

Climatology of the United States No. 20

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

Station: PALATKA, FL

1971-2000

COOP ID: 086753

Climate Division: FL 2

NWS Call Sign:

Elevation: 70 Feet

Lat: 29° 39N

Lon: 81° 40W

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	67.9	44.3	56.1	90+	1982	6	69.2	1974	11	1985	21	47.1+	1981	323	31	.0	.1	29.7	.0	4.7	.0
Feb	70.5	46.4	58.5	90+	1962	28	64.4	1990	24+	1967	26	50.0	1978	216	32	.0	.0	27.8	.1	2.2	.0
Mar	75.7	51.4	63.6	94+	1954	25	69.6	1997	21	1980	3	58.8	1996	116	71	.0	.2	30.9	.0	.3	.0
Apr	81.1	57.0	69.1	96+	1962	11	73.3	1991	37	1950	8	64.4	1987	23	145	.0	2.1	30.0	.0	.0	.0
May	86.0	64.0	75.0	103+	1962	27	78.1	1975	47+	1971	5	71.8	1992	0	311	.0	7.3	31.0	.0	.0	.0
Jun	90.4	71.2	80.8	105+	1950	26	85.6	1998	53	1968	8	78.5	1997	0	473	.5	19.7	30.0	.0	.0	.0
Jul	91.7	72.7	82.2	103	1961	31	84.2	1998	64	1965	23	80.4	1974	0	533	.2	23.6	31.0	.0	.0	.0
Aug	91.4	72.7	82.1	102	1956	7	85.4	1980	64	1974	21	80.2	1992	0	529	.1	23.1	31.0	.0	.0	.0
Sep	88.5	70.4	79.5	100	1951	4	81.9	1977	53+	1981	20	77.9+	1984	0	433	.0	13.0	30.0	.0	.0	.0
Oct	82.6	61.8	72.2	95+	1959	2	76.2	1971	39	1957	28	66.8	1987	14	236	.0	1.6	31.0	.0	.0	.0
Nov	76.3	53.8	65.1	90	1948	6	71.7	1986	23	1970	25	58.8	1976	93	94	.0	.0	30.0	.0	.2	.0
Dec	69.7	47.0	58.4	85+	1971	16	66.9	1971	16	1962	13	51.2	1989	238	32	.0	.0	30.2	@	3.3	.0
Ann	81.0	59.4	70.2	105+	Jun 1950	26	85.6	Jun 1998	11	Jan 1985	21	47.1+	Jan 1981	1023	2920	.8	90.7	362.6	.1	10.7	.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

058-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: PALATKA, FL

COOP ID: 086753

Climate Division: FL 2

NWS Call Sign:

Elevation: 70 Feet

Lat: 29°39N

Lon: 81°40W

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	3.53	3.40	3.45	1999	24	8.41	1991	.29	1974	7.9	5.2	2.3	1.1	.80	1.12	1.64	2.11	2.57	3.07	3.62	4.29	5.16	6.55	7.86
Feb	3.46	3.47	5.60	1970	3	7.44	1998	.90	2000	8.3	4.8	1.8	.7	1.04	1.37	1.87	2.29	2.70	3.13	3.60	4.15	4.87	5.98	7.02
Mar	3.94	3.97	4.45	2000	31	7.22	1991	.94	1977	9.0	5.5	2.6	1.2	1.08	1.45	2.02	2.51	3.00	3.51	4.07	4.74	5.61	6.98	8.25
Apr	2.49	2.36	4.36	1953	7	6.80	1982	.05	1981	6.1	3.3	1.6	.8	.31	.51	.87	1.21	1.58	1.99	2.46	3.04	3.83	5.13	6.39
May	2.87	2.31	3.07	1978	4	7.97	1972	.66	1981	8.5	4.8	1.3	.6	.80	1.07	1.48	1.84	2.19	2.56	2.97	3.45	4.08	5.06	5.98
Jun	5.83	4.90	5.00	1972	19	11.94	1989	1.45	1977	7.5	4.9	1.7	.9	1.94	2.50	3.31	3.99	4.65	5.34	6.08	6.95	8.07	9.80	11.40
Jul	6.43	5.79	3.61	1951	18	12.97	1978	2.82	1979	15.8	11.6	4.4	1.8	2.95	3.52	4.30	4.93	5.52	6.12	6.75	7.47	8.38	9.76	11.00
Aug	7.21	6.95	4.45	1978	1	14.99	1985	1.99	1979	14.5	10.4	4.2	2.1	3.40	4.03	4.89	5.59	6.23	6.88	7.57	8.35	9.34	10.83	12.17
Sep	5.76	5.32	6.15	1962	21	10.53	1984	1.89	1981	14.9	9.9	3.7	1.6	2.37	2.89	3.64	4.25	4.82	5.41	6.03	6.76	7.68	9.08	10.35
Oct	2.97	2.84	8.56	1951	1	7.60	1985	.10	1974	10.3	5.4	1.8	.8	.49	.75	1.18	1.59	2.01	2.47	2.99	3.63	4.48	5.86	7.19
Nov	3.02	2.71	3.01	1972	6	7.25	1972	.37	1974	8.8	4.7	1.4	.7	.63	.90	1.34	1.75	2.15	2.59	3.08	3.67	4.45	5.70	6.88
Dec	2.91	2.63	3.03	1967	11	7.34	1977	.10	1984	8.8	4.3	1.7	.8	.48	.74	1.16	1.56	1.97	2.42	2.93	3.55	4.38	5.73	7.02
Ann	50.42	50.06	8.56	Oct 1951	1	14.99	Aug 1985	.05	Apr 1981	120.4	74.8	28.5	13.1	38.97	41.26	44.16	46.33	48.24	50.07	51.95	54.01	56.49	60.05	63.10

