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: MONDOVI, WI **COOP ID: 475563**

Climate Division: WI 4 **NWS Call Sign:** **Elevation: 830 Feet** **Lat: 44˚34N** **Lon: 91˚41W**

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	24.2	4.0	14.1	55+	1981	26	26.6	1990	-45	1951	30	1.7	1977	1578	0	.0	.0	.2	21.9	30.8	13.6
Feb	31.4	10.2	20.8	61+	2000	29	32.9	1998	-39	1996	3	10.0	1978	1237	0	.0	.0	1.4	14.1	27.1	8.3
Mar	43.3	22.3	32.8	83	1986	29	41.6	2000	-34	1962	1	23.8	1975	998	0	.0	.0	8.4	5.4	25.2	2.4
Apr	59.6	34.9	47.3	91+	1952	30	54.8	1977	1	1982	6	40.4	1975	536	3	.0	.0	23.3	.3	13.5	.0
May	72.0	46.4	59.2	97	2001	16	67.7	1977	20	1967	3	53.9	1997	226	47	.0	.2	30.7	.0	2.9	.0
Jun	79.9	55.9	67.9	99	1985	8	72.3	1988	32	1992	21	62.7	1982	44	130	.0	2.1	30.0	.0	@	.0
Jul	83.5	60.7	72.1	101+	1988	31	75.8	1999	40	1980	23	66.2	1992	11	231	@	4.3	31.0	.0	.0	.0
Aug	80.9	58.6	69.8	104	1948	24	75.6	1988	34	1958	25	65.5	1992	27	175	.1	1.7	31.0	.0	.0	.0
Sep	72.3	49.7	61.0	101	1978	7	67.4	1978	22	1949	29	54.7	1993	160	39	@	.5	29.8	.0	1.1	.0
Oct	60.7	38.2	49.5	90+	1997	3	55.3	1973	9	1952	20	44.4	1976	484	1	.0	@	26.3	@	10.8	.0
Nov	42.3	25.2	33.8	78	1999	8	41.6	1999	-13	1991	26	25.9	1991	938	0	.0	.0	8.0	5.9	23.4	1.0
Dec	28.5	11.1	19.8	65	1998	1	28.5	1997	-38	1983	19	6.4	1983	1401	0	.0	.0	.8	18.4	30.2	7.9
Ann	56.6	34.8	45.7	104	Aug 1948	24	75.8	Jul 1999	-45	Jan 1951	30	1.7	Jan 1977	7640	626	.1	8.8	220.9	66.0	165.0	33.2

\+ 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	1.03	.97	1.15	1967	24	2.60	1996	.03	1974
Feb	.85	.70	1.42	1984	12	2.61	1998	.01	1987
Mar	2.06	1.97	1.89	1993	31	4.55	1998	.42	1980
Apr	3.20	2.74	2.90	1980	9	7.44	1999	1.04	1997
May	3.88	3.62	3.16	1975	23	7.26	1982	1.26	1972
Jun	4.14	3.52	3.74	1990	13	9.24	2000	1.20	1983
Jul	4.54	3.96	3.68	1955	8	9.92	1987	.93	1974
Aug	4.24	3.67	5.04	1975	23	8.83	1975	.70	1976
Sep	4.03	3.47	6.30	1992	16	10.62	1986	.99	1976
Oct	2.17	2.03	3.12	1966	15	5.63	1979	.20	1976
Nov	2.27	1.89	4.13	1991	1	9.57	1991	.08	1976
Dec	1.15	1.20	1.56	1965	12	2.99	1982	.26	1997
Ann	33.56	33.96	6.30	Sep 1992	16	10.62	Sep 1986	.01	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.1	3.4	.2	@
Feb	6.5	2.7	.4	.1
Mar	8.5	5.2	1.0	.4
Apr	11.0	7.0	2.0	.6
May	10.6	7.2	2.7	.6
Jun	10.8	7.5	2.7	.9
Jul	10.6	7.4	3.3	1.1
Aug	9.5	6.8	2.9	1.3
Sep	9.9	6.1	2.5	1.0
Oct	8.4	4.8	1.1	.3
Nov	8.4	4.8	1.4	.4
Dec	8.1	3.5	.4	.1
Ann	110.4	66.4	20.6	6.8

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	.15	.24	.38	.53	.68	.84	1.03	1.25	1.56	2.07	2.55
Feb	.09	.15	.27	.39	.52	.66	.83	1.04	1.33	1.81	2.27
Mar	.50	.70	1.00	1.26	1.53	1.81	2.12	2.49	2.97	3.74	4.46
Apr	1.08	1.39	1.83	2.20	2.56	2.93	3.34	3.81	4.41	5.35	6.22
May	1.53	1.89	2.40	2.82	3.22	3.62	4.06	4.57	5.21	6.20	7.09
Jun	1.28	1.67	2.25	2.76	3.24	3.75	4.30	4.96	5.80	7.11	8.33
Jul	1.34	1.78	2.42	2.98	3.53	4.09	4.72	5.45	6.40	7.89	9.27
Aug	1.42	1.82	2.41	2.91	3.39	3.88	4.42	5.05	5.86	7.11	8.27
Sep	1.01	1.39	1.97	2.49	3.01	3.55	4.15	4.87	5.81	7.30	8.69
Oct	.49	.70	1.01	1.30	1.58	1.88	2.22	2.63	3.16	4.00	4.80
Nov	.27	.44	.76	1.08	1.41	1.79	2.23	2.77	3.51	4.73	5.91
Dec	.23	.34	.51	.66	.82	.99	1.17	1.40	1.70	2.18	2.64
Ann	23.45	25.39	27.88	29.78	31.47	33.10	34.79	36.67	38.94	42.24	45.11

