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: MOUNTAIN LAKE, FL **COOP ID: 085973**

Climate Division: FL 4 **NWS Call Sign:** **Elevation: 125 Feet** **Lat: 27˚56N** **Lon: 81˚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	72.4	49.3	60.9	89	1990	20	70.4	1974	16	1985	22	51.4	1981	204	62	.0	.0	30.9	.0	2.5	.0
Feb	74.5	50.4	62.5	91	1989	21	69.2	1982	24	1989	25	55.4	1978	130	57	.0	.1	28.1	@	1.5	.0
Mar	78.8	54.8	66.8	95+	1976	29	72.1	1997	25	1980	3	62.2	1983	66	122	.0	2.4	31.0	.0	.3	.0
Apr	82.9	58.3	70.6	97	1968	23	75.0	1991	34	1987	5	66.2	1987	15	183	.0	6.4	30.0	.0	.0	.0
May	87.7	64.2	76.0	100	1953	27	79.1	1995	44	1992	8	72.8	1992	0	341	.0	16.4	31.0	.0	.0	.0
Jun	90.2	69.7	80.0	101+	1985	3	84.7	1998	50	1984	1	77.8	1984	0	449	.3	22.5	30.0	.0	.0	.0
Jul	91.0	71.3	81.2	105	1988	11	83.6	1998	53	1988	5	79.4	1984	0	500	.1	27.2	31.0	.0	.0	.0
Aug	90.6	71.6	81.1	100+	1987	10	82.7	1998	62	1986	1	79.7	1982	0	499	.1	26.8	31.0	.0	.0	.0
Sep	88.6	70.4	79.5	98	1980	26	80.9	1974	57	1981	19	76.8	1984	0	435	.0	19.9	30.0	.0	.0	.0
Oct	83.6	63.7	73.7	96	1986	6	77.2	1985	40+	1989	21	69.0	1987	6	274	.0	5.4	31.0	.0	.0	.0
Nov	77.9	57.2	67.6	91	1987	8	75.5	1986	24	1970	25	63.6+	1984	52	128	.0	.4	30.0	.0	.1	.0
Dec	73.1	51.2	62.2	89	1978	4	68.7	1971	16	2000	20	54.9	1989	151	62	.0	.0	30.9	.0	1.7	.0
Ann	82.6	61.0	71.8	105	Jul 1988	11	84.7	Jun 1998	16+	Dec 2000	20	51.4	Jan 1981	624	3112	.5	127.5	364.9	@	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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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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	2.38	2.18	3.51	1996	1	7.15	1973	.13	1971
Feb	2.43	1.92	4.83	1963	12	9.39	1983	.04	1989
Mar	3.12	2.46	4.26	1960	16	9.05	1987	.56	1974
Apr	2.02	1.69	2.83	1973	4	5.21	1997	.00	1981
May	3.88	3.07	4.47	1978	4	11.99	1979	.02	2000
Jun	7.12	6.47	4.65	1982	18	12.60	1996	.20	1998
Jul	7.45	7.03	4.12	1973	5	14.76	1973	3.18	1999
Aug	6.64	6.39	6.55	1949	27	12.02	1975	3.78+	1983
Sep	5.83	5.02	6.23	1948	22	15.80	1979	1.27	1991
Oct	2.50	2.10	3.60	1952	20	5.63	1975	.04	1979
Nov	2.23	1.86	4.48	1963	10	8.98	1987	.14	1986
Dec	2.10	1.48	3.80	1986	24	7.80	1983	.10	1987
Ann	47.70	45.64	6.55	Aug 1949	27	15.80	Sep 1979	.00	Apr 1981

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.6	4.2	1.6	.7
Feb	6.8	4.2	1.3	.6
Mar	6.7	4.4	2.2	1.2
Apr	5.7	3.4	1.5	.5
May	7.9	5.7	2.5	1.2
Jun	14.0	10.2	5.0	2.4
Jul	16.1	11.6	4.7	2.2
Aug	15.5	10.1	4.3	2.1
Sep	12.6	8.4	3.6	1.6
Oct	8.0	4.7	1.5	.7
Nov	6.0	3.7	1.4	.8
Dec	6.4	3.4	1.4	.6
Ann	112.3	74.0	31.0	14.6

