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: LYNXVILLE DAM 9, WI **COOP ID: 474937**

Climate Division: WI 7 **NWS Call Sign:** **Elevation: 633 Feet** **Lat: 43˚13N** **Lon: 91˚06W**

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	25.5	9.0	17.3	56	1981	25	29.3	1990	-43	1951	30	3.2	1977	1480	0	.0	.0	.3	20.5	30.6	9.4
Feb	31.8	15.0	23.4	63	1981	17	34.6	1998	-34	1996	3	11.5	1978	1165	0	.0	.0	1.5	13.4	26.6	5.7
Mar	43.6	27.0	35.3	82	1986	29	42.9	2000	-34	1962	1	26.9	1975	920	0	.0	.0	9.0	4.2	23.0	.7
Apr	58.4	39.4	48.9	93	1980	22	56.1	1977	11	1972	8	42.3	1975	487	5	.0	@	23.6	.2	7.4	.0
May	70.8	50.7	60.8	92	1972	22	67.9	1977	27+	1989	7	55.4	1997	192	61	.0	.2	30.8	.0	.2	.0
Jun	79.6	60.1	69.9	100	1988	21	74.4	1971	40	1972	10	64.5	1982	25	170	@	2.4	30.0	.0	.0	.0
Jul	83.6	64.9	74.3	101	1980	7	77.7	1983	46	1971	30	68.7	1992	4	290	.1	5.6	31.0	.0	.0	.0
Aug	81.2	63.0	72.1	101	1988	17	77.6	1983	44+	1986	28	67.3	1992	14	234	.1	3.0	31.0	.0	.0	.0
Sep	73.1	54.4	63.8	96	1955	9	68.3	1978	29	1984	30	58.5	1993	97	60	.0	.8	29.9	.0	.2	.0
Oct	61.2	42.7	52.0	92	1997	3	58.6	1971	18+	1988	30	46.9	1988	407	3	.0	.1	27.4	@	4.2	.0
Nov	44.0	29.3	36.7	75+	2000	1	44.4	1999	-8	1977	26	29.6	1991	851	0	.0	.0	9.3	4.2	19.3	.1
Dec	30.3	16.2	23.3	66	2001	5	30.7	1982	-29	2000	25	11.1	1985	1294	0	.0	.0	.9	15.9	29.4	4.5
Ann	56.9	39.3	48.2	101+	Aug 1988	17	77.7	Jul 1983	-43	Jan 1951	30	3.2	Jan 1977	6936	823	.2	12.1	224.7	58.4	140.9	20.4

\+ 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

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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	1.05	.91	1.03	1967	25	3.32	1996	.03	1981
Feb	.97	1.02	1.38	1998	27	2.98	1971	.00	1987
Mar	1.93	1.91	2.50	1998	31	4.21	1998	.15	1994
Apr	3.58	3.02	2.37	1984	30	6.76	1999	1.32	1988
May	3.80	3.57	2.87	1971	19	6.33	1982	.89	1988
Jun	4.29	3.45	4.60	2000	1	11.65	2000	.51	1988
Jul	4.01	3.33	5.09	1950	16	8.98	1972	.98	1975
Aug	4.37	4.10	6.42	1951	6	10.66	1980	.80	1971
Sep	3.00	2.38	3.40	1961	30	7.47	1972	.47	1990
Oct	2.22	2.03	1.98	1997	13	5.01	1984	.33	1975
Nov	2.36	2.34	2.22	1982	12	6.91	1991	.02	1976
Dec	1.24	1.30	1.14	1968	19	2.76	1982	.23	1998
Ann	32.82	32.91	6.42	Aug 1951	6	11.65	Jun 2000	.00	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.7	3.5	.3	.0
Feb	6.3	3.1	.4	.1
Mar	8.1	4.8	1.1	.3
Apr	11.3	7.3	2.4	.8
May	10.9	7.5	2.5	.8
Jun	10.4	7.1	2.6	1.1
Jul	9.3	6.5	2.9	1.3
Aug	9.9	7.1	3.1	1.4
Sep	8.9	5.6	2.0	.8
Oct	8.2	5.0	1.4	.4
Nov	8.8	5.3	1.4	.5
Dec	7.8	3.8	.6	@
Ann	107.6	66.6	20.7	7.5

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	.20	.29	.45	.59	.73	.89	1.07	1.28	1.56	2.02	2.45
Feb	.05	.14	.29	.44	.59	.76	.95	1.20	1.53	2.08	2.61
Mar	.46	.64	.93	1.18	1.43	1.69	1.98	2.33	2.79	3.52	4.20
Apr	1.29	1.63	2.11	2.52	2.91	3.31	3.74	4.25	4.89	5.89	6.80
May	1.60	1.95	2.43	2.83	3.20	3.58	3.99	4.45	5.04	5.94	6.76
Jun	.98	1.38	2.01	2.57	3.14	3.73	4.40	5.20	6.25	7.92	9.50
Jul	1.19	1.57	2.14	2.63	3.11	3.61	4.16	4.81	5.65	6.97	8.19
Aug	1.36	1.77	2.39	2.92	3.43	3.96	4.54	5.23	6.11	7.49	8.77
Sep	.47	.72	1.16	1.57	2.00	2.47	3.00	3.66	4.54	5.97	7.34
Oct	.58	.79	1.11	1.40	1.68	1.97	2.29	2.68	3.19	3.98	4.72
Nov	.32	.51	.84	1.17	1.52	1.90	2.34	2.88	3.62	4.82	5.98
Dec	.24	.35	.53	.70	.87	1.05	1.26	1.51	1.84	2.37	2.88
Ann	23.97	25.70	27.91	29.58	31.06	32.48	33.95	35.57	37.53	40.37	42.81

