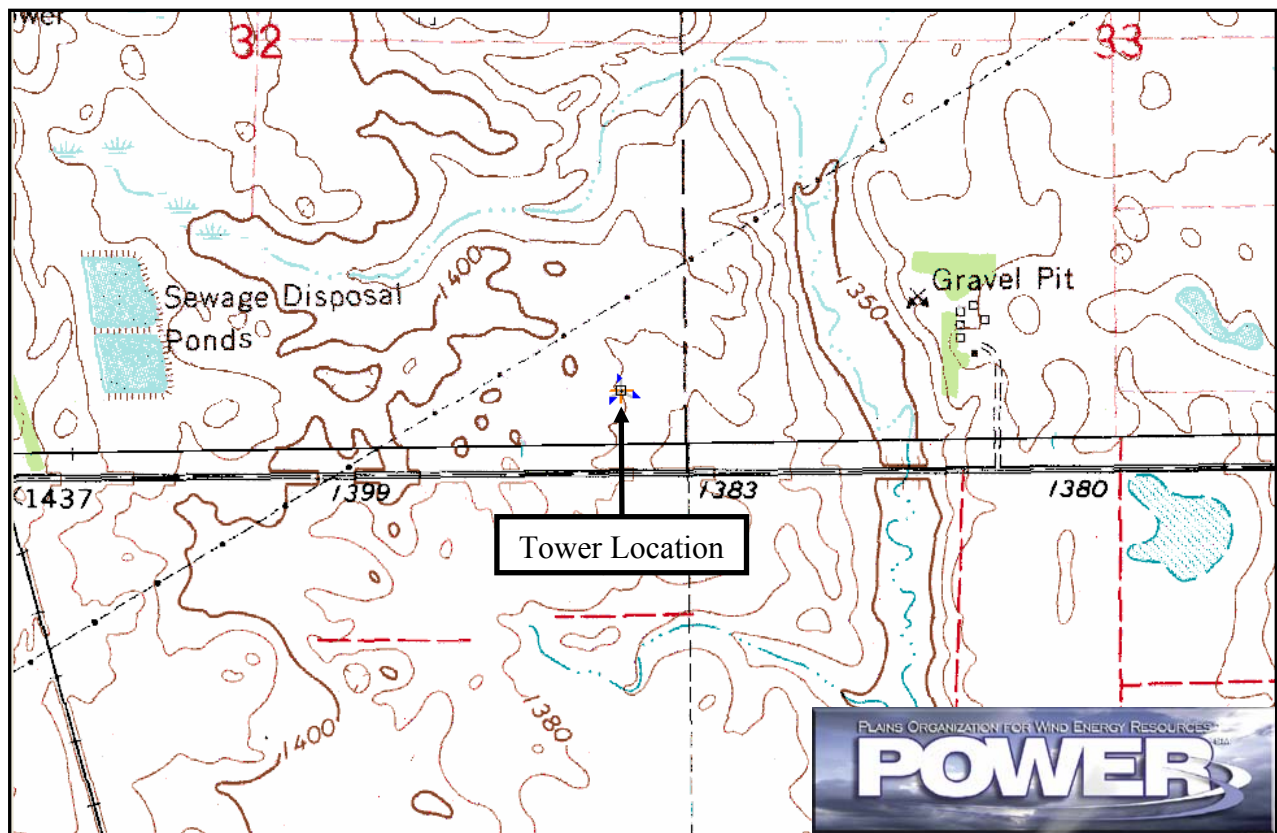
Griggs/Steele Wind Development Group LLC

Monitoring Period:^a 7/1/2000 – 5/30/2004

Site Description:

Latitude: N 47° 30' 1"	Township: 147 N
Longitude: W 97° 49' 00"	Range: 56 W
Elevation: 1390 feet	Section: 32
Tower Type: Lattice Tower	Tower Height: 350 feet

The monitoring site was 1.1 miles southeast of the town of Finley, North Dakota. An existing tower was used and instrumented at four levels: 33 ft (10 m), 131 ft (40 m), 180 ft (55 m), and 230 ft (70 m). Cultivated fields and pasture characterize the landscape, with the exception of the town of Finley.



