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: GLEN ST MARY 1 W, FL **COOP ID: 083470**

Climate Division: FL 2 **NWS Call Sign:** **Elevation: 128 Feet** **Lat: 30˚16N** **Lon: 82˚11W**

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	65.4	39.6	52.5	89	1932	18	65.9	1974	7	1985	21	44.4	1977	414	11	.0	.0	29.0	.0	9.8	.0
Feb	68.4	41.6	55.0	89	1962	24	61.4	1982	14	1943	15	47.2	1978	290	11	.0	.0	27.4	.1	6.1	.0
Mar	74.7	47.0	60.9	90+	1945	17	66.7	1997	21	1943	4	55.7	1996	174	45	.0	.0	30.7	.0	2.0	.0
Apr	80.0	52.5	66.3	95	1935	1	70.1	1999	30+	1944	6	61.8	1993	59	96	.0	1.1	30.0	.0	.0	.0
May	85.7	60.2	73.0	102	1945	31	76.7	1991	40+	1992	2	69.5	1992	3	249	.0	6.8	31.0	.0	.0	.0
Jun	89.8	67.4	78.6	103+	1985	5	82.3	1998	45	1984	1	75.7	1997	0	407	.4	17.2	30.0	.0	.0	.0
Jul	91.8	70.3	81.1	102+	1998	2	83.4	1981	58+	1947	7	78.9	1975	0	499	.3	24.1	31.0	.0	.0	.0
Aug	90.9	70.1	80.5	100+	1999	1	82.3+	1987	57	1988	29	78.3	1994	0	481	@	21.2	31.0	.0	.0	.0
Sep	87.9	67.1	77.5	99	1944	5	80.9	1977	46	1981	19	74.8	1994	0	375	.0	13.7	30.0	.0	.0	.0
Oct	81.0	56.7	68.9	97	1941	9	75.2	1985	30	1952	30	62.0	1987	51	171	.0	1.4	31.0	.0	.0	.0
Nov	74.0	48.6	61.3	88+	1984	5	69.6	1985	20+	1950	26	54.7	1976	173	62	.0	.0	29.9	.0	2.1	.0
Dec	66.9	41.5	54.2	86	1956	16	63.1	1971	9	1962	13	46.0	1989	353	18	.0	.0	29.6	@	7.4	.0
Ann	79.7	55.2	67.5	103+	Jun 1985	5	83.4	Jul 1981	7	Jan 1985	21	44.4	Jan 1977	1517	2425	.7	85.5	360.6	.1	27.4	.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	4.34	4.39	3.58	1991	20	13.46	1991	.89	1981
Feb	3.41	2.70	5.03	1998	17	16.34	1998	.73	1989
Mar	4.52	4.35	5.00	1970	29	10.98	1987	.63	1999
Apr	3.29	2.51	4.00	1975	11	8.96	1991	.33	1987
May	3.58	3.28	6.41	1964	2	10.49	1976	.06	2000
Jun	6.53	6.09	6.00	1933	24	13.21	1971	1.11	1998
Jul	6.33	6.25	4.70	1964	31	9.84	1979	2.14	1996
Aug	7.33	6.93	4.65	1945	9	14.48	1981	2.64	1993
Sep	5.36	5.37	7.61	1950	6	13.44	1988	.24	1972
Oct	3.10	1.98	9.04	1944	19	11.65	1996	.30	1987
Nov	2.23	1.90	5.00	1969	1	4.92	1972	.09	1978
Dec	2.92	2.64	6.18	1983	29	9.71	1983	.26	1984
Ann	52.94	53.37	9.04	Oct 1944	19	16.34	Feb 1998	.06	May 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.9	6.8	3.0	1.4
Feb	6.8	4.9	2.2	.9
Mar	7.7	5.8	3.0	1.5
Apr	5.5	4.2	1.9	1.0
May	7.5	5.5	2.4	1.0
Jun	12.3	9.5	4.6	1.7
Jul	13.4	10.4	4.4	1.7
Aug	13.8	10.2	4.1	2.2
Sep	10.5	7.7	3.3	1.7
Oct	5.8	3.6	1.4	.8
Nov	5.4	3.8	1.5	.7
Dec	6.8	4.8	1.8	.7
Ann	104.4	77.2	33.6	15.3

