

# Climatology of the United States

No. 20

1971-2000

Station: SCOTTSBURG, IN

COOP ID: 127875

Climate Division: IN 9

NWS Call Sign:

Elevation: 550 Feet Lat: 38°42N Lon: 85°46W

## 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	38.4	19.8	29.1	78	1943	24	39.4	1990	-32	1977	17	11.8	1977	1114	0	.0	.0	5.9	9.6	26.6	2.7
Feb	44.2	22.6	33.4	80	1932	10	41.3	1976	-32	1951	2	19.0	1978	885	0	.0	.0	9.9	5.7	22.4	1.8
Mar	54.6	31.8	43.2	89	1929	24	50.5	1973	-11+	1960	6	36.2	1996	675	0	.0	.0	19.5	.9	17.5	.2
Apr	65.5	41.5	53.5	96	1925	24	59.0	1981	18+	1923	1	49.1	1997	348	4	.0	.0	27.1	.0	5.7	.0
May	75.4	52.1	63.8	99+	1911	27	70.3	1991	26	1963	1	58.7	1997	138	98	.0	.7	30.8	.0	.2	.0
Jun	83.6	61.2	72.4	107	1936	29	76.0	1984	37	1966	1	68.4+	1974	10	232	@	6.1	30.0	.0	.0	.0
Jul	87.4	65.2	76.3	109+	1901	22	79.6	1983	45	1947	23	73.3	1971	0	350	.3	11.7	31.0	.0	.0	.0
Aug	86.1	62.7	74.4	107	1918	5	79.6	1983	40	1965	29	70.2	1992	5	296	.1	9.2	31.0	.0	.0	.0
Sep	79.7	54.7	67.2	106	1943	1	71.3	1998	23	1942	29	62.4	1974	56	122	.0	3.5	30.0	.0	.1	.0
Oct	68.3	42.1	55.2	97	1953	1	62.9	1971	14	1925	29	48.1	1987	324	20	.0	@	30.2	.0	5.5	.0
Nov	55.0	33.8	44.4	86	1950	1	49.8	1999	-6	1958	30	36.7	1976	619	0	.0	.0	19.5	.4	14.5	.0
Dec	43.2	24.6	33.9	76	1982	3	43.3	1982	-22	1917	11	19.6	1989	964	0	.0	.0	9.4	5.6	23.4	.9
Ann	65.1	42.7	53.9	109+	Jul 1901	22	79.6+	Aug 1983	-32+	Jan 1977	17	11.8	Jan 1977	5138	1122	.4	31.2	274.3	22.2	115.9	5.6

+ 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](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: 1901-2001

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

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# 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: SCOTTSBURG, IN

COOP ID: 127875

Climate Division: IN 9

NWS Call Sign:

Elevation: 550 Feet Lat: 38°42N

Lon: 85°46W

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	3.12	2.64	3.64	1937	21	8.24	1982	.44	1981	8.5	6.5	1.9	.7	.83	1.13	1.58	1.98	2.37	2.78	3.23	3.77	4.47	5.57	6.60
Feb	2.84	2.29	3.37	1945	26	7.00	2000	.46	1978	8.0	5.7	1.9	.6	.64	.90	1.32	1.69	2.07	2.46	2.91	3.45	4.15	5.27	6.32
Mar	4.06	3.68	4.05	1945	6	7.59	1989	1.46	1971	10.3	7.8	3.1	.8	1.47	1.85	2.40	2.86	3.30	3.75	4.24	4.81	5.54	6.66	7.69
Apr	4.38	4.30	4.48	1996	29	11.62	1996	.87	1976	10.4	8.0	2.8	1.1	1.38	1.79	2.41	2.94	3.45	3.98	4.56	5.24	6.12	7.49	8.75
May	4.75	3.87	3.16	1902	23	11.48	1995	1.75	1988	10.8	8.6	3.4	1.1	1.63	2.08	2.73	3.28	3.81	4.36	4.95	5.65	6.54	7.92	9.18
Jun	4.20	4.13	5.52	1949	16	9.56	1998	.35	1988	9.2	6.9	2.7	1.2	1.23	1.63	2.23	2.75	3.25	3.78	4.36	5.05	5.94	7.33	8.62
Jul	4.44	4.46	4.30	1943	29	9.24	1992	.33	1983	8.7	6.5	3.1	1.2	.99	1.40	2.05	2.64	3.22	3.85	4.55	5.38	6.48	8.24	9.89
Aug	4.37	3.66	8.00	1992	8	11.98	1992	1.22	1987	8.2	6.6	2.9	1.3	1.20	1.62	2.25	2.80	3.34	3.90	4.53	5.26	6.23	7.74	9.14
Sep	3.09	2.65	3.55	1965	12	7.60	1996	.33	1998	7.0	5.3	2.1	.9	.46	.72	1.17	1.59	2.04	2.53	3.09	3.77	4.70	6.20	7.64
Oct	2.91	2.53	4.96	1910	5	11.57	1983	.70	2000	7.3	5.5	2.1	.7	.77	1.04	1.46	1.83	2.20	2.58	3.01	3.51	4.17	5.21	6.17
Nov	3.68	3.15	3.22	1948	6	7.33	1979	.81	1976	9.4	6.9	2.7	.8	1.25	1.60	2.11	2.54	2.95	3.37	3.84	4.38	5.07	6.15	7.14
Dec	3.35	3.34	3.21	1932	30	8.05	1990	.40	1976	8.9	6.5	2.4	1.0	1.03	1.34	1.82	2.23	2.62	3.04	3.49	4.02	4.71	5.78	6.77
Ann	45.19	45.97	8.00	Aug 1992	8	11.98	Aug 1992	.33+	Sep 1998	106.7	80.8	31.1	11.4	33.34	35.67	38.63	40.87	42.85	44.75	46.72	48.88	51.49	55.27	58.52

