

# Climatology of the United States No. 20

Station: TRUJILLO ALTO 2 SSW, PR

1971-2000

COOP ID: 669521

Climate Division: PR 3

NWS Call Sign:

Elevation: 115 Feet

Lat: 18°20N

Lon: 66°01W

## 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	84.6	66.3	75.5	96+	2001	27	77.5	1998	58+	1973	16	72.7	1976	0	324	.1	31.0	31.0	.0	.0	.0
Feb	85.0	65.9	75.5	93+	1993	27	77.2	1998	57+	1970	18	73.3	1976	0	292	.7	28.3	28.3	.0	.0	.0
Mar	85.9	66.3	76.1	95	1970	26	78.2	1983	56	1986	27	73.4	1976	0	344	1.5	31.0	31.0	.0	.0	.0
Apr	87.2	68.2	77.7	98+	1993	29	80.1	1993	54	1968	30	75.3	1976	0	381	5.2	30.0	30.0	.0	.0	.0
May	88.6	70.4	79.5	97	1985	9	82.1	1994	57	1982	6	77.6	1979	0	449	8.8	31.0	31.0	.0	.0	.0
Jun	89.9	71.7	80.8	98+	1988	14	83.6	1988	64+	1974	12	79.1+	1996	0	475	14.7	30.0	30.0	.0	.0	.0
Jul	89.9	71.9	80.9	94+	1995	10	82.4	1992	65+	1974	27	77.9	1976	0	494	16.1	31.0	31.0	.0	.0	.0
Aug	90.0	72.3	81.2	95+	1994	13	83.6	1993	65+	1989	11	79.6	1972	0	500	15.8	31.0	31.0	.0	.0	.0
Sep	90.0	72.2	81.1	97+	2001	13	83.3	1993	60	1982	12	78.9	1979	0	483	15.6	30.0	30.0	.0	.0	.0
Oct	89.3	71.6	80.5	97+	1992	19	82.4	1993	62	1968	1	78.4	1985	0	478	13.5	31.0	31.0	.0	.0	.0
Nov	87.4	69.9	78.7	97	1994	17	80.3	1990	60+	1985	13	77.4	1982	0	410	4.6	30.0	30.0	.0	.0	.0
Dec	85.1	67.7	76.4	93	1995	5	78.6	1997	58	1976	31	73.9	1996	0	354	.9	31.0	31.0	.0	.0	.0
Ann	87.7	69.5	78.7	98+	Apr 1993	29	83.6+	Aug 1993	54	Apr 1968	30	72.7	Jan 1976	0	4984	97.5	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](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: 1957-2001

(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: TRUJILLO ALTO 2 SSW, PR

COOP ID: 669521

Climate Division: PR 3

NWS Call Sign:

Elevation: 115 Feet Lat: 18°20N

Lon: 66°01W

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	3.98	3.73	4.01	1992	6	9.13	1996	.97	1983	15.2	9.6	2.2	.5	1.39	1.76	2.31	2.77	3.21	3.66	4.16	4.73	5.47	6.61	7.65
Feb	3.60	3.52	6.60	1979	15	10.27	1979	.66	1983	11.0	7.2	2.1	.7	.68	1.00	1.53	2.01	2.51	3.04	3.65	4.38	5.35	6.91	8.40
Mar	3.35	3.08	3.97	1969	1	9.51	1972	1.34	1971	10.9	7.5	2.1	.9	1.23	1.54	1.99	2.37	2.73	3.10	3.50	3.97	4.56	5.48	6.31
Apr	5.08	4.43	6.02	1987	13	13.29	1987	.40	1997	10.4	7.5	2.6	1.4	1.04	1.50	2.24	2.92	3.61	4.35	5.18	6.18	7.50	9.61	11.62
May	6.92	6.07	6.05	1959	3	16.63	1979	.56	1994	12.7	9.6	4.2	2.1	1.50	2.14	3.16	4.07	4.99	5.97	7.08	8.40	10.14	12.92	15.55
Jun	4.53	3.41	9.50	1970	17	11.11	1985	.95	1994	10.0	7.2	2.7	1.2	.78	1.17	1.83	2.45	3.09	3.78	4.57	5.52	6.80	8.86	10.83
Jul	5.69	5.84	4.25	1972	23	11.00	1993	1.41	1976	14.8	10.3	3.3	1.3	1.91	2.45	3.24	3.91	4.55	5.21	5.94	6.79	7.88	9.56	11.12
Aug	7.63	7.50	5.55	2000	23	15.23	1998	2.83	1999	15.2	11.0	4.5	2.0	3.12	3.82	4.81	5.62	6.39	7.16	8.00	8.96	10.19	12.05	13.75
Sep	7.71	6.00	9.83	1996	11	24.65	1996	1.75	1986	15.6	11.5	4.6	1.8	1.99	2.72	3.84	4.82	5.80	6.82	7.96	9.31	11.08	13.86	16.46
Oct	7.42	7.58	5.60	1970	7	15.96	1990	.40	1989	15.8	11.3	5.1	2.2	1.57	2.25	3.34	4.33	5.32	6.38	7.58	9.02	10.91	13.93	16.79
Nov	7.27	6.16	9.02	2001	8	16.55	1977	2.22	1980	17.2	12.9	4.9	1.7	2.32	3.01	4.03	4.90	5.75	6.62	7.57	8.69	10.14	12.38	14.46
Dec	5.87	5.01	4.65+	1981	13	13.83	1981	.94	1997	17.1	12.3	3.6	1.1	1.52	2.07	2.93	3.68	4.42	5.19	6.06	7.09	8.42	10.54	12.51
Ann	69.05	65.91	9.83	Sep 1996	11	24.65	Sep 1996	.40+	Apr 1997	165.9	117.9	41.9	16.9	47.32	51.47	56.81	60.89	64.52	68.05	71.70	75.76	80.69	87.87	94.10

+ 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: 1957-2001

(3) Derived from 1971-2000 daily data

Complete documentation available from:  
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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COOP ID: 669521

Climate Division: PR 3

NWS Call Sign:

Elevation: 115 Feet

Lat: 18°20N

Lon: 66°01W

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	1347	1216	1367	1371	1472	1465	1517	1523	1473	1501	1400	1377	17029
55	634	572	654	681	759	775	804	810	783	788	710	664	8634
57	572	516	592	621	697	715	742	748	723	726	650	602	7904
60	479	432	499	531	604	625	649	655	633	633	560	509	6809
65	324	292	344	381	449	475	494	500	483	478	410	354	4984
70	169	152	189	231	294	325	339	345	333	323	260	199	3159

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	1103	1031	1120	1135	1228	1225	1270	1275	1232	1254	1163	1130	1103	2134	3254	4389	5617	6842	8112	9387	10619	11873	13036	14166
45	948	886	965	985	1073	1075	1115	1120	1082	1099	1013	975	948	1834	2799	3784	4857	5932	7047	8167	9249	10348	11361	12336
50	793	741	810	835	918	925	960	965	932	944	863	820	793	1534	2344	3179	4097	5022	5982	6947	7879	8823	9686	10506
55	638	596	655	685	763	775	805	810	782	789	713	665	638	1234	1889	2574	3337	4112	4917	5727	6509	7298	8011	8676
60	483	451	500	535	608	625	650	655	632	634	563	510	483	934	1434	1969	2577	3202	3852	4507	5139	5773	6336	6846
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	785	729	801	809	880	872	900	906	871	900	835	813	785	1514	2315	3124	4004	4876	5776	6682	7553	8453	9288	10101

(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)