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: STEINHATCHEE 6 ENE, FL **COOP ID: 088565**

Climate Division: FL 2 **NWS Call Sign:** **Elevation: 35 Feet** **Lat: 29˚43N** **Lon: 83˚18W**

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	65.0	40.1	52.6	84+	1991	2	66.2	1974	9	1985	21	43.4	1981	406	5	.0	.0	29.5	.0	9.0	.0
Feb	67.4	42.9	55.2	86	1965	10	62.3	1990	17+	1996	5	48.1	1978	288	11	.0	.0	27.3	.1	5.5	.0
Mar	73.8	49.4	61.6	90+	1989	21	67.3	1997	19	1980	3	56.5	1971	158	53	.0	.1	30.9	.0	1.5	.0
Apr	79.2	53.7	66.5	94	1968	21	72.2	1991	29	1971	8	62.8	1993	49	93	.0	.9	30.0	.0	.1	.0
May	85.9	60.9	73.4	104	1989	27	79.6	1991	36	1971	4	69.3	1988	5	265	.1	8.3	31.0	.0	.0	.0
Jun	89.9	67.9	78.9	104	1981	17	82.2	1981	45	1984	1	76.4	1995	0	417	.5	20.4	30.0	.0	.0	.0
Jul	90.8	71.1	81.0	106	1988	30	82.9	1999	59	1981	1	77.9	1975	0	495	.3	24.2	31.0	.0	.0	.0
Aug	90.1	70.9	80.5	101	1999	1	82.0	1993	60	1966	29	78.9	1976	0	480	.2	23.5	31.0	.0	.0	.0
Sep	88.0	68.1	78.1	99	1970	4	80.7	1977	39	1967	30	75.3	1987	0	390	.0	16.5	30.0	.0	.0	.0
Oct	81.2	58.0	69.6	98	1959	8	76.0	1985	30	1968	29	63.7	1976	33	176	.0	1.6	31.0	.0	@	.0
Nov	74.0	49.3	61.7	90+	1990	29	69.1	1985	12	1970	25	55.3	1976	164	63	.0	.1	29.9	.0	2.3	.0
Dec	66.8	42.3	54.6	85+	1982	5	66.6	1971	10	1989	24	45.3	1989	349	26	.0	.0	29.8	@	7.8	.0
Ann	79.3	56.2	67.8	106	Jul 1988	30	82.9	Jul 1999	9	Jan 1985	21	43.4	Jan 1981	1452	2474	1.1	95.6	361.4	.1	26.2	.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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1958-2001

(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	4.80	4.64	3.65	1999	24	9.42	1998	.58	1974
Feb	3.61	3.43	4.55	1998	23	9.39	1998	.85	1989
Mar	4.61	3.48	11.30	1991	3	18.52	1991	.85	1979
Apr	3.37	2.08	5.10	1982	9	9.52	1979	.23	2000
May	3.03	2.30	12.50	1978	4	14.76	1978	.37	2000
Jun	6.73	6.74	5.12	1982	18	19.57	1982	1.67	1998
Jul	9.30	9.62	6.50	1980	26	18.62	1980	.87	1972
Aug	9.41	9.10	4.77	1985	31	19.59	1977	1.59	1984
Sep	5.69	4.33	6.00	1964	12	16.98	1988	.95	1972
Oct	3.51	2.69	5.92	1992	4	9.07	1994	.07	1979
Nov	2.46	2.46	4.30	1985	1	5.73	1983	.08	1991
Dec	3.09	2.37	5.27	1983	29	9.37	1983	.44	1987
Ann	59.61	57.72	12.50	May 1978	4	19.59	Aug 1977	.07	Oct 1979

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.0	6.2	3.5	1.5
Feb	6.7	5.4	2.5	1.2
Mar	6.9	5.4	2.9	1.5
Apr	5.3	3.8	1.9	1.0
May	5.8	4.4	1.6	.7
Jun	10.4	8.0	4.3	2.2
Jul	14.0	11.3	5.9	3.2
Aug	14.8	12.2	6.0	2.8
Sep	10.6	8.0	3.2	1.5
Oct	4.9	3.7	1.9	1.1
Nov	6.0	4.1	1.8	.7
Dec	6.9	4.8	2.0	.8
Ann	100.3	77.3	37.5	18.2

