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: PRAIRIE DU SAC 2 N, WI **COOP ID: 476838**

Climate Division: WI 7 **NWS Call Sign:** **Elevation: 780 Feet** **Lat: 43˚19N** **Lon: 89˚44W**

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	25.4	6.4	15.9	57	1989	31	26.9	1990	-42	1951	30	2.7	1977	1523	0	.0	.0	.3	21.4	30.7	10.4
Feb	31.3	11.3	21.3	63	1984	22	34.5	1998	-31	1996	3	9.6	1979	1224	0	.0	.0	1.5	14.2	27.1	6.4
Mar	42.2	23.0	32.6	81+	2000	8	40.6	2000	-28	1962	1	25.2	1975	1005	0	.0	.0	7.9	5.7	24.8	1.1
Apr	56.3	35.7	46.0	94	1980	22	52.8	1977	9	1982	7	40.3	1975	571	1	.0	@	21.2	.4	10.2	.0
May	70.0	47.2	58.6	92+	1991	28	66.0	1977	25	1989	7	52.4	1997	245	46	.0	.3	30.5	.0	.7	.0
Jun	79.6	56.1	67.9	101+	1988	21	71.8	1991	38	1993	1	62.2	1982	43	128	.1	2.7	30.0	.0	.0	.0
Jul	83.4	60.5	72.0	103	1995	13	75.8	1999	45+	1972	5	67.2	1992	8	223	.2	5.0	31.0	.0	.0	.0
Aug	80.3	58.5	69.4	102+	1988	17	75.2	1995	38	1986	28	64.9	1992	33	169	.1	2.1	31.0	.0	.0	.0
Sep	71.9	49.5	60.7	98+	1978	8	66.0	1978	26	1974	22	55.2	1993	161	33	.0	.6	29.9	.0	.7	.0
Oct	59.6	38.4	49.0	91	1963	6	54.8	1971	14	1988	30	43.2	1988	497	2	.0	.0	26.0	.0	7.3	.0
Nov	43.2	25.6	34.4	78+	2000	1	41.4	1999	-9	1977	26	27.2	1976	917	0	.0	.0	8.6	4.4	22.0	.3
Dec	30.2	13.5	21.9	65+	2001	6	29.3	1998	-23	1983	24	10.4	1983	1338	0	.0	.0	1.2	16.7	29.7	5.1
Ann	56.1	35.5	45.8	103	Jul 1995	13	75.8	Jul 1999	-42	Jan 1951	30	2.7	Jan 1977	7565	602	.4	10.7	219.1	62.8	153.2	23.3

\+ 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: 1947-2001

(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	1.03	.85	1.12	1967	24	2.23	1999	.12	1981
Feb	1.07	.93	1.37	1999	12	3.04	1971	.05	1995
Mar	1.98	1.76	2.70	1998	31	4.62	1976	.23	1978
Apr	3.15	2.60	3.15	1999	5	8.31	1999	1.07	1997
May	3.06	2.76	2.88	1978	13	5.75	2000	.14	1981
Jun	3.95	3.12	3.27	2000	1	9.20	2000	1.16	1992
Jul	3.80	3.43	5.05	1951	21	9.19	1993	1.77	1990
Aug	4.31	3.99	5.73	2001	1	11.41	1980	.90	1978
Sep	3.20	2.77	4.27	1965	9	9.74	1986	.40+	1979
Oct	2.21	2.00	2.08	1959	23	5.06	1984	.52	1975
Nov	2.05	1.60	2.44	1975	29	4.95	1992	.05	1976
Dec	1.21	1.13	1.73	1968	19	2.65+	1972	.18	1998
Ann	31.02	31.06	5.73	Aug 2001	1	11.41	Aug 1980	.05+	Feb 1995

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.2	3.7	.3	@
Feb	6.5	3.0	.5	.1
Mar	8.5	4.8	1.5	.3
Apr	10.7	6.8	2.3	.6
May	10.0	6.2	2.0	.6
Jun	9.8	6.7	2.5	.9
Jul	9.8	6.7	2.9	1.1
Aug	10.1	7.1	3.1	1.4
Sep	9.1	6.2	2.3	.8
Oct	8.9	5.3	1.5	.3
Nov	9.3	5.2	.9	.3
Dec	8.3	3.5	.6	.1
Ann	109.2	65.2	20.4	6.5

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	.23	.32	.47	.61	.75	.89	1.05	1.25	1.51	1.92	2.30
Feb	.14	.22	.38	.52	.68	.86	1.06	1.31	1.64	2.19	2.73
Mar	.35	.53	.82	1.09	1.36	1.66	2.01	2.42	2.97	3.86	4.71
Apr	1.13	1.42	1.85	2.21	2.56	2.91	3.30	3.74	4.32	5.20	6.01
May	.78	1.06	1.51	1.90	2.29	2.70	3.15	3.69	4.40	5.52	6.56
Jun	.96	1.33	1.91	2.42	2.93	3.47	4.07	4.79	5.73	7.21	8.61
Jul	1.68	2.02	2.49	2.88	3.24	3.60	3.99	4.44	5.00	5.86	6.63
Aug	1.54	1.94	2.53	3.02	3.50	3.98	4.51	5.12	5.91	7.12	8.23
Sep	.42	.68	1.14	1.59	2.05	2.57	3.17	3.91	4.91	6.54	8.12
Oct	.55	.76	1.08	1.37	1.65	1.95	2.28	2.68	3.19	4.01	4.78
Nov	.35	.53	.83	1.11	1.40	1.71	2.07	2.50	3.08	4.01	4.90
Dec	.24	.35	.52	.69	.85	1.03	1.23	1.48	1.80	2.31	2.80
Ann	24.27	25.63	27.34	28.62	29.75	30.83	31.94	33.15	34.61	36.70	38.48

