

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

April 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	
																				Speed	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	49.2	32.5	40.9	41.1	32	72	24	0	.....	0	0.06	0.0	30.24	29.99	30.160	0.8	0.5	104	10	S	5	144	
2	57.0	39.5	48.3	45.6	43	90	16	0	.....	0	0.06	0.0	30.01	29.86	29.916	0.8	0.4	108	9	SSE	5	209	
3	66.4	43.9	55.2	51.4	42	73	10	0	.....	0	0.00	0.0	30.11	30.01	30.046	1.8	1.0	164	15	SE	9	156	
4	44.3	37.5	40.9	39.5	37	91	24	0	.....	0	0.76	0.0	30.08	29.60	29.827	1.8	1.4	64	13	S	7	64	
5	43.2	30.0	36.6	37.2	24	60	28	0	.....	0	0.01	T	29.75	29.60	29.650	3.3	2.9	274	22	W	12	243	
6	39.6	28.7	34.2	33.3	16	50	30	0	.....	0	0.00	T	29.76	29.68	29.728	2.6	2.5	251	17	W	9	227	
7	41.1	23.9	32.5*	32.1	15	51	32	0	.....	0	0.00	0.0	29.75	29.57	29.666	1.9	1.6	312	15	NW	9	333	
8	40.1	27.3	33.7	33.4	17	51	31	0	.....	0	0.00	T	29.91	29.73	29.802	3.8	3.7	248	20	WSW	10	232	
9	46.2	28.7	37.5	36.4	18	48	27	0	.....	0	0.00	0.0	29.97	29.89	29.929	2.8	2.4	297	21	NW	12	350	
10	49.4	27.0	38.2	37.7	18	48	27	0	.....	0	0.00	0.0	30.10	29.95	29.999	2.2	2.0	313	18	SW	11	339	
11	52.6	23.5*	38.1	38.3	23	56	26	0	.....	0	0.00	0.0	30.17	30.02	30.099	1.5	1.4	209	14	SSE	9	156	
12	42.1	36.3	39.2	38.7	35	87	26	0	.....	0	1.06	0.0	30.02	29.61	29.762	2.2	1.9	16	15	E	8	39	
13	48.6	36.2	42.4	42.9	31	62	22	0	.....	0	0.00	0.0	29.94	29.68	29.794	4.1	3.7	262	25	N	12	242	
14	54.8	37.2	46.0	45.6	26	47	19	0	.....	0	0.00	0.0	30.00	29.90	29.946	2.5	2.3	323	19	N	12	1	
15	46.2	38.5	42.4	41.3	39	90	22	0	..3.....	0	4.03	0.0	29.92	28.95	29.553	3.4	3.3	18	24	N	13	6		
16	43.8	38.2	41.0	40.5	37	86	24	0	.....	0	0.90	0.0	29.23	28.60	28.863	5.5	5.0	334	34	NNW	17	341	
17	50.7	40.5	45.6	44.6	36	72	19	0	.....	0	0.02	0.0	29.59	29.23	29.448	5.1	5.1	356	22	NNW	13	348	
18	51.6	41.2	46.4	45.7	36	69	18	0	.....	0	0.00	0.0	29.84	29.59	29.731	4.2	4.2	1	18	NNW	12	355	
19	60.5	43.3	51.9	50.2	40	69	13	0	.....	0	0.04	0.0	30.00	29.82	29.869	1.9	1.6	4	13	N	8	353	