Summary Wind Data:	33 ft AGL ^b	131 ft AGL	180 ft AGL	230 ft AGL
Mean Wind Speed	12.1 mph	15.6 mph	16.6 mph	16.9 mph
Maximum, 60-min Mean Wind Speed	49.3 mph at 180 ft AGL – 2/11/2002 3:00 pm			
Estimated Wind Power Class ^c	Class 3 (378 W/m ² at 180 ft AGL)			

^a Data recovery rates for wind speed at 33, 131, 180, and 230 feet were 94%, 94%, 94%, and 53%, respectively.

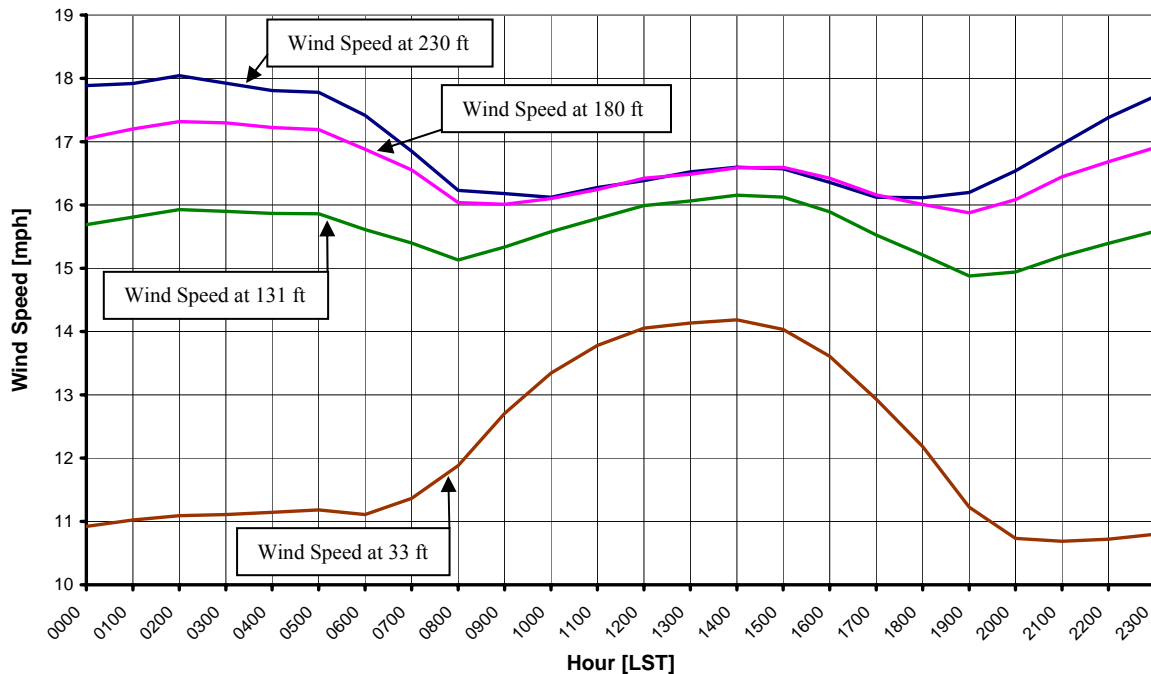
^b Above ground level.

^c Air temperature was not factored into calculations.

