

# Climatology of the United States No. 20

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

Station: SAN SEBASTIAN 2 WNW, PR

1971-2000

COOP ID: 668881

Climate Division: PR 6

NWS Call Sign:

Elevation: 170 Feet

Lat: 18°21N

Lon: 67°01W

## 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	88.0	61.1	74.6	95+	1973	26	76.6	1998	48	1976	31	71.8	1985	0	296	9.1	31.0	31.0	.0	.0	.0
Feb	88.2	61.0	74.6	95	1973	5	76.6	1998	51+	1985	7	72.5	1976	0	269	9.8	28.3	28.3	.0	.0	.0
Mar	89.2	62.2	75.7	95+	1980	28	77.8	1998	50+	1970	7	73.1	1976	0	332	16.2	31.0	31.0	.0	.0	.0
Apr	90.2	64.0	77.1	96+	1973	30	78.6	1992	54+	1968	23	74.9	1976	0	363	21.9	30.0	30.0	.0	.0	.0
May	91.1	66.5	78.8	98	1973	28	80.6+	1998	58+	1976	15	76.5	1971	0	428	26.8	31.0	31.0	.0	.0	.0
Jun	92.3	67.8	80.1	97+	1997	25	82.0	1997	60+	1985	23	78.2	1974	0	451	28.3	30.0	30.0	.0	.0	.0
Jul	93.0	67.4	80.2	98+	1990	31	82.1	1980	60	1973	22	77.5	1974	0	471	29.0	31.0	31.0	.0	.0	.0
Aug	92.9	68.0	80.5	98+	1993	20	82.2	1998	60+	1971	28	78.4	1971	0	479	30.5	31.0	31.0	.0	.0	.0
Sep	92.5	67.6	80.1	97	1971	13	81.9	1980	58	1965	30	78.5	1975	0	451	28.6	30.0	30.0	.0	.0	.0
Oct	91.9	67.1	79.5	97	1972	9	81.0	1980	60+	1980	25	78.1	1971	0	449	29.3	31.0	31.0	.0	.0	.0
Nov	90.3	65.5	77.9	95+	1976	21	79.9+	1997	55	1969	20	75.8	1973	0	387	21.6	30.0	30.0	.0	.0	.0
Dec	88.4	63.0	75.7	93+	1981	10	78.1	1995	51	1977	31	73.1	1973	0	332	11.8	31.0	31.0	.0	.0	.0
Ann	90.7	65.1	77.9	98+	Aug 1993	20	82.2	Aug 1998	48	Jan 1976	31	71.8	Jan 1985	0	4708	262.9	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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: May 2005

