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: PONCE 4 E, PR **COOP ID: 667292**

Climate Division: PR 2 **NWS Call Sign:** **Elevation: 70 Feet** **Lat: 18˚02N** **Lon: 66˚32W**

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 >= 90	Max >= 70	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	87.7	66.2	77.0	92+	1999	24	79.8	1998	55+	1988	25	75.0	1985	0	370	1.2	31.0	31.0	.0	.0	.0
Feb	87.5	66.2	76.9	93	1964	3	78.7	1997	54	1989	12	75.1	1976	0	332	.9	28.3	28.3	.0	.0	.0
Mar	87.4	66.5	77.0	93+	1998	14	79.3	1981	55+	1993	3	74.9	2000	0	370	1.6	31.0	31.0	.0	.0	.0
Apr	88.1	68.7	78.4	96	1996	13	80.4	1987	53	1995	2	76.4	1989	0	402	4.0	30.0	30.0	.0	.0	.0
May	88.6	71.7	80.2	96	1998	26	82.0	1998	62+	1974	2	78.8	1974	0	469	8.7	31.0	31.0	.0	.0	.0
Jun	89.9	73.3	81.6	99	1993	14	84.0	1997	64+	1988	29	80.3	1973	0	499	17.2	30.0	30.0	.0	.0	.0
Jul	90.9	73.3	82.1	98	1972	27	83.9	1995	64+	1994	16	80.6	1984	0	531	24.1	31.0	31.0	.0	.0	.0
Aug	91.2	73.2	82.2	99	1966	25	83.7	1999	66+	1994	13	79.6	1971	0	532	23.5	31.0	31.0	.0	.0	.0
Sep	90.9	72.6	81.8	97	1967	5	83.5	1997	64	1964	10	79.5	1979	0	502	18.4	30.0	30.0	.0	.0	.0
Oct	90.3	71.8	81.1	95+	2001	22	83.1	1980	61	1990	9	79.7	1984	0	498	13.6	31.0	31.0	.0	.0	.0
Nov	89.8	69.9	79.9	97	1994	6	81.6	1980	59	2001	30	77.9	1971	0	445	7.6	30.0	30.0	.0	.0	.0
Dec	88.5	67.1	77.8	94	1966	4	80.5	1998	58+	1982	31	75.6	1973	0	396	2.3	31.0	31.0	.0	.0	.0
Ann	89.2	70.0	79.7	99+	Jun 1993	14	84.0	Jun 1997	53	Apr 1995	2	74.9	Mar 2000	0	5346	123.1	365.3	365.3	.0	.0	.0

\+ 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

Issue Date: May 2005

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1954-2001

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

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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	.99	.58	8.30	1992	6	9.09	1992	.09	1975
Feb	1.07	.73	2.72	1995	26	5.34	1995	.11	1972
Mar	1.51	1.10	1.97	1989	13	7.36	1989	.20	1986
Apr	1.95	1.67	3.76	1983	21	7.90	1983	.26	1979
May	4.02	2.38	6.75	1992	26	18.58	1992	.10+	1997
Jun	1.98	1.23	4.71	1956	17	7.98	1987	.03	1975
Jul	2.48	2.19	6.50	1979	19	9.69	1979	.08	1976
Aug	3.91	3.42	8.99	2001	23	12.46	1988	.77	1987
Sep	5.92	4.87	12.87	2000	18	17.20	2000	.91+	1986
Oct	6.40	4.06	18.20	1985	7	28.31	1985	.76	1982
Nov	4.12	3.02	4.70	1987	28	13.74	1987	.04	1973
Dec	1.13	.85	4.79	1960	3	6.10	1981	.02	1989
Ann	35.48	34.68	18.20	Oct 1985	7	28.31	Oct 1985	.02	Dec 1989

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.7	2.3	.2	.1
Feb	6.6	2.3	.5	.2
Mar	7.0	3.3	.8	.3
Apr	6.8	3.7	1.2	.4
May	10.1	5.2	1.9	1.1
Jun	6.9	3.7	1.4	.4
Jul	7.8	4.6	1.3	.6
Aug	10.2	5.5	2.3	1.0
Sep	11.4	7.0	3.1	1.3
Oct	12.9	7.9	3.5	1.8
Nov	10.5	6.4	2.5	1.0
Dec	6.9	2.6	.6	.2
Ann	103.8	54.5	19.3	8.4

