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: LAKE CITY 2 E, FL **COOP ID: 084731**

Climate Division: FL 2 **NWS Call Sign:** **Elevation: 195 Feet** **Lat: 30˚11N** **Lon: 82˚36W**

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	64.4	43.3	53.9	85+	1947	15	67.1	1974	7	1985	21	44.3	1977	375	16	.0	.0	28.8	.1	7.4	.0
Feb	67.5	45.7	56.6	88+	1971	27	63.8	1990	16	1996	5	47.7	1978	256	20	.0	.0	26.8	.1	4.3	.0
Mar	73.9	51.5	62.7	91+	1945	17	68.7	1997	19	1980	3	56.7	1996	138	66	.0	.0	30.7	.0	1.0	.0
Apr	79.2	56.4	67.8	96+	1985	30	72.4	1999	33	1950	16	62.8	1983	38	121	.0	1.1	30.0	.0	.0	.0
May	85.7	63.6	74.7	101+	1953	27	78.6	1991	41	1971	5	71.6	1988	1	299	.0	7.3	31.0	.0	.0	.0
Jun	89.9	69.7	79.8	105	1954	10	84.4	1998	49	1984	1	77.3	1976	0	444	.4	17.6	30.0	.0	.0	.0
Jul	91.4	71.9	81.7	102+	1981	17	83.5	1986	57	1985	6	79.6	1984	0	517	.2	23.0	31.0	.0	.0	.0
Aug	90.8	71.5	81.2	104	1983	28	83.0	1983	59	1957	25	79.6	1994	0	500	.2	22.2	31.0	.0	.0	.0
Sep	87.7	68.9	78.3	101	1933	14	80.4	1977	44	1967	30	76.1	1981	0	398	.0	12.5	30.0	.0	.0	.0
Oct	80.7	59.6	70.2	96+	1958	1	75.7	1985	33+	1957	28	64.9	1987	30	190	.0	1.2	31.0	.0	.0	.0
Nov	73.6	52.4	63.0	88+	1961	3	70.8	1985	18	1970	25	56.3	1976	137	78	.0	.0	29.9	.0	1.4	.0
Dec	66.4	45.4	55.9	91	1983	6	63.6	1971	9	1983	26	47.8	1989	306	23	.0	@	29.1	@	5.2	.0
Ann	79.3	58.3	68.8	105	Jun 1954	10	84.4	Jun 1998	7	Jan 1985	21	44.3	Jan 1977	1281	2672	.8	84.9	359.3	.2	19.3	.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: 1931-2001

(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	4.52	4.48	4.57	1963	12	10.55	1991	.90	1981
Feb	3.61	3.36	3.87	1940	18	9.87	1998	.85	1989
Mar	4.90	3.98	4.40	1933	21	15.69	1980	.86	1999
Apr	3.15	2.40	4.00	1979	5	8.10	1979	.41	1986
May	3.71	2.95	5.00	1978	4	9.88	1975	.42	2000
Jun	6.91	6.68	5.11	1965	17	10.65	1972	2.59	1984
Jul	6.74	6.48	4.00	1944	5	12.72	1973	2.38	1977
Aug	7.19	7.00	4.05	1987	13	16.08	1988	1.17	1993
Sep	4.67	4.74	7.01	1963	29	11.22	1998	.26	1972
Oct	2.82	2.23	5.52	1947	24	9.51	1994	.16	2000
Nov	2.42	2.51	5.67	1947	11	4.98	1972	.18	1998
Dec	2.96	2.68	5.85	1964	27	9.22	1983	.40	1984
Ann	53.60	53.71	7.01	Sep 1963	29	16.08	Aug 1988	.16	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	6.5	3.2	1.5
Feb	8.1	5.2	2.6	1.0
Mar	8.9	6.2	3.2	1.6
Apr	6.2	4.1	2.2	1.1
May	8.2	5.6	2.3	1.1
Jun	12.6	9.0	4.9	2.1
Jul	14.8	10.1	4.6	2.0
Aug	15.1	10.8	4.5	2.1
Sep	10.4	6.9	3.0	1.4
Oct	6.2	3.8	1.7	.9
Nov	7.0	3.6	1.7	.6
Dec	9.0	5.0	1.8	.8
Ann	117.0	76.8	35.7	16.2

