

Climatology of the United States

No. 20 1971-2000

Station: TAMPA INTL AP, FL

COOP ID: 088788

Climate Division: FL 4

NWS Call Sign: TPA

Elevation: 19 Feet

Lat: 27°58N

Lon: 82°32W

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	2.27	2.01	3.40	1996	1	5.72	1979	.17	1974	7.1	4.1	1.7	.5	.35	.54	.87	1.18	1.50	1.86	2.27	2.77	3.44	4.53	5.58	
Feb	2.67	2.08	5.06	1937	10	10.82	1998	.29	1999	6.4	4.1	1.8	.7	.24	.42	.78	1.15	1.56	2.02	2.57	3.26	4.20	5.78	7.33	
Mar	2.84	2.19	4.33	1957	21	12.01	1987	.41	2000	6.6	4.1	1.8	.8	.39	.62	1.02	1.42	1.83	2.29	2.82	3.47	4.35	5.79	7.18	
Apr	1.80	1.48	5.44	1997	26	10.71	1997	.00	1981	4.7	3.1	1.1	.4	.08	.23	.50	.77	1.05	1.37	1.75	2.22	2.86	3.93	4.98	
May	2.85	1.75	11.45	1979	8	17.64	1979	.02	2000	6.2	3.8	1.6	.6	.06	.16	.42	.76	1.19	1.73	2.41	3.33	4.68	7.04	9.47	
Jun	5.50	5.08	9.88	1945	23	13.75	1974	1.46	1997	11.7	8.2	3.6	1.6	1.72	2.24	3.02	3.68	4.33	4.99	5.72	6.58	7.69	9.41	11.01	
Jul	6.49	6.31	9.07	1960	29	12.95	1998	1.65	1981	14.9	10.3	4.7	1.8	2.41	3.02	3.89	4.62	5.31	6.02	6.79	7.68	8.81	10.56	12.16	
Aug	7.60	7.54	4.92	1949	12	13.75	1995	3.27	1990	16.0	11.3	5.3	2.5	4.15	4.75	5.56	6.19	6.78	7.35	7.96	8.65	9.50	10.76	11.89	
Sep	6.54	5.96	7.59	1997	26	13.98	1979	1.28	1972	12.4	8.4	4.1	2.3	1.94	2.56	3.49	4.29	5.08	5.89	6.79	7.85	9.22	11.36	13.34	
Oct	2.29	2.03	3.61	1944	19	6.21	1986	.06	2000	6.5	3.5	1.4	.8	.12	.25	.53	.83	1.19	1.60	2.11	2.76	3.68	5.25	6.81	
Nov	1.62	1.30	3.81	1963	10	5.97	1988	.01	1978	5.5	3.0	.9	.3	.09	.18	.38	.60	.85	1.14	1.50	1.96	2.60	3.70	4.79	
Dec	2.30	1.46	4.32	1997	27	15.57	1997	.07	1984	6.3	3.6	1.4	.6	.14	.28	.56	.88	1.23	1.64	2.14	2.78	3.67	5.19	6.69	
Ann	44.77	43.30	11.45	May 1979	8	17.64	May 1979	.00	Apr 1981	104.3	67.5	29.4	12.9	29.68	32.52	36.21	39.04	41.57	44.03	46.59	49.43	52.90	57.98	62.40	

+ 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 serially complete 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/normal/usnormals.html
- f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set.
Documentation of the serially complete data set is available from the link below:
- g. Snowfall and snow depth statistics were derived from 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 difference 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.

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| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

- U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html
Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,
www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf