

## Bureau County

### 1. Site Information:

- Section 3, Princeton Township (Princeton)
- Latitude - N 41° 23.832'
- Longitude - W 89° 26.449'
- Tower Height and Type - 50 meter Met Tower (Operated by the City of Princeton)

### 2. Instrument Information:

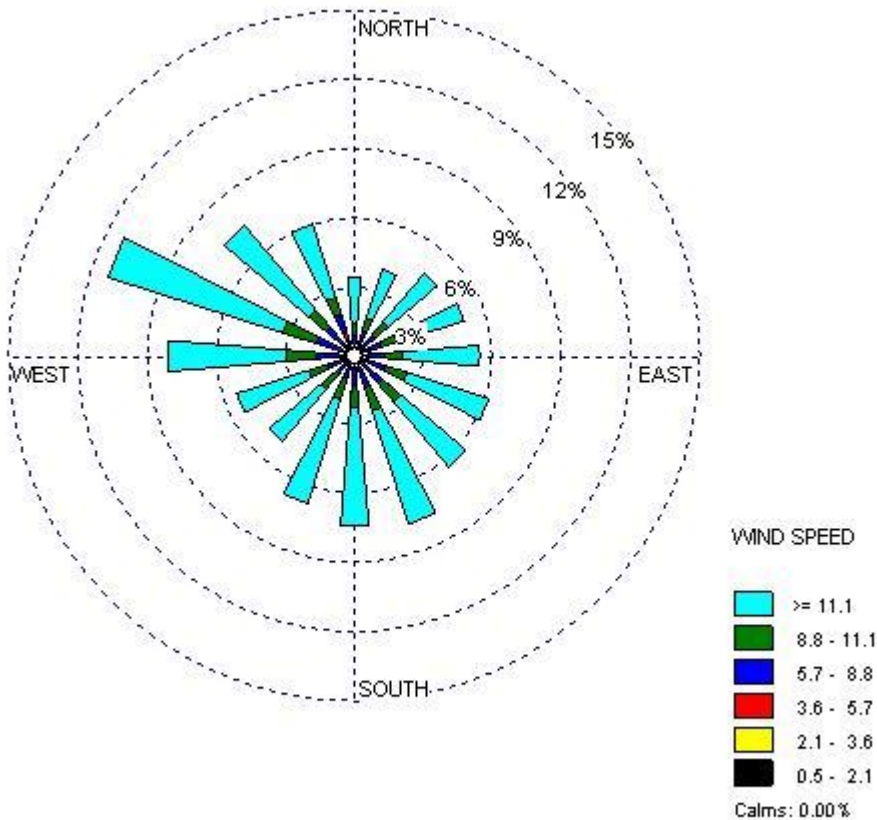
- Wind Speed: at 10m, 30m and 50m
- Wind Direction: at 10m and 50m
- Temperature: at 2m

### 3. Measurement

- Period: August 17, 2005 – August 2, 2006
- Measuring Interval: 1 hour (August 17 – Nov. 23, 2005) and  
10 minutes (Nov. 23, 2005 – August 2, 2006)
- Total No. of Hours/Total No. of Hours Used: 8174 hr/8174 hr

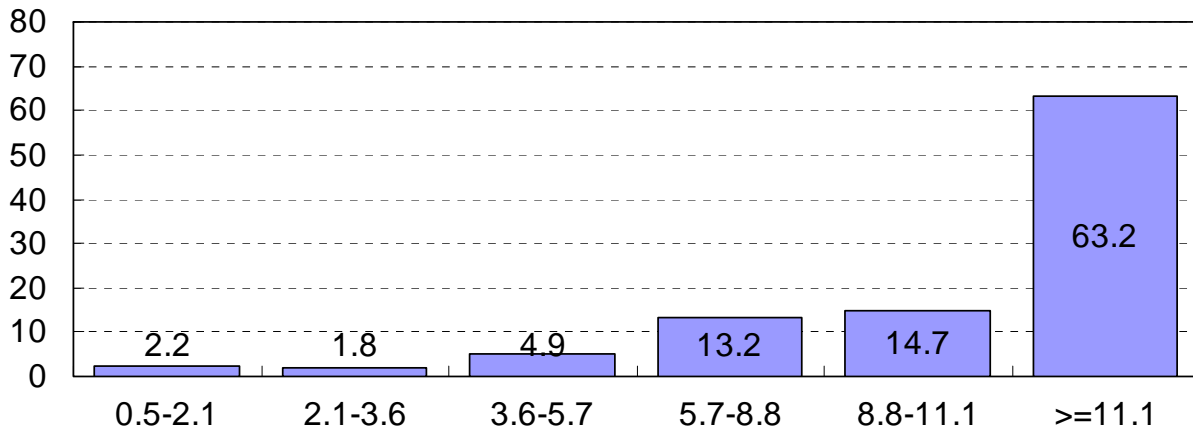
### 4. Results

- Wind Rose: Wind Speed at 50m (mph) and Wind Direction at 50m



- Average Wind Speed at 50m: 13.5 mph / 11.7 knots / 6.0 m/s

c. Wind Speed Distribution (mph) at 50m



d. Monthly Average Wind Speed (mph) at different measuring heights

Month	10m		30m		50m	
	Average	STDEV	Average	STDEV	Average	STDEV
August, 2005	4.4	1.8	8.8	1.7	10.5	1.7
September, 2005	5.0	2.0	9.8	1.9	11.6	1.9
October, 2005	5.7	1.9	10.5	1.9	12.1	1.8
November, 2005	11.8	2.4	15.6	2.3	17.2	2.3
December, 2005	8.9	1.6	11.9	1.5	13.1	1.5
January, 2006	10.6	1.9	13.4	1.6	14.6	1.6
February, 2006	10.1	1.9	13.2	1.7	14.5	1.7
March, 2006	10.2	2.1	13.8	1.9	15.2	1.8
April, 2006	11.0	2.2	14.7	2.0	16.4	1.9
May, 2006	8.2	1.9	11.5	1.8	12.7	1.7
June, 2006	6.9	1.9	10.6	1.8	12.1	1.7
July, 2006	5.2	1.6	8.8	1.5	10.3	1.5
August, 2006	4.6	1.5	8.2	1.5	9.6	1.4

