

Climatography of the United States

No. 20

1971-2000

Station: EAGLE RIVER, WI

COOP ID: 472314

Climate Division: WI 2

NWS Call Sign:

Elevation: 1,645 Feet Lat: 45° 55N

Lon: 89° 15W

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	20.7	.0	10.4	42	1996	18	21.1	1990	-33	1994	19	-.9	1977	1693	0	.0	.0	.1	27.3	31.0	15.7
Feb	25.9	5.3	15.6	53+	2000	27	27.8	1998	-36	1996	2	5.7	1979	1383	0	.0	.0	.4	20.0	28.1	12.6
Mar	36.3	14.5	25.4	71	2000	9	33.7	1973	-21	1996	7	19.1	1996	1228	0	.0	.0	3.5	11.3	29.1	5.7
Apr	50.5	28.8	39.7	80	1991	8	46.0	1987	0+	1995	4	33.6	1975	759	0	.0	.0	14.3	2.0	22.3	.2
May	65.8	40.6	53.2	86	1999	30	61.7	1977	23+	1997	16	44.9	1997	386	21	.0	.0	27.6	@	9.8	.0
Jun	74.7	51.2	63.0	93	1995	19	67.3	1995	28	1998	5	58.0	1982	114	53	.0	.2	29.8	.0	.5	.0
Jul	78.1	55.1	66.6	97	1999	31	71.4	1983	37+	2000	19	61.0	1992	52	101	.0	.9	31.0	.0	.0	.0
Aug	75.1	54.2	64.7	93	2001	1	69.3	1983	39+	2000	19	60.3	1997	86	75	.0	.2	31.0	.0	.0	.0
Sep	65.1	43.9	54.5	90	1998	12	59.8	1994	26+	1999	21	49.1	1974	318	3	.0	@	29.4	.0	2.9	.0
Oct	52.5	33.9	43.2	80	1992	3	50.6	1971	13	1996	31	37.9	1987	675	0	.0	.0	18.9	.4	16.2	.0
Nov	36.7	21.2	29.0	69	1990	1	34.9	1999	-9	1997	24	20.8	1995	1081	0	.0	.0	3.7	10.5	27.6	1.2
Dec	24.6	7.9	16.3	57	2001	6	24.2	1994	-22+	1996	27	5.9	1989	1511	0	.0	.0	.1	23.9	30.9	10.2
Ann	50.5	29.7	40.1	97	Jul 1999	31	71.4	Jul 1983	-36	Feb 1996	2	-.9	Jan 1977	9286	253	.0	1.3	189.8	95.4	198.4	45.6

+ 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/normal/usnormals.html

Issue Date: February 2004

(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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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: EAGLE RIVER, WI

COOP ID: 472314

Climate Division: WI 2

NWS Call Sign:

Elevation: 1,645 Feet Lat: 45°55N

Lon: 89°15W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.29	1.04	1.41	1967	25	3.29	1997	.15	1974	10.3	4.4	.4	.0	.24	.35	.54	.72	.89	1.09	1.31	1.57	1.93	2.50	3.04
Feb	.80	.75	1.24	1951	26	2.41	1971	.00	1987	6.7	2.6	.3	@	.05	.13	.26	.38	.50	.63	.79	.98	1.24	1.66	2.07
Mar	1.67	1.43	1.30	1973	7	3.85	1973	.06	1974	8.3	4.4	1.1	.2	.29	.43	.68	.91	1.14	1.40	1.69	2.04	2.52	3.28	4.01
Apr	2.10	2.01	2.20	1981	4	4.95	1991	.46	1979	9.0	5.4	1.2	.1	.56	.76	1.06	1.33	1.59	1.86	2.17	2.53	3.00	3.73	4.42
May	3.17	3.08	3.23	1951	16	7.31	1999	.26	1986	10.2	6.5	2.1	.9	.88	1.18	1.64	2.04	2.43	2.84	3.29	3.82	4.52	5.60	6.62
Jun	3.52	3.30	5.35	1981	14	10.40	1981	1.50	1995	11.5	7.2	2.3	.5	1.36	1.69	2.15	2.54	2.91	3.28	3.68	4.15	4.74	5.66	6.49
Jul	3.62	3.44	2.96	1949	27	8.18	2000	.76	1975	11.4	7.6	2.6	.5	1.18	1.52	2.03	2.46	2.88	3.31	3.78	4.33	5.04	6.14	7.15
Aug	3.92	3.28	3.80	1957	23	9.57	1980	1.17	1987	10.4	7.2	2.9	1.1	1.26	1.63	2.18	2.65	3.11	3.57	4.09	4.69	5.46	6.67	7.78
Sep	3.78	3.99	4.15	1983	20	7.02	1980	.77	1976	12.2	7.7	2.7	.8	1.04	1.40	1.94	2.42	2.89	3.37	3.91	4.55	5.38	6.68	7.90
Oct	2.41	2.40	2.82	1966	15	5.73	1979	.41	1976	11.1	6.2	1.4	.4	.61	.84	1.19	1.50	1.81	2.13	2.49	2.92	3.48	4.36	5.19
Nov	2.06	1.94	2.88	1950	16	4.52	1991	.36	1981	10.3	5.5	1.1	.4	.58	.78	1.07	1.33	1.58	1.84	2.13	2.47	2.92	3.61	4.26
Dec	1.25	1.11	.93	1953	3	3.08	1996	.24	1994	10.0	4.4	.3	.0	.33	.44	.62	.78	.94	1.11	1.29	1.51	1.80	2.25	2.67
Ann	29.59	29.36	5.35	Jun 1981	14	10.40	Jun 1981	.00	Feb 1987	121.4	69.1	18.4	4.9	20.70	22.41	24.61	26.28	27.77	29.21	30.70	32.35	34.36	37.27	39.80

