

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

May 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	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	59.6	28.7*	44.1	45.5	33	66	20	0	.....	0	0.10	0.0	30.19	30.03	30.106	0.9	0.8	185	17	SSE	7	129	
2	53.6	47.7	50.6	50.4	49	94	14	0	.....	0	0.04	0.0	30.06	29.96	29.998	1.1	1.0	40	12	ENE	5	56	
3	58.7	45.1	51.9	49.5	46	88	13	0	.....	0	0.02	0.0	30.06	29.91	29.986	1.5	1.4	51	12	ENE	6	51	
4	71.1	45.2	58.1	56.0	48	79	7	0	.....	0	0.10	0.0	30.02	29.83	29.898	0.7	0.7	337	11	WNW	5	342	
5	73.0	40.1	56.5	56.2	38	59	8	0	.....	0	0.00	0.0	30.07	29.91	29.995	0.7	0.2	218	9	WNW	4	210	
6	77.0	40.2	58.6	58.8	39	58	6	0	.....	0	0.00	0.0	29.95	29.84	29.907	0.9	0.8	340	14	NNW	7	355	
7	77.6	44.1	60.8	60.3	42	56	4	0	.....	0	0.00	0.0	29.94	29.66	29.834	0.8	0.7	192	13	SW	6	156	
8	74.4	56.0	65.2	64.1	52	67	0	0	.....	0	0.03	0.0	29.72	29.56	29.619	1.0	0.8	245	14	W	5	225	
9	59.2	47.4	53.3	50.5	47	90	12	0	.....	0	1.30	0.0	29.76	29.57	29.664	0.9	0.9	13	12	SE	5	40	
10	65.5	43.5	54.5	54.7	44	72	10	0	.....	0	0.01	0.0	29.77	29.59	29.673	0.8	0.7	340	12	NNW	6	352	
11	63.7	42.2	53.0	53.4	41	63	12	0	.....	0	0.00	0.0	29.86	29.62	29.763	1.4	0.7	145	16	WSW	7	215	
12	54.5	43.9	49.2	48.8	37	66	15	0	.....	0	0.14	0.0	29.84	29.57	29.647	2.8	2.7	28	20	N	8	352	
13	72.7	43.9	58.3	56.6	34	46	6	0	.....	0	0.00	0.0	30.03	29.84	29.944	1.9	1.9	1	19	N	11	340	
14	76.0	39.1	57.5	57.4	41	61	7	0	.....	0	0.00	0.0	30.04	29.93	29.981	0.6	0.6	197	14	SW	7	184	
15	73.0	51.9	62.5	59.8	51	74	2	0	.....	0	0.00	0.0	29.94	29.83	29.877	0.4	0.4	329	14	N	8	353	
16	54.2	47.4	50.8	51.8	51	96	14	0	.....	0	1.19	0.0	29.83	29.50	29.663	0.9	0.9	4	20	NNW	8	348	
17	71.3	43.9	57.6	57.5	46	71	7	0	.....	0	0.09	0.0	29.54	29.40	29.471	1.4	1.1	256	17	NW	7	212	
18	62.9	46.0	54.5	54.2	49	83	10	0	.....	0	0.16	0.0	29.47	29.27	29.374	0.3	0.2	288	12	W	5	284	
19	58.1	39.5	48.8	49.3	36	64	16	0	.....	0	0.01	0.0	29.62	29.38	29.460	1.8	1.7	252	21	W	8	215	
20	53.5	34.7	44.1*	45.2	42	90	20	0	.....	0	0.32	0.0	29.62	29.38	29.498	0.1	0.1	233	11	W	3	278	
21	67.6	41.3	54.4	52.9	44	76	10	0	.....	0	0.02	0.0	29.51	29.37	29.424	0.9	0.8	241	18	W	8	209	
22	58.9	43.2	51.1	50.3	42	73	14	0	.....	0	0.06	0.0	29.70	29.50	29.562	1.2	0.9	295	22	NNE	8	286	
23	68.9	44.6	56.8	57.4	41	57	8	0	.....	0	0.00	0.0	29.88	29.70	29.796	2.2	2.0	309	21	NNW	8	340	
24	70.3	50.1	60.2	59.5	41	54	5	0	.....	0	0.00	0.0	29.98	29.85	29.885	1.4	1.3	329	18	NNW	8	18	
25	77.7	50.5	64.1	63.0	41	48	0	0	.....	0	0.00	0.0	30.04	29.94	29.987	1.1	0.8	313	15	WNW	5	330	
26	82.2	45.5	63.8	65.3	51	64	1	0	.....	0	0.00	0.0	29.99	29.74	29.873	1.2	1.2	222	15	WSW	6	214	
27	85.3*	56.7	71.0*	70.0	63	79	0	6	.....	0	0.26	0.0	29.98	29.70	29.788	1.0	0.6	270	17	NW	6	21	
28	68.4	46.4	57.4	57.1	36	48	8	0	.....	0	0.00	0.0	30.17	29.98	30.105	1.3	1.3	341	15	N	7	333	
29	77.2	42.8	60.0	59.9	37	47	5	0	.....	0	0.00	0.0	30.15	29.96	30.056	0.9	0.8	256	16	WNW	5	264	
30	82.0	42.9	62.5	63.6	45	58	2	0	.....	0	0.00	0.0	30.08	29.91	30.001	0.4	0.4	225	12	SW	4	167	
31	77.4	58.4	67.9	67.6	59	75	0	3	.....	0	0.07	0.0	29.92	29.55	29.724	0.7	0.7	226	12	WSW	5	224	
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		For the month:													---	
2126	1393					256	9			3.92	0.0	30.19	29.27	29.792	1.1	0.4	305	22	NNE	11	340			
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
68.6	44.9	56.7	56.3	44	68.5	----	----	≥.01 inch		17	19.18	28.3	1	18	-----	----	----	---	22	13				
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			5510	9	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.31	9-10	0.0	-	0						-						
0	0	1	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.

