Climatography
of the United States
No. 20
1971-2000

Station: TAVERNIER, FL

COOP ID: 088841

Climate Division: FL 7   **NWS Call Sign:**   **Elevation: 7 Feet**   **Lat: 25°00N**   **Lon: 80°31W**

	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	74.9	61.9	68.4	87	1957	30	73.9	1991	35	1981	13	59.7	1981	65	155	.0	.0	31.0	.0	.0	.0
Feb	75.7	62.4	69.1	87+	1997	16	74.1	1990	39	1996	5	62.3	1978	34	148	.0	.0	28.3	.0	.0	.0
Mar	78.1	65.5	71.8	90+	1982	25	74.9	2000	40	1980	3	67.7	1983	8	218	.0	.1	31.0	.0	.0	.0
Apr	81.7	69.6	75.7	94	1988	28	79.1	1991	51+	1987	5	71.4	1987	0	319	.0	.7	30.0	.0	.0	.0
May	85.2	73.6	79.4	94	1985	15	81.6	1998	62+	1992	8	77.0	1982	0	446	.0	4.2	31.0	.0	.0	.0
Jun	87.2	76.8	82.0	96+	1985	4	86.4	1998	65	1965	19	79.4+	1976	0	510	.0	12.5	30.0	.0	.0	.0
Jul	89.1	78.5	83.8	97+	1981	17	86.0	1998	69+	1976	9	80.8	1984	0	581	.0	21.1	31.0	.0	.0	.0
Aug	88.7	78.2	83.5	98	1957	14	85.9	1987	66	1953	30	81.6	1971	0	572	.0	19.0	31.0	.0	.0	.0
Sep	87.4	77.3	82.4	98	1963	3	85.0	1989	66	1981	27	80.3	1985	0	521	.0	12.9	30.0	.0	.0	.0
Oct	84.3	74.1	79.2	94+	1980	2	82.7	1998	57+	1989	21	77.2	1981	0	440	.0	3.2	31.0	.0	.0	.0
Nov	80.0	69.7	74.9	90	1980	4	78.8	1986	42	1970	25	71.6	1981	1	296	.0	@	30.0	.0	.0	.0
Dec	76.0	64.6	70.3	89	1988	1	74.8	1998	35+	1989	25	66.4	1989	20	185	.0	.0	31.0	.0	.0	.0
Ann	82.4	71.0	76.7	98+	Sep 1963	3	86.4	Jun 1998	35+	Dec 1989	25	59.7	Jan 1981	128	4391	.0	73.7	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/normals/usnormals.html

Issue Date: February 2004

(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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Climate Division: FL 7 **NWS Call Sign:** **Elevation: 7 Feet Lat: 25°00N Lon: 80°31W**

