

# Climatography of the United States

## No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

**Station: GALESBURG, IL**

**1971-2000**

**COOP ID: 113320**

**Climate Division: IL 3**

**NWS Call Sign:**

**Elevation: 771 Feet**

**Lat: 40° 57N**

**Lon: 90° 23W**

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	29.0	13.5	21.3	68	1950	24	34.0	1990	-25	1982	10	7.5	1977	1356	0	.0	.0	1.5	17.4	29.3	6.4
Feb	35.1	19.2	27.2	71+	1976	27	38.1	1998	-24	1996	3	14.2	1979	1059	0	.0	.0	4.2	11.7	24.7	3.4
Mar	47.9	29.4	38.7	86	1986	29	45.3	1973	-14	1960	5	29.8	1978	817	0	.0	.0	12.9	3.5	19.3	.1
Apr	61.2	40.2	50.7	91+	1986	25	56.6	1977	9	1982	6	45.2	1982	434	5	.0	@	24.8	.1	5.7	.0
May	72.5	51.4	62.0	95	1956	12	68.7	1977	28	1966	10	56.3	1997	176	81	.0	.4	30.7	.0	.2	.0
Jun	81.4	60.8	71.1	101	1988	25	76.3	1971	41+	1993	1	66.9	1982	17	200	@	3.6	30.0	.0	.0	.0
Jul	84.5	65.3	74.9	102+	1983	28	79.7	1987	46	1971	30	70.5	1971	5	312	.2	7.5	31.0	.0	.0	.0
Aug	81.9	63.2	72.6	101+	1988	17	79.1	1983	42	1986	28	67.3	1992	17	252	.3	4.3	31.0	.0	.0	.0
Sep	74.7	54.7	64.7	99	1953	1	70.0	1998	29	1984	29	60.0	1974	92	83	.0	1.4	30.0	.0	.1	.0
Oct	62.7	42.9	52.8	91+	1997	3	59.4	1971	18	1952	29	45.7	1976	386	8	.0	@	28.1	.0	4.4	.0
Nov	46.7	30.8	38.8	79	1950	1	45.9	1999	-5	1976	30	31.0	1976	788	0	.0	.0	12.9	2.7	17.7	.1
Dec	33.4	19.2	26.3	69	1970	3	34.7	1982	-22	1963	21	12.9	1983	1200	0	.0	.0	2.8	12.1	27.6	3.3
Ann	59.3	40.9	50.1	102+	Jul 1983	28	79.7	Jul 1987	-25	Jan 1982	10	7.5	Jan 1977	6347	941	.5	17.2	239.9	47.5	129.0	13.3