OBSERVATIONS AT 3-HOUR INTERVALS

May 2008: 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
MAY 01									MAY 02									MAY 03									
01		30.12	0.00	32	26	77	08	0	0		30.02	0.14	48	47	97	07	1	7		30.05	0.00	49	46	92	04	1	4
04		30.14	0.00	30	26	84	08	0	0		29.98	0.00	48	48	98	32	0	3		29.99	0.00	49	47	95	08	0	4
07		30.17	0.00	30	27	88	08	0	0		29.97	0.00	49	48	98	33	1	3		30.02	0.00	47	46	96	09	1	5
10		30.17	0.00	50	24	36	15	0	6		29.98	0.00	51	51	100	01	2	4		30.02	0.00	48	47	96	02	0	7
13		30.10	0.00	59	28	30	21	2	6		29.99	0.00	53	51	92	10	1	2		30.00	0.00	50	46	85	09	4	12
16		30.04	0.00	58	35	42	10	3	6		29.97	0.00	53	50	88	06	3	7		29.94	0.00	57	46	66	08	1	7
19		30.04	0.00	54	40	59	16	2	7		30.00	0.00	51	48	88	09	3	8		29.92	0.00	51	43	75	18	0	9
22		30.06	0.00	48	47	95	16	0	0		30.06	0.00	50	47	91	05	2	4		29.96	0.00	45	44	94	06	2	6
MAY 04									MAY 05									MAY 06									
01		29.90	0.00	46	45	96	01	1	5		30.03	0.00	50	48	95	29	0	0		29.94	0.00	45	42	89	02	0	0
04		29.84	0.00	47	46	98	35	0	3		30.03	0.00	44	42	91	34	0	0		29.93	0.00	42	40	94	02	0	0
07		29.88	0.00	48	47	98	32	1	3		30.06	0.00	41	40	96	34	0	0		29.95	0.00	42	40	96	02	0	0
10		29.90	0.00	53	51	92	05	0	2		30.05	0.00	57	35	45	15	1	5		29.94	0.00	67	37	32	24	1	2
13		29.88	0.00	66	50	57	33	2	7		30.00	0.00	66	33	29	22	3	6		29.90	0.00	74	32	21	27	3	12
16		29.87	0.00	69	49	49	30	3	10		29.93	0.00	72	29	20	35	2	5		29.85	0.00	72	39	30	34	1	9
19		29.90	0.00	67	46	47	34	1	7		29.91	0.00	67	37	32	15	0	0		29.85	0.00	70	40	33	33	0	2
22		29.99	0.00	53	49	88	29	0	1		29.94	0.00	52	43	72	02	0	0		29.90	0.00	54	42	65	28	0	0
MAY 07									MAY 08									MAY 09									
01		29.90	0.00	52	43	72	31	0	1		29.64	0.00	56	50	79	17	0	0		29.74	0.00	57	42	57	33	0	0
04		29.88	0.00	46	42	85	31	0	0		29.57	0.00	56	51	83	17	0	0		29.76	0.00	54	45	74	03	0	3
07		29.92	0.00	45	43	94	01	0	1		29.59	0.00	57	55	95	17	0	0		29.73	0.07	49	48	96	05	1	3
10		29.91	0.00	66	38	35	06	0	4		29.60	0.00	64	59	82	20	2	5		29.67	0.00	49	48	96	06	2	5
13		29.86	0.00	74	40	29	15	4	10		29.61	0.00	70	59	67	22	3	11		29.64	0.15	49	48	96	35	0	5
16		29.77	0.00	75	40	28	19	5	13		29.61	0.00	74	51	45	29	2	7		29.58	0.14	50	49	97	05	2	7
19		29.75	0.00	65	40	39	19	0	1		29.63	0.00	71	54	54	29	0	2		29.59	0.22	49	48	96	33	2	7