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: PALATKA, FL

COOP ID: 086753

Climate Division: FL 2

NWS Call Sign:

Elevation: 70 Feet

Lat: 29°39N

Lon: 81°40W

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

Climatography of the United States

No. 20 1971-2000

Station: PALATKA, FL

COOP ID: 086753

Climate Division: FL 2

NWS Call Sign:

Elevation: 70 Feet

Lat: 29°39N

Lon: 81°40W

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	3/24	3/16	3/10	3/05	3/01	2/24	2/19	2/13	2/05
32	3/09	2/28	2/22	2/16	2/11	2/06	2/01	1/26	1/17
28	2/26	2/16	2/09	2/03	1/28	1/21	1/11	0/00	0/00
24	2/01	1/21	1/10	12/28	0/00	0/00	0/00	0/00	0/00
20	1/07	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	11/08	11/16	11/22	11/26	12/01	12/05	12/10	12/16	12/24
32	11/19	11/29	12/06	12/12	12/18	12/23	12/29	1/05	1/15
28	12/08	12/20	12/30	1/07	1/16	1/25	2/07	0/00	0/00
24	12/23	1/04	1/15	1/29	0/00	0/00	0/00	0/00	0/00
20	1/14	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	303	293	286	280	274	269	263	256	246
32	>365	329	318	310	303	297	290	282	272
28	>365	>365	>365	>365	359	339	328	317	304
24	>365	>365	>365	>365	>365	>365	>365	>365	344
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

**Climatology
of the United States**
No. 20
1971-2000

Station: PALATKA, FL

COOP ID: 086753

Climate Division: FL 2 NWS Call Sign: Elevation: 70 Feet Lat: 29°39N Lon: 81°40W

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	323	216	116	23	0	0	0	0	0	14	93	238	1023
60	223	127	47	3	0	0	0	0	0	3	34	138	575
57	173	85	23	1	0	0	0	0	0	0	16	92	390
55	142	62	13	0	0	0	0	0	0	0	9	66	292
50	76	23	2	0	0	0	0	0	0	0	1	25	127
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	747	740	978	1112	1334	1463	1556	1552	1423	1245	991	817	13958
55	176	158	278	422	621	773	843	839	733	532	310	171	5856
57	145	125	226	363	559	713	781	777	673	471	257	134	5224
60	102	83	157	276	466	623	688	684	583	380	186	88	4316
65	31	32	71	145	311	473	533	529	433	236	94	32	2920
70	22	11	21	54	164	323	378	374	283	119	34	10	1793

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	497	563	765	877	1094	1219	1302	1300	1182	988	743	566	497	1060	1825	2702	3796	5015	6317	7617	8799	9787	10530	11096
45	351	424	610	727	939	1069	1147	1145	1032	833	593	418	351	775	1385	2112	3051	4120	5267	6412	7444	8277	8870	9288
50	231	288	458	577	784	919	992	990	882	678	446	284	231	519	977	1554	2338	3257	4249	5239	6121	6799	7245	7529
55	134	178	315	427	629	769	837	835	732	523	307	173	134	312	627	1054	1683	2452	3289	4124	4856	5379	5686	5859
60	63	88	186	284	474	619	682	680	582	375	184	87	63	151	337	621	1095	1714	2396	3076	3658	4033	4217	4304
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	309	356	494	578	756	844	900	901	831	679	484	353	309	665	1159	1737	2493	3337	4237	5138	5969	6648	7132	7485

(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