

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### April 2008

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
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	66.1	46.1	56.1	58.4	55	89	9	0	.....	0	0.45	0.0	30.16	29.66	29.866	3.6	3.6	229	21	W	11	218		
2	55.3	32.9	44.1	42.2	16	37	21	0	.....	0	0.00	0.0	30.43	29.82	30.192	4.8	4.7	326	31	NW	16	331		
3	52.0	22.2*	37.1*	37.4	14	44	28	0	.....	0	0.05	0.0	30.51	30.27	30.416	1.4	1.2	217	14	ESE	8	190		
4	49.4	34.7	42.1	43.5	42	95	23	0	.....	0	0.41	0.0	30.27	29.67	29.869	1.2	0.4	345	11	NNW	5	4		
5	55.6	45.5	50.5	49.6	40	72	14	0	.....	0	0.07	0.0	30.10	29.68	29.888	2.3	2.1	331	20	NW	10	10		
6	50.7	41.2	46.0	45.3	35	68	19	0	.....	0	0.00	0.0	30.26	30.09	30.178	2.5	2.5	28	16	ENE	8	41		
7	49.8	38.5	44.1	43.1	35	73	20	0	.....	0	0.00	0.0	30.31	30.25	30.274	1.7	1.4	41	12	N	6	19		
8	59.3	39.5	49.4	47.1	34	63	15	0	.....	0	0.00	0.0	30.32	30.23	30.282	1.6	0.8	70	12	S	7	183		
9	61.3	32.4	46.9	46.4	39	78	18	0	.....	0	0.00	0.0	30.29	30.11	30.198	1.3	1.2	198	14	S	9	167		
10	73.5	44.1	58.8	58.7	37	54	6	0	.....	0	0.00	0.0	30.12	29.99	30.055	1.6	1.5	332	16	N	8	350		
11	61.3	47.9	54.6	53.4	40	64	10	0	.....	0	0.03	0.0	30.05	29.69	29.905	1.0	0.9	81	13	S	6	89		
12	73.5	49.4	61.5	60.5	49	71	3	0	.....	0	0.40	0.0	29.69	29.37	29.490	2.1	1.2	267	22	NNW	10	351		
13	55.9	39.9	47.9	48.9	31	51	17	0	.....	0	0.00	0.0	29.82	29.54	29.644	2.8	2.2	312	20	N	10	359		
14	56.6	30.1	43.3	44.4	21	42	21	0	.....	0	0.00	0.0	30.03	29.82	29.910	2.3	2.2	339	15	NNW	9	351		
15	60.4	30.6	45.5	46.8	19	36	19	0	.....	0	0.00	0.0	30.15	30.03	30.095	2.2	2.1	352	15	NW	8	327		
16	68.1	29.4	48.7	48.9	21	42	16	0	.....	0	0.00	0.0	30.26	30.13	30.185	1.0	0.2	115	17	S	8	172		
17	78.1	32.2	55.1	55.4	29	45	10	0	.....	0	0.00	0.0	30.19	29.92	30.052	1.0	0.2	46	15	NNW	7	349		
18	85.9*	38.6	62.3	62.2	33	42	2	0	.....	0	0.00	0.0	29.99	29.83	29.923	1.0	0.4	277	13	SSW	7	123		
19	78.3	44.8	61.6	61.3	41	51	3	0	.....	0	0.00	0.0	30.02	29.91	29.953	1.3	1.1	112	14	S	8	185		
20	65.6	50.5	58.0	55.4	47	74	6	0	.....	0	0.00	0.0	30.19	30.02	30.095	1.9	1.9	53	12	E	6	73		
21	69.4	48.0	58.7	56.9	45	67	6	0	.....	0	0.00	0.0	30.26	30.17	30.214	2.1	1.8	59	16	S	8	179		
