U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography 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: WOODSTOWN PITTSGROV 4E, NJ **COOP ID: 289910**

Climate Division: NJ 2 **NWS Call Sign:** **Elevation: 98 Feet** **Lat: 39˚33N** **Lon: 75˚10W**

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	41.5	24.3	32.9	74	1950	27	41.9	1998	-13	1984	22	22.5	1977	996	0	.0	.0	6.7	6.0	24.9	.6
Feb	44.8	25.7	35.3	76	1985	24	42.9	1990	-6+	1963	8	23.4	1979	833	0	.0	.0	9.0	3.9	21.4	.4
Mar	54.2	33.0	43.6	88	1998	30	48.5	1977	-3	1984	10	37.8	1984	663	0	.0	.0	20.2	.4	15.8	@
Apr	65.5	41.2	53.4	93+	1976	18	58.1	1994	18	1982	7	48.8	1975	350	1	.0	.3	28.6	.0	5.0	.0
May	75.5	51.2	63.4	96+	1962	18	69.1	1991	28	1966	11	59.7	1997	109	58	.0	1.7	31.0	.0	.2	.0
Jun	83.8	60.7	72.3	101	1988	22	76.0	1994	41	1966	2	68.8	1972	7	225	.1	5.6	30.0	.0	.0	.0
Jul	88.1	65.7	76.9	103	1966	3	79.5	1988	43	1988	1	73.2	2000	0	369	.6	12.4	31.0	.0	.0	.0
Aug	86.1	64.0	75.1	102	1988	15	78.6	1980	42+	1976	31	71.8	1992	0	312	.1	8.1	31.0	.0	.0	.0
Sep	79.2	57.2	68.2	101	1953	1	71.5	1980	32	1963	24	65.8	1984	26	120	.0	2.1	30.0	.0	.0	.0
Oct	67.8	45.5	56.7	90+	1959	5	63.6	1971	20	1976	29	51.1	1988	279	21	.0	@	30.7	.0	2.6	.0
Nov	56.6	36.9	46.8	84	1950	2	51.3	1999	8	1989	24	40.6	1976	548	0	.0	.0	22.2	.1	10.9	.0
Dec	46.1	28.7	37.4	75	1998	7	43.2	1982	-2	1983	25	25.4	1989	855	0	.0	.0	11.0	2.8	21.2	.1
Ann	65.8	44.5	55.2	103	Jul 1966	3	79.5	Jul 1988	-13	Jan 1984	22	22.5	Jan 1977	4666	1106	.8	30.2	281.4	13.2	102.0	1.1

\+ 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/normals/usnormals.html

(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

Issue Date: February 2004

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography 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: WOODSTOWN PITTSGROV 4E, NJ **COOP ID: 289910**

Climate Division: NJ 2 **NWS Call Sign:** **Elevation: 98 Feet** **Lat: 39˚33N** **Lon: 75˚10W**

Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	3.80	3.32	2.43	1973	29	8.41	1979	.52	1981
Feb	2.89	2.81	2.45	1973	2	6.11	1971	.72	1980
Mar	4.21	4.14	4.08	2000	22	8.00	2000	1.49	1986
Apr	3.75	3.59	2.61	1983	16	8.19	1983	.92	1985
May	3.97	3.69	2.50	1992	8	7.20	1983	.62	1986
Jun	3.89	4.25	4.55	1972	22	8.48	1972	.54	1988
Jul	4.41	4.03	5.30+	1969	28	8.95	1989	1.26	1983
Aug	4.27	4.21	4.93	1971	27	10.99	1971	1.22	1984
Sep	4.01	3.36	7.24	1999	16	12.53	1999	1.65	1977
Oct	3.40	3.32	3.70	1980	25	6.50	1995	.59	1994
Nov	3.46	2.94	2.75	1971	25	8.43	1972	.56	1976
Dec	3.70	3.06	3.02	1996	14	10.16	1996	.78	1989
Ann	45.76	44.06	7.24	Sep 1999	16	12.53	Sep 1999	.52	Jan 1981

