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 CHIEN, WI **COOP ID: 476827**

Climate Division: WI 7 **NWS Call Sign:** **Elevation: 658 Feet** **Lat: 43˚02N** **Lon: 91˚09W**

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	6.2	15.8	57+	1981	26	27.1	1990	-37+	1963	15	1.8	1977	1525	0	.0	.0	.6	19.3	30.1	9.5
Feb	32.3	11.8	22.1	66	2000	26	33.3	1998	-36	1996	3	9.9	1979	1203	0	.0	.0	2.2	12.2	25.8	5.5
Mar	44.7	23.9	34.3	86	1986	29	41.7	1973	-33	1962	1	25.5	1975	951	0	.0	.0	11.4	3.7	22.8	.9
Apr	59.2	36.5	47.9	96	1980	22	55.0	1977	0	1972	8	41.7	1975	519	4	.0	.2	24.5	.1	9.4	@
May	70.8	47.7	59.3	94	1967	26	66.8	1977	22	1989	6	53.1	1997	228	49	.0	.9	30.8	.0	1.0	.0
Jun	80.6	57.8	69.2	102	1988	21	73.4	1988	37+	1993	1	64.1	1982	28	155	.1	4.1	30.0	.0	.0	.0
Jul	84.4	62.1	73.3	105	1955	30	77.4	1983	43	1971	30	67.5	1992	10	264	.4	8.6	31.0	.0	.0	.0
Aug	81.8	60.1	71.0	104	1988	17	77.1	1983	38	1964	14	65.3	1992	27	212	.4	5.2	31.0	.0	.0	.0
Sep	73.8	50.5	62.2	99	1955	9	67.9	1978	27+	1984	30	56.0	1993	135	48	.0	1.8	29.9	.0	.6	.0
Oct	62.5	39.3	50.9	93	1963	6	58.1	1971	13	1988	30	45.3	1988	440	3	.0	.2	28.3	.0	6.8	.0
Nov	44.6	26.0	35.3	82	1999	10	44.5	1999	-17	1977	26	28.1	1976	891	0	.0	.0	11.5	3.3	19.6	.3
Dec	31.1	13.9	22.5	66	2001	6	31.1	1982	-26	1950	27	10.1	2000	1318	0	.0	.0	1.4	13.9	29.1	4.9
Ann	57.6	36.3	47.0	105	Jul 1955	30	77.4	Jul 1983	-37+	Jan 1963	15	1.8	Jan 1977	7275	735	.9	21.0	232.6	52.5	145.2	21.1

\+ 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

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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	1.02	.92	.95	1950	26	2.95	1996	.13	1981
Feb	1.17	1.07	1.66	1986	5	3.27	1971	.04	1995
Mar	2.02	1.80	2.80	1998	31	4.61	1998	.00	1994
Apr	3.61	3.10	2.15	1960	17	6.73	1999	1.61	1982
May	3.86	3.71	3.00	1993	2	6.75	1993	.77	1988
Jun	4.41	3.62	4.53	1991	15	9.98	1993	.55	1988
Jul	3.70	3.53	4.13	1950	16	7.33	1972	.55	1975
Aug	4.61	3.78	4.70	1981	2	10.18	1980	.76	1984
Sep	3.05	2.37	3.37	1991	12	7.00	1986	.25	1990
Oct	2.34	2.22	2.23	1997	13	5.63	1984	.00	1975
Nov	2.34	2.20	2.17	1956	15	5.92	1991	.12	1976
Dec	1.30	1.29	1.30	1985	2	2.94	1987	.19	1998
Ann	33.43	33.11	4.70	Aug 1981	2	10.18	Aug 1980	.00+	Mar 1994

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.3	3.5	.3	.0
Feb	5.2	3.1	.7	.2
Mar	6.9	4.6	1.3	.3
Apr	9.6	7.5	2.7	.6
May	10.0	7.7	2.6	.7
Jun	9.7	7.1	2.7	1.2
Jul	8.7	6.6	2.8	1.0
Aug	9.0	6.7	3.3	1.4
Sep	7.2	5.6	2.2	.7
Oct	6.9	4.9	1.6	.4
Nov	7.5	5.3	1.4	.6
Dec	6.3	3.8	.6	@
Ann	93.3	66.4	22.2	7.1

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	.28	.38	.53	.66	.78	.91	1.06	1.23	1.45	1.81	2.13
Feb	.11	.20	.36	.52	.70	.90	1.13	1.43	1.83	2.51	3.17
Mar	.29	.55	.89	1.18	1.46	1.76	2.09	2.48	3.00	3.83	4.60
Apr	1.45	1.78	2.25	2.64	3.00	3.38	3.78	4.24	4.83	5.74	6.56
May	1.43	1.79	2.31	2.75	3.16	3.58	4.04	4.57	5.25	6.29	7.25
Jun	.91	1.31	1.96	2.55	3.14	3.78	4.50	5.37	6.51	8.34	10.07
Jul	.99	1.34	1.87	2.34	2.80	3.28	3.82	4.46	5.29	6.59	7.81
Aug	1.32	1.76	2.42	3.00	3.55	4.14	4.78	5.54	6.53	8.07	9.51
Sep	.52	.78	1.23	1.65	2.08	2.54	3.08	3.73	4.59	5.99	7.33
Oct	.57	.91	1.29	1.59	1.88	2.17	2.48	2.84	3.31	4.03	4.70
Nov	.44	.65	1.00	1.31	1.64	1.98	2.38	2.86	3.49	4.50	5.47
Dec	.26	.38	.57	.74	.92	1.11	1.33	1.58	1.93	2.47	2.99
Ann	23.85	25.71	28.09	29.89	31.50	33.05	34.65	36.41	38.56	41.66	44.35

