

Climatology of the United States No. 20

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

Station: CLEWISTON US ENGINEERS, FL

1971-2000

COOP ID: 081654

Climate Division: FL 5

NWS Call Sign:

Elevation: 20 Feet

Lat: 26° 45N

Lon: 80° 55W

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	73.8	54.7	64.3	90+	1984	26	72.2	1974	26	1982	12	54.3	1981	131	93	.0	@	30.9	.0	.6	.0
Feb	75.6	55.7	65.7	92	1990	18	72.7	1990	31	1967	26	57.2	1978	91	108	.0	.4	28.2	.0	.2	.0
Mar	79.7	59.4	69.6	95	1977	22	75.4	1997	29+	1986	2	64.7	1996	34	176	.0	1.8	31.0	.0	.1	.0
Apr	83.6	63.0	73.3	98	1982	20	76.7	1994	40+	1987	6	66.9	1987	5	254	.0	4.3	30.0	.0	.0	.0
May	87.8	68.0	77.9	98+	1973	30	80.8	1995	51	1992	8	74.2	1992	0	400	.0	10.5	31.0	.0	.0	.0
Jun	90.2	72.1	81.2	101	1989	10	84.8	1998	59	1955	5	79.1	1976	0	485	@	18.4	30.0	.0	.0	.0
Jul	91.9	72.8	82.4	101+	1998	14	84.3	1981	66	1984	4	80.8	1974	0	538	.1	25.2	31.0	.0	.0	.0
Aug	91.4	73.3	82.4	101	1995	7	83.6	1987	60	1957	24	81.2	1992	0	539	@	25.0	31.0	.0	.0	.0
Sep	89.7	73.4	81.6	98+	1998	8	83.0	1974	65+	2001	17	80.2	1984	0	496	.0	18.0	30.0	.0	.0	.0
Oct	85.2	69.6	77.4	97+	1997	2	80.5	1985	49	1990	27	74.3	1977	0	383	.0	4.4	31.0	.0	.0	.0
Nov	80.1	63.9	72.0	93	1979	11	78.3	1986	35	1970	25	67.8	1981	11	221	.0	.6	30.0	.0	.0	.0
Dec	74.8	57.3	66.1	90+	1972	7	72.0	1971	26	1989	24	58.6	1989	84	117	.0	@	30.9	.0	.3	.0
Ann	83.7	65.3	74.5	101+	Jul 1998	14	84.8	Jun 1998	26+	Dec 1989	24	54.3	Jan 1981	356	3810	.1	108.6	365.0	.0	1.2	.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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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	2.38	2.05	3.85	1991	16	8.14	2000	.17	1974	6.5	4.2	1.5	.6	.18	.34	.65	.97	1.34	1.76	2.26	2.89	3.76	5.24	6.69
Feb	2.01	1.63	3.43	1965	7	8.09	1983	.00	2000	5.4	3.5	1.2	.6	.04	.17	.42	.70	1.02	1.40	1.85	2.44	3.26	4.65	6.04
Mar	2.68	2.62	4.93	1970	26	5.64	1984	.01	1976	5.9	3.7	1.7	.8	.23	.41	.76	1.14	1.54	2.01	2.56	3.26	4.22	5.82	7.40
Apr	2.16	1.55	4.28	1964	26	7.67	1989	.03	1987	4.9	3.4	1.6	.6	.11	.23	.49	.77	1.11	1.50	1.98	2.61	3.48	4.98	6.47
May	4.50	3.58	9.60	1982	27	13.13	1982	.74	1983	7.8	5.3	2.5	1.4	.71	1.09	1.75	2.36	3.01	3.71	4.51	5.49	6.80	8.93	10.98
Jun	7.15	5.90	5.95	1965	12	19.05	1999	1.06	1979	13.5	9.7	4.4	2.3	1.93	2.61	3.64	4.55	5.43	6.36	7.39	8.62	10.21	12.70	15.03
Jul	6.58	6.43	3.56	1958	14	12.69	1984	2.25	1981	13.0	9.6	4.2	2.1	2.48	3.10	3.98	4.71	5.41	6.12	6.89	7.78	8.92	10.67	12.26
Aug	6.28	5.71	4.43	1988	27	12.78	1988	1.27	1997	14.1	10.1	4.0	1.7	2.56	3.13	3.95	4.62	5.25	5.89	6.58	7.38	8.39	9.94	11.34
Sep	4.99	4.25	6.61	1948	21	13.69	1979	.58	1991	12.5	8.5	3.1	1.3	1.12	1.59	2.32	2.98	3.63	4.33	5.12	6.06	7.30	9.26	11.12
Oct	2.87	1.97	7.50	1951	2	10.47	1995	.24	1984	7.7	4.8	1.9	.7	.32	.54	.94	1.34	1.77	2.24	2.81	3.50	4.45	6.01	7.54
Nov	2.28	1.57	6.09	1977	4	11.14	1977	.17	1996	5.3	3.0	1.3	.6	.11	.23	.50	.81	1.16	1.57	2.09	2.75	3.68	5.28	6.88
Dec	1.52	.84	5.87	1957	24	5.90	1994	.02	1991	4.9	2.7	1.0	.4	.06	.12	.29	.48	.72	1.00	1.35	1.81	2.47	3.62	4.77
Ann	45.40	45.88	9.60	May 1982	27	19.05	Jun 1999	.00	Feb 2000	101.5	68.5	28.4	13.1	32.67	35.14	38.31	40.71	42.84	44.89	47.01	49.35	52.19	56.30	59.84

