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: DODGEVILLE, WI **COOP ID: 472173**

Climate Division: WI 7 **NWS Call Sign:** **Elevation: 1,110 Feet** **Lat: 42˚59N** **Lon: 90˚07W**

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	24.7	6.4	15.6	58	1967	25	26.3	1990	-33	1994	19	3.3	1977	1534	0	.0	.0	.2	22.5	30.7	10.5
Feb	30.5	11.9	21.2	62	2000	26	33.5	1998	-32	1996	3	10.3	1979	1227	0	.0	.0	1.3	15.1	27.1	6.3
Mar	42.5	23.2	32.9	83	1986	30	41.1	1973	-21	1962	1	25.5	1975	997	0	.0	.0	7.9	5.6	25.5	.9
Apr	56.6	34.4	45.5	93	1980	22	53.0	1977	8	1954	3	40.2	1975	586	1	.0	@	21.2	.5	13.2	.0
May	68.5	45.6	57.1	90	1953	30	64.6	1977	24+	1989	7	50.6	1997	276	29	.0	.0	30.3	.0	1.9	.0
Jun	78.2	55.0	66.6	100+	1988	22	71.3	1971	33	1998	8	61.9	1982	56	104	.1	1.1	30.0	.0	.0	.0
Jul	81.9	59.8	70.9	100	1955	30	74.5	1983	42	1971	30	65.2	1992	15	197	.0	3.8	31.0	.0	.0	.0
Aug	79.6	57.9	68.8	101+	1988	18	75.0	1995	38	1958	25	63.1	1992	46	163	.1	1.6	31.0	.0	.0	.0
Sep	71.4	49.0	60.2	97	1955	9	65.3	1978	26+	1995	23	54.2	1993	173	28	.0	.4	29.9	.0	1.0	.0
Oct	59.6	37.5	48.6	91	1976	1	56.5	1971	12	1988	30	42.5	1987	511	1	.0	@	26.1	.0	9.9	.0
Nov	42.8	25.2	34.0	73	1964	3	40.9	1999	-12	1950	24	26.8	1995	930	0	.0	.0	9.1	5.1	22.8	.5
Dec	29.7	12.7	21.2	64	1998	3	30.8	1998	-21+	2000	25	9.4	1985	1358	0	.0	.0	1.1	17.7	30.0	6.0
Ann	55.5	34.9	45.2	101+	Aug 1988	18	75.0	Aug 1995	-33	Jan 1994	19	3.3	Jan 1977	7709	523	.2	6.9	219.1	66.5	162.1	24.2

\+ 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	1.33	1.23	1.26	1967	25	2.85	1996	.16	1981
Feb	1.33	1.26	1.54	1953	20	3.85	1971	.00	1987
Mar	2.65	2.48	4.03	1998	31	6.71	1998	.48	1994
Apr	3.66	3.14	2.40	1973	21	9.52	1973	1.12	1985
May	3.80	4.02	3.00	2000	19	8.54	2000	.43	1981
Jun	4.42	3.67	6.06	1954	22	9.90	1998	.87	1988
Jul	4.61	3.59	5.53	1977	18	11.90	1993	1.85	1976
Aug	4.63	4.00	4.76	1990	18	11.33	1981	1.56	1995
Sep	3.32	3.04	4.70	1950	19	6.92	1986	.25	1979
Oct	2.42	2.32	2.59	1954	11	6.94	1991	.62	1994
Nov	2.56	2.13	2.34	1952	17	6.37	1992	.17	1976
Dec	1.59	1.42	1.37	1990	3	3.75	1987	.33	1998
Ann	36.32	36.48	6.06	Jun 1954	22	11.90	Jul 1993	.00	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.3	4.1	.6	@
Feb	6.5	3.7	.7	.2
Mar	8.8	5.4	1.5	.3
Apr	11.4	7.9	2.3	.6
May	10.9	7.5	2.5	.9
Jun	10.3	7.4	2.6	1.2
Jul	9.9	7.1	3.1	1.3
Aug	9.7	7.3	3.0	1.4
Sep	9.2	6.3	2.2	.7
Oct	8.3	5.1	1.4	.5
Nov	9.2	5.6	1.6	.4
Dec	8.3	4.3	.6	.2
Ann	110.8	71.7	22.1	7.7

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	.40	.53	.71	.88	1.03	1.20	1.38	1.59	1.86	2.29	2.69
Feb	.12	.28	.50	.69	.89	1.11	1.35	1.65	2.04	2.68	3.29
Mar	.65	.90	1.28	1.63	1.97	2.33	2.73	3.21	3.83	4.82	5.75
Apr	1.31	1.65	2.15	2.57	2.97	3.38	3.82	4.34	5.00	6.02	6.96
May	.98	1.34	1.89	2.38	2.86	3.36	3.92	4.59	5.46	6.83	8.11
Jun	1.18	1.60	2.24	2.80	3.35	3.93	4.57	5.33	6.32	7.87	9.32
Jul	1.53	1.96	2.61	3.15	3.68	4.22	4.81	5.50	6.39	7.78	9.05
Aug	1.51	1.95	2.60	3.15	3.68	4.23	4.83	5.53	6.43	7.83	9.13
Sep	.56	.85	1.33	1.79	2.25	2.76	3.35	4.05	5.00	6.53	8.00
Oct	.62	.85	1.20	1.51	1.81	2.13	2.49	2.92	3.47	4.35	5.17
Nov	.58	.81	1.19	1.52	1.86	2.22	2.62	3.10	3.73	4.74	5.69
Dec	.36	.50	.74	.95	1.16	1.38	1.63	1.93	2.33	2.96	3.55
Ann	25.40	27.50	30.20	32.25	34.08	35.84	37.67	39.70	42.15	45.72	48.82

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	9.4	8.2	6	4
Feb	7.4	6.1	6	5
Mar	6.9	5.4	2	1
Apr	2.2	.4	#	#
May	.1	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.6	.0	#	0
Nov	4.9	4.0	#	#
Dec	10.8	8.3	4	3
Ann	42.3	32.4	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	1971	4	25.2	1979	29	1979	25	19	1979
Feb	9.5	1975	24	22.2	1975	25	1979	14	21	1979
Mar	14.0	1971	19	21.9	1971	23	1975	7	15	1975
Apr	8.0	1973	9	15.5	1973	15	1973	11	2	1973
May	.5	1997	1	1.0	1997	1	1997	15	#	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	.0	0	0	.0	0	0	0	0	0	0
Oct	5.0	1997	27	5.0	1997	5	1997	27	#+	1997
Nov	8.0	1995	28	12.0+	1985	10	1977	30	2	1977
Dec	14.0	1990	3	26.5	1987	21	2000	18	16	1985
Ann	14.0+	Dec 1990	3	26.5	Dec 1987	29	Jan 1979	25	21	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.7	4.0	1.6	.4	.0
Feb	4.3	3.0	.9	.2	.0
Mar	2.8	2.0	.9	.3	@
Apr	1.0	.7	.3	.1	.0
May	.1	.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	.3	.2	.1	@	.0
Nov	2.3	2.0	.6	.2	.0
Dec	5.0	3.7	1.4	.5	@
Ann	21.5	15.6	5.8	1.7	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	23.5	17.5	14.4	8.2
Feb	21.3	18.6	13.3	6.7
Mar	9.1	6.3	4.7	2.0
Apr	1.1	.5	.2	.1
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	4.4	2.1	1.1	.1
Dec	18.0	12.1	7.1	2.2
Ann	77.7	57.2	40.8	19.3

+ 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	6/07	6/01	5/28	5/24	5/20	5/17	5/13	5/08	5/02
32	5/21	5/16	5/12	5/09	5/07	5/04	5/01	4/27	4/22
28	5/07	5/02	4/28	4/25	4/23	4/20	4/17	4/13	4/08
24	4/24	4/20	4/16	4/14	4/11	4/08	4/05	4/02	3/28
20	4/17	4/13	4/10	4/07	4/05	4/02	3/31	3/28	3/23
16	4/10	4/04	3/30	3/27	3/23	3/20	3/16	3/12	3/06

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	9/15	9/19	9/21	9/23	9/25	9/27	9/29	10/01	10/05
32	9/22	9/26	9/28	9/30	10/02	10/04	10/07	10/09	10/13
28	9/25	10/01	10/05	10/08	10/11	10/14	10/18	10/22	10/27
24	10/09	10/14	10/18	10/22	10/25	10/28	11/01	11/05	11/10
20	10/18	10/23	10/27	10/30	11/02	11/05	11/08	11/11	11/16
16	10/28	11/03	11/07	11/11	11/14	11/18	11/21	11/26	12/01

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	148	141	136	131	127	123	118	113	106
32	166	160	155	152	148	145	141	136	130
28	193	186	180	175	171	167	162	156	149
24	218	210	205	201	196	192	188	182	175
20	229	222	218	214	210	207	203	198	192
16	264	254	247	241	235	230	224	216	207

***** 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	1534	1227	997	586	276	56	15	46	173	511	930	1358	7709
60	1379	1087	842	441	168	16	1	13	79	365	780	1203	6374
57	1286	1003	749	359	117	6	0	5	43	284	690	1110	5652
55	1224	947	687	308	89	3	0	2	26	236	631	1048	5201
50	1069	807	537	194	38	0	0	0	5	135	486	893	4164
32	542	358	128	8	0	0	0	0	0	3	106	398	1543

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	30	56	155	413	777	1038	1205	1140	845	516	166	63	6404
55	0	0	0	22	152	351	492	429	181	36	1	0	1664
57	0	0	0	14	118	293	430	370	138	22	0	0	1385
60	0	0	0	6	76	213	338	285	84	10	0	0	1012
65	0	0	0	1	29	104	197	163	28	1	0	0	523
70	0	0	0	0	8	35	92	78	6	0	0	0	219

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	55	216	543	804	966	904	617	296	60	4	0	3	58	274	817	1621	2587	3491	4108	4404	4464	4468
45	0	0	27	124	394	654	811	749	467	180	22	1	0	0	27	151	545	1199	2010	2759	3226	3406	3428	3429
50	0	0	10	62	260	504	656	594	329	96	7	0	0	0	10	72	332	836	1492	2086	2415	2511	2518	2518
55	0	0	3	33	146	361	501	439	205	43	1	0	0	0	3	36	182	543	1044	1483	1688	1731	1732	1732
60	0	0	0	12	75	223	346	287	112	11	0	0	0	0	0	12	87	310	656	943	1055	1066	1066	1066
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	39	140	330	518	644	595	377	184	32	2	0	0	39	179	509	1027	1671	2266	2643	2827	2859	2861

(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