

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

March 2007

Station: Oakland, NJ
 Latitude: 41° 02' 26" N Longitude: 74° 13' 58" W Elevation (Ground): 272 feet Time Zone: Eastern

Date	Temperature					Humidity	Deg. Days		Precip Ty 1 fog 2 hvy fog 3 thunder 4 ice plt 5 hail 6 glaze 7 duststm 8 smk, hz 9 blw snw	Snow Cvr	Precip		Pressure Adj. to Sea Level			Wind						Sun		
	Maximum	Minimum	Average	Mean	Dew Point		Mean	Heating Base 65°F			Cooling Base 65°F	Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Avg Speed	Res Speed	Res Dir	Peak			Minute	
																				Speed	Dir		Speed	Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	43.9	20.6	32.3	32.4	21	66	32	0	.....	0	0.13	0.0	30.18	29.87	30.077	0.9	0.4	105	10	S	5	163	
2	54.2	27.5	40.9	39.3	34	84	24	0	.....	0	1.79	0.0	29.87	29.29	29.514	2.0	0.8	327	16	WSW	9	226	
3	55.0	24.1	39.6	36.8	26	68	25	0	.....	0	0.00	0.0	29.65	29.50	29.590	1.7	1.5	246	20	WNW	10	320	
4	37.5	30.0	33.8	33.1	17	53	31	0	.....	0	0.00	0.0	29.81	29.60	29.697	3.0	2.7	272	20	SW	10	336	
5	38.2	18.1	28.2	30.0	12	48	37	0	.....	0	0.00	0.0	29.96	29.64	29.764	5.1	4.5	258	27	NNW	15	235	
6	19.1	8.6	13.9*	13.6	-12	31	51	0	.....	0	0.00	0.0	30.44	29.96	30.260	5.5	5.4	311	33	WNW	17	322	
7	21.4	9.5	15.4	14.7	4	62	49	0	.....	0	0.00	0.3	30.40	30.11	30.254	1.2	0.8	255	13	WSW	7	309	
8	32.4	9.5	21.0	20.5	3	48	44	0	.....	0	0.01	0.0	30.43	30.11	30.210	3.0	2.3	315	25	WSW	12	337	
9	35.9	8.1*	22.0	21.2	2	45	43	0	.....	0	0.00	0.0	30.53	30.36	30.435	1.3	0.8	214	12	W	7	154	
10	50.2	18.4	34.3	32.8	28	83	31	0	.....	0	0.11	0.0	30.37	30.05	30.196	0.3	0.3	231	7	SW	5	225	
11	46.8	30.7	38.8	39.0	30	72	26	0	.....	0	0.03	0.0	30.27	30.05	30.160	2.2	1.9	315	22	NNW	11	358	
12	58.6	27.9	43.3	42.5	23	50	21	0	.....	0	0.00	0.0	30.29	30.14	30.217	1.7	1.2	210	13	S	8	228	
13	61.8	28.7	45.3	42.8	29	63	19	0	.....	0	0.00	0.0	30.16	30.01	30.090	1.1	1.0	219	15	SW	9	220	
14	75.4*	33.1	54.3	53.0	40	67	11	0	.....	0	0.00	0.0	30.04	29.78	29.911	1.3	1.1	226	13	SW	7	217	
15	57.0	35.3	46.1	45.2	42	89	19	0	.....	0	0.37	0.0	30.18	29.76	29.925	1.6	1.2	344	20	NNW	12	331	
16	35.3	23.9	29.6	27.6	24	85	35	0	...4...9	0	0.01	9.0	30.21	29.69	30.065	4.6	4.6	13	22	N	11	8		
