

Climatography of the United States

No. 20

1971-2000

Station: GOLDEN POND 8 N, KY

COOP ID: 153295

Climate Division: KY 1

NWS Call Sign:

Elevation: 400 Feet

Lat: 36° 54N

Lon: 88° 01W

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	43.6	24.7	34.2	80	1972	25	43.4	1990	-20	1963	24	20.3	1977	958	0	.0	.0	9.8	6.0	23.9	1.0
Feb	49.2	28.6	38.9	82	1962	13	47.0	1990	-10	1958	18	25.7	1978	732	0	.0	.0	13.9	3.8	18.7	.2
Mar	59.1	37.6	48.4	87	1967	13	55.8	1973	-8	1960	5	42.5	1996	517	2	.0	.0	23.8	.4	10.9	.0
Apr	69.5	45.9	57.7	91	1965	19	62.5	1977	21	1954	1	50.2	1983	239	19	.0	.1	28.9	.0	2.4	.0
May	77.7	55.3	66.5	94+	1996	24	71.7	1998	29	1963	1	61.9	1981	81	127	.0	1.3	31.0	.0	.0	.0
Jun	85.4	63.4	74.4	102	1954	27	77.6	1998	39	1956	2	70.3	1974	3	285	.1	8.5	30.0	.0	.0	.0
Jul	89.6	67.9	78.8	104+	1999	31	83.7	1993	47	1962	27	74.1	1984	0	426	.7	16.8	31.0	.0	.0	.0
Aug	88.1	65.7	76.9	104+	1999	13	82.2	1983	43	1986	29	73.1	1986	1	371	.5	12.9	31.0	.0	.0	.0
Sep	82.1	58.9	70.5	107	1954	5	74.7	1998	31	1963	30	65.7+	1981	28	193	.1	5.7	30.0	.0	.0	.0
Oct	71.0	47.2	59.1	95+	1953	2	66.5	1971	20	1957	28	52.7	1988	225	41	.0	.1	30.6	.0	1.7	.0
Nov	58.7	37.9	48.3	83+	1984	1	54.9	1999	7+	1986	13	40.2	1976	502	1	.0	.0	22.7	.1	9.9	.0
Dec	47.8	29.1	38.5	78+	1982	5	47.8	1971	-14	1989	22	26.4	1989	823	0	.0	.0	14.2	3.1	19.7	.4
Ann	68.5	46.9	57.7	107	Sep 1954	5	83.7	Jul 1993	-20	Jan 1963	24	20.3	Jan 1977	4109	1465	1.4	45.4	296.9	13.4	87.2	1.6

+ 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: 1953-2000

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

021-A

Climatology 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: GOLDEN POND 8 N, KY

COOP ID: 153295

Climate Division: KY 1

NWS Call Sign:

Elevation: 400 Feet

Lat: 36°54N

Lon: 88°01W

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	3.80	3.76	4.12	1966	2	9.38	1999	.19	1984	9.1	6.5	2.8	1.2	.74	1.08	1.64	2.15	2.67	3.23	3.86	4.62	5.63	7.26	8.80
Feb	4.48	3.92	5.60	1989	14	14.01	1989	1.26	1996	8.5	5.9	2.8	1.1	1.14	1.56	2.21	2.79	3.36	3.96	4.62	5.41	6.45	8.08	9.60
Mar	4.60	4.53	4.00	1964	9	11.27	1975	1.29	1998	10.2	7.7	3.3	1.3	1.53	1.96	2.60	3.14	3.67	4.21	4.79	5.48	6.37	7.74	9.01
Apr	4.40	4.18	3.05	1965	26	11.94	1983	1.19	1976	9.6	7.0	3.0	1.4	1.51	1.93	2.53	3.05	3.53	4.04	4.59	5.23	6.05	7.32	8.50
May	5.07	4.64	3.66	1967	15	12.44	1983	1.13	1987	10.7	7.6	3.6	1.4	1.74	2.22	2.92	3.51	4.07	4.65	5.29	6.03	6.98	8.45	9.80
Jun	4.22	4.09	5.30	1960	28	10.56	1998	1.01	1978	9.2	6.6	2.6	1.0	1.28	1.68	2.28	2.80	3.30	3.82	4.39	5.06	5.92	7.28	8.53
Jul	4.03	4.10	3.86	1967	11	8.22	1972	1.45	1999	7.8	5.7	3.0	1.1	1.61	1.98	2.51	2.94	3.35	3.77	4.22	4.74	5.39	6.40	7.32
Aug	3.17	2.93	3.70	1969	7	8.11	1975	.46	1999	7.0	4.9	1.9	.9	.57	.86	1.32	1.75	2.19	2.67	3.21	3.87	4.74	6.15	7.49
Sep	3.50	2.93	5.10	1979	14	9.81	1979	.22	1978	6.6	5.1	2.4	.9	.51	.81	1.31	1.80	2.30	2.86	3.50	4.28	5.33	7.05	8.70
Oct	3.26	3.01	2.60	1964	2	6.69+	1996	.56	2000	7.2	5.3	2.6	.9	.90	1.21	1.68	2.09	2.49	2.91	3.38	3.93	4.64	5.77	6.82
Nov	4.86	4.38	4.79	1988	19	13.32	1988	1.31	1976	9.2	7.0	3.2	1.3	1.42	1.88	2.58	3.18	3.76	4.37	5.05	5.84	6.87	8.47	9.97
Dec	4.69	4.12	3.35	1978	8	12.18	1990	.77	1976	9.5	7.0	3.2	1.3	1.21	1.66	2.34	2.94	3.53	4.15	4.84	5.66	6.73	8.42	10.00
Ann	50.08	48.18	5.60	Feb 1989	14	14.01	Feb 1989	.19	Jan 1984	104.6	76.3	34.4	13.8	35.33	38.17	41.82	44.59	47.06	49.45	51.91	54.64	57.95	62.75	66.91

