

# Climatography of the United States

No. 20

1971-2000

Station: OKEECHOBEE, FL

COOP ID: 086485

Climate Division: FL 4

NWS Call Sign:

Elevation: 21 Feet

Lat: 27° 12N

Lon: 80° 50W

## 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	74.7	51.5	63.1	87	1967	26	71.2	1974	16	1977	20	53.1	1981	161	86	.0	.0	30.9	.0	.9	.0
Feb	75.5	53.1	64.3	87+	2001	13	71.7	1990	28+	1989	25	56.4	1978	113	94	.0	.0	28.1	.0	.3	.0
Mar	78.8	57.7	68.3	94	1994	29	74.5	1997	29	1980	3	64.3	1981	52	152	.0	.2	31.0	.0	.1	.0
Apr	82.5	61.4	72.0	96	1988	25	77.8	1991	37	1987	2	65.2	1987	14	223	.0	1.0	30.0	.0	.0	.0
May	87.1	66.6	76.9	96+	1997	4	81.4	1994	49	1992	8	73.8	1988	0	368	.0	8.3	31.0	.0	.0	.0
Jun	89.4	71.8	80.6	100	1985	4	84.7	1998	54	1971	2	76.9	1976	0	468	@	15.0	30.0	.0	.0	.0
Jul	90.7	73.0	81.9	101	1998	4	85.0	1993	64+	1988	19	79.2	1985	0	522	.1	19.1	31.0	.0	.0	.0
Aug	90.7	73.3	82.0	101	1995	20	85.1	1995	65+	1988	12	79.3	1976	0	528	.1	21.1	31.0	.0	.0	.0
Sep	89.5	72.4	81.0	99	1970	7	84.1	1995	60	1980	2	78.6	1985	0	479	.0	16.4	30.0	.0	.0	.0
Oct	85.3	66.9	76.1	95	1981	12	79.3	1990	46	1989	21	72.8	1976	0	344	.0	3.9	31.0	.0	.0	.0
Nov	80.5	60.2	70.4	91	1982	5	75.8	1994	33	1970	25	66.9	1981	21	182	.0	.2	30.0	.0	.0	.0
Dec	75.3	53.9	64.6	87+	1982	6	70.4	1971	20+	1983	27	59.2	1985	113	100	.0	.0	30.9	.0	.5	.0
Ann	83.3	63.5	73.4	101+	Jul 1998	4	85.1	Aug 1995	16	Jan 1977	20	53.1	Jan 1981	474	3546	.2	85.2	364.9	.0	1.8	.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](http://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

