

# Climatography of the United States

## No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: ATLANTIC CITY MARINA, NJ

1971-2000

COOP ID: 280325

Climate Division: NJ 3

NWS Call Sign: 0325

Elevation: 10 Feet

Lat: 39° 23N

Lon: 74° 26W

Temperature (°F)																					
Mean (1)				Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
Month	Daily Max	Daily Min	Mean	Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max ≥ 100	Max ≥ 90	Max ≥ 50	Max ≤ 32	Min ≤ 32	Min ≤ 0
Jan	41.4	29.0	35.2	70	1967	24	43.5	1990	-3	1994	19	24.8	1977	924	0	.0	.0	6.4	5.6	20.9	.1
Feb	43.2	30.6	36.9	72	1976	17	43.0	1990	1	1961	2	27.8	1979	787	0	.0	.0	6.8	3.8	16.8	.0
Mar	49.5	37.0	43.3	82	1998	29	49.0	1973	4	2000	25	38.3	1996	674	0	.0	.0	15.1	.5	9.3	.0
Apr	57.5	45.2	51.4	91	1960	25	54.8	1973	22	1982	7	46.7	1975	409	0	.0	@	26.4	.0	1.2	.0
May	66.1	54.8	60.5	94	1969	29	66.0	1991	36	1966	10	56.2	1978	167	25	.0	.3	30.8	.0	.0	.0
Jun	74.8	63.9	69.4	99	1952	26	73.4	1984	45	1972	11	65.3	1972	18	147	.0	.3	30.0	.0	.0	.0
Jul	80.6	69.8	75.2	101	1999	5	78.6	1999	53+	1979	6	71.4	1978	0	316	.1	2.5	31.0	.0	.0	.0
Aug	79.8	69.7	74.8	102	1983	20	78.4	1984	50	1986	29	71.0	1994	0	302	@	1.4	31.0	.0	.0	.0
Sep	74.1	63.6	68.9	92+	1952	13	72.2	1998	42+	1950	25	65.6	1975	20	136	.0	.5	30.0	.0	.0	.0
Oct	64.5	52.5	58.5	89+	1954	4	63.7	1984	27	1974	21	54.1	1976	228	25	.0	.0	30.6	.0	1.0	.0
Nov	55.0	42.9	49.0	80	1950	1	55.2	1985	8	2000	22	42.6	1976	481	0	.0	.0	22.5	.1	4.4	.0
Dec	46.3	34.0	40.2	74+	1998	4	47.7	1984	4	1983	25	28.2	1989	772	0	.0	.0	11.8	2.5	14.4	.0
Ann	61.1	49.4	55.3	102	Aug 1983	20	78.6	Jul 1999	-3	Jan 1994	19	24.8	Jan 1977	4480	951	.1	5.0	272.4	12.5	68.0	.1

+ Also occurred on an earlier date(s)

@ Denotes mean number of days greater than 0 but less than .05

Complete documentation available from: [www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

002-A

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## No. 20 1971-2000

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**Station: ATLANTIC CITY MARINA, NJ**

