

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

June 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	Res	Res	Peak			Minute		Mean Index
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	89.0	59.2	74.1	72.3	60	67	0	9	.....	0	0.00	0.0	30.07	29.89	29.974	0.5	0.4	241	12	W	5	270
2	88.0	62.1	75.1	75.2	64	70	0	10	.....	0	0.00	0.0	29.94	29.78	29.864	0.5	0.5	222	10	SW	3	247
3	78.8	62.0	70.4	69.4	64	83	0	6	.....	0	0.52	0.0	29.81	29.59	29.736	0.9	0.5	133	17	NNE	6	70
4	67.4	60.1	63.8	62.6	61	96	1	0	.....	0	0.76	0.0	29.59	29.35	29.427	1.1	0.9	17	13	ENE	5	338
5	79.8	58.4	69.1	68.4	60	77	0	4	.....	0	0.03	0.0	29.65	29.42	29.468	1.0	1.0	226	15	W	6	253
6	68.3	47.6	58.0	59.3	44	58	7	0	.....	0	0.00	0.0	29.98	29.65	29.799	1.7	1.5	325	17	WSW	8	311
7	77.4	44.1*	60.8	60.0	49	71	4	0	.....	0	0.00	0.0	30.08	29.96	30.018	0.5	0.5	219	10	WSW	4	168
8	88.8	54.1	71.5	70.8	63	78	0	7	.....	0	0.00	0.0	30.00	29.78	29.878	0.5	0.5	196	12	S	5	163
9	80.5	64.2	72.4	71.0	65	82	0	8	.....	0	0.10	0.0	29.94	29.74	29.843	1.0	0.7	17	14	NNW	7	337
10	74.6	61.3	67.9	65.9	58	75	0	3	.....	0	0.00	0.0	30.02	29.92	29.976	0.4	0.3	42	9	NNW	3	326
11	81.8	58.4	70.1	70.4	59	70	0	5	.....	0	0.00	0.0	30.01	29.93	29.973	0.7	0.6	360	13	NW	5	349
12	82.4	61.6	72.0	70.7	63	77	0	7	.....	0	0.06	0.0	30.01	29.93	29.963	0.8	0.7	7	17	NNW	6	343
13	66.0	56.3	61.1	62.0	58	88	4	0	.....	0	0.01	0.0	30.13	29.97	30.029	0.6	0.5	61	11	E	4	353
14	62.9	52.6	57.8*	57.6	50	75	7	0	.....	0	0.00	0.0	30.13	30.05	30.084	0.5	0.4	351	9	N	4	352
15	76.0	49.9	63.0	62.4	54	76	2	0	.....	0	0.00	0.0	30.07	29.97	30.023	0.6	0.1	90	12	S	4	156
16	79.8	51.0	65.4	64.8	56	77	0	1	.....	0	0.00	0.0	30.02	29.89	29.947	0.5	0.4	255	15	N	6	347
17	86.3	56.6	71.5	72.5	60	69	0	7	.....	0	0.00	0.0	29.91	29.81	29.864	0.7	0.6	262	12	SSW	4	291
18	85.5	62.7	74.1	73.5	60	66	0	10	.....	0	0.00	0.0	30.01	29.86	29.951	0.7	0.1	301	10	SE	4	158
