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: DAYTONA BEACH INTL AP, FL **COOP ID: 082158**

Climate Division: FL 3 **NWS Call Sign: DAB** **Elevation: 31 Feet** **Lat: 29˚11N** **Lon: 81˚03W**

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	69.7	47.1	58.4	87	1991	30	69.3	1974	15	1985	21	49.4	1981	245	36	.0	.0	30.3	.0	2.2	.0
Feb	71.1	48.8	60.0	89	1985	1	67.5	1990	24	1958	18	51.8	1978	183	40	.0	.0	27.7	@	1.2	.0
Mar	75.6	53.7	64.7	92	1994	28	69.9	1997	26	1980	3	59.5	1971	99	86	.0	.2	30.9	.0	.3	.0
Apr	79.8	58.0	68.9	96	1968	24	73.7	1991	35	1950	8	64.5	1983	29	150	.0	1.5	30.0	.0	.0	.0
May	85.0	64.5	74.8	100	1953	26	79.0	1995	44	1971	5	72.5	1992	1	306	.0	5.3	31.0	.0	.0	.0
Jun	88.8	70.6	79.7	101+	1998	16	84.5	1998	52	1984	2	76.6	1984	0	441	.3	11.2	30.0	.0	.0	.0
Jul	91.0	72.4	81.7	102	1981	15	83.5	1998	60	1981	1	79.2	1974	0	513	.1	18.8	31.0	.0	.0	.0
Aug	90.1	72.8	81.5	100+	1999	2	82.9	1977	65+	1984	23	79.5	1996	0	502	.1	14.2	31.0	.0	.0	.0
Sep	87.9	71.9	79.9	96+	1999	5	81.3	1973	52	1956	27	78.2	1994	0	436	.0	6.4	30.0	.0	.0	.0
Oct	82.6	65.3	74.0	95	1959	2	77.5	1985	41+	1993	31	70.6	1987	6	277	.0	.7	31.0	.0	.0	.0
Nov	76.9	57.0	67.0	89	1948	28	73.2	1986	27	1950	26	60.8	1976	67	122	.0	.0	30.0	.0	.0	.0
Dec	71.4	50.1	60.8	88	1990	31	67.8	1971	19	1983	26	53.3	1989	185	52	.0	.0	30.4	.0	1.4	.0
Ann	80.8	61.0	71.0	102	Jul 1981	15	84.5	Jun 1998	15	Jan 1985	21	49.4	Jan 1981	815	2961	.5	58.3	363.3	@	5.1	.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

Means/Medians(1)

Month	Mean	Median
Jan	3.13	2.44
Feb	2.74	1.98
Mar	3.84	2.52
Apr	2.54	2.56
May	3.26	3.04
Jun	5.69	5.97
Jul	5.17	5.07
Aug	6.09	6.26
Sep	6.61	5.86
Oct	4.48	3.73
Nov	3.03	1.92
Dec	2.71	2.13
Ann	49.29	46.39

Extremes

Month	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	5.67	1989	22	7.16	1986	.30	1974
Feb	3.57	1960	24	7.25	1998	.46	1997
Mar	4.98	1953	22	12.15	1996	1.01	1999
Apr	4.00	1949	5	6.17	1983	.14	1998
May	4.02	1984	23	12.33	1976	.16	1998
Jun	6.08	1966	30	12.67	1991	.83	1998
Jul	3.42	2001	31	14.43	1986	.16	1992
Aug	4.41	1949	27	10.71	1995	2.66	1993
Sep	6.16	1964	9	15.20	1979	.42	1972
Oct	6.84	1989	10	11.64	1989	.93	2000
Nov	8.99	1994	16	12.91	1994	.07	1978
Dec	3.65	1983	11	11.98	1983	.20	1984
Ann	8.99	Nov 1994	16	15.20	Sep 1979	.07	Nov 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.9	4.7	1.7	.8
Feb	7.5	4.4	1.6	.8
Mar	7.7	5.0	2.6	1.4
Apr	5.6	3.4	1.5	.8
May	8.2	5.3	2.1	.8
Jun	12.9	8.3	3.8	1.5
Jul	12.4	8.5	3.7	1.4
Aug	13.8	9.4	4.1	1.8
Sep	13.2	8.6	3.8	2.5
Oct	10.5	6.1	2.8	1.4
Nov	7.8	4.3	1.6	.6
Dec	7.8	4.6	1.8	.8
Ann	115.3	72.6	31.1	14.6

