

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 2010

Station: Oakland, NJ

Latitude: 41° 02' 28" N Longitude: 74° 13' 52" W Elevation (Ground): 280 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	34.4	15.0	24.7	26.1	11	55	40	0	.....	0	0.00	0.0	30.29	30.10	30.203	2.7	2.4	261	20	W	13	264	
2	32.4	17.0	24.7	26.0	16	67	40	0	.....	0	0.00	0.0	30.29	30.09	30.211	0.4	0.2	157	9	WSW	5	237	
3	37.4	25.8	31.6	30.4	24	79	33	0	.....	0	0.15	2.2	30.15	29.99	30.058	1.3	1.2	312	17	NW	8	337	
4	35.4	24.4	29.9	29.5	13	50	35	0	.....	0	0.00	0.0	30.37	30.14	30.287	2.7	2.5	317	22	W	11	308	
5	34.9	20.7	27.8	28.8	18	65	37	0	.....	0	0.00	0.0	30.32	29.97	30.196	0.6	0.4	339	11	N	8	2	
6	30.7	17.2	24.0	24.5	11	55	41	0	.....	0	0.00	0.0	29.97	29.66	29.778	3.7	3.6	32	22	NE	12	40	
7	32.1	13.9*	23.0*	21.6	9	58	42	0	.....	0	0.00	0.0	29.93	29.80	29.875	4.2	3.8	340	33	W	15	346	
8	35.8	20.9	28.3	27.2	15	59	36	0	.....	0	0.00	0.0	30.05	29.90	29.946	5.2	5.1	309	30	NW	14	278	
9	41.8	26.0	33.9	33.1	21	62	31	0	.....	0	0.00	0.0	30.08	29.76	29.969	1.6	0.8	279	19	WNW	9	350	
10	34.0	28.8	31.4	30.7	29	92	33	0	.....	0	0.00	13.2	29.76	29.08	29.329	3.0	2.8	12	23	N	11	346	
11	35.8	25.4	30.6	30.4	18	62	34	0	.....	0	0.41	0.0	29.73	29.33	29.579	5.5	5.3	333	29	NW	15	339	
12	36.5	23.9	30.2	28.8	15	58	34	0	.....	0	0.16	0.0	29.86	29.71	29.796	3.5	3.2	318	28	WNW	13	320	
13	31.7	20.6	26.2	26.1	14	60	38	0	.....	0	0.02	0.0	29.76	29.49	29.590	3.8	3.4	325	28	N	14	294	
14	37.9	26.4	32.2	31.4	20	62	33	0	.....	0	0.01	0.0	29.71	29.48	29.580	4.9	4.6	293	27	W	15	278	
15	40.9	24.3	32.6	32.4	20	62	32	0	.....	0	0.00	0.0	29.80	29.63	29.725	3.2	3.0	236	19	WSW	12	264	
16	33.1	26.2	29.6	30.3	28	90	35	0	.....	0	0.09	6.3	29.64	29.36	29.484	0.2	0.2	357	11	NNW	5	351	
17	33.7	20.2	27.0	28.8	22	77	38	0	.....	0	0.16	0.0	29.61	29.46	29.531	1.9	1.8	264	19	W	11	288	
18	39.2	31.6	35.4	34.9	25	68	29	0	.....	0	0.18	0.0	29.66	29.46	29.568	5.2	5.1	310	23	NW	13	345	
19	41.4	33.7	37.6	37.4	26	64	27	0	.....	0	0.00	0.0	29.89	29.64	29.739	5.6	5.3	303	35	WNW	15	293	
20	43.5	34.2	38.9*	37.7	28	67	26	0	.....	0	0.00	0.0	29.98	29.89	29.925	3.7	3.6	312	22	N	14	341	
21	44.0*	29.8	36.9	37.0	21	53	28	0	.....	0	0.00	0.0	30.00	29.88	29.930	3.6	3.2	312	25	NW	12	276	
22	43.1	23.9	33.5	34.6	23	64	31	0	.....	0	0.00	0.0	30.00	29.87	29.934	0.9	0.6	66	12	N	6	344	
23	34.7	31.9	33.3	33.1	32	96	31	0	.....	0	1.10	2.3	29.89	29.74	29.825	1.3	1.3	40	15	NNE	7	55	
24	39.6	33.7	36.6	36.3	34	92	28	0	.....	0	0.81	0.0	29.76	29.64	29.731	2.0	1.9	4	15	NW	9	350	
25	35.6	25.8	30.7	32.3	31	95	34	0	.....	0	0.56	10.0	29.65	28.92	29.372	0.7	0.7	339	15	WNW	6	353	
26	34.9	25.3	30.1	29.4	27	91	35	0	.....	0	0.26	5.0	29.42	28.85	29.167	0.8	0.6	359	13	ENE	7	34	
27	39.2	23.8	31.5	32.5	29	89	33	0	.....	0	0.52	0.0	29.61	29.41	29.495	0.9	0.9	208	10	SSW	6	202	
28	38.8	25.7	32.3	33.3	29	85	32	0	.....	0	0.31	0.0	29.66	29.56	29.609	0.8	0.6	317	14	WNW	6	292	
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days				For the month:											---	
1033	696					946	0			4.74	39.0	30.37	28.85	29.765	2.6	1.9	317	35	WNW	15	339			
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
36.9	24.9	30.9	30.9	22	70.5	----	----	≥.01 inch	14	7.39	56.5	4	26	-----	----	----	---	19	11					
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	6	Greatest in 24 Hours and Dates				Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date											
Max Temperature			Min Temperature			4169	0	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.54	23-24	13.2	10	0						-						
0	4	25	0	----	----	Clear	28	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

