

**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: GUAJATACA DAM, PR

COOP ID: 663904

Climate Division: PR 6

NWS Call Sign:

Elevation: 663 Feet Lat: 18°24N

Lon: 66°56W

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	3.14	2.59	4.05	1997	22	13.43	1997	.32	1976	8.8	6.1	1.9	.7	.26	.48	.89	1.32	1.80	2.35	3.00	3.82	4.95	6.85	8.71
Feb	3.32	2.99	3.44	1967	27	13.80	1978	.15	1975	8.1	5.5	1.8	1.0	.42	.68	1.15	1.61	2.10	2.65	3.28	4.06	5.12	6.86	8.54
Mar	3.98	3.50	5.00	1963	24	9.97	1981	.34	1977	8.1	5.7	2.5	1.0	.57	.90	1.47	2.02	2.60	3.23	3.96	4.86	6.06	8.03	9.92
Apr	5.57	4.78	4.50	1983	21	15.78	1993	.12	1975	10.0	7.4	3.8	1.7	.45	.82	1.55	2.32	3.17	4.14	5.31	6.78	8.81	12.22	15.58
May	10.52	10.62	7.55	1995	14	22.42	1986	3.18	1976	14.2	12.2	6.6	3.5	4.24	5.21	6.57	7.70	8.77	9.85	11.02	12.37	14.08	16.69	19.08
Jun	6.88	6.38	5.60	1974	11	13.54	1999	1.21	2000	12.3	9.9	4.7	2.2	2.37	3.02	3.97	4.77	5.53	6.32	7.18	8.18	9.47	11.46	13.29
Jul	5.08	5.09	4.75	1990	6	11.43	1989	.64	1983	10.4	8.0	3.5	1.4	1.42	1.91	2.64	3.27	3.90	4.55	5.26	6.11	7.22	8.95	10.56
Aug	6.90	6.63	4.60	1956	12	13.58	1998	2.18	1990	13.9	10.8	4.7	1.9	2.87	3.50	4.39	5.11	5.79	6.48	7.23	8.09	9.17	10.82	12.33
Sep	8.66	7.54	6.00	1998	22	16.46	1984	4.11	1977	13.9	11.6	5.4	2.5	3.85	4.62	5.69	6.57	7.38	8.20	9.08	10.09	11.36	13.29	15.03
Oct	9.35	9.24	4.30	1972	22	19.67	1985	2.95	1975	15.7	13.0	6.5	3.0	3.24	4.12	5.41	6.50	7.53	8.60	9.77	11.12	12.86	15.56	18.03
Nov	5.90	4.95	7.54	1968	27	14.12	1982	.95	1980	11.0	8.9	3.8	1.9	1.36	1.90	2.77	3.54	4.31	5.13	6.05	7.15	8.59	10.89	13.05
Dec	3.74	2.74	6.00	1981	14	12.96	1981	.37	1989	11.0	7.2	2.3	1.0	.39	.67	1.18	1.70	2.26	2.89	3.64	4.56	5.82	7.91	9.95
Ann	73.04	71.82	7.55	May 1995	14	22.42	May 1986	.12	Apr 1975	137.4	106.3	47.5	21.8	53.15	57.03	61.99	65.74	69.06	72.27	75.57	79.21	83.62	90.00	95.50

+ 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: 1955-2001

(3) Derived from 1971-2000 daily data

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