Average Hourly Wind Speeds

LST ^d	230 ft AGL		180 ft AGL		131 ft AGL		33 ft AGL	
	mph	m/s	mph	m/s	mph	m/s	mph	m/s
0000	17.9	8.00	17.0	7.62	15.7	7.01	10.9	4.88
0100	17.9	8.01	17.2	7.69	15.8	7.07	11.0	4.93
0200	18.0	8.07	17.3	7.74	15.9	7.12	11.1	4.96
0300	17.9	8.01	17.3	7.73	15.9	7.11	11.1	4.97
0400	17.8	7.96	17.2	7.70	15.9	7.09	11.1	4.98
0500	17.8	7.95	17.2	7.69	15.9	7.09	11.2	5.00
0600	17.4	7.79	16.9	7.55	15.6	6.98	11.1	4.97
0700	16.8	7.53	16.6	7.40	15.4	6.88	11.4	5.08
0800	16.2	7.26	16.0	7.17	15.1	6.76	11.9	5.31
0900	16.2	7.23	16.0	7.16	15.3	6.86	12.7	5.68
1000	16.1	7.21	16.1	7.20	15.6	6.96	13.3	5.97
1100	16.3	7.28	16.2	7.26	15.8	7.06	13.8	6.16
1200	16.4	7.32	16.4	7.34	16.0	7.15	14.1	6.28
1300	16.5	7.39	16.5	7.37	16.1	7.18	14.1	6.32
1400	16.6	7.42	16.6	7.42	16.2	7.22	14.2	6.34
1500	16.6	7.41	16.6	7.42	16.1	7.21	14.0	6.27
1600	16.4	7.31	16.4	7.34	15.9	7.10	13.6	6.08
1700	16.1	7.21	16.2	7.22	15.5	6.94	12.9	5.78
1800	16.1	7.20	16.0	7.16	15.2	6.80	12.2	5.45
1900	16.2	7.24	15.9	7.10	14.9	6.65	11.2	5.02
2000	16.5	7.39	16.1	7.19	14.9	6.68	10.7	4.80
2100	17.0	7.58	16.4	7.35	15.2	6.79	10.7	4.78
2200	17.4	7.77	16.7	7.46	15.4	6.88	10.7	4.79
2300	17.7	7.92	16.9	7.56	15.6	6.97	10.8	4.83

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^d Local standard time.



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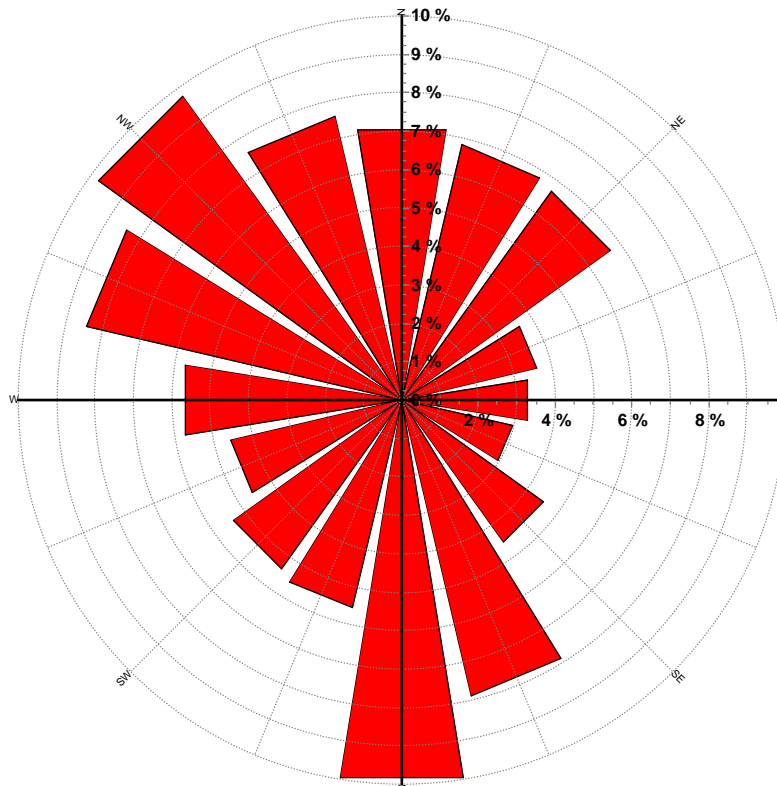
Wind Directional Frequency

Winds from the... Frequency (%)

NNW	7.6
NW	9.8
WNW	8.4
W	5.7
WSW	4.6
SW	5.4
SSW	5.6
S	10.0
SSE	7.9
SE	4.6
ESE	3.0
E	3.3
ENE	3.6
NE	6.7
NNE	6.8
N	7.1

* Data recovery rate for wind direction at 230 ft AGL was 40%.

