

Climatology of the United States

No. 20

1971-2000

Station: WEEKI WACHEE, FL

COOP ID: 089430

Climate Division: FL 3

NWS Call Sign:

Elevation: 20 Feet

Lat: 28° 31N

Lon: 82° 35W

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	70.1	44.9	57.5	88+	1991	2	67.7	1974	13	1981	13	46.4	1981	298	50	.0	.0	30.4	.0	5.0	.0
Feb	71.9	46.7	59.3	91	1971	27	66.9	1990	21	2000	7	49.9	1978	210	49	.0	@	27.9	.1	3.1	.0
Mar	76.7	51.8	64.3	92	1991	27	73.0	1997	21	1980	3	58.4	1996	117	93	.0	.5	31.0	.0	.8	.0
Apr	81.6	56.2	68.9	96	1991	29	76.0	1991	34	1974	7	64.8	1987	33	150	.0	2.2	30.0	.0	.0	.0
May	86.9	63.0	75.0	100	1990	3	79.4	1990	44	1971	5	72.6	1973	1	308	@	8.7	31.0	.0	.0	.0
Jun	90.2	70.2	80.2	100	1981	18	84.4	1998	47	1984	1	78.0	1974	0	455	@	19.3	30.0	.0	.0	.0
Jul	91.5	71.9	81.7	105	1971	17	83.8	1992	60	1981	1	79.3	1974	0	518	.1	25.8	31.0	.0	.0	.0
Aug	91.4	71.8	81.6	98+	1999	3	83.9	1990	63	1976	30	80.0	1994	0	514	.0	26.0	31.0	.0	.0	.0
Sep	90.1	69.9	80.0	98	1991	5	82.2	1989	48	1981	20	77.7	1996	0	449	.0	19.8	30.0	.0	.0	.0
Oct	84.6	61.5	73.1	97	1990	4	79.4	1995	36	1973	30	68.4	1976	17	265	.0	5.1	31.0	.0	.0	.0
Nov	78.4	54.0	66.2	91+	1988	20	72.3	1986	23	1970	25	60.3	1976	81	117	.0	.2	30.0	.0	.5	.0
Dec	71.9	46.7	59.3	90+	1991	3	66.2	1990	19+	1989	25	51.3	1989	236	59	.0	.1	30.6	.0	3.3	.0
Ann	82.1	59.1	70.6	105	Jul 1971	17	84.4	Jun 1998	13	Jan 1981	13	46.4	Jan 1981	993	3027	.1	107.7	363.9	.1	12.7	.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: 1969-2001

(3) Derived from 1971-2000 serially complete daily data

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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: WEEKI WACHEE, FL

COOP ID: 089430

Climate Division: FL 3

NWS Call Sign:

Elevation: 20 Feet

Lat: 28°31N

Lon: 82°35W

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	3.74	3.26	5.70	1998	6	11.24	1994	.26	1974	6.1	4.7	2.4	1.1	.75	1.09	1.64	2.14	2.65	3.19	3.81	4.55	5.53	7.10	8.59
Feb	3.09	2.47	4.87	1971	8	12.05	1998	.12	1999	5.7	3.9	2.0	.7	.25	.46	.86	1.29	1.76	2.30	2.94	3.75	4.87	6.75	8.59
Mar	4.10	3.43	6.00	1972	31	12.62	1987	.48	1992	5.8	4.7	2.6	1.4	.74	1.11	1.71	2.26	2.83	3.45	4.15	5.00	6.13	7.94	9.68
Apr	2.44	2.33	2.90	1995	1	7.11	1997	.00+	1998	4.4	3.1	1.8	1.0	.00	.17	.55	.93	1.34	1.80	2.34	3.02	3.95	5.51	7.05
May	2.74	1.99	3.32	1976	23	11.95	1976	.00+	1998	5.3	4.0	2.0	1.1	.00	.22	.68	1.11	1.56	2.07	2.67	3.40	4.41	6.09	7.73
Jun	5.99	5.68	6.20	1972	19	17.24	1974	.40	1998	10.3	7.7	3.5	1.9	1.48	2.04	2.92	3.69	4.46	5.27	6.17	7.24	8.65	10.87	12.95
Jul	8.43	8.07	4.28	1974	13	14.80	1990	3.39	1997	13.3	10.5	5.3	3.0	4.38	5.07	6.01	6.75	7.44	8.12	8.84	9.65	10.67	12.20	13.56
Aug	7.54	7.12	4.16	1977	22	12.99	1977	1.75	1998	13.4	10.4	5.1	2.4	2.97	3.66	4.65	5.47	6.25	7.04	7.89	8.88	10.13	12.06	13.81
Sep	6.55	5.67	5.07	1988	6	18.35	1988	.28	1972	9.5	7.8	4.2	2.3	1.59	2.20	3.16	4.01	4.86	5.75	6.74	7.93	9.48	11.94	14.25
Oct	2.23	1.69	3.80	1997	28	8.29	1997	.00	2000	4.3	3.3	1.3	.7	.12	.32	.66	.99	1.34	1.73	2.19	2.75	3.52	4.80	6.04
Nov	2.22	1.91	3.50	1980	15	6.95	1980	.00+	1994	4.8	3.5	1.4	.7	.00	.30	.72	1.08	1.44	1.82	2.26	2.77	3.47	4.60	5.69
Dec	2.49	1.37	5.32	1972	22	8.10	1997	.25	1992	5.5	3.9	1.4	.8	.16	.31	.62	.96	1.34	1.79	2.32	3.01	3.97	5.60	7.21
Ann	51.56	51.00	6.20	Jun 1972	19	18.35	Sep 1988	.00+	Oct 2000	88.4	67.5	33.0	17.1	38.20	40.82	44.16	46.68	48.91	51.06	53.27	55.70	58.64	62.88	66.53

