

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

December 2009

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	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	45.8	28.8	37.3	37.7	28	67	27	0	.....	0	0.00	0.0	30.12	29.77	29.959	2.8	2.3	264	22	WNW	13	231	
2	55.3	27.1	41.2	39.0	35	88	24	0	.....	0	0.70	0.0	30.19	29.70	30.061	0.4	0.1	202	21	E	9	144	
3	65.8*	43.3	54.6*	56.7	47	72	10	0	.....	0	0.66	0.0	29.88	29.26	29.557	5.8	5.0	240	30	S	17	226	
4	49.7	32.4	41.1	40.8	33	75	24	0	.....	0	0.00	0.0	30.18	29.88	30.072	0.9	0.8	258	13	WNW	7	232	
5	41.0	32.9	37.0	35.9	31	83	28	0	.....	0	0.26	1.0	30.16	29.87	29.998	1.5	1.4	13	15	N	7	343	
6	36.6	26.2	31.4	31.6	25	76	33	0	.....	0	0.14	0.0	30.37	29.92	30.196	1.7	1.3	310	16	NW	10	280	
7	35.9	23.3	29.6	30.4	25	81	35	0	.....	0	0.03	0.0	30.37	30.14	30.246	0.9	0.8	232	10	WSW	6	226	
8	41.1	29.6	35.3	34.6	27	73	29	0	.....	0	0.01	0.0	30.34	30.17	30.278	1.4	1.1	323	16	NNE	8	9	
9	41.4	32.0	36.7	36.4	35	96	28	0	.....	0	1.53	3.5	30.23	29.18	29.539	1.5	0.9	37	24	WNW	14	277	
10	41.0	24.4	32.7	34.5	20	55	32	0	.....	0	0.09	0.0	29.88	29.35	29.609	6.3	6.2	261	30	SW	17	226	
11	28.2	18.3	23.3	23.3	7	49	42	0	.....	0	0.00	0.0	30.30	29.87	30.102	5.5	5.4	261	31	WNW	15	251	
12	35.0	15.5	25.3	24.3	14	67	39	0	.....	0	0.01	0.0	30.53	30.30	30.467	1.0	0.9	300	19	N	10	242	
13	41.6	16.5	29.0	27.9	26	91	35	0	.....	0	0.53	0.0	30.49	29.82	30.147	0.6	0.4	315	17	NNW	7	332	
14	43.9	35.5	39.7	39.4	34	82	25	0	.....	0	0.00	0.0	30.12	29.90	30.020	1.2	0.6	271	18	SW	8	327	
15	48.9	35.7	42.3	41.6	37	84	22	0	.....	0	0.00	0.0	30.03	29.87	29.921	1.7	1.5	273	18	N	12	355	
16	39.3	25.0	32.1	30.5	16	55	33	0	.....	0	0.00	0.0	30.26	30.03	30.188	4.1	3.8	316	24	W	13	283	
17	28.3	17.3	22.8	24.2	10	55	42	0	.....	0	0.00	0.0	30.32	30.18	30.256	4.1	3.8	325	26	NNE	13	340	
18	29.8	12.2*	21.0*	20.7	6	54	44	0	.....	0	0.00	0.0	30.31	30.05	30.214	0.7	0.5	29	12	NNE	6	15	
