

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: COROZAL SUBSTATION, PR

1971-2000

COOP ID: 662934

Climate Division: PR 6

NWS Call Sign:

Elevation: 650 Feet

Lat: 18° 20N

Lon: 66° 22W

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	83.1	63.7	73.4	90+	1999	28	75.6	1973	50	1934	30	71.5	1989	0	260	.1	31.0	31.0	.0	.0	.0
Feb	83.4	63.3	73.4	94	1964	22	75.3	1983	54+	1989	2	70.4	1990	0	234	.2	28.3	28.3	.0	.0	.0
Mar	84.7	63.5	74.1	95	1983	22	78.0	1983	51	1993	3	70.3	1990	0	281	1.4	31.0	31.0	.0	.0	.0
Apr	86.2	65.3	75.8	95+	1995	9	78.3	1984	56+	1990	28	74.2+	1991	0	323	4.4	30.0	30.0	.0	.0	.0
May	87.9	67.4	77.7	95+	1999	26	79.6	1973	59+	1992	5	74.7	1992	0	392	8.1	31.0	31.0	.0	.0	.0
Jun	89.7	69.3	79.5	97	1952	30	81.4	1983	61	1952	26	76.2	1989	0	435	14.3	30.0	30.0	.0	.0	.0
Jul	89.3	69.7	79.5	98	1997	19	81.0	1980	60	1988	24	76.9	1992	0	450	12.0	31.0	31.0	.0	.0	.0
Aug	89.4	69.9	79.7	95+	1994	3	80.8	2000	60	1935	4	77.9	1989	0	454	12.5	31.0	31.0	.0	.0	.0
Sep	89.1	69.3	79.2	96+	1991	4	80.4	1980	60	1936	2	76.6	1992	0	425	10.4	30.0	30.0	.0	.0	.0
Oct	88.5	68.6	78.6	96	1989	15	80.3	1980	59	1966	15	75.8	1989	0	419	6.6	31.0	31.0	.0	.0	.0
Nov	85.8	67.4	76.6	97	1999	27	78.4	1976	57	1932	14	74.5	1991	0	348	1.1	30.0	30.0	.0	.0	.0
Dec	83.7	65.2	74.5	93	1997	3	77.5	1997	54	1991	24	70.9	1991	0	293	.7	31.0	31.0	.0	.0	.0
Ann	86.7	66.9	76.8	98	Jul 1997	19	81.4	Jun 1983	50	Jan 1934	30	70.3	Mar 1990	0	4314	71.8	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

Issue Date: May 2005

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1931-2001

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

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NWS Call Sign:

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Lon: 66°22W

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	4.28	3.69	6.10	1992	6	9.72	1979	.90	1983	16.0	9.0	2.2	.8	1.08	1.48	2.10	2.65	3.20	3.77	4.41	5.18	6.17	7.74	9.22
Feb	4.21	3.91	5.47	1998	5	7.73	1973	.63	1983	13.4	6.9	2.3	1.1	.80	1.18	1.80	2.37	2.95	3.57	4.28	5.13	6.26	8.08	9.81
Mar	4.25	3.78	8.63	1958	30	14.01	1981	.44	1982	13.0	6.9	2.5	1.1	.69	1.06	1.68	2.26	2.87	3.52	4.27	5.18	6.40	8.38	10.28
Apr	6.57	5.22	9.09	1987	12	20.22	1987	.48	1984	12.2	7.9	3.6	1.6	.94	1.49	2.43	3.35	4.30	5.34	6.55	8.03	10.02	13.26	16.39
May	7.68	6.37	7.68	1985	18	18.56	1986	1.17	1973	14.8	9.9	4.7	2.3	1.71	2.43	3.55	4.57	5.58	6.66	7.87	9.32	11.23	14.27	17.14
Jun	2.98	2.48	4.80	1938	14	9.90	1999	.34	1974	10.3	5.7	1.7	.9	.43	.68	1.11	1.52	1.96	2.43	2.97	3.64	4.54	6.01	7.42
Jul	4.56	4.47	5.32	1991	16	11.40	1999	.58	2000	15.3	9.4	2.7	.9	1.36	1.79	2.44	3.00	3.54	4.11	4.73	5.47	6.42	7.90	9.28
Aug	6.68	6.50	9.29	1979	31	15.31	1979	2.28	1991	16.5	11.2	4.4	1.6	2.68	3.30	4.17	4.89	5.57	6.26	7.00	7.86	8.95	10.62	12.14
Sep	8.36	8.07	7.68	1996	10	17.11	1996	3.18	1991	17.3	11.5	4.6	2.5	3.79	4.52	5.55	6.38	7.15	7.93	8.76	9.72	10.92	12.73	14.37
Oct	8.91	7.71	7.58	1985	7	19.23	1974	1.38	1993	17.5	12.0	5.3	2.6	1.99	2.81	4.12	5.30	6.47	7.73	9.13	10.82	13.03	16.55	19.88
Nov	7.58	7.10	7.96	1970	10	14.37	1979	1.89	1980	18.2	12.5	4.8	2.0	2.35	3.07	4.14	5.06	5.95	6.87	7.88	9.07	10.61	13.00	15.21
Dec	6.01	5.85	5.95	1981	13	17.20	1998	.00	1997	18.2	10.5	3.4	1.4	.61	1.32	2.32	3.19	4.08	5.03	6.11	7.42	9.16	11.96	14.63
Ann	72.07	69.55	9.29	Aug 1979	31	20.22	Apr 1987	.00	Dec 1997	182.7	113.4	42.2	18.8	45.67	50.56	56.94	61.86	66.29	70.62	75.14	80.18	86.35	95.42	103.35

+ 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: 1931-2001

(3) Derived from 1971-2000 daily data

Complete documentation available from:
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Climate Division: PR 6

NWS Call Sign:

Elevation: 650 Feet

Lat: 18°20N

Lon: 66°22W

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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Climate Division: PR 6 NWS Call Sign: Elevation: 650 Feet Lat: 18° 20N Lon: 66° 22W

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	1283	1158	1304	1313	1415	1425	1473	1477	1415	1442	1338	1316	16359
55	570	514	591	623	702	735	760	764	725	729	648	603	7964
57	508	458	529	563	640	675	698	702	665	667	588	541	7234
60	415	374	436	473	547	585	605	609	575	574	498	448	6139
65	260	234	281	323	392	435	450	454	425	419	348	293	4314
70	111	100	138	173	237	285	295	299	275	264	198	144	2519

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	1026	959	1052	1069	1170	1182	1225	1230	1173	1190	1088	1058	1026	1985	3037	4106	5276	6458	7683	8913	10086	11276	12364	13422
45	871	814	897	919	1015	1032	1070	1075	1023	1035	938	903	871	1685	2582	3501	4516	5548	6618	7693	8716	9751	10689	11592
50	716	669	742	769	860	882	915	920	873	880	788	748	716	1385	2127	2896	3756	4638	5553	6473	7346	8226	9014	9762
55	561	524	587	619	705	732	760	765	723	725	638	593	561	1085	1672	2291	2996	3728	4488	5253	5976	6701	7339	7932
60	406	379	432	469	550	582	605	610	573	570	488	438	406	785	1217	1686	2236	2818	3423	4033	4606	5176	5664	6102
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	715	667	732	747	823	836	868	868	838	842	782	746	715	1382	2114	2861	3684	4520	5388	6256	7094	7936	8718	9464

(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/normal/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

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

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