+ 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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Climate Division: FL 5

NWS Call Sign:

Elevation: 20 Feet

Lat: 26°45N

Lon: 80°55W

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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Climate Division: FL 5

NWS Call Sign:

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Lat: 26° 45N

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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	2/23	2/12	2/03	1/25	1/15	12/28	0/00	0/00	0/00
32	2/12	1/26	1/06	0/00	0/00	0/00	0/00	0/00	0/00
28	1/09	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	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	12/22	1/04	1/14	1/24	2/05	2/25	0/00	0/00	0/00
32	1/01	1/19	2/09	0/00	0/00	0/00	0/00	0/00	0/00
28	1/14	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	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	>365	>365	>365	360	333	313
32	>365	>365	>365	>365	>365	>365	>365	>365	>365
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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Climate Division: FL 5 NWS Call Sign: Elevation: 20 Feet Lat: 26° 45N Lon: 80° 55W

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	131	91	34	5	0	0	0	0	0	0	11	84	356
60	76	36	8	0	0	0	0	0	0	0	1	30	151
57	46	19	2	0	0	0	0	0	0	0	0	15	82
55	32	12	1	0	0	0	0	0	0	0	0	8	53
50	12	2	0	0	0	0	0	0	0	0	0	1	15
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	999	942	1165	1239	1423	1475	1561	1562	1486	1406	1200	1056	15514
55	318	309	453	549	710	785	848	849	796	693	510	352	7172
57	269	260	393	489	648	725	786	787	736	631	450	296	6470
60	207	194	306	399	555	635	693	694	646	538	361	218	5446
65	93	108	176	254	400	485	538	539	496	383	221	117	3810
70	59	46	84	127	246	335	383	384	346	231	108	47	2396

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	761	744	924	1007	1183	1240	1317	1316	1252	1160	960	811	761	1505	2429	3436	4619	5859	7176	8492	9744	10904	11864	12675
45	608	599	769	857	1028	1090	1162	1161	1102	1005	810	658	608	1207	1976	2833	3861	4951	6113	7274	8376	9381	10191	10849
50	457	456	616	707	873	940	1007	1006	952	850	660	505	457	913	1529	2236	3109	4049	5056	6062	7014	7864	8524	9029
55	320	321	462	557	718	790	852	851	802	695	511	360	320	641	1103	1660	2378	3168	4020	4871	5673	6368	6879	7239
60	192	197	312	407	563	640	697	696	652	540	363	230	192	389	701	1108	1671	2311	3008	3704	4356	4896	5259	5489
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	480	472	613	690	829	871	922	929	896	828	659	523	480	952	1565	2255	3084	3955	4877	5806	6702	7530	8189	8712

(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/normal/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