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: JUMP RIVER 3 E, WI **COOP ID: 474080**

Climate Division: WI 2 **NWS Call Sign:** **Elevation: 1,265 Feet** **Lat: 45˚22N** **Lon: 90˚46W**

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	20.8	-.7	10.1	54	1973	25	22.9	1990	-47	1979	2	-2.5	1977	1705	0	.0	.0	.1	25.7	30.9	15.3
Feb	27.5	5.6	16.6	61	1976	24	30.3	1998	-44+	1996	3	4.3	1978	1356	0	.0	.0	.5	17.7	27.6	10.2
Mar	39.1	17.5	28.3	79	1986	31	37.6	1973	-27+	1978	1	20.5	1975	1138	0	.0	.0	5.5	8.0	27.3	4.2
Apr	54.6	30.4	42.5	88+	1980	22	48.6	1987	-10	1975	1	35.9	1975	676	0	.0	.0	19.9	.6	17.7	.2
May	68.1	41.2	54.7	91	1970	21	60.5	1977	12	1978	1	48.2	1979	344	24	.0	.0	30.2	@	7.0	.0
Jun	75.3	49.8	62.6	94	1963	30	67.7	1991	23	1972	10	57.0	1982	125	51	.0	.5	30.0	.0	1.3	.0
Jul	79.3	54.3	66.8	98	1988	15	71.3	1988	27	1972	4	61.7	1992	52	107	.0	1.3	31.0	.0	.1	.0
Aug	77.0	52.6	64.8	100	1964	2	70.0	1995	24	1977	24	57.9	1977	94	88	.0	.8	31.0	.0	.7	.0
Sep	68.0	44.4	56.2	95	1976	7	61.6	1998	14	1976	28	50.4	1974	273	9	.0	.1	29.5	.0	4.1	.0
Oct	56.3	34.2	45.3	87+	1976	2	52.3	1971	-3	1976	27	38.1	1976	611	0	.0	.0	22.6	.1	13.9	@
Nov	38.3	21.5	29.9	71	1999	8	37.3	1999	-31	1976	30	20.1	1976	1054	0	.0	.0	5.2	9.4	25.9	1.5
Dec	24.8	6.6	15.7	61	1998	2	24.4	1997	-47	1983	19	3.9	1976	1528	0	.0	.0	.3	23.2	30.7	10.2
Ann	52.4	29.8	41.1	100	Aug 1964	2	71.3	Jul 1988	-47+	Dec 1983	19	-2.5	Jan 1977	8956	279	.0	2.7	205.8	84.7	187.2	41.6

\+ 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	.85	1.14	1996	18	3.24	1996	.04	1981
Feb	.81	.69	1.19	1981	22	2.75	1981	.03	1993
Mar	1.69	1.48	1.68	1973	11	3.80	1998	.22	1978
Apr	2.53	2.56	1.91	1951	7	5.36	1982	.49	1987
May	3.43	3.13	2.70	1951	16	7.40	1999	.92	1976
Jun	4.32	4.58	3.25	1979	16	7.67	2000	1.83	1995
Jul	4.36	3.56	4.02	1959	8	10.84	1999	1.62	1998
Aug	4.54	4.36	4.84	1983	30	10.53	1995	.92	1976
Sep	3.98	3.42	4.74	1964	2	8.86	1986	1.04	1976
Oct	2.65	2.55	2.34	1979	22	4.81	1996	.53	1976
Nov	2.31	1.79	2.97	1991	1	7.51	1991	.15	1976
Dec	1.16	1.04	1.15	1965	12	3.18	1982	.19	1999
Ann	32.81	32.94	4.84	Aug 1983	30	10.84	Jul 1999	.03	Feb 1993

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.0	3.3	.2	.1
Feb	6.3	2.5	.3	@
Mar	8.4	4.1	1.0	.3
Apr	9.6	6.0	1.6	.4
May	10.1	6.5	2.6	.9
Jun	11.0	7.3	3.0	1.0
Jul	11.0	7.3	2.8	1.2
Aug	10.7	7.2	2.8	1.4
Sep	11.2	7.2	2.8	.9
Oct	9.0	5.4	1.4	.6
Nov	9.4	5.0	1.5	.4
Dec	9.5	3.8	.3	.1
Ann	115.2	65.6	20.3	7.3

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	.13	.21	.36	.51	.66	.83	1.02	1.26	1.59	2.13	2.65
Feb	.09	.15	.27	.38	.50	.64	.80	.99	1.26	1.71	2.14
Mar	.35	.50	.75	.98	1.20	1.45	1.72	2.05	2.48	3.18	3.84
Apr	.83	1.07	1.42	1.72	2.01	2.31	2.64	3.02	3.51	4.28	4.98
May	1.22	1.54	2.01	2.40	2.78	3.16	3.58	4.07	4.69	5.66	6.54
Jun	1.96	2.34	2.87	3.30	3.70	4.10	4.53	5.03	5.65	6.58	7.43
Jul	1.46	1.87	2.48	2.99	3.48	3.99	4.55	5.20	6.04	7.33	8.53
Aug	1.67	2.10	2.71	3.22	3.71	4.20	4.75	5.37	6.17	7.41	8.54
Sep	1.35	1.73	2.28	2.74	3.19	3.65	4.15	4.73	5.49	6.65	7.72
Oct	.89	1.14	1.51	1.82	2.12	2.43	2.77	3.16	3.67	4.46	5.19
Nov	.48	.69	1.03	1.34	1.65	1.98	2.36	2.81	3.40	4.35	5.26
Dec	.25	.35	.52	.68	.83	1.00	1.19	1.41	1.71	2.18	2.62
Ann	23.23	25.08	27.46	29.26	30.86	32.41	34.02	35.79	37.94	41.06	43.75

