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: NAPLES, FL **COOP ID: 086078**

Climate Division: FL 5 **NWS Call Sign:** **Elevation: 5 Feet** **Lat: 26˚10N** **Lon: 81˚47W**

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	75.1	53.4	64.3	88+	1990	21	70.8	1974	26+	1982	12	54.0	1981	126	89	.0	.0	31.0	.0	.5	.0
Feb	75.9	54.3	65.1	89+	1974	22	70.1	1997	28	1981	4	58.5	1978	82	85	.0	.0	28.2	.0	.2	.0
Mar	79.4	57.9	68.7	91+	1975	28	73.4	1997	33	1980	4	65.0	1981	27	141	.0	.3	31.0	.0	.0	.0
Apr	83.1	61.8	72.5	95	1965	14	75.9	1991	39	1971	8	66.6	1987	4	228	.0	1.9	30.0	.0	.0	.0
May	87.3	67.1	77.2	95	1971	18	80.2	1995	52+	1992	2	73.9	1992	0	377	.0	9.4	31.0	.0	.0	.0
Jun	89.9	71.7	80.8	98+	1985	6	83.5	1998	59	1984	1	78.9	1976	0	474	.0	20.4	30.0	.0	.0	.0
Jul	91.2	72.7	82.0	98+	1996	28	83.6	1996	62	1974	14	80.5	1974	0	524	.0	27.6	31.0	.0	.0	.0
Aug	91.4	73.2	82.3	97+	2001	31	84.1	1998	63	1973	21	81.1	1981	0	536	.0	27.4	31.0	.0	.0	.0
Sep	90.2	72.8	81.5	99	1986	1	83.3	1974	59	1993	24	79.9	1971	0	495	.0	23.3	30.0	.0	.0	.0
Oct	86.6	67.8	77.2	95+	1988	1	80.3	1985	46+	2000	11	74.0	2000	0	379	.0	9.0	31.0	.0	.0	.0
Nov	81.8	61.7	71.8	91+	1993	15	77.1	1986	31	1970	25	66.9	1981	9	211	.0	.7	30.0	.0	.0	.0
Dec	76.7	55.8	66.3	89+	1982	1	71.5	1971	27+	1983	26	61.0	1989	68	107	.0	.0	31.0	.0	.2	.0
Ann	84.1	64.2	74.1	99	Sep 1986	1	84.1	Aug 1998	26+	Jan 1982	12	54.0	Jan 1981	316	3646	.0	120.0	365.2	.0	.9	.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

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: NAPLES, FL **COOP ID: 086078**

Climate Division: FL 5 **NWS Call Sign:** **Elevation: 5 Feet** **Lat: 26˚10N** **Lon: 81˚47W**

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	2.01	1.35	6.10	1991	16	9.40	1991	.09	1990
Feb	2.17	1.65	2.62	1981	19	7.99	1983	.01	1996
Mar	2.08	1.64	4.84	1970	8	8.12	1987	.00	1974
Apr	1.99	1.53	4.60	1997	12	7.73	1997	.03	1974
May	4.21	4.34	6.77	1975	29	10.70	1991	.64	1983
Jun	8.18	8.04	6.49	1977	3	14.51	1977	.91	1980
Jul	7.98	7.29	7.66	1985	23	21.49	1985	2.60	1996
Aug	8.05	7.65	3.84	1958	11	12.83	1981	2.17	1990
Sep	8.11	8.30	8.39	1957	4	16.62	1971	3.36	1997
Oct	3.60	3.48	10.70	1951	2	15.98	1995	.05	1977
Nov	1.99	1.24	4.82	1998	5	6.63	1998	.18	1978
Dec	1.53	.96	2.27	1958	27	6.28	1997	.00	1975
Ann	51.90	52.26	10.70	Oct 1951	2	21.49	Jul 1985	.00+	Dec 1975

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.2	3.2	1.1	.5
Feb	6.8	3.6	1.3	.7
Mar	5.8	2.9	1.4	.7
Apr	5.3	2.6	1.3	.5
May	8.3	5.2	2.4	1.5
Jun	14.6	9.7	5.2	2.7
Jul	17.2	12.3	5.1	2.5
Aug	17.6	12.7	5.1	2.2
Sep	16.5	11.3	5.4	2.4
Oct	9.6	5.2	2.2	1.0
Nov	7.2	3.1	1.1	.5
Dec	6.8	2.7	.9	.3
Ann	122.9	74.5	32.5	15.5