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	2.47	1.55	5.89	1983	23	15.35	1983	.00	1971	6.3	3.4	1.5	.7	.09	.28	.63	.99	1.38	1.82	2.36	3.02	3.95	5.49	7.01
Feb	1.93	1.38	5.48	1998	3	8.54	1998	.11	1995	5.5	3.0	1.1	.5	.13	.24	.48	.75	1.04	1.39	1.81	2.34	3.08	4.34	5.58
Mar	2.14	1.69	3.94	1948	20	8.02	1998	.14	1972	5.3	3.6	1.4	.7	.15	.28	.55	.85	1.18	1.56	2.01	2.59	3.40	4.76	6.11
Apr	1.99	1.41	6.54	1982	26	10.79	1982	.00	1987	4.9	2.7	1.3	.7	.03	.12	.35	.61	.93	1.31	1.78	2.39	3.26	4.76	6.28
May	3.73	3.87	5.84	1961	2	8.12	1972	.36	1998	7.2	4.9	2.6	1.1	.73	1.06	1.61	2.11	2.62	3.17	3.79	4.54	5.53	7.12	8.63
Jun	6.90	5.97	13.79	1982	2	18.03	1982	.59	1998	12.0	8.5	4.3	1.9	1.43	2.06	3.07	3.99	4.93	5.92	7.04	8.40	10.18	13.03	15.73
Jul	3.23	3.15	5.45	1953	14	9.98	1988	.49	1986	10.2	6.2	2.6	1.0	.89	1.19	1.66	2.06	2.46	2.88	3.34	3.89	4.60	5.72	6.76
Aug	5.20	4.87	4.13	1981	17	10.64	1981	.52	1972	12.8	8.2	3.4	1.4	1.93	2.42	3.12	3.70	4.25	4.82	5.44	6.15	7.06	8.46	9.74
Sep	6.72	6.11	6.40	1965	8	13.54	1998	1.98	1986	14.1	9.2	3.7	1.9	2.40	3.04	3.95	4.72	5.45	6.21	7.02	7.98	9.20	11.08	12.80
Oct	5.40	5.12	8.51	1962	30	14.81	1999	.71	1974	11.1	6.6	3.2	1.5	1.15	1.64	2.43	3.15	3.88	4.65	5.52	6.56	7.94	10.14	12.22
Nov	3.08	2.08	6.02	1954	14	9.27	1982	.06	1993	7.5	4.3	1.6	.8	.26	.46	.87	1.29	1.76	2.30	2.94	3.74	4.85	6.72	8.55
Dec	2.03	1.65	4.54	1986	24	6.95	1986	.16	1988	6.1	3.1	1.1	.6	.24	.40	.68	.97	1.27	1.60	1.99	2.48	3.14	4.22	5.28
Ann	44.82	45.99	13.79	Jun 1982	2	18.03	Jun 1982	.00+	Apr 1987	103.0	63.7	27.8	12.8	29.37	32.27	36.03	38.92	41.50	44.03	46.65	49.57	53.13	58.35	62.91

+ 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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Station: TAVERNIER, FL

Climate Division: FL 7   **NWS Call Sign:**

COOP ID: 088841

Elevation: 7 Feet   Lat: 25°00N   Lon: 80°31W

													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

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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	1/05	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	1/12	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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U.S. Department of Commerce

National Oceanic & Atmospheric Administration

National Environmental Satellite, Data,

and Information Service

National Climatic Data Center

Federal Building

151 Patton Avenue

Asheville, North Carolina 28801

www.ncdc.noaa.gov

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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	65	34	8	0	0	0	0	0	0	0	1	20	128
60	23	9	0	0	0	0	0	0	0	0	0	3	35
57	12	3	0	0	0	0	0	0	0	0	0	1	16
55	7	1	0	0	0	0	0	0	0	0	0	0	8
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

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1128	1038	1234	1309	1469	1500	1604	1595	1511	1463	1285	1188	16324
55	422	395	521	619	756	810	891	882	821	750	595	475	7937
57	365	341	459	559	694	750	829	820	761	688	535	414	7215
60	283	263	366	469	601	660	736	727	671	595	445	323	6139
65	155	148	218	319	446	510	581	572	521	440	296	185	4391
70	90	69	99	176	291	360	426	417	371	285	158	83	2825

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	934	901	1051	1114	1261	1292	1385	1375	1295	1246	1081	983	934	1835	2886	4000	5261	6553	7938	9313	10608	11854	12935	13918
45	779	756	896	964	1106	1142	1230	1220	1145	1091	931	828	779	1535	2431	3395	4501	5643	6873	8093	9238	10329	11260	12088
50	624	611	741	814	951	992	1075	1065	995	936	781	673	624	1235	1976	2790	3741	4733	5808	6873	7868	8804	9585	10258
55	474	466	586	664	796	842	920	910	845	781	631	519	474	940	1526	2190	2986	3828	4748	5658	6503	7284	7915	8434
60	326	323	432	514	641	692	765	755	695	626	481	367	326	649	1081	1595	2236	2928	3693	4448	5143	5769	6250	6617
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	632	612	740	812	930	948	1004	997	949	917	780	675	632	1244	1984	2796	3726	4674	5678	6675	7624	8541	9321	9996

(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
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 www1.ncdc.noaa.gov/pub/data/special/ serialcomplete_jam_0900.pdf