February 2010: Oakland, NJ

Hour	FEB 01									FEB 02									FEB 03								
	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	30.11	0.00	17	9	70	22	0	0	30.23	0.00	24	14	66	20	0	2	30.07	0.00	27	25	93	03	0	0			
04	30.16	0.00	17	9	71	23	0	2	30.25	0.00	19	14	81	20	0	1	30.04	0.00	27	25	93	03	0	0			
07	30.22	0.00	19	10	69	27	1	6	30.27	0.00	17	13	84	23	0	1	30.04	0.00	26	25	94	03	0	0			
10	30.28	0.00	28	13	52	26	10	20	30.26	0.00	27	15	60	03	0	2	30.06	0.00	31	27	86	19	0	0			
13	30.21	0.00	33	12	41	32	4	11	30.19	0.00	31	13	47	16	1	3	29.99	0.00	36	27	70	31	5	10			
16	30.21	0.00	34	12	41	24	6	18	30.19	0.00	32	14	46	25	1	4	30.01	0.00	35	25	66	34	4	9			
19	30.21	0.00	29	12	49	24	0	5	30.16	0.00	31	14	50	11	0	0	30.08	0.00	32	22	65	30	1	8			
22	30.20	0.00	30	13	50	23	1	4	30.12	0.00	28	25	88	13	0	1	30.14	0.00	30	20	66	34	0	6			
FEB 04									FEB 05									FEB 06									
01	30.15	0.00	28	20	73	25	1	4	30.31	0.00	27	13	55	28	0	1	29.93	0.00	30	19	63	04	6	15			
04	30.19	0.00	29	18	65	35	4	11	30.32	0.00	22	14	72	26	0	1	29.83	0.00	29	19	66	03	4	15			
07	30.29	0.00	25	13	60	25	4	9	30.27	0.00	21	16	79	23	0	1	29.83	0.00	26	11	52	04	3	14			
10	30.36	0.00	28	11	49	33	3	13	30.27	0.00	31	19	61	31	1	7	29.79	0.00	24	10	56	01	2	17			
13	30.32	0.00	33	10	37	35	1	13	30.20	0.00	34	19	54	34	1	4	29.70	0.00	23	10	58	02	5	13			
16	30.29	0.00	35	9	33	31	3	11	30.14	0.00	34	20	55	30	0	3	29.67	0.00	25	9	50	03	4	11			
19	30.35	0.00	32	9	39	26	2	6	30.09	0.00	31	21	68	30	0	0	29.74	0.00	23	5	45	35	4	10			
22	30.33	0.00	28	13	55	33	0	3	30.01	0.00	31	22	70	04	1	5	29.79	0.00	20	6	53	03	3	12			
FEB 07									FEB 08									FEB 09									
01	29.81	0.00	16	6	64	05	1	5	29.92	0.00	22	12	66	35	2	19	30.01	0.00	28	19	67	29	6	15			
04	29.84	0.00	15	4	62	26	3	16	29.90	0.00	21	12	67	31	7	19	30.06	0.00	26	19	73	21	2	6			
07	29.89	0.00	14	4	65	14	2	7	29.93	0.00	21	12	67	30	8	15	30.06	0.00	27	18	70	18	3	14			
10	29.90	0.00	21	8	58	33	8	29	29.94	0.00	27	14	58	29	7	19	30.05	0.00	32	19	60	00	4	10			
13	29.85	0.00	30	13	50	32	11	20	29.92	0.00	34	16	47	28	10	20	30.00	0.00	39	21	49	35	2	4			
16	29.85	0.00	31	12	44	34	9	17	29.93	0.00	34	16	46	33	12	21	29.92	0.00	41	21	44	23	0	2			
19	29.91	0.00	24	10	57	23	2	14	29.98	0.00	30	16	57	34	3	14	29.86	0.00	36	24	60	04	0	3			
22	29.91	0.00	22	11	63	33	2	16	30.02	0.00	27	17	66	29	5	16	29.83	0.00	36	24	63	25	3	7			
