

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 2006

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																								
2																								
3																								
4																								
5																								
6	35.0	32.8	33.9	34.0	13	42	31	0	.....	0	T	T	29.80	29.77	29.782	4.7	4.6	229	14	SW	0	0	
7	41.9	27.3	34.6	33.8	16	49	30	0	.....	0	0.00	0.0	29.99	29.80	29.874	3.7	2.2	263	17	W	0	0	
8	34.0	21.0	27.5	28.2	15	59	37	0	.....	0	T	T	30.04	29.95	29.990	1.9	1.3	280	14	WSW	0	0	
9	34.6	20.3	27.4	26.8	6	43	37	0	.....	0	0.00	0.0	30.05	29.94	29.998	2.4	1.4	302	17	NW	0	0	
10	34.9	18.0	26.5	26.5	15	62	38	0	.....	0	T	T	30.15	30.05	30.089	1.6	1.4	226	14	SW	0	0	
11	35.8	23.8	29.8	28.6	21	74	35	0	.....	0	0.00	2.4	30.13	29.80	30.030	2.0	1.6	32	13	NNE	0	0	
12	26.3	20.3	23.3	23.4	18	80	42	0	.2.....9	0	0.00	13.6	29.80	29.53	29.629	4.5	3.6	5	21	N	0	0		
13	35.3	9.3*	22.3	23.9	13	65	43	0	.....	0	0.15	T	29.93	29.75	29.859	3.4	2.8	239	19	NW	0	0	
14	41.2	17.2	29.2	29.3	19	68	36	0	.....	0	0.16	0.0	30.14	29.93	30.026	2.3	2.2	222	14	SW	0	0	
15	55.9	18.3	37.1	34.6	23	67	28	0	.....	0	0.08	0.0	30.23	30.12	30.168	1.3	1.2	225	13	SW	0	0	
16	58.7*	25.4	42.1*	38.8	29	72	23	0	.....	0	0.00	0.0	30.28	30.03	30.191	0.9	0.8	221	11	SW	0	0	
17	53.5	28.2	40.9	39.3	24	61	24	0	.....	0	0.06	0.0	30.20	29.70	29.943	3.8	2.7	250	32	SW	0	0	
18	32.8	12.4	22.6	23.2	4	44	42	0	.....	0	T	T	30.31	30.06	30.164	4.4	2.6	306	26	N	0	0	
19	29.3	11.9	20.6*	19.5	-3	38	44	0	.....	0	0.00	0.0	30.38	30.19	30.286	2.9	2.6	239	15	SW	0	0	
20	35.3	10.5	22.9	22.4	6	53	42	0	.....	0	0.00	0.0	30.21	29.98	30.093	1.5	1.3	229	14	SW	0	0	
21	39.3	16.2	27.8	27.5	13	57	37	0	.....	0	0.00	0.0	30.04	29.86	29.946	2.0	1.9	241	20	SW	0	0	
22	44.3	16.4	30.3	30.3	20	68	35	0	.....	0	0.00	0.0	30.10	29.93	30.015	1.3	1.3	225	15	SW	0	0	
23	47.6	26.3	36.9	35.4	28	76	28	0	.....	0	0.00	0.0	29.93	29.74	29.838	1.4	0.7	248	16	WSW	0	0	
24	36.8	25.7	31.3	31.1	9	42	33	0	.....	0	0.00	0.0	30.32	29.79	30.046	4.9	2.9	280	36	NNW	0	0	
25	46.5	23.5	35.0	32.6	12	42	29	0	.....	0	0.00	0.0	30.32	29.72	30.041	3.6	2.3	243	26	NW	0	0	
26	26.6	15.2	20.9	20.1	-1	40	44	0	.....	0	0.00	0.0	30.13	30.03	30.100	5.2	4.5	329	26	N	0	0	
27	28.7	12.8	20.8	19.6	-1	41	44	0	.....	0	0.00	0.0	30.07	29.88	29.981	2.9	1.9	307	24	N	0	0	
28	32.4	12.9	22.7	22.5	4	48	42	0	.....	0	0.00	0.0	29.92	29.76	29.836	2.4	1.5	266	22	SE	0	0	
Sum	Sum	-----	-----	---	----	Ttl	Ttl															---		
887	446					824	0		Number of Days	0.45	16.0	30.38	29.53	29.997	2.8	1.4	270	36	NNW	0	0			
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip	Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
38.6	19.4	29.0	28.3	13	56.1	----	----		≥.01 inch	4	0.45	16.0	19	12	-----	----	----	---	24	6+				
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			824	0	Thunder	0	Precipitation		Snow, Ice Plts												
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	1	0.24	13-14	13.6	12	0					-							
0	5	22	0	----	----	Clear	21	Partly Cloudy	0	Cloudy	2													

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.

OBSERVER NOTES:
 A major snowstorm occurred on the 11-12th, with wind events on the 17th and 24th. Otherwise, this was a relatively tranquil month.

