

Climatography of the United States

No. 20

1971-2000

Station: PLANT CITY, FL

COOP ID: 087205

Climate Division: FL 4

NWS Call Sign:

Elevation: 120 Feet

Lat: 28°01N

Lon: 82°08W

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	72.3	49.8	61.1	88	1943	17	71.0	1974	17	1981	13	50.5	1981	216	80	.0	.0	30.9	.0	2.4	.0
Feb	74.2	51.0	62.6	91	1962	25	68.5	1982	22	1943	15	55.5	1978	125	59	.0	.0	28.1	@	1.3	.0
Mar	78.5	55.2	66.9	94	1949	29	73.2	1997	24	1980	3	61.1	1983	73	130	.0	.6	31.0	.0	.3	.0
Apr	82.6	59.0	70.8	99	1968	22	74.8	1991	32	1944	6	65.3	1987	15	188	.0	2.9	30.0	.0	.0	.0
May	87.6	65.1	76.4	101+	1967	14	80.0	1995	43	1992	1	73.9+	1992	0	351	.0	12.0	31.0	.0	.0	.0
Jun	89.8	70.7	80.3	102+	1985	4	83.8	1998	49+	1984	1	77.6	1976	0	458	.3	20.3	30.0	.0	.0	.0
Jul	90.8	72.2	81.5	102+	1996	27	83.2	1992	59	2000	25	79.9	1974	0	511	.1	25.3	31.0	.0	.0	.0
Aug	90.5	72.5	81.5	99	1980	30	84.0	1980	61	1935	7	80.1	2000	0	513	.0	24.9	31.0	.0	.0	.0
Sep	89.2	71.3	80.3	98+	1980	26	82.1	1980	52	1938	21	78.1	1981	0	457	.0	19.7	30.0	.0	.0	.0
Oct	84.5	64.6	74.6	95+	1968	8	78.4	1985	38	1937	24	70.2	1987	4	299	.0	5.0	31.0	.0	.0	.0
Nov	78.7	57.5	68.1	92	1972	4	75.4	1986	21	1970	25	63.7	2000	48	142	.0	.2	30.0	.0	.1	.0
Dec	73.6	51.8	62.7	89	1981	29	70.0	1971	18	1962	13	55.7	1989	144	73	.0	.0	30.8	.0	1.5	.0
Ann	82.7	61.7	72.2	102+	Jul 1996	27	84.0	Aug 1980	17	Jan 1981	13	50.5	Jan 1981	625	3261	.4	110.9	364.8	@	5.6	.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: 1931-2001

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

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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: PLANT CITY, FL

COOP ID: 087205

Climate Division: FL 4

NWS Call Sign:

Elevation: 120 Feet

Lat: 28°01N

Lon: 82°08W

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	2.73	2.38	3.82	1964	12	6.33	1973	.32	1976	7.2	4.3	2.1	.7	.44	.68	1.07	1.45	1.84	2.26	2.74	3.33	4.12	5.39	6.62
Feb	3.05	2.42	4.46	1971	8	8.57	1983	.05	1989	6.9	3.9	1.7	.9	.23	.42	.82	1.24	1.70	2.24	2.88	3.70	4.83	6.74	8.62
Mar	3.39	2.32	4.91	1960	16	12.78	1987	.08	1999	6.8	4.5	2.4	1.1	.35	.60	1.06	1.53	2.04	2.61	3.29	4.13	5.28	7.20	9.06
Apr	2.20	2.43	3.89	1941	3	6.06	1997	.00	1981	5.7	3.6	1.8	.6	.14	.36	.71	1.03	1.37	1.74	2.18	2.71	3.44	4.62	5.77
May	3.58	2.89	5.55	1976	15	11.77	1991	.14	2000	6.8	5.2	2.1	1.0	.35	.61	1.09	1.59	2.13	2.74	3.47	4.37	5.60	7.65	9.66
Jun	7.35	6.34	8.20	1945	24	16.24	1986	.56	1979	13.8	9.7	4.9	2.2	1.90	2.59	3.66	4.60	5.52	6.50	7.59	8.87	10.55	13.21	15.69
Jul	7.51	7.54	8.56	1960	29	12.16	1990	2.96	1996	16.6	10.6	4.5	2.3	3.69	4.33	5.20	5.90	6.54	7.19	7.87	8.65	9.63	11.09	12.41
Aug	7.71	7.51	5.31	1953	3	13.95	1979	3.98	1996	16.9	12.1	5.4	2.2	3.96	4.60	5.46	6.15	6.78	7.42	8.09	8.84	9.79	11.21	12.48
Sep	6.62	6.05	7.70	1998	20	16.77	1998	.71	1972	12.8	9.0	4.4	1.9	1.44	2.05	3.02	3.90	4.78	5.72	6.78	8.04	9.71	12.38	14.89
Oct	2.36	2.19	4.96	1938	14	6.86	1975	.04	2000	6.9	4.0	1.3	.7	.16	.30	.60	.92	1.28	1.70	2.21	2.85	3.75	5.27	6.78
Nov	2.12	1.86	4.60	1988	23	7.34	1988	.14	1974	6.2	3.3	1.6	.6	.18	.32	.60	.89	1.22	1.58	2.03	2.58	3.35	4.63	5.89
Dec	2.55	1.67	3.56	1997	27	14.75	1997	.22	1984	6.4	3.9	1.6	.8	.21	.38	.71	1.06	1.45	1.90	2.43	3.10	4.03	5.59	7.13
Ann	51.17	51.23	8.56	Jul 1960	29	16.77	Sep 1998	.00	Apr 1981	113.0	74.1	33.8	15.0	37.80	40.43	43.77	46.29	48.52	50.67	52.88	55.31	58.25	62.50	66.16