FEB 10									FEB 11									FEB 12									
01	29.72	0.00	31	29	91	23	0	2	29.35	0.00	34	29	82	29	2	12	29.73	0.00	25	16	66	33	8	20			
04	29.57	0.00	29	27	92	03	0	4	29.45	0.00	29	19	67	32	5	22	29.78	0.00	26	15	65	07	0	10			
07	29.44	0.00	29	28	94	03	2	8	29.52	0.00	26	18	70	34	10	20	29.82	0.00	25	15	66	29	2	11			
10	29.29	0.00	29	27	94	03	4	13	29.59	0.00	30	19	64	33	4	11	29.85	0.00	29	14	53	34	4	14			
13	29.11	0.00	31	29	94	02	3	9	29.61	0.09	34	19	54	32	5	19	29.82	0.04	36	15	43	34	2	18			
16	29.10	0.00	30	28	91	04	3	16	29.63	0.00	35	19	51	32	8	20	29.78	0.00	35	18	50	28	5	12			
19	29.18	0.00	32	30	92	34	6	16	29.68	0.00	29	15	55	01	1	7	29.81	0.00	29	16	60	17	0	6			
22	29.27	0.00	34	30	88	35	4	14	29.72	0.00	28	13	55	33	8	28	29.81	0.00	27	15	60	27	1	6			
FEB 13									FEB 14									FEB 15									
01	29.75	0.00	25	14	65	35	0	4	29.49	0.00	27	16	63	35	3	11	29.71	0.00	29	21	71	22	7	13			
04	29.69	0.00	24	13	64	07	0	6	29.49	0.00	27	17	65	23	4	14	29.74	0.00	27	19	73	25	5	12			
07	29.67	0.00	22	14	70	16	0	7	29.53	0.00	28	19	67	28	6	15	29.77	0.00	25	18	75	20	2	5			
10	29.59	0.00	26	14	60	01	3	10	29.56	0.00	32	21	63	32	3	19	29.79	0.00	33	20	57	23	6	13			
13	29.52	0.00	31	12	45	35	1	14	29.58	0.00	35	22	58	29	7	22	29.73	0.00	39	21	48	28	2	12			
16	29.50	0.00	30	13	49	28	5	20	29.60	0.00	37	22	54	29	6	16	29.70	0.00	39	19	45	22	4	11			
19	29.51	0.00	27	14	57	35	3	19	29.65	0.00	32	20	63	22	1	4	29.72	0.00	35	20	53	22	0	3			
22	29.50	0.00	26	15	61	33	8	19	29.69	0.00	32	21	66	24	6	12	29.65	0.00	32	26	80	15	0	1			
FEB 16									FEB 17									FEB 18									
01	29.61	0.00	30	28	92	12	0	1	29.55	0.00	26	20	76	28	0	0	29.47	0.00	32	25	73	30	6	14			
04	29.53	0.00	30	28	93	07	0	1	29.57	0.00	25	19	80	20	0	0	29.47	0.00	32	24	72	32	10	21			
07	29.49	0.00	30	28	94	04	0	0	29.58	0.00	21	18	88	20	0	0	29.53	0.00	32	25	73	28	3	12			
10	29.43	0.00	31	29	91	01	1	4	29.58	0.00	32	22	67	26	7	16	29.58	0.00	37	26	65	33	3	16			
13	29.38	0.00	32	30	92	00	1	4	29.52	0.00	33	24	70	28	3	19	29.58	0.00	38	28	66	29	3	14			
16	29.40	0.00	32	31	94	35	4	11	29.48	0.00	33	23	64	28	8	14	29.59	0.00	39	28	66	30	11	20			
19	29.49	0.00	30	26	88	34	0	0	29.50	0.00	31	25	80	28	2	7	29.64	0.00	35	24	65	28	5	14			
22	29.55	0.00	28	22	76	32	0	0	29.47	0.00	29	25	85	21	1	5	29.66	0.00	34	22	63	34	6	16			

