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: MAYSVILLE SEWAGE PLANT, KY **COOP ID: 155243**

Climate Division: KY 3 **NWS Call Sign:** **Elevation: 515 Feet** **Lat: 38˚41N** **Lon: 83˚47W**

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	39.8	21.3	30.6	78	1950	26	40.6	1990	-25+	1994	20	15.6	1977	1069	0	.0	.0	7.3	8.7	26.4	1.6
Feb	44.6	23.4	34.0	76	1954	16	41.2	1990	-14+	1951	4	20.3	1978	869	0	.0	.0	9.7	5.6	22.7	.6
Mar	55.0	31.0	43.0	83+	1998	30	49.8	1973	1+	1980	2	35.4	1984	682	0	.0	.0	20.3	.9	19.2	.0
Apr	65.5	39.7	52.6	90+	1986	28	57.9	1981	18+	1964	2	48.4	1997	374	2	.0	.1	27.3	.0	7.0	.0
May	75.0	49.9	62.5	95	1965	26	69.0	1991	27	1966	10	57.3	1997	152	73	.0	.5	31.0	.0	.5	.0
Jun	83.2	59.6	71.4	100	1988	26	74.6	1991	37	1972	11	65.4	1972	15	207	@	4.9	30.0	.0	.0	.0
Jul	87.0	64.5	75.8	105	1988	9	79.8	1999	46	1988	1	72.6	1979	0	333	.3	10.1	31.0	.0	.0	.0
Aug	85.8	63.3	74.6	103+	1983	22	79.2	1983	39	1986	30	69.9	1992	5	301	.2	8.1	31.0	.0	.0	.0
Sep	79.7	56.3	68.0	100+	1964	11	72.3	1998	32	1949	30	63.6	1974	45	134	.0	2.7	30.0	.0	.0	.0
Oct	68.3	44.2	56.3	92	1953	1	63.5	1971	17+	1962	28	49.3	1976	295	24	.0	.0	30.3	.0	3.3	.0
Nov	55.6	35.0	45.3	84+	1987	2	52.7	1985	-1	1958	30	36.3	1976	591	0	.0	.0	19.8	.3	14.4	.0
Dec	44.8	26.6	35.7	78+	1982	6	43.5	1982	-17	1989	23	22.9	1989	909	0	.0	.0	10.7	4.6	22.9	.5
Ann	65.4	42.9	54.2	105	Jul 1988	9	79.8	Jul 1999	-25+	Jan 1994	20	15.6	Jan 1977	5006	1074	.5	26.4	278.4	20.1	116.4	2.7

\+ 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/normals/usnormals.html

(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

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	3.52	3.69	2.18	1951	4	6.79	1974	.54	1981
Feb	3.24	3.25	3.13	2000	19	7.89	1989	.54	1978
Mar	4.10	3.39	4.60	1997	1	14.22	1997	1.26	1990
Apr	3.94	3.90	2.37	1966	29	7.62	1973	1.08	1976
May	4.87	4.76	3.34	1961	8	9.94	1996	1.63	1999
Jun	3.98	4.00	3.54	1997	1	9.60	1998	.42+	1991
Jul	4.45	4.30	3.45	2001	18	7.73	1992	1.21	1974
Aug	3.79	3.55	3.66	1967	26	6.83	1979	1.64	1998
Sep	3.16	2.81	3.55	1991	5	8.48	1979	.30	1978
Oct	2.84	2.50	2.70	1955	7	8.22	1983	.58	1987
Nov	3.38	3.29	3.01	1957	19	6.38	1985	.61	1976
Dec	3.92	3.65	3.25	1991	3	8.88	1990	1.21	1976
Ann	45.19	45.48	4.60	Mar 1997	1	14.22	Mar 1997	.30	Sep 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.5	7.6	2.3	.6
Feb	10.6	6.0	2.0	.7
Mar	12.5	8.4	2.7	.9
Apr	12.2	8.5	2.7	.6
May	12.6	8.8	3.7	.9
Jun	10.9	7.6	2.4	1.0
Jul	9.6	7.3	3.0	1.2
Aug	8.9	6.0	2.8	1.1
Sep	8.4	5.3	1.8	.7
Oct	8.7	5.8	2.0	.5
Nov	11.1	7.0	2.3	.6
Dec	12.5	7.8	2.5	.8
Ann	130.5	86.1	30.2	9.6

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	1.11	1.45	1.94	2.37	2.77	3.20	3.67	4.21	4.92	6.01	7.03
Feb	.98	1.29	1.75	2.15	2.53	2.93	3.37	3.89	4.56	5.60	6.57
Mar	1.24	1.63	2.21	2.71	3.20	3.70	4.26	4.91	5.75	7.07	8.29
Apr	1.43	1.80	2.33	2.78	3.21	3.64	4.12	4.67	5.38	6.47	7.47
May	1.94	2.39	3.03	3.55	4.05	4.56	5.10	5.73	6.53	7.76	8.88
Jun	.97	1.35	1.93	2.44	2.96	3.50	4.10	4.82	5.76	7.25	8.65
Jul	1.63	2.05	2.65	3.15	3.63	4.12	4.65	5.27	6.05	7.27	8.38
Aug	1.70	2.03	2.50	2.88	3.23	3.59	3.97	4.41	4.96	5.80	6.55
Sep	.57	.85	1.31	1.74	2.18	2.66	3.20	3.86	4.73	6.13	7.47
Oct	.71	.98	1.39	1.76	2.12	2.51	2.93	3.44	4.10	5.14	6.12
Nov	1.07	1.39	1.87	2.28	2.67	3.07	3.52	4.04	4.72	5.76	6.73
Dec	1.59	1.95	2.46	2.88	3.27	3.67	4.10	4.60	5.23	6.19	7.07
Ann	34.69	36.78	39.43	41.42	43.17	44.85	46.58	48.47	50.75	54.02	56.83