+ 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: 1948-2001

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

030-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: GALESBURG, IL**

**COOP ID: 113320**

**Climate Division: IL 3**

**NWS Call Sign:**

**Elevation: 771 Feet**

**Lat: 40°57N**

**Lon: 90°23W**

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	1.41	1.15	2.15	1965	1	3.98	1974	.07	1981	8.1	3.8	.6	.2	.23	.35	.55	.75	.95	1.17	1.42	1.72	2.13	2.80	3.44
Feb	1.55	1.31	2.76	1997	21	4.78	1997	.01	1987	7.0	3.7	.9	.2	.22	.35	.58	.79	1.01	1.26	1.54	1.89	2.36	3.12	3.85
Mar	2.84	2.74	4.11	1954	25	7.48	1985	.37	1999	9.9	6.3	1.6	.6	.52	.77	1.18	1.57	1.97	2.39	2.88	3.47	4.25	5.51	6.71
Apr	3.81	4.03	3.05	1967	29	7.32	1981	.71	1985	11.3	6.6	2.6	1.0	1.21	1.57	2.11	2.56	3.01	3.46	3.97	4.56	5.32	6.50	7.59
May	3.97	3.85	2.58	1951	10	10.07	1995	.42	1992	11.1	7.7	2.9	.9	1.06	1.44	2.01	2.52	3.01	3.53	4.11	4.79	5.68	7.08	8.39
Jun	4.18	3.54	4.11	1970	14	9.97	1974	.49	1971	9.6	6.8	3.2	1.2	.92	1.30	1.92	2.47	3.02	3.62	4.28	5.08	6.12	7.80	9.37
Jul	4.37	3.66	6.13	1993	24	12.70	1982	.86	1983	9.1	6.6	2.5	1.3	.98	1.39	2.03	2.60	3.18	3.79	4.48	5.31	6.39	8.12	9.75
Aug	4.07	3.41	3.40	1980	31	10.69	1977	.88	1992	9.1	6.6	2.7	1.1	.86	1.23	1.83	2.37	2.92	3.50	4.16	4.95	5.99	7.65	9.22
Sep	3.50	2.77	4.90	1961	13	7.98	1986	.82	1979	8.0	5.8	2.6	.9	.90	1.23	1.74	2.19	2.63	3.10	3.62	4.23	5.04	6.31	7.50
Oct	2.52	2.13	3.74	1969	10	5.89	1998	.79	1987	8.5	5.0	1.6	.5	.74	.98	1.34	1.65	1.96	2.27	2.62	3.03	3.55	4.38	5.15
Nov	2.72	2.50	2.61	1954	19	7.21	1985	.17	1999	9.0	5.7	1.8	.7	.48	.72	1.11	1.49	1.87	2.28	2.75	3.32	4.08	5.30	6.47
Dec	2.28	2.02	2.56	1982	3	5.37	1982	.29	1976	9.0	4.7	1.3	.6	.56	.78	1.11	1.41	1.70	2.01	2.35	2.76	3.30	4.15	4.95
Ann	37.22	36.65	6.13	Jul 1993	24	12.70	Jul 1982	.01	Feb 1987	109.7	69.3	24.3	9.2	26.07	28.22	30.98	33.08	34.95	36.76	38.63	40.70	43.21	46.87	50.03

+ 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

Complete documentation available from:  
[www.ncdc.noaa.gov/oa/climate/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

# 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](http://www.ncdc.noaa.gov)

Station: GALESBURG, IL

COOP ID: 113320

Climate Division: IL 3

NWS Call Sign:

Elevation: 771 Feet

Lat: 40°57N

Lon: 90°23W

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	8.0	8.4	3	2	10.0	1999	3	27.0	1979	26	1979	16	19	1979	5.5	2.8	.9	.3	@	16.0	10.2	5.0	1.4
Feb	5.7	4.9	2	2	5.6	1986	7	13.7	1975	24	1979	10	19	1979	3.8	1.7	.5	.1	.0	12.3	8.9	5.7	1.5
Mar	2.5	2.0	#	#	9.0	1999	9	9.0	1999	10	1979	1	3	1979	1.8	1.1	.2	.1	.0	3.5	1.8	.7	@
Apr	.7	.0	#	0	11.0	1997	11	11.0	1997	11	1997	11	1+	1997	.5	.3	.2	.1	@	.4	.3	.2	@
May	.0	.0	0	0	.2	1994	8	.2	1994	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	1.0	1997	27	1.0	1997	1	1997	27	#	1997	.1	@	.0	.0	.0	@	.0	.0	.0
Nov	2.1	1.0	#	#	6.0	1974	30	8.7	1974	6	1977	30	1	1977	1.3	.6	.1	.1	.0	1.2	.4	.2	.0
Dec	4.1	2.7	1	1	6.6	1992	10	13.2	1978	13	2000	30	7	2000	3.3	1.8	.8	.1	.0	7.2	4.2	2.3	.1
Ann	23.2	19.0	N/A	N/A	11.0	Apr 1997	11	27.0	Jan 1979	26	Jan 1979	16	19+	Feb 1979	16.3	8.3	2.7	.8	@	40.6	25.8	14.1	3.0

