

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### January 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	43.8	23.2	33.5	33.7	27	78	31	0	.....	0	0.16	0.0	30.09	29.62	29.796	1.7	1.5	234	16	SSW	9	215		
2	34.9	14.3	24.6	26.0	11	53	40	0	.....	0	0.00	0.0	30.30	29.62	29.881	4.9	4.3	322	33	NNW	14	330		
3	18.8	9.7*	14.2*	13.9	-3	47	50	0	.....	0	0.00	0.0	30.64	30.30	30.518	3.2	3.1	337	22	N	12	333		
4	32.1	10.2	21.1	22.8	8	55	44	0	.....	0	0.00	0.0	30.61	30.36	30.473	1.5	1.5	232	13	SW	7	230		
5	42.8	18.4	30.6	30.4	18	63	34	0	.....	0	0.10	0.0	30.36	30.18	30.278	0.6	0.6	228	10	WSW	4	223		
6	44.1	32.1	38.1	36.6	32	85	27	0	.....	0	0.01	0.0	30.20	30.14	30.174	0.1	0.1	227	4	SW	2	221		
7	59.9	35.5	47.7	43.0	38	82	17	0	.....	0	0.00	0.0	30.19	30.09	30.149	0.1	0.1	232	4	SW	2	230		
8	61.3	32.7	47.0	44.8	40	84	18	0	.....	0	0.00	0.0	30.14	29.88	30.043	0.7	0.6	221	9	WSW	5	222		
9	63.1*	37.6	50.3*	48.8	36	66	14	0	.....	0	0.03	0.0	30.01	29.67	29.825	3.2	3.2	237	31	w	15	241		
10	48.5	32.9	40.7	41.1	25	54	24	0	.....	0	0.01	0.0	30.15	29.97	30.079	1.0	0.7	252	11	NNW	7	341		
11	49.4	34.9	42.2	40.2	39	94	23	0	.....	0	0.57	0.0	29.97	29.52	29.726	0.6	0.2	358	9	SW	5	219		
12	45.7	28.1	36.9	37.5	30	76	28	0	.....	0	0.00	0.0	30.12	29.78	29.971	1.1	0.6	316	12	WNW	7	7		
13	44.8	23.3	34.0	33.7	27	77	31	0	.....	0	0.20	0.5	30.18	29.90	30.080	1.4	1.3	50	16	NNW	9	62		