22		29.71	0.00	57	47	69	17	0	0		29.71	0.00	64	35	33	27	2	12		29.63	0.04	49	48	97	34	2	6
MAY 10									MAY 11									MAY 12									
01		29.62	0.00	47	46	97	32	0	3		29.79	0.00	54	40	58	29	0	3		29.58	0.00	48	37	67	00	1	11
04		29.59	0.00	44	43	98	08	0	2		29.79	0.00	46	40	81	11	0	1		29.60	0.00	48	37	65	04	4	15
07		29.64	0.00	47	47	100	06	0	2		29.85	0.00	44	42	94	12	0	1		29.60	0.00	47	39	73	02	3	11
10		29.67	0.00	56	46	69	05	2	9		29.81	0.00	57	42	58	18	3	5		29.59	0.00	46	40	79	01	3	9
13		29.67	0.00	62	41	46	16	0	4		29.78	0.00	63	44	49	25	2	11		29.58	0.00	45	42	88	00	4	14
16		29.68	0.00	63	44	50	32	0	6		29.70	0.00	59	41	52	17	3	11		29.62	0.00	53	39	58	04	2	15
19		29.73	0.00	63	43	47	30	1	5		29.69	0.00	56	40	55	19	1	6		29.71	0.00	54	34	47	35	6	11
22		29.76	0.00	52	47	83	28	0	2		29.69	0.00	50	36	60	16	0	3		29.82	0.00	49	31	51	03	1	5
MAY 13									MAY 14									MAY 15									
01		29.85	0.00	46	33	60	33	0	1		30.02	0.00	43	40	88	33	0	0		29.94	0.00	53	46	77	18	0	0
04		29.87	0.00	46	32	60	04	1	5		30.00	0.00	40	38	93	33	0	0		29.89	0.00	52	47	82	18	0	0
07		29.95	0.00	48	33	57	34	3	13		30.03	0.00	41	40	96	33	0	0		29.90	0.00	52	49	88	17	0	1
10		29.98	0.00	59	33	38	34	6	15		30.03	0.00	65	41	41	26	0	2		29.88	0.00	59	50	70	29	0	2
13		29.96	0.00	68	33	27	04	3	12		29.97	0.00	74	38	27	21	1	4		29.86	0.00	67	55	65	32	1	2
16		29.94	0.00	72	32	23	05	3	9		29.93	0.00	73	38	28	16	1	6		29.85	0.00	70	55	59	32	1	3
19		29.96	0.00	66	35	31	33	0	3		29.95	0.00	63	42	46	24	1	7		29.86	0.00	68	53	60	33	2	4
22		30.02	0.00	50	40	70	33	0	1		29.96	0.00	56	44	63	18	0	0		29.86	0.00	57	54	91	33	0	1
MAY 16									MAY 17									MAY 18									
01		29.83	0.00	53	52	96	33	0	0		29.53	0.00	48	47	97	33	1	5		29.42	0.00	56	55	97	14	0	0
04		29.78	0.00	54	51	91	01	0	0		29.50	0.00	46	44	95	31	0	2		29.42	0.00	51	50	96	29	0	1
07		29.76	0.00	54	52	96	01	0	0		29.52	0.00	46	44	91	32	1	4		29.45	0.00	52	46	80	28	0	4
10		29.72	0.00	52	51	97	08	1	4		29.50	0.00	59	42	55	25	4	9		29.42	0.00	60	41	51	35	1	5
13		29.64	0.06	52	51	98	33	1	4		29.45	0.00	69	41	36	28	2	10		29.34	0.00	60	46	59	25	0	1
16		29.56	0.11	51	50	97	08	1	7		29.41	0.00	69	46	44	22	2	9		29.30	0.04	53	52	94	22	0	2
19		29.51	0.10	50	50	98	31	1	7		29.41	0.00	66	47	50	20	2	7		29.28	0.00	55	53	91	25	0	0
22		29.52	0.00	50	49	98	02	1	5		29.44	0.00	56	53	91	14	0	0		29.34	0.00	51	49	96	28	0	1