+ 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: 1969-2001

(3) Derived from 1971-2000 serially complete daily data

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Station: WEEKI WACHEE, FL

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Climate Division: FL 3

NWS Call Sign:

Elevation: 20 Feet

Lat: 28°31N

Lon: 82°35W

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	.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

Complete documentation available from:

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NWS Call Sign:

Elevation: 20 Feet

Lat: 28°31N

Lon: 82°35W

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	4/01	3/23	3/16	3/11	3/06	2/28	2/23	2/16	2/07
32	3/19	3/10	3/03	2/26	2/20	2/15	2/09	2/02	1/22
28	2/28	2/19	2/12	2/06	2/01	1/25	1/18	1/07	0/00
24	2/15	2/04	1/27	1/19	1/10	12/25	0/00	0/00	0/00
20	1/11	12/25	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	11/13	11/20	11/27	12/03	12/10	12/16	12/24	1/04
32	11/17	11/27	12/05	12/11	12/18	12/24	12/31	1/08	1/20
28	12/03	12/15	12/24	1/01	1/08	1/17	1/26	2/10	0/00
24	12/21	1/01	1/09	1/17	1/28	0/00	0/00	0/00	0/00
20	1/06	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	312	296	286	277	270	262	254	244	231
32	>365	323	309	301	293	287	280	271	261
28	>365	>365	>365	348	336	326	318	308	296
24	>365	>365	>365	>365	>365	>365	>365	342	320
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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Climate Division: FL 3 NWS Call Sign: Elevation: 20 Feet Lat: 28°31N Lon: 82°35W

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	298	210	117	33	1	0	0	0	0	17	81	236	993
60	206	128	50	7	0	0	0	0	0	4	29	146	570
57	157	88	26	2	0	0	0	0	0	1	14	102	390
55	128	65	16	0	0	0	0	0	0	0	8	76	293
50	67	27	4	0	0	0	0	0	0	0	1	33	132
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	791	763	999	1107	1330	1445	1541	1537	1439	1272	1026	846	14096
55	206	184	302	418	617	755	828	824	749	559	344	210	5996
57	173	151	250	359	555	695	766	762	689	497	290	173	5360
60	129	107	181	274	462	605	673	669	599	407	216	125	4447
65	50	49	93	150	308	455	518	514	449	265	117	59	3027
70	32	19	34	63	165	305	363	359	300	148	49	23	1860

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	560	569	764	875	1083	1206	1291	1286	1191	1021	796	613	560	1129	1893	2768	3851	5057	6348	7634	8825	9846	10642	11255
45	414	429	611	725	928	1056	1136	1131	1041	866	646	466	414	843	1454	2179	3107	4163	5299	6430	7471	8337	8983	9449
50	284	304	460	575	773	906	981	976	891	711	496	327	284	588	1048	1623	2396	3302	4283	5259	6150	6861	7357	7684
55	175	191	315	425	618	756	826	821	741	557	358	210	175	366	681	1106	1724	2480	3306	4127	4868	5425	5783	5993
60	94	101	192	281	463	606	671	666	591	404	228	119	94	195	387	668	1131	1737	2408	3074	3665	4069	4297	4416
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	369	370	499	582	741	843	892	894	828	697	528	407	369	739	1238	1820	2561	3404	4296	5190	6018	6715	7243	7650

(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.

- | | |
|---|---|
| <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 |
|---|---|

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