14	36.8	32.5	34.6	34.1	31	88	30	0	.....	0	0.19	1.0	29.90	29.75	29.794	1.1	1.0	350	10	NNW	5	349		
15	35.6	29.8	32.7	33.2	25	72	32	0	.....	0	0.00	0.0	29.91	29.71	29.771	2.4	2.2	272	17	WSW	9	223		
16	37.8	23.3	30.5	30.2	17	58	34	0	.....	0	0.00	0.0	30.33	29.91	30.165	2.4	2.2	329	17	NW	10	341		
17	34.3	19.7	27.0	27.9	21	75	38	0	...4....	0	0.00	2.0	30.35	29.94	30.230	0.4	0.2	95	6	SE	4	170		
18	45.1	32.1	38.6	37.3	25	65	26	0	.....	0	0.46	0.0	30.02	29.73	29.849	2.4	2.2	243	18	SSW	11	229		
19	35.5	25.6	30.6	31.2	17	55	34	0	.....	0	0.00	0.0	30.07	29.83	29.972	1.7	1.6	238	12	WNW	6	226		
20	31.8	14.9	23.3	21.3	0	40	41	0	.....	0	0.00	0.0	30.45	29.81	30.094	3.7	3.2	297	25	WNW	12	339		
21	25.6	12.1	18.9	17.8	-1	45	46	0	.....	0	0.00	0.0	30.68	30.45	30.597	2.3	2.2	239	14	w	8	240		
22	36.3	11.6	23.9	25.2	16	69	41	0	.....	0	0.00	0.0	30.57	29.84	30.165	1.7	1.7	222	19	SSW	10	217		
23	38.2	26.1	32.2	32.2	11	43	33	0	.....	0	0.00	0.0	30.01	29.84	29.936	2.6	2.3	256	19	NW	9	233		
24	30.6	14.6	22.6	24.4	9	53	42	0	.....	0	0.00	0.0	30.13	29.91	29.997	1.4	1.1	320	15	NW	8	268		
25	31.8	13.6	22.7	24.1	6	46	42	0	.....	0	0.00	0.0	30.31	30.13	30.220	2.7	2.5	252	18	w	10	218		
26	31.6	20.5	26.1	26.3	6	43	38	0	.....	0	0.00	0.0	30.26	30.08	30.183	0.8	0.3	247	15	NW	5	294		
27	35.8	24.2	30.0	29.3	18	63	35	0	.....	0	0.00	0.0	30.08	29.97	30.026	1.6	1.6	353	13	NW	8	359		