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.07	0.10	0.12	0.14	0.15	0.15	0.19	0.23	0.26	0.30	0.36	0.39
Ended: Date	27	27	27	27	27	16	16	16	09	09	09	09
Ended: Time	1728	1729	1731	1732	1736	1620	1629	1637	1353	1345	1404	1409

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

May 2008: Oakland, NJ

Hour	MAY 19									MAY 20									MAY 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	29.38	0.00	47	45	96	30	1	3	29.61	0.00	38	35	90	21	0	0	29.39	0.00	47	46	95	23	1	4			
04	29.39	0.00	43	39	85	19	0	3	29.59	0.00	35	33	94	21	0	0	29.40	0.00	44	42	92	26	0	2			
07	29.41	0.00	42	40	93	21	1	3	29.59	0.00	39	37	96	17	0	0	29.43	0.00	44	43	98	26	0	0			
10	29.42	0.00	53	35	51	22	4	16	29.55	0.00	53	38	55	22	1	4	29.43	0.00	58	44	59	35	1	7			
13	29.44	0.00	54	32	43	27	6	19	29.46	0.08	51	48	91	12	0	1	29.39	0.00	64	42	44	20	1	6			
16	29.47	0.00	55	35	46	24	2	10	29.41	0.06	49	48	95	04	0	0	29.38	0.00	65	35	33	20	4	7			
19	29.52	0.00	55	34	45	23	4	12	29.38	0.00	50	49	97	09	0	0	29.44	0.00	54	46	75	26	0	1			
22	29.62	0.00	46	36	68	21	0	0	29.41	0.00	46	46	98	09	0	0	29.49	0.00	50	47	89	26	0	0			
MAY 22									MAY 23									MAY 24									
01	29.51	0.00	49	41	74	25	0	6	29.71	0.00	45	42	88	12	0	2	29.88	0.00	52	43	71	25	0	2			
04	29.52	0.00	44	41	89	22	0	0	29.73	0.00	50	41	72	23	1	7	29.87	0.00	52	43	71	23	0	3			
07	29.53	0.00	46	42	86	22	0	2	29.80	0.00	52	41	67	28	6	19	29.88	0.00	53	44	71	30	2	6			
10	29.52	0.00	52	45	77	20	1	5	29.82	0.00	58	42	57	31	5	15	29.88	0.00	62	42	48	35	4	9			
13	29.53	0.00	52	46	80	35	3	14	29.81	0.00	62	42	47	32	1	7	29.85	0.00	68	40	35	00	3	7			
16	29.56	0.00	58	40	51	21	2	11	29.79	0.00	67	42	40	33	4	17	29.86	0.00	68	36	31	33	4	10			
19	29.62	0.00	57	39	52	01	2	11	29.82	0.00	63	39	40	05	2	6	29.88	0.00	66	37	35	32	1	2			
22	29.69	0.00	48	42	80	21	0	2	29.87	0.00	55	40	57	02	0	3	29.95	0.00	52	44	72	32	0	1			
MAY 25									MAY 26									MAY 27									