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.9	6.9	2.6	.9
Feb	9.9	5.4	2.0	.6
Mar	11.4	6.8	3.3	1.1
Apr	12.3	7.3	2.8	.9
May	12.0	7.4	2.6	1.0
Jun	10.4	6.4	2.6	1.1
Jul	10.6	6.5	2.8	1.3
Aug	9.2	6.0	2.8	1.3
Sep	9.4	6.1	2.5	1.0
Oct	9.0	5.3	2.1	1.1
Nov	10.8	5.9	2.5	1.0
Dec	11.5	6.5	2.6	1.0
Ann	128.4	76.5	31.2	12.3

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.15	1.51	2.05	2.52	2.97	3.44	3.95	4.56	5.34	6.56	7.69
Feb	.93	1.20	1.61	1.95	2.29	2.63	3.01	3.46	4.03	4.92	5.74
Mar	1.53	1.92	2.49	2.97	3.43	3.90	4.40	4.99	5.75	6.91	7.98
Apr	1.55	1.89	2.37	2.77	3.14	3.52	3.93	4.40	4.99	5.90	6.72
May	1.19	1.57	2.13	2.62	3.09	3.58	4.12	4.76	5.58	6.87	8.06
Jun	.96	1.33	1.90	2.40	2.90	3.42	4.01	4.71	5.62	7.06	8.41
Jul	1.44	1.86	2.48	3.00	3.51	4.03	4.60	5.27	6.13	7.46	8.70
Aug	1.31	1.72	2.32	2.84	3.34	3.87	4.44	5.11	5.99	7.34	8.60
Sep	1.20	1.58	2.15	2.64	3.12	3.62	4.16	4.81	5.64	6.93	8.14
Oct	1.17	1.49	1.96	2.36	2.73	3.13	3.55	4.05	4.69	5.68	6.59
Nov	.76	1.08	1.58	2.04	2.50	2.99	3.54	4.20	5.07	6.46	7.76
Dec	.78	1.12	1.66	2.16	2.65	3.18	3.78	4.50	5.44	6.95	8.38
Ann	33.82	36.17	39.15	41.41	43.40	45.32	47.30	49.47	52.10	55.90	59.17

\+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

Climatography 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: WOODSTOWN PITTSGROV 4E, NJ **COOP ID: 289910**

Climate Division: NJ 2 **NWS Call Sign:** **Elevation: 98 Feet** **Lat: 39°33N** **Lon: 75°10W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	5.9	4.2	1	#
Feb	4.8	2.0	1	#
Mar	1.6	.3	#	#
Apr	.5	.0	#	0
May	#	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	.3	.0	#	0
Dec	2.1	.9	#	#
Ann	15.3	7.4	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	14.0	1996	7	22.3	1996	19	1996	11	6	1996
Feb	17.0	1979	19	25.2	1979	24	1979	20	7	1979
Mar	12.0	1993	13	12.0	1993	8	1993	13	2	1978
Apr	4.0	1990	7	4.0	1990	#+	1997	18	#+	1997
May	#	1977	9	#	1977	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	2.0	1972	19	2.0	1972	#	1979	10	#	1979
Nov	4.3	1989	23	4.3	1989	3	1989	24	#+	1996
Dec	6.8	1990	28	9.6	1989	6	1990	28	2	1989
Ann	17.0	Feb 1979	19	25.2	Feb 1979	24	Feb 1979	20	7	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.6	2.0	.8	.3	.1
Feb	2.5	1.4	.6	.2	.1
Mar	1.4	.6	.3	.1	@
Apr	.4	.2	@	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.1	.1	.0	.0	.0
Nov	.3	.1	.1	.0	.0
Dec	1.5	.8	.3	.1	.0
Ann	9.8	5.2	2.1	.7	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	7.1	3.4	1.7	.8
Feb	5.9	3.4	2.4	.2
Mar	1.3	.6	.2	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.1	.1	.0	.0
Dec	2.3	1.1	.2	.0
Ann	16.7	8.6	4.5	1.0

