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: MADISON, FL **COOP ID: 085275**

Climate Division: FL 2 **NWS Call Sign:** **Elevation: 120 Feet** **Lat: 30˚27N** **Lon: 83˚25W**

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	38.6	51.5	88	1950	5	64.0	1974	5	1985	21	42.4	1977	446	11	.0	.0	29.1	@	7.4	.0
Feb	68.1	41.5	54.8	87	1957	10	60.4	1990	16+	1996	6	45.4	1978	296	11	.0	.0	27.2	@	4.7	.0
Mar	74.3	47.5	60.9	91+	1982	17	67.1	1997	19	1980	3	55.3	1971	173	46	.0	.1	30.8	.0	1.0	.0
Apr	79.6	53.5	66.6	96+	1958	26	71.1	1991	33	1940	13	63.0	1983	44	91	.0	1.2	30.0	.0	.0	.0
May	86.0	61.8	73.9	103	1953	27	78.4	1975	43	1992	8	71.3	1988	2	278	.0	8.5	31.0	.0	.0	.0
Jun	90.5	68.0	79.3	106+	1985	5	83.0	1998	52	1984	1	76.6	1997	0	427	.7	19.6	30.0	.0	.0	.0
Jul	91.8	70.8	81.3	104	1932	15	83.3	1993	61+	1967	16	78.7	1984	0	505	.5	24.8	31.0	.0	.0	.0
Aug	91.7	70.3	81.0	102+	1993	18	83.8	1993	58	1997	23	79.2	1996	0	496	.4	24.0	31.0	.0	.0	.0
Sep	88.8	67.0	77.9	101+	1954	12	79.8	1990	42	1967	30	75.3	1983	0	387	.0	15.7	30.0	.0	.0	.0
Oct	81.3	56.5	68.9	95+	1951	7	74.6	1985	31	1952	30	63.2	1976	42	162	.0	2.4	31.0	.0	.1	.0
Nov	73.6	48.4	61.0	91	1935	6	67.6	1985	19	1950	25	53.7	1976	174	54	.0	.0	30.0	.0	1.4	.0
Dec	66.3	41.2	53.8	85+	1978	8	61.7	1971	7	1962	13	45.7	1989	365	16	.0	.0	29.5	.0	6.0	.0
Ann	79.7	55.4	67.6	106+	Jun 1985	5	83.8	Aug 1993	5	Jan 1985	21	42.4	Jan 1977	1542	2484	1.6	96.3	360.6	.0	20.6	.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

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

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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	5.50	4.86	4.49	1991	11	18.02	1991	.97	1989
Feb	4.11	3.27	5.16	1988	19	8.73	1998	1.19	1991
Mar	5.59	4.54	8.93	1948	31	12.86	1984	1.11	1979
Apr	3.22	2.78	4.55	1953	6	8.47	1983	.08	1986
May	3.10	2.56	5.81	1964	2	9.28	1976	.45	2000
Jun	5.82	5.54	5.52	1957	8	12.85	1985	.83	1990
Jul	6.18	5.98	5.07	1980	25	11.05	1984	1.69	1976
Aug	5.38	5.12	3.80	1936	1	9.01	1981	.73	1990
Sep	3.94	3.15	8.35	1932	15	13.03	1988	.31	1981
Oct	2.96	1.91	5.68	1947	16	7.84	1980	.00	1987
Nov	3.31	2.66	5.18	1976	28	11.14	1986	.25	1991
Dec	4.07	3.93	4.88	1985	13	9.56	1985	.69	1984
Ann	53.18	52.21	8.93	Mar 1948	31	18.02	Jan 1991	.00	Oct 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.1	7.4	3.6	1.8
Feb	8.1	5.8	2.6	1.3
Mar	8.1	6.4	3.3	1.9
Apr	6.4	4.3	2.2	1.1
May	7.0	4.9	2.0	1.0
Jun	11.6	8.3	3.7	1.8
Jul	13.5	9.2	4.1	1.7
Aug	13.1	8.6	3.4	1.4
Sep	9.5	6.0	2.2	.9
Oct	5.5	3.5	1.9	1.1
Nov	6.5	4.4	2.0	.9
Dec	8.5	5.6	2.2	1.3
Ann	107.9	74.4	33.2	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	1.67	2.19	2.97	3.64	4.29	4.97	5.72	6.59	7.72	9.49	11.13
Feb	1.12	1.51	2.10	2.62	3.13	3.66	4.25	4.95	5.86	7.29	8.62
Mar	1.56	2.09	2.90	3.60	4.28	5.00	5.79	6.73	7.95	9.86	11.64
Apr	.41	.66	1.12	1.57	2.04	2.57	3.18	3.93	4.95	6.63	8.25
May	.72	1.01	1.46	1.87	2.28	2.70	3.19	3.76	4.51	5.71	6.84
Jun	1.72	2.28	3.11	3.82	4.52	5.25	6.05	6.99	8.21	10.11	11.88
Jul	2.52	3.09	3.89	4.55	5.17	5.80	6.48	7.26	8.26	9.78	11.16
Aug	1.52	2.03	2.80	3.48	4.13	4.82	5.57	6.47	7.63	9.45	11.14
Sep	.55	.87	1.44	1.98	2.56	3.19	3.92	4.82	6.03	8.00	9.91
Oct	.06	.24	.61	1.02	1.50	2.05	2.73	3.59	4.81	6.88	8.94
Nov	.46	.74	1.21	1.67	2.15	2.68	3.29	4.04	5.05	6.71	8.30
Dec	.68	1.03	1.62	2.18	2.76	3.38	4.10	4.97	6.13	8.01	9.81
Ann	40.25	42.81	46.07	48.51	50.67	52.74	54.87	57.21	60.03	64.10	67.59