+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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1971-2000

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Station: EAGLE RIVER, WI

COOP ID: 472314

Climate Division: WI 2

NWS Call Sign:

Elevation: 1,645 Feet

Lat: 45° 55N

Lon: 89° 15W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	19.8	17.7	13	12	7.0	1972	25	34.7	1971	41	1971	31	26+	1997	8.2	5.5	2.0	.7	.0	-9.9	-9.9	-9.9	-9.9
Feb	10.2	9.5	15	12	9.0	1971	5	25.6	1971	53	1971	7	46	1971	5.1	3.7	.9	.3	.0	-9.9	-9.9	-9.9	-9.9
Mar	11.2	8.2	9	5	12.0	1996	25	24.0	1979	41	1971	2	33	1971	3.6	2.4	1.0	.3	.1	-9.9	-9.9	-9.9	-9.9
Apr	2.5	.0	1	#	8.0	1996	30	16.0	1996	26	1971	4	10	1971	.9	.8	.2	.2	.0	1.8	1.0	.9	.6
May	.4	.0	#	0	6.0	1979	6	6.0	1979	2	1976	2	#+	1976	.1	.1	@	@	.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	.0	.0	#	0	.0	0	0	.0	0	#	1995	22	#	1995	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.5	.0	#	0	5.0	1979	23	5.0	1979	5	1979	23	#+	2000	.3	.2	@	@	.0	.2	.1	@	.0
Nov	6.4	6.3	1	1	6.5	1993	26	15.3	2000	11	1991	25	4	1985	3.1	2.2	.5	.3	.0	-9.9	-9.9	-9.9	-9.9
Dec	6.9	-99.9	6	6	7.0	1980	30	34.5	1996	24	1996	31	13	1985	6.9	4.9	1.3	.2	.0	-9.9	-9.9	-9.9	-9.9
Ann	57.9	-9.9	N/A	N/A	12.0	Mar 1996	25	34.7	Jan 1971	53	Feb 1971	7	46	Feb 1971	28.2	19.8	5.9	2.0	.1	-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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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No. 20 1971-2000

Station: EAGLE RIVER, WI

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Climate Division: WI 2

NWS Call Sign:

Elevation: 1,645 Feet

Lat: 45° 55N

Lon: 89° 15W

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	6/24	6/19	6/16	6/13	6/10	6/07	6/04	5/31	5/26
32	6/11	6/07	6/04	6/01	5/29	5/27	5/24	5/21	5/16
28	5/31	5/27	5/23	5/20	5/18	5/15	5/12	5/08	5/04
24	5/19	5/14	5/11	5/07	5/05	5/02	4/28	4/25	4/20
20	5/05	4/30	4/26	4/23	4/20	4/17	4/13	4/09	4/04
16	4/23	4/19	4/16	4/13	4/11	4/08	4/05	4/02	3/29
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	8/25	8/30	9/02	9/05	9/07	9/10	9/12	9/15	9/20
32	9/10	9/14	9/16	9/19	9/21	9/23	9/25	9/28	10/02
28	9/21	9/25	9/28	9/30	10/02	10/04	10/06	10/09	10/13
24	9/28	10/05	10/09	10/13	10/17	10/20	10/24	10/29	11/04
20	10/14	10/19	10/23	10/26	10/29	11/01	11/04	11/08	11/13
16	10/28	11/01	11/04	11/06	11/09	11/11	11/14	11/17	11/21
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	108	101	96	92	89	85	81	76	69
32	130	125	121	117	114	110	107	103	97
28	155	149	144	140	137	133	129	125	118
24	189	180	174	169	165	160	155	149	140
20	214	207	201	196	192	187	182	177	169
16	229	223	219	215	211	208	204	200	194

* 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

Complete documentation available from:

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Station: EAGLE RIVER, WI

COOP ID: 472314

Climate Division: WI 2 NWS Call Sign: Elevation: 1,645 Feet Lat: 45° 55N Lon: 89° 15W

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	1693	1383	1228	759	386	114	52	86	318	675	1081	1511	9286
60	1538	1243	1073	611	264	45	11	26	187	521	931	1356	7806
57	1445	1159	980	524	202	22	4	10	122	431	841	1263	7003
55	1383	1103	918	467	166	12	0	4	87	373	781	1201	6495
50	1228	963	763	333	93	3	0	0	31	242	632	1046	5334
32	681	474	260	37	2	0	0	0	0	13	170	513	2150

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	11	15	55	268	660	928	1072	1012	675	361	79	25	5161
55	0	0	0	7	111	251	359	303	72	8	0	0	1111
57	0	0	0	4	85	200	301	247	47	4	0	0	888
60	0	0	0	2	53	133	215	170	22	1	0	0	596
65	0	0	0	0	21	53	101	75	3	0	0	0	253
70	0	0	0	0	7	12	31	21	0	0	0	0	71

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	13	95	352	603	814	744	451	160	18	0	0	0	13	108	460	1063	1877	2621	3072	3232	3250	3250
45	0	0	2	50	227	454	659	589	307	82	5	0	0	0	2	52	279	733	1392	1981	2288	2370	2375	2375
50	0	0	0	18	133	312	504	434	176	32	1	0	0	0	0	18	151	463	967	1401	1577	1609	1610	1610
55	0	0	0	9	66	190	351	287	87	9	0	0	0	0	0	9	75	265	616	903	990	999	999	999
60	0	0	0	1	25	95	199	157	30	0	0	0	0	0	0	1	26	121	320	477	507	507	507	507
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	11	76	233	356	505	459	265	99	11	0	0	0	11	87	320	676	1181	1640	1905	2004	2015	2015

(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:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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