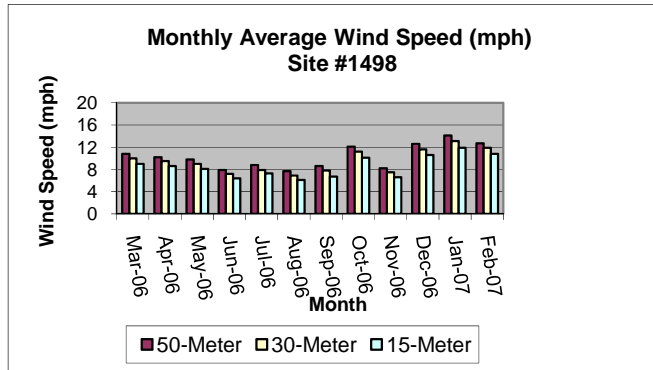




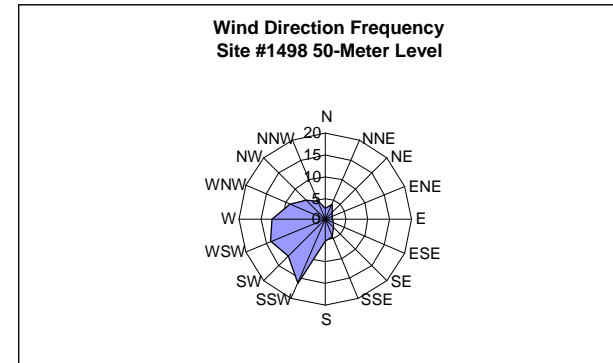
### Monthly Variation

The chart below shows the average monthly wind speed throughout the recorded year. Below average months occurred during the testing period with slightly stronger winds occurring in the winter.



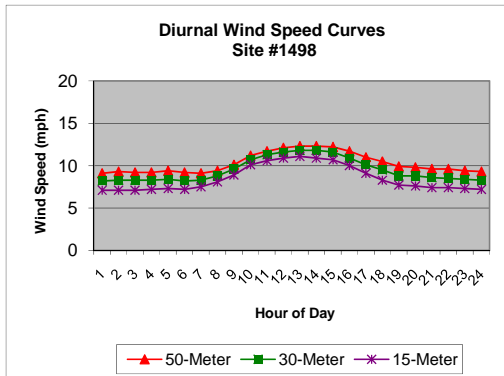
### Wind Direction

The chart below displays a frequency wind rose. The majority of the wind comes from the south, south west, south west, west south west and west.



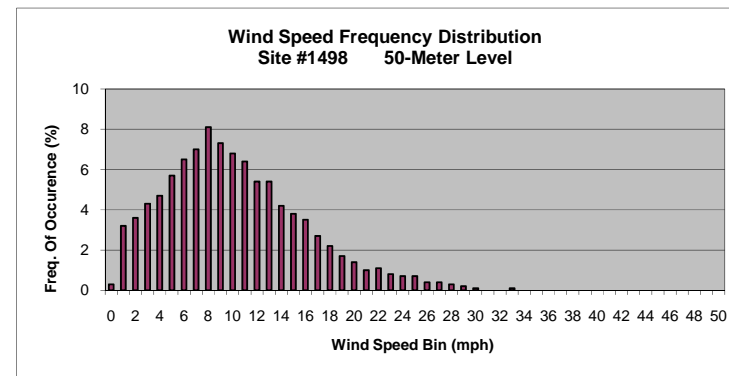
### Diurnal Curves

The chart below shows how wind speeds vary on an hourly basis. The winds fluctuate with stronger winds occurring in the afternoon hours tapering off throughout the evening and early morning hours.



### Wind Speed Frequency

The chart below shows the frequency distribution of the wind speed. The graph shows what percentage of time the wind speed was at a certain miles per hour (mph).



## Somerset County Site #1498

### Mean Monthly Average Wind Speed (mph)

Month	50-Meter	30-Meter	15-Meter
Mar-06	10.8	10	9
Apr-06	10.2	9.5	8.6
May-06	9.8	9	8.1
Jun-06	7.9	7.2	6.4
Jul-06	8.8	7.9	7.3
Aug-06	7.7	6.9	6.1
Sep-06	8.6	7.8	6.7
Oct-06	12.1	11.2	10.1
Nov-06	8.2	7.5	6.6
Dec-06	12.6	11.6	10.6
Jan-07	14.1	13.1	11.9
Feb-07	12.7	11.9	10.8

Direction	Percent of Time Wind Blows Comes the Direction
N	2.4
NNE	3.8
NE	2.3
ENE	1.5
E	1.6
ESE	1.8
SE	2.9
SSE	4.5
S	5
SSW	16.1
SW	12.1
WSW	13.8
W	12.4
WNW	8.8
NW	6.5
NNW	4.5

### Mean Wind Speed By Hour of the Day

Hour	50-Meter	30-Meter	15-Meter
1	9.1	8.2	7.1
2	9.3	8.3	7.1
3	9.2	8.3	7.1
4	9.2	8.3	7.2
5	9.4	8.4	7.3
6	9.2	8.2	7.2
7	9.1	8.3	7.5
8	9.4	8.8	8.1
9	10.1	9.6	8.9
10	11.2	10.7	10.1
11	11.7	11.3	10.6
12	12.1	11.6	10.9
13	12.3	11.8	11.1
14	12.3	11.8	10.9
15	12.2	11.6	10.7
16	11.7	10.9	10
17	11	10.1	9.1
18	10.5	9.5	8.3
19	9.9	8.8	7.7
20	9.8	8.8	7.6
21	9.6	8.6	7.4
22	9.6	8.5	7.4
23	9.4	8.4	7.3
24	9.3	8.3	7.2

Wind Speed Bin (mph)	Percent of Time Wind Speed Occurs in Each Bin	Wind Speed Bin (mph)	Percent of Time Wind Speed Occurs in Each Bin
0	0.3		
1	3.2	26	0.4
2	3.6	27	0.4
3	4.3	28	0.3
4	4.7	29	0.2
5	5.7	30	0.1
6	6.5	31	0
7	7	32	0
8	8.1	33	0.1
9	7.3	34	0
10	6.8	35	0
11	6.4	36	0
12	5.4	37	0
13	5.4	38	0
14	4.2	39	0
15	3.8	40	0
16	3.5	41	0
17	2.7	42	0
18	2.2	43	0
19	1.7	44	0
20	1.4	45	0
21	1	46	0
22	1.1	47	0
23	0.8	48	0
24	0.7	49	0
25	0.7	50	0