+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: PLANT CITY, FL

COOP ID: 087205

Climate Division: FL 4

NWS Call Sign:

Elevation: 120 Feet

Lat: 28°01N

Lon: 82°08W

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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Climate Division: FL 4

NWS Call Sign:

Elevation: 120 Feet

Lat: 28°01N

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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	3/28	3/19	3/12	3/06	2/28	2/22	2/16	2/09	1/31
32	3/08	2/27	2/21	2/15	2/09	2/04	1/29	1/22	1/11
28	2/14	2/04	1/27	1/20	1/12	12/31	0/00	0/00	0/00
24	1/28	1/10	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	11/07	11/19	11/28	12/06	12/13	12/20	12/27	1/05	1/18
32	11/25	12/07	12/16	12/24	12/31	1/07	1/15	1/25	2/09
28	12/16	12/28	1/07	1/17	1/28	2/16	0/00	0/00	0/00
24	1/11	2/02	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	327	307	297	289	281	274	266	258	246
32	>365	349	332	323	315	308	301	294	283
28	>365	>365	>365	>365	>365	>365	345	331	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

Complete documentation available from:

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Climate Division: FL 4 NWS Call Sign: Elevation: 120 Feet Lat: 28°01N Lon: 82°08W

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	216	125	73	15	0	0	0	0	0	4	48	144	625
60	136	56	24	2	0	0	0	0	0	0	13	69	300
57	93	29	11	0	0	0	0	0	0	0	5	38	176
55	70	18	6	0	0	0	0	0	0	0	2	25	121
50	31	4	0	0	0	0	0	0	0	0	0	7	42
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	900	857	1081	1163	1374	1448	1534	1536	1447	1319	1084	952	14695
55	256	231	374	473	661	758	821	823	757	606	396	263	6419
57	218	187	317	413	599	698	759	761	697	544	339	215	5747
60	167	130	236	325	506	608	666	668	607	451	257	153	4774
65	80	59	130	188	351	458	511	513	457	299	142	73	3261
70	44	18	56	84	201	308	356	358	307	162	63	25	1982

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	666	669	856	940	1143	1229	1300	1303	1222	1089	859	714	666	1335	2191	3131	4274	5503	6803	8106	9328	10417	11276	11990
45	518	524	701	790	988	1079	1145	1148	1072	934	709	564	518	1042	1743	2533	3521	4600	5745	6893	7965	8899	9608	10172
50	373	387	548	640	833	929	990	993	922	779	559	417	373	760	1308	1948	2781	3710	4700	5693	6615	7394	7953	8370
55	246	257	396	491	678	779	835	838	772	624	414	285	246	503	899	1390	2068	2847	3682	4520	5292	5916	6330	6615
60	142	149	258	341	523	629	680	683	622	469	277	172	142	291	549	890	1413	2042	2722	3405	4027	4496	4773	4945
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	432	436	571	635	789	849	900	906	859	757	579	463	432	868	1439	2074	2863	3712	4612	5518	6377	7134	7713	8176

(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/normal/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 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