19	84.9	58.1	71.5	72.0	63	74	0	7	.....	0	0.08	0.0	30.04	29.85	29.958	0.7	0.6	204	14	ESE	5	148
20	78.1	62.1	70.1	69.7	60	74	0	5	.....	0	0.16	0.0	29.93	29.77	29.848	0.9	0.7	323	16	NW	7	316
21	81.1	51.3	66.2	65.4	55	72	0	1	.....	0	0.30	0.0	29.94	29.71	29.852	0.9	0.7	251	18	S	8	218
22	73.5	56.6	65.1	64.4	49	62	0	1	.....	0	0.00	0.0	29.85	29.75	29.783	2.0	1.9	316	19	W	9	318
23	73.9	50.5	62.2	61.8	42	51	2	0	.....	0	0.00	0.0	29.94	29.83	29.865	1.4	1.2	313	20	WNW	8	291
24	80.7	45.2	63.0	64.6	49	60	2	0	.....	0	0.00	0.0	30.09	29.94	30.016	0.7	0.6	267	10	SW	5	268
25	81.8	55.3	68.6	69.8	62	77	0	4	.....	0	0.00	0.0	30.18	30.09	30.141	0.6	0.6	227	11	W	4	153
26	92.9*	63.5	78.2	77.7	65	71	0	14	.....	0	0.00	0.0	30.20	30.09	30.151	0.4	0.4	232	10	W	4	138
27	90.1	69.1	79.6*	76.1	70	84	0	15	.....	0	1.39	0.0	30.11	29.90	30.009	0.6	0.4	246	20	WNW	9	354
28	86.5	66.9	76.7	74.5	69	85	0	12	.....	0	0.19	0.0	29.94	29.79	29.870	0.9	0.8	240	19	WNW	7	307
29	75.1	60.1	67.6	67.3	61	82	0	3	.....	0	0.00	0.0	30.00	29.86	29.937	0.3	0.2	325	11	WNW	3	344
30	79.4	53.3	66.4	66.7	51	63	0	1	.....	0	0.00	0.0	29.98	29.88	29.935	0.6	0.5	325	10	NNW	4	346
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		For the month:												---	
2391	1714					29	140			3.60	0.0	30.20	29.35	29.906	0.8	0.3	296	20	WNW	9	318		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg			
79.7	57.1	68.4	68.0	58	73.6	----	----	≥.01 inch	11	20.68	20.4	26	4	-----	----	----	---	23+	22				
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			5526	195	Thunder	0	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.40	27-28	0.0	-	0					-						
2	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.

OBSERVATIONS AT 3-HOUR INTERVALS

June 2007: Oakland, NJ

Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	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
JUN 01									JUN 02									JUN 03									
01		30.07	0.00	62	55	77	07	0	0		29.92	0.00	71	60	69	22	2	6		29.80	0.00	68	65	90	26	0	0
