

# Climatography of the United States

No. 20

1971-2000

Station: JAMESTOWN WWTP, KY

COOP ID: 154208

Climate Division: KY 2

NWS Call Sign:

Elevation: 890 Feet

Lat: 37°01N

Lon: 85°04W

## 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	43.0	25.6	34.3	74	1972	25	43.6	1990	-22	1994	19	18.3	1977	953	0	.0	.0	10.0	6.5	23.5	1.3
Feb	47.9	27.6	37.8	76+	2000	26	45.2	1990	-8+	1996	5	25.1	1978	763	0	.0	.0	13.1	4.4	19.1	.3
Mar	57.9	35.7	46.8	89	1983	5	53.1	1973	-1	1980	3	40.7	1996	566	1	.0	.0	23.1	.6	12.5	@
Apr	67.6	43.2	55.4	90+	1995	17	62.1	1981	20	1982	7	46.3	1997	303	15	.0	.1	28.2	.0	4.2	.0
May	76.0	52.3	64.2	90	1987	30	70.0	1987	30	1976	4	57.3	1997	126	99	.0	@	30.9	.0	.1	.0
Jun	84.1	61.2	72.7	100	1988	26	78.3	1971	41+	1972	23	68.5	1992	10	240	@	5.2	30.0	.0	.0	.0
Jul	87.7	65.9	76.8	103	1980	17	81.4	1993	48	1972	7	73.6	1976	0	365	.3	10.8	31.0	.0	.0	.0
Aug	86.6	64.2	75.4	101+	1988	19	80.3	1980	44	1986	29	71.4	1992	3	324	.2	8.3	31.0	.0	.0	.0
Sep	80.9	57.1	69.0	97	1995	1	73.4	1971	34	2001	26	65.2	1993	38	159	.0	2.8	30.0	.0	.0	.0
Oct	70.1	45.3	57.7	87+	1986	4	64.9	1971	22	2001	28	51.6	1976	259	33	.0	.0	30.3	.0	2.9	.0
Nov	58.4	36.8	47.6	86	1987	1	55.5	1985	7	1976	30	39.7	1976	522	1	.0	.0	21.9	.2	11.5	.0
Dec	47.9	29.7	38.8	79	1982	4	47.5	1984	-14	1989	22	27.6	1989	813	0	.0	.0	13.7	3.6	20.0	.3
Ann	67.3	45.4	56.4	103	Jul 1980	17	81.4	Jul 1993	-22	Jan 1994	19	18.3	Jan 1977	4356	1237	.5	27.2	293.2	15.3	93.8	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/normal/usnormals.html](http://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: 1971-2001

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

029-A

# 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: JAMESTOWN WWTP, KY**

**COOP ID: 154208**

**Climate Division: KY 2**

**NWS Call Sign:**

**Elevation: 890 Feet**

**Lat: 37°01N**

**Lon: 85°04W**

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	4.26	3.82	2.70	1972	28	9.48	1972	.66	1986	11.3	8.2	3.0	1.1	1.24	1.64	2.25	2.78	3.29	3.83	4.42	5.12	6.02	7.43	8.74
Feb	4.19	3.53	2.90	1989	21	9.85	1989	1.24	1978	9.9	7.1	2.9	.9	1.51	1.90	2.47	2.95	3.41	3.87	4.38	4.97	5.73	6.89	7.96
Mar	4.95	4.70	3.67	1976	21	13.36	1975	2.02	1983	12.1	9.1	3.3	1.1	1.99	2.45	3.09	3.62	4.12	4.63	5.18	5.82	6.62	7.85	8.97
Apr	4.23	4.19	2.90	1998	16	8.40	1998	.19	1997	11.3	8.0	3.1	.9	.95	1.34	1.96	2.52	3.08	3.67	4.34	5.13	6.18	7.85	9.42
May	5.37	5.07	5.38	1984	7	11.41	1984	1.91	1988	11.6	9.0	3.5	1.5	2.32	2.80	3.48	4.03	4.55	5.07	5.63	6.28	7.09	8.33	9.45
Jun	4.43	3.99	2.37	1974	2	11.16	1976	.96	1988	10.0	7.3	3.2	1.1	1.15	1.56	2.21	2.78	3.33	3.92	4.58	5.35	6.36	7.96	9.46
Jul	4.50	4.79	3.04	1977	25	10.97	1971	.34	1993	10.1	7.1	2.6	1.1	.80	1.19	1.85	2.47	3.09	3.78	4.55	5.49	6.75	8.77	10.70
Aug	4.26	4.12	4.90	1975	19	8.86	1975	.66	1995	8.3	6.2	2.7	1.1	1.15	1.56	2.17	2.71	3.24	3.79	4.41	5.13	6.08	7.57	8.95
Sep	4.04	3.77	8.20	1982	2	11.58	1982	.43	1998	8.3	6.4	2.5	1.1	.73	1.09	1.68	2.23	2.79	3.40	4.09	4.93	6.05	7.84	9.56
Oct	3.34	2.92	2.75	1989	17	8.76	1984	.40	1987	7.4	5.6	2.3	.9	.74	1.05	1.54	1.98	2.43	2.90	3.43	4.06	4.89	6.22	7.47
Nov	4.33	4.22	3.80	1986	9	10.19	1986	.71	1976	10.2	7.5	3.1	.8	1.41	1.82	2.42	2.94	3.43	3.95	4.51	5.17	6.01	7.33	8.55
Dec	5.13	4.64	4.57	1978	8	17.64	1978	1.59	1985	11.6	7.8	3.3	1.5	1.61	2.09	2.82	3.44	4.04	4.66	5.34	6.15	7.18	8.79	10.28
Ann	53.03	53.32	8.20	Sep 1982	2	17.64	Dec 1978	.19	Apr 1997	122.1	89.3	35.5	13.1	38.50	41.34	44.96	47.71	50.14	52.48	54.90	57.57	60.79	65.47	69.50

