

LOCAL CLIMATOLOGICAL DATA

Monthly Summary September 2007

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	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	76.3	54.7	65.5	64.4	55	73	0	1	.....	0	0.00	0.0	30.19	29.98	30.088	0.7	0.6	350	13	NNW	5	354	
2	75.4	48.3	61.9	60.6	51	76	3	0	.....	0	0.01	0.0	30.28	30.14	30.207	0.3	0.2	271	6	NNW	3	346	
3	81.6	52.2	66.9	66.3	59	79	0	2	.....	0	0.00	0.0	30.15	29.91	30.017	0.6	0.6	227	13	S	4	239	
4	79.8	59.6	69.7	69.1	59	72	0	5	.....	0	0.00	0.0	30.00	29.90	29.938	0.7	0.6	322	11	NNW	4	7	
5	74.4	54.4	64.4	64.2	55	76	1	0	.....	0	0.00	0.0	30.17	30.00	30.086	0.3	0.2	8	7	NNE	3	95	
6	81.2	56.5	68.9	67.2	59	77	0	4	.....	0	0.00	0.0	30.26	30.16	30.209	0.5	0.4	196	10	SE	6	148	
7	87.2	60.4	73.8	72.5	66	81	0	9	.....	0	0.00	0.0	30.22	30.02	30.120	0.6	0.5	219	9	NW	4	229	
8	88.2*	67.4	77.8*	76.2	69	79	0	13	.....	0	0.05	0.0	30.06	29.95	30.012	0.6	0.6	222	13	SW	4	235	
9	84.5	65.0	74.8	73.5	67	82	0	10	.....	0	0.00	0.0	30.02	29.93	29.980	0.3	0.3	232	8	SW	3	243	
10	79.6	67.9	73.8	74.0	71	91	0	9	.....	0	0.65	0.0	29.94	29.87	29.907	0.3	0.2	131	9	ENE	5	169	
11	72.3	62.7	67.5	69.1	69	99	0	3	.....	0	0.42	0.0	29.89	29.57	29.676	0.2	0.1	258	11	NNW	4	346	
12	72.3	52.2	62.3	61.4	51	73	3	0	.....	0	0.00	0.0	30.10	29.68	29.895	1.0	0.9	277	16	W	8	303	
13	74.2	47.7	61.0	59.3	51	79	4	0	.....	0	0.00	0.0	30.20	30.10	30.141	0.2	0.1	237	7	WSW	3	230	
14	71.3	51.4	61.4	62.7	57	83	4	0	.....	0	0.00	0.0	30.15	29.90	30.064	0.5	0.4	191	10	S	4	165	
15	67.8	50.2	59.0	60.8	52	75	6	0	.....	0	0.07	0.0	30.15	29.78	29.923	1.2	1.1	319	19	SSW	7	6	
16	63.2	43.6	53.4	51.9	43	75	11	0	.....	0	0.00	0.0	30.30	30.15	30.226	0.5	0.4	0	9	E	4	345	
17	66.9	39.3*	53.1*	48.2	44	88	12	0	.....	0	0.00	0.0	30.38	30.30	30.337	0.1	0.0	313	9	NW	3	1	
18	69.8	41.6	55.7	53.9	47	80	9	0	.....	0	0.00	0.0	30.39	30.29	30.340	0.4	0.4	15	7	E	4	99	
