

Climatography of the United States

No. 20

1971-2000

Station: LIVE OAK, FL

COOP ID: 085099

Climate Division: FL 2

NWS Call Sign:

Elevation: 120 Feet

Lat: 30° 17N

Lon: 82° 58W

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	67.4	42.7	55.1	86	1989	14	69.5	1974	6	1985	21	45.5	1977	352	30	.0	.0	29.8	@	7.7	.0
Feb	70.8	44.7	57.8	88	1971	26	64.1	1990	16	1996	5	48.5	1978	229	26	.0	.0	27.7	.1	5.1	.0
Mar	76.9	50.2	63.6	91+	1974	11	68.7	1997	19	1980	3	58.3	1971	118	72	.0	.1	30.9	.0	1.7	.0
Apr	82.3	54.9	68.6	96	1975	26	72.9	1991	31	1987	1	63.0	1987	29	137	.0	2.2	30.0	.0	@	.0
May	88.4	62.6	75.5	102	1953	26	80.2	1998	40	1971	4	72.3	1988	1	328	.1	12.5	31.0	.0	.0	.0
Jun	92.0	69.1	80.6	106	1985	6	86.0	1998	47	1984	1	77.3	1997	0	466	1.2	22.8	30.0	.0	.0	.0
Jul	93.3	71.6	82.5	104+	1986	20	85.6	1998	60	1975	3	79.8	1975	0	541	1.3	26.6	31.0	.0	.0	.0
Aug	92.5	71.3	81.9	103	1995	15	83.7	1998	59	1957	25	80.2	1976	0	524	.4	26.1	31.0	.0	.0	.0
Sep	89.8	68.5	79.2	99+	1997	21	81.3	1977	43	1967	30	77.0	1983	0	424	.0	18.3	30.0	.0	.0	.0
Oct	83.0	58.7	70.9	95+	1990	4	77.1	1985	27	1952	30	63.8	1987	31	213	.0	4.0	31.0	.0	.1	.0
Nov	75.8	51.2	63.5	90	1961	1	70.8	1985	15	1970	25	55.8	1976	131	86	.0	.0	29.9	.0	2.3	.0
Dec	68.8	44.6	56.7	86+	1998	7	64.7	1971	6	1962	13	48.4	1989	286	29	.0	.0	29.9	@	6.4	.0
Ann	81.8	57.5	69.7	106	Jun 1985	6	86.0	Jun 1998	6+	Jan 1985	21	45.5	Jan 1977	1177	2876	3.0	112.6	362.2	.1	23.3	.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: 1952-2001

(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: LIVE OAK, FL

COOP ID: 085099

Climate Division: FL 2

NWS Call Sign:

Elevation: 120 Feet

Lat: 30°17N

Lon: 82°58W

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	4.99	4.63	5.61	1963	12	15.43	1991	.61	1989	8.5	6.6	3.3	1.8	1.20	1.67	2.40	3.05	3.69	4.37	5.14	6.05	7.24	9.13	10.90
Feb	4.01	3.43	6.00	1998	16	14.88	1998	1.10	1997	6.4	5.1	2.7	1.1	.88	1.25	1.84	2.37	2.90	3.47	4.10	4.86	5.87	7.46	8.97
Mar	5.33	5.10	4.70	1991	2	11.72	1980	.79	1979	7.1	5.9	3.2	1.9	1.34	1.84	2.62	3.31	3.99	4.70	5.50	6.45	7.69	9.65	11.48
Apr	3.29	2.53	4.25	1958	10	13.17	1973	.42+	1993	5.2	3.8	2.0	1.2	.33	.57	1.01	1.47	1.97	2.53	3.19	4.01	5.14	7.01	8.85
May	3.23	2.96	4.10	1965	26	9.25	1976	.02	2000	6.7	5.1	2.4	.9	.41	.66	1.12	1.57	2.05	2.57	3.19	3.94	4.97	6.66	8.29
Jun	6.06	5.62	6.75	1957	9	17.35	1994	1.84	1988	11.0	8.6	4.1	2.0	2.02	2.59	3.43	4.15	4.84	5.55	6.32	7.23	8.39	10.20	11.87
Jul	6.35	5.58	5.63	1980	25	12.14	1984	1.74	1995	12.3	9.0	4.0	1.9	2.09	2.69	3.58	4.33	5.05	5.80	6.62	7.57	8.80	10.70	12.46
Aug	6.13	5.38	3.38	1961	26	12.74	1992	1.71	1984	12.3	8.9	4.3	2.0	2.37	2.94	3.75	4.43	5.06	5.72	6.42	7.24	8.28	9.87	11.33
Sep	4.64	3.54	12.95	1964	12	19.94	1998	.40	1990	8.2	6.1	2.5	1.4	.59	.96	1.62	2.27	2.95	3.70	4.58	5.67	7.14	9.55	11.89
Oct	3.26	1.94	5.25	1997	31	14.35	1997	.00	1987	4.5	3.2	1.8	.9	.03	.15	.47	.89	1.40	2.02	2.81	3.86	5.38	8.02	10.72
Nov	2.43	2.43	3.32	1957	30	5.06	1986	.05+	1996	5.4	3.8	1.8	.7	.23	.41	.74	1.07	1.44	1.86	2.35	2.96	3.80	5.20	6.57
Dec	3.11	2.89	3.38	1967	11	7.60	1977	.31	1991	6.3	4.7	2.1	1.0	.38	.62	1.06	1.49	1.95	2.46	3.06	3.80	4.80	6.44	8.04
Ann	52.83	51.83	12.95	Sep 1964	12	19.94	Sep 1998	.00	Oct 1987	93.9	70.8	34.2	16.8	36.64	39.74	43.73	46.78	49.49	52.11	54.83	57.84	61.50	66.83	71.44