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	.18	.34	.65	.98	1.34	1.76	2.26	2.89	3.76	5.23	6.69
Feb	.20	.37	.69	1.02	1.39	1.82	2.32	2.96	3.83	5.30	6.75
Mar	.49	.76	1.21	1.64	2.09	2.57	3.13	3.81	4.71	6.19	7.60
Apr	.17	.39	.72	1.01	1.32	1.65	2.03	2.50	3.13	4.14	5.12
May	.40	.69	1.22	1.76	2.35	3.00	3.77	4.74	6.05	8.23	10.37
Jun	1.88	2.56	3.59	4.49	5.39	6.32	7.36	8.59	10.19	12.72	15.08
Jul	3.60	4.24	5.12	5.82	6.47	7.12	7.82	8.61	9.60	11.09	12.43
Aug	3.42	3.97	4.71	5.30	5.85	6.39	6.96	7.61	8.42	9.64	10.72
Sep	1.54	2.09	2.94	3.68	4.41	5.17	6.02	7.03	8.34	10.41	12.34
Oct	.18	.33	.65	.99	1.38	1.82	2.35	3.03	3.97	5.56	7.14
Nov	.21	.37	.68	.99	1.32	1.70	2.15	2.71	3.48	4.77	6.02
Dec	.16	.30	.57	.86	1.18	1.55	2.00	2.56	3.33	4.63	5.92
Ann	33.32	36.08	39.63	42.34	44.74	47.07	49.48	52.15	55.39	60.10	64.18

\+ 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: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	#	.0	0	0
Feb	.0	.0	0	0
Mar	.0	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.0	.0	0	0
Ann	#	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	#	1977	19	#	1977	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	#	Jan 1977	19	#	Jan 1977	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.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	3/23	3/13	3/07	3/01	2/23	2/18	2/11	2/04	1/24
32	3/10	2/28	2/21	2/14	2/09	2/03	1/27	1/20	1/08
28	2/21	2/09	1/31	1/22	1/12	12/29	0/00	0/00	0/00
24	1/26	1/10	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	1/11	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	11/16	11/26	12/04	12/10	12/16	12/22	12/28	1/05	1/17
32	12/02	12/13	12/22	12/29	1/04	1/11	1/18	1/27	2/10
28	12/11	12/25	1/04	1/14	1/25	2/10	0/00	0/00	0/00
24	12/29	1/17	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	1/04	1/23	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	>365	321	309	300	292	284	276	267	255
32	>365	>365	344	330	320	312	304	295	284
28	>365	>365	>365	>365	>365	>365	338	323	309
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

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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	204	130	66	15	0	0	0	0	0	6	52	151	624
60	134	60	20	2	0	0	0	0	0	0	14	72	302
57	91	31	8	0	0	0	0	0	0	0	5	39	174
55	68	20	4	0	0	0	0	0	0	0	2	25	119
50	29	5	0	0	0	0	0	0	0	0	0	7	41
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	894	851	1079	1158	1364	1439	1523	1522	1425	1291	1066	935	14547
55	248	227	369	468	651	749	810	809	735	578	378	247	6269
57	210	183	312	408	589	689	748	747	675	516	321	199	5597
60	159	127	230	320	496	599	655	654	585	424	240	139	4628
65	62	57	122	183	341	449	500	499	435	274	128	62	3112
70	39	17	49	81	191	299	345	344	285	144	52	19	1865

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	675	682	869	953	1152	1232	1305	1309	1221	1079	861	720	675	1357	2226	3179	4331	5563	6868	8177	9398	10477	11338	12058
45	520	539	714	803	997	1082	1150	1154	1071	924	711	567	520	1059	1773	2576	3573	4655	5805	6959	8030	8954	9665	10232
50	379	399	559	653	842	932	995	999	921	769	561	421	379	778	1337	1990	2832	3764	4759	5758	6679	7448	8009	8430
55	250	266	407	504	687	782	840	844	771	614	414	286	250	516	923	1427	2114	2896	3736	4580	5351	5965	6379	6665
60	144	156	266	354	532	632	685	689	621	460	276	169	144	300	566	920	1452	2084	2769	3458	4079	4539	4815	4984
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	444	448	575	637	777	840	893	899	856	753	579	469	444	892	1467	2104	2881	3721	4614	5513	6369	7122	7701	8170

(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