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: LAJAS SUBSTATION, PR **COOP ID: 665097**

Climate Division: PR 2 **NWS Call Sign:** **Elevation: 90 Feet** **Lat: 18˚02N** **Lon: 67˚04W**

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	86.7	60.6	73.7	91	1996	18	75.8	1981	50	1993	25	71.0	1974	0	268	.5	30.4	31.0	.0	.0	.0
Feb	86.6	61.1	73.9	91+	2001	11	76.1	1998	52+	1965	13	71.5	1993	0	248	.8	28.3	28.3	.0	.0	.0
Mar	87.3	62.1	74.7	93	1986	3	77.6	1981	50+	1951	28	71.9	1974	0	301	2.1	31.0	31.0	.0	.0	.0
Apr	88.3	64.5	76.4	95	1969	28	79.8	1987	50	1953	3	74.2	1994	0	342	7.5	30.0	30.0	.0	.0	.0
May	89.3	67.8	78.6	95+	1999	24	81.0	1999	56	1974	1	76.7	1996	0	421	15.7	31.0	31.0	.0	.0	.0
Jun	90.8	69.3	80.1	99	1997	24	82.5	1997	60	1956	13	77.4	1996	0	451	24.4	30.0	30.0	.0	.0	.0
Jul	91.4	68.9	80.2	99	1993	19	82.5	1997	60+	1956	17	78.1	1971	0	469	27.1	31.0	31.0	.0	.0	.0
Aug	91.2	68.9	80.1	97+	1994	2	82.0	1998	60	1953	5	77.5	1996	0	467	26.0	31.0	31.0	.0	.0	.0
Sep	90.8	68.9	79.9	96	1993	5	81.6	1987	61+	1997	29	77.7+	1996	0	445	22.5	30.0	30.0	.0	.0	.0
Oct	89.8	68.8	79.3	97	1953	1	81.1	1987	60+	1998	10	77.6	1984	0	443	17.5	31.0	31.0	.0	.0	.0
Nov	88.9	66.1	77.5	95+	2001	5	79.5	1981	55	1955	26	75.0	1973	0	374	9.6	30.0	30.0	.0	.0	.0
Dec	87.4	62.5	75.0	92+	2001	10	77.7	1987	52+	1991	15	72.0	1973	0	308	1.3	31.0	31.0	.0	.0	.0
Ann	89.0	65.8	77.5	99+	Jun 1997	24	82.5+	Jul 1997	50+	Jan 1993	25	71.0	Jan 1974	0	4537	155.0	364.7	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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1900-2001

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

Issue Date: May 2005

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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	1.96	1.48	10.00	1992	6	10.27	1992	.01	1975
Feb	2.12	1.87	3.67	1996	11	7.84	1996	.02	1994
Mar	1.99	1.49	2.68	1989	12	9.78	1989	.08	1977
Apr	2.74	2.43	2.83	1954	7	6.91	1989	.34	1974
May	4.15	3.31	14.19	2001	7	13.24	1986	.00	1994
Jun	2.71	1.90	6.25	1990	15	9.62	1979	.06	1997
Jul	2.66	2.13	5.81	1984	5	7.11	1984	.81	1976
Aug	5.69	5.06	9.20	1978	17	16.05	1988	1.39	1980
Sep	6.54	5.47	12.26	1975	17	19.53	1975	.96	1983
Oct	6.80	6.09	8.45	1985	7	20.56	1990	1.43	1979
Nov	5.36	5.38	6.79	1987	28	15.38	1987	.07	1980
Dec	2.29	1.92	4.15	1981	11	6.88	1981	.14	1985
Ann	45.01	45.20	14.19	May 2001	7	20.56	Oct 1990	.00	May 1994

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.8	3.3	1.0	.4
Feb	6.4	3.2	1.2	.6
Mar	6.7	3.7	1.1	.5
Apr	7.6	5.0	1.6	.7
May	9.1	5.6	2.1	1.2
Jun	6.5	3.7	1.5	.7
Jul	8.6	5.1	1.7	.6
Aug	11.0	7.5	3.1	1.8
Sep	12.2	8.4	3.8	1.7
Oct	14.0	9.4	4.4	2.0
Nov	12.5	7.8	3.5	1.5
Dec	8.0	4.5	1.5	.5
Ann	109.4	67.2	26.5	12.2

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	.14	.34	.59	.88	1.25	1.71	2.32	3.20	4.74	6.29
Feb	.11	.23	.48	.77	1.09	1.48	1.95	2.55	3.41	4.86	6.32
Mar	.21	.35	.63	.90	1.20	1.54	1.94	2.43	3.11	4.23	5.33
Apr	.45	.69	1.09	1.46	1.85	2.27	2.76	3.34	4.13	5.40	6.62
May	.08	.31	.82	1.39	2.05	2.83	3.79	5.02	6.76	9.72	12.69
Jun	.22	.41	.76	1.14	1.55	2.02	2.59	3.30	4.28	5.93	7.55
Jul	.85	1.10	1.47	1.79	2.10	2.42	2.77	3.18	3.71	4.53	5.30
Aug	1.52	2.06	2.89	3.61	4.32	5.06	5.89	6.87	8.15	10.15	12.02
Sep	1.26	1.85	2.81	3.69	4.59	5.56	6.65	7.97	9.72	12.53	15.20
Oct	1.41	2.03	3.03	3.94	4.86	5.84	6.94	8.27	10.02	12.83	15.48
Nov	.68	1.11	1.87	2.62	3.41	4.28	5.30	6.55	8.25	11.04	13.73
Dec	.33	.52	.85	1.16	1.49	1.86	2.28	2.79	3.49	4.62	5.71
Ann	27.51	30.71	34.91	38.17	41.11	44.00	47.02	50.40	54.55	60.67	66.05

\+ 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: 1900-2001
(3) Derived from 1971-2000 daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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

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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	1291	1172	1324	1332	1444	1441	1492	1490	1435	1466	1364	1331	16582
55	578	528	611	642	731	751	779	777	745	753	674	618	8187
57	516	472	549	582	669	691	717	715	685	691	614	556	7457
60	423	388	456	492	576	601	624	622	595	598	524	463	6362
65	268	248	301	342	421	451	469	467	445	443	374	308	4537
70	118	112	150	193	266	301	314	312	295	288	224	157	2730

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	1046	989	1091	1111	1217	1218	1267	1261	1204	1219	1133	1086	1046	2035	3126	4237	5454	6672	7939	9200	10404	11623	12756	13842
45	891	844	936	961	1062	1068	1112	1106	1054	1064	983	931	891	1735	2671	3632	4694	5762	6874	7980	9034	10098	11081	12012
50	736	699	781	811	907	918	957	951	904	909	833	776	736	1435	2216	3027	3934	4852	5809	6760	7664	8573	9406	10182
55	581	554	626	661	752	768	802	796	754	754	683	621	581	1135	1761	2422	3174	3942	4744	5540	6294	7048	7731	8352
60	426	409	471	511	597	618	647	641	604	599	533	466	426	835	1306	1817	2414	3032	3679	4320	4924	5523	6056	6522
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	722	692	753	768	851	840	868	866	839	853	789	759	722	1414	2167	2935	3786	4626	5494	6360	7199	8052	8841	9600

(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