057-A

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## No. 20 1971-2000

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

**Station: OKEECHOBEE, FL**

**COOP ID: 086485**

**Climate Division: FL 4**

**NWS Call Sign:**

**Elevation: 21 Feet**

**Lat: 27°12N**

**Lon: 80°50W**

### Precipitation (inches)

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days <sup>(3)</sup>				Precipitation Probabilities <sup>(1)</sup> Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians <sup>(1)</sup>		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily <sup>(2)</sup>	Year	Day	Highest Monthly <sup>(1)</sup>	Year	Lowest Monthly <sup>(1)</sup>	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	2.11	1.81	3.77	1991	16	8.41	1993	.14	1984	6.7	4.2	1.4	.4	.18	.32	.60	.90	1.22	1.59	2.02	2.57	3.33	4.60	5.85
Feb	2.09	1.55	2.47	1952	26	7.78	1983	.15	1985	6.1	3.9	1.2	.5	.26	.42	.72	1.01	1.32	1.66	2.06	2.55	3.22	4.32	5.38
Mar	2.93	2.85	4.20	1982	29	9.23	1982	.35	1990	6.5	4.8	1.9	1.0	.52	.78	1.21	1.61	2.02	2.46	2.96	3.57	4.38	5.69	6.94
Apr	2.35	1.90	2.56	1951	20	6.71	1980	.09	1986	6.1	4.4	1.5	.4	.27	.45	.78	1.11	1.45	1.84	2.30	2.87	3.63	4.90	6.14
May	3.93	3.66	6.70	1997	28	13.17	1997	.00	2000	8.3	6.4	2.9	1.4	.43	.91	1.57	2.14	2.71	3.32	4.02	4.85	5.96	7.73	9.42
Jun	6.16	5.60	4.08	1960	20	18.82	1992	1.29	1979	13.2	10.2	4.2	1.8	1.69	2.28	3.17	3.94	4.70	5.50	6.38	7.42	8.78	10.91	12.90
Jul	5.94	5.96	3.42	1968	7	11.37	1990	2.00	1993	11.6	9.4	3.6	1.3	2.86	3.37	4.07	4.64	5.16	5.68	6.23	6.86	7.66	8.85	9.92
Aug	6.43	6.34	6.50	1949	27	11.58	1981	1.47	1987	13.2	11.0	3.7	1.6	2.35	2.95	3.82	4.55	5.24	5.95	6.72	7.62	8.76	10.52	12.14
Sep	5.96	5.51	4.15	1979	4	14.10	1979	1.68	1988	11.8	9.7	3.6	1.5	2.63	3.16	3.90	4.51	5.07	5.64	6.25	6.94	7.82	9.16	10.37
Oct	3.62	3.02	9.29	1951	2	12.80	1995	.66	2000	8.1	5.8	2.2	1.0	.55	.86	1.38	1.88	2.40	2.96	3.62	4.42	5.49	7.23	8.90
Nov	2.36	1.89	3.25	1994	16	7.35	1987	.12	2000	6.4	4.2	1.1	.7	.34	.54	.88	1.21	1.55	1.92	2.35	2.88	3.59	4.74	5.85
Dec	1.78	1.41	3.73	1957	24	5.55	1997	.13	1981	6.3	3.5	1.1	.3	.25	.40	.65	.90	1.16	1.44	1.77	2.17	2.72	3.60	4.45
Ann	45.66	44.97	9.29	Oct 1951	2	18.82	Jun 1992	.00	May 2000	104.3	77.5	28.4	11.9	30.65	33.49	37.16	39.98	42.49	44.93	47.46	50.28	53.71	58.72	63.08

+ 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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**Lon: 80° 50W**

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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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	3/04	2/22	2/15	2/08	2/02	1/27	1/20	1/10	0/00
32	2/17	2/05	1/26	1/17	1/05	0/00	0/00	0/00	0/00
28	1/28	1/14	12/27	0/00	0/00	0/00	0/00	0/00	0/00
24	1/05	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	12/12	12/20	12/27	1/01	1/07	1/12	1/18	1/27	0/00
32	12/21	1/02	1/11	1/20	1/31	0/00	0/00	0/00	0/00
28	1/05	1/22	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	1/12	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	346	334	326	317	308	297
32	>365	>365	>365	>365	>365	>365	348	330	316
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:

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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	161	113	52	14	0	0	0	0	0	0	21	113	474
60	101	51	15	2	0	0	0	0	0	0	4	47	220
57	65	28	6	0	0	0	0	0	0	0	1	25	125
55	47	18	3	0	0	0	0	0	0	0	0	16	84
50	20	5	0	0	0	0	0	0	0	0	0	4	29
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	965	905	1124	1199	1390	1458	1545	1551	1469	1366	1151	1011	15134
55	298	278	413	509	677	768	832	838	779	653	461	313	6819
57	254	232	355	449	615	708	770	776	719	591	402	261	6132
60	198	171	271	361	522	618	677	683	629	498	315	190	5133
65	86	94	152	223	368	468	522	528	479	344	182	100	3546
70	57	38	70	113	220	318	367	373	329	195	82	38	2200

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	725	717	891	966	1158	1218	1312	1317	1233	1116	919	775	725	1442	2333	3299	4457	5675	6987	8304	9537	10653	11572	12347
45	570	572	736	816	1003	1068	1157	1162	1083	961	769	620	570	1142	1878	2694	3697	4765	5922	7084	8167	9128	9897	10517
50	424	429	582	666	848	918	1002	1007	933	806	619	471	424	853	1435	2101	2949	3867	4869	5876	6809	7615	8234	8705
55	281	292	430	516	693	768	847	852	783	651	469	324	281	573	1003	1519	2212	2980	3827	4679	5462	6113	6582	6906
60	166	179	287	370	538	618	692	697	633	496	325	202	166	345	632	1002	1540	2158	2850	3547	4180	4676	5001	5203
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	461	459	594	667	817	861	929	930	875	788	626	503	461	920	1514	2181	2998	3859	4788	5718	6593	7381	8007	8510

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)