19	25.6	19.5	22.6	21.9	8	58	42	0	.....	0	0.00	7.0	30.05	29.63	29.800	2.7	2.6	10	25	NNW	12	351	
20	32.8	19.7	26.3	26.1	12	58	38	0	.....	0	0.07	1.0	29.86	29.61	29.732	4.0	3.8	338	27	NNW	14	324	
21	35.3	26.2	30.8	30.1	18	62	34	0	.....	0	0.05	0.0	30.00	29.85	29.900	4.9	4.8	317	27	W	14	317	
22	34.4	19.7	27.1	28.4	15	58	38	0	.....	0	0.02	0.0	30.19	29.98	30.083	4.5	4.4	313	25	WNW	15	296	
23	28.9	17.6	23.3	23.0	11	61	41	0	.....	0	0.00	0.0	30.24	30.11	30.177	4.2	4.0	309	24	N	13	350	
24	37.3	20.4	28.8	27.4	20	75	36	0	.....	0	0.03	0.0	30.44	30.21	30.353	1.6	1.5	14	22	NW	9	0	
25	37.5	20.5	29.0	32.0	28	87	35	0	.....	0	0.23	0.0	30.45	30.28	30.376	1.3	1.3	49	16	NE	6	54	
26	45.3	34.2	39.8	38.8	38	95	25	0	.....	0	1.68	0.0	30.28	29.89	30.140	4.5	4.5	60	20	E	11	65	
27	54.2	27.8	41.0	43.8	35	74	24	0	.....	0	0.65	0.0	29.89	29.77	29.834	2.7	1.9	275	24	WSW	12	282	
28	39.5	27.1	33.3	31.8	22	69	31	0	.....	0	0.00	0.0	29.81	29.58	29.653	3.1	3.0	275	23	NNW	12	287	
29	29.1	13.6	21.4	19.7	5	51	43	0	.....	0	0.00	0.0	30.34	29.64	30.018	7.7	7.2	314	37	N	19	340	
30	31.3	16.5	23.9	24.7	13	61	41	0	.....	0	0.00	0.0	30.48	30.30	30.377	1.5	1.1	262	22	WNW	12	301	
31	33.5	25.7	29.6	28.9	24	81	35	0	.....	0	0.08	2.2	30.30	29.99	30.149	0.4	0.4	207	9	SW	4	217	
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:										---	
1213	765					1015	0		Number of Days	6.77	14.7	30.53	29.18	30.046	2.7	1.7	303	37	N	19	340			
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip	Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
39.1	24.7	31.9	31.8	23	70.7	----	----		≥.01 inch	18	46.86	14.7	12	9	-----	----	----	---	29	29				
Number of Days							Season to Date	Snow, Ice ≥1.0 inch	5	Greatest in 24 Hours and Dates					Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			2101	544	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	2.24	26-27	7.0	19	0					-							
0	7	26	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