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.03	0.06	0.08	0.10	0.12	0.15	0.19	0.24	0.28	0.30	0.34	0.37
Ended: Date	23	23	23	23	23	23	23	23	23	23	23	23
Ended: Time	1247	1254	1254	1259	1259	1302	1339	1353	1357	1357	1427	1435

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

February 2010: Oakland, NJ

Hour	FEB 19									FEB 20									FEB 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	29.65	0.00	34	23	63	30	7	16	29.89	0.00	35	28	73	01	6	13	29.94	0.00	36	26	67	27	3	11			
04	29.65	0.00	34	23	64	30	4	16	29.90	0.00	35	27	74	24	2	13	29.93	0.00	33	23	68	25	1	6			
07	29.67	0.00	35	25	66	34	5	14	29.93	0.00	34	27	74	06	1	21	29.94	0.00	32	22	68	22	2	7			
10	29.71	0.00	39	28	64	30	6	17	29.97	0.00	37	28	69	02	6	16	29.93	0.00	39	22	51	27	6	15			
13	29.72	0.00	41	28	59	33	5	19	29.92	0.00	42	29	60	28	8	17	29.91	0.00	43	21	41	28	6	18			
16	29.77	0.00	41	27	58	29	9	20	29.91	0.00	41	28	59	33	6	19	29.89	0.00	43	19	38	31	6	15			
19	29.82	0.00	38	28	66	27	1	15	29.93	0.00	40	28	62	32	4	12	29.94	0.00	38	17	41	02	1	6			
22	29.88	0.00	37	27	68	30	7	13	29.94	0.00	38	27	65	27	1	6	29.97	0.00	33	18	54	30	0	7			
FEB 22									FEB 23									FEB 24									
01	29.98	0.00	30	19	64	02	0	5	29.88	0.00	32	31	94	06	0	2	29.75	0.06	34	33	96	04	0	3			
04	29.98	0.00	27	19	73	00	0	2	29.86	0.00	32	31	95	02	0	1	29.73	0.00	34	33	96	05	3	6			
07	29.99	0.00	25	19	77	13	0	1	29.84	0.00	33	31	96	02	1	5	29.75	0.04	34	33	96	00	2	11			
10	29.97	0.00	36	22	55	09	3	7	29.85	0.00	33	32	96	03	1	3	29.75	0.08	37	35	91	00	3	10			
13	29.91	0.00	43	24	47	12	2	6	29.81	0.26	35	34	96	00	3	11	29.73	0.06	39	36	88	35	3	11			
16	29.88	0.00	42	26	53	05	0	3	29.80	0.08	33	32	96	04	2	7	29.73	0.00	38	34	86	35	4	15			
19	29.88	0.00	37	29	71	04	0	2	29.81	0.04	34	33	96	04	2	10	29.73	0.00	37	34	90	05	0	6			
22	29.91	0.00	37	27	67	10	0	1	29.77	0.05	33	31	96	06	0	4	29.69	0.00	36	34	92	01	0	0			
FEB 25									FEB 26									FEB 27									
01	29.65	0.00	35	33	93	07	0	0	28.90	0.00	26	24	92	30	0	0	29.42	0.00	29	28	95	22	0	2			
04	29.61	0.00	35	33	94	05	0	0	28.87	0.00	26	23	91	27	0	0	29.42	0.00	29	28	95	18	0	3			
07	29.57	0.00	32	31	96	05	0	0	28.99	0.00	27	26	93	33	0	0	29.44	0.00	24	23	95	19	0	0			
10	29.50	0.00	32	31	96	06	0	0	29.13	0.00	31	28	90	00	0	0	29.47	0.00	34	29	80	19	6	10			
13	29.38	0.13	33	32	96	07	0	2	29.23	0.08	34	31	87	01	3	10	29.48	0.08	37	31	77	13	1	5			
16	29.26	0.05	33	32	95	30	1	9	29.32	0.04	32	29	89	31	1	7	29.51	0.06	38	34	84	19	1	4			
19	29.14	0.00	32	31	95	34	3	14	29.40	0.00	31	28	90	35	4	6	29.58	0.00	34	32	92	20	0	0			
22	29.01	0.00	27	25	93	33	0	0	29.41	0.00	27	26	94	22	0	0	29.60	0.00	33	31	92	20	0	1			
FEB 28																											
01	29.60	0.00	31	29	95	20	0	0																			
04	29.57	0.00	27	25	95	20	0	0																			
07	29.61	0.00	28	27	96	20	0	0																			
10	29.61	0.12	37	31	78	28	1	4																			
13	29.59	0.00	38	30	75	01	0	1																			
16	29.59	0.00	39	29	68	35	2	5																			
19	29.65	0.00	36	31	82	34	5	10																			
22	29.65	0.00	34	31	89	33	2	6																			