\+ 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: 1947-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	8.1	4.7	5	3	10.0	1996	26	22.2	1971	30	1979	31	21	1979	5.5	2.9	1.0	.3	@	20.9	12.9	10.4	6.1
Feb	5.5	4.7	4	3	10.0	1993	21	20.2	1975	21	1979	21	19	1979	3.7	2.1	.5	.2	@	18.0	12.1	8.4	2.9
Mar	4.0	3.0	1	#	7.0	1971	18	11.0	1975	14	1979	1	6	1979	2.5	1.1	.3	.1	.0	7.1	4.2	2.6	.1
Apr	1.3	.0	#	0	11.6	1973	9	16.2	1973	14	1973	9	2	1973	.8	.3	.1	@	@	.7	.2	.2	@
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	#	1989	20	#+	1989	#+	1992	19	#+	1992	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.9	.5	#	#	5.0	1977	27	9.0	1977	30	1971	30	4	1971	1.7	.9	.2	@	.0	1.4	.6	.2	.0
Dec	7.2	7.0	2	1	10.0	1985	1	23.5	1987	16	1985	29	15	1985	3.9	1.9	.5	.2	.1	11.4	6.2	2.3	.4
Ann	28.0	19.9	N/A	N/A	11.6	Apr 1973	9	23.5	Dec 1987	30+	Jan 1979	31	21	Jan 1979	18.1	9.2	2.6	.8	.1	59.5	36.2	24.1	9.5

+ 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	5/22	5/17	5/13	5/10	5/07	5/04	5/01	4/27	4/22
32	5/10	5/06	5/03	5/01	4/28	4/26	4/24	4/21	4/17
28	4/29	4/25	4/22	4/20	4/17	4/15	4/12	4/09	4/05
24	4/16	4/13	4/10	4/08	4/06	4/04	4/01	3/30	3/26
20	4/12	4/08	4/05	4/02	3/31	3/28	3/26	3/23	3/18
16	4/07	4/02	3/29	3/26	3/23	3/20	3/16	3/13	3/07

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	9/13	9/17	9/20	9/23	9/25	9/28	9/30	10/03	10/08
32	9/20	9/25	9/28	10/01	10/04	10/06	10/09	10/12	10/17
28	9/30	10/06	10/10	10/14	10/17	10/21	10/24	10/28	11/03
24	10/14	10/19	10/22	10/25	10/28	10/31	11/03	11/06	11/11
20	10/25	10/30	11/02	11/04	11/07	11/09	11/12	11/15	11/19
16	10/30	11/05	11/09	11/13	11/16	11/19	11/23	11/27	12/03

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	159	153	148	144	141	137	133	128	122
32	174	168	164	161	157	154	151	147	141
28	205	197	192	187	182	178	173	168	160
24	222	216	212	208	205	201	197	193	187
20	239	232	228	224	220	217	213	208	202
16	262	253	247	242	237	233	228	222	213

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1523	1224	1005	571	245	43	8	33	161	497	917	1338	7565
60	1368	1084	850	427	147	11	0	7	72	351	767	1183	6267
57	1275	1000	757	345	101	4	0	2	38	271	677	1090	5560
55	1213	944	695	294	76	2	0	0	23	224	618	1028	5117
50	1058	804	545	183	32	0	0	0	4	124	473	873	4096
32	538	355	134	6	0	0	0	0	0	2	94	378	1507

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	38	55	152	427	824	1075	1238	1159	862	530	167	63	6590
55	0	0	0	24	187	387	525	446	195	38	0	0	1802
57	0	0	0	15	150	329	463	386	150	24	0	0	1517
60	0	0	0	7	103	246	370	298	94	10	0	0	1128
65	0	0	0	1	46	128	223	169	33	2	0	0	602
70	0	0	0	0	16	48	103	77	7	0	0	0	251

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	3	54	240	595	854	1013	928	646	317	59	5	0	3	57	297	892	1746	2759	3687	4333	4650	4709	4714
45	0	0	21	139	442	704	858	773	498	193	25	0	0	0	21	160	602	1306	2164	2937	3435	3628	3653	3653
50	0	0	8	74	297	554	703	618	353	106	5	0	0	0	8	82	379	933	1636	2254	2607	2713	2718	2718
55	0	0	3	33	179	405	548	463	228	46	1	0	0	0	3	36	215	620	1168	1631	1859	1905	1906	1906
60	0	0	0	15	90	262	393	312	124	16	0	0	0	0	0	15	105	367	760	1072	1196	1212	1212	1212
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	39	150	355	551	681	614	393	182	31	3	0	0	39	189	544	1095	1776	2390	2783	2965	2996	2999

(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