

# Climatography of the United States

No. 20

1971-2000

Station: STEVENS POINT, WI

COOP ID: 478171

Climate Division: WI 5

NWS Call Sign:

Elevation: 1,079 Feet Lat: 44° 30N

Lon: 89° 35W

## 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	22.7	3.2	13.0	54	1981	26	25.4	1990	-34	1963	15	1.0	1977	1614	0	.0	.0	.1	23.8	30.8	11.7
Feb	27.8	7.9	17.9	62	2000	27	30.8	1998	-38	1951	9	7.9	1979	1320	0	.0	.0	.9	17.1	27.5	7.8
Mar	39.0	20.2	29.6	81	1986	30	38.4	2000	-31	1962	1	22.5	1996	1098	0	.0	.0	6.0	7.6	26.1	2.6
Apr	53.8	33.4	43.6	90+	1952	29	50.1	1977	2	1954	3	36.7	1975	643	1	.0	.0	19.6	.4	13.9	.0
May	67.1	44.9	56.0	91+	1967	27	64.4	1977	21+	1966	9	49.5	1983	311	32	.0	@	30.2	.0	2.0	.0
Jun	76.0	54.5	65.3	96+	1994	18	70.5	1995	33+	1972	10	59.6	1982	83	91	.0	1.4	30.0	.0	.0	.0
Jul	80.0	59.4	69.7	102	1995	14	73.7	1983	40	1952	29	63.9	1992	19	165	@	2.3	31.0	.0	.0	.0
Aug	77.5	57.1	67.3	102	1948	24	72.5	1995	35	1965	29	63.5	1986	48	119	@	1.4	31.0	.0	.0	.0
Sep	68.7	47.3	58.0	95+	1955	9	63.6	1998	25	1949	29	51.8	1993	228	19	.0	.2	29.5	.0	.9	.0
Oct	56.3	36.2	46.3	90	1976	2	53.5	1971	9	1952	29	40.9	1987	582	0	.0	@	24.2	.0	9.5	.0
Nov	40.5	23.2	31.9	74	1964	4	40.2	1999	-12	1950	25	24.3	1976	994	0	.0	.0	7.2	6.5	23.5	.5
Dec	26.9	9.9	18.4	62	2001	5	26.9	1997	-28	1951	24	7.5	1985	1445	0	.0	.0	.7	19.6	30.2	6.8
Ann	53.0	33.1	43.1	102+	Jul 1995	14	73.7	Jul 1983	-38	Feb 1951	9	1.0	Jan 1977	8385	427	.0	5.3	210.4	75.0	164.4	29.4

+ 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

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## No. 20 1971-2000

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

**Station: STEVENS POINT, WI**

**COOP ID: 478171**

**Climate Division: WI 5**

**NWS Call Sign:**

**Elevation: 1,079 Feet Lat: 44°30N**

**Lon: 89°35W**

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	1.11	1.00	1.22	1980	16	2.79	1980	.06	1981	10.0	3.6	.3	@	.23	.33	.49	.64	.79	.95	1.13	1.34	1.63	2.08	2.51
Feb	.98	.94	1.28	1953	11	2.79	1981	.07	1987	7.7	3.0	.4	@	.17	.25	.40	.53	.67	.82	.99	1.20	1.47	1.92	2.35
Mar	1.95	1.89	1.94	1973	7	4.35	1973	.19	1999	9.5	5.0	1.0	.2	.41	.59	.87	1.13	1.40	1.68	1.99	2.38	2.88	3.68	4.45
Apr	2.87	2.84	2.40	1981	4	5.27	1981	.66	1997	11.3	6.7	1.8	.4	.98	1.25	1.65	1.98	2.30	2.63	3.00	3.42	3.96	4.80	5.57
May	3.63	3.32	4.16	1969	27	8.52	1989	1.20	1981	11.0	6.7	2.5	.9	1.29	1.64	2.13	2.54	2.94	3.35	3.79	4.31	4.96	5.98	6.91
Jun	3.66	3.40	2.88	1956	26	9.04	2000	.94	1988	11.7	7.5	2.3	.7	.93	1.28	1.81	2.28	2.74	3.23	3.77	4.42	5.26	6.59	7.84
Jul	4.12	3.81	3.87	1982	11	8.68	1982	.84	1998	10.9	7.5	2.5	1.0	1.38	1.77	2.34	2.83	3.29	3.77	4.30	4.91	5.69	6.91	8.03
Aug	4.11	3.69	2.74	1958	30	8.91	1995	1.60	1976	11.3	7.5	3.1	1.0	1.75	2.13	2.65	3.07	3.47	3.88	4.31	4.81	5.45	6.41	7.28
Sep	3.78	3.39	2.94	1983	20	8.33	1986	.20	1979	11.5	7.1	2.3	1.0	.85	1.20	1.76	2.25	2.75	3.28	3.88	4.59	5.53	7.01	8.42
Oct	2.31	2.03	3.20	1954	3	5.63	1984	.17	2000	9.6	5.4	1.5	.5	.54	.76	1.09	1.40	1.70	2.01	2.37	2.80	3.36	4.24	5.07
Nov	2.27	2.11	2.81	1984	1	5.20	1991	.04	1976	10.5	5.1	1.3	.4	.27	.45	.77	1.09	1.42	1.80	2.23	2.77	3.50	4.71	5.88
Dec	1.34	1.44	1.45	1953	6	2.99	1982	.27	1994	10.2	4.1	.5	@	.26	.38	.58	.76	.94	1.14	1.36	1.63	1.98	2.55	3.08
Ann	32.13	32.34	4.16	May 1969	27	9.04	Jun 2000	.04	Nov 1976	125.2	69.2	19.5	6.1	24.70	26.18	28.05	29.46	30.70	31.88	33.10	34.44	36.05	38.37	40.35

