

# 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: FEDERAL POINT, FL

1971-2000

COOP ID: 082915

Climate Division: FL 2

NWS Call Sign:

Elevation: 5 Feet

Lat: 29°45N

Lon: 81°32W

## 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	66.8	48.0	57.4	95	1995	5	70.4	1974	11	1985	21	49.4	1981	290	38	.0	.0	29.8	.0	2.6	.0
Feb	69.5	48.8	59.2	90	1962	24	65.4	1990	23+	1996	7	51.7	1978	190	28	.0	.0	27.7	@	1.4	.0
Mar	75.5	53.6	64.6	93	1945	16	70.4	1997	24	1980	3	59.2	1996	105	92	.0	.1	30.9	.0	.3	.0
Apr	81.2	57.7	69.5	95+	1989	28	72.9	1991	36+	1975	7	65.8+	1987	14	146	.0	1.9	30.0	.0	.0	.0
May	86.9	64.3	75.6	103	1962	26	79.9	1998	42	1940	5	73.2	1992	0	327	.0	9.1	31.0	.0	.0	.0
Jun	90.4	70.5	80.5	103+	1998	29	85.2	1998	55	1948	4	78.1	1976	0	463	.5	17.1	30.0	.0	.0	.0
Jul	92.2	72.6	82.4	104+	1998	11	86.8	1998	62+	1988	8	79.1	1974	0	539	.7	24.1	31.0	.0	.0	.0
Aug	90.8	72.7	81.8	103	1954	17	83.8	1993	62	1931	25	79.8	1994	0	519	.3	20.6	31.0	.0	.0	.0
Sep	87.9	71.3	79.6	100	1993	9	82.2	1977	55+	1981	20	77.6	1984	0	437	@	11.7	30.0	.0	.0	.0
Oct	81.2	64.5	72.9	98	1941	9	77.6	1985	40+	1989	20	67.7	1987	10	253	.0	.9	31.0	.0	.0	.0
Nov	74.2	57.0	65.6	90+	1946	11	71.7	1985	25	1950	25	59.5	1976	86	104	.0	.0	30.0	.0	.1	.0
Dec	67.7	50.3	59.0	85+	1978	8	68.1	1971	16+	1989	24	50.9	1989	231	45	.0	.0	30.3	@	1.7	.0
Ann	80.4	60.9	70.7	104+	Jul 1998	11	86.8	Jul 1998	11	Jan 1985	21	49.4	Jan 1981	926	2991	1.5	85.5	362.7	.0	6.1	.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](http://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

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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	3.09	3.03	2.95	1948	24	8.67	1994	.32	1974	9.5	5.3	2.0	.9	.50	.76	1.21	1.64	2.08	2.56	3.11	3.78	4.67	6.12	7.51
Feb	2.89	2.81	4.98	1970	3	8.01	1987	.54	1996	8.2	4.6	2.1	.5	.60	.86	1.28	1.67	2.06	2.48	2.95	3.51	4.26	5.46	6.59
Mar	3.68	3.34	4.44	1960	17	8.22	1987	.24	1995	8.3	5.3	2.4	1.2	.56	.88	1.41	1.92	2.44	3.02	3.68	4.49	5.58	7.34	9.03
Apr	2.34	1.84	3.76	1972	30	7.06	1991	.00	1998	5.8	3.0	1.5	.7	.08	.25	.58	.92	1.29	1.72	2.22	2.86	3.75	5.24	6.70
May	3.55	3.00	5.22	1976	13	13.62	1976	.43	1981	7.8	4.6	2.1	.9	.56	.86	1.37	1.86	2.37	2.92	3.56	4.33	5.37	7.06	8.67
Jun	6.67	6.25	6.32	1982	18	14.81	1974	.23	1998	13.6	8.6	3.8	1.8	1.59	2.21	3.19	4.05	4.92	5.83	6.86	8.07	9.67	12.21	14.59
Jul	6.16	5.72	6.08	1937	28	14.37	1991	2.84	1996	14.1	8.7	3.6	1.3	2.68	3.24	4.01	4.64	5.23	5.82	6.46	7.19	8.12	9.52	10.80
Aug	6.57	5.92	5.68	1982	14	14.17	1982	1.55	1979	15.9	10.0	3.8	1.9	1.93	2.56	3.49	4.30	5.09	5.91	6.82	7.88	9.27	11.43	13.43
Sep	6.83	6.84	5.03	1965	29	17.76	1979	1.13	1990	14.2	8.6	3.6	2.0	1.40	2.02	3.02	3.94	4.86	5.85	6.96	8.31	10.08	12.92	15.61
Oct	3.34	3.22	6.31	1951	1	11.09	1993	.50	1974	10.2	4.8	1.9	.7	.44	.71	1.19	1.65	2.14	2.68	3.31	4.08	5.12	6.82	8.47
Nov	2.70	2.60	3.58	1964	1	7.18	1972	.12	1978	9.2	4.3	1.6	.7	.38	.60	.99	1.36	1.76	2.19	2.69	3.30	4.13	5.47	6.77
Dec	2.72	1.98	3.25	1976	15	9.29	1976	.22	1984	9.4	4.1	1.4	.8	.20	.37	.72	1.09	1.51	1.99	2.57	3.30	4.32	6.04	7.74
Ann	50.54	50.30	6.32	Jun 1982	18	17.76	Sep 1979	.00	Apr 1998	126.2	71.9	29.8	13.4	34.41	37.48	41.44	44.46	47.16	49.78	52.50	55.51	59.18	64.53	69.17