+ 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: 1971-2001

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

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Station: JAMESTOWN WWTP, KY

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Climate Division: KY 2

NWS Call Sign:

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Lat: 37°01N

Lon: 85°04W

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	1.2	.7	#	#	10.0	1994	18	10.0	1994	10	1996	6	1+	1996	.8	.6	.1	.1	.0	-9.9	-9.9	-9.9	-9.9
Feb	1.7	1.5	#	#	6.0	1985	2	6.0	1985	12	1986	15	2	1985	.9	.8	.1	.1	.0	.9	.0	.0	.0
Mar	1.3	.0	#	0	8.0	1993	14	13.0	1993	12	1993	14	1	1993	.4	.3	.1	.1	.0	.5	.2	.1	.1
Apr	.2	.0	#	0	2.2	1971	7	2.2	1971	2	1983	18	#+	1996	.1	.1	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	4.0	1977	27	4.0	1977	4	1977	27	#+	1977	.2	.1	@	.0	.0	.2	.1	.0	.0
Dec	.4	.0	#	0	1.5	1988	9	1.5	1988	2+	1988	9	#+	1988	.4	.1	.0	.0	.0	.4	.0	.0	.0
Ann	5.1	2.2	N/A	N/A	10.0	Jan 1994	18	13.0	Mar 1993	12+	Mar 1993	14	2	Feb 1985	2.8	2.0	.3	.3	.0	-9.9	-9.9	-9.9	-9.9

+ 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	5/18	5/12	5/08	5/04	5/01	4/28	4/24	4/20	4/14
32	4/28	4/24	4/20	4/17	4/15	4/12	4/09	4/06	4/01
28	4/20	4/14	4/10	4/06	4/03	3/30	3/27	3/22	3/16
24	4/08	4/03	3/30	3/27	3/23	3/20	3/17	3/13	3/07
20	3/25	3/18	3/14	3/09	3/06	3/02	2/26	2/21	2/15
16	3/10	3/04	2/28	2/25	2/21	2/18	2/14	2/10	2/05
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	9/30	10/04	10/06	10/08	10/11	10/13	10/15	10/18	10/21
32	10/09	10/14	10/17	10/21	10/24	10/27	10/30	11/03	11/08
28	10/18	10/24	10/28	10/31	11/03	11/07	11/10	11/14	11/20
24	10/29	11/04	11/08	11/12	11/15	11/19	11/22	11/26	12/02
20	11/08	11/15	11/20	11/24	11/28	12/02	12/06	12/11	12/18
16	11/24	11/30	12/05	12/09	12/13	12/17	12/21	12/25	1/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	181	174	170	166	162	158	154	149	143
32	211	204	199	195	191	187	183	179	172
28	239	230	224	219	214	209	204	198	189
24	259	251	245	241	236	231	227	221	213
20	292	283	277	272	267	262	257	250	242
16	317	309	303	298	294	289	284	278	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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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	953	763	566	303	126	10	0	3	38	259	522	813	4356
60	803	623	420	185	59	2	0	0	10	154	380	664	3300
57	716	542	337	129	33	0	0	0	4	105	300	576	2742
55	658	491	286	98	21	0	0	0	2	78	250	518	2402
50	519	363	179	40	6	0	0	0	0	32	148	383	1670
32	158	64	8	0	0	0	0	0	0	0	4	74	308

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	229	224	467	702	996	1220	1388	1345	1111	797	473	284	9236
55	16	8	32	110	304	530	675	632	423	163	29	16	2938
57	12	3	21	81	254	470	613	570	365	127	18	11	2545
60	5	0	11	47	187	381	520	477	281	83	9	7	2008
65	0	0	1	15	99	240	365	324	159	33	1	0	1237
70	0	0	0	3	41	122	215	185	71	10	0	0	647

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	71	116	272	482	748	983	1137	1099	872	544	270	118	71	187	459	941	1689	2672	3809	4908	5780	6324	6594	6712
45	34	63	174	347	593	833	982	944	722	394	172	64	34	97	271	618	1211	2044	3026	3970	4692	5086	5258	5322
50	17	28	96	228	441	683	827	789	572	263	99	31	17	45	141	369	810	1493	2320	3109	3681	3944	4043	4074
55	2	6	45	133	299	533	672	634	425	150	48	7	2	8	53	186	485	1018	1690	2324	2749	2899	2947	2954
60	0	0	18	68	174	385	517	479	285	68	16	1	0	0	18	86	260	645	1162	1641	1926	1994	2010	2011
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	42	77	170	299	471	665	787	758	575	336	161	65	42	119	289	588	1059	1724	2511	3269	3844	4180	4341	4406

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)