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	.06	.12	.24	.38	.53	.71	.92	1.20	1.58	2.24	2.89
Feb	.09	.16	.31	.46	.62	.81	1.03	1.31	1.69	2.34	2.97
Mar	.19	.31	.52	.73	.95	1.20	1.48	1.84	2.32	3.11	3.87
Apr	.36	.53	.82	1.09	1.36	1.65	1.98	2.38	2.92	3.77	4.59
May	.09	.23	.60	1.07	1.68	2.43	3.40	4.69	6.58	9.92	13.33
Jun	.08	.17	.39	.64	.95	1.31	1.77	2.36	3.21	4.67	6.15
Jul	.31	.50	.85	1.20	1.57	1.97	2.45	3.04	3.83	5.14	6.41
Aug	.87	1.24	1.81	2.32	2.84	3.39	4.01	4.74	5.71	7.26	8.71
Sep	.80	1.28	2.13	2.95	3.81	4.77	5.87	7.23	9.06	12.06	14.96
Oct	.82	1.34	2.25	3.14	4.08	5.12	6.33	7.82	9.84	13.14	16.35
Nov	.22	.44	.93	1.49	2.12	2.87	3.79	4.96	6.62	9.45	12.28
Dec	.07	.14	.29	.44	.61	.81	1.05	1.36	1.79	2.52	3.24
Ann	20.96	23.57	27.02	29.72	32.16	34.56	37.08	39.90	43.39	48.54	53.08

\+ 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: 1954-2001
(3) Derived from 1971-2000 daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.0	.0	0	0
Feb	.0	.0	0	0
Mar	.0	.0	0	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	.0	.0	0	0
Dec	.0	.0	0	0
Ann	.0	.0	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	.0	0	0	.0	0	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	.0	0	0	.0	0	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.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	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.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	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.0	.0	.0	.0

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

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

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

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
32	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
28	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00

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	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
32	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
28	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	>365	>365	>365	>365	>365	>365	>365	>365	>365
32	>365	>365	>365	>365	>365	>365	>365	>365	>365
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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

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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	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1393	1256	1393	1392	1492	1489	1554	1555	1492	1521	1435	1419	17391
55	680	612	680	702	779	799	841	842	802	808	745	706	8996
57	618	556	618	642	717	739	779	780	742	746	685	644	8266
60	525	472	525	552	624	649	686	687	652	653	595	551	7171
65	370	332	370	402	469	499	531	532	502	498	445	396	5346
70	215	192	215	252	314	349	376	377	352	343	295	241	3521

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	1130	1057	1143	1151	1245	1250	1311	1310	1248	1258	1182	1155	1130	2187	3330	4481	5726	6976	8287	9597	10845	12103	13285	14440
45	975	912	988	1001	1090	1100	1156	1155	1098	1103	1032	1000	975	1887	2875	3876	4966	6066	7222	8377	9475	10578	11610	12610
50	820	767	833	851	935	950	1001	1000	948	948	882	845	820	1587	2420	3271	4206	5156	6157	7157	8105	9053	9935	10780
55	665	622	678	701	780	800	846	845	798	793	732	690	665	1287	1965	2666	3446	4246	5092	5937	6735	7528	8260	8950
60	510	477	523	551	625	650	691	690	648	638	582	535	510	987	1510	2061	2686	3336	4027	4717	5365	6003	6585	7120
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	806	755	813	826	900	899	930	928	884	902	845	821	806	1561	2374	3200	4100	4999	5929	6857	7741	8643	9488	10309

(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 were calculated from a serially complete daily data set. A serial dataset was not available for precipitation,
To ensure that a station's data was adequate to estimate these statistics, the following criteria were used:
1. A station must have 80% of its data for the 1971-2000 time period.
2. Only months with at least 21 days are used.
3. There must be a least 21 months (meeting criteria 2.) in the sample.

g. Snowfall and snow depth statistics were derived daily values quality controlled to be consistent with 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 differences 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. Other inconsistencies may appear from comparing statistically modeled values such as degree days to observed temperatures.

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. 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