

Climatology of the United States

No. 20

1971-2000

Station: JUNCOS 1 SE, PR

COOP ID: 665064

Climate Division: PR 5

NWS Call Sign:

Elevation: 213 Feet Lat: 18°14N Lon: 65°55W

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	83.7	62.9	73.3	96	1951	23	75.8	1998	50	1980	16	70.2	1976	0	256	@	31.0	31.0	.0	.0	.0
Feb	83.9	63.0	73.5	95+	1954	7	75.5	1995	50+	1949	4	71.7	1975	0	237	.1	28.3	28.3	.0	.0	.0
Mar	84.9	63.3	74.1	94	1981	22	76.6	1998	50+	1981	11	72.1	1974	0	281	.7	31.0	31.0	.0	.0	.0
Apr	86.4	65.8	76.1	96+	1999	27	78.9	1987	50+	1981	20	73.6	1974	0	333	2.5	30.0	30.0	.0	.0	.0
May	87.6	69.0	78.3	97	1939	24	80.9	1998	50	1950	17	75.6	1979	0	411	6.0	31.0	31.0	.0	.0	.0
Jun	88.4	71.0	79.7	96+	1999	26	82.3	1998	58+	1981	17	77.7	1971	0	441	8.6	30.0	30.0	.0	.0	.0
Jul	89.1	71.0	80.1	99	1954	15	82.3	1983	57	1936	25	78.1	1973	0	467	14.8	31.0	31.0	.0	.0	.0
Aug	89.3	70.6	80.0	98+	1954	8	82.3	1998	58+	1933	22	77.4	1973	0	464	15.2	31.0	31.0	.0	.0	.0
Sep	89.1	70.2	79.7	99	1954	8	81.8	1998	56	1981	21	77.1	1973	0	440	14.6	30.0	30.0	.0	.0	.0
Oct	88.3	69.4	78.9	97	1954	29	80.6	1998	55+	1944	17	76.3	1973	0	430	9.9	31.0	31.0	.0	.0	.0
Nov	86.5	67.6	77.1	96	1981	2	79.0	1997	51+	1959	29	74.6	1971	0	362	3.0	30.0	30.0	.0	.0	.0
Dec	84.4	64.6	74.5	98	1947	26	77.3	1987	51+	1989	22	71.8	1973	0	294	.2	31.0	31.0	.0	.0	.0
Ann	86.8	67.4	77.1	99+	Sep 1954	8	82.3+	Aug 1998	50+	Apr 1981	20	70.2	Jan 1976	0	4416	75.6	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

027-A

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: JUNCOS 1 SE, PR

COOP ID: 665064

Climate Division: PR 5

NWS Call Sign:

