

Climatology of the United States

No. 20

1971-2000

Station: LOVELACEVILLE, KY

COOP ID: 154967

Climate Division: KY 1

NWS Call Sign:

Elevation: 370 Feet Lat: 36° 58N Lon: 88° 50W

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	43.3	24.8	34.1	77	1950	25	43.4	1990	-23+	1984	21	20.7	1977	960	0	.0	.0	10.2	5.6	23.2	1.1
Feb	49.8	28.5	39.2	80	1962	13	47.0	1976	-15	1951	2	25.6	1978	725	0	.0	.0	15.1	2.6	17.8	.3
Mar	60.2	36.9	48.6	85+	1986	31	54.8	1976	-8	1960	5	42.5	1996	513	2	.0	.0	25.5	.3	11.7	.0
Apr	70.6	45.5	58.1	90+	1989	27	63.7	1981	20+	1983	19	50.9	1983	230	21	.0	.1	29.3	.0	3.2	.0
May	78.5	54.9	66.7	96	1953	26	71.8	1987	30	1976	4	62.4	1997	76	128	.0	1.8	31.0	.0	.1	.0
Jun	86.6	63.1	74.9	104+	1988	23	78.7	1971	42+	1993	1	70.8	1974	2	298	.3	11.4	30.0	.0	.0	.0
Jul	89.9	67.2	78.6	104+	1990	9	82.7	1980	47+	1971	31	75.8	1971	0	420	1.2	19.1	31.0	.0	.0	.0
Aug	88.4	65.0	76.7	105	1964	4	81.5	1980	44	1986	29	72.9	1992	1	364	.9	14.7	31.0	.0	.0	.0
Sep	81.8	57.9	69.9	104	1954	5	74.5	1998	31	1949	30	64.0	1974	34	178	.1	5.9	30.0	.0	.1	.0
Oct	71.7	46.0	58.9	96	1953	2	64.6	1971	17	1952	29	53.4	1988	218	26	.0	.3	30.7	.0	3.2	.0
Nov	57.8	37.5	47.7	85	1987	1	53.7	1985	-3	1950	25	38.5	1976	523	2	.0	.0	23.3	.1	11.3	.0
Dec	47.0	29.1	38.1	78+	1982	2	46.9	1971	-11+	1989	22	27.4	2000	837	0	.0	.0	13.7	2.9	20.0	.3
Ann	68.8	46.4	57.6	105	Aug 1964	4	82.7	Jul 1980	-23+	Jan 1984	21	20.7	Jan 1977	4119	1439	2.5	53.3	300.8	11.5	90.6	1.7

+ 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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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: LOVELACEVILLE, KY

COOP ID: 154967

Climate Division: KY 1

NWS Call Sign:

Elevation: 370 Feet Lat: 36°58N

Lon: 88°50W

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	3.82	3.58	7.20	2000	3	10.17	2000	.75	1983	9.5	6.4	2.4	1.0	.94	1.29	1.85	2.35	2.84	3.36	3.93	4.62	5.53	6.95	8.29
Feb	4.06	3.65	5.34	1990	15	13.90	1989	1.03	1996	8.7	6.3	2.6	1.1	1.06	1.44	2.03	2.55	3.06	3.60	4.20	4.91	5.83	7.29	8.65
Mar	4.43	4.16	6.75	1964	9	11.18	1975	1.89	1971	10.7	8.1	3.0	1.1	1.77	2.17	2.75	3.23	3.68	4.14	4.64	5.21	5.94	7.05	8.06
Apr	5.01	4.72	3.62	1985	27	11.63	1983	1.88	1971	10.7	7.7	3.6	1.5	1.80	2.27	2.95	3.52	4.07	4.63	5.23	5.94	6.85	8.24	9.52
May	4.48	3.87	3.83	1957	22	9.32	1973	1.24	1994	11.0	8.0	3.1	1.2	1.72	2.13	2.73	3.22	3.69	4.17	4.69	5.29	6.05	7.23	8.30
Jun	4.29	3.90	3.35	1975	5	12.14	1998	.55	1988	9.0	6.7	2.6	1.2	1.12	1.52	2.15	2.69	3.23	3.80	4.43	5.18	6.15	7.69	9.13
Jul	4.60	4.67	6.40	1983	3	14.05	1972	.83	1993	7.5	5.8	2.8	1.5	1.31	1.74	2.40	2.98	3.54	4.12	4.77	5.54	6.53	8.09	9.53
Aug	2.93	2.67	3.85	1962	25	6.95	1982	.44	1999	6.7	4.7	2.1	.7	.56	.83	1.26	1.65	2.06	2.49	2.98	3.57	4.35	5.61	6.81
Sep	3.14	3.40	5.30	1965	11	8.28	1996	.24	1998	7.4	5.2	2.1	.9	.56	.84	1.30	1.73	2.16	2.64	3.18	3.83	4.70	6.09	7.43
Oct	3.51	3.19	4.60	1999	9	8.02	1984	.96	2000	7.1	5.0	2.7	.9	1.08	1.41	1.91	2.33	2.75	3.18	3.65	4.20	4.92	6.03	7.07
Nov	4.54	3.99	5.20	1996	8	10.50	1973	1.05	1999	9.3	7.0	3.4	1.5	1.25	1.68	2.33	2.90	3.46	4.05	4.70	5.46	6.46	8.03	9.49
Dec	4.62	3.81	4.12	1987	25	11.50	1990	.74	1976	9.8	7.0	3.2	1.3	1.10	1.53	2.20	2.81	3.41	4.04	4.75	5.60	6.71	8.48	10.14
Ann	49.43	47.89	7.20	Jan 2000	3	14.05	Jul 1972	.24	Sep 1998	107.4	77.9	33.6	13.9	35.93	38.57	41.93	44.48	46.73	48.91	51.15	53.62	56.62	60.95	64.69

