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: MAYO, FL **COOP ID: 085539**

Climate Division: FL 2 **NWS Call Sign:** **Elevation: 65 Feet** **Lat: 30˚03N** **Lon: 83˚10W**

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	65.9	40.0	53.0	86	1996	3	67.2	1974	7	1985	21	43.4	1977	403	17	.0	.0	28.7	@	9.4	.0
Feb	69.1	42.3	55.7	86+	1996	26	62.9	1990	12	1996	5	46.4	1978	278	17	.0	.0	27.0	.1	5.7	.0
Mar	75.7	48.8	62.3	91	1974	11	68.5	1997	19	1980	3	56.5	1996	148	63	.0	.1	30.7	.0	1.6	.0
Apr	81.4	53.9	67.7	96	1999	25	72.6	1999	31	1960	11	63.2	1993	41	120	.0	1.7	30.0	.0	@	.0
May	87.8	62.0	74.9	101+	1953	27	78.8	1991	41	1992	8	72.0	1988	1	307	.0	9.8	31.0	.0	.0	.0
Jun	91.4	69.1	80.3	104+	1998	19	84.8	1998	47	1984	1	77.5	1972	0	457	.7	20.0	30.0	.0	.0	.0
Jul	92.7	71.9	82.3	103	1981	9	84.9	1998	60	1988	8	79.8+	1984	0	536	.3	24.7	31.0	.0	.0	.0
Aug	92.2	71.5	81.9	103+	1999	1	83.9	1987	58	1957	25	80.6	1996	0	522	.3	24.3	31.0	.0	.0	.0
Sep	89.7	68.2	79.0	99+	1998	1	81.3	1977	40	1967	30	76.5	2000	0	418	.0	17.9	30.0	.0	.0	.0
Oct	82.9	56.9	69.9	96	1986	2	76.2	1985	27	1952	30	63.9	1987	43	194	.0	3.3	31.0	.0	.1	.0
Nov	75.4	49.2	62.3	90+	1998	2	69.2	1985	19	1956	28	55.5	1976	155	74	.0	.1	29.9	.0	2.3	.0
Dec	67.9	42.1	55.0	86	1978	9	64.7	1971	10	1962	13	46.1	1989	340	29	.0	.0	29.3	.1	7.5	.0
Ann	81.0	56.3	68.7	104+	Jun 1998	19	84.9	Jul 1998	7	Jan 1985	21	43.4	Jan 1977	1409	2754	1.3	101.9	359.6	.2	26.6	.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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1949-2001

(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	4.88	4.59	4.26	1986	5	10.33	1991	.65	1989
Feb	3.66	3.70	4.24	1998	17	12.11	1998	.98	1989
Mar	4.85	4.21	7.15	1991	3	12.80	1991	.97	1979
Apr	3.07	1.95	6.22	1958	10	8.93	1979	.12	1986
May	3.19	2.91	6.00	1959	20	7.67	1991	.45	1998
Jun	5.82	5.77	5.60	1957	8	13.18	1996	2.00+	1988
Jul	7.60	7.36	5.60	1980	26	16.81	1980	.80	1972
Aug	7.97	7.00	8.60	1994	8	18.09	1994	2.09	1984
Sep	5.07	3.63	14.62	1964	12	19.71	1998	.18	1972
Oct	3.01	2.35	5.50	1996	8	9.51	1996	.11	1977
Nov	2.52	2.10	3.01	1985	1	6.27	1972	.15	1991
Dec	3.23	3.09	4.25	1983	29	7.96	1977	.68	1984
Ann	54.87	52.65	14.62	Sep 1964	12	19.71	Sep 1998	.11	Oct 1977

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.8	6.3	3.4	1.7
Feb	6.6	5.3	2.2	1.0
Mar	7.6	5.8	3.1	1.4
Apr	5.6	3.9	1.8	1.0
May	6.3	5.0	2.4	.9
Jun	11.5	9.1	4.1	1.7
Jul	13.7	10.7	5.3	2.6
Aug	13.8	11.0	5.0	2.4
Sep	9.3	6.9	2.8	1.4
Oct	4.7	3.4	1.8	.9
Nov	5.8	4.2	1.8	.8
Dec	6.6	4.8	2.4	1.0
Ann	100.3	76.4	36.1	16.8

