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: LONDON CORBIN AP, KY **COOP ID: 154898**

Climate Division: KY 4 **NWS Call Sign: LOZ** **Elevation: 1,188 Feet** **Lat: 37˚05N** **Lon: 84˚05W**

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	25.2	34.4	74	1972	24	44.4	1974	-25	1994	19	20.3	1977	951	0	.0	.0	10.8	6.1	22.3	1.2
Feb	49.3	28.1	38.7	81	1977	26	46.5	1990	-11	1971	1	25.3	1978	737	0	.0	.0	14.5	3.6	18.5	.4
Mar	58.5	35.7	47.1	84+	1977	15	54.7	1973	-12	1980	3	40.3	1971	557	2	.0	.0	24.0	.4	12.3	.1
Apr	67.9	43.4	55.7	90+	1995	10	60.7	1981	21	1982	7	50.8	1983	287	7	.0	.1	28.4	@	4.4	.0
May	75.5	52.5	64.0	90+	1991	31	70.7	1991	28	1963	2	59.3	1997	125	94	.0	.1	31.0	.0	.2	.0
Jun	82.5	61.0	71.8	98	1988	25	75.3	1984	34	1966	1	66.5	1972	12	215	.0	2.8	30.0	.0	.0	.0
Jul	86.0	65.5	75.8	101+	1999	31	79.5	1993	45	1961	10	71.3	1976	0	333	.2	7.7	31.0	.0	.0	.0
Aug	84.8	63.9	74.4	100	1983	21	78.6	1995	44	1986	29	69.7	1976	2	292	@	5.5	31.0	.0	.0	.0
Sep	78.8	56.9	67.9	95+	1995	1	72.3	1998	32	1983	24	62.7	1976	48	133	.0	1.8	30.0	.0	@	.0
Oct	68.6	44.3	56.5	89	1958	15	64.0	1984	18	1962	26	49.4	1976	288	22	.0	.0	30.4	.0	3.4	.0
Nov	57.5	36.2	46.9	82	1977	4	54.5	1985	2	1976	30	36.1	1976	546	1	.0	.0	21.6	.2	12.2	.0
Dec	47.9	29.1	38.5	78	1982	2	47.2	1984	-17	1962	13	27.7	1989	821	0	.0	.0	14.7	3.4	19.7	.2
Ann	66.7	45.2	56.0	101+	Jul 1999	31	79.5	Jul 1993	-25	Jan 1994	19	20.3	Jan 1977	4374	1099	.2	18.0	297.4	13.7	93.0	1.9

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1954-2001

(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	4.01	3.75	2.67	1974	10	8.53	1979	1.07	1981
Feb	3.72	3.51	3.07	1956	17	6.55	1994	1.51	1980
Mar	4.61	4.21	4.21	1963	11	10.82	1997	1.51	1986
Apr	4.01	3.91	2.75	1977	4	8.62	1977	.58	1976
May	4.69	4.38	4.08	1984	7	10.97	1984	1.09	1977
Jun	4.24	4.13	2.90	1976	25	9.47	1991	.71	1980
Jul	4.39	4.47	2.95	1967	6	10.14	1972	1.12	1974
Aug	3.36	3.44	2.44	1970	9	7.45	1977	.78	1983
Sep	3.37	3.00	3.04	1972	26	7.46	1975	.88	1978
Oct	2.80	2.47	4.78	1977	1	7.69	1977	.10	1987
Nov	3.90	3.79	3.53	1975	12	8.53	1986	.40	1976
Dec	4.31	3.74	3.55	1978	8	12.16	1990	1.18	1976
Ann	47.41	47.65	4.78	Oct 1977	1	12.16	Dec 1990	.10	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.9	7.4	2.5	.8
Feb	12.0	7.7	2.2	.8
Mar	13.5	9.1	3.1	1.0
Apr	11.8	7.8	2.8	.9
May	12.7	8.3	3.0	.9
Jun	11.0	7.5	3.2	1.1
Jul	11.2	6.8	3.0	1.2
Aug	9.1	6.1	2.5	.6
Sep	8.4	5.3	2.0	.7
Oct	7.5	4.6	1.6	.5
Nov	10.3	6.7	2.5	.9
Dec	11.2	6.9	2.8	1.0
Ann	130.6	84.2	31.2	10.4

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	1.26	1.64	2.20	2.69	3.16	3.64	4.17	4.80	5.60	6.86	8.02
Feb	1.65	1.99	2.45	2.82	3.17	3.52	3.90	4.33	4.87	5.70	6.45
Mar	1.64	2.07	2.70	3.23	3.73	4.25	4.81	5.47	6.31	7.60	8.79
Apr	1.39	1.77	2.32	2.78	3.23	3.68	4.18	4.76	5.51	6.66	7.71
May	1.93	2.36	2.96	3.46	3.93	4.40	4.91	5.50	6.25	7.38	8.42
Jun	1.31	1.72	2.32	2.83	3.33	3.85	4.41	5.08	5.94	7.28	8.52
Jul	1.52	1.93	2.54	3.05	3.54	4.04	4.59	5.22	6.04	7.31	8.47
Aug	1.36	1.67	2.10	2.46	2.80	3.15	3.52	3.95	4.49	5.32	6.08
Sep	1.09	1.41	1.88	2.28	2.67	3.07	3.51	4.02	4.68	5.71	6.66
Oct	.53	.78	1.19	1.57	1.95	2.37	2.84	3.41	4.17	5.39	6.55
Nov	1.34	1.71	2.25	2.70	3.14	3.59	4.07	4.64	5.38	6.51	7.55
Dec	1.24	1.65	2.27	2.80	3.32	3.87	4.47	5.18	6.09	7.53	8.87
Ann	34.37	36.91	40.16	42.61	44.79	46.89	49.05	51.44	54.33	58.51	62.13