04		30.03	0.00	61	56	85	07	0	2		29.91	0.00	64	60	88	15	0	0		29.77	0.00	66	64	92	26	0	0
07		30.02	0.00	60	57	88	07	0	0		29.92	0.00	66	63	91	15	0	1		29.77	0.00	67	64	91	26	0	0
10		29.99	0.00	75	64	68	19	1	3		29.90	0.00	76	65	68	25	1	4		29.76	0.00	75	65	73	06	1	3
13		29.95	0.00	86	62	45	27	1	5		29.86	0.00	86	67	53	23	1	6		29.74	0.00	79	63	59	17	3	9
16		29.91	0.00	84	63	50	03	1	2		29.81	0.00	85	64	50	33	1	6		29.73	0.00	73	60	64	23	1	12
19		29.92	0.00	79	64	60	23	0	3		29.78	0.00	83	65	54	14	1	3		29.70	0.00	67	65	93	01	0	4
22		29.95	0.00	70	61	73	34	0	1		29.81	0.00	74	66	77	26	0	1		29.66	0.21	63	62	96	19	2	12
JUN 04									JUN 05									JUN 06									
01		29.57	0.05	62	62	99	03	2	13		29.44	0.00	61	61	100	11	0	1		29.68	0.00	62	53	72	01	1	4
04		29.48	0.05	61	61	100	03	1	7		29.43	0.00	59	59	100	11	0	0		29.69	0.00	56	44	65	25	1	7
07		29.43	0.00	61	61	100	11	1	10		29.43	0.00	61	61	100	11	0	1		29.74	0.00	53	44	70	11	1	7
10		29.40	0.04	60	60	100	35	1	6		29.43	0.00	70	70	100	12	0	4		29.82	0.00	58	42	55	34	3	7
13		29.37	0.00	63	62	98	35	1	8		29.43	0.00	78	60	55	23	2	13		29.80	0.00	66	45	46	31	3	14
16		29.38	0.00	65	60	84	26	0	6		29.45	0.00	75	60	59	22	2	12		29.83	0.00	66	37	34	33	5	10
19		29.38	0.00	67	62	85	17	0	1		29.52	0.00	74	59	59	23	2	7		29.87	0.00	64	42	44	24	1	6
22		29.44	0.00	62	61	96	26	0	0		29.61	0.00	68	53	58	22	2	5		29.93	0.00	51	45	80	27	0	0
JUN 07									JUN 08									JUN 09									
01		29.98	0.00	47	44	91	27	0	0		29.98	0.00	57	55	94	18	0	0		29.78	0.00	69	68	95	12	0	1
04		30.03	0.00	45	43	95	27	0	0		29.95	0.00	55	54	97	18	0	0		29.77	0.00	67	67	98	12	0	0
07		30.07	0.00	47	46	96	27	0	0		29.96	0.00	57	56	98	18	0	0		29.83	0.00	67	67	100	22	1	3
10		30.07	0.00	61	45	56	22	1	3		29.91	0.00	73	63	71	26	1	3		29.84	0.00	74	64	69	33	2	6
13		30.03	0.00	71	51	50	18	2	5		29.86	0.00	86	71	61	21	1	3		29.84	0.00	78	66	67	00	2	12
16		29.98	0.00	76	50	40	20	3	9		29.80	0.00	88	70	55	19	2	11		29.86	0.00	74	67	77	35	2	5
