

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

June 2006

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	Res	Res	Peak			Minute	
																				Speed	Dir		Speed	Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	85.9	60.5	73.2	66.9	64	91	0	9	.....	0	0.20	0.0	30.09	29.84	29.978	0.2	0.1	304	13	N	7	322	
2	79.6	63.9	71.8	69.4	67	92	0	7	.....	0	1.50	0.0	29.89	29.76	29.824	0.4	0.1	340	7	SW	3	166	
3	64.8	56.7	60.8	61.7	61	96	4	0	.....	0	0.80	0.0	29.76	29.62	29.670	0.7	0.6	32	13	N	4	356	
4	65.2	54.8	60.0	59.9	55	83	5	0	.....	0	0.16	0.0	29.80	29.70	29.743	0.8	0.7	351	12	NNW	5	343	
5	71.5	53.2	62.4	60.8	55	83	2	0	.....	0	0.01	0.0	29.91	29.80	29.852	0.4	0.4	11	11	NW	4	348	
6	71.6	49.4*	60.5	56.6	53	90	4	0	.....	0	0.00	0.0	29.96	29.91	29.939	0.2	0.2	89	10	NNE	4	69	
7	59.8	55.4	57.6*	58.2	57	94	7	0	.....	0	1.29	0.0	29.91	29.65	29.752	1.9	1.9	352	17	NNE	8	343	
8	64.8	55.3	60.1	59.5	58	93	5	0	.....	0	0.22	0.0	29.77	29.73	29.747	0.2	0.1	310	7	NNW	3	324	
9	73.5	56.5	65.0	63.3	57	80	0	1	.....	0	0.21	0.0	29.75	29.59	29.680	0.9	0.7	311	12	WSW	5	219	
10	64.5	52.6	58.6	57.7	46	66	6	0	.....	0	0.00	0.0	29.70	29.56	29.610	3.1	2.9	299	22	NNW	10	319	
11	67.4	50.8	59.1	58.7	44	59	6	0	.....	0	0.00	0.0	29.83	29.64	29.707	3.5	3.1	302	23	WNW	11	337	
12	73.5	51.7	62.6	62.9	53	72	2	0	.....	0	0.00	0.0	29.91	29.82	29.861	1.0	0.1	279	11	WSW	4	312	
13	80.5	57.6	69.1	67.9	56	68	0	5	.....	0	0.00	0.0	30.00	29.91	29.949	0.9	0.5	332	11	WSW	5	330	
14	77.6	55.4	66.5	64.1	60	86	0	2	.....	0	0.12	0.0	30.00	29.78	29.920	0.4	0.2	20	15	SSE	6	344	
15	78.5	58.1	68.3	68.1	53	62	0	4	.....	0	0.00	0.0	30.04	29.76	29.881	1.7	1.6	334	16	WNW	7	331	
16	83.6	53.5	68.5	68.5	51	57	0	4	.....	0	0.00	0.0	30.13	30.03	30.085	1.2	1.1	316	17	WNW	7	335	
17	83.4	54.5	69.0	68.0	59	76	0	4	.....	0	0.00	0.0	30.14	30.03	30.086	0.3	0.3	234	11	WSW	3	218	
