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: INVERNESS 3 SE, FL **COOP ID: 084289**

Climate Division: FL 3 **NWS Call Sign:** **Elevation: 40 Feet** **Lat: 28˚48N** **Lon: 82˚19W**

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	69.9	44.0	57.0	88	1957	29	70.2	1974	15	1985	21	48.9	1981	291	28	.0	.0	30.3	.0	5.2	.0
Feb	71.9	45.5	58.7	89+	2001	16	65.9	1982	21+	1985	15	50.8	1978	211	34	.0	.0	27.6	.1	3.7	.0
Mar	77.2	51.0	64.1	93	1963	18	70.9	1997	24+	1993	15	58.2	1996	128	99	.0	.2	31.0	.0	.8	.0
Apr	81.9	55.8	68.9	95+	1968	23	72.9	1991	32	1996	11	63.1	1987	34	149	.0	2.6	30.0	.0	@	.0
May	87.6	62.9	75.3	100	1989	29	78.9	1975	42	1992	8	71.6	1992	1	320	@	10.9	31.0	.0	.0	.0
Jun	90.5	69.6	80.1	101+	1985	4	83.6	1981	40	1955	14	77.7	1995	0	452	.2	19.6	30.0	.0	.0	.0
Jul	91.6	71.3	81.5	100+	1998	6	83.6	1979	61	1985	6	78.2	1994	0	510	.1	24.2	31.0	.0	.0	.0
Aug	91.3	71.4	81.4	99+	1999	2	83.1	1983	61	1997	28	78.1	1994	0	507	.0	23.5	31.0	.0	.0	.0
Sep	89.7	69.5	79.6	105	1955	7	82.0	1974	51	1981	20	76.8	1994	0	438	@	17.4	30.0	.0	.0	.0
Oct	84.0	61.3	72.7	97	1959	3	77.8	1985	33	1989	23	68.0	1987	12	250	.0	3.8	31.0	.0	.0	.0
Nov	77.7	52.9	65.3	92	1988	17	71.9	1986	23+	2000	23	59.3	1991	100	108	.0	.2	30.0	.0	.5	.0
Dec	71.7	46.1	58.9	89	1972	8	66.8	1971	15	1989	25	49.2	1989	236	47	.0	.0	30.3	.0	3.4	.0
Ann	82.1	58.4	70.3	105	Sep 1955	7	83.6+	Jun 1981	15+	Dec 1989	25	48.9	Jan 1981	1013	2942	.3	102.4	363.2	.1	13.6	.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: 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	3.55	3.02	3.25	1994	30	9.56	1994	.26	1974
Feb	2.96	2.63	3.90	1970	3	6.62	1998	.46	1999
Mar	4.17	3.45	5.73	1960	15	11.13	1987	.85	1976
Apr	2.40	2.18	3.55	1966	4	5.89	1991	.07	1998
May	3.33	2.18	4.96	1979	8	11.97	1976	.20	2000
Jun	7.40	7.11	9.54	1974	25	17.44	1974	1.69	1977
Jul	7.05	7.02	5.35	1960	29	11.24	1982	3.71	1972
Aug	7.52	7.59	6.12	1968	29	15.03	1992	2.43	1993
Sep	5.93	5.35	7.20	1950	6	13.15	1979	1.25	1972
Oct	2.63	2.17	6.20	1992	3	9.04	1992	.00	1974
Nov	2.27	1.70	4.72	1951	16	7.73	1980	.00	1978
Dec	2.56	1.88	4.41	1972	22	10.46	1997	.11	1984
Ann	51.77	51.64	9.54	Jun 1974	25	17.44	Jun 1974	.00+	Nov 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.5	5.0	2.3	1.2
Feb	6.9	4.4	2.1	.9
Mar	7.5	5.3	2.8	1.3
Apr	4.9	3.4	1.8	.9
May	6.8	4.9	2.3	1.0
Jun	13.2	9.5	5.1	2.3
Jul	16.1	11.3	4.9	2.2
Aug	16.5	11.6	5.5	2.0
Sep	12.2	9.0	4.3	1.9
Oct	6.2	4.0	1.8	.6
Nov	6.0	3.6	1.4	.7
Dec	6.9	4.4	1.7	.7
Ann	110.7	76.4	36.0	15.7

