U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: PRENTICE NO. 2, WI **COOP ID: 476859**

Climate Division: WI 2 **NWS Call Sign:** **Elevation: 1,540 Feet** **Lat: 45˚31N** **Lon: 90˚17W**

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	19.3	-3.2	8.1	54	1973	25	19.5	1990	-45+	1982	17	-2.7	1977	1767	0	.0	.0	.1	27.1	30.9	17.1
Feb	26.0	2.0	14.0	59	1976	24	30.3	1998	-47+	1996	3	3.5	1989	1428	0	.0	.0	.5	19.0	27.8	11.9
Mar	37.0	15.3	26.2	74	2000	8	35.7	2000	-44	1962	1	17.7	1996	1205	0	.0	.0	4.3	10.2	28.0	5.2
Apr	51.9	28.8	40.4	90	1952	28	46.6	1998	-6	1972	8	34.3	1975	741	0	.0	.0	17.4	1.5	19.6	.3
May	65.6	40.2	52.9	89+	1959	2	60.5	1998	14	1966	10	47.0	1983	394	19	.0	.0	29.2	@	7.4	.0
Jun	73.3	48.8	61.1	93	1963	30	65.9+	1995	21	1964	2	54.0	1982	155	37	.0	.2	29.9	.0	.9	.0
Jul	77.5	53.6	65.6	99	1995	14	70.2	1999	28	1972	4	59.2	1992	68	84	.0	1.0	31.0	.0	@	.0
Aug	75.4	51.6	63.5	98	1964	2	68.5	1995	26	1976	29	58.2	1977	110	63	.0	.4	31.0	.0	.3	.0
Sep	66.2	42.8	54.5	93	1976	7	61.3	1998	15	1967	29	48.8	1993	321	6	.0	.1	28.9	.0	4.4	.0
Oct	54.4	32.6	43.5	89	1976	1	50.9	1971	-1	1976	27	37.3	1987	667	0	.0	.0	20.8	.3	16.1	@
Nov	37.1	20.2	28.7	70+	2000	2	36.4	1999	-27+	1976	30	19.5	1995	1090	0	.0	.0	4.4	10.5	26.6	1.6
Dec	23.6	4.8	14.2	64	1998	3	23.5	1997	-43	1983	19	2.3	1983	1575	0	.0	.0	.3	24.1	30.7	11.2
Ann	50.6	28.1	39.4	99	Jul 1995	14	70.2	Jul 1999	-47+	Feb 1996	3	-2.7	Jan 1977	9521	209	.0	1.7	197.8	92.7	192.7	47.3

\+ 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/normals/usnormals.html

(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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	.94	.71	1.20	1953	15	2.23	1997	.05	1981
Feb	.67	.58	1.07	1999	12	1.96	1971	.03	1997
Mar	1.47	1.31	1.66	1973	11	3.25	1973	.21	1978
Apr	2.26	2.19	2.10	1981	4	4.38	1977	.11	1980
May	3.33	3.31	2.48	1951	16	8.41	1973	.57	1986
Jun	4.09	3.98	3.60	1968	21	7.73	2000	1.31	1983
Jul	4.04	3.70	3.49	1949	4	8.89	1999	.92	1998
Aug	4.19	3.89	3.72	1960	28	10.37	1995	1.60	1976
Sep	4.28	3.70	4.06	1994	13	10.97	1994	.66	1976
Oct	2.68	2.54	2.50	1966	15	5.17	1995	.60	1976
Nov	1.98	1.78	2.20	1975	10	7.23	1991	.23	1976
Dec	1.06	1.03	1.25	1953	4	2.83	1984	.31	1986
Ann	30.99	32.17	4.06	Sep 1994	13	10.97	Sep 1994	.03	Feb 1997

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.7	3.4	.2	.0
Feb	5.8	2.2	.1	@
Mar	7.7	3.9	.7	.2
Apr	9.2	5.4	1.3	.3
May	10.0	7.0	2.3	.7
Jun	11.8	7.9	2.8	.8
Jul	11.0	7.5	2.7	1.0
Aug	10.7	7.3	3.1	1.0
Sep	11.5	7.8	2.6	1.1
Oct	9.8	5.5	1.6	.5
Nov	8.9	4.9	1.2	.3
Dec	8.5	4.1	.3	.1
Ann	112.6	66.9	18.9	6.0

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.16	.24	.38	.51	.64	.78	.94	1.14	1.40	1.83	2.24
Feb	.08	.13	.22	.32	.42	.53	.66	.82	1.04	1.40	1.75
Mar	.23	.36	.57	.77	.98	1.21	1.47	1.79	2.22	2.91	3.57
Apr	.51	.72	1.05	1.35	1.65	1.96	2.32	2.75	3.31	4.20	5.05
May	1.03	1.34	1.81	2.22	2.61	3.02	3.47	3.99	4.67	5.73	6.71
Jun	1.80	2.17	2.68	3.09	3.48	3.87	4.29	4.77	5.37	6.29	7.12
Jul	1.58	1.95	2.48	2.93	3.34	3.77	4.23	4.76	5.44	6.48	7.43
Aug	1.61	2.00	2.56	3.02	3.46	3.91	4.39	4.95	5.66	6.76	7.76
Sep	.99	1.38	2.01	2.57	3.13	3.72	4.39	5.19	6.23	7.89	9.45
Oct	.98	1.23	1.59	1.89	2.18	2.48	2.80	3.17	3.65	4.38	5.06
Nov	.41	.59	.88	1.14	1.41	1.70	2.02	2.41	2.92	3.75	4.52
Dec	.27	.37	.52	.66	.80	.94	1.10	1.28	1.53	1.91	2.28
Ann	21.07	22.96	25.39	27.25	28.91	30.53	32.20	34.05	36.31	39.60	42.46