22	70.8	39.5	55.2	54.1	45	73	9	0	.....	0	0.00	0.0	30.24	30.15	30.208	1.1	0.5	164	14	S	9	147		
23	79.9	43.6	61.8	62.5	47	64	3	0	.....	0	0.00	0.0	30.19	29.99	30.090	1.6	1.5	226	14	SW	7	225		
24	77.9	49.5	63.7*	65.5	39	42	1	0	.....	0	0.00	0.0	30.12	30.02	30.064	1.9	1.6	332	17	NNW	9	352		
25	74.6	39.3	56.9	57.7	33	46	8	0	.....	0	0.00	0.0	30.15	29.97	30.061	1.0	0.8	191	12	SSE	6	152		
26	65.3	53.2	59.3	57.0	41	59	6	0	.....	0	0.01	0.0	30.15	29.97	30.060	1.8	1.3	132	17	SW	9	186		
27	56.0	45.4	50.7	50.7	41	70	14	0	.....	0	0.05	0.0	30.19	30.11	30.142	0.6	0.5	167	9	S	4	162		
28	54.5	46.1	50.3	49.9	48	95	14	0	.....	0	1.02	0.0	30.12	29.60	29.819	0.9	0.7	32	14	NW	7	334		
29	57.0	40.5	48.8	49.5	39	71	16	0	.....	0	0.05	0.0	29.88	29.57	29.678	2.4	1.7	317	22	NW	10	330		
30	55.6	31.8	43.7	43.4	24	53	21	0	.....	0	0.00	0.0	30.12	29.88	29.989	1.6	1.3	293	18	SW	9	354		
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:										---	
1918	1207					378	0		Number of Days		2.54	0.0	30.51	29.37	30.027	1.8	0.5	336	31	NW	16	331		
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg			
63.9	40.2	52.1	51.9	36	61.0	----	----		≥.01 inch	10	15.26	28.3	3	12	-----	----	----	---	2	2				
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			5254	0	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.02	28	0.0	-	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/m<sup>2</sup> 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 2008: 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									
APR 01																											
01											29.88	0.00	50	36	57	34	5	17		30.45	0.00	30	11	45	32	0	2
04	30.14	0.00	49	49	100	23	0	3			30.01	0.00	42	25	50	34	6	18		30.47	0.00	26	14	59	24	0	0
07	30.03	0.00	53	53	100	23	1	4			30.13	0.00	36	20	53	33	2	17		30.49	0.00	22	15	73	24	0	0
10	29.98	0.00	55	55	100	21	4	7			30.19	0.00	40	20	44	32	11	25		30.51	0.00	40	9	28	23	2	3
13	29.90	0.00	58	56	94	22	4	9			30.25	0.00	45	13	28	29	8	21		30.43	0.00	48	1	14	22	3	5
16	29.81	0.00	61	58	88	21	6	15			30.28	0.00	47	8	20	30	3	17		30.35	0.00	48	17	28	22	3	10
19	29.73	0.00	66	58	76	21	5	11			30.31	0.00	43	6	21	28	1	7		30.33	0.00	43	24	46	20	4	7