17	36.6	22.7	29.7	28.2	18	67	35	0	...4...9	0	0.32	T	29.75	29.55	29.619	5.0	4.3	332	27	NNW	14	359		
18	38.9	24.5	31.7	30.4	10	46	33	0	.....	0	0.03	0.0	30.17	29.75	29.907	3.7	3.2	276	29	W	13	329	
19	40.2	15.2	27.7	30.8	17	59	37	0	.....	0	0.04	0.0	30.36	30.02	30.216	2.3	2.3	223	19	SW	11	237	
20	46.8	29.8	38.3	38.2	20	54	26	0	.....	0	0.01	0.0	30.62	29.99	30.256	2.4	2.1	314	30	NNW	12	351	
21	40.2	19.9	30.1	31.4	11	45	35	0	.....	0	0.00	0.0	30.74	30.49	30.650	2.1	0.5	209	15	S	10	158	
22	62.1	35.9	49.0	46.1	39	78	16	0	.....	0	0.04	0.0	30.49	29.98	30.196	2.9	2.9	225	16	SW	10	206	
23	50.8	36.3	43.5	45.7	43	90	21	0	.....	0	0.07	0.0	30.21	29.99	30.096	0.6	0.4	271	10	N	6	349	
24	55.9	33.1	44.5	42.8	32	70	20	0	.....	0	0.11	0.0	30.35	30.15	30.243	1.5	0.8	165	15	NE	7	227	
25	53.1	34.0	43.6	43.3	36	76	21	0	.....	0	0.00	0.0	30.46	30.15	30.358	1.7	1.4	23	13	NNW	7	354	
26	54.5	29.0	41.8	41.9	35	78	23	0	.....	0	0.00	0.0	30.47	29.99	30.272	1.8	1.7	214	13	S	10	157	
27	74.6	43.1	58.9*	59.0	48	70	6	0	.....	0	0.05	0.0	30.06	29.90	29.946	2.6	1.9	329	19	NNE	10	330	
28	64.5	41.1	52.8	52.4	30	52	12	0	.....	0	0.00	0.0	30.32	30.05	30.160	2.5	2.4	349	19	NNW	11	321	
29	56.7	33.4	45.1	44.3	7	23	20	0	.....	0	0.00	0.0	30.42	30.28	30.356	2.9	2.7	334	20	NNW	11	4	
30	66.9	29.4	48.2	48.7	11	28	17	0	.....	0	0.00	0.0	30.39	30.10	30.240	2.2	1.2	317	16	N	9	330	
31	58.7	30.1	44.4	43.4	19	44	20	0	.....	0	0.00	0.0	30.25	30.13	30.189	1.3	0.3	76	13	S	6	321	
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:										---	
1523	811					840	0		Number of Days	3.12	9.3	30.74	29.29	30.099	2.3	1.2	294	33	WNW	17	322			
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip	Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
49.1	26.2	37.7	37.1	23	61.1	----	----		≥.01 inch	15	7.44	20.4	21	2	-----	----	----	---	6	6				
Number of Days							Season to Date	Snow, Ice ≥1.0 inch	1	Greatest in 24 Hours and Dates					Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			4817	0	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.92	1- 2	9.0	16	0					-							
0	3	22	0	----	----	Clear	31	Partly Cloudy	0	Cloudy	0													