+ 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

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**Climate Division: WI 5**

**NWS Call Sign:**

**Elevation: 1,079 Feet**

**Lat: 44° 30N**

**Lon: 89° 35W**

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	11.4	10.7	7	7	11.0	2000	13	24.4+	1982	19	1982	22	14+	1997	7.7	4.3	1.3	.3	@	29.6	23.9	20.2	9.3
Feb	9.2	9.8	9	9	8.0	1971	5	17.2	1971	25	1971	6	19	1971	5.2	3.2	.9	.1	.0	25.4	23.1	20.4	10.2
Mar	7.7	7.0	5	3	10.0	1997	14	19.4	1989	24	1997	15	14	1979	3.8	2.9	.9	.2	@	15.3	11.8	9.4	5.0
Apr	1.8	1.0	#	#	6.0	1977	5	9.0	1977	8	1975	1	2	1975	1.0	.8	.2	.1	.0	1.6	.7	.3	.0
May	#	.0	#	0	#	1976	2	#+	1976	#	1997	1	#	1997	.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	1.5	1992	20	1.5	1992	2+	1992	20	#+	1992	.1	.1	.0	.0	.0	.1	.0	.0	.0
Nov	2.7	1.0	1	#	5.5	1986	20	10.7	1971	9	1991	29	2+	2000	2.8	1.7	.6	.2	.0	4.0	2.2	.9	.0
Dec	11.7	10.3	4	3	6.5	1990	15	25.9	2000	18	2000	29	12	1985	7.7	4.4	1.3	.3	.0	23.1	18.1	11.3	2.6
Ann	44.6	39.8	N/A	N/A	11.0	Jan 2000	13	25.9	Dec 2000	25	Feb 1971	6	19	Feb 1971	28.3	17.4	5.2	1.2	@	99.1	79.8	62.5	27.1

+ 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	6/02	5/28	5/24	5/21	5/18	5/15	5/12	5/08	5/03
32	5/18	5/14	5/11	5/08	5/06	5/03	5/01	4/28	4/23
28	5/07	5/02	4/29	4/26	4/23	4/20	4/17	4/14	4/09
24	4/25	4/20	4/17	4/15	4/13	4/10	4/08	4/05	4/01
20	4/15	4/11	4/08	4/06	4/03	4/01	3/29	3/26	3/22
16	4/12	4/07	4/03	3/31	3/28	3/25	3/22	3/18	3/13
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	9/10	9/14	9/16	9/18	9/20	9/22	9/25	9/27	10/01
32	9/21	9/24	9/26	9/28	9/30	10/02	10/04	10/06	10/10
28	9/26	10/01	10/04	10/07	10/10	10/13	10/16	10/20	10/25
24	10/10	10/16	10/20	10/24	10/27	10/30	11/03	11/07	11/13
20	10/21	10/26	10/29	11/01	11/04	11/07	11/10	11/13	11/18
16	10/27	11/02	11/06	11/09	11/13	11/16	11/19	11/23	11/29
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	146	139	133	129	125	121	116	111	104
32	162	157	153	150	147	144	140	137	131
28	192	184	179	174	170	165	160	155	147
24	220	212	206	201	197	192	187	181	173
20	234	227	222	218	214	210	206	202	195
16	253	244	239	234	229	224	219	214	205

\* 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	1614	1320	1098	643	311	83	19	48	228	582	994	1445	8385
60	1459	1180	943	497	201	30	2	11	122	432	844	1290	7011
57	1366	1096	850	413	147	14	0	3	75	347	754	1197	6262
55	1304	1040	788	359	117	8	0	1	52	294	694	1135	5792
50	1149	900	636	239	57	1	0	0	16	180	548	980	4706
32	611	428	192	16	0	0	0	0	0	7	139	464	1857

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	20	32	117	364	744	998	1169	1094	781	448	135	42	5944
55	0	0	0	17	147	316	456	382	142	23	0	0	1483
57	0	0	0	10	116	262	394	322	106	13	0	0	1223
60	0	0	0	5	77	188	302	237	62	5	0	0	876
65	0	0	0	1	32	91	165	119	19	0	0	0	427
70	0	0	0	0	11	30	68	43	3	0	0	0	155

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	0	1	40	203	536	781	941	877	588	273	52	2	0	1	41	244	780	1561	2502	3379	3967	4240	4292	4294
45	0	0	15	118	389	631	786	722	440	165	22	0	0	0	15	133	522	1153	1939	2661	3101	3266	3288	3288
50	0	0	6	62	255	482	631	567	299	83	5	0	0	0	6	68	323	805	1436	2003	2302	2385	2390	2390
55	0	0	2	27	152	340	476	412	184	39	1	0	0	0	2	29	181	521	997	1409	1593	1632	1633	1633
60	0	0	0	11	74	208	322	262	96	11	0	0	0	0	0	11	85	293	615	877	973	984	984	984
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	24	131	326	496	623	568	351	155	27	0	0	0	24	155	481	977	1600	2168	2519	2674	2701	2701

(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)