

# Climatology of the United States

No. 20

1971-2000

Station: AVON PARK 2 W, FL

COOP ID: 080369

Climate Division: FL 4

NWS Call Sign:

Elevation: 154 Feet

Lat: 27° 36N

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	72.8	48.4	60.6	90	1965	26	73.3	1974	18	1981	14	50.2	1981	215	62	.0	.0	30.7	.0	2.5	.0
Feb	74.6	50.1	62.4	94+	1962	24	68.6	1990	23	1958	4	55.1	1978	137	62	.0	.2	28.1	@	1.2	.0
Mar	78.7	54.6	66.7	94+	1961	29	71.7	1997	23	1980	3	61.9	1981	68	119	.0	.7	31.0	.0	.2	.0
Apr	83.0	58.7	70.9	98+	1968	28	74.7	1991	34	1971	8	65.0	1987	15	192	.0	4.0	30.0	.0	.0	.0
May	87.8	64.9	76.4	102	1945	31	80.4	1990	44	1992	8	73.0	1992	0	352	.0	13.3	31.0	.0	.0	.0
Jun	90.0	70.0	80.0	103	1950	25	83.8	1998	50	1983	25	77.4	1974	0	451	.1	20.7	30.0	.0	.0	.0
Jul	90.9	71.5	81.2	103	1961	31	83.2	1998	60	1944	10	79.4	1974	0	501	.1	25.4	31.0	.0	.0	.0
Aug	90.4	71.7	81.1	102	1941	10	83.2	1998	59	1999	19	79.9	1971	0	499	.0	25.1	31.0	.0	.0	.0
Sep	88.7	70.7	79.7	101+	1942	21	81.2	1989	58	1991	27	78.0	1984	0	442	.0	19.5	30.0	.0	.0	.0
Oct	84.0	64.1	74.1	98+	1959	2	78.6	1985	40	1943	29	69.3	1987	5	287	.0	4.7	31.0	.0	.0	.0
Nov	78.8	57.7	68.3	92+	1972	12	74.5	1986	29	1970	25	64.1	1976	40	137	.0	.3	30.0	.0	.0	.0
Dec	74.0	51.2	62.6	90+	1961	13	69.3	1971	20+	1989	24	56.0	1989	147	73	.0	.0	30.6	.0	1.3	.0
Ann	82.8	61.1	72.0	103+	Jul 1961	31	83.8	Jun 1998	18	Jan 1981	14	50.2	Jan 1981	627	3177	.2	113.9	364.4	@	5.2	.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