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	1.01	1.42	2.05	2.62	3.19	3.79	4.46	5.26	6.31	7.98	9.55
Feb	.62	.92	1.42	1.88	2.36	2.87	3.45	4.16	5.10	6.61	8.05
Mar	1.04	1.46	2.12	2.71	3.30	3.93	4.64	5.48	6.58	8.34	10.00
Apr	.55	.83	1.31	1.76	2.23	2.73	3.31	4.01	4.95	6.47	7.92
May	.47	.76	1.27	1.77	2.29	2.87	3.55	4.37	5.49	7.32	9.09
Jun	2.20	2.82	3.72	4.49	5.22	5.98	6.81	7.78	9.02	10.95	12.72
Jul	3.30	3.82	4.52	5.08	5.59	6.10	6.63	7.24	8.00	9.14	10.16
Aug	3.11	3.77	4.70	5.47	6.18	6.91	7.68	8.58	9.71	11.44	13.00
Sep	.58	.99	1.73	2.47	3.28	4.17	5.23	6.54	8.33	11.28	14.16
Oct	.19	.37	.75	1.17	1.65	2.21	2.88	3.75	4.96	7.01	9.05
Nov	.25	.42	.73	1.04	1.37	1.74	2.18	2.72	3.46	4.67	5.86
Dec	.31	.53	.93	1.34	1.78	2.27	2.85	3.57	4.55	6.17	7.76
Ann	39.67	42.29	45.62	48.12	50.33	52.46	54.64	57.05	59.95	64.14	67.73

\+ 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

Complete documentation available from:
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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	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	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	.0	0	0	.0	0	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	.0	0	0	.0	0	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

@ 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	4/13	4/07	4/02	3/30	3/26	3/23	3/19	3/15	3/09
32	3/26	3/19	3/14	3/10	3/06	3/02	2/26	2/21	2/14
28	3/08	3/02	2/25	2/21	2/18	2/14	2/10	2/06	1/30
24	2/21	2/13	2/06	2/01	1/26	1/20	1/13	12/30	0/00
20	2/06	1/26	1/17	1/06	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	10/20	10/28	11/02	11/07	11/11	11/16	11/20	11/26	12/03
32	11/03	11/10	11/15	11/20	11/24	11/28	12/02	12/07	12/15
28	11/14	11/25	12/03	12/10	12/17	12/23	12/30	1/07	1/18
24	12/03	12/15	12/24	1/01	1/08	1/17	1/27	2/15	0/00
20	12/26	1/07	1/18	1/31	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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	254	246	239	234	229	224	219	213	204
32	290	280	273	267	262	257	251	244	235
28	335	319	310	304	298	292	286	278	269
24	>365	>365	>365	>365	344	330	320	311	300
20	>365	>365	>365	>365	>365	>365	>365	>365	340
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	414	290	174	59	3	0	0	0	0	51	173	353	1517
60	292	176	87	16	0	0	0	0	0	17	92	229	909
57	232	123	49	6	0	0	0	0	0	8	55	170	643
55	197	94	31	3	0	0	0	0	0	4	37	137	503
50	120	38	8	0	0	0	0	0	0	0	12	67	245
32	6	0	0	0	0	0	0	0	0	0	0	0	6

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	642	644	894	1027	1269	1397	1522	1504	1365	1143	879	688	12974
55	121	94	212	340	556	707	809	791	675	434	226	112	5077
57	93	68	168	283	494	647	747	729	615	375	184	83	4486
60	61	36	113	203	401	557	654	636	525	291	130	49	3656
65	11	11	45	96	249	407	499	481	375	171	62	18	2425
70	10	1	13	30	116	258	344	326	229	82	22	6	1437

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	411	446	654	780	1019	1154	1270	1249	1124	894	647	454	411	857	1511	2291	3310	4464	5734	6983	8107	9001	9648	10102
45	278	312	502	630	864	1004	1115	1094	974	739	498	324	278	590	1092	1722	2586	3590	4705	5799	6773	7512	8010	8334
50	173	197	356	481	709	854	960	939	824	584	358	204	173	370	726	1207	1916	2770	3730	4669	5493	6077	6435	6639
55	94	108	229	336	554	704	805	784	674	433	236	118	94	202	431	767	1321	2025	2830	3614	4288	4721	4957	5075
60	41	46	119	208	399	554	650	629	524	284	137	57	41	87	206	414	813	1367	2017	2646	3170	3454	3591	3648
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	271	292	426	510	687	785	867	865	779	598	425	298	271	563	989	1499	2186	2971	3838	4703	5482	6080	6505	6803

(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