01	29.98	0.00	57	40	54	34	2	11	29.96	0.00	49	46	88	26	0	0	29.76	0.00	72	58	62	27	0	5			
04	29.97	0.00	55	41	58	30	1	9	29.96	0.00	46	45	94	26	0	0	29.77	0.04	65	63	93	24	0	0			
07	30.01	0.00	53	42	67	16	1	2	29.99	0.00	48	47	96	26	0	0	29.79	0.00	65	64	97	24	0	0			
10	30.04	0.00	65	39	38	31	1	12	29.92	0.00	68	51	56	23	3	7	29.80	0.00	68	67	97	24	0	2			
13	30.02	0.00	72	31	22	15	2	10	29.86	0.00	77	53	44	21	3	7	29.76	0.00	82	67	62	20	3	5			
16	29.96	0.00	76	34	21	27	2	7	29.79	0.00	82	54	38	23	5	14	29.73	0.00	76	64	67	34	1	10			
19	29.94	0.00	73	44	35	26	0	2	29.76	0.00	79	50	36	23	2	7	29.78	0.00	69	67	94	32	1	9			
22	29.97	0.00	55	48	77	26	0	0	29.78	0.00	69	56	64	24	0	0	29.89	0.00	63	55	75	06	1	5			
MAY 28									MAY 29									MAY 30									
01	29.99	0.00	56	43	62	34	2	11	30.14	0.00	52	35	52	31	0	5	30.03	0.00	49	45	87	18	0	0			
04	30.03	0.00	54	40	59	30	1	5	30.11	0.00	51	27	40	29	3	6	30.02	0.00	45	43	92	18	0	0			
07	30.13	0.00	50	35	56	31	1	7	30.13	0.00	45	38	76	18	0	1	30.05	0.00	46	44	95	18	0	0			
10	30.17	0.00	55	35	46	34	4	9	30.10	0.00	62	33	33	25	2	10	30.07	0.00	69	40	35	30	0	2			
13	30.16	0.00	63	29	27	29	2	4	30.04	0.00	71	34	26	23	3	11	30.02	0.00	77	40	26	22	2	5			
16	30.10	0.00	68	34	29	30	1	11	29.97	0.00	76	37	24	28	1	10	29.96	0.00	81	44	27	32	0	6			
19	30.10	0.00	65	29	26	33	2	6	29.96	0.00	74	36	25	22	1	7	29.93	0.00	74	51	45	23	0	4			
22	30.14	0.00	49	40	70	31	0	0	30.00	0.00	55	45	70	18	0	0	29.93	0.00	65	54	68	28	0	0			
MAY 31																											
01	29.91	0.00	67	51	57	24	0	6																			
04	29.86	0.00	62	52	70	24	0	2																			
07	29.81	0.00	61	54	79	28	0	2																			
10	29.71	0.00	68	60	77	18	1	5																			
13	29.67	0.00	71	65	82	21	0	4																			
16	29.60	0.00	75	64	70	24	3	6																			
19	29.61	0.00	75	64	69	21	0	3																			
22	29.67	0.00	62	61	95	23	0	1																			