20	71.5	33.1	52.3	53.2	27	47	12	0	.....	0	0.00	0.0	30.09	29.98	30.018	2.4	2.2	5	19	N	10	348	
21	78.3	33.1	55.7	56.3	28	46	9	0	.....	0	0.00	0.0	30.12	30.01	30.070	1.3	1.2	340	18	N	13	5	
22	78.8	37.2	58.0	58.5	29	41	7	0	.....	0	0.00	0.0	30.17	30.08	30.121	1.2	0.9	216	14	SSE	9	206	
23	86.3*	40.8	63.6*	65.7	38	42	1	0	.....	0	0.00	0.0	30.10	29.78	29.953	3.0	3.0	224	20	SW	12	212	
24	73.0	52.5	62.8	66.7	42	43	2	0	.....	0	0.00	0.0	30.00	29.78	29.874	3.2	2.4	301	21	NW	12	358	
25	64.3	41.8	53.1	51.5	36	60	12	0	.....	0	0.21	0.0	30.07	29.92	29.999	1.5	1.2	29	15	N	9	347	
26	60.5	39.2	49.9	49.7	39	71	15	0	.....	0	0.01	0.0	30.18	30.02	30.106	1.7	1.1	177	15	SSE	8	167	
27	54.1	45.7	49.9	50.1	49	95	15	0	.....	0	0.98	0.0	30.03	29.76	29.848	0.4	0.2	36	6	S	3	163	
28	69.8	48.6	59.2	58.4	49	74	5	0	.....	0	0.00	0.0	29.78	29.65	29.712	1.3	1.2	261	15	NNW	7	232	
29	67.6	45.7	56.6	56.8	45	66	8	0	.....	0	0.00	0.0	29.86	29.70	29.755	1.9	1.6	314	19	N	10	357	
30	77.9	40.8	59.4	59.3	35	53	5	0	.....	0	0.01	0.0	29.88	29.60	29.739	3.0	2.3	303	29	NW	12	329	
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:										---	
1710	1112					529	0		Number of Days		8.15	T	30.24	28.60	29.833	2.4	1.2	314	34	NNW	17	341		
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg			
57.0	37.1	47.0	46.7	33	63.8	----	----		≥.01 inch	13	15.59	20.4	1	16	-----	----	----	---	16	16				
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			5346	0	Thunder	1	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	4.22	15-16	T	5+	0						-						
0	0	7	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

April 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
APR 01																					
01																					
04	30.24	0.00	34	27	76	11	0	1					29.97	0.00	40	39	97	35	0	3	
07	30.23	0.00	33	29	82	11	0	0					29.89	0.00	40	40	99	10	0	0	
10	30.21	0.00	37	30	76	11	0	1					29.90	0.00	41	41	100	03	0	3	
13	30.23	0.00	43	33	68	02	0	1					29.93	0.00	43	43	100	04	0	1	
16	30.19	0.00	48	37	65	20	1	3					29.90	0.00	48	44	87	11	1	4	
