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: TITUSVILLE, FL **COOP ID: 088942**

Climate Division: FL 3 **NWS Call Sign:** **Elevation: 5 Feet** **Lat: 28˚38N** **Lon: 80˚50W**

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 >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	70.3	49.5	59.9	88+	1991	30	70.3	1974	19	1985	22	50.0	1981	229	61	.0	.0	30.5	.0	1.9	.0
Feb	72.0	51.0	61.5	92	1962	24	68.2	1975	23+	1995	9	54.3	1978	157	59	.0	.0	27.9	.0	.9	.0
Mar	76.9	56.1	66.5	94	1949	31	72.3	1997	26+	1980	4	61.8	1998	81	129	.0	.4	31.0	.0	.2	.0
Apr	81.0	60.2	70.6	97+	1968	23	74.7	1991	35+	1971	8	66.0	1987	12	180	.0	2.0	30.0	.0	.0	.0
May	86.0	66.5	76.3	102	1967	14	80.3	1990	45	1971	5	73.3	1981	0	349	@	7.5	31.0	.0	.0	.0
Jun	89.4	71.6	80.5	103	1985	5	84.2	1998	56+	1984	3	78.0	1988	0	466	.1	15.0	30.0	.0	.0	.0
Jul	91.4	73.4	82.4	103	1942	22	84.6	1992	61+	1951	9	80.5	1974	0	539	@	22.6	31.0	.0	.0	.0
Aug	90.9	73.5	82.2	101	1942	5	83.9	1989	60	1950	21	80.8	1996	0	533	.1	21.9	31.0	.0	.0	.0
Sep	88.6	72.5	80.6	99+	1944	5	83.1	1989	51	1956	27	78.3	1981	0	467	.0	13.2	30.0	.0	.0	.0
Oct	83.2	66.3	74.8	98	1971	6	79.1	1985	40+	1973	30	67.9	1987	4	307	.0	2.7	31.0	.0	.0	.0
Nov	77.6	58.9	68.3	93	1995	3	72.9	1986	27+	1950	26	63.2	1976	43	140	.0	.2	30.0	.0	.0	.0
Dec	72.2	52.5	62.4	88+	1991	4	69.2	1971	19	1989	24	57.1	1989	151	70	.0	.0	30.7	.0	1.1	.0
Ann	81.6	62.7	72.2	103+	Jun 1985	5	84.6	Jul 1992	19+	Dec 1989	24	50.0	Jan 1981	677	3300	.2	85.5	364.1	.0	4.1	.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: 1931-2001

(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	2.48	2.20	4.90	1996	2	7.09	1996	.14	1981
Feb	2.79	2.14	3.85	1966	28	10.26	1983	.16	1976
Mar	3.60	2.47	6.50	1996	31	17.60	1996	.43	1999
Apr	2.79	2.00	5.25	1982	9	9.67	1982	.14	1981
May	3.66	3.72	3.12	1952	11	7.45	1991	.38	2000
Jun	6.09	5.74	11.44	1945	24	13.00	1992	.82	1998
Jul	7.03	6.55	4.48	1933	5	12.15	1982	1.32	1992
Aug	7.27	7.97	6.04	1951	26	11.59	1983	1.43	2000
Sep	6.82	6.46	7.95	1963	23	19.05	1979	1.81	1986
Oct	4.29	4.11	7.10	1950	18	12.58	1991	.52	1984
Nov	3.45	2.90	7.32	1994	16	9.30	1994	.52	1991
Dec	2.52	2.09	3.70	1949	25	11.66	1997	.33	1984
Ann	52.79	50.46	11.44	Jun 1945	24	19.05	Sep 1979	.14+	Apr 1981

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.6	4.4	1.5	.6
Feb	7.4	4.5	1.8	.7
Mar	7.5	5.1	2.4	1.2
Apr	5.9	3.7	1.7	1.0
May	7.9	5.6	2.3	1.1
Jun	12.9	9.8	4.2	1.8
Jul	12.4	9.3	4.3	2.4
Aug	13.7	10.1	4.7	2.1
Sep	13.5	10.3	4.6	2.3
Oct	10.5	7.2	2.8	1.2
Nov	7.7	4.9	1.9	.9
Dec	8.2	5.0	1.6	.7
Ann	115.2	79.9	33.8	16.0