NOTES:

Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Data in column 4A are (MAX+MIN) ÷ 2, whereas columns 4B, 5, 6, 15, 16, 23 are means via continuous observations for 24 hours.
 Column 5: Dew point is calculated from temperature and humidity and is continuously averaged for 24 hours.
 Data in columns 9, 10, 12 are entered manually by the station observer.
 Columns 17-18: Resultant wind is calculated by the vector sum of continuous wind observations.
 Column 23: Sunshine index is measured in Watts/m² and is continuously averaged for 24 hours.
 Data in columns 4B, 5, 6, 15, 16, 23 are updated continuously, there by achieving a "true" mean.

OBSERVER NOTES:

March featured near-average temperatures and an active first half of the month, including strong winds on the 6th. A Nor'easter dumped 9" of wind-driven snow and sleet on the 16th.

OBSERVATIONS AT 3-HOUR INTERVALS

March 2007: Oakland, NJ

Hour	Wind									Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind		
	Direction	Speed	Gust	Direction	Speed	Gust	Direction	Speed	Gust							Direction	Speed	Gust									
MAR 01																											
01											29.82	0.20	32	31	94	34	2	4		29.65	0.00	27	24	90	26	0	1
04	30.10	0.00	24	21	86	24	2	3			29.65	0.17	34	33	96	35	3	7		29.63	0.00	25	23	92	26	0	0
07	30.17	0.00	22	19	90	33	0	1			29.47	0.39	38	37	97	01	3	6		29.65	0.00	24	22	93	26	0	0
10	30.14	0.00	35	17	47	12	0	4			29.32	0.10	43	42	99	07	2	4		29.60	0.00	47	25	41	26	1	3
13	30.07	0.00	42	21	43	16	4	7			29.34	0.00	48	48	100	28	2	5		29.51	0.00	54	27	35	22	6	14
16	30.05	0.00	43	22	43	21	2	4			29.41	0.00	54	27	35	21	2	15		29.54	0.00	44	28	53	22	3	7
19	30.04	0.00	36	22	56	06	1	3			29.54	0.00	37	31	77	26	0	1		29.56	0.00	34	27	77	23	0	0
22	29.96	0.00	33	28	81	00	1	4			29.61	0.00	29	26	87	26	0	0		29.58	0.00	40	22	48	22	3	12
MAR 02																											
MAR 03																											
MAR 04																											
MAR 05																											
MAR 06																											
MAR 07																											
MAR 08																											
MAR 09																											
MAR 10																											
MAR 11																											
MAR 12																											
MAR 13																											
MAR 14																											
MAR 15																											
MAR 16																											
MAR 17																											
MAR 18																											

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62
Ended: Date	28	28	28	28	28	28	28	28	28	28	28	28
Ended: Time	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

The precipitation amounts may occur at any time during the month. The time indicated is the ending time of the interval. Date and time are not entered for trace amounts.