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	.90	1.24	1.75	2.21	2.66	3.13	3.66	4.29	5.11	6.40	7.61
Feb	.59	.86	1.29	1.69	2.09	2.53	3.01	3.60	4.38	5.63	6.81
Mar	.78	1.16	1.77	2.34	2.91	3.53	4.24	5.09	6.22	8.03	9.76
Apr	.20	.37	.69	1.02	1.39	1.80	2.30	2.93	3.79	5.23	6.65
May	.34	.59	1.05	1.51	2.01	2.58	3.24	4.07	5.20	7.08	8.91
Jun	2.25	2.96	4.01	4.91	5.79	6.69	7.70	8.87	10.39	12.76	14.96
Jul	3.97	4.52	5.24	5.81	6.33	6.84	7.38	7.98	8.73	9.85	10.83
Aug	3.23	3.91	4.86	5.63	6.36	7.09	7.88	8.79	9.94	11.68	13.26
Sep	1.77	2.33	3.18	3.90	4.61	5.35	6.16	7.12	8.35	10.28	12.08
Oct	.17	.44	.85	1.24	1.64	2.09	2.61	3.24	4.10	5.51	6.87
Nov	.13	.34	.69	1.02	1.38	1.77	2.23	2.79	3.56	4.83	6.06
Dec	.23	.41	.76	1.11	1.50	1.94	2.47	3.12	4.02	5.53	7.01
Ann	38.99	41.52	44.73	47.15	49.28	51.33	53.44	55.76	58.55	62.58	66.05

\+ 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	.0	.0	0	0	.0	0	0	.0	0	0	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	.0	0	0	.0	0	0	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	4/06	3/28	3/21	3/15	3/09	3/04	2/26	2/19	2/09
32	3/20	3/11	3/04	2/26	2/21	2/16	2/10	2/03	1/22
28	2/25	2/16	2/09	2/03	1/28	1/22	1/14	1/03	0/00
24	2/19	2/09	1/31	1/23	1/13	12/27	0/00	0/00	0/00
20	1/10	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	11/02	11/12	11/18	11/24	11/29	12/05	12/10	12/17	12/26
32	11/20	11/30	12/07	12/13	12/18	12/24	12/30	1/07	1/19
28	12/01	12/14	12/24	1/01	1/10	1/19	1/29	2/14	0/00
24	12/16	12/30	1/11	1/22	2/04	2/26	0/00	0/00	0/00
20	1/08	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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	306	292	282	273	264	256	247	237	222
32	>365	333	319	308	300	291	282	272	258
28	>365	>365	>365	>365	346	332	320	309	294
24	>365	>365	>365	>365	>365	>365	358	334	316
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	291	211	128	34	1	0	0	0	0	12	100	236	1013
60	211	124	58	8	0	0	0	0	0	2	41	143	587
57	161	82	32	3	0	0	0	0	0	0	21	97	396
55	132	59	21	1	0	0	0	0	0	0	13	72	298
50	69	22	6	0	0	0	0	0	0	0	3	29	129
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	773	747	995	1105	1342	1442	1533	1530	1428	1261	998	833	13987
55	192	161	302	416	629	752	820	817	738	548	321	192	5888
57	159	129	251	358	567	692	758	755	678	486	270	156	5259
60	116	86	185	273	474	602	665	662	588	395	200	108	4354
65	28	34	99	149	320	452	510	507	438	250	108	47	2942
70	27	11	40	62	174	302	355	352	288	129	45	17	1802

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	538	553	759	876	1104	1211	1294	1290	1193	1020	762	593	538	1091	1850	2726	3830	5041	6335	7625	8818	9838	10600	11193
45	392	412	605	726	949	1061	1139	1135	1043	865	612	447	392	804	1409	2135	3084	4145	5284	6419	7462	8327	8939	9386
50	264	285	454	576	794	911	984	980	893	710	464	309	264	549	1003	1579	2373	3284	4268	5248	6141	6851	7315	7624
55	161	177	308	426	639	761	829	825	743	557	325	194	161	338	646	1072	1711	2472	3301	4126	4869	5426	5751	5945
60	82	94	184	283	484	611	674	670	593	402	202	102	82	176	360	643	1127	1738	2412	3082	3675	4077	4279	4381
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	356	360	496	583	755	838	898	898	833	701	505	385	356	716	1212	1795	2550	3388	4286	5184	6017	6718	7223	7608

(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