

Wind Resource Summary for Fort Collins Site

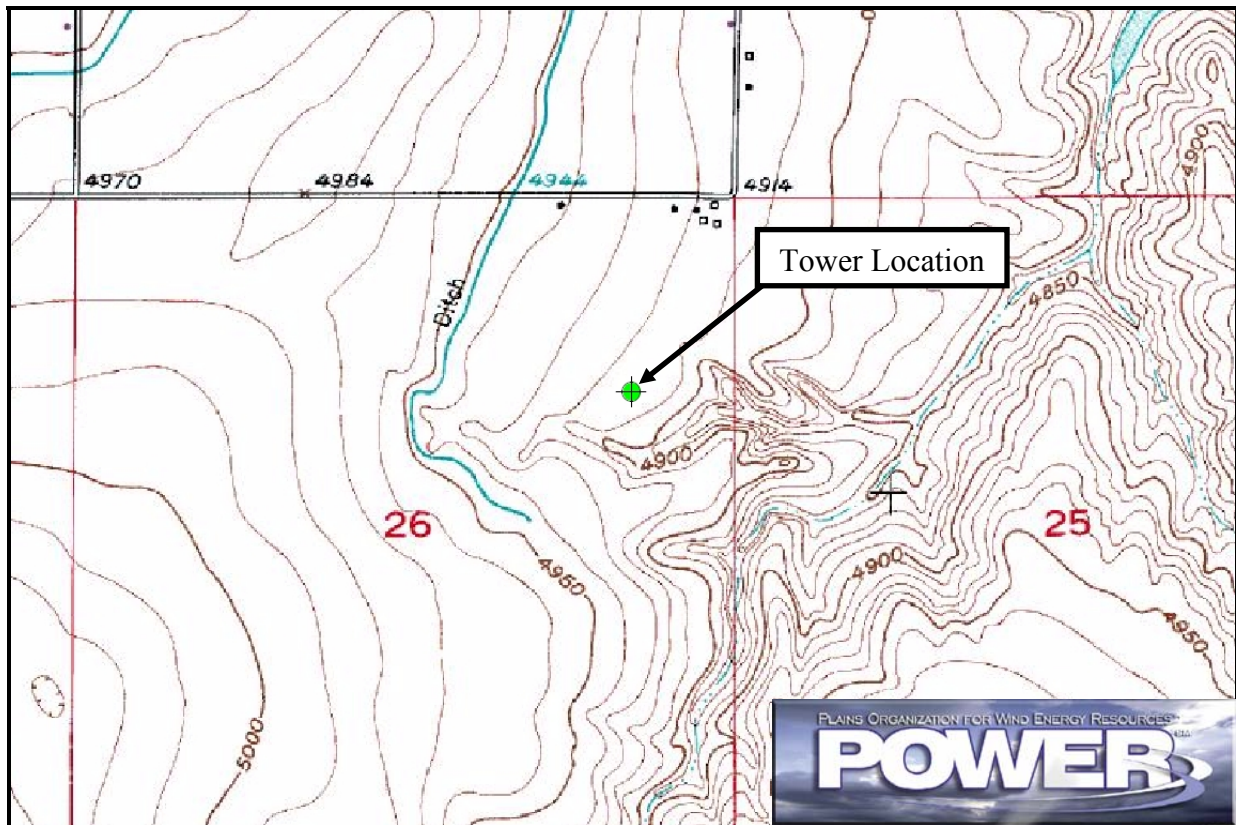
Colorado Anemometer Loan Program

Monitoring Period^a: 10/2/2006 – 2/27/2007

Site Description:

Latitude: N 40° 27' 38"	Township: 6 N
Longitude: W 104° 57' 59"	Range: 68 W
Elevation: 4903 feet	Section: 26
Tower Type: NRG Tilt-Up	Tower Height: 66 feet

The tower is located between the cities of Fort Collins and Loveland, Colorado, approximately 10 miles southeast of downtown Fort Collins. The site is in a new housing development (as of 2006) and next to the Highland Meadows Golf Course. Situated on the eastern slopes of the Rocky Mountains, the local terrain is rough but fairly flat. Both trees and buildings will affect the tower's exposure to the wind.



