

Climatology of the United States

No. 20

1971-2000

Station: KEY WEST INTL AP, FL

COOP ID: 084570

Climate Division: FL 7

NWS Call Sign: EYW

Elevation: 4 Feet

Lat: 24° 33N

Lon: 81° 45W

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	75.3	65.2	70.3	86	1991	29	76.8	1974	41	1981	13	61.3	1981	24	172	.0	.0	31.0	.0	.0	.0
Feb	75.9	65.7	70.8	85+	1991	26	75.9	1982	45+	1996	18	63.1	1978	18	183	.0	.0	28.3	.0	.0	.0
Mar	78.8	68.8	73.8	88+	1994	28	77.5	1997	47	1986	3	69.7	1983	6	277	.0	.0	31.0	.0	.0	.0
Apr	81.9	72.1	77.0	90+	1991	26	80.8	1982	48	1987	2	71.2	1987	0	361	.0	.1	30.0	.0	.0	.0
May	85.4	75.9	80.7	91+	1995	18	83.5	1995	64+	1992	9	77.8	1992	0	485	.0	.8	31.0	.0	.0	.0
Jun	88.1	78.7	83.4	94+	1952	15	85.3	1994	68	1961	28	80.7	1976	0	552	.0	7.4	30.0	.0	.0	.0
Jul	89.4	79.6	84.5	95	1951	23	85.9	1993	69	1952	17	82.9	1984	0	604	.0	15.2	31.0	.0	.0	.0
Aug	89.5	79.2	84.4	98	1997	12	85.6	1990	68	1952	11	83.0	1977	0	600	.0	16.0	31.0	.0	.0	.0
Sep	88.2	78.5	83.4	94+	1951	4	85.1	1989	69	1985	17	81.5	1984	0	550	.0	7.6	30.0	.0	.0	.0
Oct	84.7	75.7	80.2	93	1962	5	82.1	1985	60	1957	28	77.1	1987	0	473	.0	.5	31.0	.0	.0	.0
Nov	80.6	71.9	76.3	89	1988	5	80.6	1986	49	1959	30	73.9	1981	0	340	.0	.0	30.0	.0	.0	.0
Dec	76.7	67.3	72.0	88	1948	22	76.2	1971	44+	1989	24	67.3	1989	14	233	.0	.0	31.0	.0	.0	.0
Ann	82.9	73.2	78.1	98	Aug 1997	12	85.9	Jul 1993	41	Jan 1981	13	61.3	Jan 1981	62	4830	.0	47.6	365.3	.0	.0	.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

