

Climatography of the United States

No. 20

1971-2000

Station: FARMERS 2 S, KY

COOP ID: 152791

Climate Division: KY 4

NWS Call Sign:

Elevation: 680 Feet Lat: 38°07N Lon: 83°33W

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	41.4	22.0	31.7	80	1943	24	41.1	1998	-28	1963	28	16.6	1977	1033	0	.0	.0	8.1	7.6	25.0	2.0
Feb	46.7	24.2	35.5	81	1932	10	42.8	1976	-19	1934	27	20.3	1978	829	0	.0	.0	11.8	4.6	20.8	1.3
Mar	56.9	31.9	44.4	89	1998	31	52.1	1973	-9	1960	6	37.8	1978	639	0	.0	.0	21.8	.8	16.9	.1
Apr	67.4	40.3	53.9	93	1942	30	60.0	1981	16	1964	1	49.2	1997	343	8	.0	.2	27.8	@	6.9	.0
May	76.3	49.9	63.1	95+	1996	20	69.8	1991	25	1966	10	58.2	1989	144	85	.0	.8	30.9	.0	.8	.0
Jun	84.0	58.8	71.4	104	1936	29	75.3	1994	35	1966	1	67.2	1972	16	207	.1	5.7	30.0	.0	.0	.0
Jul	87.8	63.3	75.6	105+	1999	31	80.9	1999	43+	1947	24	72.2	1979	0	328	.4	10.8	31.0	.0	.0	.0
Aug	86.7	61.7	74.2	106	1936	19	80.2	1995	35	1986	30	69.3	1992	6	290	.2	9.6	31.0	.0	.0	.0
Sep	80.4	54.5	67.5	103	1932	1	72.7	1998	29+	1942	29	63.1	1974	48	121	.0	3.3	30.0	.0	.1	.0
Oct	69.3	42.4	55.9	94	1953	1	62.3+	1984	13	1962	27	48.5	1988	309	25	.0	@	30.2	.0	5.2	.0
Nov	57.4	34.5	46.0	85	1948	5	53.1	1985	0	1950	25	38.5	1976	573	0	.0	.0	20.7	.2	13.3	.0
Dec	46.5	26.6	36.6	79	1982	4	45.1	1971	-24+	1989	24	21.2	1989	881	0	.0	.0	12.4	4.0	21.6	.5
Ann	66.7	42.5	54.7	106	Aug 1936	19	80.9	Jul 1999	-28	Jan 1963	28	16.6	Jan 1977	4821	1064	.7	30.4	285.7	17.2	110.6	3.9

+ 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: 1932-2001

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

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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: FARMERS 2 S, KY

COOP ID: 152791

Climate Division: KY 4

NWS Call Sign:

Elevation: 680 Feet Lat: 38°07N

Lon: 83°33W

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	3.40	3.02	2.95	1945	1	6.77	1995	.62	1981	13.2	7.5	2.3	.6	1.00	1.33	1.81	2.23	2.64	3.06	3.53	4.08	4.79	5.91	6.94
Feb	3.27	3.15	2.73	1989	14	9.71	1989	.62	1977	11.9	6.4	2.2	.7	1.12	1.43	1.88	2.26	2.63	3.01	3.42	3.90	4.51	5.46	6.33
Mar	4.07	3.59	3.11	1997	2	11.12	1997	1.09	1983	12.8	8.4	2.7	.9	1.30	1.69	2.26	2.75	3.22	3.71	4.24	4.87	5.67	6.93	8.09
Apr	3.91	3.91	2.95	1972	22	8.74	1972	1.25	1985	12.4	8.2	2.6	.7	1.52	1.88	2.39	2.82	3.23	3.64	4.09	4.61	5.27	6.28	7.20
May	4.86	4.49	3.60	1996	6	12.49	1996	2.12	1977	12.8	8.9	3.5	1.1	1.83	2.29	2.94	3.48	3.99	4.52	5.09	5.75	6.59	7.89	9.07
Jun	4.55	4.39	3.25	2000	18	8.40	1998	.81	1988	11.4	8.1	3.3	1.0	1.56	1.99	2.62	3.15	3.66	4.18	4.75	5.42	6.28	7.60	8.82
Jul	5.60	5.48	3.80	1965	23	10.74	2000	1.90	1999	10.8	8.4	4.1	1.8	2.44	2.94	3.65	4.22	4.75	5.29	5.87	6.53	7.37	8.64	9.79
Aug	3.78	3.60	4.18	1972	4	9.02	1974	1.13	1971	8.6	6.2	2.7	1.0	1.10	1.46	2.00	2.47	2.93	3.40	3.92	4.54	5.34	6.59	7.76
Sep	3.23	2.95	2.99	1996	17	7.61	1975	.19	1998	8.6	5.2	2.0	1.0	.72	1.01	1.49	1.91	2.34	2.80	3.31	3.92	4.73	6.01	7.22
Oct	3.16	2.71	3.89	1977	2	7.30	1984	.54	1992	9.5	6.1	2.2	.8	.94	1.24	1.69	2.08	2.46	2.85	3.28	3.80	4.46	5.49	6.45
Nov	3.47	3.23	3.36	1988	20	8.03	1988	.50+	1981	11.1	7.1	2.2	.7	.87	1.20	1.70	2.15	2.59	3.06	3.58	4.19	5.00	6.27	7.46
Dec	4.03	3.46	3.87	1978	9	11.41	1978	1.53	1985	13.4	7.6	2.5	.8	1.37	1.75	2.31	2.78	3.23	3.70	4.21	4.80	5.56	6.74	7.83
Ann	47.33	47.04	4.18	Aug 1972	4	12.49	May 1996	.19	Sep 1998	136.5	88.1	32.3	11.1	35.39	37.75	40.74	43.00	44.99	46.91	48.88	51.05	53.67	57.45	60.70

+ 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: 1932-2001

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

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Climate Division: KY 4

NWS Call Sign:

Elevation: 680 Feet

Lat: 38°07N

Lon: 83°33W

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	3.9	2.0	1	#	7.0	1980	31	16.0	1980	12	1996	8	5	1977	2.0	1.0	.3	.1	.0	2.7	.5	.1	.0
Feb	2.1	1.5	1	#	6.0	1971	9	8.5	1971	12	1998	6	5	1985	1.5	.5	.1	.1	.0	1.0	.3	.2	.0
Mar	.7	.0	#	#	6.0	1980	2	6.0	1980	10	1993	14	1	1993	.4	.3	.2	.1	.0	.4	.3	.1	@
Apr	#	.0	#	0	#	1974	9	#+	1974	#+	1974	9	#+	1974	.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	1	1993	31	#	1993	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.1	.0	#	0	2.0	1976	29	2.0	1976	2	1976	29	#+	1997	.1	@	.0	.0	.0	@	.0	.0	.0
Dec	1.0	.0	#	#	3.5	1992	1	3.6	1997	5	1989	27	2	1989	1.7	.8	.1	.0	.0	.8	.1	.0	.0
Ann	7.8	3.5	N/A	N/A	7.0	Jan 1980	31	16.0	Jan 1980	12+	Feb 1998	6	5+	Feb 1985	5.7	2.6	.7	.3	.0	4.9	1.2	.4	@

+ 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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Elevation: 680 Feet

Lat: 38°07N

Lon: 83°33W

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	5/20	5/15	5/12	5/09	5/06	5/04	5/01	4/27	4/22
32	5/10	5/05	5/01	4/27	4/24	4/21	4/17	4/13	4/08
28	4/28	4/23	4/19	4/16	4/13	4/10	4/07	4/03	3/29
24	4/16	4/10	4/06	4/02	3/30	3/26	3/23	3/18	3/12
20	4/08	3/31	3/25	3/21	3/16	3/12	3/07	3/02	2/22
16	3/19	3/13	3/08	3/03	2/27	2/24	2/19	2/14	2/08
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	9/19	9/24	9/28	10/01	10/04	10/07	10/10	10/14	10/19
32	9/30	10/06	10/09	10/13	10/16	10/19	10/22	10/25	10/31
28	10/08	10/15	10/20	10/24	10/28	11/01	11/05	11/10	11/17
24	10/20	10/27	11/01	11/05	11/09	11/13	11/18	11/23	11/30
20	11/01	11/08	11/13	11/18	11/22	11/26	12/01	12/06	12/14
16	11/09	11/19	11/27	12/03	12/09	12/15	12/21	12/29	1/08
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	171	164	158	154	150	146	141	136	129
32	199	191	184	179	174	169	163	157	148
28	221	213	207	202	197	192	187	181	173
24	251	242	235	229	224	219	213	206	197
20	278	268	261	255	250	245	239	232	222
16	312	300	293	286	281	275	269	262	252

* 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	1033	829	639	343	144	16	0	6	48	309	573	881	4821
60	878	689	492	216	70	3	0	0	13	195	427	731	3714
57	790	611	406	153	40	1	0	0	5	140	345	645	3136
55	733	559	352	117	26	0	0	0	3	109	292	587	2778
50	589	431	234	51	8	0	0	0	0	51	180	449	1993
32	194	109	21	0	0	0	0	0	0	0	7	113	444

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	184	204	405	655	964	1181	1351	1307	1063	740	424	254	8732
55	10	10	24	82	278	491	638	594	376	136	20	15	2674
57	5	7	16	58	230	432	576	532	318	105	12	11	2302
60	0	0	9	31	167	344	483	439	236	66	4	5	1784
65	0	0	0	8	85	207	328	290	121	25	0	0	1064
70	0	0	0	1	33	98	182	158	45	7	0	0	524

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	56	91	225	435	723	945	1105	1065	828	503	236	99	56	147	372	807	1530	2475	3580	4645	5473	5976	6212	6311
45	26	46	138	304	568	795	950	910	678	359	149	50	26	72	210	514	1082	1877	2827	3737	4415	4774	4923	4973
50	7	17	72	194	418	645	795	755	528	234	83	24	7	24	96	290	708	1353	2148	2903	3431	3665	3748	3772
55	1	3	37	111	276	495	640	600	383	132	40	8	1	4	41	152	428	923	1563	2163	2546	2678	2718	2726
60	0	0	14	53	164	351	485	445	251	62	11	0	0	0	14	67	231	582	1067	1512	1763	1825	1836	1836
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	39	66	163	287	466	629	751	717	544	327	151	59	39	105	268	555	1021	1650	2401	3118	3662	3989	4140	4199

(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