19		29.98	0.00	70	55	59	11	0	4		29.78	0.00	78	68	71	13	0	3		29.88	0.00	72	65	77	15	0	3
22		30.00	0.00	61	56	85	18	0	0		29.81	0.00	71	67	85	12	0	0		29.94	0.00	65	59	81	06	0	4
JUN 10									JUN 11									JUN 12									
01		29.93	0.00	64	59	84	05	0	1		29.99	0.00	60	58	91	07	0	0		29.97	0.00	68	59	73	13	0	0
04		29.93	0.00	63	57	80	05	0	0		29.98	0.00	60	58	93	07	0	0		29.94	0.00	65	60	84	10	0	1
07		29.98	0.00	64	59	84	05	0	0		30.00	0.00	61	59	96	07	0	1		29.95	0.00	65	61	88	09	1	2
10		30.01	0.00	62	59	92	04	0	2		30.00	0.00	72	60	67	03	1	6		29.97	0.00	73	62	69	33	2	17
13		30.00	0.00	68	55	62	00	0	3		29.98	0.00	79	58	50	02	1	4		29.95	0.00	79	63	58	33	2	5
16		29.97	0.00	71	56	59	03	0	3		29.94	0.00	81	61	50	33	3	5		29.94	0.00	76	66	70	13	1	3
19		29.97	0.00	69	55	62	35	0	2		29.94	0.00	78	62	58	34	0	2		29.96	0.00	75	64	67	34	0	3
22		30.00	0.00	65	57	76	07	0	0		29.95	0.00	71	63	74	34	0	0		30.01	0.00	66	65	97	03	0	0
JUN 13									JUN 14									JUN 15									
01		30.00	0.00	63	63	98	03	0	0		30.13	0.00	56	46	69	23	1	3		30.07	0.00	53	52	96	33	0	0
04		29.98	0.00	62	62	100	03	0	0		30.09	0.00	55	47	75	03	1	3		30.04	0.00	52	50	95	33	0	0
07		30.00	0.00	62	62	100	03	0	0		30.10	0.00	55	47	75	05	0	1		30.05	0.00	53	52	97	04	0	0
10		30.03	0.00	62	62	98	18	0	4		30.10	0.00	58	48	71	34	2	6		30.05	0.00	64	53	68	00	1	5
13		30.04	0.00	64	58	81	10	0	5		30.09	0.00	61	51	69	33	2	5		30.02	0.00	70	56	60	34	0	2
16		30.03	0.00	63	56	79	07	2	10		30.06	0.00	62	51	67	32	1	3		29.98	0.00	75	56	52	13	1	3
19		30.04	0.00	63	57	80	17	2	4		30.05	0.00	62	54	74	33	0	0		29.97	0.00	71	56	59	20	1	5
22		30.10	0.00	59	50	73	05	3	10		30.06	0.00	54	52	92	33	0	0		30.01	0.00	60	54	82	17	0	0
JUN 16									JUN 17									JUN 18									
01		30.01	0.00	55	53	94	17	0	0		29.91	0.00	59	57	94	34	0	0		29.87	0.00	72	64	76	28	0	2
04		29.99	0.00	52	51	96	17	0	0		29.88	0.00	58	57	96	33	0	1		29.89	0.00	68	62	81	04	0	0