+ 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	14.7	13.1	12	12	10.0	1996	18	35.8	1996	39	1996	31	23+	1997	8.4	4.8	2.0	.8	.1	28.9	27.5	23.9	13.6
Feb	8.9	8.5	15	12	9.0	1991	23	21.2	1981	39	1996	6	31	1996	5.3	3.0	.9	.5	.0	27.2	26.0	24.1	15.6
Mar	10.0	8.7	8	5	12.5	1996	25	30.8	1985	38	1972	10	23	1996	4.5	2.7	1.2	.5	.1	20.3	17.0	14.5	8.0
Apr	2.3	1.0	1	#	9.0	1982	20	10.0	1982	23	1975	1	7	1996	1.3	.9	.3	@	.0	2.2	1.3	.4	.0
May	.1	.0	#	0	1.5	1973	2	1.5	1973	#	1996	5	#	1996	.1	@	.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	.1	.0	0	0	1.5	1995	22	1.5	1995	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Oct	1.0	.0	#	0	7.8	1982	20	7.8	1982	5	1982	21	1	1982	.7	.3	.1	@	.0	.2	.1	.1	.0
Nov	5.7	4.3	1	1	9.5	1978	17	28.0	1991	21	1985	30	5	1991	4.3	2.1	.8	.3	.0	8.2	3.8	2.7	.4
Dec	12.7	11.8	7	4	17.0	1985	1	30.6	1996	39	1985	4	30	1985	7.6	4.3	1.4	.4	@	25.6	20.0	14.1	5.4
Ann	55.5	47.4	N/A	N/A	17.0	Dec 1985	1	35.8	Jan 1996	39+	Feb 1996	6	31	Feb 1996	32.2	18.1	6.7	2.5	.2	112.6	95.7	79.8	43.0

+ 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	7/09	7/01	6/26	6/22	6/18	6/13	6/09	6/04	5/27
32	6/23	6/17	6/13	6/09	6/06	6/02	5/29	5/25	5/19
28	6/12	6/05	5/30	5/25	5/21	5/17	5/12	5/06	4/29
24	5/22	5/15	5/11	5/06	5/03	4/29	4/24	4/20	4/13
20	5/05	4/29	4/25	4/21	4/18	4/15	4/11	4/07	4/01
16	4/22	4/17	4/14	4/11	4/08	4/06	4/03	3/30	3/26

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	8/07	8/15	8/20	8/25	8/29	9/02	9/07	9/12	9/20
32	8/19	8/26	8/31	9/05	9/09	9/13	9/17	9/22	9/29
28	9/05	9/11	9/16	9/20	9/23	9/27	10/01	10/06	10/12
24	9/16	9/23	9/28	10/02	10/06	10/10	10/14	10/19	10/26
20	9/25	10/02	10/07	10/11	10/16	10/20	10/24	10/29	11/05
16	10/11	10/17	10/21	10/25	10/28	10/31	11/04	11/08	11/14

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	111	97	88	79	72	64	56	46	33
32	125	115	107	100	94	88	82	74	63
28	155	145	137	131	125	119	112	104	94
24	186	176	168	162	156	149	143	135	125
20	211	201	193	186	180	174	167	159	148
16	225	217	212	207	202	197	193	187	179

***** 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	1705	1356	1138	676	344	125	52	94	273	611	1054	1528	8956
60	1550	1216	983	530	226	52	11	32	152	461	904	1373	7490
57	1457	1132	890	445	169	26	4	14	97	375	814	1280	6703
55	1395	1076	828	391	135	15	0	8	68	322	754	1218	6210
50	1240	936	678	268	69	3	0	0	22	205	607	1063	5091
32	703	472	230	26	0	0	0	0	0	12	179	542	2164

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	21	41	115	340	703	916	1078	1018	726	424	115	37	5534
55	0	0	0	16	125	241	365	312	104	21	0	0	1184
57	0	0	0	10	96	192	307	257	73	12	0	0	947
60	0	0	0	4	61	128	221	182	39	5	0	0	640
65	0	0	0	0	24	51	107	88	9	0	0	0	279
70	0	0	0	0	7	13	35	29	1	0	0	0	85

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	2	26	166	472	688	847	785	504	219	30	1	0	2	28	194	666	1354	2201	2986	3490	3709	3739	3740
45	0	1	12	92	328	538	692	630	356	126	10	0	0	1	13	105	433	971	1663	2293	2649	2775	2785	2785
50	0	0	2	48	210	393	537	476	233	63	2	0	0	0	2	50	260	653	1190	1666	1899	1962	1964	1964
55	0	0	0	23	111	255	384	322	132	26	1	0	0	0	0	23	134	389	773	1095	1227	1253	1254	1254
60	0	0	0	7	52	141	234	189	66	4	0	0	0	0	0	7	59	200	434	623	689	693	693	693
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	22	126	314	445	553	509	317	138	17	0	0	1	23	149	463	908	1461	1970	2287	2425	2442	2442

(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