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	.45	.71	1.16	1.59	2.04	2.54	3.12	3.82	4.77	6.32	7.81
Feb	.39	.61	1.01	1.38	1.78	2.22	2.72	3.34	4.18	5.54	6.85
Mar	.78	1.13	1.70	2.21	2.73	3.29	3.92	4.67	5.67	7.27	8.78
Apr	.22	.40	.74	1.09	1.47	1.91	2.43	3.09	3.99	5.50	6.98
May	.47	.74	1.21	1.66	2.13	2.65	3.25	3.98	4.97	6.59	8.14
Jun	1.14	1.66	2.49	3.26	4.03	4.86	5.79	6.92	8.41	10.79	13.05
Jul	.92	1.38	2.13	2.84	3.56	4.34	5.22	6.30	7.73	10.04	12.24
Aug	2.67	3.22	3.97	4.59	5.17	5.76	6.38	7.10	8.01	9.38	10.62
Sep	1.59	2.21	3.17	4.03	4.89	5.79	6.80	8.00	9.58	12.08	14.43
Oct	.78	1.18	1.83	2.44	3.07	3.75	4.53	5.47	6.72	8.75	10.68
Nov	.19	.37	.75	1.16	1.63	2.17	2.83	3.67	4.84	6.82	8.79
Dec	.23	.42	.78	1.15	1.56	2.03	2.59	3.30	4.27	5.89	7.48
Ann	34.09	37.00	40.74	43.59	46.13	48.59	51.14	53.96	57.40	62.39	66.72

+ 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)

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
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
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	#	1977	19	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	#	1977
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	#	1989	23	#	1989	0	0	0	0	0
Ann	#+	Dec 1989	23	#+	Dec 1989	#	Jan 1977	19	#	May 1977

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	3/20	3/10	3/03	2/25	2/19	2/14	2/07	1/31	1/21
32	3/08	2/25	2/17	2/11	2/04	1/29	1/22	1/14	1/01
28	2/12	2/01	1/23	1/14	1/03	0/00	0/00	0/00	0/00
24	1/17	1/05	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	12/27	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	11/20	11/28	12/05	12/10	12/15	12/20	12/26	1/01	1/10
32	12/08	12/18	12/25	12/31	1/06	1/12	1/18	1/26	2/07
28	12/22	1/04	1/14	1/24	2/05	0/00	0/00	0/00	0/00
24	1/04	1/20	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	1/15	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	344	323	312	303	295	287	279	270	257
32	>365	>365	356	340	330	320	311	301	288
28	>365	>365	>365	>365	>365	>365	>365	345	329
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	245	183	99	29	1	0	0	0	0	6	67	185	815
60	175	97	36	4	0	0	0	0	0	0	22	107	441
57	128	59	17	1	0	0	0	0	0	0	9	67	281
55	99	39	9	0	0	0	0	0	0	0	5	46	198
50	46	13	1	0	0	0	0	0	0	0	0	17	77
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	815	782	1013	1110	1330	1431	1536	1525	1427	1292	1041	886	14188
55	177	184	315	421	617	741	823	812	737	579	359	223	5988
57	140	145	262	362	555	681	761	750	677	517	304	180	5334
60	92	96	188	277	462	591	668	657	587	425	228	124	4395
65	36	40	86	150	306	441	513	502	436	277	122	52	2961
70	6	9	26	57	162	291	358	347	287	140	42	11	1736

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	578	586	776	879	1086	1196	1293	1288	1194	1053	810	652	578	1164	1940	2819	3905	5101	6394	7682	8876	9929	10739	11391
45	429	444	622	729	931	1046	1138	1133	1044	898	660	500	429	873	1495	2224	3155	4201	5339	6472	7516	8414	9074	9574
50	295	313	470	579	776	896	983	978	894	743	510	356	295	608	1078	1657	2433	3329	4312	5290	6184	6927	7437	7793
55	183	195	323	430	621	746	828	823	744	589	366	230	183	378	701	1131	1752	2498	3326	4149	4893	5482	5848	6078
60	96	106	195	286	466	596	673	668	594	434	236	130	96	202	397	683	1149	1745	2418	3086	3680	4114	4350	4480
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	356	362	495	583	758	854	919	927	864	742	530	403	356	718	1213	1796	2554	3408	4327	5254	6118	6860	7390	7793

(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