19	30.13	0.00	48	26	41	17	2	7					29.87	0.00	54	46	75	20	0	3	
22	30.08	0.00	43	33	68	03	2	4					29.87	0.00	54	46	74	06	2	5	
APR 02																					
01																					
04	30.02	0.00	40	38	94	02	0	3					29.99	0.00	46	42	86	06	0	5	
APR 03																					
01																					
04	30.03	0.00	45	42	92	04	0	1					30.03	0.00	45	42	92	04	0	1	
07	30.02	0.00	44	43	96	10	0	0					30.02	0.00	44	43	96	10	0	0	
10	30.06	0.00	44	43	97	10	0	0					30.06	0.00	44	43	97	10	0	0	
13	30.09	0.00	53	43	69	27	0	9					30.09	0.00	53	43	69	27	0	9	
16	30.03	0.00	62	39	43	25	2	4					30.03	0.00	62	39	43	25	2	4	
19	30.01	0.00	63	44	50	17	4	12					30.01	0.00	63	44	50	17	4	12	
22	30.04	0.00	55	44	66	16	2	9					30.04	0.00	55	44	66	16	2	9	
APR 04																					
01																					
04	30.07	0.00	43	37	80	14	3	8					29.74	0.00	31	18	58	23	6	11	
07	30.01	0.00	39	33	81	08	2	6					29.73	0.00	30	15	53	21	3	11	
10	29.95	0.00	38	34	88	02	2	4					29.74	0.00	30	15	54	22	1	6	
13	29.90	0.14	38	36	92	11	4	7					29.75	0.00	34	17	49	23	4	12	
16	29.80	0.20	40	38	95	34	1	3					29.72	0.00	37	16	42	27	2	17	
19	29.68	0.00	40	38	94	02	3	5					29.69	0.00	39	15	37	27	1	8	
22	29.65	0.00	40	39	96	35	1	5					29.71	0.00	37	16	41	28	2	5	
APR 05																					
01																					
04	29.60	0.00	40	38	90	01	3	14					29.74	0.00	31	18	58	23	6	11	
07	29.60	0.00	38	31	76	26	3	6					29.73	0.00	30	15	53	21	3	11	
10	29.63	0.00	38	27	64	27	2	7					29.74	0.00	30	15	54	22	1	6	
13	29.66	0.00	37	25	63	35	3	14					29.75	0.00	34	17	49	23	4	12	
16	29.62	0.00	41	19	41	23	6	16					29.72	0.00	37	16	42	27	2	17	
19	29.63	0.00	39	18	43	23	5	20					29.69	0.00	39	15	37	27	1	8	
22	29.68	0.00	36	15	42	26	2	21					29.71	0.00	37	16	41	28	2	5	
APR 06																					
01																					
04	29.64	0.00	40	39	96	01	0	2					29.74	0.00	32	19	58	25	3	8	
APR 07																					
01																					
04	29.74	0.00	29	19	65	22	2	3					29.74	0.00	29	19	65	22	2	3	
07	29.73	0.00	29	15	56	23	3	7					29.73	0.00	29	15	56	23	3	7	