19	74.7	42.3	58.5	56.9	50	80	6	0	.....	0	0.00	0.0	30.30	30.16	30.238	0.2	0.1	238	5	NW	3	236	
20	80.5	48.8	64.6	62.7	56	82	0	0	.....	0	0.00	0.0	30.17	30.04	30.116	0.2	0.2	214	5	SW	3	225	
21	81.2	52.8	67.0	64.8	58	82	0	2	.....	0	0.00	0.0	30.14	30.05	30.090	0.2	0.1	211	6	SE	3	255	
22	70.6	52.8	61.7	62.2	62	98	3	0	.....	0	0.29	0.0	30.08	29.97	30.026	0.0	0.0	260	4	S	2	215	
23	77.9	52.2	65.1	63.7	54	76	0	0	.....	0	0.00	0.0	30.14	30.00	30.093	0.6	0.5	328	14	WNW	5	312	
24	77.9	47.9	62.9	60.4	50	74	2	0	.....	0	0.00	0.0	30.24	30.12	30.170	0.3	0.2	246	7	W	3	234	
25	84.7	48.3	66.5	64.6	56	79	0	2	.....	0	0.00	0.0	30.13	29.98	30.056	0.5	0.4	224	12	WSW	4	234	
26	85.9	59.5	72.7	70.7	65	84	0	8	.....	0	0.00	0.0	30.00	29.88	29.945	0.3	0.3	221	10	WSW	4	240	
27	81.4	63.7	72.6	71.1	67	87	0	8	.....	0	0.00	0.0	29.96	29.76	29.885	0.4	0.4	185	11	SE	5	175	
28	73.7	56.0	64.9	65.6	57	76	0	0	.....	0	0.02	0.0	29.97	29.74	29.823	0.9	0.8	308	18	W	8	327	
29	73.9	49.9	61.9	60.7	48	66	3	0	.....	0	0.00	0.0	30.36	29.97	30.190	1.1	0.9	329	14	W	6	337	
30	70.9	45.4	58.2	56.3	49	80	7	0	.....	0	0.00	0.0	30.46	30.36	30.426	0.3	0.2	157	6	E	3	85	
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		For the month:			---											
2299	1595					74	76			1.51	0.0	30.46	29.57	30.074	0.5	0.2	276	19	SSW	8	327			
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
76.6	53.2	64.9	63.8	57	80.1	----	----	≥.01 inch		7	32.04	0.0	30	11	-----	----	----	---	15	28				
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			108	695	Thunder		0	Precipitation		Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog		0	0.88	10-11	0.0	-	0			-								
0	0	0	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/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 September 2007: Oakland, NJ

