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: ADJUNTAS SUBSTATION, PR **COOP ID: 660061**

Climate Division: PR 6 **NWS Call Sign:** **Elevation: 1,830 Feet** **Lat: 18˚10N** **Lon: 66˚48W**

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	79.3	54.9	67.1	89+	1987	5	70.4	1998	42	1991	22	65.0	1976	15	80	.0	30.9	31.0	.0	.0	.0
Feb	79.5	54.4	67.0	89+	1998	28	69.4	1998	43	1992	2	65.0	1975	7	64	.0	28.2	28.3	.0	.0	.0
Mar	80.5	55.0	67.8	90	1984	9	71.0	1998	40	1993	3	65.3	1976	9	94	@	30.9	31.0	.0	.0	.0
Apr	81.3	57.7	69.5	93	1983	26	71.9	1998	47+	1986	28	67.7	1985	2	138	@	30.0	30.0	.0	.0	.0
May	82.5	60.9	71.7	93	1990	26	74.2	1998	48	1992	5	69.7	1974	0	208	.1	31.0	31.0	.0	.0	.0
Jun	84.3	62.4	73.4	92+	1982	30	75.5	1998	54+	1995	17	71.6	1975	0	250	.4	30.0	30.0	.0	.0	.0
Jul	84.6	62.3	73.5	92	1986	15	75.5	1995	54+	1984	19	71.2	1971	0	263	.2	31.0	31.0	.0	.0	.0
Aug	84.9	62.4	73.7	91+	1987	22	75.8	1998	52+	1989	26	71.7	1988	0	269	.3	31.0	31.0	.0	.0	.0
Sep	84.3	62.4	73.4	91+	1995	4	75.4	1998	49	1989	8	72.1+	1988	0	250	.1	30.0	30.0	.0	.0	.0
Oct	83.8	61.6	72.7	91	1995	17	75.2	1998	48	1989	17	70.7	1983	0	239	.2	31.0	31.0	.0	.0	.0
Nov	82.3	60.3	71.3	93	1980	23	73.1	1998	46	1988	29	69.3	1973	0	188	.1	30.0	30.0	.0	.0	.0
Dec	79.8	57.5	68.7	88+	1997	25	71.9	1998	42	1991	24	66.1	1991	11	122	.0	30.9	31.0	.0	.0	.0
Ann	82.3	59.3	70.8	93+	May 1990	26	75.8	Aug 1998	40	Mar 1993	3	65.0+	Jan 1976	44	2165	1.4	364.9	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: 1970-2001

(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	2.37	2.12	6.63	1992	6	7.82	1992	.31	1985
Feb	2.72	2.44	4.81	1998	5	7.18	1995	.23	1994
Mar	3.81	2.79	4.29	1992	9	10.31	1989	1.24	1981
Apr	6.05	5.63	5.29	1983	21	11.17	1980	.29	1997
May	8.23	8.19	14.20	1985	18	20.76	1985	1.09	1974
Jun	4.83	4.41	5.94	1979	11	13.80	1979	.19	1982
Jul	6.23	5.70	3.59	1971	4	13.33	1971	1.93	2000
Aug	8.20	8.01	8.73	1988	25	15.79	1988	2.99	1984
Sep	12.13	11.25	11.99	1975	16	32.66	1998	3.95	1986
Oct	10.88	10.22	11.70	1985	7	27.69	1985	4.85	1993
Nov	5.50	4.97	4.53	1987	28	12.22	1999	.77	1980
Dec	2.72	2.38	2.40	1980	7	7.55	1992	.10	1985
Ann	73.67	72.24	14.20	May 1985	18	32.66	Sep 1998	.10	Dec 1985

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.7	4.6	1.2	.4
Feb	10.6	4.7	1.5	.7
Mar	12.6	6.4	2.3	1.0
Apr	12.5	8.0	3.9	2.0
May	15.3	10.2	4.6	2.8
Jun	10.8	7.2	3.0	1.4
Jul	14.8	9.8	4.2	1.8
Aug	16.8	11.5	5.4	2.2
Sep	19.5	13.5	6.9	3.4
Oct	20.6	14.1	7.1	3.1
Nov	16.2	9.0	3.3	1.5
Dec	13.3	6.0	1.5	.3
Ann	175.7	105.0	44.9	20.6

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	.37	.57	.92	1.24	1.58	1.95	2.37	2.89	3.58	4.70	5.78
Feb	.40	.62	1.01	1.39	1.78	2.22	2.71	3.32	4.14	5.48	6.77
Mar	.81	1.16	1.72	2.23	2.74	3.28	3.89	4.63	5.59	7.14	8.60
Apr	1.29	1.84	2.73	3.54	4.35	5.21	6.19	7.35	8.90	11.36	13.69
May	1.47	2.19	3.40	4.52	5.67	6.91	8.33	10.04	12.32	16.00	19.51
Jun	.68	1.08	1.77	2.44	3.14	3.92	4.81	5.90	7.38	9.78	12.10
Jul	2.34	2.92	3.75	4.45	5.11	5.78	6.52	7.36	8.45	10.11	11.63
Aug	3.83	4.55	5.53	6.33	7.07	7.81	8.60	9.51	10.65	12.36	13.91
Sep	4.40	5.54	7.18	8.56	9.87	11.22	12.68	14.37	16.54	19.89	22.95
Oct	4.62	5.61	6.99	8.12	9.18	10.25	11.40	12.73	14.40	16.96	19.27
Nov	1.15	1.65	2.46	3.20	3.94	4.73	5.62	6.69	8.11	10.37	12.51
Dec	.43	.66	1.06	1.43	1.82	2.24	2.72	3.32	4.11	5.39	6.62
Ann	50.81	55.18	60.81	65.10	68.93	72.64	76.48	80.73	85.91	93.44	99.97

\+ 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: 1970-2001
(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	15	7	9	2	0	0	0	0	0	0	0	11	44
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	1088	979	1108	1126	1231	1240	1286	1292	1240	1262	1178	1135	14165
55	375	335	395	436	518	550	573	579	550	549	488	422	5770
57	313	279	333	376	456	490	511	517	490	487	428	360	5040
60	220	195	240	286	363	400	418	424	400	394	338	267	3945
65	80	64	94	138	208	250	263	269	250	239	188	122	2165
70	10	4	12	30	73	104	111	116	102	92	56	30	740

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	850	789	872	897	993	1010	1048	1051	1003	1015	945	889	850	1639	2511	3408	4401	5411	6459	7510	8513	9528	10473	11362
45	695	644	717	747	838	860	893	896	853	860	795	734	695	1339	2056	2803	3641	4501	5394	6290	7143	8003	8798	9532
50	540	499	562	597	683	710	738	741	703	705	645	579	540	1039	1601	2198	2881	3591	4329	5070	5773	6478	7123	7702
55	385	354	407	447	528	560	583	586	553	550	495	424	385	739	1146	1593	2121	2681	3264	3850	4403	4953	5448	5872
60	230	209	253	297	373	410	428	431	403	395	345	269	230	439	692	989	1362	1772	2200	2631	3034	3429	3774	4043
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	544	503	564	597	682	707	736	738	701	704	644	580	544	1047	1611	2208	2890	3597	4333	5071	5772	6476	7120	7700

(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:
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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