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Wind Rose for 230-ft AGL
7/1/2000 - 5/30/2004



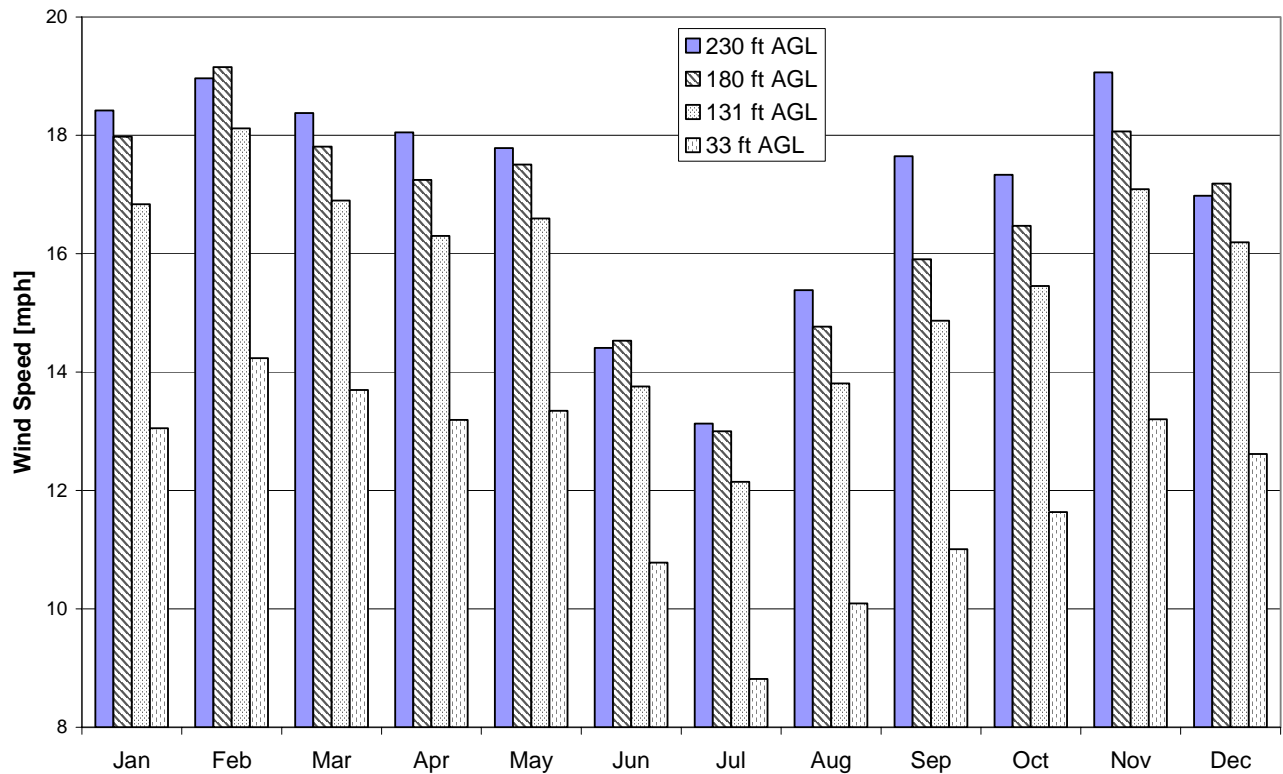
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Monthly Wind Speed Averages

Month	230 ft AGL		180 ft AGL		131 ft AGL		33 ft AGL	
	mph	m/s	mph	m/s	mph	m/s	mph	m/s
Jan	18.4	8.24	18.0	8.04	16.8	7.53	13.1	5.84
Feb	19.0	8.48	19.2	8.56	18.1	8.10	14.2	6.36
Mar	18.4	8.22	17.8	7.96	16.9	7.55	13.7	6.12
Apr	18.0	8.07	17.2	7.71	16.3	7.29	13.2	5.90
May	17.8	7.95	17.5	7.83	16.6	7.42	13.3	5.97
Jun	14.4	6.44	14.5	6.50	13.8	6.15	10.8	4.82
Jul	13.1	5.87	13.0	5.81	12.1	5.43	8.8	3.94
Aug	15.4	6.88	14.8	6.60	13.8	6.17	10.1	4.51
Sep	17.6	7.89	15.9	7.11	14.9	6.65	11.0	4.92
Oct	17.3	7.75	16.5	7.36	15.5	6.91	11.6	5.20
Nov	19.1	8.52	18.1	8.08	17.1	7.64	13.2	5.90
Dec	17.0	7.59	17.2	7.68	16.2	7.24	12.6	5.64

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