07		29.97	0.00	54	53	97	17	0	0		29.89	0.00	64	58	81	22	0	3		29.95	0.00	64	62	94	15	0	0
10		29.97	0.00	69	60	73	22	1	3		29.89	0.00	76	61	61	34	1	3		29.99	0.00	76	64	67	10	1	5
13		29.94	0.00	78	59	51	26	2	6		29.86	0.00	83	58	43	27	2	7		29.98	0.00	80	60	50	34	1	4
16		29.90	0.00	75	53	47	25	1	5		29.83	0.00	85	63	48	33	1	10		29.95	0.00	84	60	45	17	2	6
19		29.91	0.00	71	61	71	25	0	1		29.81	0.00	83	63	50	22	0	4		29.97	0.00	77	60	56	19	0	3
22		29.91	0.00	64	59	85	34	0	0		29.86	0.00	71	64	77	22	0	0		30.00	0.00	67	57	69	26	0	0

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	1.41	1.41	1.41	1.42	1.43	1.44	1.46	1.51	1.55	1.57	1.61	1.64
Ended: Date	27	27	27	27	27	27	27	27	27	27	27	27
Ended: Time	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359

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 June 2007: 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		30.03	0.00	62	57	86	26	0	1		29.84	0.00	69	68	96	22	0	1		29.94	0.00	62	50	65	00	2	7
04		30.02	0.00	59	57	93	26	0	0		29.79	0.00	68	68	98	20	0	0		29.91	0.00	53	50	89	06	0	2
07		30.02	0.00	60	58	92	26	0	0		29.81	0.00	68	68	100	20	0	1		29.93	0.00	55	53	94	06	0	1
10		30.00	0.00	74	62	66	26	2	6		29.85	0.00	66	65	96	08	0	1		29.91	0.00	68	52	57	27	1	4
13		29.95	0.00	84	67	56	23	2	6		29.86	0.00	72	60	68	00	3	10		29.86	0.00	76	53	44	24	2	5
16		29.90	0.00	83	66	56	15	1	9		29.85	0.00	76	49	38	27	2	11		29.78	0.00	79	57	47	15	1	10
19		29.85	0.00	78	67	69	21	0	1		29.86	0.00	74	48	40	31	4	7		29.76	0.00	67	65	95	07	1	2
22		29.89	0.00	73	66	78	15	0	1		29.91	0.00	65	52	64	15	1	3		29.76	0.00	61	60	97	18	0	0
JUN 22									JUN 23									JUN 24									
01		29.76	0.00	60	59	97	26	0	3		29.83	0.00	56	45	66	13	0	1		29.94	0.00	59	37	43	23	2	6
04		29.77	0.00	58	57	96	30	0	2		29.85	0.00	51	45	78	26	0	2		29.98	0.00	48	41	78	30	0	0
07		29.81	0.00	58	55	89	28	1	2		29.89	0.00	55	44	66	27	0	6		30.02	0.00	49	44	83	30	0	0