10	29.79	0.00	28	14	56	25	1	10					29.79	0.00	28	14	56	25	1	10	
13	29.81	0.00	34	13	43	24	4	14					29.81	0.00	34	13	43	24	4	14	
16	29.80	0.00	37	14	38	28	4	19					29.80	0.00	37	14	38	28	4	19	
19	29.79	0.00	38	19	46	24	4	13					29.79	0.00	38	19	46	24	4	13	
22	29.84	0.00	37	20	49	23	3	10					29.84	0.00	37	20	49	23	3	10	
APR 08																					
01																					
04	29.91	0.00	32	19	58	22	2	5					29.91	0.00	32	19	58	22	2	5	
07	29.91	0.00	32	16	52	30	4	8					29.91	0.00	32	16	52	30	4	8	
10	29.94	0.00	32	18	57	22	1	7					29.94	0.00	32	18	57	22	1	7	
13	29.96	0.00	38	20	48	02	5	12					29.96	0.00	38	20	48	02	5	12	
16	29.93	0.00	42	20	41	35	10	19					29.93	0.00	42	20	41	35	10	19	
19	29.89	0.00	45	22	40	23	5	10					29.89	0.00	45	22	40	23	5	10	
22	29.93	0.00	40	17	39	33	5	12					29.93	0.00	40	17	39	33	5	12	
APR 09																					
01																					
04	29.96	0.00	32	17	55	27	0	0					29.96	0.00	32	17	55	27	0	0	
APR 10																					
01																					
04	29.98	0.00	34	21	60	22	1	4					29.98	0.00	34	21	60	22	1	4	
07	29.97	0.00	31	21	66	19	0	1					29.97	0.00	31	21	66	19	0	1	
10	29.99	0.00	28	21	76	09	0	2					29.99	0.00	28	21	76	09	0	2	
13	30.02	0.00	38	19	47	27	4	14					30.02	0.00	38	19	47	27	4	14	
16	29.98	0.00	45	16	31	35	4	18					29.98	0.00	45	16	31	35	4	18	
19	29.96	0.00	48	16	28	08	3	13					29.96	0.00	48	16	28	08	3	13	
22	30.00	0.00	44	14	29	28	0	8					30.00	0.00	44	14	29	28	0	8	
APR 11																					
01																					
04	30.11	0.00	28	19	67	01	0	0					30.11	0.00	28	19	67	01	0	0	
07	30.13	0.00	25	18	75	01	0	0					30.13	0.00	25	18	75	01	0	0	
10	30.16	0.00	24	20	84	01	0	0					30.16	0.00	24	20	84	01	0	0	
13	30.16	0.00	42	21	42	24	2	3					30.16	0.00	42	21	42	24	2	3	
16	30.10	0.00	49	19	30	15	2	10					30.10	0.00	49	19	30	15	2	10	
19	30.05	0.00	50	26	38	19	3	7					30.05	0.00	50	26	38	19	3	7	
22	30.04	0.00	44	26	49	20	1	11					30.04	0.00	44	26	49	20	1	11	
APR 12																					
01																					
04	30.06	0.00	41	31	69	22	0	1					30.06	0.00	41	31	69	22	0	1	