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	.10	.21	.45	.72	1.03	1.39	1.84	2.42	3.24	4.64	6.04
Feb	.13	.26	.52	.82	1.15	1.54	2.02	2.63	3.48	4.93	6.37
Mar	.07	.22	.51	.81	1.15	1.52	1.98	2.55	3.33	4.66	5.96
Apr	.09	.18	.41	.67	.97	1.34	1.79	2.38	3.22	4.66	6.11
May	.52	.86	1.45	2.04	2.66	3.35	4.15	5.14	6.49	8.70	10.84
Jun	2.33	3.10	4.28	5.30	6.29	7.33	8.48	9.84	11.60	14.36	16.92
Jul	3.45	4.17	5.17	5.99	6.76	7.54	8.37	9.32	10.53	12.36	14.02
Aug	3.35	4.08	5.12	5.96	6.76	7.57	8.44	9.44	10.71	12.64	14.39
Sep	3.43	4.17	5.20	6.04	6.83	7.64	8.50	9.49	10.74	12.65	14.39
Oct	.15	.33	.73	1.20	1.76	2.42	3.24	4.31	5.83	8.45	11.09
Nov	.16	.29	.55	.83	1.13	1.48	1.90	2.42	3.14	4.35	5.55
Dec	.02	.10	.28	.48	.73	1.02	1.37	1.84	2.50	3.63	4.78
Ann	37.25	40.09	43.74	46.50	48.95	51.32	53.76	56.46	59.72	64.46	68.55

\+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: NAPLES, FL **COOP ID: 086078**

Climate Division: FL 5 **NWS Call Sign:** **Elevation: 5 Feet** **Lat: 26°10N** **Lon: 81°47W**

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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: NAPLES, FL **COOP ID: 086078**

Climate Division: FL 5 **NWS Call Sign:** **Elevation: 5 Feet** **Lat: 26˚10N** **Lon: 81˚47W**

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	3/01	2/19	2/12	2/05	1/29	1/22	1/12	0/00	0/00
32	2/03	1/22	1/11	12/26	0/00	0/00	0/00	0/00	0/00
28	1/17	12/29	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

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	12/18	12/25	12/31	1/05	1/10	1/16	1/26	0/00	0/00
32	12/28	1/09	1/22	0/00	0/00	0/00	0/00	0/00	0/00
28	1/09	0/00	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	354	340	332	324	317	308
32	>365	>365	>365	>365	>365	>365	>365	>365	337
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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: NAPLES, FL **COOP ID: 086078**

Climate Division: FL 5 **NWS Call Sign:** **Elevation: 5 Feet** **Lat: 26˚10N** **Lon: 81˚47W**

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	126	82	27	4	0	0	0	0	0	0	9	68	316
60	67	28	4	0	0	0	0	0	0	0	1	20	120
57	39	13	1	0	0	0	0	0	0	0	0	8	61
55	26	7	0	0	0	0	0	0	0	0	0	4	37
50	9	1	0	0	0	0	0	0	0	0	0	0	10
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	1001	927	1137	1214	1400	1464	1547	1559	1485	1402	1191	1062	15389
55	314	290	424	524	687	774	834	846	795	689	501	353	7031
57	265	239	363	464	625	714	772	784	735	627	441	295	6324
60	200	171	273	374	532	624	679	691	645	534	352	214	5289
65	89	85	141	228	377	474	524	536	495	379	211	107	3646
70	52	28	53	106	224	324	369	381	345	228	98	37	2245

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	800	767	936	1002	1172	1241	1318	1330	1258	1176	983	852	800	1567	2503	3505	4677	5918	7236	8566	9824	11000	11983	12835
45	645	622	781	852	1017	1091	1163	1175	1108	1021	833	698	645	1267	2048	2900	3917	5008	6171	7346	8454	9475	10308	11006
50	492	478	626	702	862	941	1008	1020	958	866	683	544	492	970	1596	2298	3160	4101	5109	6129	7087	7953	8636	9180
55	343	344	474	553	707	791	853	865	808	711	533	395	343	687	1161	1714	2421	3212	4065	4930	5738	6449	6982	7377
60	213	212	322	404	552	641	698	710	658	556	384	256	213	425	747	1151	1703	2344	3042	3752	4410	4966	5350	5606
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	525	507	632	694	828	871	921	930	892	828	678	563	525	1032	1664	2358	3186	4057	4978	5908	6800	7628	8306	8869

(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