10		29.79	0.00	66	52	60	29	4	17		29.89	0.00	62	44	52	00	2	11		30.04	0.00	66	44	45	27	3	6
13		29.77	0.00	70	47	43	34	5	15		29.85	0.00	70	42	36	28	3	12		30.03	0.00	74	50	43	24	2	5
16		29.76	0.00	72	49	43	35	4	13		29.83	0.00	73	41	32	28	4	10		30.02	0.00	80	53	40	22	3	7
19		29.78	0.00	68	42	39	30	4	11		29.85	0.00	70	38	31	04	0	4		30.02	0.00	78	56	46	27	0	2
22		29.85	0.00	63	42	46	30	1	7		29.91	0.00	57	41	56	00	0	1		30.07	0.00	65	58	79	24	0	0
JUN 25									JUN 26									JUN 27									
01		30.09	0.00	60	57	91	24	0	0		30.17	0.00	66	65	95	20	0	0		30.10	0.00	73	69	88	30	0	0
04		30.12	0.00	57	55	95	24	0	0		30.18	0.00	64	63	97	20	0	0		30.08	0.00	70	68	95	30	0	0
07		30.15	0.00	57	56	96	33	0	0		30.19	0.00	66	65	98	20	0	0		30.06	0.00	71	70	97	29	0	0
10		30.17	0.00	75	62	64	24	1	4		30.20	0.00	80	70	73	09	1	2		30.04	0.00	83	72	68	29	1	4
13		30.16	0.00	81	64	57	26	3	7		30.16	0.00	90	64	42	15	1	5		29.99	0.00	89	70	54	26	2	6
16		30.14	0.00	81	66	60	16	1	4		30.12	0.00	90	66	46	32	1	4		29.96	0.44	71	68	92	17	0	12
19		30.12	0.00	78	66	68	25	1	4		30.10	0.00	87	67	52	29	0	1		29.91	0.00	77	75	93	32	0	0
22		30.16	0.00	70	66	87	20	0	0		30.11	0.00	75	68	78	30	0	0		29.99	0.10	69	68	95	18	0	5
JUN 28									JUN 29									JUN 30									
01		29.92	0.00	69	69	98	23	0	2		29.87	0.00	67	66	96	32	0	2		29.97	0.00	60	58	94	32	0	2
04		29.89	0.00	69	69	100	25	0	2		29.88	0.00	66	63	92	34	0	3		29.96	0.00	55	53	93	29	0	0
07		29.89	0.00	69	69	100	17	1	3		29.94	0.00	65	64	96	26	0	0		29.97	0.00	56	52	85	12	0	1
10		29.89	0.00	77	68	74	28	3	7		29.99	0.00	64	58	79	36	0	5		29.97	0.00	69	51	53	33	2	6
13		29.87	0.00	85	69	60	24	2	6		29.98	0.00	71	59	66	27	1	2		29.94	0.00	77	46	34	05	1	7
16		29.81	0.00	86	72	62	29	2	5		29.94	0.00	74	62	65	21	1	3		29.90	0.00	78	42	28	33	1	2
19		29.85	0.04	70	68	93	24	0	3		29.93	0.00	70	60	69	32	0	0		29.88	0.00	76	53	46	21	0	6