December 2009: 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																																																																																																																																																																																																													
DEC 01																								DEC 02																								DEC 03																																																																																																																																																																															
01		29.80	0.00	36	26	67	00	1	6		30.13	0.00	31	28	89	29	0	0		29.61	0.05	56	55	97	18	2	8	04		29.86	0.00	35	24	65	32	5	11		30.14	0.00	29	27	94	29	0	0		29.35	0.07	58	57	96	15	6	13	07		29.91	0.00	29	25	83	21	0	2		30.15	0.00	27	26	95	29	0	0		29.35	0.00	63	52	66	27	6	30	10		29.96	0.00	37	27	67	21	5	9		30.18	0.00	36	33	89	29	0	0		29.46	0.00	61	48	63	22	14	27	13		29.94	0.00	43	29	57	28	6	17		30.10	0.00	48	38	69	24	2	7		29.50	0.00	60	47	63	26	8	16	16		29.98	0.00	44	29	56	23	7	12		30.08	0.00	46	39	77	27	0	1		29.63	0.00	56	43	61	23	5	16	19		30.06	0.00	40	30	68	23	2	6		29.98	0.00	43	42	95	06	0	1		29.74	0.00	52	41	66	25	3	10	22		30.10	0.00	41	32	69	29	4	7		29.83	0.07	49	48	97	02	1	4		29.83	0.00	49	37	64	31	1	14
DEC 04																								DEC 05																								DEC 06																																																																																																																																																																															
01		29.90	0.00	40	35	84	23	0	0		30.14	0.00	37	32	82	29	0	0		29.96	0.00	33	30	89	30	3	9	04		29.97	0.00	34	33	94	23	0	0		30.14	0.00	35	32	89	29	0	0		30.03	0.00	31	27	85	30	0	2	07		30.05	0.00	33	31	95	23	0	0		30.11	0.00	39	28	67	05	2	5		30.14	0.00	31	26	82	19	2	6	10		30.13	0.00	45	34	65	29	1	5		30.04	0.00	40	30	65	05	1	3		30.24	0.00	32	23	69	32	5	13	13		30.08	0.00	49	33	54	31	0	5		29.92	0.00	38	31	76	35	3	10		30.23	0.00	36	23	60	28	3	16	16		30.12	0.00	47	32	54	26	1	6		29.89	0.00	33	31	93	34	2	8		30.26	0.00	35	23	62	26	2	4	19		30.16	0.00	39	32	75	27	0	0		29.90	0.00	34	32	94	35	4	14		30.31	0.00	27	23	86	28	0	0	22		30.17	0.00	41	32	69	29	1	2		29.90	0.00	33	32	93	08	3	7		30.33	0.00	30	23	74	26	1	5
DEC 07																								DEC 08																								DEC 09																																																																																																																																																																															
01		30.36	0.00	28	24	86	20	0	1		30.18	0.00	33	26	78	27	2	11		30.15	0.00	32	30	93	03	0	3	04		30.32	0.00	26	24	92	20	0	0		30.24	0.00	30	26	84	23	1	4		29.97	0.00	32	31	95	02	0	0	07		30.33	0.00	24	22	94	20	0	0		30.30	0.00	31	25	78	34	1	4		29.74	0.26	34	33	96	03	6	18	10		30.30	0.00	31	26	82	27	2	3		30.34	0.00	38	26	63	01	2	14		29.44	0.13	40	39	96	05	7	18	13		30.20	0.00	36	24	63	24	1	4		30.30	0.00	41	27	58	33	2	11		29.33	0.08	40	39	96	07	2	6	16		30.17	0.00	35	25	65	23	0	5		30.32	0.00	38	27	64	33	0	1		29.21	0.00	38	38	97	07	0	4	19		30.16	0.00	34	27	75	23	0	1		30.27	0.00	32	27	82	09	0	0		29.25	0.00	36	35	97	29	0	0	22		30.15	0.00	30	27	87	23	0	1		30.27	0.00	32	29	86	08	0	0		29.31	0.00	33	32	97	23	0	2