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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	Median	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	2.22	1.12	6.42	1983	22	17.64	1983	.00	1990	6.5	3.6	1.0	.5	.02	.10	.32	.59	.94	1.36	1.90	2.62	3.66	5.47	7.31
Feb	1.51	1.36	2.54	1966	22	4.87	1998	.11	1995	5.6	3.0	.9	.4	.15	.26	.47	.68	.90	1.16	1.46	1.84	2.36	3.23	4.07
Mar	1.86	1.46	5.26	1987	6	9.69	1987	.00	1971	5.0	3.0	1.3	.4	.04	.16	.40	.66	.96	1.31	1.73	2.26	3.01	4.28	5.55
Apr	2.06	1.60	6.19	1985	12	10.60	1985	.16	1973	4.7	2.9	1.2	.6	.17	.30	.57	.86	1.17	1.53	1.96	2.50	3.25	4.51	5.74
May	3.48	2.65	7.20	1960	30	10.10	1977	.55	1981	7.6	4.4	2.1	1.1	.49	.78	1.28	1.76	2.27	2.82	3.47	4.25	5.31	7.04	8.71
Jun	4.57	3.54	5.14	1992	25	14.43	1972	.33	1994	11.0	6.6	3.0	1.3	.54	.90	1.54	2.18	2.86	3.61	4.49	5.58	7.06	9.49	11.85
Jul	3.27	3.24	3.05	1970	31	6.90	1997	.44	1993	11.7	6.5	2.1	.8	.80	1.11	1.58	2.01	2.43	2.87	3.37	3.96	4.73	5.95	7.10
Aug	5.40	4.17	3.29	1977	29	10.43	1977	2.23	1991	14.5	9.0	3.5	1.6	1.88	2.39	3.13	3.76	4.36	4.97	5.64	6.42	7.42	8.97	10.39
Sep	5.45	5.43	6.06	1948	21	13.00	1994	2.25	1983	15.6	9.7	3.4	1.3	2.33	2.82	3.51	4.07	4.60	5.14	5.72	6.38	7.21	8.49	9.64
Oct	4.34	3.08	6.49	1971	12	12.55	1999	.74	1972	10.4	6.4	2.4	1.0	.60	.95	1.57	2.18	2.81	3.50	4.31	5.30	6.63	8.81	10.92
Nov	2.64	1.26	22.75	1980	11	27.67	1980	.00	1995	6.5	3.5	1.1	.6	.01	.09	.32	.63	1.03	1.54	2.20	3.08	4.37	6.66	9.01
Dec	2.14	1.64	6.66	1986	8	11.18	1986	.07	1981	6.5	3.2	1.0	.6	.08	.18	.41	.69	1.02	1.41	1.91	2.55	3.46	5.05	6.65
Ann	38.94	38.26	22.75	Nov 1980	11	27.67	Nov 1980	.00+	Nov 1995	105.6	61.8	23.0	10.2	25.96	28.41	31.58	34.01	36.19	38.30	40.50	42.94	45.91	50.26	54.05

+ 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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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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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	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
32	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
28	0/00	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	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
32	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
28	0/00	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	>365	>365	>365
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

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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	24	18	6	0	0	0	0	0	0	0	0	14	62
60	15	5	0	0	0	0	0	0	0	0	0	1	21
57	7	1	0	0	0	0	0	0	0	0	0	0	8
55	3	0	0	0	0	0	0	0	0	0	0	0	3
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1185	1087	1296	1349	1508	1542	1627	1622	1541	1494	1328	1239	16818
55	473	443	583	659	795	852	914	909	851	781	638	527	8425
57	412	388	521	599	733	792	852	847	791	719	578	466	7698
60	323	306	429	509	640	702	759	754	701	626	488	375	6612
65	172	183	277	361	485	552	604	600	550	473	340	233	4830
70	81	80	142	213	330	402	449	444	401	316	193	107	3158

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	945	903	1058	1119	1268	1314	1389	1384	1309	1254	1094	1005	945	1848	2906	4025	5293	6607	7996	9380	10689	11943	13037	14042
45	790	758	903	969	1113	1164	1234	1229	1159	1099	944	850	790	1548	2451	3420	4533	5697	6931	8160	9319	10418	11362	12212
50	635	613	748	819	958	1014	1079	1074	1009	944	794	695	635	1248	1996	2815	3773	4787	5866	6940	7949	8893	9687	10382
55	480	468	593	669	803	864	924	919	859	789	644	541	480	948	1541	2210	3013	3877	4801	5720	6579	7368	8012	8553
60	329	328	438	519	648	714	769	764	709	634	494	388	329	657	1095	1614	2262	2976	3745	4509	5218	5852	6346	6734
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	635	614	748	816	952	975	1024	1020	974	938	794	695	635	1249	1997	2813	3765	4740	5764	6784	7758	8696	9490	10185

(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 are 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.

- a. Temperature/ Precipitation Tables
 1. 1971-2000 Monthly Normals
 2. Cooperative Summary of the Day
 3. National Weather Service station records
 4. 1971-2000 serially complete daily data
- b. Degree Day Table
 1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
 2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data
- c. Snow Tables
 1. Snow Climatology
 2. Cooperative Summary of the Day
- d. 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