

Wind Distribution from Muskegon Airport Data

Month	Average Windspeed	On-peak Windspeed	Off-peak Windspeed	On-peak Cap.Factor	Off-peak Cap.factor
January	9.96	9.47	10.94	28.70	33.15
February	7.50	7.25	8.24	21.97	24.96
March	11.08	9.97	12.17	30.20	36.87
April	7.29	6.53	8.01	19.79	24.26
May	3.83	5.56	4.21	16.84	12.75
June	4.79	3.72	5.26	11.26	15.94
July	8.04	8.06	8.83	24.42	26.76
August	7.63	8.51	8.38	25.77	25.39
September	3.04	3.58	3.34	10.84	10.11
October	8.54	10.40	9.38	31.50	28.42
November	9.29	9.95	10.20	30.15	30.92
December	<u>11.88</u>	<u>9.52</u>	13.05	<u>28.83</u>	<u>39.54</u>
Total	7.97	7.71	8.50	23.36	25.75

Time	Sample Wind Speed Data												Average
	1/1/1999	2/1/1999	3/1/1999	4/1/1999	5/1/1999	6/1/1999	7/1/1999	8/1/1999	9/1/1999	10/1/1999	11/1/1999	12/1/1999	
100	13	11	16	12	0	12	7	0	0	12	3	9	7.92
200	12	10	17	8	0	14	8	8	0	11	0	8	8.00
300	13	7	16	10	0	9	8	11	5	10	4	8	8.42
400	7	7	14	9	0	10	8	8	6	15	3	9	8.00
500	9	6	17	11	0	0	10	6	6	11	3	11	7.50
600	11	9	19	8	3	0	12	5	0	10	4	8	7.42
700	6	8	15	7	0	0	10	6	3	11	0	9	6.25
800	9	8	12	6	5	3	8	6	6	13	3	8	7.25
900	6	10	13	7	7	5	8	6	6	12	3	9	7.67
1000	6	11	12	6	8	4	12	5	3	16	3	10	8.00
1100	9	9	11	6	3	0	7	7	9	11	10	14	8.00
1200	8	9	12	7	6	5	10	8	8	14	13	17	9.75
1300	10	9	16	7	10	8	10	11	8	12	12	18	10.92
1400	11	7	12	8	8	7	12	10	7	12	16	17	10.58
1500	11	7	16	8	9	5	10	11	7	13	17	15	10.75
1600	11	7	11	9	8	3	13	11	5	9	14	15	9.67
1700	11	4	11	9	8	3	11	13	4	6	14	10	8.67
1800	8	4	9	6	6	0	8	13	3	3	11	10	6.75
1900	9	5	7	6	6	6	8	9	0	0	9	10	6.25
2000	10	5	6	5	5	0	5	8	0	4	12	10	5.83
2100	11	7	4	5	0	4	0	7	0	0	17	11	5.50
2200	12	7	0	3	0	4	0	6	0	0	20	16	5.67
2300	13	6	0	6	0	5	4	4	0	0	14	18	5.83
2400	13	7	0	6	0	8	4	4	0	0	18	15	6.25
Sample Avg.	9.96	7.50	11.08	7.29	3.83	4.79	8.04	7.63	3.58	8.54	9.29	11.88	7.78
n-peak Avg.	9.47	7.25	9.97	6.53	5.56	3.72	8.06	8.50	4.22	8.16	11.31	12.72	7.96
ff-peak Avg.	10.94	8.00	13.31	8.81	0.38	6.94	8.00	5.88	2.31	9.31	5.25	10.19	7.44
n-peak Avail	56.81	43.50	59.81	39.19	33.38	22.31	48.38	51.00	25.31	48.94	67.88	76.31	47.73
ff-peak Avail	65.63	48.00	79.88	52.88	2.25	41.63	48.00	35.25	13.88	55.88	31.50	61.13	44.66
eighted avg.	9.96	7.50	11.08	7.29	3.83	4.79	8.04	7.63	3.58	8.54	9.29	11.88	7.78