OBSERVATIONS AT 3-HOUR INTERVALS

March 2007: Oakland, NJ

Hour	MAR 19									MAR 20									MAR 21								
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust
01	30.19	0.00	23	13	64	24	0	3	29.99	0.00	34	32	91	23	0	0	30.64	0.00	29	8	40	00	3	9			
04	30.24	0.00	18	12	77	30	0	0	30.02	0.00	34	32	90	01	0	2	30.68	0.00	25	2	37	02	3	7			
07	30.32	0.00	16	12	84	30	0	0	30.08	0.00	34	32	93	11	0	0	30.73	0.00	21	3	46	12	0	3			
10	30.33	0.00	33	12	43	22	3	6	30.19	0.00	45	26	48	23	5	9	30.73	0.00	29	-1	28	11	0	5			
13	30.28	0.00	40	12	32	22	7	14	30.29	0.00	46	15	28	31	7	15	30.69	0.00	36	4	25	18	1	7			
16	30.19	0.00	39	12	32	21	4	7	30.39	0.00	43	10	26	01	6	12	30.62	0.00	39	16	39	22	7	12			
19	30.12	0.00	40	24	54	22	6	14	30.46	0.00	39	8	28	27	3	9	30.60	0.00	36	26	66	15	0	4			
22	30.09	0.00	37	29	72	21	1	4	30.56	0.00	33	11	40	02	1	2	30.55	0.00	36	29	75	25	1	3			
MAR 22									MAR 23									MAR 24									
01	30.47	0.00	37	30	77	22	1	3	29.99	0.00	48	48	100	22	3	4	30.22	0.00	35	33	93	21	0	1			
04	30.39	0.00	37	31	79	22	3	5	29.99	0.00	44	44	100	22	0	1	30.24	0.00	34	32	94	17	0	1			
07	30.34	0.00	37	33	86	23	2	3	30.04	0.00	43	43	100	27	1	2	30.30	0.00	36	33	90	17	0	0			
10	30.26	0.00	43	36	78	22	5	11	30.11	0.00	49	46	88	33	1	5	30.33	0.00	47	26	43	08	4	12			
13	30.15	0.00	50	40	69	23	6	12	30.13	0.00	47	45	91	21	0	4	30.31	0.00	54	29	38	05	3	5			
16	30.01	0.00	61	45	55	22	7	13	30.12	0.00	50	42	75	21	1	3	30.21	0.00	52	30	43	18	2	7			
19	30.01	0.00	53	45	75	22	2	3	30.15	0.00	47	41	79	21	0	1	30.17	0.00	46	29	52	20	4	10			
22	30.03	0.00	49	48	98	23	2	4	30.21	0.00	41	38	88	21	0	2	30.18	0.00	41	39	96	00	0	0			
MAR 25									MAR 26									MAR 27									
01	30.16	0.00	39	38	97	00	0	0	30.46	0.00	32	30	93	22	0	1	30.00	0.00	44	41	88	10	1	3			
04	30.18	0.00	41	41	99	05	0	3	30.42	0.00	30	29	96	22	0	0	29.91	0.00	48	46	94	21	0	3			
07	30.32	0.00	38	36	93	02	1	5	30.42	0.00	30	29	97	22	0	1	29.92	0.00	45	44	97	17	0	2			
10	30.43	0.00	43	36	75	03	2	6	30.36	0.00	41	35	80	22	3	9	29.93	0.00	66	53	65	24	3	4			
13	30.46	0.00	47	34	60	01	5	12	30.27	0.00	51	33	50	20	4	12	29.92	0.00	70	52	54	35	6	13			
16	30.42	0.00	52	34	50	34	2	6	30.16	0.00	53	39	58	17	1	10	29.91	0.00	74	52	46	35	5	11			
19	30.42	0.00	48	35	60	07	1	4	30.09	0.00	52	40	64	22	2	6	29.96	0.00	67	48	50	00	4	11			
22	30.45	0.00	39	34	81	22	0	2	30.03	0.00	44	40	86	21	0	0	30.04	0.00	56	47	73	34	1	3			
MAR 28									MAR 29									MAR 30									
01	30.06	0.00	52	45	78	32	4	10	30.34	0.00	40	12	31	24	2	7	30.39	0.00	38	15	39	11	0	2			
04	30.07	0.00	48	43	85	30	0	0	30.35	0.00	36	8	31	26	3	10	30.35	0.00	36	14	41	33	1	7			
07	30.10	0.00	42	40	96	30	0	1	30.40	0.00	34	5	29	24	3	7	30.34	0.00	29	19	64	09	0	2			
10	30.16	0.00	56	43	63	00	4	10	30.42	0.00	43	3	19	35	5	11	30.31	0.00	48	15	26	21	3	5			
13	30.17	0.00	61	30	31	32	4	10	30.38	0.00	50	6	16	35	6	15	30.21	0.00	62	8	12	22	4	11			
16	30.16	0.00	63	15	15	33	4	11	30.29	0.00	56	4	12	33	5	15	30.11	0.00	66	6	9	35	3	16			
19	30.23	0.00	55	13	19	35	3	6	30.31	0.00	50	7	17	31	3	11	30.11	0.00	61	8	12	34	1	10			
22	30.30	0.00	46	12	25	32	1	5	30.37	0.00	44	9	23	32	4	7	30.14	0.00	51	3	14	05	2	3			
MAR 31																											
01	30.14	0.00	42	21	43	14	1	4																			
04	30.15	0.00	33	22	65	14	0	2																			
07	30.19	0.00	30	23	75	14	0	0																			
10	30.24	0.00	44	16	32	04	0	5																			
13	30.21	0.00	53	11	19	13	3	10																			
16	30.15	0.00	58	14	17	35	4	9																			
19	30.18	0.00	48	25	40	17	3	6																			
22	30.24	0.00	39	26	60	11	0	0																			

