

Climatology of the United States

No. 20

1971-2000

Station: KISSIMMEE 2, FL

COOP ID: 084625

Climate Division: FL 4

NWS Call Sign:

Elevation: 60 Feet

Lat: 28° 17N

Lon: 81° 25W

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	71.6	47.7	59.7	90	1962	28	68.8	1974	19	1985	22	50.4	1981	222	41	.0	.0	31.0	.0	1.9	.0
Feb	73.2	48.7	61.0	90+	1962	26	67.0	1982	27+	1996	5	53.7	1978	156	43	.0	.0	28.1	@	.9	.0
Mar	77.4	53.1	65.3	92	1964	3	70.5	1997	25	1980	3	60.9	1996	86	93	.0	.2	31.0	.0	.1	.0
Apr	81.7	58.1	69.9	98	1999	27	74.4	1999	38	1971	8	65.8	1987	17	163	.0	2.0	30.0	.0	.0	.0
May	86.7	64.3	75.5	100+	1962	28	78.9	1995	45+	1963	30	72.7	1992	0	325	.0	9.9	31.0	.0	.0	.0
Jun	90.2	70.4	80.3	101	1998	19	84.7	1998	50	1963	27	78.0	1976	0	459	.3	19.6	30.0	.0	.0	.0
Jul	91.6	71.9	81.8	101	1981	14	84.4	1998	56	1964	7	79.7	1975	0	518	.1	25.6	31.0	.0	.0	.0
Aug	91.6	72.3	82.0	103	1961	1	85.0	1995	60	1963	13	80.3	1992	0	526	.2	25.1	31.0	.0	.0	.0
Sep	89.7	71.1	80.4	98	1962	4	82.7	1995	56	1981	20	78.5	1994	0	462	.0	18.3	30.0	.0	.0	.0
Oct	84.5	64.5	74.5	97+	1966	2	78.4	1985	42+	1989	21	70.4	1987	4	299	.0	3.8	31.0	.0	.0	.0
Nov	78.8	56.6	67.7	92	1961	12	74.8	1986	29	1970	25	63.0	1976	49	129	.0	.0	30.0	.0	.0	.0
Dec	73.1	50.0	61.6	90	1961	16	67.8	1971	20+	1989	24	54.2	1989	160	53	.0	.0	30.8	.0	.9	.0
Ann	82.5	60.7	71.6	103	Aug 1961	1	85.0	Aug 1995	19	Jan 1985	22	50.4	Jan 1981	694	3111	.6	104.5	364.9	@	3.8	.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

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

038-A

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: KISSIMMEE 2, FL

COOP ID: 084625

Climate Division: FL 4

NWS Call Sign:

Elevation: 60 Feet

Lat: 28°17N

Lon: 81°25W

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	2.39	1.92	3.71	1996	2	6.97	1996	.20	1976	7.6	4.0	1.7	.7	.32	.51	.85	1.18	1.53	1.92	2.37	2.92	3.67	4.90	6.08
Feb	2.72	2.00	3.33	1971	8	9.62	1983	.07	1989	7.8	4.5	1.7	.8	.34	.56	.94	1.32	1.72	2.17	2.69	3.33	4.20	5.62	7.00
Mar	3.32	2.30	4.00	1960	15	12.11	1987	.53	2000	7.0	4.7	2.3	1.0	.54	.83	1.31	1.77	2.24	2.75	3.34	4.06	5.01	6.57	8.05
Apr	2.02	1.73	4.29	1994	22	5.97	1994	.11	1981	5.7	3.4	1.4	.5	.19	.33	.60	.89	1.19	1.54	1.95	2.47	3.17	4.35	5.51
May	3.83	3.07	3.19	1975	15	10.91	1979	.56	1986	8.5	5.8	2.3	1.1	.76	1.11	1.67	2.19	2.71	3.27	3.90	4.66	5.67	7.28	8.81
Jun	6.02	6.15	4.88	1996	12	11.93	1974	1.48	1980	14.1	9.5	4.2	1.8	2.19	2.75	3.57	4.25	4.90	5.57	6.29	7.13	8.21	9.87	11.39
Jul	6.55	6.09	7.65	1988	18	15.73	1988	2.22	1999	16.0	10.9	4.3	1.8	2.28	2.90	3.80	4.56	5.28	6.03	6.84	7.78	9.00	10.87	12.60
Aug	7.32	7.35	5.05	1977	24	12.69	1977	1.22	1993	16.1	10.8	4.6	2.2	3.06	3.72	4.66	5.43	6.16	6.89	7.68	8.58	9.73	11.48	13.08
Sep	6.01	5.99	6.70	1948	22	12.52	1979	.96	1972	13.6	9.3	4.1	1.6	1.63	2.20	3.07	3.83	4.58	5.36	6.22	7.25	8.58	10.68	12.63
Oct	3.17	2.65	4.19	1983	9	8.84	1983	.12	1979	8.4	5.1	2.1	.8	.36	.60	1.04	1.48	1.95	2.48	3.10	3.87	4.91	6.64	8.32
Nov	2.42	1.57	5.50	1994	16	10.26	1987	.25	1991	6.5	3.4	1.4	.8	.16	.30	.61	.94	1.31	1.74	2.26	2.93	3.85	5.42	6.98
Dec	2.24	1.41	6.83	1949	25	10.01	1997	.15	1984	6.9	3.8	1.3	.8	.17	.32	.61	.91	1.26	1.65	2.13	2.72	3.55	4.95	6.33
Ann	48.01	46.76	7.65	Jul 1988	18	15.73	Jul 1988	.07	Feb 1989	118.2	75.2	31.4	13.9	33.82	36.56	40.07	42.74	45.12	47.42	49.79	52.42	55.61	60.24	64.25

