

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

May 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 Speed	Res Speed	Res Dir	Peak			Minute	
																				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	69.9	40.6	55.3	57.0	33	46	9	0	.....	0	0.15	0.0	29.99	29.81	29.903	1.2	0.9	253	12	WNW	6	212	
2	68.6	49.2	58.9	56.5	44	68	6	0	.....	0	0.07	0.0	30.05	29.71	29.858	2.0	1.6	342	16	NNW	10	8	
3	71.3	37.5	54.4	55.9	26	38	10	0	.....	0	0.00	0.0	30.19	30.05	30.127	1.6	1.5	341	13	NW	8	1	
4	69.4	36.0	52.7	54.5	26	39	12	0	.....	0	0.00	0.0	30.23	30.06	30.149	1.4	1.3	335	19	N	9	351	
5	72.8	37.0	54.9	56.7	29	43	10	0	.....	0	0.00	0.0	30.13	29.97	30.069	1.5	1.3	343	19	N	10	350	
6	63.4	40.2	51.8	51.9	30	45	13	0	.....	0	0.00	0.0	30.44	30.11	30.305	3.5	3.0	9	24	WNW	11	3	
7	67.6	34.7*	51.1*	51.3	31	56	13	0	.....	0	0.00	0.0	30.45	30.29	30.374	0.8	0.4	174	9	S	5	188	
8	76.8	35.9	56.4	56.4	37	57	8	0	.....	0	0.00	0.0	30.31	30.08	30.180	1.1	1.1	217	13	SW	6	202	
9	83.4	45.2	64.3	65.1	54	73	1	0	.....	0	0.00	0.0	30.10	29.95	30.034	1.2	1.2	216	15	WSW	6	217	
10	80.1	57.3	68.7	67.3	61	83	0	4	.....	0	0.00	0.0	29.98	29.86	29.933	0.9	0.9	213	13	WSW	6	165	
11	80.3	60.2	70.3	67.4	62	84	0	5	.....	0	0.00	0.0	29.89	29.75	29.823	0.5	0.3	188	10	SSE	5	217	
12	76.5	53.5	65.0	63.6	52	70	0	1	.....	0	0.03	0.0	30.01	29.84	29.926	1.1	0.0	231	14	WNW	5	174	
13	69.1	44.5	56.8	56.9	32	46	8	0	.....	0	0.00	0.0	30.19	29.98	30.072	2.1	2.0	357	19	N	9	9	
14	70.9	35.8	53.4	55.2	31	47	11	0	.....	0	0.00	0.0	30.27	30.10	30.197	1.1	1.0	219	12	WSW	6	223	
15	86.3	49.4	67.9	67.8	49	54	0	3	.....	0	0.00	0.0	30.13	29.71	29.871	2.0	2.0	222	17	S	8	223	
16	83.4	55.6	69.5	67.8	60	79	0	5	.....	0	1.03	0.0	29.79	29.54	29.678	1.2	1.2	224	35	W	15	270	
17	67.1	52.9	60.0	58.2	49	73	5	0	.....	0	0.00	0.0	30.15	29.79	29.978	1.0	0.2	345	14	NNW	6	5	
18	61.8	48.3	55.0	52.8	44	74	10	0	.....	0	0.00	0.0	30.15	30.00	30.081	1.4	1.3	25	13	N	5	343	
19	54.2	48.9	51.6	51.0	46	83	13	0	.....	0	0.18	0.0	30.00	29.82	29.912	0.6	0.5	324	12	WNW	5	304	
20	74.4	49.6	62.0	60.4	49	68	3	0	.....	0	0.03	0.0	29.85	29.68	29.753	1.5	1.4	276	16	SSW	6	233	
21	70.1	45.7	57.9	57.9	42	57	7	0	.....	0	0.00	0.0	30.18	29.84	30.014	1.5	1.3	315	16	NW	8	322	
22	74.6	39.5	57.0	57.2	40	61	7	0	.....	0	0.00	0.0	30.34	30.18	30.258	0.6	0.3	293	12	SW	5	233	
23	76.3	44.8	60.6	60.1	49	71	4	0	.....	0	0.00	0.0	30.41	30.34	30.367	0.7	0.7	209	16	SSW	5	166	
24	84.7	48.9	66.8	66.8	53	67	0	2	.....	0	0.00	0.0	30.40	30.21	30.312	0.6	0.6	222	10	WSW	4	215	
25	88.8*	57.0	72.9*	72.5	58	65	0	8	.....	0	0.00	0.0	30.21	30.04	30.129	0.4	0.4	217	7	SW	3	212	
26	80.3	61.0	70.7	71.1	59	68	0	6	.....	0	0.00	0.0	30.09	30.02	30.053	0.9	0.8	309	11	W	5	338	
27	85.3	59.3	72.3	71.2	56	62	0	7	.....	0	0.00	0.0	30.14	30.00	30.063	0.6	0.5	203	12	SE	4	248	