APR 13																					
01																					
04	29.94	0.00	41	27	56	26	4	14					29.94	0.00	41	27	56	26	4	14	
07	29.93	0.00	40	27	59	27	4	9					29.93	0.00	40	27	59	27	4	9	
10	29.99	0.00	38	24	56	34	2	7					29.99	0.00	38	24	56	34	2	7	
13	29.99	0.00	45	24	44	34	5	12					29.99	0.00	45	24	44	34	5	12	
16	29.97	0.00	50	25	38	33	6	11					29.97	0.00	50	25	38	33	6	11	
19	29.91	0.00	53	27	36	35	5	12					29.91	0.00	53	27	36	35	5	12	
22	29.93	0.00	51	28	40	00	3	5					29.93	0.00	51	28	40	00	3	5	
APR 14																					
01																					
04	29.94	0.00	46	31	55	34	1	2					29.94	0.00	46	31	55				

OBSERVATIONS AT 3-HOUR INTERVALS

April 2007: Oakland, NJ

Hour	APR 19									APR 20									APR 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		29.83	0.00	46	40	79	34	2	6		29.99	0.00	42	35	78	26	0	1		30.09	0.00	40	33	75	11	0	0
04		29.83	0.00	44	42	92	34	0	0		29.98	0.00	37	33	85	20	0	0		30.08	0.00	35	32	88	11	0	0
07		29.86	0.00	44	43	97	01	0	0		30.03	0.00	34	32	94	20	1	3		30.10	0.00	34	32	93	11	0	0
10		29.87	0.00	49	39	66	06	1	11		30.05	0.00	58	22	24	35	7	13		30.12	0.00	66	28	24	01	2	10
13		29.87	0.00	54	40	59	00	2	9		30.02	0.00	67	23	19	35	4	15		30.08	0.00	74	23	15	35	4	7
16		29.85	0.00	58	40	50	01	4	10		29.99	0.00	71	21	15	01	4	11		30.02	0.00	78	23	13	35	5	14
19		29.86	0.00	59	38	46	35	0	6		30.01	0.00	66	21	18	32	1	5		30.01	0.00	74	21	14	34	1	8
22		29.95	0.00	52	40	64	10	5	9		30.07	0.00	49	33	54	33	0	2		30.07	0.00	53	33	46	31	0	0
APR 22									APR 23									APR 24									
01		30.09	0.00	45	33	62	31	0	1		30.09	0.00	47	33	58	18	0	0		29.80	0.00	69	44	40	22	3	4
04		30.11	0.00	40	32	74	31	0	1		30.07	0.00	43	35	74	18	0	0		29.79	0.00	69	53	57	23	4	7
07		30.14	0.00	38	32	79	31	0	0		30.08	0.00	42	36	79	18	0	0		29.84	0.00	66	55	68	23	3	5
10		30.17	0.00	67	28	23	34	1	4		30.04	0.00	69	36	30	18	1	4		29.89	0.00	67	49	54	33	5	17
13		30.16	0.00	76	23	14	24	3	6		29.94	0.00	83	39	21	20	5	10		29.88	0.00	71	41	33	31	6	17