22	29.69	0.00	65	56	73	20	3	7			30.41	0.00	37	6	27	29	0	6		30.31	0.00	39	26	59	18	0	1
22	29.73	0.10	59	54	85	22	5	17																			
APR 02																											
APR 03																											
APR 04																											
APR 05																											
APR 06																											
APR 07																											
APR 08																											
APR 09																											
APR 10																											
APR 11																											
APR 12																											
APR 13																											
APR 14																											
APR 15																											
APR 16																											
APR 17																											
APR 18																											
01											29.83	0.00	40	21	47	01	3	5		30.05	0.00	43	21	42	34	4	12
04	29.58	0.00	53	38	57	02	1	9			29.86	0.00	33	22	62	32	0	1		30.07	0.00	40	20	45	01	2	9
07	29.57	0.00	45	35	68	21	0	2			29.90	0.00	33	25	74	31	1	4		30.12	0.00	31	22	69	08	0	2
10	29.59	0.00	47	34	62	22	0	5			29.93	0.00	45	20	36	02	1	7		30.15	0.00	49	16	27	04	5	11
13	29.63	0.00	49	34	55	29	3	12			29.91	0.00	52	21	29	28	3	7		30.11	0.00	56	14	19	01	5	11
16	29.63	0.00	50	37	61	29	3	14			29.89	0.00	56	21	26	32	4	14		30.06	0.00	59	13	16	25	1	9
19	29.63	0.00	54	32	42	26	2	11			29.92	0.00	52	22	30	35	5	13		30.06	0.00	57	12	17	06	2	4
22	29.69	0.00	51	24	35	26	2	7			30.00	0.00	42	24	49	35	1	4		30.14	0.00	42	24	47	07	0	0
22	29.81	0.00	43	20	40	34	4	10																			
01											30.18	0.00	39	27	63	23	0	1		29.99	0.00	46	35	65	13	0	0
04	30.16	0.00	36	25	65	07	0	0			30.15	0.00	34	29	80	23	0	0		29.95	0.00	40	31	69	13	0	0
07	30.15	0.00	31	25	77	07	0	0			30.15	0.00	33	29	85	23	0	0		29.95	0.00	39	31	73	13	0	1
10	30.23	0.00	30	25	82	07	0	0			30.08	0.00	63	26	25	02	4	9		29.97	0.00	66	37	34	11	0	1
13	30.26	0.00	55	20	25	06	2	4			30.04	0.00	73	27	18	06	5	11		29.92	0.00	81	32	17	35	4	10
16	30.21	0.00	65	16	15	05	2	7			29.95	0.00	76	25	15	16	1	5		29.85	0.00	85	32	15	23	2	7
19	30.14	0.00	67	14	13	30	2	4			29.92	0.00	72	30	21	15	2	7		29.86	0.00	76	32	20	22	3	7
22	30.15	0.00	60	20	21	21	2	8			29.96	0.00	53	36	52	19	0	0		29.91	0.00	60	40	49	15	0	0
22	30.19	0.00	47	23	39	23	0	1																			

## MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.18	0.26	0.31	0.33	0.35	0.36	0.38	0.40	0.41	0.42	0.44	0.45
Ended: Date	01	01	01	01	01	01	28	28	28	28	28	28
Ended: Time	2145	2151	2152	2152	2154	2204	1952	1946	1952	2023	2046	2114

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

## April 2008: 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	29.92	0.00	52	40	64	15	0	0	30.03	0.00	51	41	68	06	0	1	30.19	0.00	53	44	72	08	2	9			
04	29.91	0.00	48	39	71	15	0	0	30.02	0.00	52	42	70	02	2	4	30.18	0.00	50	44	80	05	1	7			
07	29.95	0.00	45	39	79	15	0	0	30.06	0.00	51	47	86	03	2	5	30.21	0.00	49	45	85	04	2	7			
10	29.96	0.00	68	36	30	35	0	2	30.10	0.00	51	49	93	00	1	5	30.25	0.00	54	47	78	34	1	6			
13	29.96	0.00	75	41	29	18	2	7	30.13	0.00	57	50	76	04	1	6	30.23	0.00	67	39	35	05	4	9			
16	29.93	0.00	75	46	36	15	2	7	30.11	0.00	63	51	65	08	5	12	30.21	0.00	66	42	42	04	3	11			
19	29.96	0.00	67	47	49	17	4	7	30.13	0.00	61	50	66	09	0	4	30.21	0.00	62	49	61	03	1	6			
22	30.01	0.00	58	38	47	06	0	2	30.18	0.00	55	43	63	05	3	9											
APR 22									APR 23									APR 24									
01	30.24	0.00	47	42	84	03	0	0	30.17	0.00	49	46	92	22	0	0	30.03	0.00	62	51	67	20	1	2			
04	30.22	0.00	41	39	92	03	0	0	30.13	0.00	45	44	95	22	0	0	30.03	0.00	62	51	68	26	0	10			
07	30.23	0.00	40	39	94	03	0	0	30.15	0.00	44	44	97	22	0	0	30.08	0.00	59	43	54	08	2	10			
10	30.23	0.00	59	46	63	01	1	5	30.14	0.00	67	51	56	19	3	5	30.12	0.00	66	38	36	04	3	10			
13	30.20	0.00	69	49	50	08	4	9									30.08	0.00	74	39	28	23	4	10			
16									30.02	0.00	79	45	30	22	4	11	30.04	0.00	77	32	19	32	1	9			
19	30.16	0.00	66	49	53	19	4	7	29.99	0.00	74	48	40	21	5	8	30.02	0.00	73	24	16	29	1	4			
22	30.19	0.00	55	48	77	22	0	0	30.02	0.00	63	52	66	22	0	3	30.09	0.00	56	37	48	06	0	1			
APR 25									APR 26									APR 27									
01	30.10	0.00	47	35	62	06	0	0	29.99	0.00	54	48	81	13	0	0	30.14	0.00	52	23	32	14	1	4			
04	30.13	0.00	42	35	74	06	0	0	29.99	0.00	53	51	91	13	0	1	30.13	0.00	47	36	65	19	0	0			
07	30.15	0.00	40	36	84	06	0	0	30.05	0.00	54	49	85	11	2	11	30.16	0.00	46	44	94	19	0	1			
10	30.11	0.00	62	24	23	17	2	6	30.08	0.00	56	42	59	06	5	10	30.18	0.00	48	43	83	19	0	0			
13	30.06	0.00	71	30	22	24	3	5	30.09	0.00	61	42	50	10	2	13	30.16	0.00	53	40	61	11	0	3			
16	29.98	0.00	74	31	21	14	5	12	30.07	0.00	65	40	40	10	3	8	30.11	0.00	55	44	66	18	1	3			
19	29.98	0.00	67	32	27	22	3	6	30.07	0.00	58	33	39	14	3	7	30.12	0.00	55	44	67	09	2	4			
22	30.00	0.00	56	37	49	16	0	0	30.14	0.00	55	33	43	08	0	2	30.14	0.00	50	44	78	17	0	5			
APR 28									APR 29									APR 30									
01	30.10	0.00	48	43	81	18	2	6	29.61	0.00	53	53	100	21	2	4	29.89	0.00	37	29	72	26	0	0			
04	30.01	0.00	47	44	91	05	0	2	29.59	0.00	49	49	100	19	2	10	29.92	0.00	33	30	88	20	1	4			
07	29.93	0.00	47	45	96	02	1	5	29.62	0.00	46	44	91	18	1	6	29.98	0.00	33	32	93	20	0	2			
10	29.86	0.00	48	47	97	35	2	4	29.61	0.00	47	42	81	33	0	10	30.01	0.00	47	23	39	28	2	13			
13	29.78	0.00	50	49	97	04	2	5	29.66	0.00	46	39	75	03	2	13	30.00	0.00	53	20	27	26	6	14			
16	29.69	0.05	53	52	98	00	1	2	29.69	0.00	56	34	44	32	3	17	29.97	0.00	55	21	26	00	1	11			
19	29.64	1.10	54	54	100	33	2	14	29.78	0.00	53	30	41	33	3	13	30.01	0.00	51	17	26	35	3	12			
22	29.65	0.00	53	53	100	22	2	11	29.86	0.00	47	27	45	32	1	10	30.09	0.00	38	25	58	08	0	0			