28	83.2	56.5	69.9	71.6	58	64	0	5	.....	0	0.00	0.0	30.10	29.98	30.031	0.6	0.5	265	9	NNW	4	247	
29	78.5	48.8	63.6	63.5	49	63	1	0	.....	0	0.00	0.0	30.22	30.10	30.158	0.7	0.7	336	14	NNW	5	321	
30	83.4	49.2	66.3	66.3	51	64	0	1	.....	0	0.00	0.0	30.19	30.06	30.130	0.4	0.3	260	7	NNW	3	306	
31	88.6	56.2	72.4	71.5	57	65	0	8	.....	0	0.00	0.0	30.08	29.98	30.045	0.5	0.1	180	12	S	4	188	
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		For the month:						---								
2341	1479					151	55			1.49	0.0	30.45	29.54	30.057	1.1	0.4	293	35	W	15	270			
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
75.5	47.7	61.6	61.4	46	62.2	----	----	≥.01 inch		6	17.08	20.4	7	16	-----	----	----	---	16	16				
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			5497	55	Thunder		0	Precipitation		Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog		0	1.03	16	0.0		-	0										
0	0	0	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 2007: Oakland, NJ

Hour	Wind									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	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																																																																																																																																																																																																
MAY 01																														MAY 02																														MAY 03																																																																																																																																																																											
01		29.88	0.00	52	28	39	34	0	2		29.79	0.11	52	51	96	22	3	6		30.08	0.00	52	32	47	34	3	6		04		29.91	0.00	44	33	65	21	1	2		29.72	0.00	50	49	96	22	0	0		30.12	0.00	41	34	74	04	0	0		07		29.97	0.00	43	35	74	08	0	1		29.77	0.00	52	52	100	13	0	0		30.18	0.00	39	35	83	04	0	0		10		29.99	0.00	60	30	32	31	2	6		29.85	0.00	53	45	76	34	5	9		30.19	0.00	59	22	24	23	1	10		13		29.95	0.00	68	30	24	01	3	12		29.89	0.00	62	45	55	35	2	13		30.15	0.00	66	17	15	00	3	10		16		29.87	0.00	68	25	20	24	2	5		29.88	0.00	66	40	38	03	4	6		30.08	0.00	71	21	15	17	2	10		19		29.86	0.00	65	35	33	22	2	6		29.91	0.00	65	30	26	30	0	7		30.08	0.00	67	18	15	33	1	7		22		29.86	0.10	55	48	77	19	0	3		30.02	0.00	54	35	49	32	1	5		30.13	0.00	50	25	38	32	0	2	
MAY 04																														MAY 05																														MAY 06																																																																																																																																																																											