**COOP ID: 280325**

**Climate Division: NJ 3**

**NWS Call Sign: 0325**

**Elevation: 10 Feet**

**Lat: 39°23N**

**Lon: 74°26W**

### Precipitation (inches)

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days <sup>(3)</sup>				Precipitation Probabilities <sup>(1)</sup> Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians <sup>(1)</sup>		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily <sup>(2)</sup>	Year	Day	Highest Monthly <sup>(1)</sup>	Year	Lowest Monthly <sup>(1)</sup>	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	3.44	2.88	2.98	1962	6	8.40	1987	.35	1981	10.5	6.8	2.4	.7	1.08	1.40	1.89	2.30	2.71	3.12	3.58	4.12	4.81	5.89	6.89
Feb	2.88	2.83	2.91	1998	23	6.29	1979	.79	1980	9.3	5.8	1.9	.6	1.12	1.39	1.77	2.08	2.38	2.69	3.02	3.40	3.88	4.62	5.30
Mar	3.79	3.61	3.30	1993	13	8.48	1994	.91	1976	10.7	6.7	2.8	.9	1.16	1.52	2.06	2.52	2.96	3.43	3.94	4.54	5.31	6.51	7.63
Apr	3.25	3.16	4.03	1952	27	6.68	1987	.82	1976	10.6	6.7	2.2	.7	1.08	1.39	1.84	2.23	2.60	2.98	3.39	3.88	4.51	5.48	6.37
May	3.16	3.02	3.13	1978	24	6.01	1984	.28	1986	11.0	6.5	2.2	.5	.69	.98	1.44	1.86	2.28	2.73	3.24	3.84	4.64	5.91	7.12
Jun	2.46	2.08	3.65	1968	12	7.28	1973	.61	1971	9.0	5.1	1.5	.6	.67	.90	1.26	1.57	1.87	2.19	2.54	2.96	3.50	4.36	5.15
Jul	3.36	3.16	6.62	1969	23	8.38	1997	.57	1981	8.6	5.6	2.3	.8	.96	1.28	1.76	2.18	2.59	3.01	3.49	4.04	4.76	5.90	6.95
Aug	4.16	3.88	7.33	1953	14	11.77	2000	1.03	1984	8.4	5.4	2.7	1.4	1.11	1.51	2.11	2.64	3.16	3.70	4.30	5.02	5.96	7.42	8.79
Sep	3.02	2.68	3.00	1954	11	6.87	1996	.87	1978	8.0	5.0	1.9	.9	.92	1.21	1.63	2.00	2.36	2.73	3.14	3.62	4.24	5.21	6.10
Oct	2.71	2.76	3.50	1958	25	5.09	1995	.01	2000	7.3	4.8	2.0	.8	.45	.69	1.08	1.46	1.84	2.25	2.73	3.30	4.07	5.32	6.51
Nov	2.96	2.46	3.66	1977	7	7.57	1972	.89	1998	9.4	5.7	2.1	.6	.70	.97	1.41	1.79	2.18	2.59	3.05	3.59	4.31	5.44	6.51
Dec	3.18	2.95	3.28	1993	5	6.87	1996	.62	1988	10.4	6.1	2.3	.7	.84	1.14	1.60	2.01	2.41	2.82	3.29	3.83	4.55	5.68	6.73
Ann	38.37	37.65	7.33	Aug 1953	14	11.77	Aug 2000	.01	Oct 2000	113.2	70.2	26.3	9.2	29.22	31.04	33.34	35.07	36.60	38.07	39.57	41.23	43.22	46.09	48.55

+ Also occurred on an earlier date(s)

# Denotes amounts of a trace

@ Denotes mean number of days greater than 0 but less than .05

\*\* Statistics not computed because less than six years out of thirty had measurable precipitation

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:

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Station: ATLANTIC CITY MARINA, NJ

COOP ID: 280325

Climate Division: NJ 3

NWS Call Sign: 0325

Elevation: 10 Feet

Lat: 39°23N

Lon: 74°26W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99+	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99+	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
May	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Jun	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Jul	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Aug	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Sep	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Oct	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9+	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Nov	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99+	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	N/A	N/A	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9

+ Also occurred on an earlier date(s) #Denotes trace amounts

@ Denotes mean number of days greater than 0 but less than .05

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

(1) Derived from Snow Climatology and 1971-2000 daily data

(2) Derived from 1971-2000 daily data

Complete documentation available from:

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# Climatography of the United States

## No. 20 1971-2000

**Station: ATLANTIC CITY MARINA, NJ**

**COOP ID: 280325**

**Climate Division: NJ 3**

**NWS Call Sign: 032**

**Elevation: 10 Feet**

**Lat: 39°23N**

**Lon: 74°26W**

Freeze Data									
Spring Freeze Dates (Month/Day)									
Temp (F)	Probability of later date in spring (thru Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	4/23	4/19	4/17	4/14	4/12	4/10	4/08	4/05	4/01
32	4/18	4/12	4/07	4/03	3/31	3/27	3/24	3/19	3/13
28	4/05	3/31	3/27	3/24	3/21	3/17	3/14	3/10	3/05
24	3/30	3/23	3/18	3/14	3/11	3/07	3/03	2/26	2/20
20	3/22	3/13	3/06	3/01	2/24	2/19	2/13	2/07	1/29
16	3/11	3/02	2/24	2/19	2/14	2/09	2/04	1/28	1/18
Fall Freeze Dates (Month/Day)									
Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	10/15	10/21	10/26	10/30	11/02	11/06	11/09	11/14	11/20
32	10/23	10/29	11/03	11/08	11/11	11/15	11/20	11/25	12/01
28	10/29	11/06	11/12	11/17	11/21	11/26	12/01	12/06	12/14
24	11/19	11/26	12/01	12/05	12/09	12/13	12/18	12/23	12/30
20	11/30	12/09	12/15	12/20	12/25	12/30	1/04	1/10	1/19
16	12/10	12/19	12/26	1/01	1/06	1/12	1/18	1/25	2/05
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	228	219	213	208	203	198	193	187	179
32	255	245	237	231	225	219	212	205	195
28	274	264	257	251	245	239	233	226	216
24	303	293	285	279	273	267	261	253	243
20	337	326	317	310	304	297	290	281	270
16	>365	355	341	331	323	316	308	299	287

\* Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

**0/00** Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

Derived from 1971-2000 serially complete daily data

Complete documentation available from:

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of the United States  
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**Station: ATLANTIC CITY MARINA, NJ**

**COOP ID: 280325**

**Climate Division: NJ 3      NWS Call Sign: 032      Elevation: 10 Feet      Lat: 39°23N      Lon: 74°26W**

Degree Days to Selected Base Temperatures (°F)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	924	787	674	409	167	18	0	0	20	228	481	772	4480
60	769	647	519	262	71	2	0	0	3	122	335	617	3347
57	676	563	426	182	35	0	0	0	1	76	254	531	2744
55	617	507	366	135	19	0	0	0	0	53	204	472	2373
50	473	375	226	49	3	0	0	0	0	16	103	335	1580
32	99	51	6	0	0	0	0	0	0	0	1	43	200

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	198	188	355	582	881	1119	1339	1325	1105	821	509	294	8716
55	2	0	2	27	187	429	626	612	416	161	22	11	2495
57	0	0	0	13	141	370	564	550	356	122	12	7	2135
60	0	0	0	4	83	281	471	457	269	75	4	0	1644
65	0	0	0	0	25	147	316	302	136	25	0	0	951
70	0	0	0	0	4	52	172	157	42	5	0	0	432

Growing Degree Units (2)																								
Base	Growing Degree Units (Monthly)												Growing Degree Units (Accumulated Monthly)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	50	62	150	343	629	875	1083	1065	854	549	269	105	50	112	262	605	1234	2109	3192	4257	5111	5660	5929	6034
45	16	22	62	205	474	725	928	910	704	398	161	45	16	38	100	305	779	1504	2432	3342	4046	4444	4605	4650
50	0	3	20	97	321	575	773	755	554	258	75	11	0	3	23	120	441	1016	1789	2544	3098	3356	3431	3442
55	0	0	5	34	177	425	618	600	405	139	27	1	0	0	5	39	216	641	1259	1859	2264	2403	2430	2431
60	0	0	1	10	81	278	463	445	263	58	6	0	0	0	1	11	92	370	833	1278	1541	1599	1605	1605
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	16	19	51	138	327	573	763	748	555	292	113	34	16	35	86	224	551	1124	1887	2635	3190	3482	3595	3629

(1) Derived from the 1971-2000 Monthly Normals

(2) Derived from 1971-2000 serially complete daily data

**Note:** For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Complete documentation available from:  
[www.ncdc.noaa.gov/oa/climate/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

## Notes

- a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.
- b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.
- c. Only observed validated values were used to select the extreme daily values.
- d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.  
Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.
- e. Degree Days were derived using the same techniques as the 1971-2000 normals.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)
- f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set.  
Documentation of the serially complete data set is available from the link below:
- g. Snowfall and snow depth statistics were derived from the Snow Climatology.  
Documentation for the Snow Climatology project is available from the link under references.

## Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

- a. Temperature/ Precipitation Tables
  - 1. 1971-2000 Monthly Normals
  - 2. Cooperative Summary of the Day
  - 3. National Weather Service station records
  - 4. 1971-2000 serially complete daily data
- b. Degree Day Table
  - 1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
  - 2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data
- c. Snow Tables
  - 1. Snow Climatology
  - 2. Cooperative Summary of the Day
- d. Freeze Data Table  
1971-2000 serially complete daily data

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html)  
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,  
[www1.ncdc.noaa.gov/pub/data/special/serialcomplete\\_jam\\_0900.pdf](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)