DEC 10																								DEC 11																								DEC 12																																																																																																																																																																															
01		29.40	0.00	40	32	72	24	7	14		29.90	0.00	24	7	48	27	9	26		30.31	0.00	21	10	62	20	1	3	04		29.43	0.00	38	28	69	22	3	7		29.99	0.00	21	5	51	23	3	19		30.36	0.00	18	11	75	22	0	2	07		29.53	0.00	37	23	57	27	13	28		30.06	0.00	19	4	53	28	2	14		30.46	0.00	17	12	83	33	1	3	10		29.60	0.00	37	22	55	28	6	22		30.10	0.00	23	6	49	23	11	19		30.53	0.00	28	16	62	01	1	6	13		29.60	0.00	35	19	52	28	7	27		30.07	0.00	28	9	46	26	6	17		30.50	0.00	33	15	47	30	5	15	16		29.67	0.00	33	17	50	24	8	16		30.14	0.00	26	7	43	29	7	17		30.50	0.00	34	14	44	22	1	5	19		29.76	0.00	30	12	46	27	8	22		30.23	0.00	25	8	48	30	3	13		30.52	0.00	25	17	71	29	0	0	22		29.82	0.00	27	10	48	26	2	16		30.27	0.00	24	8	50	24	3	7		30.52	0.00	21	16	81	30	0	1
DEC 13																								DEC 14																								DEC 15																																																																																																																																																																															
01		30.48	0.00	20	17	85	31	0	0		29.93	0.00	41	36	82	32	3	9		29.92	0.00	38	36	90	24	0	0	04		30.43	0.00	18	15	90	35	0	0		29.99	0.00	40	34	80	13	2	5		29.89	0.00	37	36	93	23	0	2	07		30.38	0.00	17	14	91	35	0	0		30.08	0.00	38	33	82	35	2	5		29.89	0.00	38	37	95	26	0	0	10		30.29	0.00	26	21	80	05	0	1		30.11	0.00	41	34	78	20	1	2		29.91	0.00	42	40	95	21	2	3	13		30.09	0.00	31	29	93	05	0	2		30.08	0.00	43	34	70	25	2	4		29.88	0.00	48	43	82	25	2	7	16		29.89	0.00	32	31	95	05	0	1		30.05	0.00	41	34	78	20	0	0		29.92	0.00	46	39	75	26	1	9	19		29.83	0.00	34	33	96	14	0	1		30.02	0.00	36	33	90	20	0	1		29.96	0.00	43	34	70	23	1	11	22		29.88	0.00	40	39	96	29	4	11		29.96	0.00	36	34	91	20	0	0		29.99	0.00	38	32	79	29	0	3
DEC 16																								DEC 17																								DEC 18																																																																																																																																																																															
01		30.05	0.00	37	25	61	31	5	11		30.19	0.00	26	14	61	34	4	15		30.30	0.00	17	7	64	16	1	2	04		30.15	0.00	32	21	62	34	3	14		30.22	0.00	26	13	57	28	7	22		30.30	0.00	15	5	66	01	0	9	07		30.23	0.00	29	15	56	00	0	10		30.22	0.00	25	11	54	31	5	16		30.28	0.00	12	5	71	02	1	6	10		30.25	0.00	30	17	58	28	3	16		30.29	0.00	25	10	54	29	2	18		30.30	0.00	17	5	59	01	2	9	13		30.20	0.00	33	15	46	33	5	22		30.25	0.00	28	11	49	31	7	20		30.20	0.00	28	8	43	23	0	3	16		30.18	0.00	31	14	49	31	5	14		30.26	0.00	26	10	50	29	11	23		30.15	0.00	28	5	36	06	0	2	19		30.23	0.00	28	13	52	31	4	11		30.29	0.00	21	8	56	26	2	6		30.14	0.00	25	9	51	07	0	2	22		30.20	0.00	26	11	53	30	3	9		30.31	0.00	18	7	61	30	1	5		30.09	0.00	23	5	45	05	0	1