01		30.16	0.00	52	25	35	11	1	3		30.13	0.00	43	35	73	33	0	1		30.13	0.00	52	20	28	03	3	15		04		30.18	0.00	40	29	67	09	0	0		30.12	0.00	39	34	82	33	0	1		30.19	0.00	46	21	37	34	4	15		07		30.21	0.00	39	31	72	09	0	0		30.12	0.00	39	36	88	33	0	0		30.27	0.00	44	27	52	35	8	17		10		30.22	0.00	60	24	25	34	4	13		30.10	0.00	62	23	22	26	0	3		30.34	0.00	53	32	44	01	5	16		13		30.16	0.00	65	23	20	20	3	7		30.05	0.00	71	34	25	35	6	12		30.35	0.00	59	28	31	01	3	13		16		30.09	0.00	69	21	16	09	1	6		29.99	0.00	71	24	17	32	2	14		30.33	0.00	60	27	29	03	3	7		19		30.06	0.00	66	22	18	01	1	6		29.99	0.00	66	29	25	05	1	4		30.37	0.00	57	38	50	20	2	7		22		30.10	0.00	50	32	50	33	0	0		30.05	0.00	60	22	23	35	3	10		30.44	0.00	45	38	77	19	0	0	
MAY 07																														MAY 08																														MAY 09																																																																																																																																																																											
01		30.41	0.00	39	37	92	19	0	0		30.29	0.00	43	35	73	18	0	1		30.09	0.00	49	47	93	25	0	0		04		30.40	0.00	36	34	95	19	0	0		30.26	0.00	38	34	87	18	0	0		30.08	0.00	46	45	96	25	0	0		07		30.43	0.00	37	36	97	19	0	0		30.25	0.00	38	36	93	18	0	0		30.10	0.00	47	47	99	25	0	1		10		30.45	0.00	56	35	46	00	3	5		30.22	0.00	60	33	36	30	1	4		30.09	0.00	70	57	63	23	2	6		13		30.38	0.00	64	29	27	02	1	4		30.16	0.00	72	26	18	22	3	7		30.03	0.00	80	57	45	17	3	7		16		30.33	0.00	67	27	22	08	2	5		30.10	0.00	76	31	19	18	2	9		29.99	0.00	82	56	41	23	2	6		19		30.29	0.00	63	21	20	15	0	2		30.08	0.00	68	47	47	28	0	5		29.96	0.00	78	61	56	14	2	7		22		30.30	0.00	49	35	58	18	0	2		30.11	0.00	54	49	82	25	0	1		29.98	0.00	64	61	88	24	0	0	
MAY 10																														MAY 11																														MAY 12																																																																																																																																																																											
01		29.97	0.00	60	58	96	24	0	0		29.87	0.00	62	61	95	29	0	0		29.84	0.00	59	58	97	34	0	4		04		29.96	0.00	58	58	100	24	0	0		29.86	0.00	63	60	92	29	0	0		29.88	0.00	59	55	87	07	0	0		07		29.97	0.00	61	61	100	24	0	0		29.86	0.00	62	60	92	16	0	0		29.94	0.00	59	55	88	04	0	3		10		29.97	0.00	70	63	78	25	2	6		29.84	0.00	66	61	84	15	1	3		29.97	0.00	65	48	55	35	4	9		13		29.95	0.00	75	63	66	22	3	7		29.79	0.00	74	62	68	17	0	2		29.94	0.00	72	49	44	20	1	5		16		29.88	0.00	78	62	59	24	2	10		29.76	0.00	80	64	59	33	1	5		29.90	0.00	75	53	47	23	2	6		19		29.88	0.00	72	62	72	25	0	6		29.78	0.00	71	64	80	11	0	0		29.93	0.00	63	50	63	20	1	4		22		29.91	0.00	66	62	90	21	0	0		29.83	0.00	63	62	96	11	0	1		29.99	0.17	57	52	83	17	0	2	
MAY 13																														MAY 14																														MAY 15																																																																																																																																																																											