+ 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: 1953-2000

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

Complete documentation available from:
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Station: GOLDEN POND 8 N, KY

COOP ID: 153295

Climate Division: KY 1

NWS Call Sign:

Elevation: 400 Feet

Lat: 36°54N

Lon: 88°01W

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	.5	#	#	0	5.0	1978	26	5.0+	1978	6	1977	14	5	1977	.6	.6	.1	.1	.0	.1	.0	.0	.0
Feb	.6	.0	#	0	7.0	1986	14	7.0	1986	3	1976	3	#+	1976	.3	.2	.1	.1	.0	.1	.1	.0	.0
Mar	.3	.0	#	0	3.0	1971	3	3.0	1971	3	1971	3	#+	1998	.2	.1	@	.0	.0	.1	.1	.0	.0
Apr	.0	.0	#	0	1.0	1971	6	1.0	1971	1	1971	6	#	1971	@	@	.0	.0	.0	.1	.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	.1	.0	#	0	1.3	1993	30	1.3	1993	1	1993	31	#	1993	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	#	0	.5	1976	12	.5+	1976	1	1976	12	#+	1977	@	.0	.0	.0	.0	.1	.0	.0	.0
Dec	.0	#	#	0	.5	1973	15	.5+	1973	#+	1998	22	#+	1998	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	1.5	#	N/A	N/A	7.0	Feb 1986	14	7.0	Feb 1986	6	Jan 1977	14	5	Jan 1977	1.2	.9	.2	.2	.0	.5	.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

Station: GOLDEN POND 8 N, KY

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Climate Division: KY 1

NWS Call Sign:

Elevation: 400 Feet

Lat: 36°54N

Lon: 88°01W

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	4/30	4/26	4/22	4/20	4/17	4/14	4/12	4/08	4/04
32	4/18	4/14	4/11	4/09	4/06	4/04	4/02	3/30	3/26
28	4/13	4/07	4/04	4/01	3/29	3/26	3/22	3/19	3/14
24	3/28	3/23	3/19	3/15	3/12	3/09	3/05	3/01	2/23
20	3/21	3/14	3/09	3/05	3/01	2/25	2/21	2/16	2/10
16	3/11	3/02	2/24	2/19	2/14	2/10	2/04	1/29	1/21
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	10/01	10/06	10/09	10/12	10/15	10/18	10/21	10/25	10/30
32	10/11	10/16	10/20	10/23	10/26	10/29	11/01	11/05	11/10
28	10/29	11/02	11/06	11/09	11/11	11/14	11/17	11/20	11/25
24	11/04	11/10	11/14	11/18	11/22	11/25	11/29	12/03	12/09
20	11/12	11/19	11/23	11/27	12/01	12/05	12/09	12/14	12/20
16	11/24	12/01	12/07	12/12	12/16	12/20	12/25	12/31	1/07
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	192	188	184	180	177	173	168	162
32	219	213	209	205	202	198	195	190	184
28	249	241	236	231	227	223	218	213	205
24	279	270	264	259	254	249	244	238	229
20	303	293	286	280	274	269	263	256	246
16	338	326	318	311	304	297	290	281	270

* 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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Station: GOLDEN POND 8 N, KY

COOP ID: 153295

Climate Division: KY 1 NWS Call Sign: Elevation: 400 Feet Lat: 36°54N Lon: 88°01W

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	958	732	517	239	81	3	0	1	28	225	502	823	4109
60	803	593	374	131	30	0	0	0	7	126	362	676	3102
57	719	516	294	82	14	0	0	0	2	82	283	588	2580
55	661	463	246	57	8	0	0	0	1	59	236	531	2262
50	519	339	147	17	1	0	0	0	0	21	138	397	1579
32	152	58	6	0	0	0	0	0	0	0	4	85	305

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	217	250	513	771	1069	1272	1449	1392	1155	839	493	284	9704
55	13	11	40	137	364	582	736	679	466	185	34	18	3265
57	10	8	26	103	308	522	674	617	407	146	22	13	2856
60	0	1	13	61	231	432	581	524	322	97	11	8	2281
65	0	0	2	19	127	285	426	371	193	41	1	0	1465
70	0	0	0	4	55	151	274	227	95	12	0	0	818

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	70	130	303	541	828	1038	1209	1152	922	596	289	114	70	200	503	1044	1872	2910	4119	5271	6193	6789	7078	7192
45	35	71	196	399	673	888	1054	997	772	445	184	58	35	106	302	701	1374	2262	3316	4313	5085	5530	5714	5772
50	13	33	111	269	518	738	899	842	622	304	107	24	13	46	157	426	944	1682	2581	3423	4045	4349	4456	4480
55	2	10	58	164	365	588	744	687	472	190	55	7	2	12	70	234	599	1187	1931	2618	3090	3280	3335	3342
60	0	0	27	84	231	439	589	532	330	97	18	0	0	0	27	111	342	781	1370	1902	2232	2329	2347	2347
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	44	86	186	333	532	706	831	789	608	377	171	67	44	130	316	649	1181	1887	2718	3507	4115	4492	4663	4730

(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