28	40.1	23.5	31.8	29.7	17	60	33	0	.....	0	0.00	0.0	30.05	29.93	29.992	1.7	1.4	335	18	NNW	10	352		
29	36.9	19.1	28.0	29.2	24	80	37	0	.....	0	0.03	0.0	29.93	29.59	29.786	0.3	0.2	246	5	WSW	3	228		
30	42.2	29.7	36.0	35.7	20	59	29	0	.....	0	0.25	0.0	30.15	29.39	29.668	3.4	3.3	239	33	SSW	17	226		
31	35.3	21.4	28.3	28.3	8	43	37	0	.....	0	0.00	0.0	30.57	30.15	30.444	1.2	0.8	319	11	NW	7	346		
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		For the month:												---		
1230	727					1029	0			2.01	3.5	30.68	29.39	30.061	1.7	1.1	280	33	NNW	17	226			
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
39.7	23.5	31.6	31.3	19	63.6	----	----	≥.01 inch	11	2.01	13.9	21	30	-----	----	----	---	2+	30					
Number of Days						Season to Date		Snow, Ice ≥1.0 inch		2		Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date						
Max Temperature			Min Temperature			3102	0	Thunder		0		Precipitation		Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog		0		0.58	10-11	2.0	17	0					-					
0	7	25	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/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.



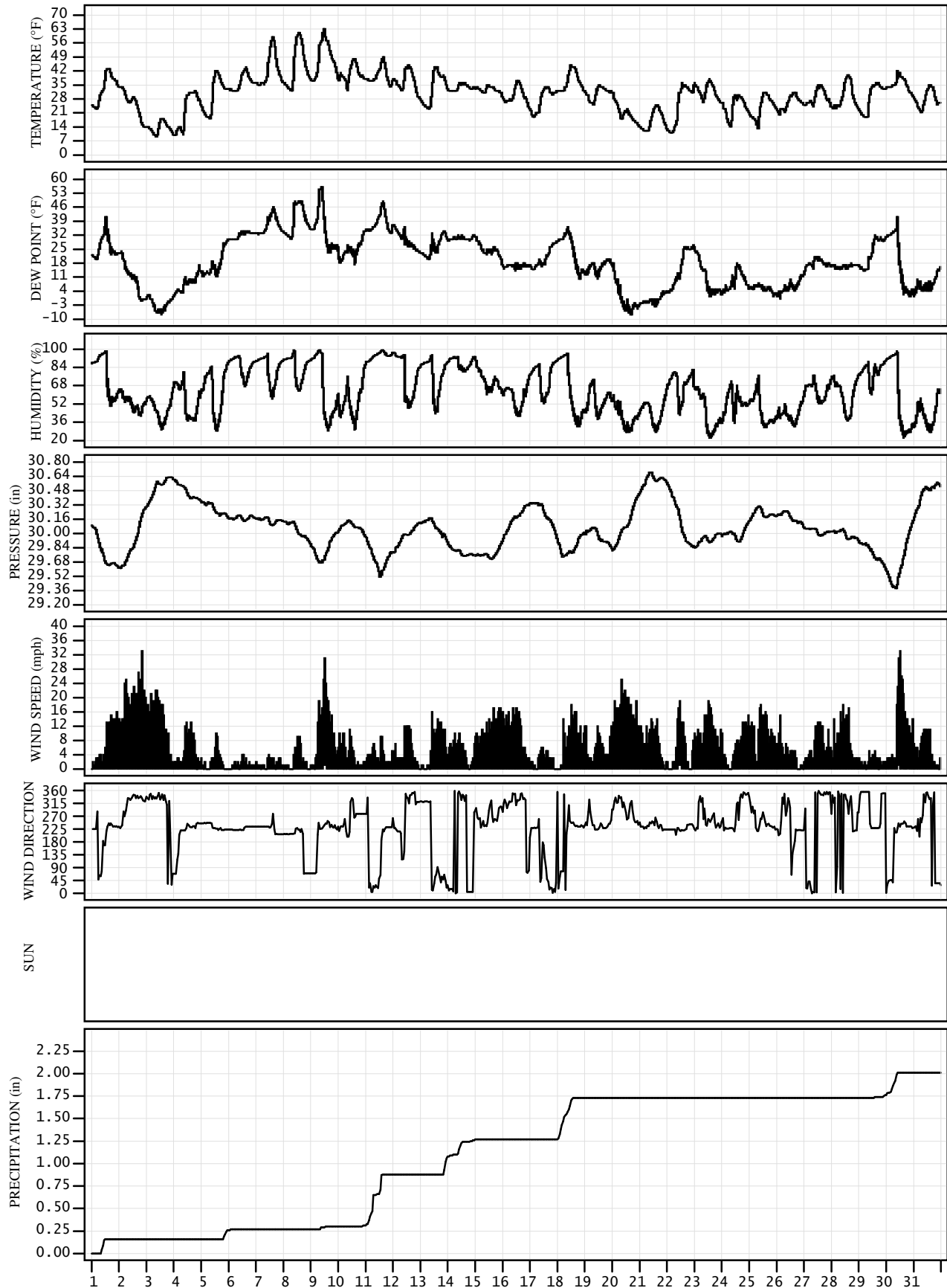


## HOURLY PRECIPITATION (Water Equivalent) January 2008: Oakland, NJ

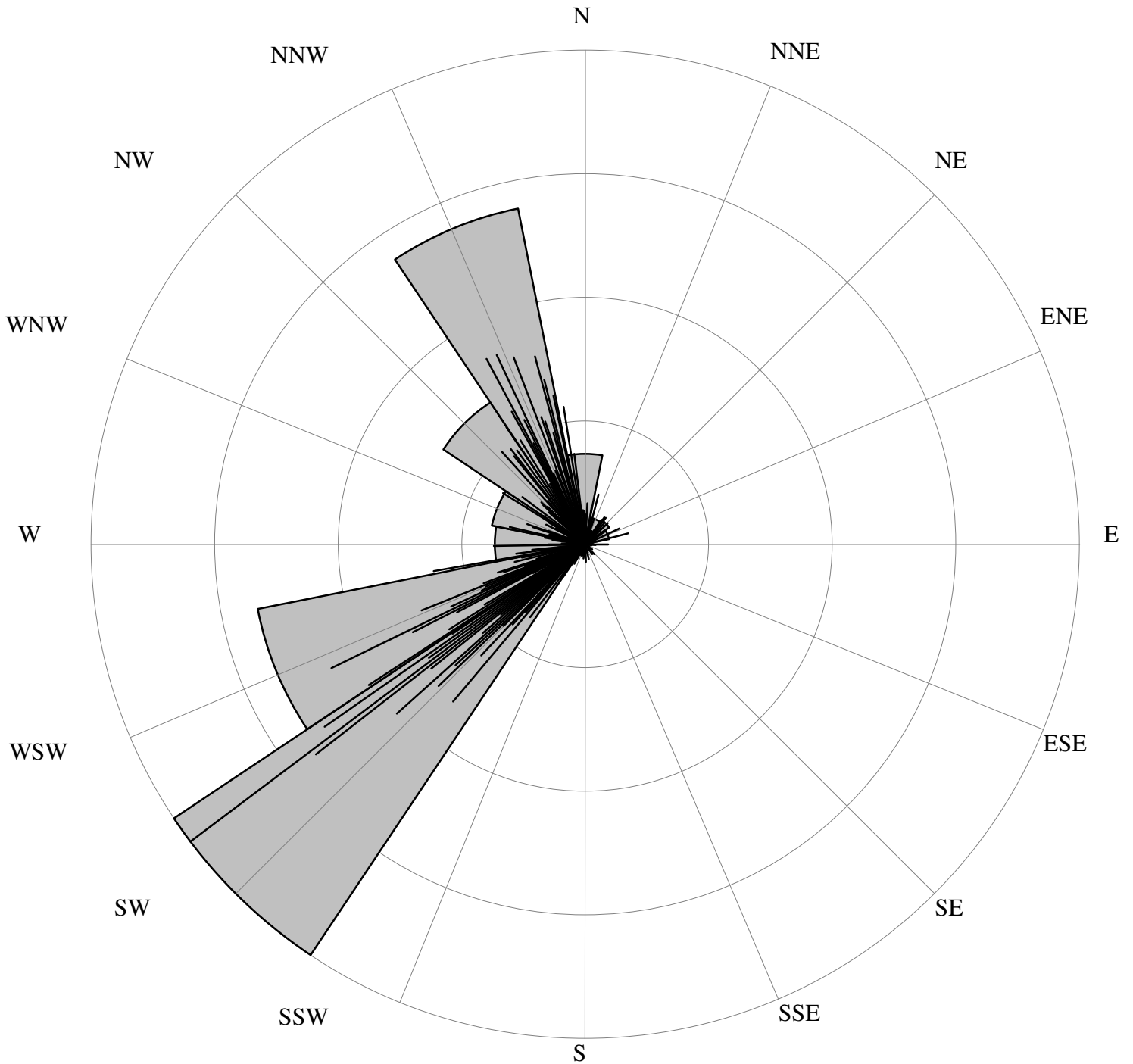
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01								0.04	0.05	0.06	0.01													01	
