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: TAMIAMI TRAIL 40 MI BEND, FL **COOP ID: 088780**

Climate Division: FL 5 **NWS Call Sign:** **Elevation: 15 Feet** **Lat: 25˚46N** **Lon: 80˚49W**

Temperature (˚F)

Month	Mean (1)			Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
	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 >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	77.3	56.6	67.0	89+	1996	28	73.1	1993	28	1985	22	58.0	1981	101	155	.0	.0	31.0	.0	.3	.0
Feb	78.4	56.7	67.6	91	1957	11	73.9	1997	31	1958	5	60.2	1978	55	127	.0	@	28.2	.0	.0	.0
Mar	81.7	59.3	70.5	93	1965	31	76.1	1997	34+	1980	4	65.7	1971	17	188	.0	1.0	31.0	.0	.0	.0
Apr	85.3	62.0	73.7	98	1988	20	78.1	1994	41	1950	7	69.5	1987	2	261	.0	5.2	30.0	.0	.0	.0
May	89.2	66.9	78.1	98+	1989	18	83.2	1995	45	1992	8	74.5	1992	0	404	.0	14.3	31.0	.0	.0	.0
Jun	91.0	71.8	81.4	102	1981	17	84.6	1998	59	1971	1	78.0	1971	0	493	.1	20.6	30.0	.0	.0	.0
Jul	92.3	74.1	83.2	101	1968	14	85.6	1996	62	1948	9	80.1	1985	0	563	.0	27.1	31.0	.0	.0	.0
Aug	92.5	74.8	83.7	101	1989	3	86.1	1997	64+	1992	30	81.4	1971	0	579	@	27.1	31.0	.0	.0	.0
Sep	91.0	74.6	82.8	98	1968	15	84.5	1996	65+	1985	20	80.3	1985	0	535	.0	21.7	30.0	.0	.0	.0
Oct	87.1	71.2	79.2	97	1995	4	82.6	1995	40	1952	3	75.7	1987	0	439	.0	9.0	31.0	.0	.0	.0
Nov	82.5	65.3	73.9	93+	1996	2	79.1	1986	36	1970	25	69.7	1984	4	271	.0	1.0	30.0	.0	.0	.0
Dec	78.4	59.1	68.8	95	1978	8	74.4	1971	28	1989	25	63.4	1989	45	162	.0	.1	31.0	.0	.1	.0
Ann	85.6	66.0	75.8	102	Jun 1981	17	86.1	Aug 1997	28+	Dec 1989	25	58.0	Jan 1981	224	4177	.1	127.1	365.2	.0	.4	.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: 1948-2001

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

Issue Date: February 2004

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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	1.83	1.71	2.72	1983	23	5.52	1983	.16	1984
Feb	1.85	1.28	3.83	1998	3	7.54	1983	.06	1989
Mar	2.02	1.69	4.15	1987	7	7.68	1987	.00	1974
Apr	2.59	1.95	5.45	2000	14	8.59	1980	.00	1971
May	4.83	4.35	5.00	1958	24	11.96	1976	.15	1992
Jun	8.65	8.08	6.06	1959	18	18.57	1982	1.54	1998
Jul	7.81	7.86	4.10	1999	1	15.27	1991	1.03	1992
Aug	6.95	6.91	5.10	1981	18	13.01	1976	2.67	1984
Sep	6.70	6.65	6.55	1960	10	12.03	1987	2.21	1980
Oct	4.29	3.09	7.50	1999	16	16.97	1999	.14	1977
Nov	2.34	1.71	4.26	1998	5	8.24	1994	.00	2000
Dec	1.69	1.19	2.80	1997	5	6.27	1997	.08	1988
Ann	51.55	50.84	7.50	Oct 1999	16	18.57	Jun 1982	.00+	Nov 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.5	3.2	1.1	.3
Feb	6.2	3.2	1.0	.4
Mar	5.8	3.1	1.2	.4
Apr	6.2	3.9	1.7	.7
May	10.0	6.8	3.2	1.4
Jun	15.8	11.6	5.6	2.6
Jul	16.6	11.7	5.2	2.5
Aug	16.5	11.4	4.3	1.9
Sep	15.1	10.4	4.0	1.8
Oct	9.5	6.2	2.4	1.0
Nov	7.3	3.6	1.5	.6
Dec	6.5	2.7	.8	.3
Ann	122.0	77.8	32.0	13.9