004-A

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## No. 20 1971-2000

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

**Station: AVON PARK 2 W, FL**

**COOP ID: 080369**

**Climate Division: FL 4**

**NWS Call Sign:**

**Elevation: 154 Feet**

**Lat: 27°36N**

**Lon: 81°32W**

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	2.48	2.33	3.65	1998	24	6.53	1979	.17	1990	6.0	4.1	1.4	.8	.24	.42	.76	1.11	1.48	1.91	2.41	3.03	3.88	5.30	6.69
Feb	2.41	1.85	4.36	1966	23	9.66	1983	.27	2000	5.8	3.9	1.6	.7	.24	.42	.75	1.09	1.45	1.86	2.34	2.94	3.77	5.13	6.47
Mar	3.02	2.45	5.51	1965	2	10.21	1998	.21	1974	6.0	4.1	2.0	1.0	.50	.76	1.20	1.61	2.04	2.50	3.03	3.68	4.55	5.95	7.29
Apr	2.17	1.94	4.66	1951	7	5.75	1997	.13	1978	5.3	3.3	1.7	.6	.13	.26	.52	.82	1.15	1.54	2.02	2.63	3.48	4.93	6.37
May	3.63	3.12	4.97	1940	30	8.74	1984	.30	2000	8.1	5.7	2.3	1.2	.73	1.06	1.59	2.08	2.57	3.10	3.70	4.42	5.37	6.89	8.33
Jun	8.25	7.98	6.90	1982	18	20.14	1974	.81	1998	13.7	10.5	5.6	2.9	2.27	3.05	4.24	5.28	6.29	7.36	8.54	9.94	11.75	14.61	17.27
Jul	6.81	6.81	3.74	1960	29	13.36	1978	1.60	1996	14.5	10.0	4.5	2.2	2.90	3.51	4.38	5.08	5.75	6.42	7.14	7.97	9.02	10.62	12.07
Aug	7.18	6.98	9.04	1949	27	15.03	1990	2.73	1987	15.6	11.3	4.9	2.3	3.16	3.80	4.70	5.43	6.11	6.79	7.53	8.37	9.43	11.05	12.51
Sep	5.98	5.57	6.25	1948	22	13.37	1979	.36	1972	12.5	8.9	4.1	1.8	1.76	2.33	3.18	3.92	4.64	5.38	6.21	7.18	8.44	10.40	12.23
Oct	3.02	2.56	5.02	1975	29	7.93	1995	.36	1974	7.8	4.8	1.9	.8	.43	.68	1.11	1.53	1.97	2.45	3.01	3.69	4.61	6.11	7.56
Nov	2.27	1.66	9.03	1997	14	11.54	1997	.23	1974	5.7	3.5	1.1	.6	.14	.28	.56	.87	1.22	1.62	2.12	2.74	3.62	5.10	6.58
Dec	1.87	1.36	3.37	1997	13	8.22	1997	.28	1975	5.5	3.1	1.1	.6	.19	.33	.59	.85	1.13	1.45	1.82	2.28	2.91	3.96	4.98
Ann	49.09	47.62	9.04	Aug 1949	27	20.14	Jun 1974	.13	Apr 1978	106.5	73.2	32.2	15.5	34.75	37.52	41.07	43.77	46.17	48.49	50.88	53.53	56.74	61.40	65.44

+ 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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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	#	1977	19	#	1977	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	N/A	N/A	#	Jan 1977	19	#	Jan 1977	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

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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	3/27	3/15	3/07	2/28	2/22	2/15	2/08	1/30	1/16
32	3/04	2/22	2/15	2/09	2/03	1/28	1/21	1/11	0/00
28	2/15	2/02	1/21	1/08	0/00	0/00	0/00	0/00	0/00
24	1/28	1/11	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	11/19	11/29	12/06	12/12	12/18	12/24	12/30	1/07	1/19
32	12/07	12/17	12/25	12/31	1/07	1/13	1/21	1/31	0/00
28	12/22	1/03	1/13	1/23	2/10	0/00	0/00	0/00	0/00
24	1/01	1/21	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	353	329	317	307	298	289	280	269	255
32	>365	>365	>365	345	331	321	313	303	291
28	>365	>365	>365	>365	>365	>365	>365	340	321
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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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	215	137	68	15	0	0	0	0	0	5	40	147	627
60	154	67	21	2	0	0	0	0	0	0	9	72	325
57	111	37	9	0	0	0	0	0	0	0	3	41	201
55	85	24	4	0	0	0	0	0	0	0	1	27	141
50	41	7	0	0	0	0	0	0	0	0	0	8	56
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	888	849	1074	1166	1375	1441	1524	1522	1432	1304	1087	949	14611
55	260	229	365	476	662	751	811	809	742	591	398	262	6356
57	223	186	308	416	600	691	749	747	682	529	340	214	5685
60	173	132	226	328	507	601	656	654	592	436	257	152	4714
65	62	62	119	192	352	451	501	499	442	287	137	73	3177
70	50	20	47	88	203	301	346	344	292	154	57	25	1927

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	656	667	852	945	1147	1222	1298	1299	1218	1080	868	717	656	1323	2175	3120	4267	5489	6787	8086	9304	10384	11252	11969
45	505	524	699	795	992	1072	1143	1144	1068	925	718	564	505	1029	1728	2523	3515	4587	5730	6874	7942	8867	9585	10149
50	362	385	545	645	837	922	988	989	918	770	570	417	362	747	1292	1937	2774	3696	4684	5673	6591	7361	7931	8348
55	235	260	394	495	682	772	833	834	768	615	422	282	235	495	889	1384	2066	2838	3671	4505	5273	5888	6310	6592
60	134	152	254	347	527	622	678	679	618	462	282	168	134	286	540	887	1414	2036	2714	3393	4011	4473	4755	4923
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	424	431	561	631	786	846	898	900	857	755	580	461	424	855	1416	2047	2833	3679	4577	5477	6334	7089	7669	8130

(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:  
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## 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)