02																									02
03																									03
04																									04
05																			0.03	0.02	0.03	0.02			05
06		0.01																							06
07																									07
08																									08
09								0.02				0.01													09
10																				0.01					10
11	0.02		0.04	0.04	0.04	0.02	0.18		0.01			0.05	0.16	0.01											11
12																									12
13																				0.05	0.09	0.04	0.02		13
14		0.01			0.01			0.01	0.05	0.04	0.03	0.01							0.01				0.01		14
15																									15
16																									16
17																									17
18	0.01	0.05	0.05	0.05	0.04	0.05	0.02	0.01	0.02	0.03	0.04	0.06	0.02	0.01											18
19																									19
20																									20
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29													0.01								0.01	0.01			29
30	0.02	0.01		0.01	0.03	0.03	0.04	0.02	0.07	0.02															30
31																									31
Sum	0.05	0.08	0.09	0.10	0.12	0.10	0.24	0.03	0.16	0.16	0.14	0.10	0.09	0.18	0.01	0.00	0.00	0.00	0.00	0.04	0.07	0.15	0.07	0.03	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  
January 2008: Oakland, NJ



Wind Rose: January 2008  
Oakland, NJ



Maximum direction of wind: 52.1 miles from 233°  
Maximum sector of wind: 370.4 miles from SW  
1297.2 total miles of wind