

Climatography of the United States

No. 20

1971-2000

Station: NECEDAH, WI

COOP ID: 475786

Climate Division: WI 5

NWS Call Sign:

Elevation: 925 Feet Lat: 44°02N Lon: 90°05W

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	25.3	5.6	15.5	58	1981	25	27.9	1990	-46	1963	15	1.7	1977	1536	0	.0	.0	.5	21.5	30.8	12.4
Feb	32.1	11.2	21.7	64	1984	22	33.3	1998	-41	1996	3	11.0	1978	1215	0	.0	.0	1.8	13.9	26.8	8.2
Mar	43.7	22.0	32.9	85	1986	29	41.4	2000	-40	1962	1	24.8	1975	997	0	.0	.0	9.1	4.7	26.0	2.6
Apr	59.2	33.8	46.5	93	1980	22	52.6	1985	-1	1969	1	38.8	1975	557	3	.0	.1	22.9	.2	14.4	.0
May	72.5	45.5	59.0	93+	1978	27	66.0	1977	16	1966	10	53.3	1997	230	43	.0	.6	30.9	.0	4.2	.0
Jun	80.7	54.5	67.6	101	1988	21	71.9	1988	28	1964	1	61.7	1982	48	125	.1	3.6	30.0	.0	.1	.0
Jul	84.2	59.8	72.0	104+	1995	14	76.0	1983	37+	1962	31	66.3	1992	11	227	.3	6.5	31.0	.0	.0	.0
Aug	81.4	57.5	69.5	105+	1988	17	75.6	1995	28	1965	29	65.4	1992	30	168	.2	3.2	31.0	.0	@	.0
Sep	72.8	48.9	60.9	98	1978	8	65.5	1978	18	1974	22	54.7	1993	160	37	.0	.7	29.9	.0	2.3	.0
Oct	60.7	37.9	49.3	92+	1976	2	57.1	1971	5	1988	30	43.5	1976	489	2	.0	.1	26.7	.0	11.1	.0
Nov	42.8	25.6	34.2	75+	1999	9	41.7	1999	-19	1976	30	25.4	1976	924	0	.0	.0	8.7	4.8	23.1	.8
Dec	29.4	12.2	20.8	64+	2001	5	28.5	1982	-32+	1967	31	9.8	2000	1371	0	.0	.0	1.1	17.2	30.0	7.1
Ann	57.1	34.5	45.8	105+	Aug 1988	17	76.0	Jul 1983	-46	Jan 1963	15	1.7	Jan 1977	7568	605	.6	14.8	223.6	62.3	168.8	31.1

+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1953-2001

(3) Derived from 1971-2000 serially complete daily data

076-A

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: NECEDAH, WI

COOP ID: 475786

Climate Division: WI 5

NWS Call Sign:

Elevation: 925 Feet Lat: 44°02N

Lon: 90°05W

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	.97	.88	1.22	1996	18	2.57	1996	.00	1981	6.4	3.8	.3	@	.22	.36	.51	.64	.76	.89	1.02	1.18	1.38	1.69	1.98
Feb	.90	.77	1.26	1966	8	2.49	1971	.06	1995	5.0	2.9	.5	.0	.13	.20	.33	.46	.59	.73	.89	1.10	1.37	1.81	2.24
Mar	1.91	1.85	2.03	1998	31	3.72	1998	.23	1999	6.9	4.6	1.1	.3	.41	.59	.87	1.12	1.37	1.65	1.95	2.32	2.80	3.57	4.30
Apr	3.04	2.97	2.79	1994	25	6.00	1994	.84	1989	9.0	6.7	2.0	.6	1.10	1.38	1.80	2.14	2.47	2.81	3.17	3.60	4.15	4.99	5.76
May	3.46	3.25	3.27	1989	25	7.32	1973	.69	1988	9.2	6.4	2.1	1.0	1.02	1.35	1.85	2.27	2.69	3.12	3.60	4.16	4.88	6.02	7.07
Jun	3.74	3.44	3.75	2000	1	9.84	2000	.46	1983	9.2	6.8	2.5	.9	.76	1.11	1.66	2.16	2.66	3.21	3.82	4.55	5.53	7.09	8.56
Jul	4.30	3.82	4.54	1991	17	13.45	1999	.95	1998	9.3	7.4	2.9	1.0	1.25	1.65	2.27	2.80	3.32	3.86	4.46	5.16	6.07	7.50	8.83
Aug	4.66	4.09	5.00	1980	7	13.10	1980	1.11	1976	9.1	7.0	3.4	1.3	1.24	1.68	2.36	2.95	3.53	4.14	4.81	5.62	6.66	8.30	9.84
Sep	3.79	3.06	3.07	1994	26	10.31	1972	.40	1979	8.8	6.7	2.2	1.0	.55	.86	1.41	1.93	2.48	3.08	3.78	4.63	5.77	7.64	9.44
Oct	2.25	2.00	3.01	1959	24	5.68	1984	.49	2000	7.6	5.5	1.5	.3	.68	.89	1.21	1.49	1.76	2.03	2.34	2.70	3.16	3.89	4.56
Nov	2.14	1.70	1.96	1985	1	5.08	1982	.00	1976	7.2	4.7	1.4	.4	.25	.52	.88	1.18	1.49	1.82	2.20	2.64	3.23	4.18	5.08
Dec	1.18	1.29	1.10	1990	3	2.39	1984	.23	1980	6.0	3.8	.6	@	.23	.34	.51	.67	.83	1.01	1.20	1.44	1.75	2.26	2.74
Ann	32.34	34.08	5.00	Aug 1980	7	13.45	Jul 1999	.00+	Jan 1981	93.7	66.3	20.5	6.8	24.11	25.73	27.79	29.35	30.72	32.04	33.40	34.89	36.69	39.30	41.54