+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography 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: WOODSTOWN PITTSGROV 4E, NJ **COOP ID: 289910**

Climate Division: NJ 2 **NWS Call Sign:** **Elevation: 98 Feet** **Lat: 39˚33N** **Lon: 75˚10W**

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	5/17	5/12	5/10	5/07	5/05	5/02	4/30	4/27	4/23
32	5/04	4/30	4/27	4/24	4/22	4/19	4/16	4/13	4/09
28	4/17	4/13	4/10	4/07	4/05	4/03	3/31	3/28	3/24
24	4/05	3/31	3/28	3/26	3/24	3/21	3/19	3/16	3/11
20	3/27	3/22	3/18	3/15	3/12	3/09	3/06	3/02	2/25
16	3/16	3/08	3/03	2/27	2/23	2/19	2/14	2/09	2/02

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	9/27	10/02	10/06	10/09	10/12	10/14	10/17	10/21	10/26
32	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/01	11/06
28	10/18	10/24	10/29	11/01	11/05	11/09	11/12	11/17	11/23
24	10/31	11/05	11/09	11/13	11/16	11/19	11/23	11/27	12/03
20	11/11	11/19	11/24	11/28	12/02	12/06	12/11	12/16	12/23
16	12/04	12/10	12/13	12/17	12/20	12/23	12/26	12/30	1/05

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	177	171	167	163	159	156	152	147	141
32	205	197	192	187	183	178	173	168	160
28	239	230	224	218	213	208	203	197	188
24	257	250	245	241	237	233	229	224	217
20	291	282	275	270	264	259	254	247	238
16	325	316	310	304	299	294	289	282	274

***** 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography 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: WOODSTOWN PITTSGROV 4E, NJ **COOP ID: 289910**

Climate Division: NJ 2 **NWS Call Sign:** **Elevation: 98 Feet** **Lat: 39˚33N** **Lon: 75˚10W**

Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	996	833	663	350	109	7	0	0	26	279	548	855	4666
60	841	693	508	211	39	1	0	0	5	165	401	700	3564
57	748	609	416	141	16	0	0	0	1	113	316	607	2967
55	686	556	359	101	8	0	0	0	1	84	263	550	2608
50	544	426	224	34	1	0	0	0	0	34	149	407	1819
32	145	91	10	0	0	0	0	0	0	0	2	68	316

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	172	181	370	641	972	1208	1392	1335	1085	765	444	236	8801
55	0	3	6	52	267	518	679	622	395	136	15	6	2699
57	0	0	1	32	213	458	617	560	336	102	8	0	2327
60	0	0	0	12	143	368	524	467	249	62	2	0	1827
65	0	0	0	1	58	225	369	312	120	21	0	0	1106
70	0	0	0	0	15	106	216	167	33	4	0	0	541

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	48	66	174	410	725	968	1144	1084	843	517	235	79	48	114	288	698	1423	2391	3535	4619	5462	5979	6214	6293
45	21	30	91	270	570	818	989	929	693	366	141	39	21	51	142	412	982	1800	2789	3718	4411	4777	4918	4957
50	3	10	44	155	415	668	834	774	543	231	69	13	3	13	57	212	627	1295	2129	2903	3446	3677	3746	3759
55	0	0	20	78	270	518	679	619	396	128	30	3	0	0	20	98	368	886	1565	2184	2580	2708	2738	2741
60	0	0	4	33	149	370	524	464	257	59	7	0	0	0	4	37	186	556	1080	1544	1801	1860	1867	1867
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	29	40	111	252	453	651	780	741	552	317	133	42	29	69	180	432	885	1536	2316	3057	3609	3926	4059	4101

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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