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

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	9.7	9.0	5	2
Feb	7.9	8.5	6	4
Mar	4.2	3.8	2	#
Apr	1.6	.0	#	0
May	.0	.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	.0	#	0
Nov	2.6	1.0	#	0
Dec	8.5	6.0	2	#
Ann	34.7	28.3	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	14.0	1971	4	17.8	1978	30	1979	24	21	1979
Feb	12.0	1983	3	21.2	1994	21	1979	12	19	1979
Mar	7.0	1995	7	13.0	1972	12	1975	7	7	1979
Apr	12.0	1973	9	18.0	1973	18	1973	10	2	1973
May	.0	0	0	.0	0	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Oct	4.0	1997	27	4.0	1997	1	1972	18	#	1972
Nov	8.0	1991	24	14.0	1977	11	1977	28	2	1977
Dec	12.0	1985	1	25.0	1985	19	2000	30	11	2000
Ann	14.0	Jan 1971	4	25.0	Dec 1985	30	Jan 1979	24	21	Jan 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.8	4.6	1.7	.6	.1
Feb	3.5	3.2	1.1	.3	@
Mar	1.9	1.7	.7	.2	.0
Apr	.7	.6	.2	.1	@
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.1	.1	@	.0	.0
Nov	1.4	1.3	.5	.1	.0
Dec	4.3	4.0	1.2	.6	@
Ann	16.7	15.5	5.4	1.9	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	3.6	1.8	.4	.0
Apr	.8	.5	.3	.2
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.1	.0	.0	.0
Nov	1.8	.9	.3	.1
Dec	-9.9	-9.9	-9.9	-9.9
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	5/27	5/22	5/19	5/15	5/13	5/10	5/07	5/03	4/28
32	5/15	5/10	5/06	5/04	5/01	4/28	4/25	4/22	4/17
28	5/01	4/26	4/22	4/19	4/16	4/13	4/10	4/06	4/01
24	4/21	4/16	4/13	4/10	4/07	4/05	4/02	3/29	3/25
20	4/13	4/08	4/05	4/02	3/30	3/28	3/25	3/21	3/17
16	4/06	3/31	3/27	3/24	3/21	3/18	3/14	3/10	3/05

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	9/18	9/21	9/24	9/26	9/28	10/01	10/03	10/06	10/09
32	9/24	9/27	9/30	10/02	10/04	10/06	10/08	10/11	10/15
28	9/30	10/06	10/09	10/13	10/16	10/19	10/22	10/26	10/31
24	10/14	10/19	10/22	10/25	10/28	10/31	11/02	11/06	11/11
20	10/26	10/30	11/03	11/05	11/08	11/10	11/13	11/16	11/21
16	11/04	11/09	11/12	11/15	11/18	11/21	11/24	11/27	12/02

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	156	150	146	142	138	134	131	126	120
32	170	165	161	158	155	153	150	146	141
28	206	198	192	187	182	178	172	167	158
24	223	216	211	207	203	199	195	190	183
20	242	235	230	226	222	218	213	208	201
16	265	257	251	246	241	237	232	226	218

***** 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	1525	1203	951	519	228	28	10	27	135	440	891	1318	7275
60	1370	1063	796	380	134	6	0	6	56	298	741	1163	6013
57	1277	979	703	303	91	2	0	1	28	223	651	1070	5328
55	1215	923	643	256	68	1	0	0	16	180	593	1008	4903
50	1060	785	499	156	28	0	0	0	2	93	454	853	3930
32	545	346	119	5	0	0	0	0	0	1	97	365	1478

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	43	67	191	480	844	1116	1277	1208	904	588	196	70	6984
55	0	0	2	40	199	427	564	495	230	53	2	0	2012
57	0	0	1	27	160	368	502	434	182	35	1	0	1710
60	0	0	0	14	110	282	409	346	120	16	0	0	1297
65	0	0	0	4	49	155	264	212	48	3	0	0	735
70	0	0	0	0	17	63	142	111	13	0	0	0	346

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	8	84	310	649	904	1062	997	719	397	88	7	0	8	92	402	1051	1955	3017	4014	4733	5130	5218	5225
45	0	0	43	194	494	754	907	842	569	261	38	3	0	0	43	237	731	1485	2392	3234	3803	4064	4102	4105
50	0	0	19	110	345	604	752	687	423	156	17	1	0	0	19	129	474	1078	1830	2517	2940	3096	3113	3114
55	0	0	8	54	218	454	597	532	288	80	4	0	0	0	8	62	280	734	1331	1863	2151	2231	2235	2235
60	0	0	2	24	119	309	442	377	176	35	0	0	0	0	2	26	145	454	896	1273	1449	1484	1484	1484
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	1	56	197	404	599	717	668	459	242	51	2	0	1	57	254	658	1257	1974	2642	3101	3343	3394	3396

(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