16		30.09	0.00	79	24	13	17	3	5		29.86	0.00	86	39	19	22	7	15		29.86	0.00	72	35	26	02	7	14
19		30.10	0.00	70	25	18	23	4	7		29.80	0.00	79	41	26	21	6	11		29.93	0.00	67	32	28	23	3	9
22		30.13	0.00	53	33	46	18	0	0		29.80	0.00	73	40	30	22	3	9		29.98	0.00	57	35	43	07	1	2
APR 25									APR 26									APR 27									
01		30.00	0.00	49	36	61	05	0	1		30.08	0.00	42	41	96	32	0	0		30.03	0.00	49	43	80	18	1	4
04		30.01	0.00	46	33	61	10	0	2		30.08	0.00	40	40	99	33	0	0		29.92	0.24	46	45	97	35	1	2
07		30.03	0.00	44	33	65	10	0	2		30.14	0.00	41	41	100	33	0	0		29.87	0.00	47	47	99	02	1	3
10		30.04	0.00	58	30	34	00	4	9		30.17	0.00	53	38	58	08	2	5		29.87	0.09	49	48	99	01	0	0
13		29.96	0.00	63	31	30	32	1	4		30.14	0.00	60	38	43	35	2	6		29.84	0.00	51	50	96	12	1	3
16		29.95	0.00	58	37	46	00	5	15		30.09	0.00	59	37	45	22	4	11		29.77	0.00	53	51	92	03	0	2
19		29.99	0.05	47	44	89	35	4	9		30.08	0.00	53	40	62	22	2	10		29.77	0.00	54	52	94	05	0	2
22		30.05	0.00	46	45	96	02	0	2		30.07	0.00	50	39	65	13	3	10		29.78	0.00	53	53	99	04	0	0
APR 28									APR 29									APR 30									
01		29.75	0.00	52	52	100	33	2	2		29.72	0.00	53	49	85	28	0	2		29.84	0.00	44	42	92	04	0	1
04		29.73	0.00	52	52	100	27	0	2		29.71	0.00	55	46	74	31	1	5		29.81	0.00	42	41	96	04	0	0
07		29.76	0.00	50	50	100	27	0	1		29.73	0.00	54	46	77	23	2	5		29.76	0.00	46	45	98	16	1	2
10		29.72	0.00	65	51	61	22	1	4		29.76	0.00	56	45	66	33	6	13		29.66	0.00	63	48	57	22	3	7
13		29.68	0.00	67	47	48	23	3	7		29.76	0.00	59	44	58	25	3	16		29.62	0.00	77	37	24	28	8	24
16		29.65	0.00	66	45	46	23	5	12		29.74	0.00	66	43	44	00	4	15		29.64	0.00	75	26	16	27	4	21
19		29.70	0.00	59	48	67	28	1	4		29.76	0.00	63	45	51	01	1	3		29.73	0.00	67	20	16	26	3	20
22		29.73	0.00	56	48	73	22	1	2		29.85	0.00	50	44	81	04	0	0		29.85	0.00	60	26	28	33	3	17

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

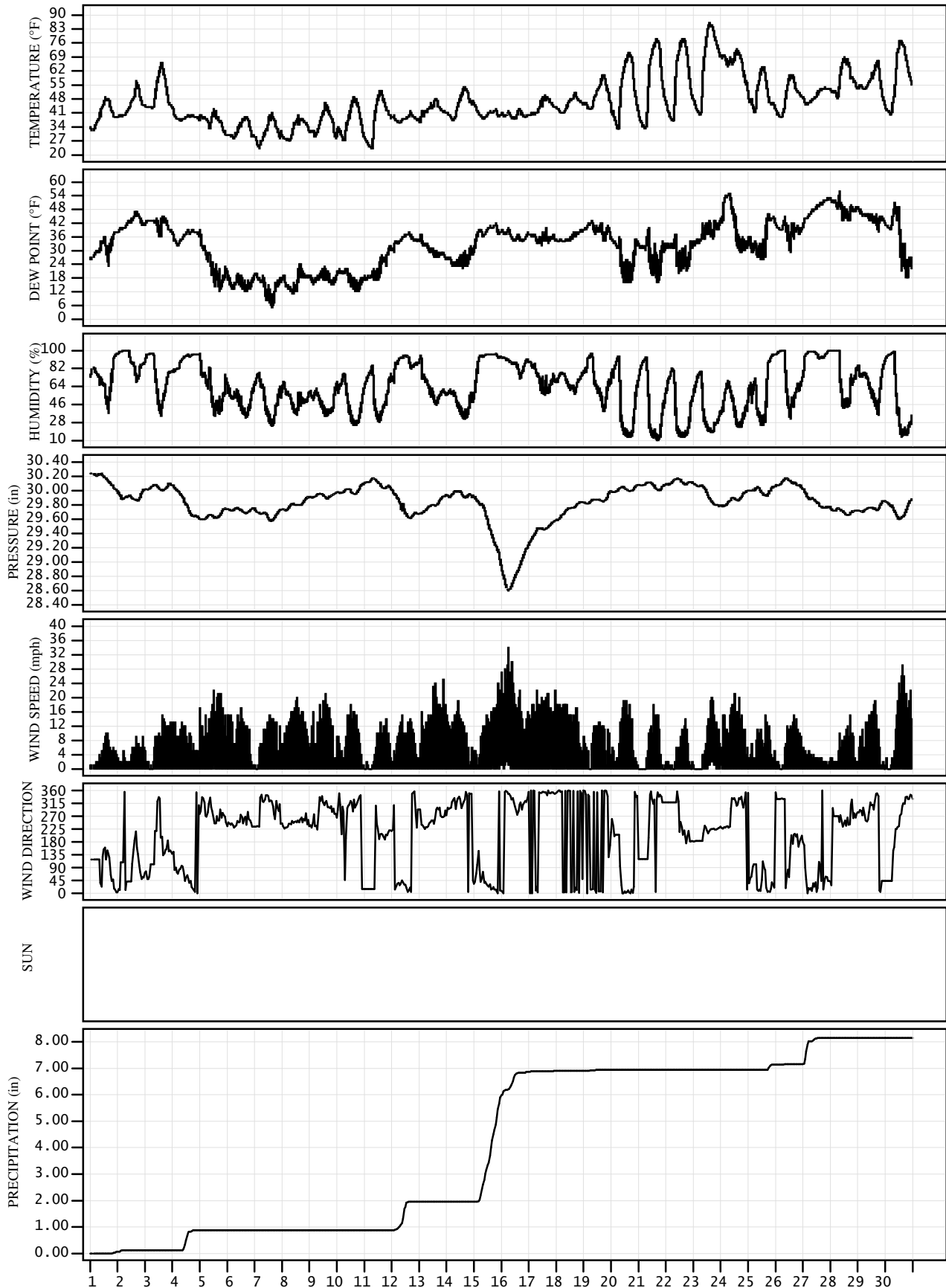
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.856	42	34	75	1.7	32	0.8
04		29.835	40	34	79	1.8	32	1.0
07		29.851	39	34	81	1.6	34	0.8
10		29.858	48	33	59	3.0	33	1.6