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	1.35	1.81	2.52	3.13	3.73	4.36	5.06	5.88	6.95	8.63	10.19
Feb	.93	1.28	1.81	2.28	2.75	3.24	3.78	4.43	5.27	6.60	7.85
Mar	1.14	1.59	2.30	2.93	3.57	4.24	4.99	5.88	7.05	8.91	10.66
Apr	.24	.44	.84	1.26	1.73	2.27	2.91	3.73	4.85	6.75	8.62
May	.75	1.05	1.52	1.93	2.35	2.78	3.27	3.86	4.62	5.84	6.98
Jun	2.24	2.78	3.56	4.20	4.81	5.42	6.10	6.87	7.86	9.38	10.76
Jul	2.32	3.04	4.12	5.04	5.94	6.87	7.90	9.10	10.66	13.09	15.34
Aug	2.72	3.47	4.58	5.51	6.40	7.32	8.32	9.49	10.99	13.32	15.46
Sep	.52	.90	1.59	2.30	3.06	3.92	4.93	6.19	7.91	10.76	13.55
Oct	.22	.41	.79	1.21	1.67	2.20	2.84	3.65	4.78	6.68	8.56
Nov	.34	.54	.90	1.25	1.62	2.03	2.50	3.08	3.86	5.14	6.38
Dec	.59	.88	1.35	1.79	2.24	2.72	3.27	3.94	4.82	6.25	7.61
Ann	41.87	44.45	47.73	50.19	52.36	54.44	56.58	58.93	61.75	65.82	69.31

+ 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: 1949-2001
(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	0	.5	1977	19	.5	1977	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	.0	N/A	N/A	.5	Jan 1977	19	.5	Jan 1977	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	4/14	4/07	4/02	3/29	3/26	3/22	3/18	3/13	3/06
32	3/26	3/19	3/15	3/11	3/07	3/04	2/28	2/24	2/17
28	3/10	3/03	2/26	2/22	2/18	2/15	2/11	2/06	1/30
24	2/25	2/17	2/11	2/05	1/31	1/25	1/19	1/09	0/00
20	2/10	1/31	1/22	1/13	12/31	0/00	0/00	0/00	0/00
16	1/22	1/07	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	10/20	10/27	11/01	11/05	11/09	11/12	11/17	11/21	11/28
32	10/29	11/06	11/12	11/16	11/21	11/25	11/30	12/06	12/13
28	11/19	11/27	12/02	12/07	12/11	12/16	12/21	12/26	1/03
24	12/04	12/14	12/21	12/28	1/03	1/10	1/18	1/30	0/00
20	12/25	1/07	1/17	1/28	2/11	0/00	0/00	0/00	0/00
16	1/07	1/26	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	250	242	237	232	227	223	218	212	204
32	286	277	269	263	258	252	246	239	229
28	320	311	305	300	295	290	285	279	271
24	>365	>365	>365	354	338	328	319	309	296
20	>365	>365	>365	>365	>365	>365	>365	>365	335
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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	403	278	148	41	1	0	0	0	0	43	155	340	1409
60	299	171	70	9	0	0	0	0	0	13	80	226	868
57	243	123	38	3	0	0	0	0	0	6	47	172	632
55	209	94	24	1	0	0	0	0	0	3	31	139	501
50	133	40	6	0	0	0	0	0	0	0	10	72	261
32	11	0	0	0	0	0	0	0	0	0	0	1	12

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	661	663	938	1069	1329	1447	1559	1545	1408	1174	909	713	13415
55	146	113	249	381	616	757	846	832	718	465	251	139	5513
57	118	85	201	322	554	697	784	770	658	405	206	109	4909
60	81	50	140	239	461	607	691	677	568	320	149	70	4053
65	17	17	63	120	307	457	536	522	418	194	74	29	2754
70	16	5	20	42	163	307	381	367	269	98	28	11	1707

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	421	475	697	827	1075	1200	1303	1287	1159	919	664	473	421	896	1593	2420	3495	4695	5998	7285	8444	9363	10027	10500
45	290	338	543	677	920	1050	1148	1132	1009	764	516	338	290	628	1171	1848	2768	3818	4966	6098	7107	7871	8387	8725
50	184	226	396	527	765	900	993	977	859	609	375	221	184	410	806	1333	2098	2998	3991	4968	5827	6436	6811	7032
55	107	128	259	380	610	750	838	822	709	456	251	132	107	235	494	874	1484	2234	3072	3894	4603	5059	5310	5442
60	50	62	149	246	455	600	683	667	559	311	149	68	50	112	261	507	962	1562	2245	2912	3471	3782	3931	3999
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	279	306	457	547	730	821	897	886	797	618	446	312	279	585	1042	1589	2319	3140	4037	4923	5720	6338	6784	7096

(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

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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