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	1.17	1.59	2.25	2.83	3.40	4.00	4.66	5.46	6.49	8.12	9.64
Feb	1.01	1.36	1.88	2.33	2.77	3.23	3.74	4.34	5.12	6.35	7.50
Mar	1.28	1.74	2.45	3.08	3.69	4.34	5.06	5.91	7.02	8.78	10.41
Apr	.46	.73	1.18	1.62	2.07	2.57	3.15	3.85	4.79	6.33	7.82
May	.64	.97	1.51	2.02	2.54	3.10	3.75	4.53	5.57	7.25	8.85
Jun	3.09	3.70	4.56	5.25	5.90	6.55	7.25	8.05	9.05	10.58	11.96
Jul	2.68	3.30	4.18	4.91	5.60	6.30	7.06	7.93	9.04	10.74	12.28
Aug	2.61	3.28	4.26	5.07	5.85	6.65	7.51	8.52	9.81	11.79	13.61
Sep	1.01	1.44	2.13	2.75	3.37	4.03	4.78	5.67	6.85	8.74	10.51
Oct	.19	.36	.71	1.10	1.53	2.04	2.64	3.42	4.50	6.33	8.15
Nov	.34	.54	.89	1.23	1.58	1.97	2.41	2.96	3.70	4.91	6.07
Dec	.42	.67	1.09	1.50	1.93	2.40	2.95	3.61	4.51	5.98	7.39
Ann	40.51	43.11	46.40	48.87	51.05	53.15	55.31	57.68	60.53	64.65	68.18

\+ 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

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	#	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	4/10	4/02	3/28	3/23	3/18	3/14	3/09	3/04	2/24
32	3/21	3/13	3/08	3/03	2/26	2/21	2/16	2/11	2/03
28	3/06	2/26	2/20	2/15	2/10	2/05	1/31	1/25	1/15
24	2/21	2/12	2/06	1/31	1/25	1/19	1/12	12/29	0/00
20	1/31	1/17	1/01	0/00	0/00	0/00	0/00	0/00	0/00
16	1/12	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	10/24	11/01	11/07	11/12	11/16	11/21	11/26	12/01	12/09
32	11/06	11/13	11/19	11/23	11/27	12/01	12/06	12/11	12/18
28	11/18	11/29	12/06	12/13	12/19	12/26	1/02	1/10	1/23
24	12/14	12/23	12/30	1/05	1/10	1/17	1/25	2/09	0/00
20	12/26	1/10	1/27	0/00	0/00	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	278	266	257	249	242	235	227	219	206
32	304	294	286	279	273	267	261	253	243
28	>365	330	319	312	306	300	294	287	278
24	>365	>365	>365	>365	>365	341	330	320	309
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

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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	375	256	138	38	1	0	0	0	0	30	137	306	1281
60	271	154	62	8	0	0	0	0	0	8	65	191	759
57	216	108	32	2	0	0	0	0	0	3	36	138	535
55	183	81	20	1	0	0	0	0	0	1	23	107	416
50	109	32	5	0	0	0	0	0	0	0	6	48	200
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	683	688	950	1074	1321	1434	1540	1523	1388	1184	931	740	13456
55	148	124	257	384	608	744	827	810	698	472	264	135	5471
57	119	95	208	326	546	684	765	748	638	411	217	104	4861
60	81	58	145	241	453	594	672	655	548	323	156	63	3989
65	16	20	66	121	299	444	517	500	398	190	78	23	2672
70	15	6	20	42	158	294	362	345	249	89	29	8	1617

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	434	480	692	821	1059	1188	1289	1271	1146	928	680	489	434	914	1606	2427	3486	4674	5963	7234	8380	9308	9988	10477
45	302	347	541	671	904	1038	1134	1116	996	773	532	350	302	649	1190	1861	2765	3803	4937	6053	7049	7822	8354	8704
50	195	230	394	521	749	888	979	961	846	618	393	233	195	425	819	1340	2089	2977	3956	4917	5763	6381	6774	7007
55	108	131	262	373	594	738	824	806	696	464	263	140	108	239	501	874	1468	2206	3030	3836	4532	4996	5259	5399
60	50	64	150	239	439	588	669	651	546	317	155	71	50	114	264	503	942	1530	2199	2850	3396	3713	3868	3939
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	266	297	444	537	722	819	892	881	802	622	441	300	266	563	1007	1544	2266	3085	3977	4858	5660	6282	6723	7023

(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