

Climatography of the United States

No. 20

1971-2000

Station: SCOTTSVILLE 3 SSW, KY

COOP ID: 157215

Climate Division: KY 2

NWS Call Sign:

Elevation: 850 Feet

Lat: 36°44N

Lon: 86°13W

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	43.5	27.8	35.7	77+	1952	1	44.4	1989	-20	1963	24	20.7	1977	909	0	.0	.0	10.8	5.8	20.2	.8
Feb	50.1	31.7	40.9	81	1982	23	48.8	1976	-10+	1951	3	26.2	1978	675	0	.0	.0	15.0	3.1	15.4	.2
Mar	60.0	39.8	49.9	86+	1982	19	56.2	1973	0	1960	5	43.6	1996	475	6	.0	.0	25.3	.4	9.3	.0
Apr	69.5	47.8	58.7	89+	1986	30	64.0	1981	20	1982	7	53.0	1983	216	25	.0	.0	29.0	.0	2.2	.0
May	76.2	56.5	66.4	94	1962	18	72.5	1987	31+	1966	10	61.8	1997	82	123	.0	.1	31.0	.0	.0	.0
Jun	82.9	64.0	73.5	105	1952	30	75.9	1984	40	1948	1	68.8	1974	4	256	.0	2.8	30.0	.0	.0	.0
Jul	86.3	68.0	77.2	108+	1952	28	81.1	1986	50+	1962	27	74.2	1971	0	376	.2	9.4	31.0	.0	.0	.0
Aug	85.4	66.6	76.0	102+	1962	19	80.7	1983	45	1950	22	71.1	1992	2	342	@	8.3	31.0	.0	.0	.0
Sep	79.2	60.7	70.0	104+	1954	5	75.9	1998	31	1949	30	64.8	1974	33	181	.0	3.2	30.0	.0	.0	.0
Oct	69.4	49.9	59.7	93	1951	5	67.3	1984	22+	1952	29	53.0	1976	215	49	.0	.0	30.6	.0	1.1	.0
Nov	57.1	40.8	49.0	83	1971	1	57.1	1985	-6	1950	25	39.1	1976	485	4	.0	.0	22.2	.1	7.4	.0
Dec	47.4	32.0	39.7	77	1982	3	50.0	1984	-15	1989	22	27.9	1989	785	0	.0	.0	14.4	2.9	16.3	.3
Ann	67.3	48.8	58.1	108+	Jul 1952	28	81.1	Jul 1986	-20	Jan 1963	24	20.7	Jan 1977	3881	1362	.2	23.8	300.3	12.3	71.9	1.3

+ 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/normals/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

050-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: SCOTTSVILLE 3 SSW, KY

COOP ID: 157215

Climate Division: KY 2

NWS Call Sign:

Elevation: 850 Feet Lat: 36°44N

Lon: 86°13W

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	4.28	4.30	3.30	1999	23	9.91	1999	.61	1986	10.6	7.7	2.8	1.1	1.23	1.64	2.25	2.78	3.30	3.84	4.44	5.14	6.06	7.49	8.82
Feb	4.44	3.62	4.15	1984	11	11.43	1989	1.37	1978	9.5	7.5	2.8	1.0	1.63	2.05	2.65	3.15	3.63	4.12	4.65	5.26	6.05	7.26	8.38
Mar	5.29	4.77	5.17	1975	12	14.00	1975	2.16	1983	11.5	9.0	3.6	1.3	1.90	2.40	3.12	3.72	4.30	4.89	5.53	6.28	7.23	8.70	10.05
Apr	4.20	3.84	3.87	1968	4	9.17	1983	1.12	1976	10.3	8.1	2.8	.9	1.32	1.71	2.31	2.81	3.30	3.81	4.37	5.02	5.87	7.18	8.40
May	5.51	4.99	3.49	1984	7	13.86	1983	2.04	1977	11.1	8.8	3.9	1.4	2.31	2.81	3.51	4.09	4.64	5.19	5.78	6.46	7.32	8.64	9.83
Jun	4.70	4.21	9.68	1969	23	13.87	1998	.77	1991	9.6	7.4	3.1	1.5	1.12	1.56	2.25	2.86	3.47	4.11	4.84	5.70	6.82	8.61	10.29
Jul	4.11	3.86	3.02	1950	13	8.20	1971	.55	1997	9.0	7.1	2.9	1.0	1.50	1.89	2.44	2.91	3.35	3.80	4.30	4.87	5.60	6.72	7.75
Aug	3.46	2.69	3.16	1970	12	8.23	1978	.95	1999	8.1	5.8	2.2	.9	.98	1.31	1.81	2.24	2.66	3.10	3.59	4.17	4.91	6.08	7.17
Sep	4.07	3.42	3.75	1979	14	11.94	1979	1.10	1983	7.7	5.7	3.0	1.2	.83	1.21	1.80	2.35	2.90	3.49	4.16	4.96	6.01	7.71	9.31
Oct	3.36	3.14	3.46	1999	9	7.52	1984	.31	1987	7.1	5.4	2.3	1.0	.78	1.09	1.58	2.02	2.46	2.93	3.45	4.07	4.89	6.19	7.41
Nov	4.60	4.37	4.03	1973	27	9.69	1973	.92	1976	9.6	7.2	3.3	1.2	1.60	2.03	2.66	3.20	3.71	4.23	4.80	5.47	6.32	7.65	8.86
Dec	5.03	4.60	5.11	1978	8	14.45	1990	1.43	1985	10.6	8.0	3.3	1.4	1.40	1.88	2.60	3.23	3.85	4.49	5.21	6.05	7.15	8.87	10.47
Ann	53.05	51.41	9.68	Jun 1969	23	14.45	Dec 1990	.31	Oct 1987	114.7	87.7	36.0	13.9	39.69	42.33	45.68	48.21	50.44	52.58	54.79	57.22	60.15	64.38	68.01

+ 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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COOP ID: 157215

Climate Division: KY 2

NWS Call Sign:

Elevation: 850 Feet

Lat: 36°44N

Lon: 86°13W

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	4.1	2.0	1	#	6.0	1981	30	16.0	1978	8	1978	20	3	1978	2.0	1.7	.7	.1	.0	5.1	2.9	1.1	.0
Feb	4.0	2.3	#	#	7.0	1979	7	19.5	1979	9	1986	14	3	1985	1.7	1.5	.6	.2	.0	3.8	2.0	.8	.0
Mar	1.1	.0	#	#	5.0	1996	19	7.0	1996	5	1996	20	1	1996	.6	.5	.2	@	.0	.6	.2	.1	.0
Apr	.1	.0	#	0	1.0	1971	7	1.0+	1983	#+	1983	18	#+	1983	.1	.1	.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	#	1993	31	#+	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.1	.0	#	0	1.0	1971	23	2.0	1976	1	1977	27	#+	1997	.1	.1	.0	.0	.0	.1	.0	.0	.0
Dec	1.0	.5	#	#	3.0	1973	20	5.0	1997	4	1997	30	1	1989	.8	.7	.1	.0	.0	.9	.1	.0	.0
Ann	10.4	4.8	N/A	N/A	7.0	Feb 1979	7	19.5	Feb 1979	9	Feb 1986	14	3+	Feb 1985	5.3	4.6	1.6	.3	.0	10.5	5.2	2.0	.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: KY 2

NWS Call Sign:

Elevation: 850 Feet

Lat: 36° 44N

Lon: 86° 13W

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	4/29	4/25	4/21	4/18	4/15	4/13	4/10	4/06	4/01
32	4/19	4/15	4/13	4/10	4/08	4/06	4/04	4/02	3/29
28	4/14	4/08	4/04	4/01	3/29	3/25	3/22	3/18	3/12
24	4/04	3/28	3/23	3/19	3/15	3/11	3/07	3/02	2/23
20	3/21	3/14	3/09	3/04	2/28	2/24	2/20	2/15	2/08
16	3/07	3/01	2/24	2/20	2/16	2/12	2/08	2/03	1/27
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	10/03	10/07	10/10	10/13	10/16	10/18	10/21	10/24	10/28
32	10/11	10/17	10/21	10/24	10/28	10/31	11/03	11/07	11/13
28	10/28	11/02	11/05	11/08	11/11	11/13	11/16	11/20	11/24
24	11/03	11/10	11/14	11/18	11/22	11/26	11/30	12/04	12/10
20	11/17	11/23	11/28	12/02	12/06	12/10	12/14	12/19	12/26
16	11/23	12/02	12/08	12/13	12/17	12/22	12/27	1/02	1/10
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	199	193	189	186	183	179	176	172	167
32	219	213	209	205	202	198	194	190	184
28	247	240	235	230	226	222	218	213	206
24	277	268	262	256	251	246	240	234	225
20	303	295	290	285	280	275	271	265	257
16	331	320	313	308	302	297	291	285	276

* 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: KY 2

NWS Call Sign:

Elevation: 850 Feet Lat: 36° 44N Lon: 86° 13W

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	909	675	475	216	82	4	0	2	33	215	485	785	3881
60	764	542	335	115	30	0	0	0	8	121	349	638	2902
57	676	463	260	71	14	0	0	0	3	80	274	551	2392
55	619	413	216	48	8	0	0	0	1	57	230	494	2086
50	483	296	127	14	1	0	0	0	0	21	137	363	1442
32	140	45	4	0	0	0	0	0	0	0	5	67	261

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	253	294	558	800	1064	1242	1399	1363	1138	857	514	305	9787
55	20	18	57	157	359	552	686	650	449	201	48	19	3216
57	15	12	39	120	303	492	624	588	391	161	33	14	2792
60	10	7	21	75	226	403	531	495	306	110	18	8	2210
65	0	0	6	25	123	256	376	342	181	49	4	0	1362
70	0	0	0	6	52	127	226	200	87	16	0	0	714

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	93	166	340	561	815	1017	1167	1132	919	624	316	142	93	259	599	1160	1975	2992	4159	5291	6210	6834	7150	7292
45	45	91	225	421	660	867	1012	977	769	473	206	75	45	136	361	782	1442	2309	3321	4298	5067	5540	5746	5821
50	23	45	135	289	505	717	857	822	619	329	125	36	23	68	203	492	997	1714	2571	3393	4012	4341	4466	4502
55	5	18	70	178	355	567	702	667	469	208	63	10	5	23	93	271	626	1193	1895	2562	3031	3239	3302	3312
60	0	3	34	97	218	417	547	512	328	110	25	2	0	3	37	134	352	769	1316	1828	2156	2266	2291	2293
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	46	88	199	345	524	701	816	789	612	378	173	70	46	134	333	678	1202	1903	2719	3508	4120	4498	4671	4741

(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