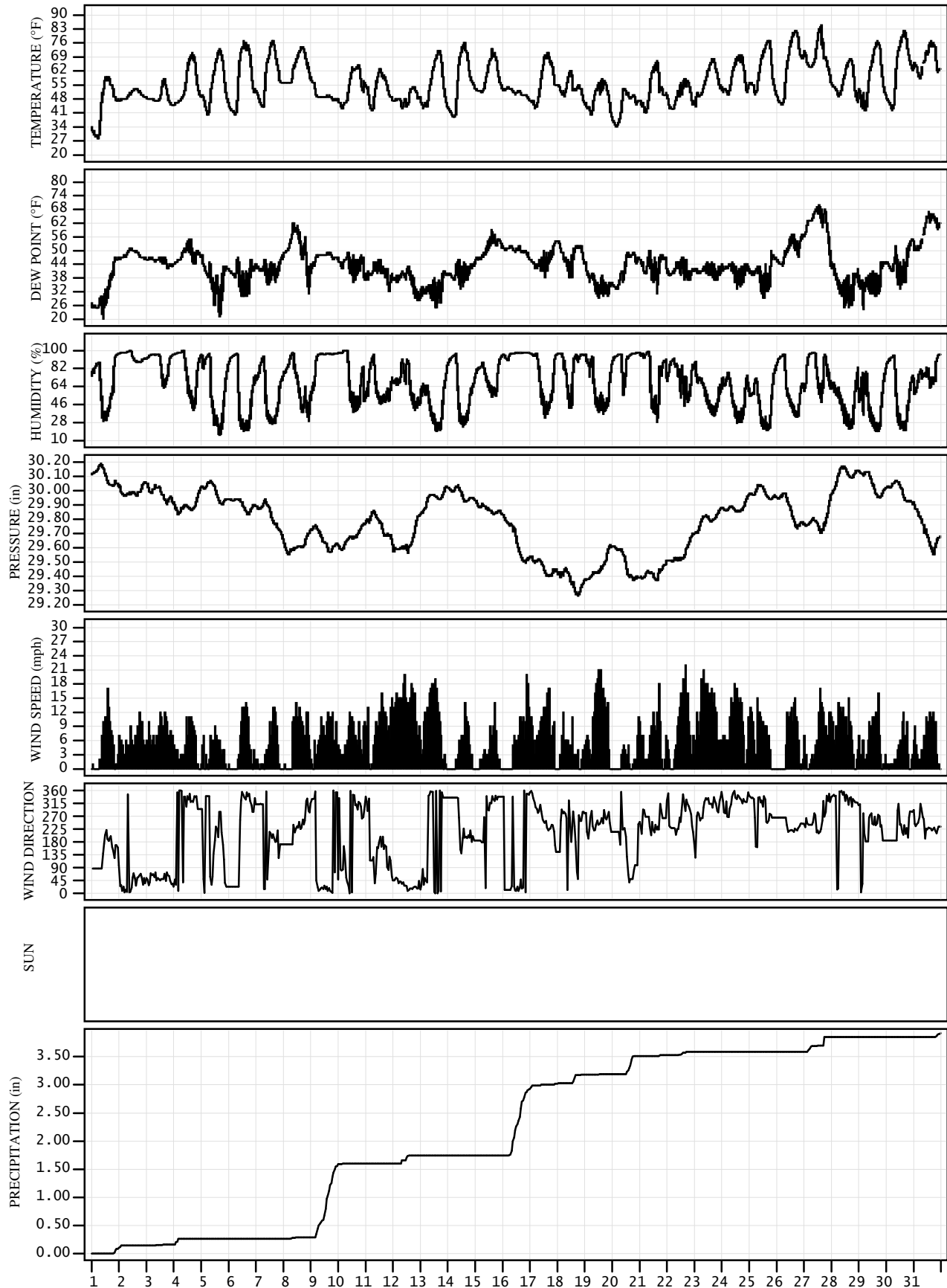
WEATHER NOTES

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.

