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: MILTON EXPERIMENT STN, FL **COOP ID: 085793**

Climate Division: FL 1 **NWS Call Sign:** **Elevation: 217 Feet** **Lat: 30˚47N** **Lon: 87˚08W**

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	60.6	38.5	49.6	84	1949	12	62.4	1974	3	1985	21	40.1	1977	497	5	.0	.0	26.2	.2	10.3	.0
Feb	64.5	41.0	52.8	84	1962	13	58.8	1975	11	1951	3	43.9	1978	348	6	.0	.0	25.9	.1	6.3	.0
Mar	71.2	47.7	59.5	88	1982	19	65.7	1997	20+	1996	10	54.0	1983	200	29	.0	.0	30.6	.0	1.6	.0
Apr	77.9	53.6	65.8	94+	1999	25	71.0	1999	30	1987	1	60.8	1983	67	88	.0	.4	29.9	.0	.2	.0
May	84.9	61.8	73.4	99+	1998	21	76.9	2000	39	1971	4	69.8	1976	4	263	.0	6.3	31.0	.0	.0	.0
Jun	90.1	68.6	79.4	103	1954	29	83.3	1998	50+	1984	1	77.1	1997	0	429	.2	18.2	30.0	.0	.0	.0
Jul	91.6	71.1	81.4	104	1952	24	84.1	2000	55+	1967	16	79.2	1984	0	507	.6	22.7	31.0	.0	.0	.0
Aug	91.5	70.6	81.1	102+	1954	28	85.0	1999	57	1992	30	79.1	1992	0	497	.4	23.5	31.0	.0	.0	.0
Sep	88.2	66.3	77.3	102	1997	22	81.1	1980	37	1967	30	74.0	1983	0	367	.1	14.4	30.0	.0	.0	.0
Oct	80.3	54.4	67.4	98+	1954	6	71.9	1984	28+	1954	31	60.3	1987	62	135	.0	1.9	31.0	.0	.1	.0
Nov	70.8	46.7	58.8	88+	2000	1	65.1	1985	19+	1970	25	50.9	1976	223	34	.0	.0	29.6	.0	2.6	.0
Dec	63.0	40.7	51.9	82+	1998	9	60.6	1971	8+	1989	24	43.6	1989	422	14	.0	.0	27.9	.1	7.9	.0
Ann	77.9	55.1	66.5	104	Jul 1952	24	85.0	Aug 1999	3	Jan 1985	21	40.1	Jan 1977	1823	2374	1.3	87.4	354.1	.4	29.0	.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

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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	6.39	5.85	8.78	1978	25	16.06	1991	.66	1989
Feb	5.04	4.86	4.22	1955	6	9.74	1985	1.45	1999
Mar	7.32	6.54	8.00	1990	16	17.73	1990	3.82	1974
Apr	4.35	3.86	6.22	1994	13	9.09	1983	.51	1987
May	4.83	4.19	7.40	1995	10	11.80	1991	.15	2000
Jun	7.11	6.11	12.08	1970	3	23.96	1989	.97	1998
Jul	8.17	8.04	8.74	1975	31	23.32	1975	2.74	1972
Aug	6.62	6.53	7.40	1995	4	11.39	1984	3.00	1989
Sep	6.12	5.11	12.00	1998	26	21.73	1998	1.33+	1999
Oct	3.66	3.15	10.00	1995	4	16.85	1995	.00	1978
Nov	5.47	5.11	4.01	2000	25	10.85	1989	1.54	1990
Dec	4.40	4.02	4.62	1983	11	10.09	1972	.68	1980
Ann	69.48	69.52	12.08	Jun 1970	3	23.96	Jun 1989	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	7.6	4.3	2.2
Feb	9.1	6.4	3.4	1.7
Mar	10.2	7.3	4.2	2.3
Apr	7.6	5.0	2.8	1.4
May	8.9	6.0	2.9	1.4
Jun	10.8	8.1	4.4	2.0
Jul	14.9	11.3	5.8	2.3
Aug	13.3	9.6	4.3	2.2
Sep	9.9	6.6	3.4	1.8
Oct	5.9	3.7	1.9	.9
Nov	9.1	6.1	3.7	1.9
Dec	9.7	6.0	2.9	1.4
Ann	120.5	83.7	44.0	21.5