Hour	Wind									Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind																																																																																																																																																																																																							
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust							Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust																																																																																																																																																																																															
SEP 19																		SEP 20																		SEP 21																																																																																																																																																																																			
01	30.30	0.00	46	45	96	16	0	0		30.17	0.00	53	52	97	26	0	0		30.09	0.00	57	56	97	20	0	0	04	30.28	0.00	44	43	97	16	0	0		30.14	0.00	50	50	98	26	0	0		30.07	0.00	55	54	98	20	0	0	07	30.30	0.00	43	42	98	16	0	0		30.16	0.00	49	49	98	26	0	0		30.11	0.00	53	53	100	20	0	0	10	30.28	0.00	59	51	74	16	0	2		30.15	0.00	63	58	84	24	0	2		30.14	0.00	66	64	91	34	0	3	13	30.24	0.00	69	49	48	28	1	4		30.11	0.00	76	58	55	17	1	3		30.10	0.00	78	62	57	30	1	4	16	30.17	0.00	74	51	44	24	1	3		30.06	0.00	81	58	47	17	0	3		30.06	0.00	81	62	53	15	0	3	19	30.18	0.00	64	57	78	26	0	1		30.07	0.00	69	63	82	20	0	0		30.07	0.00	69	62	76	13	0	0	22	30.19	0.00	56	54	93	26	0	0		30.10	0.00	60	59	95	20	0	0		30.08	0.00	60	58	93	13	0	0
SEP 22																		SEP 23																		SEP 24																																																																																																																																																																																			
01	30.07	0.00	55	54	96	13	0	0		30.01	0.00	67	67	100	18	0	0		30.16	0.00	55	50	83	08	0	2	04	30.06	0.00	54	53	98	13	0	0		30.05	0.00	62	62	100	18	0	1		30.16	0.00	50	48	94	08	0	1	07	30.06	0.00	53	53	99	13	0	0		30.11	0.00	54	54	100	18	0	0		30.21	0.00	48	46	94	01	0	0	10	30.07	0.00	63	62	98	13	0	1		30.14	0.00	57	57	100	30	0	5		30.24	0.00	61	53	75	27	0	0	13	30.04	0.05	66	65	97	22	0	1		30.12	0.00	72	49	45	02	3	8		30.20	0.00	74	51	45	21	1	3	16	29.99	0.00	69	69	99	28	0	1		30.08	0.00	78	48	35	32	1	6		30.13	0.00	78	51	39	29	0	6	19	29.97	0.00	69	69	100	28	0	0		30.10	0.00	64	55	74	32	0	0		30.13	0.00	64	56	76	24	0	0	22	29.98	0.00	66	66	100	28	0	0		30.14	0.00	55	53	91	32	0	2		30.13	0.00	55	52	91	24	0	0
SEP 25																		SEP 26																		SEP 27																																																																																																																																																																																			
01	30.13	0.00	51	50	96	24	0	0		30.00	0.00	62	61	95	33	0	0		29.94	0.00	66	66	99	22	0	0	04	30.11	0.00	50	49	99	24	0	0		29.98	0.00	61	61	99	33	0	0		29.93	0.00	64	64	100	22	0	0	07	30.12	0.00	49	48	99	24	0	0		29.98	0.00	60	59	99	33	0	0		29.95	0.00	64	64	99	22	0	0	10	30.09	0.00	64	60	86	24	1	2		29.97	0.00	70	64	80	22	0	2		29.94	0.00	71	67	87	22	0	3	13	30.05	0.00	81	61	51	24	1	5		29.92	0.00	81	68	64	24	1	5		29.90	0.00	77	68	74	20	1	5	16	29.99	0.00	84	59	43	21	1	7		29.89	0.00	86	68	55	22	3	7		29.85	0.00	80	68	67	18	4	11	19	29.98	0.00	72	65	79	33	0	0		29.89	0.00	76	70	82	22	0	0		29.79	0.00	74	68	82	31	0	2	22	29.99	0.00	64	62	91	33	0	0		29.93	0.00	69	68	95	22	0	0		29.80	0.00	71	69	92	25	0	1
SEP 28																		SEP 29																		SEP 30																																																																																																																																																																																			
01	29.76	0.00	69	66	91	35	0	1		29.99	0.00	57	49	73	22	3	9		30.37	0.00	49	47	93	25	0	1	04	29.74	0.00	65	62	92	35	0	0		30.05	0.00	56	50	80	30	2	6		30.39	0.00	47	45	95	25	0	0	07	29.75	0.00	64	62	92	19	0	1		30.13	0.00	55	50	83	21	1	3		30.43	0.00	46	44	94	25	0	0	10	29.82	0.00	68	57	69	14	1	11		30.22	0.00	62	50	66	32	4	9		30.46	0.00	59	50	73	03	0	3	13	29.83	0.00	70	53	55	27	4	10		30.24	0.00	70	46	43	00	1	12		30.44	0.00	68	51	54	03	0	4	16	29.82	0.00	73	52	47	00	3	7		30.22	0.00	73	44	35	33	2	7		30.42	0.00	70	50	50	19	0	4	19	29.88	0.00	60	54	82	13	0	3		30.28	0.00	62	50	63	25	0	0		30.42	0.00	61	53	75	18	0	0	22	29.96	0.00	58	51	77	31	1	4		30.34	0.00	53	48	85	25	0	0		30.45	0.00	53	51	92	18	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		30.070	58	56	92	0.2	24	0.1
04		30.066	56	55	95	0.1	34	0.1
07		30.092	55	54	95	0.1	18	0.0
10		30.096	65	58	78	0.8	31	0.4
13		30.071	73	57	59	1.3	28	0.5
16		30.045	76	56	53	1.3	25	0.6
19		30.041	68	60	76	0.0	21	0.0
22		30.083	61	58	90	0.1	29	0.1

