

Climatography of the United States

No. 20

1971-2000

Station: ARCADIA, FL

COOP ID: 080228

Climate Division: FL 4

NWS Call Sign:

Elevation: 30 Feet

Lat: 27° 13N

Lon: 81° 52W

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	73.2	47.9	60.6	88+	1990	20	69.9	1974	18+	1982	12	50.0	1981	207	56	.0	.0	30.9	.0	2.5	.0
Feb	74.6	48.8	61.7	92+	1975	21	68.7	1982	24	1971	15	54.6	1978	141	48	.0	.3	28.1	@	1.5	.0
Mar	78.7	52.8	65.8	94+	1977	21	72.4	1997	26+	1980	3	62.4	1971	80	104	.0	1.3	31.0	.0	.4	.0
Apr	83.2	56.8	70.0	98+	1975	30	74.1+	1999	32	1971	8	65.9	1987	20	170	.0	4.4	30.0	.0	@	.0
May	88.8	63.0	75.9	103	1938	26	79.5	1991	43+	1973	17	72.9	1988	0	338	@	15.9	31.0	.0	.0	.0
Jun	90.9	69.0	80.0	104	1985	5	83.6	1998	52+	1984	1	77.8+	1976	0	448	.2	22.0	30.0	.0	.0	.0
Jul	91.4	70.7	81.1	100+	1990	25	82.8	1981	61+	1981	1	79.5	1974	0	498	@	25.9	31.0	.0	.0	.0
Aug	91.2	70.9	81.1	100	1935	4	83.0	1990	60	1963	20	79.0	1971	0	498	.0	26.0	31.0	.0	.0	.0
Sep	89.4	70.1	79.8	98	1952	2	81.4	1974	56	1972	24	77.4	1971	0	443	.0	19.5	30.0	.0	.0	.0
Oct	85.0	64.1	74.6	98	1973	5	77.6	1985	39	1944	29	71.2	1977	2	297	.0	4.8	31.0	.0	.0	.0
Nov	79.0	56.5	67.8	93	1959	6	74.1	1986	23	1970	25	63.8	1981	41	124	.0	.3	30.0	.0	.1	.0
Dec	74.3	50.6	62.5	89+	1972	6	68.7	1971	18	1962	13	54.0	1989	150	71	.0	.0	30.9	.0	1.5	.0
Ann	83.3	60.1	71.7	104	Jun 1985	5	83.6	Jun 1998	18+	Jan 1982	12	50.0	Jan 1981	641	3095	.2	120.4	364.9	@	6.0	.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: 1931-2001

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

002-A

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: ARCADIA, FL

COOP ID: 080228

Climate Division: FL 4

NWS Call Sign:

Elevation: 30 Feet

Lat: 27°13N

Lon: 81°52W

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	2.13	1.58	4.00	1961	13	6.80	1988	.00+	1990	5.2	3.2	1.2	.7	.00	.16	.50	.83	1.19	1.59	2.06	2.64	3.45	4.79	6.11
Feb	2.43	1.59	4.30	1937	10	10.13	1983	.01	1999	5.6	3.5	1.6	.9	.19	.35	.67	1.00	1.37	1.80	2.31	2.95	3.84	5.33	6.80
Mar	3.10	2.36	4.00	1984	13	9.96	1987	.10	1990	5.4	4.2	2.1	1.1	.22	.41	.81	1.23	1.71	2.26	2.92	3.76	4.92	6.89	8.83
Apr	1.86	1.51	5.10	1963	7	8.34	1997	.00	1987	4.5	3.0	1.2	.7	.04	.14	.38	.63	.93	1.28	1.71	2.26	3.03	4.35	5.67
May	3.87	3.24	6.28	1987	10	15.72	1987	.40+	2000	6.8	4.9	2.6	1.3	.64	.97	1.54	2.07	2.62	3.21	3.90	4.73	5.84	7.64	9.36
Jun	7.81	5.61	7.51	1939	15	23.70	1982	3.80	1987	12.4	9.2	4.7	2.7	2.57	3.31	4.40	5.33	6.22	7.14	8.14	9.32	10.83	13.18	15.35
Jul	7.64	7.20	7.20	1945	19	14.99	1974	2.32	1972	14.2	10.4	5.3	2.5	3.17	3.87	4.85	5.66	6.42	7.18	8.01	8.96	10.17	12.01	13.68
Aug	7.02	6.62	5.64	1949	27	13.57	1981	2.37	1996	13.4	10.4	4.7	2.4	3.03	3.66	4.55	5.27	5.94	6.63	7.36	8.20	9.27	10.88	12.35
Sep	6.77	6.73	7.38	1962	21	13.74	1979	2.24	1980	11.3	8.6	4.8	2.2	2.78	3.40	4.28	4.99	5.67	6.35	7.09	7.94	9.02	10.67	12.17
Oct	2.87	2.47	7.38	1953	9	8.02	1986	.18	1974	5.8	4.0	2.0	.9	.36	.59	1.00	1.40	1.82	2.29	2.84	3.51	4.43	5.93	7.38
Nov	2.08	1.33	4.24	1947	12	6.69	1997	.00	1996	5.1	3.2	1.3	.5	.10	.28	.60	.90	1.23	1.59	2.02	2.56	3.29	4.50	5.68
Dec	1.76	.87	5.00	1962	23	6.27	1983	.16	2000	4.9	2.8	1.1	.6	.13	.24	.46	.70	.97	1.29	1.66	2.14	2.80	3.91	5.02
Ann	49.34	46.78	7.51	Jun 1939	15	23.70	Jun 1982	.00+	Nov 1996	94.6	67.4	32.6	16.5	32.97	36.07	40.07	43.14	45.89	48.55	51.32	54.40	58.16	63.64	68.41