\+ 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	9.9	9.5	7	7
Feb	6.2	5.9	8	7
Mar	8.8	9.2	4	1
Apr	1.9	1.0	#	#
May	#	.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	5.7	2.5	1	#
Dec	10.9	9.0	3	3
Ann	43.6	37.1	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	9.0	1988	20	18.4	1988	26	1996	30	19	1971
Feb	9.0	1971	5	17.0	1971	30	1971	14	25	1971
Mar	8.0	1985	31	26.3	1989	20	1971	3	15	1971
Apr	8.0	1973	9	8.3	1983	8	1973	9	2	1975
May	#	1989	6	#+	1989	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	3.3	1992	20	3.3	1992	#+	2000	7	#+	2000
Nov	11.0	1991	23	22.2	1991	12	1991	27	5	1991
Dec	11.5	1985	1	25.1	1985	15	2000	29	8	1996
Ann	11.5	Dec 1985	1	26.3	Mar 1989	30	Feb 1971	14	25	Feb 1971

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.6	4.4	1.1	.5	.0
Feb	5.2	2.8	.8	.2	.0
Mar	4.4	2.7	1.1	.6	.0
Apr	1.5	.6	.1	@	.0
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	3.8	2.1	.6	.1	@
Dec	7.4	3.7	.8	.3	@
Ann	30.0	16.4	4.5	1.7	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	25.7	20.9	16.7	3.3
Feb	20.6	17.3	13.1	7.8
Mar	10.4	7.3	5.9	2.8
Apr	1.2	.7	.3	.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	.0	.0	.0	.0
Nov	5.0	3.1	1.2	.2
Dec	20.4	13.6	7.7	.6
Ann	83.3	62.9	44.9	14.7

+ 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	6/11	6/05	6/02	5/29	5/26	5/23	5/20	5/16	5/11
32	5/31	5/26	5/22	5/18	5/15	5/12	5/09	5/04	4/29
28	5/14	5/09	5/05	5/02	4/29	4/26	4/23	4/19	4/14
24	4/30	4/25	4/21	4/18	4/16	4/13	4/10	4/06	4/01
20	4/17	4/14	4/11	4/09	4/07	4/05	4/03	3/31	3/28
16	4/13	4/09	4/06	4/03	3/31	3/28	3/26	3/22	3/18

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	9/07	9/10	9/13	9/15	9/17	9/19	9/21	9/23	9/27
32	9/18	9/22	9/24	9/26	9/28	9/30	10/03	10/05	10/09
28	9/24	9/28	10/01	10/04	10/06	10/09	10/11	10/14	10/19
24	10/05	10/10	10/13	10/17	10/20	10/23	10/26	10/29	11/04
20	10/11	10/16	10/20	10/23	10/27	10/30	11/02	11/06	11/12
16	10/22	10/28	11/01	11/04	11/07	11/10	11/14	11/18	11/23

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	131	125	120	116	113	109	105	101	94
32	152	146	142	139	135	132	128	124	119
28	178	172	167	163	159	155	152	147	140
24	207	200	195	190	186	182	178	173	166
20	222	215	210	206	202	198	194	189	182
16	243	235	230	225	220	216	211	205	198

***** 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	1578	1237	998	536	226	44	11	27	160	484	938	1401	7640
60	1423	1097	843	396	131	11	0	5	73	338	788	1246	6351
57	1330	1013	750	318	88	4	0	1	40	259	698	1153	5654
55	1268	957	690	271	64	2	0	0	24	212	639	1091	5218
50	1113	818	546	168	25	0	0	0	5	115	497	936	4223
32	588	373	150	8	0	0	0	0	0	2	119	437	1677

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	34	60	175	464	844	1077	1243	1171	869	542	171	60	6710
55	0	0	2	37	196	388	530	458	204	39	1	0	1855
57	0	0	0	25	157	330	468	397	159	24	0	0	1560
60	0	0	0	12	107	248	375	308	102	10	0	0	1162
65	0	0	0	3	47	130	231	175	39	1	0	0	626
70	0	0	0	0	16	51	115	79	9	0	0	0	270

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	4	50	249	588	827	983	914	619	304	51	3	0	4	54	303	891	1718	2701	3615	4234	4538	4589	4592
45	0	1	22	152	435	677	828	759	472	186	20	1	0	1	23	175	610	1287	2115	2874	3346	3532	3552	3553
50	0	1	9	80	292	527	673	604	331	103	5	0	0	1	10	90	382	909	1582	2186	2517	2620	2625	2625
55	0	0	1	41	176	379	518	449	211	47	1	0	0	0	1	42	218	597	1115	1564	1775	1822	1823	1823
60	0	0	0	16	91	241	365	296	113	17	0	0	0	0	0	16	107	348	713	1009	1122	1139	1139	1139
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	34	175	374	540	660	603	385	192	30	1	0	1	35	210	584	1124	1784	2387	2772	2964	2994	2995

(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