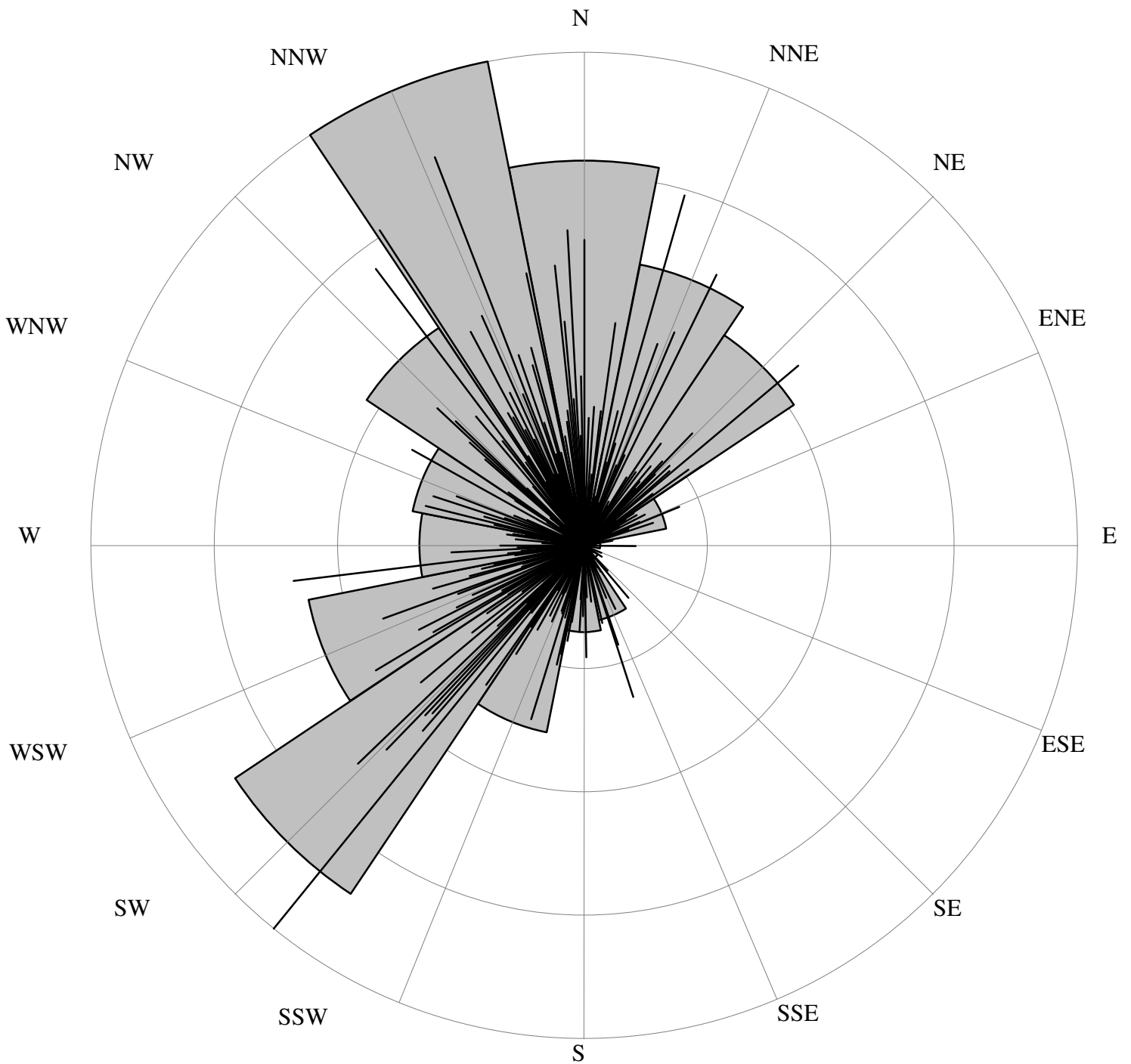
SUMMARY BY HOUR

Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.812	50	44	80	0.4	35	0.3
04		29.799	48	43	83	0.4	34	0.2
07		29.825	48	44	87	0.7	32	0.4
10		29.816	58	43	61	1.8	31	0.7
13		29.782	64	43	53	2.1	26	0.7
16		29.746	66	44	50	2.1	27	0.5
19		29.755	63	44	56	1.2	31	0.4
22		29.799	53	46	77	0.4	2	0.2

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



Wind Rose: May 2008
Oakland, NJ



Maximum direction of wind: 16.6 miles from 219°
Maximum sector of wind: 124.3 miles from NNW
804.9 total miles of wind