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

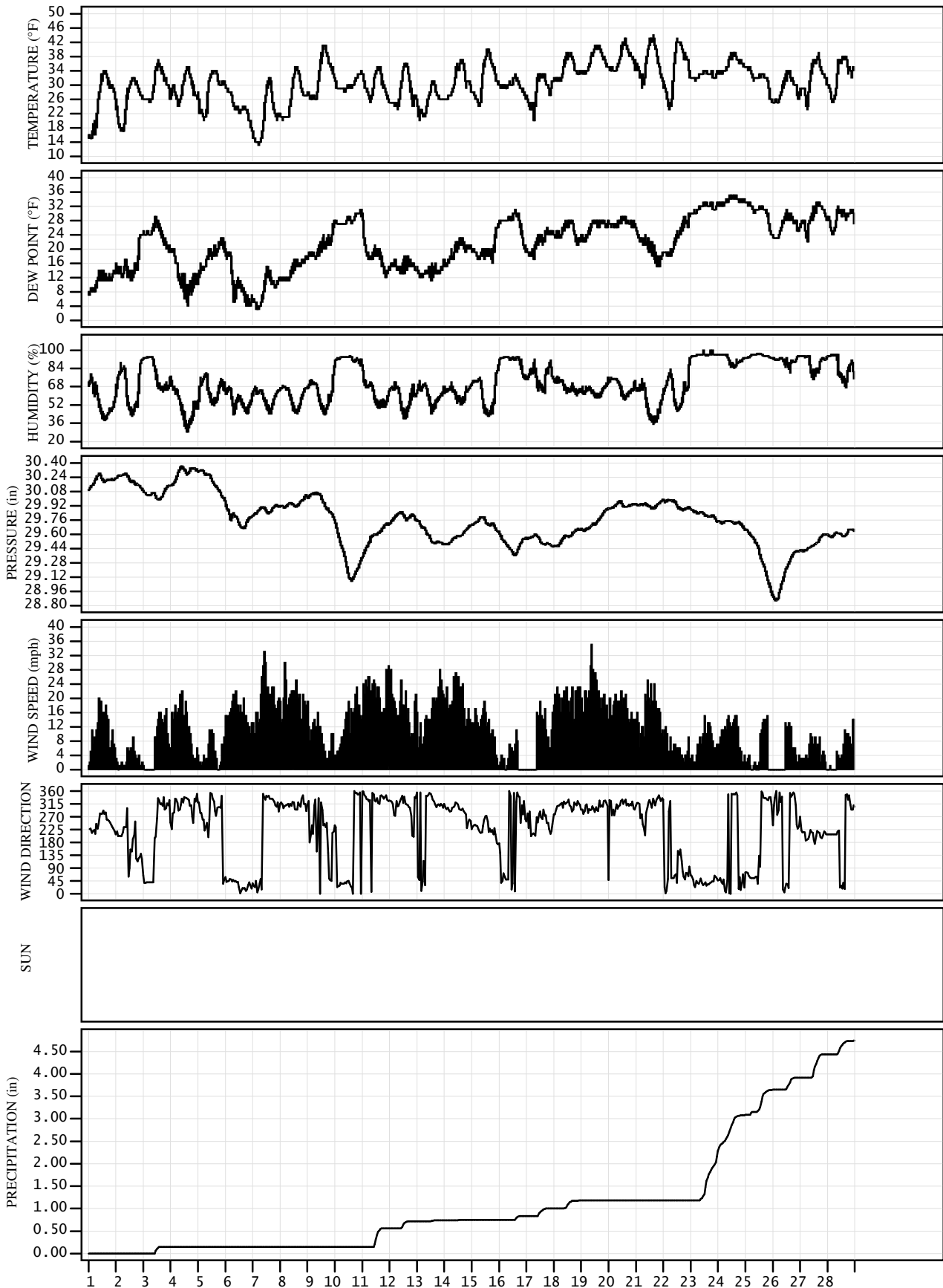
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.771	29	22	76	2.1	32	1.4
04		29.764	27	21	77	2.0	31	1.3
07		29.782	26	20	78	2.0	32	1.1
10		29.788	32	22	69	3.6	31	2.1
13		29.747	35	23	62	3.5	32	2.6
16		29.738	35	22	61	4.4	31	3.5
19		29.765	32	22	67	1.8	33	1.3
22		29.768	30	22	72	2.2	32	1.7