### WEATHER NOTES

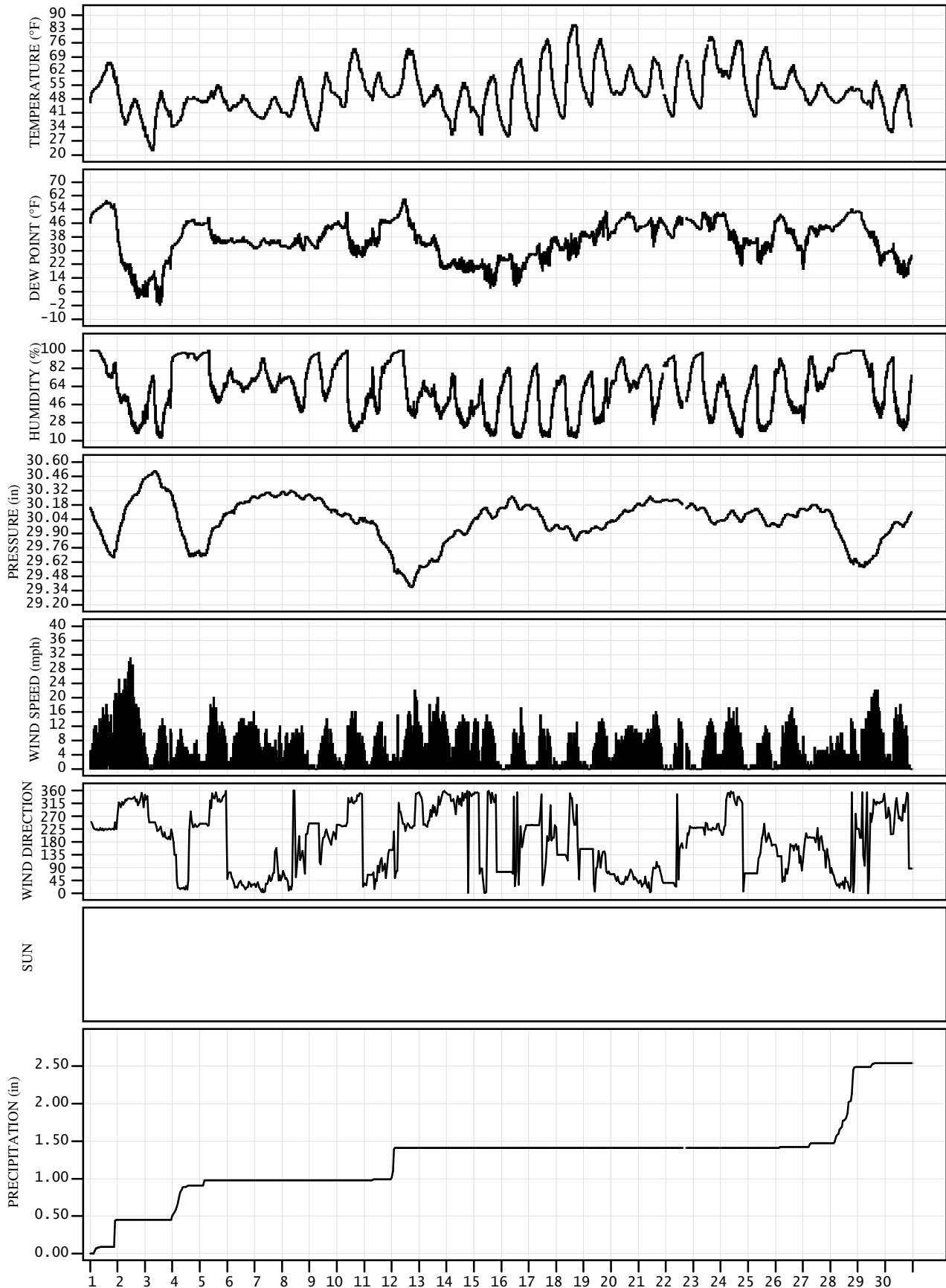
NOTES:  
 Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.  
 Wind Direction: Directions are those from which the wind is blowing, indicated in tens of degrees from true north: i.e., 09 for East, 18 for South, 27 for West, and 00 or 36 for North.  
 Wind Speed: The observed 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