+ 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:
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Climate Division: WI 2 **NWS Call Sign:** **Elevation: 1,540 Feet** **Lat: 45°31N** **Lon: 90°17W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	13.0	11.5	12	11
Feb	8.5	7.9	14	12
Mar	8.8	7.5	7	3
Apr	3.8	3.3	1	#
May	.2	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.9	.0	#	0
Nov	4.3	3.4	1	1
Dec	11.2	10.2	5	4
Ann	50.7	43.8	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	7.0	1996	19	28.9	1971	34	1997	31	22	1996
Feb	12.0	1971	5	23.2	1971	34	1997	2	28+	1997
Mar	12.0	1989	4	25.0	1989	35	1972	7	22	1996
Apr	12.0	1982	20	15.5	1982	20	1996	4	9	1996
May	3.8	1979	5	3.8	1979	2	1979	5	#+	1997
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	1.0	1995	22	1.0	1995	0	0	0	0	0
Oct	4.5	1986	14	5.0	1982	5	1986	14	#+	1997
Nov	10.5	1978	17	13.7	1978	11	1991	24	4	1978
Dec	10.0	1985	2	29.0	1985	22	1996	31	13	1995
Ann	12.0+	Mar 1989	4	29.0	Dec 1985	35	Mar 1972	7	28+	Feb 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.5	4.9	1.9	.4	.0
Feb	5.2	3.2	1.0	.2	@
Mar	4.7	3.1	1.2	.4	.1
Apr	2.1	1.2	.4	.1	@
May	.1	.1	@	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	@	@	.0	.0	.0
Oct	.7	.5	.1	.0	.0
Nov	4.1	2.7	.7	.2	@
Dec	7.5	5.0	1.1	.3	@
Ann	31.9	20.7	6.4	1.6	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	30.2	28.2	28.2	14.8
Feb	-9.9	-9.9	-9.9	-9.9
Mar	13.4	11.8	10.8	6.6
Apr	2.9	1.9	1.1	.2
May	.1	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.2	.1	@	.0
Nov	5.7	3.3	1.4	.3
Dec	24.2	20.1	15.1	4.0
Ann	-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	7/05	6/28	6/23	6/19	6/15	6/11	6/07	6/02	5/27
32	6/18	6/13	6/09	6/06	6/03	5/31	5/28	5/24	5/19
28	6/08	6/01	5/27	5/23	5/19	5/15	5/10	5/05	4/28
24	5/18	5/13	5/09	5/06	5/03	4/30	4/27	4/23	4/18
20	5/03	4/28	4/24	4/21	4/18	4/15	4/12	4/08	4/02
16	4/22	4/18	4/15	4/12	4/10	4/07	4/05	4/02	3/29

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	8/08	8/15	8/21	8/25	8/30	9/03	9/08	9/13	9/21
32	8/26	9/01	9/05	9/09	9/12	9/16	9/19	9/24	9/30
28	9/09	9/15	9/19	9/22	9/25	9/28	10/01	10/05	10/10
24	9/21	9/26	9/30	10/04	10/07	10/10	10/14	10/18	10/23
20	10/03	10/08	10/12	10/15	10/18	10/21	10/24	10/27	11/01
16	10/12	10/17	10/22	10/25	10/29	11/01	11/05	11/09	11/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	111	99	90	82	75	68	60	51	38
32	125	116	110	105	100	96	90	84	76
28	155	146	139	134	128	123	118	111	102
24	180	172	166	161	157	152	147	141	133
20	206	198	192	187	182	178	172	167	158
16	224	216	210	206	201	197	192	186	179

***** 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

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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	1767	1428	1205	741	394	155	68	110	321	667	1090	1575	9521
60	1612	1288	1050	593	270	72	16	40	194	515	940	1420	8010
57	1519	1204	957	507	207	39	6	18	132	427	850	1327	7193
55	1457	1148	895	451	171	24	1	9	98	371	790	1265	6680
50	1302	1008	741	321	96	6	0	1	39	244	641	1110	5509
32	756	535	268	39	2	0	0	0	0	16	194	584	2394

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	12	31	86	289	650	872	1040	976	675	372	94	31	5128
55	0	0	0	11	106	206	327	272	83	13	0	0	1018
57	0	0	0	7	80	161	270	218	57	8	0	0	801
60	0	0	0	3	50	104	187	148	29	3	0	0	524
65	0	0	0	0	19	37	84	63	6	0	0	0	209
70	0	0	0	0	6	9	22	16	0	0	0	0	53

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	0	21	140	435	652	810	746	461	191	23	1	0	0	21	161	596	1248	2058	2804	3265	3456	3479	3480
45	0	0	6	75	295	504	655	591	322	103	8	0	0	0	6	81	376	880	1535	2126	2448	2551	2559	2559
50	0	0	0	35	182	359	500	437	206	46	2	0	0	0	0	35	217	576	1076	1513	1719	1765	1767	1767
55	0	0	0	14	100	229	347	290	111	17	0	0	0	0	0	14	114	343	690	980	1091	1108	1108	1108
60	0	0	0	5	47	123	209	160	51	2	0	0	0	0	0	5	52	175	384	544	595	597	597	597
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	14	104	280	410	523	474	282	120	13	0	0	0	14	118	398	808	1331	1805	2087	2207	2220	2220

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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