18	91.2*	62.6	76.9	76.7	64	69	0	12	.....	0	0.00	0.0	30.06	29.93	29.996	0.4	0.4	229	14	SSW	4	224	
19	87.4	64.5	76.0	74.5	67	79	0	11	.....	0	0.13	0.0	29.95	29.78	29.870	0.9	0.9	229	17	SSE	6	263	
20	82.2	63.2	72.7	71.8	64	79	0	8	.....	0	0.00	0.0	29.97	29.80	29.848	0.5	0.5	249	10	SW	4	218	
21	82.2	61.6	71.9	70.4	58	66	0	7	.....	0	0.00	0.0	30.07	29.95	30.027	0.7	0.4	274	11	SW	5	214	
22	87.0	59.3	73.1	72.2	65	79	0	8	.....	0	0.00	0.0	30.07	29.94	30.011	0.5	0.5	225	12	WSW	4	220	
23	86.3	66.8	76.6	74.6	66	77	0	12	.....	0	0.00	0.0	30.03	29.93	29.999	0.5	0.3	235	10	NW	5	341	
24	70.6	68.1	69.3	69.0	68	96	0	5	.....	0	0.61	0.0	30.09	30.00	30.050	0.1	0.0	42	5	NW	2	198	
25	73.3	68.6	71.0	70.3	69	96	0	6	.....	0	0.27	0.0	30.10	30.05	30.076	0.3	0.2	154	10	SE	4	218	
26	77.0	68.8	72.9	71.6	69	92	0	8	.....	0	0.15	0.0	30.13	30.04	30.069	1.1	1.1	185	19	S	5	166	
27	79.4	70.6	75.0	74.0	69	84	0	10	.....	0	0.16	0.0	30.15	30.09	30.120	2.2	2.1	190	16	SSW	7	194	
28	84.9	69.1	77.0*	74.9	70	85	0	12	.....	0	1.84	0.0	30.07	29.87	29.971	1.1	0.7	234	15	S	5	206	
29	83.8	67.3	75.6	73.9	67	80	0	11	.....	0	0.17	0.0	30.02	29.88	29.960	0.5	0.4	229	10	S	3	244	
30	79.6	61.0	70.3	68.7	57	69	0	6	.....	0	0.10	0.0	30.07	29.89	29.953	1.5	1.3	296	16	NW	7	340	
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		For the month:													---	
2311	1791					41	152			7.94	0.0	30.15	29.56	29.908	0.9	0.5	292	23	WNW	11	337			
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
77.0	59.7	68.4	67.2	60	80.1	----	----	≥.01 inch		17	16.04	18.5	27	10	-----	----	----	---	11	11				
Number of Days						Season to Date		Snow, Ice ≥1.0 inch		0	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date							
Max Temperature			Min Temperature			2221	198	Thunder		0	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog		0	2.28	2- 3	0.0	-	0						-					
1	0	0	0	----	----	Clear		30	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:

Despite a general lack of thunderstorms, June was a very wet month, with multiple heavy rain events. The mean temperature was close to normal.

OBSERVATIONS AT 3-HOUR INTERVALS

June 2006: Oakland, NJ

Hour	JUN 19									JUN 20									JUN 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		29.94	0.00	69	66	89	25	0	0		29.82	0.00	68	67	97	24	0	0		29.96	0.00	63	61	92	27	0	0
04		29.92	0.00	66	64	93	25	0	0		29.82	0.00	65	64	97	19	0	0		29.99	0.00	65	55	72	28	0	4
07		29.92	0.00	67	66	94	25	0	0		29.85	0.00	65	64	98	19	0	0		30.04	0.00	64	55	73	18	0	2
10		29.90	0.00	79	68	70	21	1	3		29.86	0.00	73	64	73	24	1	4		30.06	0.00	71	55	56	34	1	4
13		29.85	0.00	84	69	60	22	3	6		29.86	0.00	76	64	68	28	2	5		30.06	0.00	78	59	51	27	1	5
16		29.80	0.00	86	68	56	22	2	5		29.81	0.00	81	62	54	27	1	7		30.03	0.00	81	57	44	34	1	4
19		29.84	0.06	70	66	87	30	1	3		29.84	0.00	79	65	62	20	1	4		30.03	0.00	76	61	60	18	0	1
22		29.83	0.00	69	68	96	24	0	0		29.92	0.00	70	63	80	21	0	2		30.05	0.00	66	61	86	18	0	0
JUN 22									JUN 23									JUN 24									
01		30.06	0.00	61	58	93	18	0	1		30.00	0.00	72	69	91	22	1	2		30.02	0.00	70	67	88	08	0	0
04		30.03	0.00	60	58	93	18	0	1		29.96	0.00	70	66	87	05	0	1		30.02	0.00	69	67	96	08	0	0
07		30.04	0.00	62	60	92	04	0	0		30.02	0.00	70	65	83	26	2	3		30.04	0.05	69	68	97	06	0	0
10		30.03	0.00	69	66	89	31	0	0		30.02	0.00	76	66	71	20	1	4		30.06	0.00	70	68	95	06	0	0
13		30.01	0.00	81	67	63	18	1	4		30.03	0.00	80	67	66	23	1	3		30.06	0.07	69	68	96	04	0	2
16		29.97	0.00	86	69	57	24	3	7		29.99	0.00	82	66	59	30	2	4		30.07	0.00	69	67	95	04	0	0
19		29.95	0.00	82	71	69	14	0	3		29.99	0.00	75	69	82	07	0	1		30.06	0.00	69	68	96	12	0	2
22		29.99	0.00	74	70	85	22	0	0		30.01	0.00	72	66	82	08	0	0		30.08	0.00	68	67	97	13	0	0
JUN 25									JUN 26									JUN 27									
01		30.08	0.00	69	68	98	13	0	0		30.08	0.00	69	68	96	14	0	5		30.13	0.00	71	69	92	17	1	5
04		30.07	0.00	69	68	98	13	0	0		30.04	0.00	69	68	95	14	1	5		30.11	0.00	71	69	91	24	2	7
07		30.08	0.00	69	68	98	13	0	0		30.05	0.00	70	68	95	12	0	5		30.14	0.00	71	69	92	13	1	4
10		30.09	0.00	72	71	98	21	0	4		30.07	0.10	72	70	94	05	1	2		30.14	0.00	77	70	79	24	4	9
13		30.07	0.00	73	71	94	03	1	3		30.06	0.00	73	70	92	14	3	11		30.12	0.00	78	70	77	08	2	7
16		30.06	0.00	73	71	94	21	0	4		30.04	0.00	75	70	85	12	3	9		30.11	0.00	76	69	78	07	3	14
19		30.06	0.00	71	70	95	23	0	2		30.09	0.00	72	70	92	25	1	4		30.11	0.00	75	68	80	18	3	9
22		30.09	0.00	69	68	96	14	0	5		30.11	0.00	72	68	90	16	1	6		30.10	0.09	72	68	89	22	3	8
JUN 28									JUN 29									JUN 30									
01		30.07	0.00	70	69	95	23	4	9		30.02	0.00	68	67	96	27	0	0		29.91	0.00	65	61	87	21	0	0
04		30.01	0.00	70	68	94	24	0	5		29.99	0.00	67	66	96	27	0	0		29.90	0.00	66	54	67	28	2	9
07		29.90	0.08	69	69	97	00	1	6		29.98	0.00	70	69	97	21	0	1		29.94	0.00	64	56	74	25	2	5
10		29.91	0.00	73	70	90	34	2	7		30.00	0.00	76	66	72	30	0	2		29.97	0.00	68	56	65	35	4	10
13		29.97	0.00	80	69	69	02	1	6		29.97	0.00	82	67	60	24	1	5		29.95	0.00	75	57	55	27	3	11
16		29.95	0.00	83	71	67	29	1	7		29.91	0.00	81	65	59	20	1	5		29.93	0.00	78	57	48	04	1	3
19		29.96	0.00	82	70	67	23	1	6		29.88	0.00	79	66	64	26	0	3		29.96	0.00	73	55	55	28	0	1
22		30.00	0.00	72	70	92	27	0	0		29.91	0.00	70	64	82	18	0	0		30.05	0.00	62	61	96	14	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