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	.32	.51	.86	1.21	1.57	1.98	2.45	3.03	3.81	5.10	6.35
Feb	.31	.52	.91	1.29	1.71	2.18	2.72	3.41	4.33	5.86	7.36
Mar	.41	.69	1.19	1.69	2.23	2.83	3.52	4.39	5.57	7.52	9.42
Apr	.21	.39	.75	1.13	1.56	2.05	2.64	3.39	4.43	6.18	7.91
May	.74	1.07	1.61	2.10	2.60	3.13	3.73	4.46	5.42	6.95	8.40
Jun	2.07	2.64	3.48	4.20	4.88	5.59	6.36	7.26	8.41	10.20	11.84
Jul	2.68	3.34	4.27	5.05	5.79	6.54	7.36	8.31	9.51	11.36	13.05
Aug	2.75	3.43	4.40	5.21	5.97	6.76	7.61	8.59	9.84	11.77	13.52
Sep	2.36	3.00	3.94	4.73	5.49	6.27	7.12	8.11	9.39	11.35	13.16
Oct	.99	1.39	2.02	2.58	3.14	3.74	4.40	5.20	6.25	7.91	9.48
Nov	.63	.94	1.44	1.91	2.39	2.91	3.49	4.20	5.15	6.67	8.11
Dec	.34	.55	.91	1.26	1.63	2.03	2.50	3.07	3.85	5.12	6.35
Ann	35.97	39.17	43.30	46.46	49.28	52.01	54.85	57.99	61.82	67.40	72.25

\+ 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: 1931-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	#	.0	0	0
Feb	.0	.0	0	0
Mar	.0	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.0	.0	0	0
Ann	#	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	#	1977	19	#	1977	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	#	Jan 1977	19	#	Jan 1977	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	3/13	3/04	2/25	2/19	2/14	2/08	2/02	1/26	1/14
32	3/04	2/20	2/11	2/03	1/26	1/17	1/03	0/00	0/00
28	2/21	2/07	1/27	1/15	12/30	0/00	0/00	0/00	0/00
24	1/21	1/06	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	12/02	12/09	12/15	12/20	12/25	12/29	1/03	1/10	1/19
32	12/11	12/20	12/27	1/02	1/09	1/16	1/27	0/00	0/00
28	12/28	1/12	1/24	2/06	2/23	0/00	0/00	0/00	0/00
24	1/10	1/26	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	334	323	315	309	303	297	290	280
32	>365	>365	>365	>365	>365	343	325	312	296
28	>365	>365	>365	>365	>365	>365	>365	350	320
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	229	157	81	12	0	0	0	0	0	4	43	151	677
60	163	84	29	1	0	0	0	0	0	0	11	74	362
57	120	50	14	0	0	0	0	0	0	0	3	42	229
55	93	34	8	0	0	0	0	0	0	0	1	28	164
50	45	12	1	0	0	0	0	0	0	0	0	9	67
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	865	826	1071	1158	1372	1456	1562	1556	1457	1325	1087	942	14677
55	245	216	366	468	659	766	849	843	767	612	399	257	6447
57	210	176	310	408	597	706	787	781	707	550	341	209	5782
60	160	126	232	319	504	616	694	688	617	457	258	148	4819
65	61	59	129	180	349	466	539	533	467	307	140	70	3300
70	44	21	56	75	202	316	384	378	317	171	60	23	2047

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	613	621	816	910	1115	1206	1296	1291	1203	1068	843	689	613	1234	2050	2960	4075	5281	6577	7868	9071	10139	10982	11671
45	464	477	661	760	960	1056	1141	1136	1053	913	693	537	464	941	1602	2362	3322	4378	5519	6655	7708	8621	9314	9851
50	324	341	507	610	805	906	986	981	903	758	543	393	324	665	1172	1782	2587	3493	4479	5460	6363	7121	7664	8057
55	206	218	361	460	650	756	831	826	753	603	396	257	206	424	785	1245	1895	2651	3482	4308	5061	5664	6060	6317
60	110	117	226	314	495	606	676	671	603	448	260	149	110	227	453	767	1262	1868	2544	3215	3818	4266	4526	4675
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	377	385	531	607	776	844	901	900	857	746	558	432	377	762	1293	1900	2676	3520	4421	5321	6178	6924	7482	7914

(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

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