\+ 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: 1954-2001
(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	5.4	3.0	1	0
Feb	4.6	3.0	1	0
Mar	1.1	#	#	0
Apr	.5	.0	#	0
May	.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	.5	.0	#	0
Dec	1.3	.4	#	0
Ann	13.4	6.4	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	12.1	1975	12	17.6	1978	12+	1978	22	5	1978
Feb	11.0	1985	12	23.5	1979	11+	1985	15	3+	1985
Mar	7.0	1993	13	7.0	1993	22+	1993	15	2	1993
Apr	6.0	1987	5	9.0	1987	4	1987	5	#	1987
May	.0	0	0	.0	0	0	0	0	#	1996
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	.0	0	0	.0	0	0	0	0	0	0
Nov	4.3	1977	27	4.4	1977	3	1977	28	#	1977
Dec	3.0	1985	20	4.7	1977	3+	1985	21	1	1989
Ann	12.1	Jan 1975	12	23.5	Feb 1979	22+	Mar 1993	15	5	Jan 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.3	2.0	.6	.1	.1
Feb	2.9	1.9	.4	.2	@
Mar	.7	.6	.1	.1	.0
Apr	.2	.2	@	@	.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	.0	.0	.0	.0	.0
Nov	.5	.1	.1	.0	.0
Dec	1.3	.6	@	.0	.0
Ann	8.9	5.4	1.2	.4	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	6.7	3.4	1.7	.2
Feb	5.6	2.5	1.2	.2
Mar	1.0	.4	.3	.1
Apr	.2	@	.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	@	@	.0	.0
Dec	1.7	.1	.0	.0
Ann	15.2	6.4	3.2	.5

+ 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	5/17	5/12	5/08	5/05	5/02	4/29	4/26	4/23	4/17
32	5/07	5/01	4/26	4/23	4/19	4/16	4/12	4/07	4/01
28	4/19	4/14	4/11	4/08	4/05	4/02	3/30	3/26	3/21
24	4/13	4/07	4/02	3/29	3/26	3/22	3/18	3/13	3/07
20	3/24	3/17	3/13	3/09	3/05	3/02	2/26	2/21	2/15
16	3/12	3/06	3/02	2/26	2/23	2/20	2/16	2/12	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	9/28	10/02	10/04	10/07	10/09	10/11	10/13	10/16	10/19
32	10/01	10/06	10/10	10/13	10/16	10/19	10/22	10/25	10/30
28	10/13	10/19	10/23	10/26	10/29	11/01	11/04	11/08	11/13
24	10/28	11/02	11/06	11/10	11/13	11/16	11/20	11/24	11/30
20	11/06	11/12	11/16	11/20	11/24	11/27	12/01	12/06	12/12
16	11/19	11/26	12/01	12/05	12/09	12/13	12/17	12/22	12/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	179	172	167	163	159	155	150	145	138
32	199	192	187	183	179	175	171	166	159
28	227	220	215	211	207	202	198	193	186
24	256	248	242	237	232	227	222	216	207
20	286	278	272	267	263	258	253	248	240
16	310	303	297	293	288	284	279	274	266

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	951	737	557	287	125	12	0	2	48	288	546	821	4374
60	800	597	413	164	56	2	0	0	13	174	405	669	3293
57	715	519	331	106	30	0	0	0	5	120	325	584	2735
55	656	466	281	75	19	0	0	0	3	91	275	526	2392
50	516	340	178	24	5	0	0	0	0	39	171	391	1664
32	154	54	10	0	0	0	0	0	0	0	7	77	302

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	226	241	478	710	992	1194	1356	1313	1076	758	452	279	9075
55	15	9	37	95	297	504	643	600	388	136	30	15	2769
57	11	6	25	66	247	444	581	538	331	103	20	11	2383
60	3	0	13	33	180	355	488	445	249	64	10	3	1843
65	0	0	2	7	94	215	333	292	133	22	1	0	1099
70	0	0	0	1	37	102	187	154	53	5	0	0	539

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	76	129	277	491	755	965	1115	1073	847	523	258	118	76	205	482	973	1728	2693	3808	4881	5728	6251	6509	6627
45	36	65	175	353	600	815	960	918	697	372	163	64	36	101	276	629	1229	2044	3004	3922	4619	4991	5154	5218
50	12	28	96	226	446	665	805	763	547	242	92	31	12	40	136	362	808	1473	2278	3041	3588	3830	3922	3953
55	1	9	43	134	304	515	650	608	402	134	42	7	1	10	53	187	491	1006	1656	2264	2666	2800	2842	2849
60	0	0	15	64	177	365	495	453	266	57	12	0	0	0	15	79	256	621	1116	1569	1835	1892	1904	1904
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	42	86	178	308	482	658	776	742	559	326	160	69	42	128	306	614	1096	1754	2530	3272	3831	4157	4317	4386

(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