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: REEDSBURG, WI **COOP ID: 477052**

Climate Division: WI 7 **NWS Call Sign:** **Elevation: 905 Feet** **Lat: 43˚32N** **Lon: 90˚01W**

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	27.0	7.4	17.2	58	1973	26	28.2	1990	-42	1951	30	4.5	1977	1481	0	.0	.0	.5	22.4	30.8	10.7
Feb	33.4	13.2	23.3	64	1984	22	35.7	1998	-30+	1959	2	12.6	1979	1168	0	.0	.0	1.3	14.3	26.9	6.3
Mar	44.6	23.8	34.2	85	1986	29	42.1	2000	-34	1962	1	26.3	1975	954	0	.0	.0	9.2	4.6	25.2	1.3
Apr	59.0	35.0	47.0	95	1980	22	53.5	1977	2	1982	7	40.3	1975	544	2	.0	@	23.1	.2	11.6	.0
May	71.3	45.7	58.5	92+	1986	31	65.7	1977	23	1966	4	52.3	1997	243	42	.0	.2	30.7	.0	1.9	.0
Jun	79.1	55.2	67.2	103	1988	20	71.7	1988	34	1956	2	62.3	1982	47	112	.1	2.2	30.0	.0	.0	.0
Jul	82.6	60.0	71.3	104	1988	31	75.1	1988	41+	1968	3	66.1	1992	13	208	.1	4.2	31.0	.0	.0	.0
Aug	80.2	57.7	69.0	103+	1988	17	74.6	1988	35	1986	28	63.9	1992	37	159	.1	1.8	31.0	.0	.0	.0
Sep	72.3	49.4	60.9	98	1955	9	65.6	1998	24+	1974	23	56.0+	1993	157	32	.0	.2	29.9	.0	1.0	.0
Oct	60.9	38.5	49.7	91	1976	1	56.9	1971	9	1988	30	43.6	1988	476	1	.0	@	27.6	.0	8.9	.0
Nov	44.3	26.7	35.5	76	1964	3	43.2	1999	-12	1977	26	28.3	1995	886	0	.0	.0	9.1	3.6	21.8	.5
Dec	30.9	13.5	22.2	63+	2001	6	30.4	1982	-27	1989	21	10.0	2000	1328	0	.0	.0	.7	17.4	29.6	5.7
Ann	57.1	35.5	46.3	104	Jul 1988	31	75.1	Jul 1988	-42	Jan 1951	30	4.5	Jan 1977	7334	556	.3	8.6	224.1	62.5	157.7	24.5

\+ 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	1.21	1.15	1.59	1971	4	2.57	1988	.04	1981
Feb	1.15	1.09	1.20	1976	21	3.23	1971	.05	1982
Mar	2.04	2.02	1.90	1959	6	4.57	1973	.19	1978
Apr	3.54	3.37	2.05	1984	30	7.92	1973	1.33	1989
May	3.41	3.53	2.97	1950	25	6.77	1973	.40	1981
Jun	3.93	3.57	2.82	1950	13	8.88	1990	.93	1987
Jul	4.44	4.49	4.30	1985	24	8.29	1999	1.39	1990
Aug	4.19	3.82	6.07	2001	2	11.79	1980	1.57	1984
Sep	3.53	3.42	3.20	1961	13	7.93	1986	.13	1979
Oct	2.13	2.14	2.06	1959	24	4.78	1984	.44	1975
Nov	2.40	2.13	2.14	1982	12	5.50	1985	.10	1976
Dec	1.38	1.28	1.15	1985	2	2.47+	1982	.11	1989
Ann	33.35	33.92	6.07	Aug 2001	2	11.79	Aug 1980	.04	Jan 1981

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.0	3.2	.4	.1
Feb	6.9	3.4	.7	.1
Mar	9.2	5.0	1.1	.3
Apr	11.8	7.6	2.5	.7
May	11.0	6.7	2.0	.7
Jun	11.0	6.9	2.8	1.1
Jul	9.7	6.6	2.7	.9
Aug	10.4	6.4	2.2	1.0
Sep	9.9	6.2	2.2	.9
Oct	7.7	4.5	1.3	.3
Nov	8.5	5.0	1.3	.4
Dec	8.8	3.6	.7	.1
Ann	111.9	65.1	19.9	6.6

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	.27	.38	.55	.71	.87	1.04	1.24	1.47	1.77	2.25	2.70
Feb	.18	.27	.44	.60	.76	.94	1.15	1.40	1.74	2.29	2.82
Mar	.47	.66	.96	1.22	1.49	1.77	2.09	2.47	2.97	3.76	4.51
Apr	1.46	1.78	2.24	2.61	2.96	3.32	3.71	4.15	4.71	5.57	6.35
May	.99	1.32	1.80	2.23	2.64	3.06	3.54	4.09	4.81	5.94	6.99
Jun	1.26	1.63	2.18	2.65	3.11	3.58	4.09	4.69	5.46	6.67	7.78
Jul	1.85	2.25	2.82	3.29	3.73	4.18	4.66	5.21	5.91	6.97	7.94
Aug	1.55	1.94	2.50	2.98	3.43	3.89	4.39	4.97	5.71	6.85	7.89
Sep	.53	.82	1.33	1.82	2.33	2.88	3.52	4.31	5.36	7.07	8.72
Oct	.67	.87	1.17	1.43	1.68	1.93	2.22	2.55	2.97	3.63	4.25
Nov	.43	.65	1.00	1.32	1.66	2.02	2.43	2.92	3.58	4.64	5.66
Dec	.30	.43	.63	.81	1.00	1.19	1.41	1.67	2.02	2.57	3.09
Ann	26.19	27.62	29.43	30.79	31.98	33.11	34.28	35.56	37.09	39.29	41.17

