

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: TARPON SPRINGS SWG PLNT, FL

1971-2000

COOP ID: 088824

Climate Division: FL 4

NWS Call Sign:

Elevation: 8 Feet

Lat: 28°09N

Lon: 82°45W

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	71.6	50.2	60.9	87+	1985	2	70.0	1974	19	1981	13	50.0	1981	202	61	.0	.0	30.7	.0	1.6	.0
Feb	72.9	51.8	62.4	89+	1961	19	69.4	1990	23	1996	5	52.9	1978	147	71	.0	.0	28.0	@	.7	.0
Mar	77.2	56.4	66.8	92	1961	19	74.5	1997	31	1996	9	62.0	1971	74	130	.0	.0	31.0	.0	.1	.0
Apr	81.4	60.7	71.1	92+	2000	2	76.1	1991	37	1987	5	65.4	1987	12	193	.0	.7	30.0	.0	.0	.0
May	86.9	66.8	76.9	97	1995	27	82.1	1995	45	1992	9	73.5	1992	0	366	.0	8.2	31.0	.0	.0	.0
Jun	90.1	72.2	81.2	100+	1998	29	84.2	1998	51	1984	1	78.1	1974	0	484	.1	18.4	30.0	.0	.0	.0
Jul	91.3	73.6	82.5	102	1997	10	85.1	1993	63	2001	22	79.6	1974	0	541	@	24.5	31.0	.0	.0	.0
Aug	91.5	73.5	82.5	99+	1995	16	84.9	1995	64	1974	4	80.5	1974	0	542	.0	24.8	31.0	.0	.0	.0
Sep	90.1	71.9	81.0	97+	1997	22	83.2	1996	55	1981	20	78.7	1983	0	480	.0	19.6	30.0	.0	.0	.0
Oct	84.9	65.0	75.0	94	1960	18	79.6	1985	42	1989	22	70.2	1987	3	312	.0	4.4	31.0	.0	.0	.0
Nov	79.1	58.4	68.8	93	1963	24	76.0	1986	28	1970	25	63.1	1976	43	156	.0	.2	30.0	.0	.0	.0
Dec	73.6	52.2	62.9	88	2000	14	68.9	1971	19+	1962	14	56.4	1989	142	78	.0	.0	30.8	.0	1.0	.0
Ann	82.6	62.7	72.7	102	Jul 1997	10	85.1	Jul 1993	19+	Jan 1981	13	50.0	Jan 1981	623	3414	.1	100.8	364.5	@	3.4	.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/normal/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

075-A

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Precipitation (inches)

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	3.17	3.39	4.21	1986	10	7.96	1986	.07	1974	9.6	5.2	2.3	1.0	.59	.87	1.33	1.76	2.20	2.68	3.22	3.87	4.73	6.12	7.45
Feb	3.14	2.56	6.26	1971	8	10.91	1998	.32	1999	8.0	4.4	1.9	.8	.36	.60	1.03	1.47	1.94	2.46	3.07	3.83	4.86	6.57	8.22
Mar	3.85	3.05	6.20	1960	17	14.21	1987	.60	1990	8.4	4.9	2.7	1.4	.63	.96	1.52	2.05	2.60	3.19	3.87	4.70	5.80	7.60	9.31
Apr	1.96	1.50	4.15	1949	5	4.90	1997	.07+	1981	5.5	3.3	1.3	.5	.14	.27	.52	.79	1.09	1.43	1.85	2.38	3.11	4.35	5.57
May	3.02	2.08	11.09	1979	8	15.17	1979	.00	2000	6.0	3.5	1.7	.9	.09	.31	.73	1.16	1.64	2.19	2.86	3.69	4.85	6.80	8.73
Jun	5.78	4.27	6.32	1982	18	18.29	1974	.62	1991	10.8	7.7	3.4	1.7	.93	1.43	2.27	3.06	3.88	4.78	5.80	7.05	8.72	11.43	14.03
Jul	7.07	6.33	8.70	1960	29	12.96	1984	2.45	1976	15.2	10.3	5.0	2.1	2.83	3.48	4.40	5.16	5.88	6.61	7.40	8.32	9.48	11.25	12.86
Aug	8.47	7.87	5.52	1949	20	15.83	1971	4.45	1989	15.2	11.3	5.8	2.6	4.65	5.32	6.21	6.91	7.56	8.19	8.87	9.63	10.57	11.97	13.21
Sep	7.25	6.71	6.51	1997	27	18.13	1988	.58	1972	12.3	8.8	4.3	2.1	1.96	2.65	3.69	4.61	5.51	6.46	7.50	8.74	10.36	12.89	15.26
Oct	3.36	2.72	8.00	1992	3	14.13	1995	.04	2000	7.4	4.7	2.0	1.0	.13	.29	.66	1.10	1.61	2.23	3.00	4.01	5.44	7.91	10.41
Nov	2.37	1.74	6.50	1988	23	9.13	1988	.02	1978	7.6	4.0	1.6	.5	.22	.38	.70	1.03	1.39	1.79	2.28	2.88	3.71	5.10	6.46
Dec	2.98	2.09	3.85	1983	29	15.60	1997	.02	1984	7.6	3.9	1.9	.8	.12	.27	.60	.98	1.44	1.99	2.67	3.56	4.82	6.99	9.18
Ann	52.42	51.99	11.09	May 1979	8	18.29	Jun 1974	.00	May 2000	113.6	72.0	33.9	15.4	38.39	41.14	44.63	47.27	49.61	51.87	54.19	56.75	59.84	64.32	68.18