+ 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: 1953-2001

(3) Derived from 1971-2000 serially complete daily data

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1971-2000

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Station: NECEDAH, WI

COOP ID: 475786

Climate Division: WI 5

NWS Call Sign:

Elevation: 925 Feet

Lat: 44°02N

Lon: 90°05W

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	9.0	9.0	8	6	12.0	1988	20	23.0	1979	36	1986	4	22	1979	4.4	3.7	1.1	.3	.1	26.4	20.0	17.0	10.2
Feb	5.9	5.0	8	7	8.0	1971	5	16.0	1971	37	1979	13	34	1979	2.9	2.3	.7	.1	.0	23.1	18.6	15.3	10.0
Mar	5.4	3.3	3	1	10.0	1989	3	15.5	1977	31	1975	14	17	1971	1.9	1.8	.8	.2	@	11.7	7.3	5.0	2.5
Apr	1.7	.2	#	#	8.0	1977	4	8.0	1977	8	1977	5	2	1971	.7	.7	.2	@	.0	1.1	.2	.1	.0
May	#	.0	0	0	#	1989	6	#+	1989	0	0	0	0	0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.3	.0	#	0	4.0	1992	20	4.0	1992	3	1990	10	#+	1999	.2	.1	.1	.0	.0	@	@	.0	.0
Nov	3.6	2.3	1	#	7.0	1992	26	16.6	1985	9	1985	30	3	1985	1.7	1.2	.5	.2	.0	3.7	2.3	.9	.0
Dec	8.7	5.5	4	3	16.0	1985	1	27.0	1985	34	1985	31	30	1985	3.5	3.1	1.0	.4	.1	21.7	13.0	8.9	3.8
Ann	34.6	25.3	N/A	N/A	16.0	Dec 1985	1	27.0	Dec 1985	37	Feb 1979	13	34	Feb 1979	15.3	12.9	4.4	1.2	.2	87.7	61.4	47.2	26.5

+ 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:

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Climate Division: WI 5

NWS Call Sign:

Elevation: 925 Feet

Lat: 44°02N

Lon: 90°05W

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	6/18	6/12	6/09	6/06	6/03	5/31	5/27	5/24	5/19
32	6/02	5/28	5/25	5/21	5/18	5/15	5/12	5/09	5/03
28	5/19	5/14	5/11	5/08	5/05	5/02	4/29	4/25	4/20
24	5/09	5/03	4/29	4/25	4/22	4/18	4/14	4/10	4/04
20	4/25	4/21	4/18	4/15	4/13	4/11	4/08	4/05	4/01
16	4/17	4/13	4/10	4/08	4/05	4/03	4/01	3/29	3/25
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	8/22	8/28	9/02	9/06	9/09	9/12	9/16	9/21	9/27
32	9/07	9/12	9/15	9/17	9/20	9/22	9/24	9/27	10/02
28	9/20	9/24	9/27	9/30	10/02	10/05	10/07	10/10	10/14
24	9/27	10/02	10/06	10/09	10/12	10/15	10/18	10/22	10/27
20	10/06	10/12	10/16	10/20	10/23	10/27	10/31	11/04	11/10
16	10/18	10/23	10/27	10/30	11/02	11/05	11/08	11/12	11/17
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	121	113	107	102	98	93	88	82	74
32	141	135	130	127	123	120	116	112	106
28	169	163	158	154	150	146	142	137	130
24	197	189	183	178	173	168	163	157	149
20	216	208	202	197	193	188	183	177	169
16	227	221	217	213	210	207	203	199	193

* 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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Climate Division: WI 5 NWS Call Sign: Elevation: 925 Feet Lat: 44°02N Lon: 90°05W

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	1536	1215	997	557	230	48	11	30	160	489	924	1371	7568
60	1381	1075	842	415	133	12	0	6	74	344	774	1216	6272
57	1288	991	750	337	89	4	0	1	40	266	684	1123	5573
55	1226	935	689	288	66	2	0	0	25	220	626	1061	5138
50	1071	795	543	182	26	0	0	0	5	123	484	906	4135
32	546	347	141	10	0	0	0	0	0	3	112	407	1566

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	33	56	167	445	836	1068	1240	1161	867	540	179	59	6651
55	0	0	1	34	189	379	527	448	201	43	2	0	1824
57	0	0	0	23	150	322	465	387	157	28	0	0	1532
60	0	0	0	11	102	240	372	299	100	13	0	0	1137
65	0	0	0	3	43	125	227	168	37	2	0	0	605
70	0	0	0	0	14	48	111	75	8	0	0	0	256

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	6	55	240	580	824	993	914	629	314	57	2	0	6	61	301	881	1705	2698	3612	4241	4555	4612	4614
45	0	1	24	143	429	674	838	759	480	194	23	2	0	1	25	168	597	1271	2109	2868	3348	3542	3565	3567
50	0	0	12	78	285	524	683	604	343	107	4	0	0	0	12	90	375	899	1582	2186	2529	2636	2640	2640
55	0	0	5	36	173	377	528	450	217	51	2	0	0	0	5	41	214	591	1119	1569	1786	1837	1839	1839
60	0	0	1	15	89	243	373	297	123	20	0	0	0	0	1	16	105	348	721	1018	1141	1161	1161	1161
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	1	41	175	383	544	658	605	403	204	33	1	0	1	42	217	600	1144	1802	2407	2810	3014	3047	3048

(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/normals/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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. 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