\+ 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)

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	12.8	8.6	7	5	17.0	1971	4	30.1	1982	25	1971	4	18	1971	7.1	4.0	1.2	.4	.2	26.6	22.4	18.1	11.1
Feb	9.8	7.4	7	6	13.0	1976	21	23.7	1976	24	1971	6	20	1979	5.9	3.3	.9	.3	.1	22.6	18.8	15.6	10.1
Mar	7.3	6.7	3	1	14.0	1971	19	16.9	1971	16	1975	7	13	1975	4.3	2.3	.6	.1	.1	11.3	8.1	5.9	3.0
Apr	3.2	2.0	#	#	10.5	1973	9	17.5	1973	15	1973	10	2	1973	1.4	1.0	.4	.1	.1	1.4	.6	.4	.2
May	#	.0	#	0	#	1989	6	#+	1989	#	1989	6	#	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	#+	1984	27	#+	1984	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	#	0	.0	0	0	.0	0	#	1987	27	#	1987	.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	#	1972	18	#	1972	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.4	.0	#	0	6.0	1990	11	6.0	1990	6	1990	11	#+	1990	.2	.1	.1	.1	.0	.1	.1	.1	.0
Nov	5.6	2.7	1	#	10.0	1985	9	25.3	1985	11	1985	10	3	1985	2.8	1.8	.8	.2	.1	4.1	2.5	1.3	.2
Dec	11.5	10.9	4	2	12.0	1985	2	27.5	1985	19	1985	2	12	1985	6.2	3.7	1.2	.3	.1	19.8	13.9	9.6	3.2
Ann	50.6	38.3	N/A	N/A	17.0	Jan 1971	4	30.1	Jan 1982	25	Jan 1971	4	20	Feb 1979	27.9	16.2	5.2	1.5	.7	85.9	66.4	51.0	27.8

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

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	9/12	9/15	9/18	9/21	9/24	9/27	9/30	10/05
32	9/16	9/22	9/26	9/29	10/03	10/06	10/10	10/14	10/20
28	9/25	10/01	10/05	10/08	10/12	10/15	10/18	10/23	10/28
24	10/06	10/12	10/17	10/20	10/24	10/27	10/31	11/04	11/11
20	10/14	10/20	10/25	10/29	11/01	11/05	11/09	11/14	11/20
16	10/25	10/31	11/05	11/09	11/12	11/16	11/20	11/24	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	157	148	141	136	131	125	120	114	105
32	175	165	159	153	148	142	137	130	121
28	200	190	183	177	172	166	160	153	143
24	219	210	204	198	193	188	183	176	167
20	238	229	222	216	211	206	200	194	184
16	259	249	243	237	231	226	220	213	204

***** 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	1481	1168	954	544	243	47	13	37	157	476	886	1328	7334
60	1326	1028	799	402	145	12	0	9	68	330	736	1173	6028
57	1233	944	706	323	99	4	0	2	35	252	646	1080	5324
55	1171	888	645	274	74	2	0	0	21	205	588	1018	4886
50	1016	748	500	169	31	0	0	0	4	110	447	863	3888
32	498	311	112	6	0	0	0	0	0	2	90	372	1391

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	40	67	181	454	821	1055	1218	1146	866	551	195	67	6661
55	0	0	1	32	182	366	505	433	196	41	2	0	1758
57	0	0	0	21	145	309	443	373	151	26	0	0	1468
60	0	0	0	10	98	226	350	286	94	11	0	0	1075
65	0	0	0	2	42	112	208	159	32	1	0	0	556
70	0	0	0	0	14	38	99	71	6	0	0	0	228

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	51	251	581	833	991	908	634	309	59	2	0	0	51	302	883	1716	2707	3615	4249	4558	4617	4619
45	0	0	23	148	428	683	836	753	485	187	25	0	0	0	23	171	599	1282	2118	2871	3356	3543	3568	3568
50	0	0	9	79	285	533	681	598	342	97	6	0	0	0	9	88	373	906	1587	2185	2527	2624	2630	2630
55	0	0	1	38	162	383	526	444	215	38	0	0	0	0	1	39	201	584	1110	1554	1769	1807	1807	1807
60	0	0	0	17	78	242	372	292	118	16	0	0	0	0	0	17	95	337	709	1001	1119	1135	1135	1135
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	42	164	364	542	667	600	395	192	31	0	0	0	42	206	570	1112	1779	2379	2774	2966	2997	2997

(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