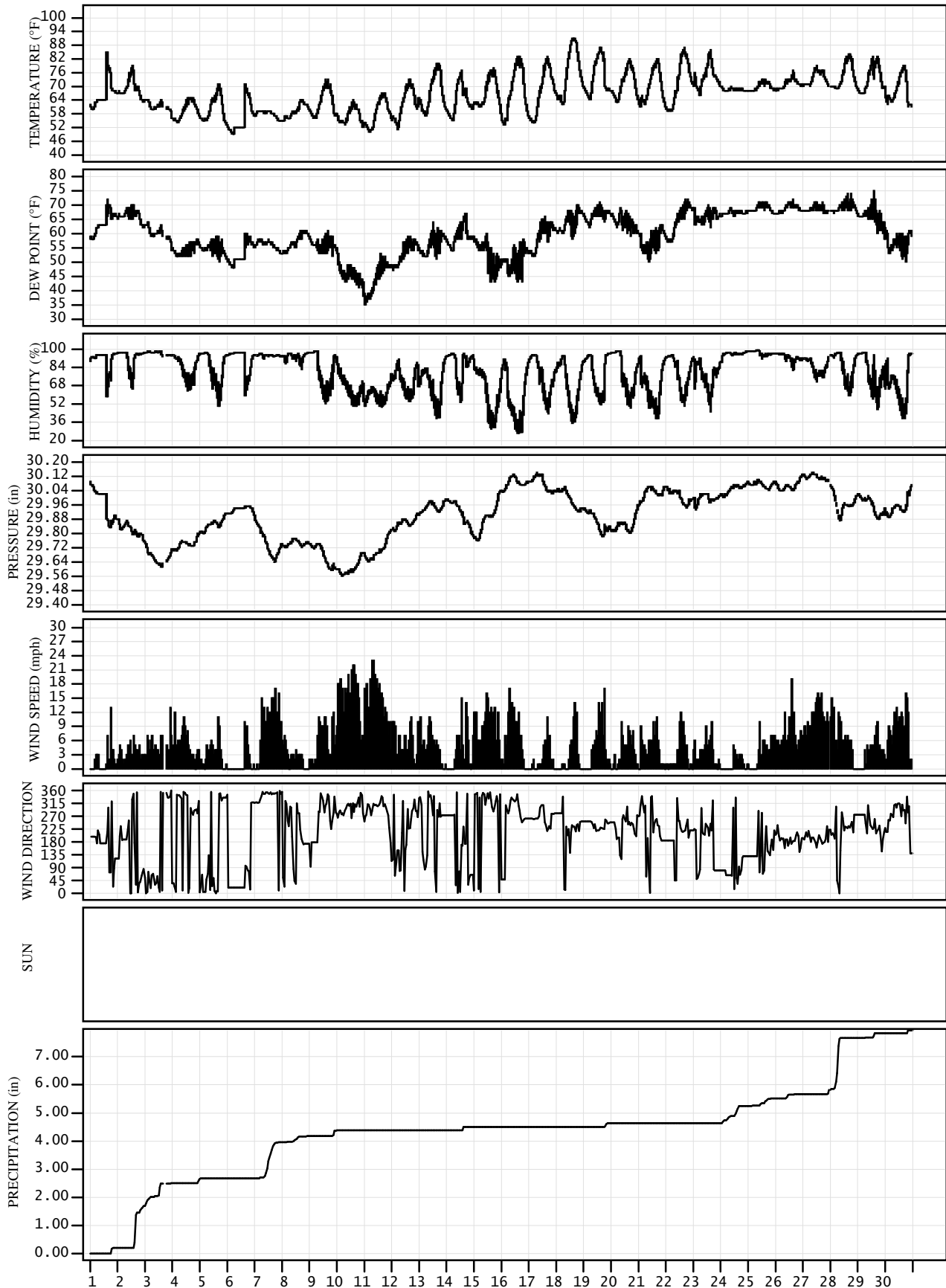
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.924	63	59	89	0.8	28	0.6
04		29.909	62	58	89	0.7	25	0.4
07		29.926	62	59	89	0.8	31	0.4
10		29.932	68	60	77	1.5	31	1.0
13		29.922	73	60	68	1.4	29	0.6
16		29.884	75	61	66	1.7	29	0.6
19		29.900	72	61	71	0.8	32	0.3
22		29.921	65	61	86	0.3	23	0.1

