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: VENICE, FL **COOP ID: 089176**

Climate Division: FL 4 **NWS Call Sign:** **Elevation: 8 Feet** **Lat: 27˚06N** **Lon: 82˚26W**

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	72.6	52.1	62.4	89	1988	20	70.3	1974	23	1981	13	51.4	1981	186	89	.0	.0	30.7	.0	.8	.0
Feb	73.9	53.2	63.6	89	1997	20	69.8	1990	26	1996	5	55.6	1978	120	79	.0	.0	28.2	.0	.2	.0
Mar	77.7	57.8	67.8	90+	2000	18	74.4	1997	31	1962	8	63.9	1971	47	132	.0	.2	31.0	.0	.0	.0
Apr	81.5	61.1	71.3	95	1994	11	76.2	1994	41	1971	8	65.7	1987	12	201	.0	1.4	30.0	.0	.0	.0
May	86.6	67.0	76.8	98	1974	31	81.7	1995	49	1963	5	73.1	1988	0	366	.0	7.1	31.0	.0	.0	.0
Jun	89.6	72.2	80.9	100	1998	23	85.7	1998	56+	1984	2	78.1	1976	0	478	@	15.8	30.0	.0	.0	.0
Jul	91.1	73.5	82.3	99+	1996	28	85.0	1998	52	1967	17	80.5	1974	0	536	.0	23.5	31.0	.0	.0	.0
Aug	91.2	73.8	82.5	99+	2001	30	85.6	1995	65+	1975	18	80.6	1975	0	542	.0	24.3	31.0	.0	.0	.0
Sep	89.9	72.2	81.1	99+	1988	16	83.1	1998	60	1956	27	78.8	1975	0	482	.0	18.8	30.0	.0	.0	.0
Oct	85.3	65.7	75.5	95+	1998	5	78.9	1985	41	2001	28	70.8	1987	3	328	.0	4.5	31.0	.0	.0	.0
Nov	80.0	59.6	69.8	91+	2000	7	76.3	1986	29	1970	25	65.1	1981	31	174	.0	.4	30.0	.0	.0	.0
Dec	74.1	54.1	64.1	89+	1998	4	69.9	1971	22	1962	13	56.3	1989	136	107	.0	.0	30.8	.0	.6	.0
Ann	82.8	63.5	73.2	100	Jun 1998	23	85.7	Jun 1998	22	Dec 1962	13	51.4	Jan 1981	535	3514	@	96.0	364.7	.0	1.6	.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

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	2.68	2.54	3.14	1999	23	7.00	1973	.24	1974
Feb	2.16	1.79	2.78	1961	7	5.63	1998	.10	1999
Mar	3.37	2.78	5.80	1998	19	11.21	1987	.19	1981
Apr	1.91	1.49	4.28	1962	7	7.86	1997	.06	1975
May	2.20	1.56	3.72	1959	29	6.41	1996	.06+	1994
Jun	6.72	6.13	11.82	1992	25	25.91	1992	1.04+	1980
Jul	6.68	5.64	6.45	1995	18	15.61	1995	2.12	1981
Aug	8.12	7.73	4.72	1949	27	16.77	1981	3.21	1997
Sep	7.38	7.48	6.14	1997	27	13.23	1983	1.84	1981
Oct	3.14	2.33	3.75	1958	19	12.83	1995	.08	1981
Nov	2.08	1.55	5.64	1997	13	7.65	1997	.00	1991
Dec	2.33	1.58	3.88	1997	13	9.48	1997	.13	1991
Ann	48.77	46.73	11.82	Jun 1992	25	25.91	Jun 1992	.00	Nov 1991

