

Climatology of the United States

No. 20

1971-2000

Station: WAUCHULA, FL

COOP ID: 089401

Climate Division: FL 4

NWS Call Sign:

Elevation: 60 Feet

Lat: 27° 33N

Lon: 81° 48W

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	72.8	48.5	60.7	88	1965	26	69.5	1974	20	1982	12	51.0	1981	190	43	.0	.0	30.9	.0	2.2	.0
Feb	74.3	49.2	61.8	93	1962	25	68.2	1982	25	1989	25	54.6	1978	141	50	.0	@	28.1	.0	1.4	.0
Mar	78.7	53.2	66.0	94+	1974	27	71.0	1997	23	1980	3	61.9	1983	71	102	.0	.7	31.0	.0	.2	.0
Apr	83.1	57.4	70.3	97	1968	22	73.5	1975	34	1950	8	65.7	1987	17	173	.0	4.6	30.0	.0	.0	.0
May	88.3	63.7	76.0	101+	1967	14	79.6	1995	44	1992	8	72.3	1992	0	342	.0	14.8	31.0	.0	.0	.0
Jun	90.7	69.6	80.2	102	1985	4	83.4	1998	51	1984	1	77.5	1976	0	454	@	21.9	30.0	.0	.0	.0
Jul	91.6	71.2	81.4	100+	1981	17	83.5	1992	57	1961	3	79.3	1974	0	509	.1	27.0	31.0	.0	.0	.0
Aug	91.7	71.7	81.7	98+	1989	18	83.3	1993	58	1950	1	80.4	2000	0	518	.0	27.0	31.0	.0	.0	.0
Sep	89.9	70.7	80.3	99	1961	20	82.1	1989	55	1956	27	78.7+	1984	0	459	.0	21.8	30.0	.0	.0	.0
Oct	85.1	64.2	74.7	95+	1986	7	79.0	1985	39	1977	18	71.4	1987	3	303	.0	5.9	31.0	.0	.0	.0
Nov	79.3	56.8	68.1	90+	1989	6	74.7	1986	24	1950	26	63.6	1981	42	134	.0	.1	30.0	.0	@	.0
Dec	74.2	50.7	62.5	92	1978	7	68.4	1971	21	1962	13	57.5	1989	137	58	.0	@	30.8	.0	1.2	.0
Ann	83.3	60.6	72.0	102	Jun 1985	4	83.5	Jul 1992	20	Jan 1982	12	51.0	Jan 1981	601	3145	.1	123.8	364.8	.0	5.0	.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/normal/usnormals.html

Issue Date: February 2004

(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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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: WAUCHULA, FL

COOP ID: 089401

Climate Division: FL 4

NWS Call Sign:

Elevation: 60 Feet

Lat: 27°33N

Lon: 81°48W

Precipitation (inches)

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days ⁽³⁾				Precipitation Probabilities ⁽¹⁾ Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians ⁽¹⁾		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily ⁽²⁾	Year	Day	Highest Monthly ⁽¹⁾	Year	Lowest Monthly ⁽¹⁾	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	2.30	1.85	2.74	1998	24	7.84	1979	.00	2000	5.5	3.7	1.5	.7	.04	.16	.44	.75	1.12	1.55	2.08	2.77	3.74	5.41	7.08
Feb	2.63	2.07	4.40	1998	17	8.82	1998	.00	2000	5.7	4.0	1.8	.7	.19	.46	.88	1.26	1.67	2.11	2.62	3.25	4.09	5.47	6.80
Mar	3.27	2.47	5.75	1965	2	12.14	1998	.30	1974	5.9	4.7	2.2	1.0	.36	.61	1.06	1.52	2.00	2.55	3.19	3.99	5.07	6.87	8.62
Apr	2.37	1.92	5.55	1953	13	6.60	1995	.00	1978	4.3	3.4	1.8	.9	.05	.18	.48	.80	1.18	1.63	2.17	2.87	3.86	5.54	7.22
May	3.83	3.13	5.72	1954	1	8.39	1976	.00	2000	7.1	5.3	2.5	1.4	.71	1.23	1.89	2.40	2.90	3.43	4.01	4.69	5.57	6.95	8.24
Jun	7.92	7.52	6.05	1982	18	15.96	1982	1.69	1998	12.5	9.9	5.0	2.3	2.83	3.57	4.65	5.56	6.43	7.31	8.28	9.41	10.84	13.06	15.10
Jul	7.85	8.35	4.73	1960	29	12.46	1977	2.21	1981	14.2	11.1	5.4	2.9	3.08	3.81	4.84	5.70	6.51	7.33	8.22	9.25	10.56	12.57	14.39
Aug	7.37	7.32	6.94	1949	27	12.76	1992	2.66	1982	14.7	11.8	5.2	2.6	4.13	4.70	5.46	6.06	6.60	7.14	7.71	8.35	9.15	10.32	11.37
Sep	6.17	5.62	5.33	1948	22	11.56	1979	1.44	1972	12.3	9.4	4.8	1.8	2.16	2.74	3.59	4.30	4.98	5.68	6.44	7.33	8.47	10.23	11.85
Oct	2.68	1.75	6.32	1975	29	10.36	1975	.00	2000	6.7	4.2	1.4	.7	.08	.28	.65	1.03	1.46	1.95	2.53	3.28	4.30	6.03	7.73
Nov	2.05	1.24	7.60	1997	14	11.18	1987	.12	1991	5.2	3.3	1.2	.5	.11	.22	.46	.74	1.05	1.43	1.88	2.47	3.29	4.70	6.11
Dec	2.00	1.51	3.96	1986	24	6.29	1997	.28	1991	5.3	3.4	1.3	.7	.28	.45	.74	1.02	1.31	1.62	1.99	2.45	3.05	4.05	5.00
Ann	50.44	51.47	7.60	Nov 1997	14	15.96	Jun 1982	.00+	Oct 2000	99.4	74.2	34.1	16.2	36.05	38.84	42.41	45.12	47.53	49.85	52.25	54.90	58.11	62.76	66.79