01		29.99	0.00	54	52	96	13	0	0		30.20	0.00	49	28	45	09	0	0		30.11	0.00	52	39	62	21	0	0		04		30.01	0.00	48	45	90	33	0	3		30.22	0.00	39	32	77	09	0	0		30.03	0.00	50	40	69	21	0	2		07		30.07	0.00	49	31	51	06	2	12		30.26	0.00	39	34	83	09	0	1		29.99	0.00	53	44	72	23	1	6		10		30.12	0.00	57	31	38	35	4	14		30.27	0.00	59	25	27	22	0	5		29.90	0.00	66	48	53	20	2	4		13		30.10	0.00	64	25	22	35	6	18		30.23	0.00	67	22	18	18	2	7		29.80	0.00	80	55	42	23	3	7		16		30.06	0.00	68	21	17	05	1	9		30.16	0.00	70	27	20	24	2	9		29.73	0.00	85	51	31	23	6	14		19		30.08	0.00	64	20	18	32	2	7		30.12	0.00	66	38	35	24	1	4		29.72	0.00	80	58	46	22	3	7		22		30.15	0.00	50	31	49	30	1	4		30.14	0.00	52	40	64	19	0	0		29.74	0.00	73	59	61	22	2	7	
MAY 16																														MAY 17																														MAY 18																																																																																																																																																																											
01		29.72	0.00	69	58	66	23	1	5		29.80	0.00	54	54	98	20	0	2		30.14	0.00	53	47	78	14	0	6		04		29.71	0.00	62	58	84	22	0	0		29.85	0.00	53	50	89	18	0	1		30.10	0.00	52	47	84	04	2	6		07		29.70	0.00	61	58	91	22	0	0		29.93	0.00	53	48	81	07	1	5		30.15	0.00	49	42	77	35	2	5		10		29.67	0.00	75	60	60	22	2	11		29.99	0.00	59	47	66	33	3	9		30.12	0.00	49	42	77	34	3	6		13		29.61	0.00	81	59	47	22	5	14		30.02	0.00	66	45	47	03	2	5		30.11	0.00	52	43	70	34	2	7		16		29.61	0.00	64	63	94	15	1	3		30.02	0.00	66	42	42	27	1	4		30.03	0.00	58	45	63	06	2	6		19		29.65	0.00	66	65	97	22	0	0		30.05	0.00	62	52	70	09	0	2		30.00	0.00	58	42	56	31	1	5		22		29.74	0.00	60	60	100	04	0	3		30.12	0.00	56	50	81	20	0	2		30.02	0.00	51	46	82	06	0	0	

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Ended: Date	16	16	16	16	16	16	16	16	16	16	16	16
Ended: Time	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359

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 2007: 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	29.99	0.00	50	46	86	06	0	0	29.80	0.00	50	50	99	26	0	0	29.85	0.00	56	46	70	25	1	4			
04	29.96	0.00	52	42	70	29	0	5	29.76	0.00	50	48	94	20	0	4	29.90	0.00	53	43	69	29	2	10			
07	29.95	0.00	51	42	72	21	0	7	29.76	0.00	51	48	92	24	0	3	29.97	0.00	51	42	69	32	2	12			
10	29.95	0.00	53	42	65	00	2	8	29.75	0.00	61	48	63	26	2	11	30.04	0.00	55	41	58	33	4	11			
13	29.93	0.04	51	48	90	02	1	4	29.73	0.00	69	48	47	25	1	6	30.03	0.00	64	43	45	35	2	8			
16	29.88	0.00	51	49	92	21	0	2	29.68	0.00	72	46	39	03	2	7	30.05	0.00	69	42	38	28	1	7			
19	29.84	0.00	51	49	95	12	0	1	29.73	0.00	67	51	58	35	2	9	30.07	0.00	67	38	34	32	2	6			
22	29.83	0.00	50	49	96	26	0	0	29.80	0.00	61	50	68	28	3	7	30.15	0.00	50	43	75	31	0	0			
MAY 22									MAY 23									MAY 24									
01	30.19	0.00	44	40	87	31	0	0	30.34	0.00	49	46	90	25	0	0	30.38	0.00	53	50	91	16	0	0			
04	30.22	0.00	41	39	92	31	0	0	30.35	0.00	46	44	95	25	0	0	30.38	0.00	50	48	93	16	0	0			