+ 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: KISSIMMEE 2, FL

COOP ID: 084625

Climate Division: FL 4

NWS Call Sign:

Elevation: 60 Feet

Lat: 28° 17N

Lon: 81° 25W

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

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NWS Call Sign:

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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	3/15	3/06	2/27	2/21	2/15	2/10	2/03	1/27	1/16
32	2/26	2/17	2/10	2/04	1/30	1/24	1/18	1/09	0/00
28	2/09	1/28	1/17	1/03	0/00	0/00	0/00	0/00	0/00
24	1/15	12/30	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	11/27	12/07	12/15	12/21	12/27	1/02	1/08	1/16	1/28
32	12/15	12/23	12/29	1/03	1/08	1/13	1/19	1/27	0/00
28	12/28	1/09	1/20	2/03	0/00	0/00	0/00	0/00	0/00
24	1/09	1/26	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	339	322	313	306	299	293	285	275
32	>365	>365	>365	347	338	330	324	317	307
28	>365	>365	>365	>365	>365	>365	>365	>365	331
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 4 NWS Call Sign: Elevation: 60 Feet Lat: 28°17N Lon: 81°25W

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	222	156	86	17	0	0	0	0	0	4	49	160	694
60	144	79	28	2	0	0	0	0	0	0	13	78	344
57	100	45	12	0	0	0	0	0	0	0	4	43	204
55	74	28	6	0	0	0	0	0	0	0	2	28	138
50	31	8	0	0	0	0	0	0	0	0	0	8	47
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	857	811	1030	1136	1348	1449	1541	1549	1452	1317	1070	916	14476
55	218	195	323	446	635	759	828	836	762	604	382	231	6219
57	182	155	267	386	573	699	766	774	702	542	324	185	5555
60	133	106	190	298	480	609	673	681	612	449	243	127	4601
65	41	43	93	163	325	459	518	526	462	299	129	53	3111
70	28	13	30	65	176	309	363	371	312	163	53	16	1899

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	684	683	860	944	1137	1230	1316	1317	1230	1096	877	732	684	1367	2227	3171	4308	5538	6854	8171	9401	10497	11374	12106
45	532	538	705	794	982	1080	1161	1162	1080	941	727	577	532	1070	1775	2569	3551	4631	5792	6954	8034	8975	9702	10279
50	387	397	550	644	827	930	1006	1007	930	786	577	430	387	784	1334	1978	2805	3735	4741	5748	6678	7464	8041	8471
55	253	267	397	494	672	780	851	852	780	631	431	289	253	520	917	1411	2083	2863	3714	4566	5346	5977	6408	6697
60	148	156	256	346	517	630	696	697	630	477	288	172	148	304	560	906	1423	2053	2749	3446	4076	4553	4841	5013
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	443	444	572	641	790	858	918	924	867	768	593	471	443	887	1459	2100	2890	3748	4666	5590	6457	7225	7818	8289

(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