HOURLY PRECIPITATION (Water Equivalent) February 2010: Oakland, NJ

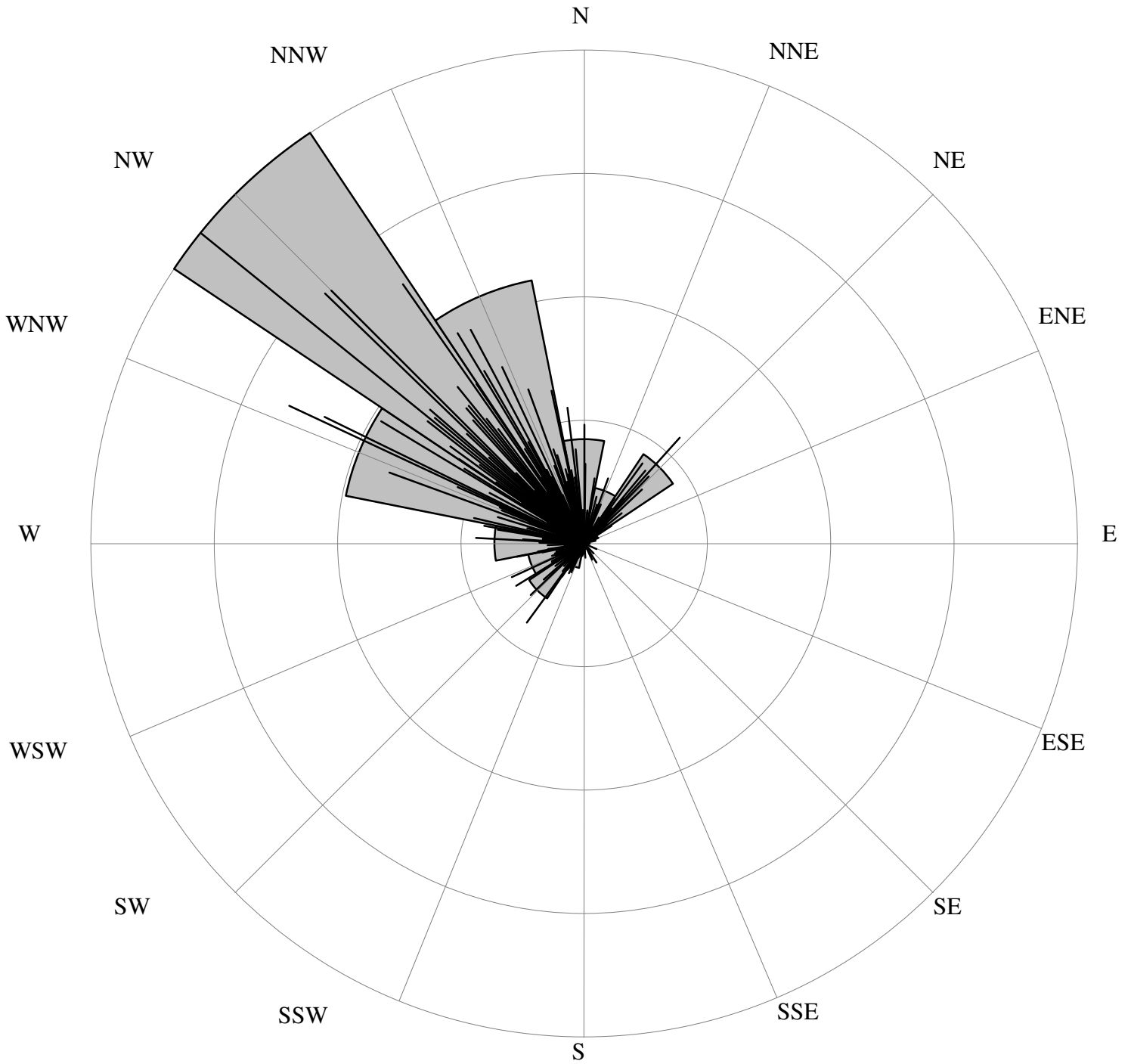
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date	
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12		
01																								01		
02																									02	
03											0.06	0.05	0.02	0.02											03	
04																									04	
05																									05	
06																									06	
07																									07	
08																									08	
09																									09	
10																									10	
11											0.06	0.10	0.11	0.06	0.04	0.03	0.01								11	
12											0.03	0.05	0.04	0.02	0.01	0.01									12	
13													0.01												13	
14													0.01												14	
15																									15	
16															0.04	0.02	0.01	0.01			0.01				16	
17											0.06	0.02	0.02	0.02	0.02	0.01	0.01								17	
18										0.01	0.02	0.06	0.02	0.03	0.01	0.02									18	
19																							0.01			19
20																									20	
21																									21	
22																									22	
23							0.01	0.02	0.03	0.04	0.04	0.16	0.14	0.07	0.08	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.13	0.12	23
24	0.09	0.04	0.03	0.02	0.03	0.02	0.04	0.05	0.05	0.06	0.08	0.07	0.06	0.06	0.04	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24
25					0.04	0.02																				25
26												0.01	0.06	0.04	0.05	0.06	0.02	0.01	0.01							26
27									0.01	0.02	0.13	0.09	0.06	0.06	0.08	0.04	0.02	0.01	0.01							27
28								0.01	0.07	0.06	0.05	0.03	0.03	0.02	0.02	0.01							0.01			28
Sum	0.09	0.04	0.03	0.02	0.07	0.04	0.04	0.06	0.08	0.18	0.45	0.61	0.69	0.61	0.47	0.42	0.19	0.11	0.08	0.07	0.05	0.06	0.14	0.14	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
February 2010: Oakland, NJ



Wind Rose: February 2010
Oakland, NJ



Maximum direction of wind: 63.6 miles from 309°
Maximum sector of wind: 569.7 miles from NW
1775.6 total miles of wind