WEATHER NOTES

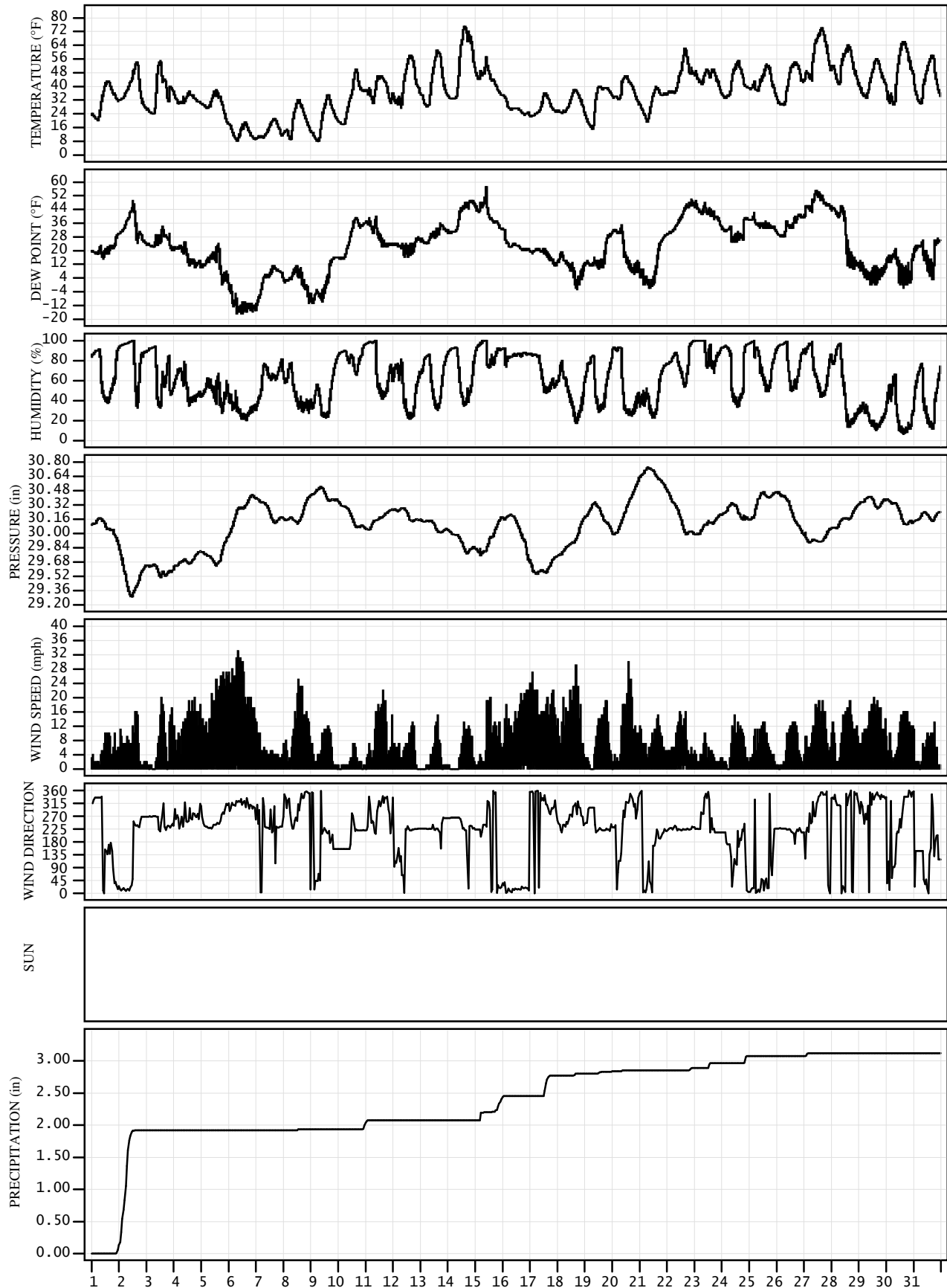
NOTES:
 Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Wind Direction: Directions are those from which the wind is blowing, indicated in tens of degrees from true north: i.e., 09 for East, 18 for South, 27 for West, and 00 or 36 for North.
 Wind Speed: The observed one-minute average speed in miles-per-hour.
 Wind Gust: The maximum instantaneous wind speed for the 10-minute period preceding the observation.
 Rainfall Rate: The instantaneous rainfall rate at the time of observation, calculated by timing consecutive 0.01" pulses from the electronic rain gauge and interpolating this rate for one hour.