+ 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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Station: WAUCHULA, FL

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Climate Division: FL 4

NWS Call Sign:

Elevation: 60 Feet

Lat: 27°33N

Lon: 81°48W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	.8	1977	19	.8	1977	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	.8	Jan 1977	19	.8	Jan 1977	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	3/26	3/16	3/08	3/01	2/23	2/17	2/10	2/01	1/19
32	3/05	2/24	2/17	2/12	2/06	2/01	1/25	1/16	0/00
28	2/17	2/05	1/26	1/16	1/04	0/00	0/00	0/00	0/00
24	1/29	1/14	12/26	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	11/17	11/27	12/04	12/09	12/15	12/21	12/27	1/03	1/14
32	12/06	12/16	12/24	12/31	1/06	1/13	1/21	2/01	0/00
28	12/21	12/31	1/08	1/16	1/27	0/00	0/00	0/00	0/00
24	1/09	1/27	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	316	305	297	290	284	277	269	258
32	>365	>365	351	335	326	318	311	303	293
28	>365	>365	>365	>365	>365	>365	>365	333	316
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:

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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	190	141	71	17	0	0	0	0	0	3	42	137	601
60	131	68	20	2	0	0	0	0	0	0	10	61	292
57	89	37	8	0	0	0	0	0	0	0	3	31	168
55	65	23	4	0	0	0	0	0	0	0	1	19	112
50	27	6	0	0	0	0	0	0	0	0	0	4	37
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	887	834	1054	1146	1365	1444	1532	1541	1449	1323	1081	944	14600
55	239	213	344	456	652	754	819	828	759	610	392	250	6316
57	201	170	287	396	590	694	757	766	699	548	334	200	5642
60	150	118	206	308	497	604	664	673	609	455	251	137	4672
65	43	50	102	173	342	454	509	518	459	303	134	58	3145
70	34	15	34	73	192	304	354	363	309	164	54	16	1912

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	690	680	860	936	1145	1226	1305	1312	1228	1094	872	736	690	1370	2230	3166	4311	5537	6842	8154	9382	10476	11348	12084
45	539	537	705	786	990	1076	1150	1157	1078	939	722	584	539	1076	1781	2567	3557	4633	5783	6940	8018	8957	9679	10263
50	391	396	550	636	835	926	995	1002	928	784	572	434	391	787	1337	1973	2808	3734	4729	5731	6659	7443	8015	8449
55	265	271	401	487	680	776	840	847	778	629	426	297	265	536	937	1424	2104	2880	3720	4567	5345	5974	6400	6697
60	151	158	260	340	525	626	685	692	628	475	285	177	151	309	569	909	1434	2060	2745	3437	4065	4540	4825	5002
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	450	447	573	630	776	840	899	900	857	765	588	480	450	897	1470	2100	2876	3716	4615	5515	6372	7137	7725	8205

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

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| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
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References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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