U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: BRADFORDSVILLE, KY **COOP ID: 150940**

Climate Division: KY 2 **NWS Call Sign:** **Elevation: 660 Feet** **Lat: 37˚29N** **Lon: 85˚09W**

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	42.7	23.0	32.9	75	1999	23	41.9	1990	-30	1963	24	17.4	1977	997	0	.0	.0	9.2	6.8	24.1	2.2
Feb	48.2	25.5	36.9	82	1996	24	44.5	1990	-14+	1996	5	23.2	1978	789	0	.0	.0	13.0	3.9	20.9	1.1
Mar	58.0	33.0	45.5	85	1963	31	54.0	1973	-7	1980	3	39.1	1996	605	0	.0	.0	23.1	.6	16.8	.1
Apr	67.9	40.8	54.4	90+	1989	28	60.0	1981	19	1982	7	49.0	1997	325	6	.0	.1	28.2	.0	7.1	.0
May	76.4	50.6	63.5	95	1962	19	70.0	1991	27	1971	4	58.5	1997	139	92	.0	.5	30.9	.0	.5	.0
Jun	84.3	60.1	72.2	100+	1988	26	75.1	1984	32	1966	1	68.4	1982	8	224	.1	6.2	30.0	.0	.0	.0
Jul	88.2	64.7	76.5	105	1988	10	79.9	1993	44	1968	5	73.5	1996	0	354	.4	13.4	31.0	.0	.0	.0
Aug	87.1	62.5	74.8	105+	1988	18	79.7	1995	38+	1986	30	71.2	1992	3	306	.2	10.3	31.0	.0	.0	.0
Sep	81.3	54.8	68.1	99	1999	5	72.8	1998	32+	1993	30	63.8	1974	50	141	.0	4.4	30.0	.0	.1	.0
Oct	70.4	42.0	56.2	90	1971	1	63.3	1984	19+	1976	29	49.6	1976	300	27	.0	@	30.4	.0	6.1	.0
Nov	58.0	34.2	46.1	84+	1987	3	54.6	1985	-1	1976	30	36.6	1976	567	1	.0	.0	21.8	.2	14.4	@
Dec	47.2	27.0	37.1	78+	1982	5	46.2	1971	-17	1989	23	24.5	1989	865	0	.0	.0	13.1	3.7	21.9	.7
Ann	67.5	43.2	55.4	105+	Aug 1988	18	79.9	Jul 1993	-30	Jan 1963	24	17.4	Jan 1977	4648	1151	.7	34.9	291.7	15.2	111.9	4.1

\+ 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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1962-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	4.18	4.48	2.73	1974	10	8.35	1974	.72	1986
Feb	4.11	3.95	4.22	1989	14	13.89	1989	1.27	1978
Mar	5.22	4.54	4.07	1997	2	14.16	1997	1.35	1971
Apr	4.46	3.97	4.60	1970	28	12.80	1972	.83	1976
May	5.36	4.69	3.17	1984	7	13.59	1983	2.11	1977
Jun	4.65	4.22	3.09	1989	13	11.14	1998	1.24	1984
Jul	4.66	4.09	3.88	1971	19	11.78	1971	.93	1999
Aug	3.79	2.82	2.87	1977	14	10.11+	1977	.65	1972
Sep	3.85	3.18	4.31	1982	2	10.33	1979	.80	1978
Oct	3.13	3.22	2.66	1983	23	6.01	1983	.34	1987
Nov	4.06	3.64	3.25	1988	20	9.75	1973	.94	1976
Dec	4.78	4.47	4.01	1978	9	14.35	1978	1.27	1976
Ann	52.25	53.13	4.60	Apr 1970	28	14.35	Dec 1978	.34	Oct 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.0	7.3	2.9	1.1
Feb	11.2	6.8	2.8	1.1
Mar	12.9	8.3	3.7	1.2
Apr	12.4	8.1	3.1	1.1
May	12.3	8.6	3.7	1.3
Jun	11.3	8.0	3.5	1.2
Jul	10.4	6.7	2.6	1.4
Aug	9.2	6.3	2.6	1.0
Sep	8.9	5.3	2.6	1.1
Oct	8.9	5.6	2.1	.9
Nov	10.9	7.2	2.6	.9
Dec	12.5	7.6	3.1	1.4
Ann	132.9	85.8	35.3	13.7

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.23	1.63	2.23	2.74	3.24	3.76	4.34	5.01	5.89	7.26	8.53
Feb	1.31	1.70	2.28	2.77	3.25	3.74	4.28	4.91	5.72	6.99	8.16
Mar	1.75	2.24	2.96	3.58	4.17	4.78	5.44	6.22	7.21	8.76	10.19
Apr	1.34	1.77	2.40	2.94	3.47	4.02	4.63	5.34	6.27	7.71	9.04
May	1.90	2.40	3.13	3.75	4.34	4.94	5.60	6.36	7.35	8.86	10.25
Jun	1.67	2.11	2.74	3.27	3.78	4.30	4.86	5.52	6.36	7.65	8.84
Jul	1.23	1.67	2.35	2.94	3.52	4.13	4.82	5.62	6.67	8.33	9.87
Aug	.98	1.34	1.89	2.38	2.85	3.35	3.91	4.57	5.44	6.80	8.07
Sep	.95	1.32	1.88	2.38	2.87	3.39	3.97	4.66	5.56	6.99	8.32
Oct	.72	1.01	1.47	1.88	2.29	2.72	3.21	3.79	4.56	5.78	6.92
Nov	1.21	1.59	2.17	2.67	3.16	3.66	4.22	4.88	5.72	7.05	8.28
Dec	1.36	1.82	2.50	3.10	3.68	4.28	4.95	5.74	6.77	8.38	9.88
Ann	38.04	40.81	44.35	47.03	49.40	51.68	54.04	56.64	59.79	64.34	68.26