OBSERVATIONS AT 3-HOUR INTERVALS

February 2006: 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		30.31	0.00	13	-6	43	27	3	8	30.20	0.00	14	5	67	24	0	1	29.98	0.00	18	11	73	00	0	0		
04		30.32	0.00	13	-6	43	27	2	9	30.17	0.00	12	8	81	24	0	1	29.94	0.00	20	14	77	24	0	1		
07		30.35	0.00	13	-3	49	22	2	7	30.17	0.00	11	6	81	24	0	1	29.95	0.00	16	12	82	00	0	0		
10		30.36	0.00	19	-3	37	29	3	9	30.14	0.00	26	3	36	22	4	10	29.93	0.00	34	13	40	22	4	14		
13		30.28	0.00	27	-4	26	22	5	13	30.06	0.00	32	2	27	22	4	9	29.89	0.00	37	13	37	24	5	12		
16		30.23	0.00	28	-6	22	22	5	12	30.00	0.00	35	4	26	24	3	6	29.88	0.00	38	13	35	24	4	11		
19		30.23	0.00	25	-1	33	22	4	6	30.01	0.00	26	8	47	00	0	0	29.97	0.00	31	14	48	24	0	2		
22		30.21	0.00	19	3	49	24	0	2	30.01	0.00	21	10	61	24	0	1	30.03	0.00	24	15	67	24	0	2		
FEB 22									FEB 23									FEB 24									
01		30.05	0.00	20	15	80	24	0	2	29.92	0.00	29	27	90	00	0	0	29.81	0.00	32	27	82	27	2	5		
04		30.06	0.00	18	14	84	00	0	0	29.86	0.00	31	28	87	00	0	0	29.82	0.00	35	16	47	24	4	19		
07		30.08	0.00	18	15	89	00	0	0	29.86	0.00	32	28	87	20	0	1	29.92	0.00	30	10	43	24	5	14		
10		30.08	0.00	33	19	55	22	1	3	29.85	0.00	38	31	76	20	3	6	29.99	0.00	33	10	38	27	8	23		
13		30.00	0.00	43	19	37	22	5	10	29.77	0.00	46	31	57	22	4	9	30.06	0.00	36	10	34	00	6	21		
16		29.94	0.00	43	23	45	22	3	7	29.77	0.00	43	34	70	29	1	4	30.16	0.00	33	1	25	33	8	22		
19		29.96	0.00	37	27	68	20	1	2	29.85	0.00	38	27	65	02	0	2	30.25	0.00	29	-1	27	29	3	10		
22		29.95	0.00	30	25	81	00	0	0	29.83	0.00	28	23	83	02	1	2	30.31	0.00	27	1	33	20	2	21		
FEB 25									FEB 26									FEB 27									
01		30.32	0.00	25	4	41	09	1	3	30.06	0.00	23	6	48	31	5	13	30.07	0.00	17	-3	41	27	4	14		
04		30.28	0.00	24	8	52	15	0	1	30.12	0.00	17	3	54	33	6	13	30.04	0.00	15	0	50	20	2	10		
07		30.23	0.00	24	8	48	20	1	3	30.13	0.00	15	4	60	29	2	7	30.05	0.00	15	2	56	27	2	6		
10		30.11	0.00	30	9	41	22	5	12	30.11	0.00	23	1	37	00	5	17	30.01	0.00	20	-1	39	29	4	13		
13		29.91	0.00	38	15	38	22	6	13	30.08	0.00	26	-6	24	33	6	22	29.95	0.00	26	-4	27	00	7	21		
16		29.73	0.00	46	22	38	22	5	11	30.08	0.00	24	-7	25	00	6	16	29.92	0.00	27	-4	25	33	6	14		
19		29.82	0.00	44	15	31	00	5	14	30.12	0.00	18	-8	30	29	4	12	29.93	0.00	22	-4	31	22	0	1		
22		29.99	0.00	30	10	43	27	8	21	30.09	0.00	17	-5	37	33	4	11	29.91	0.00	14	2	58	00	0	0		
FEB 28																											
01		29.88	0.00	13	4	66	00	0	0																		
04		29.85	0.00	15	9	77	22	1	2																		
07		29.89	0.00	19	8	60	11	2	14																		
10		29.91	0.00	24	5	43	31	4	10																		
13		29.83	0.00	30	0	28	24	4	12																		
16		29.78	0.00	31	-1	25	22	4	10																		
19		29.78	0.00	25	3	37	24	0	2																		
22		29.78	0.00	19	8	64	24	0	2																		

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		30.025	24	14	67	1.8	29	1.1
04		30.010	22	13	69	1.5	27	0.8
07		30.023	21	13	71	1.4	27	0.6
10		30.018	31	15	54	4.0	26	2.5
13		29.972	36	13	40	4.7	25	2.7
16		29.962	36	12	39	4.3	27	2.8
19		30.009	30	13	51	1.9	29	1.2
22		30.017	26	13	61	1.9	28	1.2

HOURLY PRECIPITATION (Water Equivalent) February 2006: 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																									03
04																									04
05																									05
06																									06
07																									07
08																									08
09																									09
10																									10
11																									11
12																									12
13														0.01	0.08	0.04	0.02								13
14													0.04	0.04	0.03	0.02	0.01								14
15										0.01	0.02	0.02	0.02	0.02	0.01										15
16																									16
17								0.03	0.02		0.01														17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
Sum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.01	0.05	0.06	0.07	0.12	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 2006: Oakland, NJ