SUMMARY BY HOUR

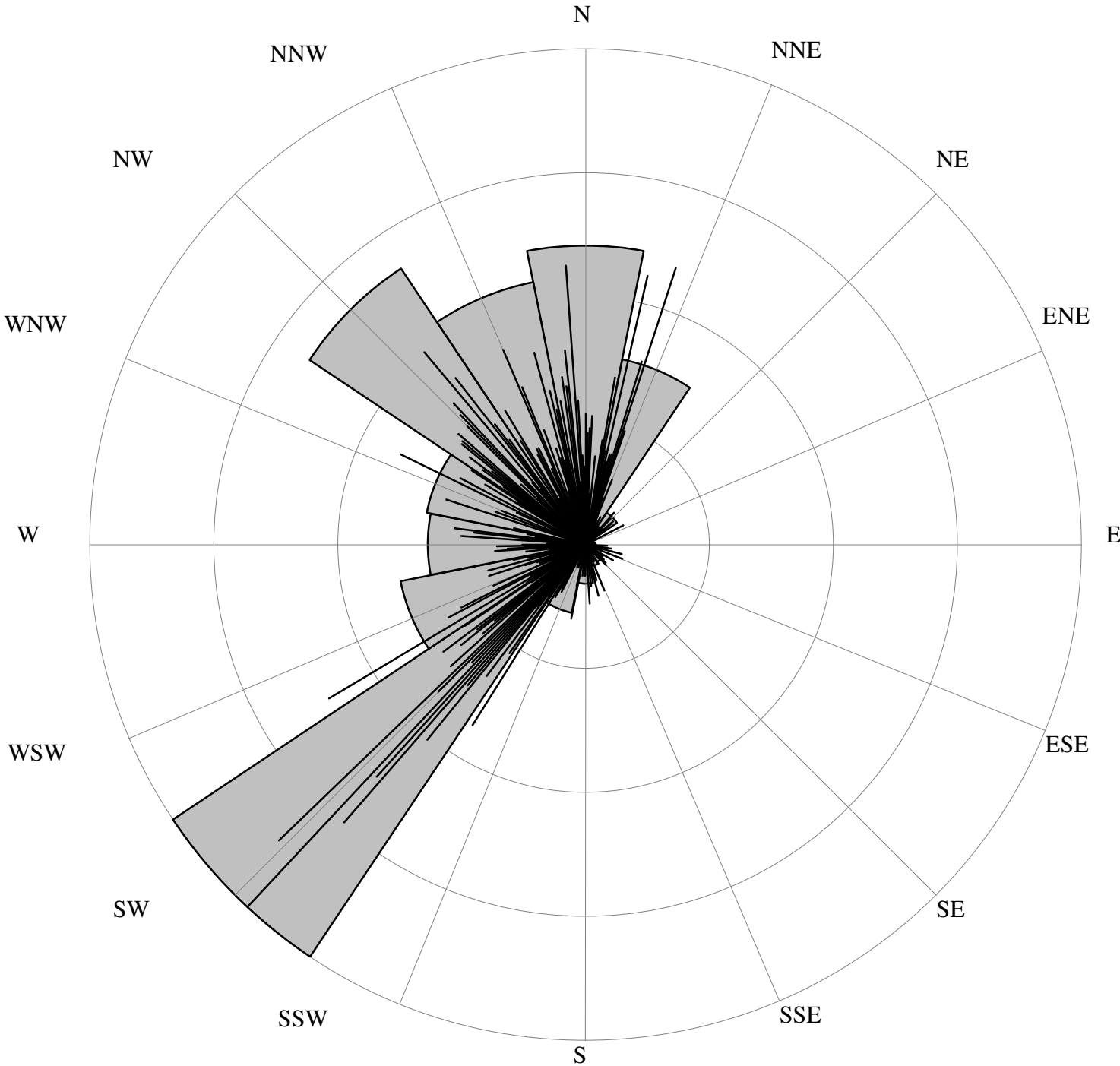
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		30.106	32	23	71	1.6	31	0.8
04		30.093	30	22	76	1.3	33	0.7
07		30.118	29	22	79	1.2	30	0.6
10		30.121	39	23	58	2.8	27	1.2
13		30.091	45	22	45	3.9	29	1.8
16		30.059	47	22	42	3.6	28	1.5
19		30.087	41	22	52	2.7	29	1.2
22		30.116	35	23	64	1.4	33	0.8

HOUR-BY-HOUR DATA

March 2007: Oakland, NJ



Wind Rose: March 2007
Oakland, NJ



Maximum direction of wind: 45.4 miles from 223°
Maximum sector of wind: 370.9 miles from SW
1729.7 total miles of wind