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	.25	.40	.66	.91	1.18	1.47	1.81	2.23	2.80	3.73	4.62
Feb	.12	.24	.47	.72	1.00	1.33	1.73	2.24	2.94	4.14	5.32
Mar	.04	.16	.41	.69	1.02	1.40	1.86	2.45	3.29	4.71	6.14
Apr	.06	.23	.58	.94	1.36	1.84	2.42	3.16	4.19	5.94	7.68
May	.53	.90	1.57	2.25	2.97	3.77	4.72	5.89	7.49	10.14	12.71
Jun	3.08	3.90	5.08	6.07	7.01	7.99	9.04	10.27	11.84	14.27	16.50
Jul	2.40	3.14	4.25	5.20	6.12	7.08	8.13	9.36	10.96	13.45	15.75
Aug	3.39	3.99	4.80	5.45	6.05	6.65	7.29	8.02	8.93	10.30	11.53
Sep	2.81	3.42	4.28	4.98	5.64	6.31	7.02	7.85	8.89	10.48	11.93
Oct	.33	.61	1.17	1.76	2.42	3.17	4.07	5.21	6.79	9.45	12.06
Nov	.09	.28	.62	.96	1.33	1.75	2.25	2.87	3.73	5.16	6.56
Dec	.14	.25	.47	.70	.96	1.26	1.61	2.05	2.67	3.70	4.71
Ann	35.54	38.60	42.54	45.55	48.23	50.83	53.52	56.51	60.14	65.42	70.00

+ 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: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

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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	2/13	1/30	1/17	12/29	0/00	0/00	0/00	0/00	0/00
32	1/14	12/30	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	1/06	1/23	2/09	0/00	0/00	0/00	0/00	0/00	0/00
32	1/05	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	335
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	101	55	17	2	0	0	0	0	0	0	4	45	224
60	43	17	2	0	0	0	0	0	0	0	0	13	75
57	24	7	0	0	0	0	0	0	0	0	0	5	36
55	16	4	0	0	0	0	0	0	0	0	0	2	22
50	5	0	0	0	0	0	0	0	0	0	0	0	5
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	1083	996	1194	1249	1427	1483	1586	1602	1525	1462	1257	1140	16004
55	386	355	481	559	714	793	873	889	835	749	567	429	7630
57	332	303	419	499	652	733	811	827	775	687	507	370	6915
60	258	228	328	409	559	643	718	734	685	594	417	285	5858
65	155	127	188	261	404	493	563	579	535	439	271	162	4177
70	85	56	85	130	253	343	408	424	385	286	143	75	2673

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	857	822	968	1022	1189	1251	1348	1363	1288	1219	1031	909	857	1679	2647	3669	4858	6109	7457	8820	10108	11327	12358	13267
45	703	677	813	872	1034	1101	1193	1208	1138	1064	881	755	703	1380	2193	3065	4099	5200	6393	7601	8739	9803	10684	11439
50	550	532	658	722	879	951	1038	1053	988	909	731	601	550	1082	1740	2462	3341	4292	5330	6383	7371	8280	9011	9612
55	399	395	503	572	724	801	883	898	838	754	581	450	399	794	1297	1869	2593	3394	4277	5175	6013	6767	7348	7798
60	263	257	353	422	569	651	728	743	688	599	431	303	263	520	873	1295	1864	2515	3243	3986	4674	5273	5704	6007
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	567	546	655	701	822	875	939	956	919	876	725	611	567	1113	1768	2469	3291	4166	5105	6061	6980	7856	8581	9192

(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 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.

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. Snow Climatology
   2. 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
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