+ 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

Complete documentation available from:
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Station: LOVELACEVILLE, KY

COOP ID: 154967

Climate Division: KY 1

NWS Call Sign:

Elevation: 370 Feet

Lat: 36°58N

Lon: 88°50W

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	2.3	1.0	1	#	9.0	1994	17	9.6	1994	18	1978	17	5	1978	1.3	.9	.3	@	.0	2.1	1.1	.5	.0
Feb	3.0	1.5	1	#	7.0	1993	25	13.0	1993	8	1979	10	3	1985	1.1	.8	.4	.2	.0	1.5	.5	.2	.0
Mar	.7	#	#	0	8.0	1994	9	8.6	1994	6	1994	9	#+	2000	.3	.2	.1	@	.0	.1	.1	@	.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	.2	.0	#	0	4.1	1993	30	4.1	1993	#	1993	30	#	1993	@	@	@	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.5	1996	10	.5	1996	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Dec	1.2	.0	#	#	4.0	2000	13	6.9	2000	6	1984	6	1+	2000	.9	.5	.1	.0	.0	1.3	.2	.0	.0
Ann	7.4	2.5	N/A	N/A	9.0	Jan 1994	17	13.0	Feb 1993	18	Jan 1978	17	5	Jan 1978	3.6	2.4	.9	.2	.0	5.0	1.9	.7	.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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Station: LOVELACEVILLE, KY

COOP ID: 154967

Climate Division: KY 1

NWS Call Sign:

Elevation: 370 Feet

Lat: 36° 58N

Lon: 88° 50W

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	5/08	5/03	4/29	4/26	4/23	4/20	4/17	4/14	4/09
32	4/28	4/23	4/19	4/15	4/12	4/09	4/06	4/02	3/27
28	4/15	4/11	4/08	4/05	4/02	3/31	3/28	3/24	3/20
24	4/09	4/04	3/31	3/27	3/24	3/20	3/17	3/13	3/07
20	3/30	3/23	3/17	3/12	3/08	3/03	2/26	2/21	2/13
16	3/13	3/05	2/28	2/23	2/19	2/14	2/10	2/04	1/28
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	9/28	10/02	10/04	10/06	10/08	10/10	10/12	10/15	10/19
32	10/03	10/07	10/11	10/14	10/17	10/19	10/22	10/26	10/30
28	10/11	10/17	10/22	10/25	10/29	11/02	11/06	11/10	11/16
24	10/31	11/05	11/09	11/12	11/15	11/18	11/21	11/24	11/29
20	11/03	11/09	11/14	11/17	11/21	11/24	11/28	12/02	12/08
16	11/15	11/23	11/28	12/03	12/07	12/11	12/15	12/21	12/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	184	178	174	170	167	164	160	156	151
32	207	200	195	191	187	182	178	173	166
28	231	224	218	214	209	205	200	195	187
24	258	250	245	240	235	231	226	220	212
20	282	273	267	262	257	253	247	241	233
16	320	310	302	296	290	284	278	271	261

* 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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NWS Call Sign:

Elevation: 370 Feet Lat: 36°58N Lon: 88°50W

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	960	725	513	230	76	2	0	1	34	218	523	837	4119
60	805	587	370	124	27	0	0	0	8	113	383	682	3099
57	720	510	290	77	12	0	0	0	3	69	304	596	2581
55	661	458	242	53	7	0	0	0	1	48	256	537	2263
50	519	336	144	16	1	0	0	0	0	14	157	398	1585
32	148	58	5	0	0	0	0	0	0	0	7	72	290

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	211	257	517	781	1075	1286	1443	1385	1134	831	476	258	9654
55	11	13	41	144	369	596	730	672	445	166	35	11	3233
57	8	9	27	108	312	536	668	610	387	126	23	7	2821
60	0	2	13	65	234	446	575	517	302	77	12	0	2243
65	0	0	2	21	128	298	420	364	178	26	2	0	1439
70	0	0	0	4	55	161	265	219	86	5	0	0	795

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	67	132	314	556	842	1060	1214	1160	917	598	280	105	67	199	513	1069	1911	2971	4185	5345	6262	6860	7140	7245
45	33	69	199	412	687	910	1059	1005	767	447	174	52	33	102	301	713	1400	2310	3369	4374	5141	5588	5762	5814
50	11	30	116	281	532	760	904	850	617	306	100	26	11	41	157	438	970	1730	2634	3484	4101	4407	4507	4533
55	2	10	59	168	380	610	749	695	469	191	53	6	2	12	71	239	619	1229	1978	2673	3142	3333	3386	3392
60	0	0	20	87	240	460	594	540	329	93	15	0	0	0	20	107	347	807	1401	1941	2270	2363	2378	2378
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	49	89	202	355	548	721	824	787	611	393	173	62	49	138	340	695	1243	1964	2788	3575	4186	4579	4752	4814

(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