\+ 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: 1962-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	4.9	3.4	1	#
Feb	5.4	3.7	1	#
Mar	2.0	1.1	#	#
Apr	.1	.0	#	0
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.4	.1	#	0
Dec	2.0	1.5	#	#
Ann	14.8	9.8	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	7.5	1994	17	17.0	1978	12	1978	20	4	1978
Feb	9.7	1998	5	21.3	1998	14	1998	6	4	1998
Mar	4.1	1995	8	6.5+	1993	6	1993	14	2	1978
Apr	1.0	1982	8	1.3	1987	1	1982	8	#+	2000
May	#	1989	8	#	1989	#	1998	21	#	1998
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.5	1989	21	.5	1989	0	0	0	0	0
Nov	4.0	1977	28	5.5	1977	4	1977	28	#+	2000
Dec	5.0	1984	6	8.1	2000	4+	2000	3	1+	2000
Ann	9.7	Feb 1998	5	21.3	Feb 1998	14	Feb 1998	6	4+	Feb 1998

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.8	1.4	.6	.1	.0
Feb	3.6	1.7	.5	.3	.0
Mar	1.8	.7	.2	.0	.0
Apr	.2	.1	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.1	.0	.0	.0	.0
Nov	.6	.1	@	.0	.0
Dec	2.4	.7	.1	@	.0
Ann	12.5	4.7	1.4	.4	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	5.3	2.3	.8	.1
Feb	3.7	1.3	1.0	.1
Mar	1.2	.6	.2	.0
Apr	@	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.2	@	.0	.0
Dec	1.8	.3	.0	.0
Ann	12.2	4.5	2.0	.2

+ 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	5/19	5/15	5/11	5/08	5/06	5/03	4/30	4/27	4/22
32	5/10	5/05	4/30	4/27	4/24	4/21	4/17	4/13	4/07
28	4/23	4/19	4/16	4/13	4/10	4/08	4/05	4/02	3/28
24	4/12	4/07	4/03	3/31	3/28	3/25	3/22	3/18	3/13
20	4/01	3/25	3/20	3/15	3/11	3/06	3/02	2/25	2/17
16	3/19	3/12	3/07	3/02	2/26	2/22	2/18	2/13	2/06

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	9/26	9/30	10/02	10/04	10/06	10/08	10/10	10/13	10/16
32	9/30	10/05	10/08	10/11	10/14	10/17	10/20	10/24	10/29
28	10/10	10/16	10/19	10/22	10/25	10/28	10/31	11/04	11/09
24	10/22	10/28	11/01	11/05	11/08	11/11	11/15	11/19	11/25
20	11/02	11/09	11/14	11/18	11/22	11/26	12/01	12/06	12/13
16	11/14	11/21	11/26	11/30	12/04	12/08	12/13	12/18	12/25

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	170	164	160	156	153	150	146	142	136
32	195	188	182	177	173	168	164	158	150
28	215	209	204	201	197	194	190	186	180
24	243	236	232	228	224	220	216	211	205
20	278	271	265	260	256	251	247	241	234
16	305	296	290	285	280	276	271	265	256

***** 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.

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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	997	789	605	325	139	8	0	3	50	300	567	865	4648
60	842	649	457	195	68	1	0	0	15	188	424	710	3549
57	758	567	371	132	39	0	0	0	6	134	343	627	2977
55	699	517	317	97	25	0	0	0	3	104	291	569	2622
50	556	388	201	35	7	0	0	0	0	48	182	431	1848
32	176	76	11	0	0	0	0	0	0	0	8	99	370

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	202	211	429	671	976	1206	1377	1327	1081	750	431	257	8918
55	12	8	22	78	289	516	664	614	394	141	24	14	2776
57	9	2	14	53	240	456	602	552	337	109	16	10	2400
60	0	0	6	26	176	367	509	459	256	70	7	0	1876
65	0	0	0	6	92	224	354	306	141	27	1	0	1151
70	0	0	0	1	37	103	204	168	60	8	0	0	581

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	62	101	240	443	735	975	1134	1089	851	518	246	98	62	163	403	846	1581	2556	3690	4779	5630	6148	6394	6492
45	32	51	146	314	581	825	979	934	701	371	153	52	32	83	229	543	1124	1949	2928	3862	4563	4934	5087	5139
50	15	27	82	199	427	675	824	779	551	243	90	26	15	42	124	323	750	1425	2249	3028	3579	3822	3912	3938
55	0	7	40	112	290	525	669	624	404	141	46	8	0	7	47	159	449	974	1643	2267	2671	2812	2858	2866
60	0	0	16	54	171	377	514	469	270	67	15	0	0	0	16	70	241	618	1132	1601	1871	1938	1953	1953
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	42	77	170	298	479	650	773	735	560	351	166	66	42	119	289	587	1066	1716	2489	3224	3784	4135	4301	4367

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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