+ 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:

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**Climate Division: FL 2**

**NWS Call Sign:**

**Elevation: 5 Feet**

**Lat: 29°45N**

**Lon: 81°32W**

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	#	1973	10	#	1973	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	N/A	N/A	#	Feb 1973	10	#	Feb 1973	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](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

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**NWS Call Sign:**

**Elevation: 5 Feet**

**Lat: 29° 45N**

**Lon: 81° 32W**

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	3/22	3/11	3/04	2/25	2/19	2/13	2/06	1/30	1/19
32	3/06	2/25	2/18	2/13	2/08	2/02	1/27	1/20	1/09
28	2/23	2/11	2/02	1/25	1/16	1/04	0/00	0/00	0/00
24	1/31	1/17	1/01	0/00	0/00	0/00	0/00	0/00	0/00
20	12/27	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	11/17	11/25	12/02	12/07	12/12	12/17	12/22	12/29	1/06
32	11/30	12/10	12/18	12/25	12/31	1/07	1/14	1/22	2/04
28	12/16	12/30	1/10	1/20	1/31	2/14	0/00	0/00	0/00
24	12/27	1/13	2/01	0/00	0/00	0/00	0/00	0/00	0/00
20	1/15	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	338	321	310	301	293	285	276	266	252
32	>365	360	340	329	321	313	305	295	283
28	>365	>365	>365	>365	>365	>365	353	330	312
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](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

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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	290	190	105	14	0	0	0	0	0	10	86	231	926
60	196	103	41	2	0	0	0	0	0	1	32	138	513
57	147	63	20	0	0	0	0	0	0	0	15	93	338
55	118	42	12	0	0	0	0	0	0	0	9	67	248
50	58	13	2	0	0	0	0	0	0	0	1	26	100
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	787	761	1010	1123	1350	1453	1562	1542	1427	1266	1008	837	14126
55	192	159	308	433	637	763	849	829	737	553	327	191	5978
57	159	124	255	373	575	703	787	767	677	491	273	155	5339
60	114	80	183	284	482	613	694	674	587	400	200	107	4418
65	38	28	92	146	327	463	539	519	437	253	104	45	2991
70	25	8	32	48	178	313	384	364	287	130	41	16	1826

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	528	558	762	890	1105	1212	1309	1284	1173	1002	754	584	528	1086	1848	2738	3843	5055	6364	7648	8821	9823	10577	11161
45	384	419	609	740	950	1062	1154	1129	1023	847	605	435	384	803	1412	2152	3102	4164	5318	6447	7470	8317	8922	9357
50	253	284	456	590	795	912	999	974	873	692	457	294	253	537	993	1583	2378	3290	4289	5263	6136	6828	7285	7579
55	144	170	307	440	640	762	844	819	723	537	316	180	144	314	621	1061	1701	2463	3307	4126	4849	5386	5702	5882
60	65	80	180	292	485	612	689	664	573	384	189	88	65	145	325	617	1102	1714	2403	3067	3640	4024	4213	4301
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	304	333	482	592	764	842	900	899	832	688	479	341	304	637	1119	1711	2475	3317	4217	5116	5948	6636	7115	7456

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)