22		29.87	0.00	69	68	97	23	0	2		29.96	0.00	62	60	92	32	0	0		29.89	0.00	62	55	77	35	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

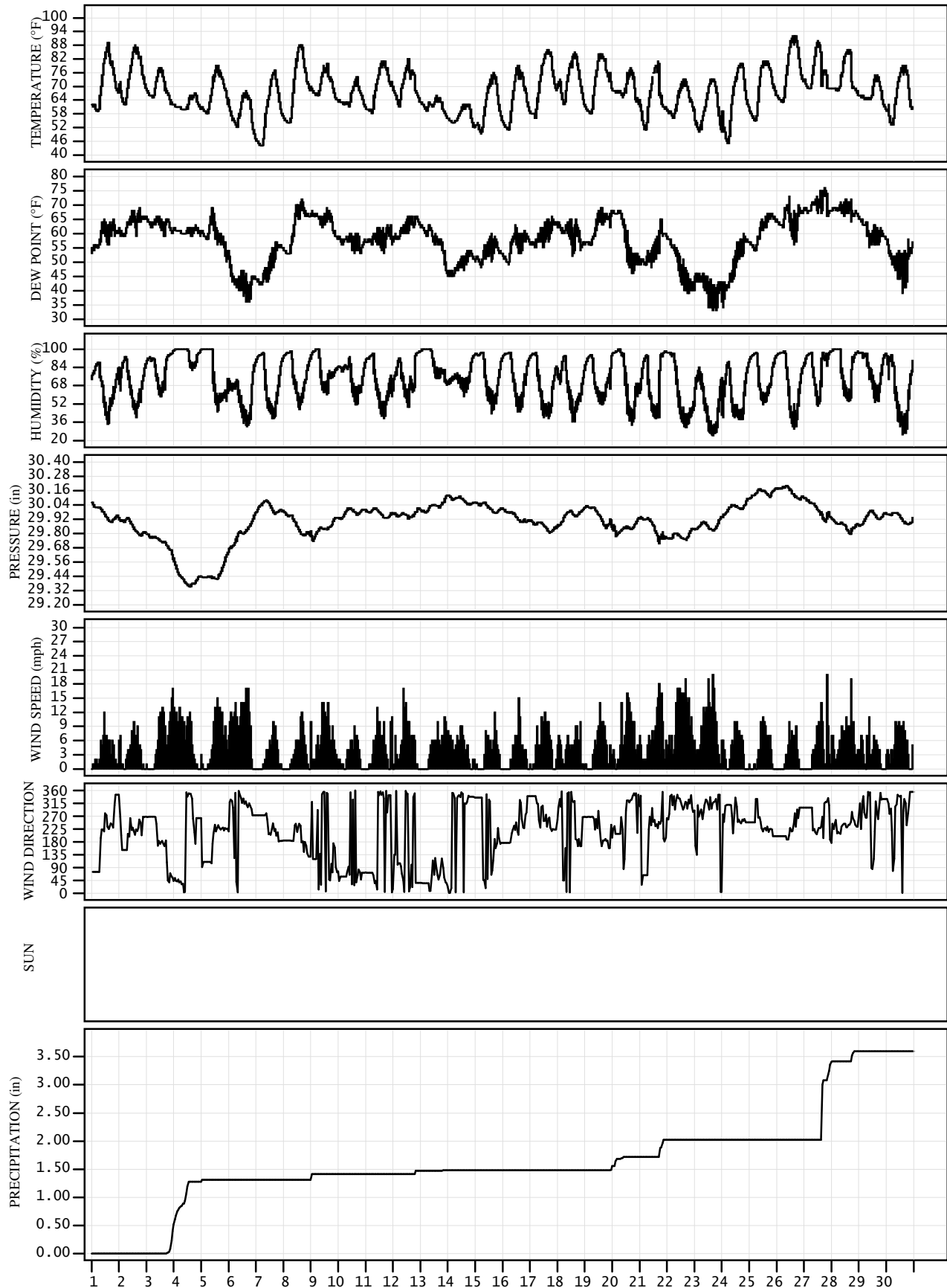
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.918	62	58	86	0.3	31	0.1
04		29.907	60	57	91	0.1	35	0.0
07		29.924	60	58	91	0.2	14	0.1
10		29.928	69	59	70	1.3	31	0.8
13		29.905	76	59	55	1.7	28	0.9
16		29.878	77	58	55	1.6	28	0.5
19		29.877	73	59	64	0.7	27	0.3
22		29.914	65	58	80	0.3	17	0.1

HOURLY PRECIPITATION (Water Equivalent)
June 2007: Oakland, NJ

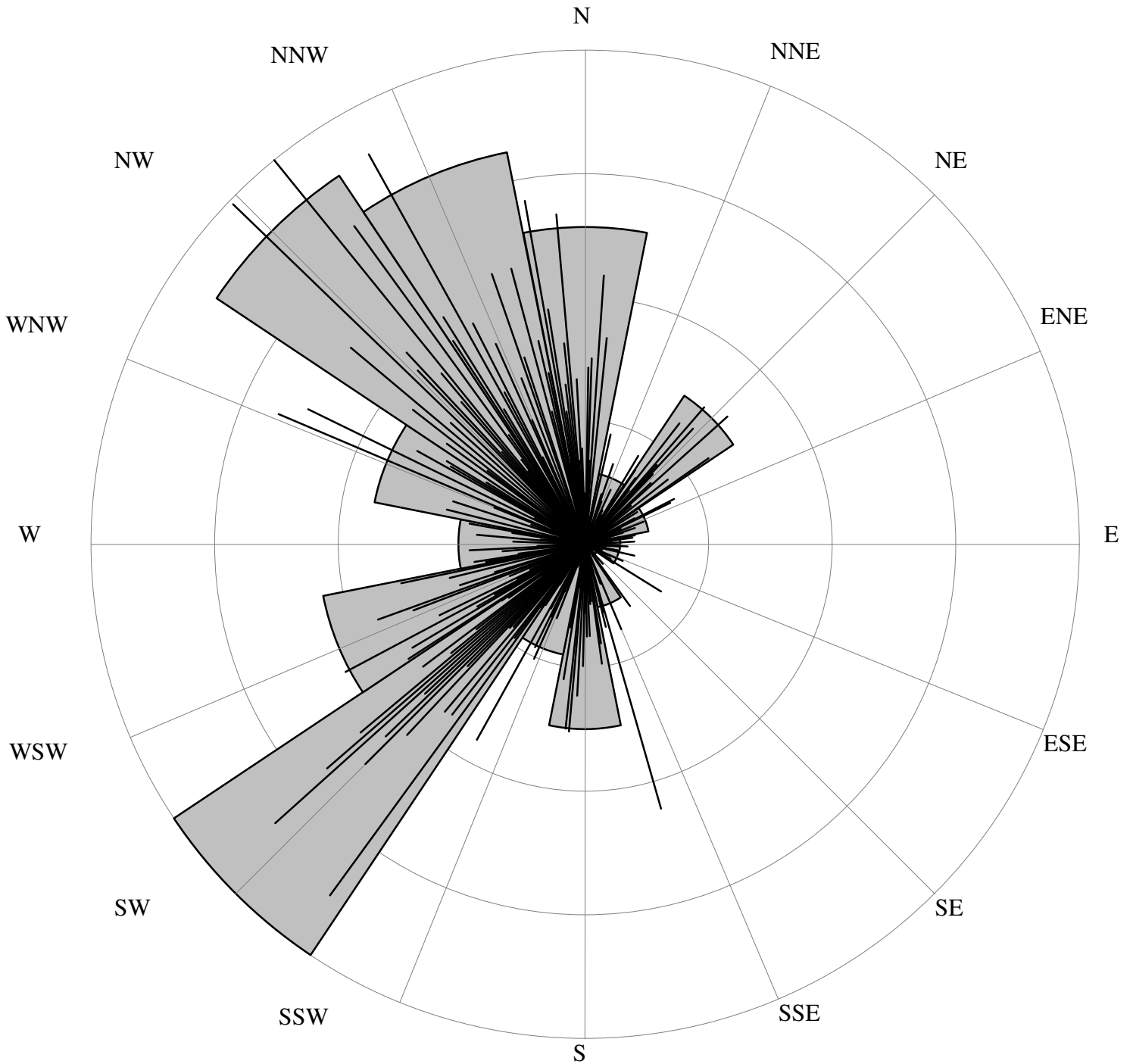
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04	0.09	0.07	0.07	0.03	0.03	0.03	0.01	0.04		0.05	0.13	0.12	0.09				0.01	0.01	0.01	0.05	0.15	0.17	0.12	04	
05	0.03																							05	
06																								06	
07																								07	
08																								08	
09	0.10																							09	
10																								10	
11																								11	
12																			0.06					12	
13																			0.01					13	
14																								14	
15																								15	
16																								16	
17																								17	
18																								18	
19																						0.01	0.07	19	
20			0.08	0.04				0.01	0.01	0.02														20	
21																	0.16	0.01	0.07	0.06				21	
22																								22	
23																								23	
24																								24	
25																								25	
26																								26	
27																0.98	0.08							27	
28	0.01															0.10	0.04	0.04	0.10	0.07	0.11	0.05		28	
29																								29	
30																								30	
Sum	0.23	0.07	0.15	0.07	0.03	0.03	0.01	0.05	0.01	0.07	0.13	0.12	0.09	0.00	0.00	0.98	0.08	0.27	0.06	0.19	0.21	0.22	0.29	0.24	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 2007: Oakland, NJ



Wind Rose: June 2007
Oakland, NJ



Maximum direction of wind: 10.2 miles from 321°
Maximum sector of wind: 90.7 miles from SW
554.4 total miles of wind