

Climatography of the United States

No. 20

1971-2000

Station: ATLANTIC CITY AP, NJ

COOP ID: 280311

Climate Division: NJ 2

NWS Call Sign: ACY

Elevation: 60 Feet

Lat: 39° 27N

Lon: 74° 34W

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	22.8	32.1	78	1967	24	40.6	1990	-10	1977	17	19.7	1977	1019	0	.0	.0	7.5	6.4	25.1	.6
Feb	43.9	24.5	34.2	75	1985	24	40.5	1990	-11	1979	12	21.7	1979	873	0	.0	.0	8.5	4.7	21.7	.4
Mar	51.9	31.7	41.8	87	1998	30	48.0	1973	5+	1980	1	36.6	1984	725	1	.0	.0	17.5	.6	16.6	.0
Apr	61.3	39.8	50.6	94	1969	27	55.1	1985	12	1969	1	45.9	1975	437	5	.0	.1	27.1	.0	6.3	.0
May	71.1	49.8	60.5	99	1969	29	66.0	1991	25	1966	11	57.0	1992	187	44	.0	1.0	30.8	.0	.4	.0
Jun	80.0	59.3	69.7	106	1969	28	73.6	1984	37+	1967	1	66.0	1980	32	168	@	3.3	30.0	.0	.0	.0
Jul	85.1	65.4	75.3	104	1966	3	78.7	1983	42	1988	1	71.7	2000	1	322	.2	7.8	31.0	.0	.0	.0
Aug	83.3	63.7	73.5	103	2001	9	77.1	1984	40+	1965	31	70.4+	1994	6	269	@	4.4	31.0	.0	.0	.0
Sep	76.6	56.0	66.3	99	1983	11	69.5	1977	32+	1967	24	62.8	1975	69	110	.0	1.1	30.0	.0	.0	.0
Oct	66.3	43.9	55.1	90	1959	5	62.3	1984	20	1988	31	49.7	1988	323	15	.0	.0	30.5	.0	3.2	.0
Nov	56.0	35.7	45.9	81	1974	1	53.4	1985	10	1989	23	39.6	1976	573	1	.0	.0	22.2	.1	12.5	.0
Dec	46.4	27.1	36.8	77	1998	7	44.0	1984	-2+	1980	25	24.7	1989	868	0	.0	.0	12.1	3.2	22.2	.2
Ann	63.6	43.3	53.5	106	Jun 1969	28	78.7	Jul 1983	-11	Feb 1979	12	19.7	Jan 1977	5113	935	.2	17.7	278.2	15.0	108.0	1.2

+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1958-2001

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

001-A

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of the United States
No. 20
1971-2000**

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

Station: ATLANTIC CITY AP, NJ

COOP ID: 280311

Climate Division: NJ 2

NWS Call Sign: ACY

Elevation: 60 Feet

Lat: 39°27N

Lon: 74°34W

Precipitation (inches)																									
	Precipitation Totals									Mean Number of Days ⁽³⁾				Precipitation Probabilities ⁽¹⁾ Probability that the monthly/annual precipitation will be equal to or less than the indicated amount											
	Means/ Medians ⁽¹⁾		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution											
Month	Mean	Med-ian	Highest Daily ⁽²⁾	Year	Day	Highest Monthly ⁽¹⁾	Year	Lowest Monthly ⁽¹⁾	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	
Jan	3.60	2.96	2.47	1962	6	7.19	1978	.56	1981	10.5	7.0	2.4	.8	1.20	1.54	2.04	2.46	2.87	3.29	3.75	4.29	4.98	6.05	7.04	
Feb	2.85	2.79	2.58	1966	13	5.76	1979	.82	1980	9.2	5.8	2.1	.6	1.08	1.34	1.72	2.04	2.34	2.65	2.98	3.37	3.86	4.62	5.31	
Mar	4.06	3.75	2.66	1979	6	9.25	1994	.93	1995	10.4	6.9	2.9	1.2	1.27	1.65	2.23	2.72	3.19	3.69	4.23	4.86	5.68	6.95	8.13	
Apr	3.45	3.25	2.94	1986	16	7.45	1983	.84	1976	10.7	6.8	2.1	.8	1.14	1.46	1.94	2.35	2.74	3.15	3.59	4.11	4.78	5.82	6.77	
May	3.38	3.13	4.15	1959	29	6.68	1998	.54	1986	10.8	6.5	2.3	.7	.98	1.30	1.79	2.20	2.61	3.04	3.50	4.06	4.77	5.89	6.93	
Jun	2.66	2.67	2.75	1992	5	4.91	1981	.69	1971	8.7	5.5	1.7	.7	.85	1.10	1.48	1.79	2.10	2.42	2.77	3.18	3.70	4.52	5.28	
Jul	3.86	3.65	6.46	1959	10	7.88	2000	.51	1983	8.8	6.0	2.7	1.0	1.10	1.46	2.02	2.50	2.97	3.46	4.00	4.64	5.47	6.76	7.97	
Aug	4.32	4.21	6.40	1966	23	10.40	1971	.44	1972	8.7	6.0	2.8	1.3	1.33	1.74	2.35	2.87	3.38	3.91	4.49	5.17	6.06	7.43	8.71	
Sep	3.14	3.01	3.86	1973	14	5.92	1989	.49	1998	8.2	5.6	2.1	.8	1.05	1.34	1.78	2.15	2.51	2.87	3.27	3.74	4.34	5.28	6.14	
Oct	2.86	2.75	2.49	1958	25	6.60	1976	.06	2000	7.6	4.9	2.1	.8	.55	.81	1.22	1.61	2.00	2.42	2.90	3.48	4.24	5.47	6.64	
Nov	3.26	3.10	2.85	1972	14	9.65	1972	.68	1976	9.4	5.7	2.4	.8	.73	1.04	1.51	1.94	2.37	2.83	3.34	3.95	4.76	6.04	7.24	
Dec	3.15	2.80	1.95	1993	5	7.10	1996	.64	1988	10.3	6.3	2.2	.8	.93	1.23	1.68	2.07	2.45	2.84	3.27	3.78	4.44	5.47	6.43	
Ann	40.59	40.45	6.46	Jul 1959	10	10.40	Aug 1971	.06	Oct 2000	113.3	73.0	27.8	10.3	31.28	33.13	35.48	37.24	38.79	40.27	41.80	43.47	45.48	48.38	50.85	