+ 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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Climate Division: FL 4

NWS Call Sign:

Elevation: 8 Feet

Lat: 28°09N

Lon: 82°45W

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

Complete documentation available from:

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NWS Call Sign:

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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	3/15	3/06	2/27	2/21	2/16	2/11	2/05	1/30	1/20
32	2/26	2/17	2/10	2/04	1/29	1/23	1/16	1/04	0/00
28	1/28	1/21	1/15	1/08	12/28	0/00	0/00	0/00	0/00
24	1/08	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	11/29	12/06	12/11	12/15	12/18	12/22	12/26	12/31	1/06
32	12/11	12/20	12/27	1/02	1/07	1/13	1/21	1/31	0/00
28	12/28	1/05	1/13	1/21	0/00	0/00	0/00	0/00	0/00
24	1/16	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	334	324	317	310	305	299	293	285	275
32	>365	>365	>365	>365	343	332	323	314	303
28	>365	>365	>365	>365	>365	>365	>365	>365	346
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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

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Climate Division: FL 4 NWS Call Sign: Elevation: 8 Feet Lat: 28°09N Lon: 82°45W

Degree Days to Selected Base Temperatures (°F)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	202	147	74	12	0	0	0	0	0	3	43	142	623
60	136	76	26	1	0	0	0	0	0	0	12	68	319
57	93	45	12	0	0	0	0	0	0	0	4	37	191
55	70	30	7	0	0	0	0	0	0	0	2	24	133
50	31	10	1	0	0	0	0	0	0	0	0	7	49
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	896	849	1078	1171	1389	1474	1564	1565	1470	1332	1103	959	14850
55	252	235	372	481	676	784	851	852	780	619	414	270	6586
57	214	193	315	421	614	724	789	790	720	557	357	221	5915
60	163	141	236	333	521	634	696	697	630	464	274	158	4947
65	61	71	130	193	366	484	541	542	480	312	156	78	3414
70	42	27	55	86	218	334	386	387	330	173	72	27	2137

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	655	658	847	944	1153	1245	1328	1329	1240	1095	870	716	655	1313	2160	3104	4257	5502	6830	8159	9399	10494	11364	12080
45	504	514	693	794	998	1095	1173	1174	1090	940	720	561	504	1018	1711	2505	3503	4598	5771	6945	8035	8975	9695	10256
50	363	376	538	644	843	945	1018	1019	940	785	571	413	363	739	1277	1921	2764	3709	4727	5746	6686	7471	8042	8455
55	233	246	386	495	688	795	863	864	790	630	423	280	233	479	865	1360	2048	2843	3706	4570	5360	5990	6413	6693
60	132	142	248	345	533	645	708	709	640	476	283	169	132	274	522	867	1400	2045	2753	3462	4102	4578	4861	5030
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	408	413	557	643	811	878	930	929	872	766	578	456	408	821	1378	2021	2832	3710	4640	5569	6441	7207	7785	8241

(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.
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.

- | | |
|---|---|
| <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