07	30.27	0.00	42	40	93	31	0	0	30.39	0.00	47	46	97	25	0	0	30.39	0.00	51	50	96	16	0	0			
10	30.28	0.00	61	41	48	34	2	4	30.41	0.00	63	53	70	22	2	7	30.37	0.00	69	57	66	14	1	3			
13	30.26	0.00	69	33	26	20	0	4	30.38	0.00	73	51	45	21	3	6	30.31	0.00	81	55	41	26	1	4			
16	30.24	0.00	74	41	30	34	1	4	30.34	0.00	75	52	44	25	2	4	30.25	0.00	84	53	35	27	1	5			
19	30.25	0.00	69	46	44	19	3	6	30.34	0.00	69	51	53	24	0	3	30.22	0.00	80	54	41	24	0	5			
22	30.33	0.00	55	47	74	25	0	0	30.37	0.00	58	51	80	16	0	0	30.23	0.00	64	58	80	23	0	0			
MAY 25									MAY 26									MAY 27									
01	30.20	0.00	63	57	81	23	0	0	30.07	0.00	64	59	83	18	0	0	30.06	0.00	63	53	69	29	0	0			
04	30.20	0.00	58	56	92	23	0	0	30.03	0.00	62	59	88	18	0	2	30.07	0.00	61	54	78	29	0	0			
07	30.20	0.00	58	57	95	23	0	0	30.06	0.00	72	58	63	20	1	6	30.11	0.00	60	56	85	29	0	0			
10	30.17	0.00	76	62	62	22	1	3	30.08	0.00	75	63	65	26	0	6	30.13	0.00	68	61	77	02	1	3			
13	30.11	0.00	87	59	40	23	1	4	30.07	0.00	79	62	55	28	3	9	30.08	0.00	81	51	36	21	2	4			
16	30.06	0.00	87	58	37	28	0	2	30.03	0.00	78	60	54	30	1	4	30.01	0.00	85	56	38	21	2	7			
19	30.04	0.00	81	63	54	28	0	1	30.03	0.00	75	62	63	04	0	1	30.01	0.00	79	60	53	18	0	3			
22	30.07	0.00	68	60	74	18	0	0	30.06	0.00	67	55	65	29	0	1	30.04	0.00	70	63	77	26	1	4			
MAY 28									MAY 29									MAY 30									
01	30.04	0.00	70	57	62	29	0	1	30.12	0.00	55	48	76	00	0	1	30.16	0.00	54	50	89	02	0	0			
04	30.02	0.00	66	59	79	29	0	0	30.14	0.00	51	48	90	00	0	0	30.16	0.00	50	49	94	02	0	0			
07	30.04	0.00	67	61	82	25	0	2	30.20	0.00	51	49	93	11	1	2	30.18	0.00	52	50	96	02	0	0			
10	30.06	0.00	72	61	69	30	0	3	30.21	0.00	66	47	51	30	3	7	30.17	0.00	71	49	46	18	1	2			
13	30.03	0.00	81	62	53	22	3	6	30.18	0.00	73	48	41	34	2	5	30.14	0.00	79	48	34	00	2	6			
16	29.99	0.00	82	63	54	30	1	4	30.13	0.00	78	53	42	02	1	4	30.09	0.00	82	46	28	30	1	2			
19	30.00	0.00	77	54	44	00	0	3	30.11	0.00	75	49	40	03	0	1	30.06	0.00	78	59	52	26	0	1			
22	30.06	0.00	61	53	74	00	0	0	30.16	0.00	59	52	77	02	0	0	30.08	0.00	64	57	78	26	0	0			
MAY 31																											
01	30.08	0.00	59	55	88	26	0	0																			
04	30.06	0.00	57	54	92	26	0	0																			
07	30.07	0.00	59	57	95	26	0	0																			
10	30.07	0.00	79	58	50	26	0	2																			
13	30.04	0.00	87	57	36	14	0	2																			
16	29.99	0.00	89	57	35	16	1	3																			
19	30.00	0.00	79	59	51	11	0	2																			
22	30.07	0.00	68	56	65	18	1	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		30.060	54	46	77	0.4	31	0.1
04		30.059	50	45	84	0.3	34	0.2
07		30.089	51	46	85	0.6	35	0.4
10		30.096	63	45	55	2.0	33	1.1
13		30.062	71	44	41	2.3	30	0.7
16		30.018	73	44	39	1.6	26	0.4
19		30.015	69	47	49	0.9	26	0.3
22		30.061	58	48	72	0.4	28	0.2

HOUR-BY-HOUR DATA
May 2007: Oakland, NJ