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.3	4.2	1.8	.8
Feb	6.6	4.0	1.6	.8
Mar	6.1	3.8	1.9	1.2
Apr	4.5	2.9	1.3	.6
May	6.0	3.7	1.7	.8
Jun	10.7	8.0	3.9	1.9
Jul	13.9	10.3	4.7	2.0
Aug	15.1	11.6	5.9	2.5
Sep	13.2	9.6	4.5	2.3
Oct	7.5	4.5	2.2	1.1
Nov	5.7	3.3	1.3	.6
Dec	6.1	3.4	1.5	.7
Ann	102.7	69.3	32.3	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	.28	.48	.85	1.22	1.63	2.08	2.61	3.28	4.18	5.68	7.15
Feb	.22	.38	.67	.97	1.30	1.67	2.10	2.64	3.37	4.60	5.79
Mar	.28	.50	.95	1.41	1.93	2.51	3.21	4.10	5.31	7.36	9.37
Apr	.06	.14	.33	.57	.86	1.22	1.67	2.26	3.12	4.62	6.14
May	.14	.28	.55	.85	1.19	1.58	2.06	2.66	3.51	4.94	6.35
Jun	1.02	1.59	2.56	3.49	4.46	5.51	6.73	8.21	10.21	13.45	16.56
Jul	2.32	2.95	3.87	4.64	5.39	6.15	6.98	7.95	9.19	11.11	12.88
Aug	3.34	4.08	5.13	5.99	6.80	7.62	8.51	9.53	10.83	12.81	14.61
Sep	2.85	3.54	4.52	5.33	6.09	6.88	7.72	8.70	9.95	11.86	13.61
Oct	.16	.33	.70	1.12	1.60	2.17	2.88	3.78	5.06	7.25	9.43
Nov	.14	.35	.67	.98	1.30	1.65	2.06	2.57	3.24	4.36	5.43
Dec	.22	.38	.70	1.02	1.37	1.77	2.25	2.84	3.65	5.01	6.34
Ann	33.08	36.06	39.92	42.86	45.49	48.05	50.69	53.63	57.21	62.44	66.97

+ 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

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
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	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	#	1977	19	#	1977	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	#	Jan 1977	19	#	Jan 1977	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

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	2/28	2/18	2/12	2/06	1/31	1/25	1/17	1/06	0/00
32	2/09	1/30	1/22	1/14	1/05	0/00	0/00	0/00	0/00
28	1/26	1/15	12/31	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	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	12/05	12/16	12/24	12/30	1/06	1/13	1/21	2/03	0/00
32	12/23	12/31	1/06	1/13	1/21	0/00	0/00	0/00	0/00
28	1/05	1/23	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	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	>365	>365	>365	>365	339	327	317	307	294
32	>365	>365	>365	>365	>365	>365	>365	347	335
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	186	120	47	12	0	0	0	0	0	3	31	136	535
60	116	55	12	1	0	0	0	0	0	0	7	66	257
57	76	30	4	0	0	0	0	0	0	0	2	38	150
55	56	19	1	0	0	0	0	0	0	0	1	26	103
50	25	5	0	0	0	0	0	0	0	0	0	8	38
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	941	883	1108	1179	1389	1468	1559	1565	1472	1348	1133	994	15039
55	284	258	396	489	676	778	846	852	782	635	444	306	6746
57	242	212	337	429	614	718	784	790	722	573	385	257	6063
60	188	154	252	340	521	628	691	697	632	480	300	192	5075
65	89	79	132	201	366	478	536	542	482	328	174	107	3514
70	53	29	52	92	217	328	381	387	332	187	83	45	2186

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	693	682	864	951	1150	1240	1320	1330	1254	1119	906	753	693	1375	2239	3190	4340	5580	6900	8230	9484	10603	11509	12262
45	541	538	709	801	995	1090	1165	1175	1104	964	756	601	541	1079	1788	2589	3584	4674	5839	7014	8118	9082	9838	10439
50	394	399	555	651	840	940	1010	1020	954	809	606	452	394	793	1348	1999	2839	3779	4789	5809	6763	7572	8178	8630
55	262	268	404	502	685	790	855	865	804	654	457	312	262	530	934	1436	2121	2911	3766	4631	5435	6089	6546	6858
60	153	156	261	352	530	640	700	710	654	500	314	193	153	309	570	922	1452	2092	2792	3502	4156	4656	4970	5163
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	438	432	564	650	810	878	930	931	889	787	607	484	438	870	1434	2084	2894	3772	4702	5633	6522	7309	7916	8400

(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