13		29.820	53	31	50	3.8	31	2.2
16		29.789	55	31	47	3.9	32	1.4
19		29.810	51	32	54	2.5	31	1.2
22		29.852	45	34	67	1.4	30	0.3

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

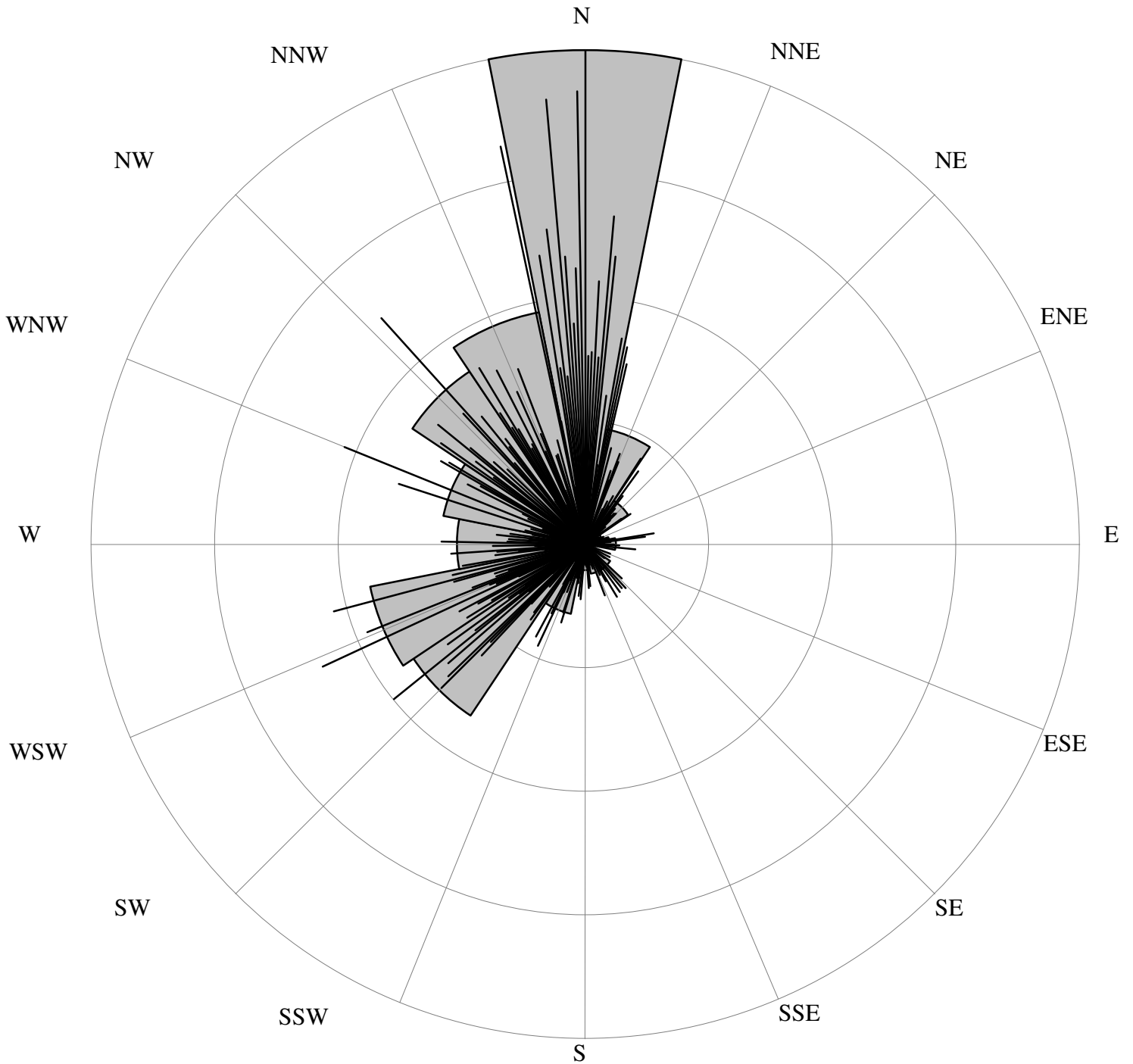
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date	
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12		
01																									01	
02		0.01	0.04	0.01																0.01	0.03			0.02		02
03																										03
04										0.05	0.17	0.16	0.18	0.13	0.01		0.03	0.02		0.01						04
05									0.01																	05
06																										06
07																										07
08																										08
09																										09
10																										10
11																										11
12			0.01	0.01	0.03	0.05	0.04	0.05	0.07	0.16	0.38	0.08	0.15	0.02	0.01											12
13																										13
14																										14
15				0.02	0.06	0.16	0.25	0.17	0.17	0.24	0.14	0.19	0.09	0.27	0.29	0.28	0.23	0.16	0.20	0.28	0.30	0.22	0.22	0.09	15	
16	0.03	0.12	0.04	0.02		0.02	0.02	0.08	0.07	0.13	0.14	0.10	0.05	0.01	0.02						0.01	0.02	0.01	0.01	16	
17		0.01																								17
18																										18
19				0.01		0.02					0.01															19
20																										20
21																										21
22																										22
23																										23
24																										24
25																	0.07	0.08	0.03	0.01	0.02					25
26								0.01																		26
27	0.01	0.18	0.30	0.24	0.13	0.01			0.02	0.05	0.03		0.01													27
28																										28
29																										29
30							0.01																			30
Sum	0.04	0.32	0.39	0.31	0.22	0.26	0.32	0.31	0.33	0.64	0.87	0.53	0.48	0.43	0.33	0.28	0.26	0.25	0.28	0.33	0.35	0.27	0.25	0.10	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
April 2007: Oakland, NJ



Wind Rose: April 2007
Oakland, NJ



Maximum direction of wind: 40.3 miles from 0°
Maximum sector of wind: 430.0 miles from N
1754.1 total miles of wind