+ 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: 1901-2001

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

Complete documentation available from:  
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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**Station: SCOTTSBURG, IN**

**COOP ID: 127875**

**Climate Division: IN 9**

**NWS Call Sign:**

**Elevation: 550 Feet**

**Lat: 38°42N**

**Lon: 85°46W**

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	5.1	2.5	1	#	10.0	1978	17	24.0	1977	15	1977	15	9	1977	2.5	2.5	.5	.3	@	7.2	2.9	2.2	1.2
Feb	4.7	3.0	1	#	10.0	1971	13	20.0	1971	16	1998	6	6	1978	1.9	1.9	.6	.2	.1	5.4	3.6	2.5	.3
Mar	3.4	1.0	#	#	15.0	1996	20	18.0	1996	10	1996	21	2	1996	1.1	1.1	.5	.2	@	1.4	1.0	.7	.1
Apr	.1	.0	#	0	1.0	1973	10	1.0+	1982	1	1987	1	#+	2000	.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	.1	.0	#	0	2.0	1993	30	4.0	1993	2	1993	30	#+	1993	.1	.1	.0	.0	.0	.1	.0	.0	.0
Nov	.5	.0	#	0	2.0	1971	7	3.0	1971	2	1977	28	#+	1997	.3	.3	.0	.0	.0	.2	.0	.0	.0
Dec	2.5	2.0	#	#	8.0	1990	28	9.0	1990	9	1990	28	3	1989	1.3	1.2	.2	.1	.0	3.5	.9	.6	.0
Ann	16.4	8.5	N/A	N/A	15.0	Mar 1996	20	24.0	Jan 1977	16	Feb 1998	6	9	Jan 1977	7.3	7.2	1.8	.8	.1	17.9	8.4	6.0	1.6

+ 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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**NWS Call Sign:**

**Elevation: 550 Feet**

**Lat: 38° 42N**

**Lon: 85° 46W**

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	5/10	5/07	5/05	5/02	4/30	4/27	4/24	4/20
32	5/03	4/29	4/26	4/23	4/20	4/18	4/15	4/12	4/07
28	4/22	4/18	4/15	4/12	4/10	4/08	4/05	4/02	3/29
24	4/12	4/07	4/03	3/30	3/27	3/24	3/20	3/16	3/11
20	3/28	3/23	3/20	3/16	3/14	3/11	3/08	3/04	2/27
16	3/16	3/10	3/05	3/02	2/26	2/22	2/18	2/14	2/07
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	9/24	9/27	9/30	10/02	10/04	10/05	10/07	10/10	10/13
32	9/29	10/03	10/06	10/09	10/11	10/13	10/16	10/19	10/23
28	10/11	10/17	10/21	10/24	10/27	10/30	11/03	11/07	11/12
24	10/21	10/27	10/31	11/04	11/07	11/10	11/14	11/18	11/24
20	11/03	11/10	11/15	11/19	11/23	11/27	12/01	12/06	12/13
16	11/15	11/23	11/28	12/03	12/08	12/12	12/17	12/23	12/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	167	162	159	156	154	151	148	145	140
32	190	184	180	176	173	170	166	162	156
28	220	213	208	203	199	195	191	186	179
24	247	239	233	229	224	220	215	210	202
20	276	268	263	258	254	249	244	239	231
16	308	300	294	289	284	280	274	268	260

\* 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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**NWS Call Sign:**

**Elevation: 550 Feet    Lat: 38°42N    Lon: 85°46W**

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	1114	885	675	348	138	10	0	5	56	324	619	964	5138
60	959	745	525	215	67	2	0	0	17	205	470	809	4014
57	866	663	439	147	39	0	0	0	7	147	386	724	3418
55	809	612	383	109	25	0	0	0	4	115	331	665	3053
50	665	483	257	42	7	0	0	0	0	53	209	523	2239
32	242	138	26	0	0	0	0	0	0	0	10	151	567

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	151	177	374	646	984	1212	1373	1314	1056	719	381	210	8597
55	6	8	17	65	296	522	660	601	370	121	13	11	2690
57	0	3	11	43	247	462	598	539	313	91	7	7	2321
60	0	0	5	21	183	374	505	446	233	57	2	0	1826
65	0	0	0	4	98	232	350	296	122	20	0	0	1122
70	0	0	0	1	42	112	200	162	48	5	0	0	570

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	67	196	417	746	981	1135	1077	828	485	206	66	39	106	302	719	1465	2446	3581	4658	5486	5971	6177	6243
45	15	33	119	289	592	831	980	922	678	341	126	32	15	48	167	456	1048	1879	2859	3781	4459	4800	4926	4958
50	3	10	61	183	438	681	825	767	529	219	66	17	3	13	74	257	695	1376	2201	2968	3497	3716	3782	3799
55	0	3	31	104	295	531	670	612	383	125	29	4	0	3	34	138	433	964	1634	2246	2629	2754	2783	2787
60	0	0	7	49	179	386	515	458	249	58	9	0	0	0	7	56	235	621	1136	1594	1843	1901	1910	1910
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	23	51	135	264	472	661	778	729	540	314	132	39	23	74	209	473	945	1606	2384	3113	3653	3967	4099	4138

(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.  
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.

- 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/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)