U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: CROSS CITY 2 WNW, FL **COOP ID: 082008**

Climate Division: FL 2 **NWS Call Sign:** **Elevation: 42 Feet** **Lat: 29˚39N** **Lon: 83˚10W**

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	65.7	40.1	52.9	86+	1950	28	65.8	1974	10+	1985	22	43.5	1977	405	16	.0	.0	29.2	@	9.4	.0
Feb	68.6	43.0	55.8	87+	1962	25	63.4	1990	16+	1996	7	47.9	1978	275	17	.0	.0	27.1	.1	5.5	.0
Mar	74.8	48.6	61.7	96	1949	25	68.0	1997	20+	1980	4	55.4	1971	157	55	.0	@	30.7	.0	1.5	.0
Apr	80.0	52.8	66.4	95+	1962	30	71.0	1991	30	1950	16	62.3	1987	51	94	.0	.4	30.0	.0	.1	.0
May	86.5	60.2	73.4	101+	1962	28	78.0	1991	38	1971	4	69.5	1973	3	263	@	5.6	31.0	.0	.0	.0
Jun	90.2	67.3	78.8	103	1950	26	82.4	1981	50	1984	1	75.6	1976	0	412	.2	17.1	30.0	.0	.0	.0
Jul	90.9	70.4	80.7	101+	1998	7	82.8	1998	57	1982	3	78.5	1974	0	485	.1	20.3	31.0	.0	.0	.0
Aug	90.3	70.7	80.5	100+	1999	3	82.7	1999	55+	1982	11	78.7	1992	0	481	@	19.3	31.0	.0	.0	.0
Sep	88.4	67.9	78.2	100	1951	8	80.2	1986	40	1967	30	75.7	1976	0	395	.0	12.7	30.0	.0	.0	.0
Oct	82.2	57.2	69.7	96	1985	15	76.0	1985	30+	1968	26	64.0	1987	38	184	.0	1.4	31.0	.0	@	.0
Nov	74.9	49.1	62.0	90+	1964	17	70.1	1985	15	1970	25	54.3	1976	163	73	.0	.0	29.9	.0	2.3	.0
Dec	67.9	42.4	55.2	85+	1982	4	64.0	1971	12	1962	13	46.4	1989	329	24	.0	.0	29.8	@	7.3	.0
Ann	80.0	55.8	67.9	103	Jun 1950	26	82.8	Jul 1998	10+	Jan 1985	22	43.5	Jan 1977	1421	2499	.3	76.8	360.7	.1	26.1	.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

(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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	4.41	4.24	3.40	1988	21	9.04	1987	.72	1974
Feb	3.54	3.43	4.60	1998	23	12.79	1998	1.20	1991
Mar	4.42	3.34	9.44	1991	3	15.45	1991	.82	1979
Apr	3.48	2.52	5.74	1997	27	10.90	1997	.20	1972
May	3.06	2.43	10.00	1978	4	11.96	1978	.29	2000
Jun	6.34	5.65	7.56	1995	26	10.87	1995	1.28	1977
Jul	8.92	8.52	6.54	1950	9	20.55	1980	.30	1972
Aug	9.67	9.78	7.64	1974	16	31.95	1985	1.00	1972
Sep	6.10	4.52	6.33	1964	12	19.43	1988	1.88	1972
Oct	2.93	2.30	5.40	1996	8	8.24	1992	.07	1987
Nov	2.35	2.34	3.06	1958	5	5.72	1972	.11	1991
Dec	3.27	2.43	5.05	1969	10	8.62	1986	.47	2000
Ann	58.49	57.45	10.00	May 1978	4	31.95	Aug 1985	.07	Oct 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.5	6.2	3.1	1.4
Feb	7.2	5.2	2.2	1.2
Mar	7.2	5.2	2.8	1.5
Apr	6.0	4.0	1.9	1.1
May	6.5	4.5	2.2	.8
Jun	11.5	8.7	4.1	2.0
Jul	15.1	11.3	5.2	2.8
Aug	16.1	12.5	5.8	3.0
Sep	11.2	8.2	3.6	1.7
Oct	5.4	3.6	1.6	.8
Nov	5.6	3.4	1.4	.7
Dec	7.2	4.7	2.3	1.0
Ann	107.5	77.5	36.2	18.0