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	2.7	.5	1	#	16.0	1994	17	16.0	1994	23	1994	18	14	1994	.9	.5	.3	.1	.1	1.1	.3	.0	.0
Feb	2.2	.0	1	#	7.0	1971	9	11.0	1971	9	1971	9	7	1978	.4	.3	.1	.1	.0	.6	.2	.2	.0
Mar	.7	.0	#	0	5.0	1999	15	5.5	1999	7	1978	5	2	1978	.2	.1	.1	.1	.0	.1	.1	.0	.0
Apr	#	.0	#	0	#	1992	3	#+	1992	3	1987	5	#+	1987	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	#	.0	0	0	#	1989	7	#	1989	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	#	1992	21	#+	1992	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.1	.0	#	0	2.0	1977	28	2.0	1977	2	1977	28	#+	1995	@	@	.0	.0	.0	@	.0	.0	.0
Dec	.2	#	#	#	2.0	1993	26	2.0	1993	6	1984	6	1	1984	.5	.1	.0	.0	.0	.2	.0	.0	.0
Ann	5.9	.5	N/A	N/A	16.0	Jan 1994	17	16.0	Jan 1994	23	Jan 1994	18	14	Jan 1994	2.0	1.0	.5	.3	.1	2.0	.6	.2	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/15	5/11	5/08	5/05	5/02	4/30	4/27	4/24	4/19
32	5/07	5/02	4/29	4/26	4/23	4/20	4/17	4/13	4/08
28	4/22	4/18	4/14	4/12	4/09	4/06	4/04	3/31	3/27
24	4/14	4/09	4/05	4/02	3/30	3/27	3/24	3/20	3/15
20	4/01	3/25	3/19	3/15	3/11	3/07	3/02	2/25	2/18
16	3/22	3/14	3/09	3/04	2/27	2/23	2/18	2/12	2/04

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	10/01	10/04	10/07	10/10	10/12	10/15	10/18	10/23
32	10/07	10/12	10/15	10/18	10/20	10/23	10/26	10/29	11/03
28	10/19	10/24	10/28	10/31	11/03	11/06	11/09	11/12	11/17
24	10/28	11/03	11/07	11/11	11/14	11/18	11/21	11/26	12/02
20	11/06	11/12	11/17	11/21	11/24	11/28	12/02	12/06	12/12
16	11/19	11/26	12/01	12/06	12/10	12/13	12/18	12/23	12/30

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	177	171	167	163	160	156	152	148	142
32	202	194	189	184	180	176	171	166	158
28	228	221	215	211	207	203	199	193	186
24	251	243	238	233	229	224	220	214	206
20	283	274	268	263	258	253	248	241	233
16	317	306	298	291	284	278	271	263	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

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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	1069	869	682	374	152	15	0	5	45	295	591	909	5006
60	914	729	531	235	74	3	0	0	12	181	446	754	3879
57	821	645	445	164	42	1	0	0	5	127	364	668	3282
55	762	593	388	123	27	0	0	0	2	98	312	610	2915
50	619	463	262	49	7	0	0	0	0	43	198	469	2110
32	206	117	25	0	0	0	0	0	0	0	11	115	474

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	161	172	366	618	944	1183	1356	1319	1079	752	410	230	8590
55	4	4	16	51	258	493	643	606	392	136	21	11	2635
57	0	0	11	32	211	433	581	544	334	104	14	7	2271
60	0	0	4	14	150	345	488	451	251	65	5	0	1773
65	0	0	0	2	73	207	333	301	134	24	0	0	1074
70	0	0	0	0	27	98	187	168	54	6	0	0	540

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	39	63	180	388	697	943	1102	1065	829	497	210	75	39	102	282	670	1367	2310	3412	4477	5306	5803	6013	6088
45	12	31	102	262	542	793	947	910	679	348	124	37	12	43	145	407	949	1742	2689	3599	4278	4626	4750	4787
50	3	11	52	157	390	643	792	755	529	222	64	15	3	14	66	223	613	1256	2048	2803	3332	3554	3618	3633
55	0	0	23	79	256	494	637	600	383	122	24	4	0	0	23	102	358	852	1489	2089	2472	2594	2618	2622
60	0	0	6	33	139	346	482	446	252	58	7	0	0	0	6	39	178	524	1006	1452	1704	1762	1769	1769
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	29	49	134	257	443	624	750	723	544	313	134	48	29	78	212	469	912	1536	2286	3009	3553	3866	4000	4048

(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:
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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