\+ 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	#	1977	16	#	1977	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1980	2	#	1980	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	1.0	1989	23	1.0	1989	1	1989	23	#	1989	@	@	.0	.0	.0	@	.0	.0	.0
Ann	#	.0	N/A	N/A	1.0	Dec 1989	23	1.0	Dec 1989	1	Dec 1989	23	#	Dec 1989	@	@	.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	4/11	4/03	3/28	3/23	3/18	3/14	3/09	3/03	2/23
32	3/14	3/07	3/02	2/25	2/21	2/17	2/13	2/08	2/01
28	3/07	2/28	2/22	2/18	2/14	2/09	2/05	1/31	1/23
24	2/24	2/14	2/07	2/01	1/26	1/19	1/11	12/26	0/00
20	2/05	1/26	1/18	1/10	12/29	0/00	0/00	0/00	0/00
16	1/16	12/28	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	11/20	11/25	12/01	12/09
32	11/02	11/10	11/16	11/21	11/26	12/01	12/06	12/12	12/20
28	11/19	11/29	12/07	12/14	12/20	12/27	1/02	1/10	1/21
24	12/09	12/20	12/28	1/04	1/11	1/19	1/28	2/15	0/00
20	12/21	1/02	1/11	1/21	2/04	0/00	0/00	0/00	0/00
16	1/10	1/29	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	277	265	256	249	242	235	228	219	207
32	307	297	289	283	277	271	265	257	247
28	345	328	318	311	305	298	292	284	273
24	>365	>365	>365	>365	355	338	325	313	299
20	>365	>365	>365	>365	>365	>365	>365	>365	338
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	446	296	173	44	2	0	0	0	0	42	174	365	1542
60	319	181	87	9	0	0	0	0	0	12	91	239	938
57	256	128	49	2	0	0	0	0	0	5	54	179	673
55	219	98	32	1	0	0	0	0	0	2	36	145	533
50	139	41	9	0	0	0	0	0	0	0	11	73	273
32	9	0	0	0	0	0	0	0	0	0	0	0	9

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	612	639	896	1037	1299	1417	1528	1519	1377	1144	870	674	13012
55	109	93	215	348	586	727	815	806	687	433	216	106	5141
57	84	67	170	290	524	667	753	744	627	373	174	78	4551
60	54	36	115	206	431	577	660	651	537	287	121	45	3720
65	11	11	46	91	278	427	505	496	387	162	54	16	2484
70	11	0	13	23	140	277	350	341	238	70	18	4	1485

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	430	484	713	828	1084	1199	1294	1285	1149	928	672	484	430	914	1627	2455	3539	4738	6032	7317	8466	9394	10066	10550
45	299	348	559	678	929	1049	1139	1130	999	773	523	337	299	647	1206	1884	2813	3862	5001	6131	7130	7903	8426	8763
50	183	231	410	528	774	899	984	975	849	618	377	215	183	414	824	1352	2126	3025	4009	4984	5833	6451	6828	7043
55	101	132	271	380	619	749	829	820	699	465	249	127	101	233	504	884	1503	2252	3081	3901	4600	5065	5314	5441
60	44	62	154	243	464	599	674	665	549	313	144	61	44	106	260	503	967	1566	2240	2905	3454	3767	3911	3972
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	268	307	460	544	742	820	893	883	796	624	434	300	268	575	1035	1579	2321	3141	4034	4917	5713	6337	6771	7071

(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