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.18	1.60	2.23	2.79	3.34	3.92	4.56	5.31	6.30	7.85	9.30
Feb	.86	1.20	1.71	2.17	2.62	3.10	3.64	4.28	5.11	6.44	7.68
Mar	.83	1.23	1.87	2.47	3.08	3.74	4.48	5.38	6.57	8.49	10.32
Apr	.23	.44	.87	1.35	1.88	2.50	3.25	4.21	5.55	7.81	10.05
May	.53	.80	1.25	1.67	2.10	2.56	3.09	3.73	4.59	5.97	7.29
Jun	2.36	2.95	3.80	4.51	5.19	5.88	6.63	7.50	8.60	10.31	11.87
Jul	2.22	3.06	4.36	5.51	6.65	7.85	9.19	10.79	12.87	16.17	19.26
Aug	2.10	2.99	4.41	5.70	6.98	8.35	9.90	11.75	14.18	18.06	21.73
Sep	1.16	1.71	2.60	3.43	4.26	5.17	6.19	7.43	9.07	11.70	14.21
Oct	.16	.33	.68	1.08	1.53	2.06	2.70	3.53	4.70	6.68	8.66
Nov	.26	.44	.76	1.09	1.44	1.83	2.29	2.87	3.64	4.93	6.18
Dec	.63	.93	1.41	1.85	2.30	2.78	3.33	3.99	4.86	6.27	7.60
Ann	39.44	43.04	47.71	51.28	54.46	57.56	60.77	64.34	68.69	75.03	80.54

\+ 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

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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

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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	4/15	4/08	4/03	3/30	3/26	3/22	3/18	3/13	3/06
32	3/29	3/21	3/15	3/09	3/04	2/27	2/22	2/16	2/07
28	3/09	3/01	2/24	2/19	2/14	2/10	2/05	1/30	1/22
24	2/20	2/12	2/06	1/31	1/26	1/19	1/10	0/00	0/00
20	2/14	2/01	1/22	1/11	12/28	0/00	0/00	0/00	0/00
16	1/14	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	10/19	10/27	11/02	11/07	11/12	11/17	11/22	11/28	12/07
32	11/01	11/08	11/13	11/18	11/22	11/27	12/01	12/07	12/14
28	11/12	11/24	12/03	12/11	12/18	12/25	1/01	1/10	1/22
24	12/01	12/12	12/21	12/28	1/05	1/14	1/27	0/00	0/00
20	12/20	1/02	1/13	1/24	2/08	0/00	0/00	0/00	0/00
16	1/16	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	261	250	243	236	230	224	218	211	200
32	295	284	276	269	262	256	249	241	230
28	>365	330	318	309	302	294	287	278	266
24	>365	>365	>365	>365	348	332	321	311	297
20	>365	>365	>365	>365	>365	>365	>365	357	324
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

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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	405	275	157	51	3	0	0	0	0	38	163	329	1421
60	288	168	76	11	0	0	0	0	0	11	86	213	853
57	229	120	42	4	0	0	0	0	0	5	52	158	610
55	195	92	26	1	0	0	0	0	0	2	35	126	477
50	119	39	7	0	0	0	0	0	0	0	12	60	237
32	6	0	0	0	0	0	0	0	0	0	0	0	6

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	654	667	921	1033	1283	1402	1508	1504	1385	1169	900	718	13144
55	130	115	234	344	570	712	795	791	695	458	245	131	5220
57	102	87	187	287	508	652	733	729	635	398	202	101	4621
60	67	51	129	204	415	562	640	636	545	312	146	63	3770
65	16	17	55	94	263	412	485	481	395	184	73	24	2499
70	14	5	16	27	131	263	330	326	246	86	27	9	1480

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	421	463	669	787	1030	1164	1263	1253	1146	917	657	479	421	884	1553	2340	3370	4534	5797	7050	8196	9113	9770	10249
45	287	328	515	637	875	1014	1108	1098	996	762	509	344	287	615	1130	1767	2642	3656	4764	5862	6858	7620	8129	8473
50	180	211	372	488	720	864	953	943	846	607	368	222	180	391	763	1251	1971	2835	3788	4731	5577	6184	6552	6774
55	99	121	239	343	565	714	798	788	696	453	245	131	99	220	459	802	1367	2081	2879	3667	4363	4816	5061	5192
60	45	55	131	209	411	564	643	633	546	309	139	64	45	100	231	440	851	1415	2058	2691	3237	3546	3685	3749
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	276	300	432	517	701	806	880	875	803	617	433	315	276	576	1008	1525	2226	3032	3912	4787	5590	6207	6640	6955

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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