\+ 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	10.5	7.6	7	5	11.0	1971	4	30.1	1979	24	1979	28	17	1982	5.5	4.0	1.1	.3	.1	25.5	19.5	12.5	5.7
Feb	7.7	7.7	7	7	9.0	1971	5	23.0	1994	25	1971	9	20	1971	3.8	2.7	.8	.2	.0	23.4	18.8	12.8	4.1
Mar	4.4	4.0	2	1	8.0	1998	9	13.3	1975	17	1975	12	9	1979	2.1	1.6	.6	.2	.0	9.0	6.1	4.2	1.7
Apr	1.2	.0	#	0	9.5	1973	9	14.5	1973	15	1973	10	2	1973	.3	.2	.1	.1	.0	.8	.4	.2	.1
May	.0	.0	0	0	.0	0	0	.0	0	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	.1	.0	#	0	1.5	1997	27	1.5	1997	1	1992	20	#	1992	.1	.1	.0	.0	.0	@	.0	.0	.0
Nov	3.0	.0	1	#	8.0	1995	28	16.0	1985	11	1991	29	4	1991	1.5	1.1	.7	.2	.0	2.8	2.0	1.2	@
Dec	6.8	5.0	4	4	12.0	1985	1	22.3	1985	22	2000	30	14	1985	5.0	3.2	.9	.3	@	19.5	13.4	7.1	3.2
Ann	33.7	24.3	N/A	N/A	12.0	Dec 1985	1	30.1	Jan 1979	25	Feb 1971	9	20	Feb 1971	18.3	12.9	4.2	1.3	.1	81.0	60.2	38.0	14.8

+ 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	5/14	5/10	5/07	5/04	5/01	4/29	4/26	4/23	4/18
32	5/04	4/29	4/26	4/23	4/20	4/17	4/14	4/11	4/06
28	4/25	4/21	4/18	4/15	4/13	4/10	4/07	4/04	3/31
24	4/17	4/12	4/09	4/06	4/04	4/01	3/29	3/26	3/21
20	4/10	4/04	3/31	3/28	3/25	3/22	3/18	3/14	3/09
16	4/04	3/30	3/26	3/22	3/19	3/16	3/12	3/08	3/03

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	9/24	9/28	10/01	10/04	10/06	10/08	10/11	10/14	10/18
32	9/29	10/04	10/08	10/12	10/15	10/18	10/22	10/26	10/31
28	10/11	10/16	10/20	10/23	10/26	10/28	10/31	11/04	11/09
24	10/25	10/29	11/02	11/04	11/07	11/09	11/12	11/15	11/20
20	10/29	11/03	11/06	11/10	11/13	11/15	11/19	11/22	11/27
16	11/07	11/13	11/17	11/20	11/23	11/26	11/30	12/04	12/09

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	173	167	163	160	157	154	150	146	141
32	199	191	186	182	177	173	169	163	156
28	218	210	204	200	195	191	186	180	173
24	237	230	225	221	217	212	208	203	196
20	254	247	241	236	232	228	223	217	210
16	271	263	258	253	248	244	239	233	225

***** 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	1480	1165	920	487	192	25	4	14	97	407	851	1294	6936
60	1325	1025	765	350	106	5	0	2	33	268	701	1139	5719
57	1232	941	673	276	69	2	0	0	14	197	612	1046	5062
55	1170	885	612	232	49	1	0	0	7	155	554	984	4649
50	1015	749	469	137	18	0	0	0	1	77	417	831	3714
32	507	317	100	4	0	0	0	0	0	1	82	350	1361

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	50	76	203	512	892	1135	1309	1243	953	620	221	78	7292
55	0	0	2	50	228	445	596	530	270	61	4	0	2186
57	0	0	1	34	186	386	534	468	217	41	1	0	1868
60	0	0	0	18	130	300	441	377	146	19	0	0	1431
65	0	0	0	5	61	170	290	234	60	3	0	0	823
70	0	0	0	1	22	74	155	120	16	0	0	0	388

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	5	67	297	647	899	1065	995	712	373	72	4	0	5	72	369	1016	1915	2980	3975	4687	5060	5132	5136
45	0	1	31	183	493	749	910	840	562	241	30	2	0	1	32	215	708	1457	2367	3207	3769	4010	4040	4042
50	0	1	14	96	344	599	755	685	415	138	10	0	0	1	15	111	455	1054	1809	2494	2909	3047	3057	3057
55	0	0	5	45	215	449	600	530	278	64	1	0	0	0	5	50	265	714	1314	1844	2122	2186	2187	2187
60	0	0	0	20	116	303	445	375	162	21	0	0	0	0	0	20	136	439	884	1259	1421	1442	1442	1442
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	39	172	388	590	730	670	434	199	38	2	0	1	40	212	600	1190	1920	2590	3024	3223	3261	3263

(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