HOURLY PRECIPITATION (Water Equivalent)
June 2006: Oakland, NJ

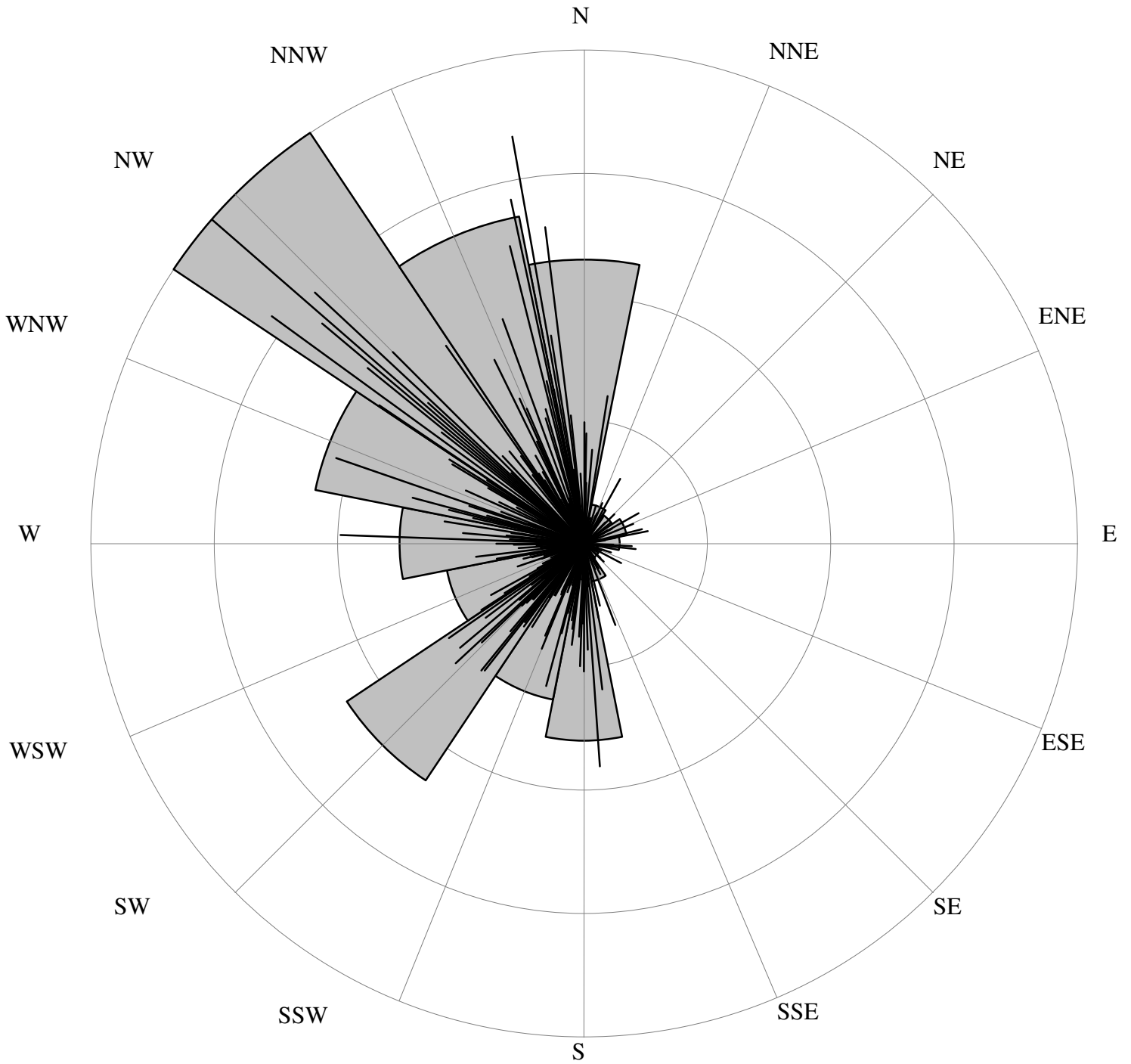
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																			0.17	0.03					02
03	0.08	0.12	0.03	0.03	0.06														0.08	0.08	0.04	0.04	0.01	03	
04									0.02			0.02	0.30	0.12	0.19	0.98	0.08					0.01	0.10	0.06	04
05	0.01																								05
06																									06
07																									07
08			0.01		0.02			0.01	0.05	0.10	0.17	0.26	0.11	0.16	0.12	0.14	0.05	0.05	0.02	0.01	0.01				08
09					0.01					0.01	0.04	0.03	0.02	0.05	0.04						0.03	0.16		0.02	09
10																									10
11																									11
12																									12
13																									13
14																									14
15															0.12										15
16																									16
17																									17
18																									18
19																									19
20																			0.02	0.08	0.02		0.01		20
21																									21
22																									22
23																									23
24		0.05	0.04																						24
25				0.01		0.05	0.06	0.04	0.02				0.08	0.08	0.09	0.10									25
26							0.01																		26
27										0.05	0.06	0.03					0.01								27
28	0.02			0.04	0.23	0.29	0.98	0.25	0.03													0.01	0.15		28
29							0.01								0.06	0.10									29
30																						0.09	0.01		30
Sum	0.11	0.17	0.08	0.08	0.32	0.35	1.06	0.30	0.12	0.16	0.32	0.36	0.51	0.47	0.75	1.23	0.19	0.08	0.21	0.30	0.15	0.22	0.31	0.09	Sum

During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA
June 2006: Oakland, NJ



Wind Rose: June 2006
Oakland, NJ



Maximum direction of wind: 17.1 miles from 311°
Maximum sector of wind: 128.5 miles from NW
669.8 total miles of wind