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.46	0.48	0.48	0.49	0.51	0.52	0.53	0.53	0.60	0.67	0.78	0.90
Ended: Date	13	13	13	13	13	13	13	13	27	27	09	09
Ended: Time	1740	1745	1745	1752	1800	1806	1834	1834	0113	0119	0922	0938

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

December 2009: Oakland, NJ

Hour	DEC 19									DEC 20									DEC 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		30.02	0.00	23	3	41	35	1	6	29.61	0.00	20	15	80	01	5	17	29.86	0.00	27	16	65	32	3	11		
04		29.93	0.00	22	3	44	04	1	5	29.65	0.00	22	18	86	34	0	7	29.88	0.00	27	18	67	34	2	12		
07		29.90	0.00	23	-1	35	03	1	5	29.70	0.00	24	12	61	29	1	12	29.90	0.00	28	21	73	29	2	7		
10		29.83	0.00	24	2	39	05	2	9	29.73	0.00	26	9	49	32	5	12	29.91	0.00	33	20	60	28	6	12		
13		29.74	0.00	24	7	48	00	3	7	29.69	0.00	32	10	40	34	9	17	29.87	0.00	35	17	48	32	8	20		
16		29.68	0.00	21	16	79	00	6	13	29.77	0.00	31	9	39	06	4	20	29.88	0.00	33	17	52	30	6	22		
19		29.67	0.00	20	17	87	35	4	22	29.81	0.00	28	11	48	20	2	12	29.93	0.00	30	18	61	30	6	26		
22		29.67	0.00	20	18	90	00	5	15	29.85	0.00	26	15	62	31	6	21	29.96	0.00	29	18	64	28	8	16		
DEC 22									DEC 23									DEC 24									
01		29.99	0.00	27	17	67	32	6	14	30.18	0.00	20	9	63	29	2	14	30.23	0.00	23	14	69	05	5	14		
04		30.03	0.00	28	18	66	31	6	19	30.17	0.00	18	9	67	29	5	14	30.25	0.00	24	15	71	05	3	9		
07		30.07	0.00	27	18	68	34	2	12	30.18	0.00	18	8	66	29	8	15	30.34	0.00	21	16	82	26	0	2		
10		30.09	0.00	31	18	60	34	4	11	30.20	0.00	22	9	58	30	5	16	30.39	0.00	31	22	71	35	5	13		
13		30.06	0.00	34	18	53	29	6	20	30.13	0.00	28	11	50	29	7	17	30.38	0.00	36	24	63	33	3	6		
16		30.08	0.00	33	18	54	26	6	22	30.15	0.00	28	14	55	32	2	13	30.38	0.00	36	26	66	06	2	6		
19		30.13	0.00	28	6	40	28	2	19	30.19	0.00	26	14	60	32	4	13	30.40	0.00	27	23	84	07	0	0		
22		30.17	0.00	22	7	52	34	2	12	30.21	0.00	25	15	67	06	2	5	30.44	0.00	23	21	90	07	0	0		
DEC 25									DEC 26									DEC 27									
01		30.44	0.00	21	19	92	07	0	0	30.27	0.00	34	33	95	05	5	14	29.85	0.37	46	45	97	04	2	5		
04		30.44	0.00	27	24	91	04	0	0	30.24	0.00	36	34	95	06	4	15	29.79	0.00	54	53	97	14	2	13		
07		30.42	0.00	30	27	90	02	0	0	30.24	0.00	36	35	95	07	6	20	29.82	0.00	46	43	90	30	8	20		
10		30.43	0.00	33	28	83	03	1	7	30.23	0.00	37	36	94	05	5	20	29.85	0.00	45	33	62	24	3	9		
13		30.35	0.00	37	30	76	07	2	7	30.14	0.07	38	37	95	07	2	18	29.83	0.00	49	26	41	28	9	19		
16		30.33	0.00	37	30	77	06	1	6	30.09	0.08	40	39	95	05	5	13	29.83	0.00	47	27	45	24	7	15		
19		30.33	0.06	35	33	91	04	2	4	30.03	0.26	42	41	96	05	7	16	29.86	0.00	37	27	67	23	0	4		
22		30.32	0.18	34	33	94	03	1	9	29.95	0.12	45	44	96	06	2	7	29.85	0.00	30	26	88	24	0	0		
DEC 28									DEC 29									DEC 30									
01		29.78	0.00	27	25	93	24	0	0	29.64	0.00	28	18	66	21	3	6	30.34	0.00	18	7	62	33	4	16		
04		29.69	0.00	29	27	92	07	0	2	29.74	0.00	27	11	52	29	9	25	30.38	0.00	19	9	65	28	2	11		
07		29.65	0.00	31	29	92	10	0	0	29.86	0.00	20	4	49	33	6	21	30.42	0.00	18	10	71	20	0	2		
10		29.63	0.00	37	25	62	28	4	15	30.01	0.00	18	1	46	26	4	25	30.48	0.00	24	14	65	25	2	7		
13		29.59	0.00	37	21	52	24	8	18	30.05	0.00	20	1	43	34	12	22	30.40	0.00	29	15	55	22	2	5		
16		29.61	0.00	34	16	46	29	3	17	30.17	0.00	17	-0	45	30	5	16	30.36	0.00	31	15	52	20	1	3		
19		29.64	0.00	30	17	57	23	4	12	30.28	0.00	14	-1	52	30	6	22	30.35	0.00	29	16	58	22	0	3		
22		29.66	0.00	28	16	61	27	4	13	30.28	0.00	16	4	59	31	8	22	30.32	0.00	28	15	58	20	0	7		
DEC 31																											
01		30.26	0.00	28	16	62	18	1	4																		
04		30.24	0.00	27	17	66	22	3	6																		
07		30.19	0.00	27	19	69	05	1	3																		
10		30.20	0.00	27	25	92	24	0	1																		
13		30.12	0.00	32	27	81	17	1	2																		
16		30.07	0.00	32	28	84	26	0	0																		
19		30.07	0.00	30	27	90	04	0	1																		
22		30.02	0.00	30	28	93	04	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