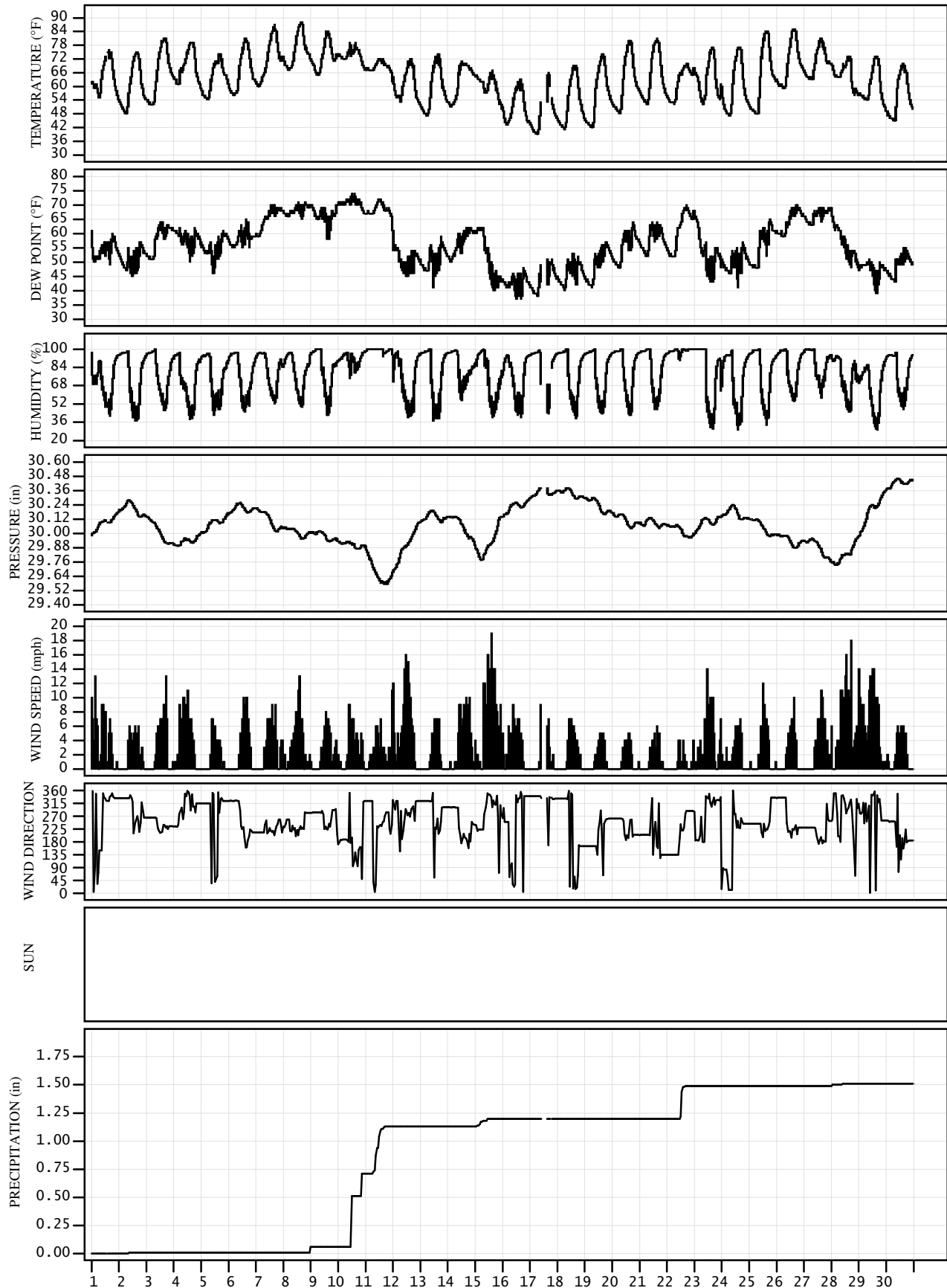
HOURLY PRECIPITATION (Water Equivalent) September 2007: Oakland, NJ