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	1.09	1.53	2.24	2.87	3.50	4.17	4.92	5.82	7.00	8.88	10.65
Feb	1.02	1.37	1.89	2.34	2.78	3.24	3.75	4.35	5.12	6.35	7.48
Mar	.82	1.23	1.91	2.53	3.18	3.87	4.66	5.62	6.89	8.95	10.91
Apr	.23	.44	.87	1.33	1.85	2.44	3.17	4.08	5.36	7.51	9.65
May	.34	.57	.99	1.41	1.87	2.37	2.96	3.70	4.70	6.35	7.96
Jun	2.21	2.85	3.79	4.59	5.35	6.15	7.02	8.03	9.34	11.37	13.24
Jul	2.47	3.35	4.70	5.88	7.04	8.26	9.62	11.22	13.32	16.60	19.68
Aug	3.13	4.02	5.33	6.44	7.51	8.61	9.81	11.22	13.03	15.84	18.42
Sep	.87	1.36	2.18	2.97	3.78	4.67	5.69	6.94	8.62	11.35	13.96
Oct	.16	.33	.73	1.19	1.73	2.38	3.18	4.21	5.67	8.19	10.72
Nov	.31	.51	.86	1.20	1.56	1.96	2.43	3.00	3.78	5.06	6.29
Dec	.43	.69	1.13	1.56	2.01	2.50	3.08	3.78	4.72	6.26	7.75
Ann	41.13	44.66	49.21	52.68	55.78	58.77	61.88	65.32	69.50	75.59	80.87

\+ 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: 1958-2001
(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	#	1977	19	#	1977	#	1999	24	#	1999	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1977	16	#+	1977	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1993	13	#	1993	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	#+	Mar 1993	13	#+	Mar 1993	#	Jan 1999	24	#	Jan 1999	.0	.0	.0	.0	.0	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/19	4/11	4/04	3/30	3/25	3/20	3/14	3/08	2/27
32	3/27	3/18	3/12	3/07	3/02	2/26	2/20	2/15	2/06
28	3/15	3/05	2/26	2/20	2/15	2/09	2/03	1/27	1/18
24	2/23	2/14	2/07	2/01	1/26	1/19	1/11	12/27	0/00
20	2/15	2/03	1/23	1/12	12/25	0/00	0/00	0/00	0/00
16	1/09	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	10/23	10/31	11/05	11/09	11/14	11/18	11/22	11/28	12/05
32	10/30	11/07	11/13	11/18	11/23	11/27	12/02	12/08	12/16
28	11/15	11/24	12/01	12/07	12/12	12/17	12/22	12/29	1/07
24	11/30	12/08	12/15	12/21	12/26	1/01	1/09	1/23	0/00
20	12/18	1/02	1/14	1/28	2/19	0/00	0/00	0/00	0/00
16	1/08	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	269	256	248	240	233	226	219	210	198
32	296	285	277	271	265	258	252	244	233
28	335	323	314	306	299	292	284	276	263
24	>365	>365	>365	348	335	325	317	308	297
20	>365	>365	>365	>365	>365	>365	>365	>365	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	406	288	158	49	5	0	0	0	0	33	164	349	1452
60	294	174	76	10	0	0	0	0	0	8	85	232	879
57	234	122	41	3	0	0	0	0	0	3	51	177	631
55	200	93	26	1	0	0	0	0	0	1	35	144	500
50	122	38	7	0	0	0	0	0	0	0	11	75	253
32	7	0	0	0	0	0	0	0	0	0	0	0	7

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	644	648	918	1034	1283	1407	1518	1503	1380	1166	889	700	13090
55	123	97	231	345	570	717	805	790	690	454	233	131	5186
57	96	70	184	287	508	657	743	728	630	394	190	101	4588
60	63	38	125	204	415	567	650	635	540	306	134	64	3741
65	5	11	53	93	265	417	495	480	390	176	63	26	2474
70	4	1	15	26	136	268	340	325	242	78	21	10	1466

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	419	467	698	816	1055	1183	1291	1284	1160	938	668	472	419	886	1584	2400	3455	4638	5929	7213	8373	9311	9979	10451
45	285	329	543	666	900	1033	1136	1129	1010	783	520	332	285	614	1157	1823	2723	3756	4892	6021	7031	7814	8334	8666
50	177	211	396	516	745	883	981	974	860	629	376	216	177	388	784	1300	2045	2928	3909	4883	5743	6372	6748	6964
55	94	115	258	372	590	733	826	819	710	474	252	124	94	209	467	839	1429	2162	2988	3807	4517	4991	5243	5367
60	43	54	144	234	435	583	671	664	560	325	146	58	43	97	241	475	910	1493	2164	2828	3388	3713	3859	3917
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	277	299	455	540	713	809	885	890	803	634	443	308	277	576	1031	1571	2284	3093	3978	4868	5671	6305	6748	7056

(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.
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