

# Climatology of the United States

No. 20

1971-2000

Station: COLOSO, PR

COOP ID: 662801

Climate Division: PR 6

NWS Call Sign:

Elevation: 40 Feet

Lat: 18° 23N

Lon: 67° 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 >= 90	Max >= 70	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	86.2	63.0	74.6	94+	1988	11	77.8	1989	52+	1988	22	72.2	2000	0	297	2.0	31.0	31.0	.0	.0	.0
Feb	86.2	62.5	74.4	96	1919	9	76.7	1979	52	1925	3	72.3	1972	0	262	1.7	28.3	28.3	.0	.0	.0
Mar	86.9	63.3	75.1	97	1941	12	79.0	1983	50	1972	24	72.6	2000	0	313	3.5	31.0	31.0	.0	.0	.0
Apr	87.5	65.1	76.3	98	1932	26	78.8	1999	56+	1955	23	73.8	1997	0	339	6.4	30.0	30.0	.0	.0	.0
May	88.8	67.5	78.2	97+	1950	1	80.8	1980	56	1910	3	75.4	1978	0	407	12.4	31.0	31.0	.0	.0	.0
Jun	90.1	68.0	79.1	98	1993	16	81.0	1993	60+	1996	30	76.9	1976	0	421	18.5	30.0	30.0	.0	.0	.0
Jul	90.4	68.5	79.5	98	1937	11	81.4	1995	56	1913	15	77.3	1977	0	448	20.8	31.0	31.0	.0	.0	.0
Aug	90.4	68.6	79.5	97	1951	26	81.6	1987	60+	1929	24	77.2+	1977	0	450	21.7	31.0	31.0	.0	.0	.0
Sep	90.3	68.2	79.3	98	1936	28	81.5	2000	60+	1979	5	76.8	1977	0	428	20.9	30.0	30.0	.0	.0	.0
Oct	90.0	67.1	78.6	96+	1981	12	80.7	2000	59	1918	17	76.0	1979	0	420	18.0	31.0	31.0	.0	.0	.0
Nov	88.1	66.2	77.2	99+	1924	25	79.0	2000	57	1996	11	73.9	1978	0	365	8.2	30.0	30.0	.0	.0	.0
Dec	86.3	63.8	75.1	95	1949	28	76.9	1982	52	1944	5	73.3	1978	0	311	2.9	30.9	31.0	.0	.0	.0
Ann	88.4	66.0	77.2	99+	Nov 1924	25	81.6	Aug 1987	50	Mar 1972	24	72.2	Jan 2000	0	4461	137.0	365.2	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: 1899-2001

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

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# 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: COLOSO, PR**

**COOP ID: 662801**

**Climate Division: PR 6**

**NWS Call Sign:**

**Elevation: 40 Feet**

**Lat: 18°23N**

**Lon: 67°10W**

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	2.03	1.65	3.68	1997	21	6.42	1997	.07	1980	6.5	4.1	1.2	.4	.21	.36	.64	.92	1.23	1.57	1.98	2.48	3.17	4.31	5.43
Feb	2.56	2.03	4.90	1984	13	8.00	1984	.00	1983	7.0	4.6	1.5	.5	.23	.52	.94	1.32	1.70	2.11	2.59	3.16	3.92	5.16	6.34
Mar	3.01	2.99	5.60	1933	3	6.61	1973	.61	1997	7.6	5.3	1.8	.7	.72	1.00	1.44	1.83	2.22	2.63	3.09	3.64	4.36	5.50	6.57
Apr	4.11	3.73	9.10	1983	18	10.23	1983	.23	1997	8.4	6.4	2.5	1.1	.57	.91	1.50	2.07	2.67	3.32	4.08	5.02	6.27	8.33	10.30
May	9.46	9.73	6.20	1932	6	19.21	1986	3.62	1990	14.6	12.1	6.5	3.0	3.87	4.73	5.96	6.96	7.91	8.87	9.91	11.10	12.62	14.93	17.04
Jun	9.71	9.45	4.75	1927	8	18.08	1987	3.93	1997	14.3	12.5	7.3	3.2	5.35	6.11	7.13	7.94	8.68	9.40	10.17	11.04	12.11	13.71	15.13
Jul	7.97	7.57	8.24	1965	22	12.48	1971	3.38	1974	12.7	10.9	6.0	2.6	4.00	4.67	5.58	6.31	6.98	7.65	8.36	9.16	10.17	11.69	13.04
Aug	10.10	10.15	6.40	1988	24	22.46	1974	5.31	1994	14.8	12.8	7.3	3.4	5.40	6.21	7.31	8.17	8.97	9.75	10.58	11.52	12.69	14.43	15.98
Sep	9.74	9.32	8.45	1932	27	21.89	1975	2.75	1971	14.7	12.8	7.3	3.1	4.21	5.08	6.31	7.31	8.25	9.19	10.21	11.38	12.85	15.09	17.12
Oct	8.61	8.96	5.66	1946	3	15.77	1979	3.34	1992	14.7	12.1	6.2	3.2	3.73	4.51	5.59	6.47	7.30	8.14	9.03	10.06	11.36	13.34	15.13
Nov	4.54	3.62	5.71	1899	15	10.24	1981	.81	1995	8.3	6.4	3.2	1.2	1.31	1.74	2.39	2.95	3.50	4.08	4.71	5.45	6.42	7.94	9.35
Dec	2.43	1.89	2.90	1986	1	8.65	1981	.23	1985	7.6	4.9	1.3	.4	.43	.64	1.00	1.33	1.67	2.04	2.46	2.97	3.64	4.74	5.79
Ann	74.27	72.09	9.10	Apr 1983	18	22.46	Aug 1974	.00	Feb 1983	131.2	104.9	52.1	22.8	59.89	62.82	66.48	69.21	71.60	73.88	76.22	78.77	81.82	86.18	89.90

+ 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: 1899-2001

(3) Derived from 1971-2000 daily data

Complete documentation available from:  
[www.ncdc.noaa.gov/oa/climate/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

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**Climate Division: PR 6**

**NWS Call Sign:**

**Elevation: 40 Feet**

**Lat: 18°23N**

**Lon: 67°10W**

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

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	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	1320	1186	1336	1329	1430	1411	1471	1473	1418	1443	1355	1334	16506
55	607	542	623	639	717	721	758	760	728	730	665	621	8111
57	545	486	561	579	655	661	696	698	668	668	605	559	7381
60	452	402	468	489	562	571	603	605	578	575	515	466	6286
65	297	262	313	339	407	421	448	450	428	420	365	311	4461
70	145	122	160	189	252	271	293	295	278	265	215	156	2641

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	1068	1003	1089	1099	1193	1176	1225	1232	1184	1200	1116	1086	1068	2071	3160	4259	5452	6628	7853	9085	10269	11469	12585	13671
45	913	858	934	949	1038	1026	1070	1077	1034	1045	966	931	913	1771	2705	3654	4692	5718	6788	7865	8899	9944	10910	11841
50	758	713	779	799	883	876	915	922	884	890	816	776	758	1471	2250	3049	3932	4808	5723	6645	7529	8419	9235	10011
55	603	568	624	649	728	726	760	767	734	735	666	621	603	1171	1795	2444	3172	3898	4658	5425	6159	6894	7560	8181
60	448	423	469	499	573	576	605	612	584	580	516	466	448	871	1340	1839	2412	2988	3593	4205	4789	5369	5885	6351
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	749	692	759	771	834	819	852	856	817	837	788	760	749	1441	2200	2971	3805	4624	5476	6332	7149	7986	8774	9534

(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)