+ 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: 1952-2001

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

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

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Station: LIVE OAK, FL

COOP ID: 085099

Climate Division: FL 2

NWS Call Sign:

Elevation: 120 Feet

Lat: 30° 17N

Lon: 82° 58W

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	#	1982	12	#+	1982	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1989	23	#+	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	#	0	#	1975	4	#	1975	#	1980	2	#	1980	.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	.1	.0	#	0	3.0	1989	23	3.0	1989	2	1989	23	#	1989	@	@	@	.0	.0	@	.0	.0	.0
Ann	.1	.0	N/A	N/A	3.0	Dec 1989	23	3.0	Dec 1989	2	Dec 1989	23	#+	Dec 1989	@	@	@	.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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No. 20
1971-2000**

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Climate Division: FL 2

NWS Call Sign:

Elevation: 120 Feet

Lat: 30° 17N

Lon: 82° 58W

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	4/14	4/08	4/04	3/31	3/27	3/24	3/20	3/15	3/09
32	3/29	3/22	3/17	3/13	3/09	3/04	2/28	2/23	2/16
28	3/15	3/06	2/27	2/22	2/17	2/11	2/06	1/30	1/21
24	2/25	2/16	2/09	2/03	1/29	1/23	1/16	1/07	0/00
20	2/13	2/02	1/25	1/17	1/08	12/23	0/00	0/00	0/00
16	1/20	1/05	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	10/19	10/27	11/01	11/06	11/10	11/15	11/19	11/25	12/02
32	10/28	11/04	11/10	11/15	11/19	11/24	11/29	12/04	12/12
28	11/13	11/23	11/30	12/06	12/12	12/18	12/24	12/31	1/10
24	11/24	12/05	12/13	12/21	12/28	1/04	1/12	1/23	0/00
20	12/21	12/31	1/09	1/16	1/26	2/11	0/00	0/00	0/00
16	1/03	1/18	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	252	243	237	232	227	222	217	211	203
32	285	275	267	261	255	249	243	235	225
28	327	313	305	299	293	288	282	276	267
24	>365	>365	>365	338	324	315	306	297	285
20	>365	>365	>365	>365	>365	>365	>365	339	324
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 2 NWS Call Sign: Elevation: 120 Feet Lat: 30°17N Lon: 82°58W

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	352	229	118	29	1	0	0	0	0	31	131	286	1177
60	250	135	48	5	0	0	0	0	0	9	61	178	686
57	198	92	23	1	0	0	0	0	0	4	34	127	479
55	165	67	14	0	0	0	0	0	0	2	22	97	367
50	95	26	2	0	0	0	0	0	0	0	6	42	171
32	3	0	0	0	0	0	0	0	0	0	0	0	3

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	718	721	978	1098	1350	1456	1564	1547	1414	1205	945	765	13761
55	167	144	278	408	637	766	851	834	724	493	276	150	5728
57	138	112	226	349	575	706	789	772	664	433	228	118	5110
60	97	72	157	263	482	616	696	679	574	345	166	75	4222
65	30	26	72	137	328	466	541	524	424	213	86	29	2876
70	23	8	22	52	184	316	386	369	275	109	33	10	1787

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	477	517	736	859	1104	1217	1317	1304	1174	960	708	527	477	994	1730	2589	3693	4910	6227	7531	8705	9665	10373	10900
45	337	385	581	709	949	1067	1162	1149	1024	805	559	383	337	722	1303	2012	2961	4028	5190	6339	7363	8168	8727	9110
50	219	263	430	559	794	917	1007	994	874	650	415	255	219	482	912	1471	2265	3182	4189	5183	6057	6707	7122	7377
55	128	157	291	410	639	767	852	839	724	497	282	155	128	285	576	986	1625	2392	3244	4083	4807	5304	5586	5741
60	64	80	170	269	484	617	697	684	574	347	169	84	64	144	314	583	1067	1684	2381	3065	3639	3986	4155	4239
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	317	344	490	577	744	822	897	892	812	651	474	343	317	661	1151	1728	2472	3294	4191	5083	5895	6546	7020	7363

(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