Summary Wind Data	66 ft AGL ^b
Mean Wind Speed	6.5 mph
Maximum, 10-min Mean Wind Speed	42.1 mph – 11/14/2006 1:30 p.m.
Estimated Wind Power Class ^c	Class 1 (46 W/m ²)

^a Data recovery rate was 99%.

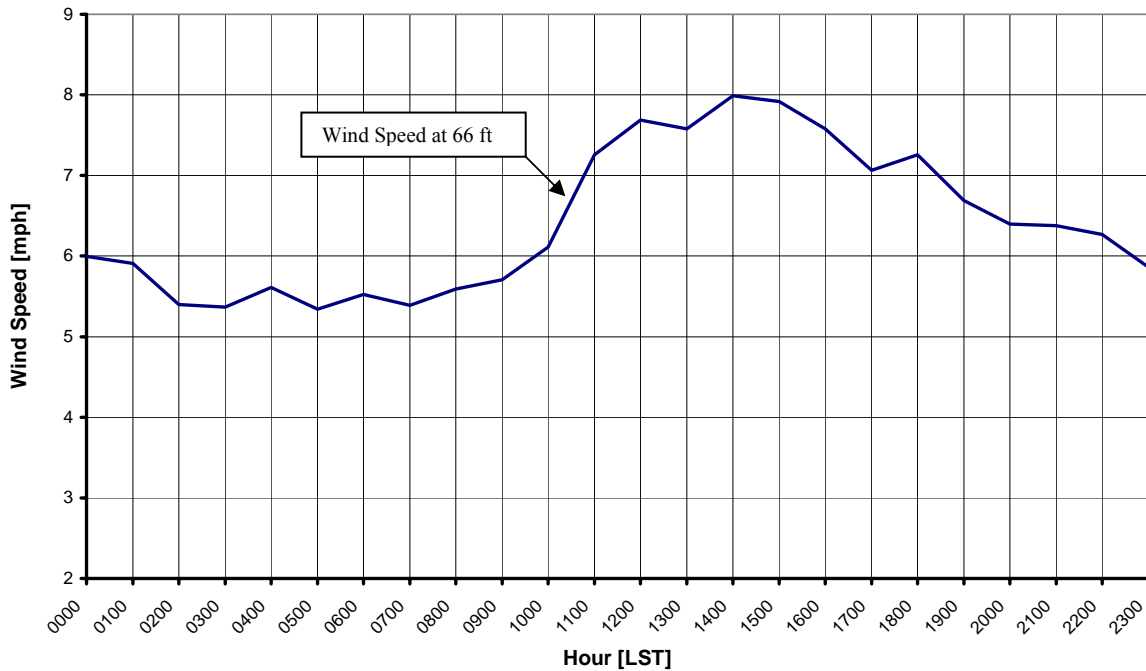
^b Above ground level.

^c Air temperature was not factored into calculation.

Average Hourly Wind Speeds

LST ^d	66 ft AGL	
	mph	m/s
0000	6.0	2.68
0100	5.9	2.64
0200	5.4	2.41
0300	5.4	2.40
0400	5.6	2.51
0500	5.3	2.39
0600	5.5	2.47
0700	5.4	2.41
0800	5.6	2.50
0900	5.7	2.55
1000	6.1	2.73
1100	7.3	3.24
1200	7.7	3.44
1300	7.6	3.39
1400	8.0	3.57
1500	7.9	3.54
1600	7.6	3.39
1700	7.1	3.16
1800	7.3	3.24
1900	6.7	2.99
2000	6.4	2.86
2100	6.4	2.85
2200	6.3	2.80
2300	5.9	2.62

Colorado Anemometer Loan Program – Ft. Collins Site
10/2/2006 – 2/27/2007



^d Local standard time.