+ 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: 1958-2001

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

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Station: ATLANTIC CITY AP, NJ

COOP ID: 280311

Climate Division: NJ 2

NWS Call Sign: ACY

Elevation: 60 Feet

Lat: 39°27N

Lon: 74°34W

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	4.8	3.3	#	0	14.3	1987	26	20.3	1987	19	1987	27	1+	1988	2.9	1.6	.4	.1	@	3.8	1.2	.4	.2
Feb	5.5	1.9	1	0	16.6	1979	19	27.7	1979	23	1979	20	4	1979	2.6	1.3	.4	.3	.2	4.1	2.0	1.4	.4
Mar	1.3	#	#	0	4.0	1978	3	8.1	1978	3+	1980	2	#	1993	.9	.5	.1	.0	.0	1.1	.1	.0	.0
Apr	.3	#	#	0	3.9	1990	7	3.9	1990	3	1990	7	#	1990	.2	.1	@	.0	.0	.1	@	.0	.0
May	#	.0	#	0	#	1977	9	#	1977	0	0	0	#	1995	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	#	.0	0	0	#	1980	13	#+	1980	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.2	.0	#	0	4.5	1989	23	4.5	1989	6	1989	23	1	1989	.2	.0	@	.0	.0	.2	.1	.1	.0
Dec	1.6	.2	#	0	7.0	2000	30	9.3	1989	7	1982	13	1+	1989	1.2	.5	.2	@	.0	1.3	.6	.1	.0
Ann	13.7	5.4	N/A	N/A	16.6	Feb 1979	19	27.7	Feb 1979	23	Feb 1979	20	4	Feb 1979	8.0	4.0	1.1	.4	.2	10.6	4.0	2.0	.6

+ 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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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	5/18	5/14	5/11	5/08	5/06	5/03	5/01	4/28	4/24
32	5/10	5/04	5/01	4/27	4/24	4/21	4/18	4/14	4/09
28	5/01	4/24	4/19	4/16	4/12	4/08	4/04	3/30	3/24
24	4/13	4/08	4/04	4/01	3/29	3/26	3/23	3/19	3/14
20	4/01	3/27	3/23	3/20	3/17	3/14	3/11	3/07	3/02
16	3/22	3/15	3/10	3/06	3/02	2/26	2/22	2/17	2/11
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	9/24	9/29	10/02	10/05	10/07	10/10	10/13	10/16	10/20
32	10/04	10/09	10/13	10/16	10/19	10/22	10/25	10/29	11/03
28	10/17	10/21	10/25	10/28	10/30	11/02	11/05	11/08	11/13
24	11/02	11/07	11/10	11/13	11/15	11/18	11/21	11/24	11/29
20	11/11	11/17	11/21	11/24	11/28	12/01	12/05	12/09	12/14
16	11/25	12/01	12/06	12/09	12/13	12/16	12/20	12/24	12/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	171	165	161	157	154	150	147	142	137
32	202	194	187	182	177	172	166	160	151
28	227	218	212	206	201	196	190	184	175
24	249	243	238	234	231	227	224	219	213
20	276	269	264	259	255	251	246	241	233
16	313	304	297	291	285	279	273	266	257

* 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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Climate Division: NJ 2 NWS Call Sign: ACY Elevation: 60 Feet Lat: 39°27N Lon: 74°34W

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	1019	873	725	437	187	32	1	6	69	323	573	868	5113
60	865	723	564	286	79	3	0	0	10	196	426	721	3873
57	772	639	471	206	43	0	0	0	3	136	341	628	3239
55	710	583	412	158	26	0	0	0	1	104	287	573	2854
50	568	451	272	65	5	0	0	0	0	45	170	429	2005
32	163	96	16	0	0	0	0	0	0	0	4	82	361

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	131	148	322	558	881	1128	1340	1285	1030	715	421	209	8168
55	1	2	12	46	199	439	627	572	344	102	25	4	2373
57	0	1	9	32	156	380	565	510	289	75	17	2	2036
60	0	0	5	18	103	295	472	418	211	44	8	1	1575
65	0	0	1	5	44	168	322	269	110	15	1	0	935
70	0	0	0	1	15	77	178	140	45	3	0	0	459

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	42	57	144	333	640	898	1101	1045	796	476	222	82	42	99	243	576	1216	2114	3215	4260	5056	5532	5754	5836
45	16	25	75	203	486	748	946	890	646	330	127	40	16	41	116	319	805	1553	2499	3389	4035	4365	4492	4532
50	1	6	37	108	338	598	791	735	496	205	64	10	1	7	44	152	490	1088	1879	2614	3110	3315	3379	3389
55	0	0	12	52	207	449	636	580	351	109	28	2	0	0	12	64	271	720	1356	1936	2287	2396	2424	2426
60	0	0	4	17	105	305	481	426	219	50	7	0	0	0	4	21	126	431	912	1338	1557	1607	1614	1614
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	30	34	85	189	377	591	756	719	513	289	128	42	30	64	149	338	715	1306	2062	2781	3294	3583	3711	3753

(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

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
- 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html
Snow Climatology Project Description, 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