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									0.01																03	
04																									04	
05																									05	
06																									06	
07																									07	
08																									08	
09																									09	
10												0.45								0.20					10	
11							0.02	0.01	0.13	0.07		0.10	0.05	0.02		0.01	0.01								11	
12																									12	
13																									13	
14																									14	
15		0.01		0.01	0.02		0.01				0.02														15	
16																									16	
17																									17	
18																									18	
19																									19	
20																									20	
21																									21	
22												0.02	0.22	0.04		0.01									22	
23																									23	
24																									24	
25																									25	
26																									26	
27																									27	
28	0.01									0.01															28	
29																									29	
30																									30	
Sum	0.01	0.01	0.00	0.01	0.02	0.00	0.03	0.01	0.14	0.08	0.02	0.57	0.27	0.06	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.05	Sum

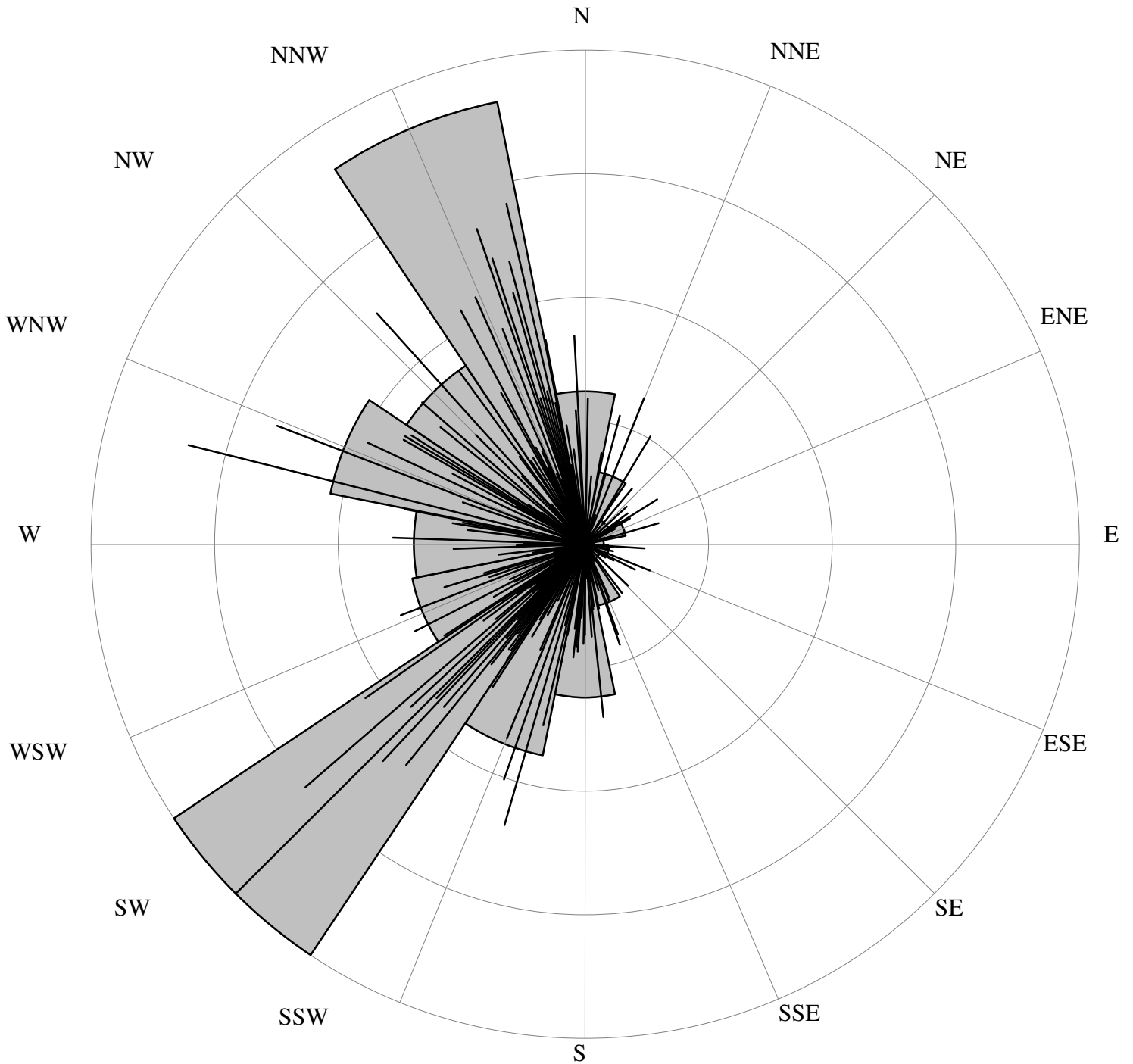
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

September 2007: Oakland, NJ



Wind Rose: September 2007
Oakland, NJ



Maximum direction of wind: 8.1 miles from 225°
Maximum sector of wind: 64.7 miles from SW
334.1 total miles of wind