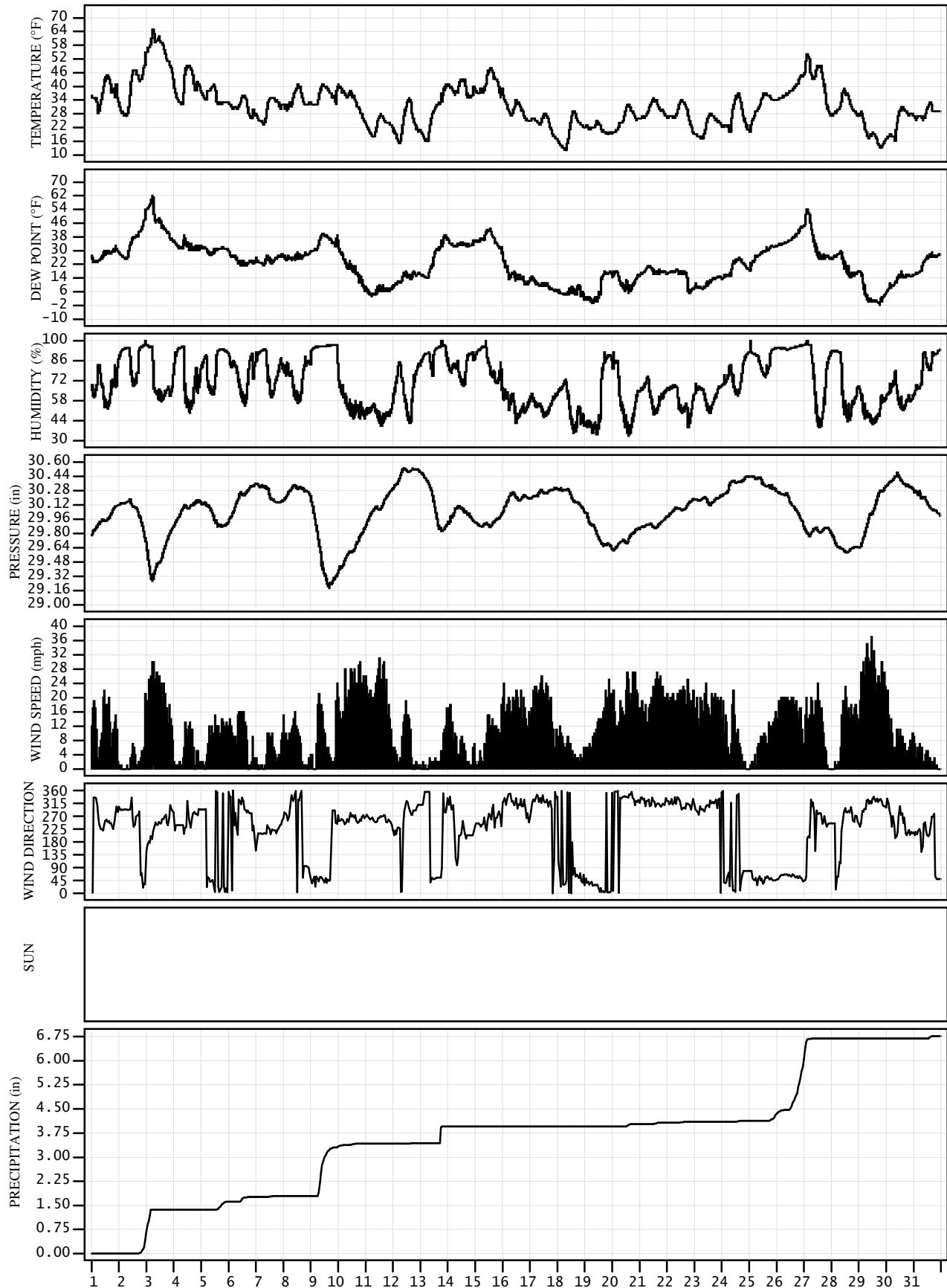
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		30.037	30	23	76	2.4	32	1.2
04		30.039	29	23	77	2.1	29	0.9
07		30.060	29	21	75	2.4	31	1.5
10		30.080	33	23	67	3.6	29	1.8
13		30.026	36	23	60	4.4	30	3.2
16		30.026	35	23	63	3.1	29	1.9
19		30.049	32	23	71	2.1	30	1.3
22		30.053	31	23	75	2.1	31	1.5