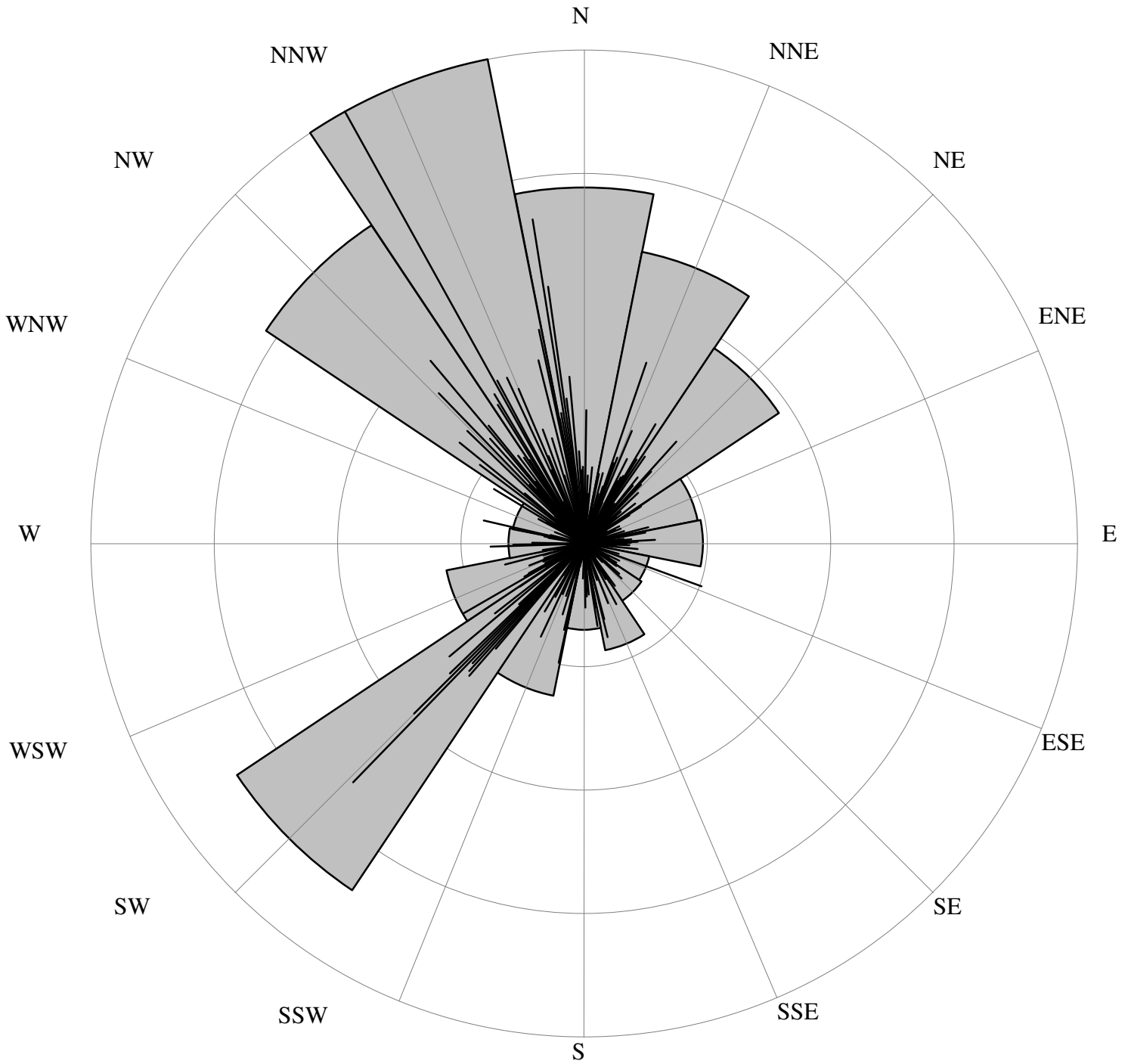
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		30.045	46	37	71	0.8	1	0.3
04		30.028	43	37	79	0.7	0	0.4
07		30.048	42	37	83	0.8	4	0.3
10		30.056	53	36	59	2.4	36	1.1
13		30.023	59	35	47	3.3	30	0.5
16		29.981	62	35	43	2.6	25	0.6
19		29.991	58	35	47	2.3	23	0.6
22		30.030	50	36	60	1.1	34	0.4



HOUR-BY-HOUR DATA  
April 2008: Oakland, NJ



Wind Rose: April 2008  
Oakland, NJ



Maximum direction of wind: 38.5 miles from 331°  
Maximum sector of wind: 198.9 miles from NNW  
1285.5 total miles of wind