+ 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

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Station: ARCADIA, FL

COOP ID: 080228

Climate Division: FL 4

NWS Call Sign:

Elevation: 30 Feet

Lat: 27° 13N

Lon: 81° 52W

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:

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

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NWS Call Sign:

Elevation: 30 Feet

Lat: 27° 13N

Lon: 81° 52W

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	3/23	3/14	3/08	3/02	2/25	2/20	2/15	2/08	1/31
32	3/10	2/27	2/19	2/12	2/05	1/28	1/20	1/07	0/00
28	2/19	2/06	1/28	1/18	1/07	12/19	0/00	0/00	0/00
24	1/24	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	11/05	11/18	11/28	12/06	12/13	12/21	12/29	1/07	1/20
32	12/04	12/14	12/21	12/27	1/03	1/09	1/17	1/29	0/00
28	12/16	12/27	1/04	1/13	1/22	2/08	0/00	0/00	0/00
24	12/29	1/15	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	333	312	301	292	284	277	269	260	247
32	>365	>365	354	335	325	317	309	300	289
28	>365	>365	>365	>365	>365	>365	>365	330	313
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: 30 Feet Lat: 27°13N Lon: 81°52W

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	207	141	80	20	0	0	0	0	0	2	41	150	641
60	131	68	25	3	0	0	0	0	0	0	9	73	309
57	88	36	11	0	0	0	0	0	0	0	3	41	179
55	64	23	6	0	0	0	0	0	0	0	1	27	121
50	27	6	0	0	0	0	0	0	0	0	0	8	41
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	885	831	1047	1140	1361	1438	1521	1521	1433	1318	1073	944	14512
55	236	210	339	450	648	748	808	808	743	605	384	258	6237
57	198	167	283	390	586	688	746	746	683	543	325	210	5565
60	148	115	204	303	493	598	653	653	593	450	242	149	4601
65	56	48	104	170	338	448	498	498	443	297	124	71	3095
70	33	14	37	73	189	298	343	343	293	156	45	24	1848

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	675	678	853	927	1133	1210	1290	1291	1209	1087	864	728	675	1353	2206	3133	4266	5476	6766	8057	9266	10353	11217	11945
45	522	534	698	777	978	1060	1135	1136	1059	932	714	576	522	1056	1754	2531	3509	4569	5704	6840	7899	8831	9545	10121
50	377	390	543	627	823	910	980	981	909	777	564	429	377	767	1310	1937	2760	3670	4650	5631	6540	7317	7881	8310
55	246	265	392	477	668	760	825	826	759	622	415	292	246	511	903	1380	2048	2808	3633	4459	5218	5840	6255	6547
60	141	153	249	329	513	610	670	671	609	467	274	171	141	294	543	872	1385	1995	2665	3336	3945	4412	4686	4857
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	437	440	562	619	765	831	890	896	849	759	579	473	437	877	1439	2058	2823	3654	4544	5440	6289	7048	7627	8100

(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 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