Elevation: 213 Feet

Lat: 18°14N

Lon: 65°55W

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	3.04	2.71	6.57	1992	6	8.97	1996	1.11	1977	15.7	7.6	1.1	.3	1.01	1.30	1.72	2.08	2.42	2.78	3.17	3.62	4.21	5.12	5.96	
Feb	2.92	2.72	3.74	1956	3	8.50	1995	.53	1983	13.3	7.3	1.3	.6	.78	1.05	1.48	1.85	2.21	2.60	3.02	3.52	4.18	5.21	6.18	
Mar	2.79	2.57	3.12	1969	1	7.26	1972	.63	1988	12.1	6.5	1.6	.6	.68	.94	1.35	1.71	2.07	2.44	2.87	3.37	4.03	5.07	6.05	
Apr	3.55	2.55	6.53	1943	25	10.12	1971	.78	1997	11.0	6.6	2.1	.9	.72	1.04	1.56	2.04	2.52	3.03	3.61	4.31	5.24	6.72	8.12	
May	6.57	5.80	6.18	1985	18	17.31	1985	.84	1974	15.3	10.5	3.8	1.9	1.24	1.83	2.79	3.68	4.58	5.56	6.67	8.00	9.78	12.63	15.34	
Jun	5.00	4.21	4.60	1970	17	12.79	1979	.35	1985	14.8	9.7	2.5	1.0	.93	1.38	2.11	2.79	3.48	4.22	5.07	6.09	7.45	9.63	11.71	
Jul	5.62	4.96	4.53	1944	12	11.44	1993	1.30	1971	15.6	9.8	3.6	1.3	1.95	2.48	3.25	3.90	4.53	5.17	5.87	6.69	7.74	9.36	10.85	
Aug	7.42	7.12	9.20	1979	31	16.09	1979	1.92	1987	16.6	11.2	3.9	1.7	2.93	3.61	4.59	5.39	6.15	6.93	7.77	8.73	9.96	11.85	13.56	
Sep	8.48	7.31	12.34	1996	10	26.70	1996	.61	1971	16.2	11.0	4.8	1.8	1.66	2.42	3.67	4.81	5.97	7.21	8.62	10.32	12.57	16.18	19.62	
Oct	7.50	5.87	10.90	1970	9	20.68	1985	2.29	1992	17.7	11.7	4.6	1.6	2.42	3.13	4.18	5.08	5.94	6.83	7.81	8.96	10.44	12.73	14.85	
Nov	7.23	6.46	12.28	1987	27	25.16	1987	.93	1989	17.3	11.7	4.3	1.8	1.31	1.95	3.01	3.99	5.00	6.08	7.32	8.82	10.81	14.03	17.09	
Dec	4.65	4.10	14.40	1987	8	19.44	1987	.46	1989	16.8	9.7	2.2	.8	.79	1.20	1.88	2.52	3.17	3.88	4.69	5.68	7.00	9.12	11.16	
Ann	64.77	63.25	14.40	Dec 1987	8	26.70	Sep 1996	.35	Jun 1985	182.4	113.3	35.8	14.3	43.60	47.61	52.80	56.77	60.31	63.75	67.33	71.30	76.13	83.19	89.33	

+ 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:

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

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: JUNCOS 1 SE, PR

COOP ID: 665064

Climate Division: PR 5

NWS Call Sign:

Elevation: 213 Feet

Lat: 18°14N

Lon: 65°55W

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:

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

**Climatography
of the United States
No. 20
1971-2000**

Station: JUNCOS 1 SE, PR

COOP ID: 665064

Climate Division: PR 5

NWS Call Sign:

Elevation: 213 Feet

Lat: 18° 14N

Lon: 65° 55W

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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatology
of the United States
No. 20
1971-2000**

Station: JUNCOS 1 SE, PR

COOP ID: 665064

Climate Division: PR 5

NWS Call Sign:

Elevation: 213 Feet Lat: 18°14N Lon: 65°55W

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	1279	1161	1304	1323	1434	1431	1490	1487	1430	1453	1352	1317	16461
55	566	517	591	633	721	741	777	774	740	740	662	604	8066
57	504	461	529	573	659	681	715	712	680	678	602	542	7336
60	411	377	436	483	566	591	622	619	590	585	512	449	6241
65	256	237	281	333	411	441	467	464	440	430	362	294	4416
70	109	100	130	184	256	291	312	309	290	275	212	146	2614

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	1036	979	1068	1087	1192	1196	1249	1245	1194	1212	1118	1073	1036	2015	3083	4170	5362	6558	7807	9052	10246	11458	12576	13649
45	881	834	913	937	1037	1046	1094	1090	1044	1057	968	918	881	1715	2628	3565	4602	5648	6742	7832	8876	9933	10901	11819
50	726	689	758	787	882	896	939	935	894	902	818	763	726	1415	2173	2960	3842	4738	5677	6612	7506	8408	9226	9989
55	571	544	603	637	727	746	784	780	744	747	668	608	571	1115	1718	2355	3082	3828	4612	5392	6136	6883	7551	8159
60	416	399	448	487	572	596	629	625	594	592	518	453	416	815	1263	1750	2322	2918	3547	4172	4766	5358	5876	6329
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	726	687	747	769	852	862	897	888	840	866	798	759	726	1413	2160	2929	3781	4643	5540	6428	7268	8134	8932	9691

(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.

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