Energy & Environmental Research Center
 701-777-5000 or bstevens@undeerc.org

Wind Directional Frequency

The wind direction sensor was not functioning correctly during this period.



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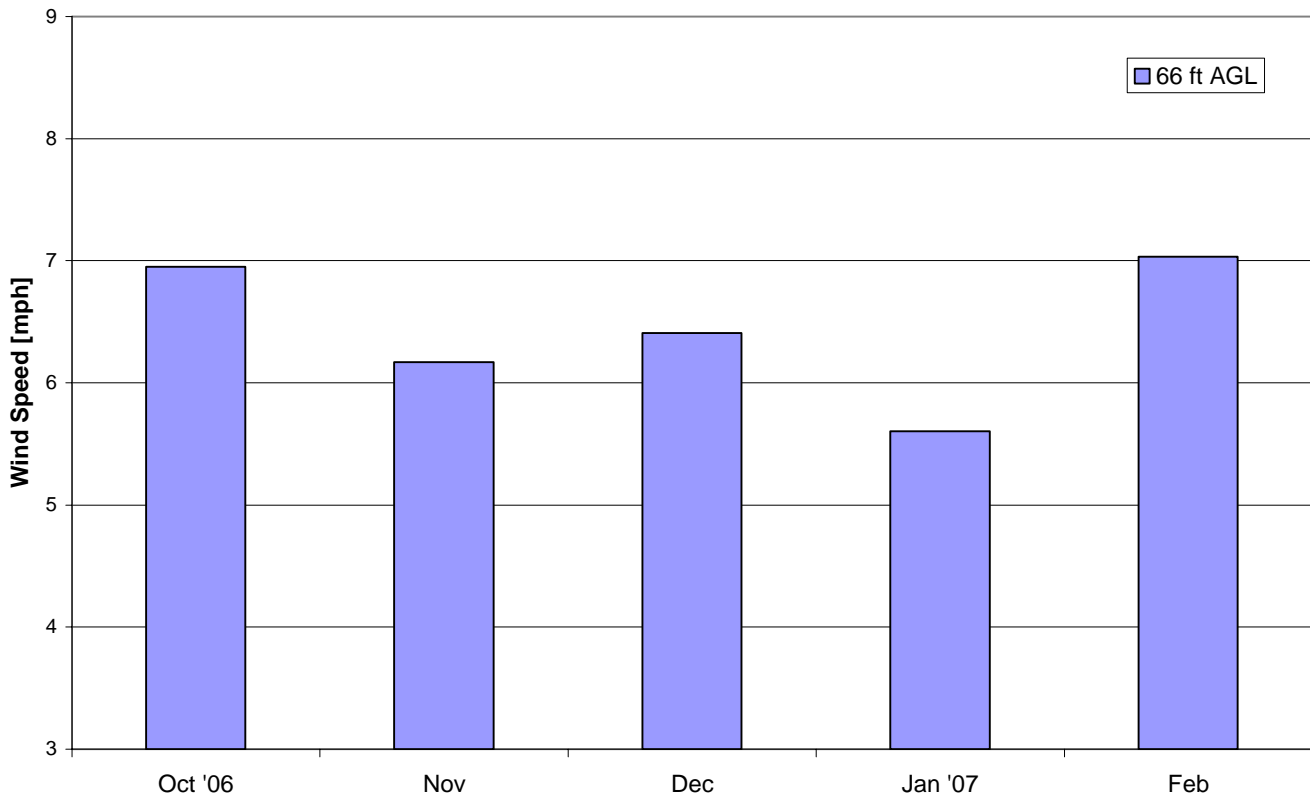
Creation Date: 3/29/2007

Monthly Wind Speed Averages

66 ft AGL

Month	mph	m/s
Oct '06	7.0	3.11
Nov	6.2	2.76
Dec	6.4	2.87
Jan '07	5.6	2.50
Feb	7.0	3.14

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