+ 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:

[www.ncdc.noaa.gov/oa/climate/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

# Climatography of the United States

## No. 20 1971-2000

**Station: GALESBURG, IL**

**COOP ID: 113320**

**Climate Division: IL 3**

**NWS Call Sign:**

**Elevation: 771 Feet**

**Lat: 40° 57N**

**Lon: 90° 23W**

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	5/13	5/09	5/05	5/02	4/29	4/25	4/21	4/16
32	4/30	4/25	4/22	4/19	4/16	4/13	4/10	4/07	4/02
28	4/19	4/15	4/13	4/11	4/09	4/06	4/04	4/02	3/29
24	4/13	4/10	4/07	4/04	4/02	3/31	3/29	3/26	3/22
20	4/06	4/01	3/28	3/25	3/22	3/19	3/16	3/12	3/07
16	4/02	3/25	3/20	3/16	3/11	3/07	3/03	2/25	2/18
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	9/22	9/26	9/28	10/01	10/03	10/05	10/07	10/09	10/13
32	9/29	10/04	10/07	10/10	10/13	10/16	10/18	10/22	10/27
28	10/10	10/16	10/20	10/23	10/26	10/30	11/02	11/06	11/12
24	10/23	10/28	10/31	11/03	11/05	11/08	11/11	11/14	11/19
20	11/01	11/06	11/11	11/14	11/17	11/21	11/24	11/28	12/04
16	11/09	11/15	11/19	11/23	11/27	11/30	12/04	12/08	12/14
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	173	166	161	157	153	149	145	140	134
32	200	193	187	183	179	175	170	165	158
28	219	212	208	204	200	196	193	188	182
24	231	226	222	219	216	213	210	207	201
20	267	257	251	245	240	234	228	222	213
16	286	277	270	265	260	254	249	242	233

\* 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:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

**Climatography  
of the United States  
No. 20  
1971-2000**

**Station: GALESBURG, IL**

**COOP ID: 113320**

**Climate Division: IL 3      NWS Call Sign:      Elevation: 771 Feet      Lat: 40°57N      Lon: 90°23W**

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	1356	1059	817	434	176	17	5	17	92	386	788	1200	6347
60	1201	919	662	299	96	3	0	3	34	254	638	1045	5154
57	1108	835	572	227	61	1	0	0	15	187	549	952	4507
55	1046	781	516	185	43	0	0	0	8	148	492	890	4109
50	893	651	377	98	16	0	0	0	1	74	357	747	3214
32	407	252	65	1	0	0	0	0	0	0	53	294	1072

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	74	117	271	562	928	1173	1330	1257	980	645	256	117	7710
55	0	2	9	56	258	483	617	544	298	80	4	0	2351
57	0	0	3	39	214	424	555	482	246	57	2	0	2022
60	0	0	0	20	156	336	462	392	174	31	0	0	1571
65	0	0	0	5	81	200	312	252	83	8	0	0	941
70	0	0	0	1	33	94	175	139	29	1	0	0	472

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	5	27	122	347	688	942	1095	1024	761	425	116	20	5	32	154	501	1189	2131	3226	4250	5011	5436	5552	5572
45	0	8	64	229	533	792	940	869	611	290	62	5	0	8	72	301	834	1626	2566	3435	4046	4336	4398	4403
50	0	2	33	133	383	642	785	714	463	176	27	2	0	2	35	168	551	1193	1978	2692	3155	3331	3358	3360
55	0	0	11	67	248	492	630	559	325	98	7	0	0	0	11	78	326	818	1448	2007	2332	2430	2437	2437
60	0	0	4	30	138	342	475	406	199	44	1	0	0	0	4	34	172	514	989	1395	1594	1638	1639	1639
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	17	73	199	416	634	755	701	482	245	64	5	0	17	90	289	705	1339	2094	2795	3277	3522	3586	3591

(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)