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1955-1997

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

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**Climate Division: PR 6**

**NWS Call Sign:**

**Elevation: 170 Feet Lat: 18°21N**

**Lon: 67°01W**

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	2.12	1.76	4.04	1997	22	8.81	1997	.21	1973	5.4	3.6	1.3	.5	.28	.45	.76	1.05	1.36	1.71	2.10	2.59	3.25	4.33	5.38
Feb	3.07	2.81	3.66	1981	16	11.26	1996	.07	1977	7.1	5.1	2.1	1.1	.31	.54	.96	1.39	1.85	2.37	2.98	3.74	4.78	6.51	8.20
Mar	3.83	3.04	4.38	1985	21	9.07	1981	.52	1983	8.9	6.5	2.3	1.0	.63	.96	1.52	2.05	2.59	3.18	3.86	4.68	5.78	7.57	9.27
Apr	6.81	6.37	4.31	1987	8	15.68	1993	.13	1997	11.0	8.5	4.5	2.3	1.39	2.01	3.01	3.92	4.84	5.83	6.94	8.28	10.05	12.88	15.57
May	12.99	12.38	5.70	1980	28	26.33	1986	5.39	1990	18.2	15.7	8.8	4.7	6.30	7.41	8.93	10.16	11.29	12.42	13.62	14.99	16.71	19.30	21.62
Jun	11.25	10.97	4.00+	1966	6	20.20	1999	2.53	1997	16.1	13.8	8.1	3.8	5.16	6.15	7.52	8.63	9.66	10.70	11.80	13.07	14.66	17.07	19.24
Jul	7.89	7.86	4.40	1968	19	14.04	1991	.87	1983	13.0	10.5	5.7	2.9	2.74	3.48	4.57	5.48	6.36	7.26	8.24	9.38	10.85	13.11	15.20
Aug	10.35	9.87	6.87	1956	12	16.45	1979	5.34	1990	17.0	13.6	6.8	3.6	5.70	6.51	7.60	8.46	9.25	10.02	10.84	11.76	12.91	14.61	16.12
Sep	10.89	10.69	5.40	1975	16	19.30	1998	3.48	1986	17.3	14.4	7.3	3.3	5.23	6.17	7.45	8.49	9.44	10.40	11.42	12.59	14.05	16.25	18.22
Oct	12.29	13.54	4.02	1985	7	17.87	1999	5.90	1975	17.3	14.3	8.0	4.5	7.08	8.01	9.24	10.21	11.09	11.95	12.86	13.89	15.15	17.02	18.68
Nov	6.00	5.71	4.80	1965	4	12.60	1975	.98	1995	11.2	8.1	3.4	1.7	1.39	1.94	2.82	3.61	4.40	5.23	6.17	7.28	8.75	11.07	13.26
Dec	2.96	2.74	3.80	1965	11	6.28	1987	.05	1985	7.4	5.0	1.6	.9	.38	.62	1.04	1.45	1.88	2.36	2.93	3.62	4.55	6.08	7.57
Ann	90.45	90.47	6.87	Aug 1956	12	26.33	May 1986	.05	Dec 1985	149.9	119.1	59.9	30.3	70.96	74.88	79.82	83.52	86.76	89.88	93.06	96.55	100.74	106.76	111.90

+ 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: 1955-1997

(3) Derived from 1971-2000 daily data

Complete documentation available from:  
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**NWS Call Sign:**

**Elevation: 170 Feet**

**Lat: 18°21N**

**Lon: 67°01W**

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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.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

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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

Complete documentation available from:  
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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	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

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1319	1193	1355	1353	1451	1441	1494	1502	1441	1472	1377	1355	16753
55	606	549	642	663	738	751	781	789	751	759	687	642	8358
57	544	493	580	603	676	691	719	727	691	697	627	580	7628
60	451	409	487	513	583	601	626	634	601	604	537	487	6533
65	296	269	332	363	428	451	471	479	451	449	387	332	4708
70	144	129	178	213	273	301	316	324	301	294	237	179	2889

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	1081	1011	1117	1122	1212	1204	1245	1266	1206	1234	1143	1113	1081	2092	3209	4331	5543	6747	7992	9258	10464	11698	12841	13954
45	926	866	962	972	1057	1054	1090	1111	1056	1079	993	958	926	1792	2754	3726	4783	5837	6927	8038	9094	10173	11166	12124
50	771	721	807	822	902	904	935	956	906	924	843	803	771	1492	2299	3121	4023	4927	5862	6818	7724	8648	9491	10294
55	616	576	652	672	747	754	780	801	756	769	693	648	616	1192	1844	2516	3263	4017	4797	5598	6354	7123	7816	8464
60	461	431	497	522	592	604	625	646	606	614	543	493	461	892	1389	1911	2503	3107	3732	4378	4984	5598	6141	6634
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	730	688	757	760	822	812	837	840	811	836	781	761	730	1418	2175	2935	3757	4569	5406	6246	7057	7893	8674	9435

(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/normals/usnormals.html](http://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 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

c. Snow Tables

1. Cooperative Summary of the Day

d. Freeze Data Table

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

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normals.html](http://www.ncdc.noaa.gov/normals.html)

U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normals/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)