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	1.68	2.28	3.21	4.02	4.82	5.67	6.60	7.72	9.16	11.45	13.58
Feb	1.41	1.89	2.61	3.24	3.86	4.51	5.22	6.07	7.16	8.88	10.48
Mar	3.32	3.97	4.86	5.59	6.27	6.95	7.68	8.52	9.57	11.16	12.60
Apr	.93	1.33	1.97	2.55	3.13	3.75	4.45	5.29	6.40	8.17	9.84
May	.67	1.06	1.76	2.43	3.13	3.90	4.80	5.90	7.38	9.80	12.14
Jun	1.62	2.28	3.32	4.26	5.19	6.18	7.30	8.63	10.37	13.15	15.77
Jul	2.82	3.59	4.71	5.66	6.57	7.51	8.53	9.72	11.25	13.61	15.78
Aug	2.90	3.50	4.32	5.00	5.63	6.26	6.95	7.73	8.72	10.22	11.57
Sep	1.29	1.85	2.75	3.56	4.38	5.26	6.25	7.44	9.00	11.51	13.88
Oct	.13	.41	.92	1.45	2.04	2.70	3.49	4.49	5.86	8.17	10.43
Nov	1.73	2.25	3.02	3.67	4.31	4.97	5.69	6.54	7.63	9.33	10.90
Dec	1.40	1.82	2.44	2.97	3.48	4.00	4.58	5.26	6.13	7.48	8.74
Ann	48.98	52.93	58.01	61.87	65.30	68.62	72.05	75.84	80.45	87.14	92.92

\+ 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	.2	.0	0	0	2.0	1977	19	4.0	1977	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	3.3	1973	10	3.3	1973	3	1973	10	#	1973	@	@	@	.0	.0	@	@	.0	.0
Mar	.1	.0	0	0	2.0	1993	13	2.0	1993	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	.4	.0	N/A	N/A	3.3	Feb 1973	10	4.0	Jan 1977	3	Feb 1973	10	#	Feb 1973	.1	.1	@	.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	4/05	3/31	3/27	3/24	3/20	3/17	3/12	3/06
32	3/28	3/21	3/16	3/12	3/08	3/04	2/27	2/22	2/15
28	3/14	3/07	3/03	2/27	2/23	2/19	2/15	2/11	2/04
24	2/28	2/20	2/13	2/08	2/02	1/28	1/22	1/13	0/00
20	2/20	2/09	2/02	1/26	1/19	1/11	12/30	0/00	0/00
16	1/17	1/05	12/21	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	10/26	10/31	11/03	11/06	11/09	11/12	11/15	11/18	11/23
32	11/02	11/08	11/13	11/17	11/21	11/24	11/28	12/03	12/10
28	11/13	11/23	11/30	12/06	12/11	12/17	12/23	12/29	1/08
24	12/02	12/14	12/23	12/31	1/07	1/15	1/24	2/05	0/00
20	12/18	12/29	1/07	1/15	1/23	2/01	2/14	0/00	0/00
16	12/28	1/09	1/25	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	251	244	238	234	229	225	221	215	208
32	287	277	269	263	257	251	245	238	227
28	316	306	299	293	288	283	278	272	263
24	>365	>365	>365	346	333	323	315	306	294
20	>365	>365	>365	>365	>365	>365	350	330	311
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	497	348	200	67	4	0	0	0	0	62	223	422	1823
60	368	223	102	19	0	0	0	0	0	20	127	289	1148
57	299	161	60	7	0	0	0	0	0	9	83	223	842
55	258	126	39	3	0	0	0	0	0	5	59	185	675
50	172	59	10	0	0	0	0	0	0	0	21	106	368
32	14	0	0	0	0	0	0	0	0	0	0	3	17

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	557	582	852	1011	1282	1419	1530	1520	1356	1096	801	618	12624
55	88	64	178	324	569	729	817	807	666	388	170	87	4887
57	67	42	137	268	507	669	755	745	606	330	134	63	4323
60	43	21	86	190	414	579	662	652	516	248	88	37	3536
65	5	6	29	88	263	429	507	497	367	135	34	14	2374
70	4	0	7	27	130	279	352	342	222	56	10	2	1431

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	351	415	639	784	1048	1192	1292	1281	1130	869	588	413	351	766	1405	2189	3237	4429	5721	7002	8132	9001	9589	10002
45	234	287	488	634	893	1042	1137	1126	980	714	442	282	234	521	1009	1643	2536	3578	4715	5841	6821	7535	7977	8259
50	139	180	343	485	738	892	982	971	830	559	308	173	139	319	662	1147	1885	2777	3759	4730	5560	6119	6427	6600
55	77	97	218	342	583	742	827	816	680	409	197	98	77	174	392	734	1317	2059	2886	3702	4382	4791	4988	5086
60	32	43	114	208	429	592	672	661	530	267	104	49	32	75	189	397	826	1418	2090	2751	3281	3548	3652	3701
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	218	259	400	513	716	822	894	881	778	579	375	258	218	477	877	1390	2106	2928	3822	4703	5481	6060	6435	6693

(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