HOURLY PRECIPITATION (Water Equivalent)
December 2009: Oakland, NJ

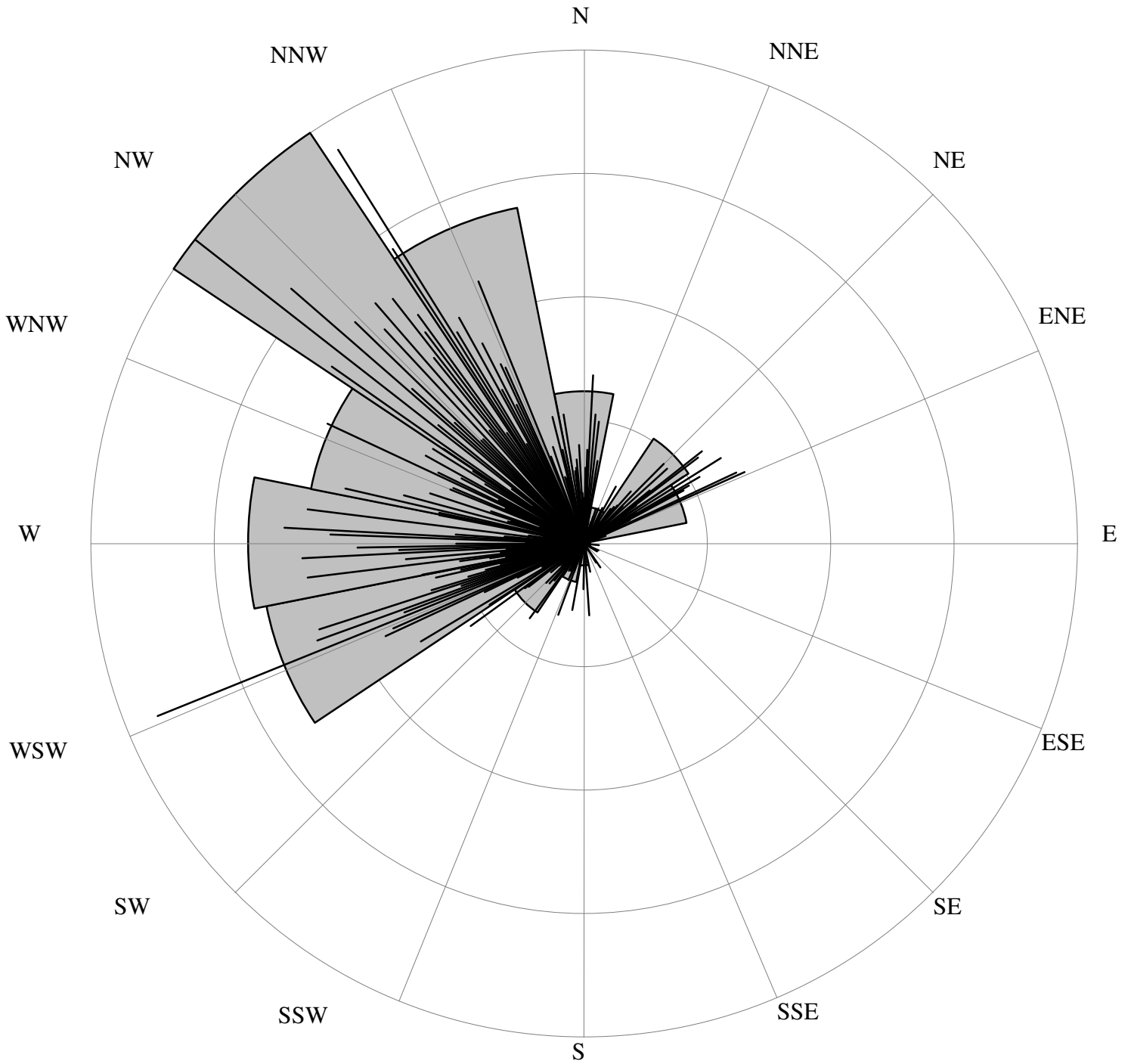
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date	
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12		
01																									01	
02																										02
03	0.17	0.15	0.15	0.19														0.01	0.02	0.05	0.05	0.07	0.19	0.31	03	
04																										04
05														0.01	0.02	0.04	0.04	0.05	0.03	0.03	0.02	0.01		0.01	05	
06											0.02	0.06	0.03	0.02												06
07											0.01	0.01	0.01		0.01											07
08																										08
09								0.09	0.33	0.30	0.24	0.13	0.10	0.07	0.07	0.05	0.04	0.04	0.02	0.01	0.01	0.01			09	
10	0.02	0.01		0.01				0.01			0.01	0.01	0.01											0.02	10	
11																										11
12																0.01										12
13																		0.50	0.03							13
14																										14
15																										15
16																										16
17																										17
18																										18
19																										19
20													0.01	0.03	0.02	0.01										20
21																										21
22												0.01	0.01		0.02	0.02										22
23																										23
24													0.01	0.01		0.01										24
25																			0.04		0.03	0.03	0.08	0.05		25
26	0.02	0.03	0.02	0.02	0.01					0.01		0.03	0.07	0.10	0.07	0.08	0.08	0.09	0.18	0.16	0.15	0.19	0.14	0.22	26	
27	0.38	0.18	0.07	0.01						0.01																27
28																										28
29																										29
30																										30
31															0.03	0.03	0.02									31
Sum	0.59	0.37	0.24	0.23	0.01	0.00	0.12	0.33	0.30	0.25	0.16	0.22	0.23	0.27	0.24	0.23	0.17	0.67	0.31	0.25	0.26	0.30	0.41	0.61	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
December 2009: Oakland, NJ



Wind Rose: December 2009
Oakland, NJ



Maximum direction of wind: 44.0 miles from 308°
Maximum sector of wind: 427.7 miles from NW
2039.5 total miles of wind