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: GORDON, WI **COOP ID: 473186**

Climate Division: WI 1 **NWS Call Sign:** **Elevation: 1,040 Feet** **Lat: 46˚15N** **Lon: 91˚48W**

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	18.8	-4.9	7.0	51	1981	26	17.9	1990	-48	1977	10	-6.2	1977	1802	0	.0	.0	.1	26.4	30.9	18.8
Feb	26.6	1.3	14.0	58	1981	18	29.4	1998	-46	1996	2	2.4	1989	1430	0	.0	.0	.4	17.8	27.9	13.3
Mar	37.7	15.0	26.4	73+	2000	8	35.0	2000	-42	1962	1	18.2	1996	1199	0	.0	.0	4.7	8.8	29.1	5.6
Apr	53.0	28.2	40.6	92	1980	22	48.3	1987	-8	1975	1	34.6	1996	732	0	.0	@	18.5	1.0	21.7	.2
May	67.4	40.6	54.0	93+	1977	13	62.7	1977	7	1966	9	47.3	1997	368	27	.0	.4	29.3	@	7.9	.0
Jun	75.6	49.7	62.7	97	1977	26	67.6	1995	26+	1990	4	57.7	1982	122	51	.0	1.6	29.9	.0	1.0	.0
Jul	79.8	55.4	67.6	101	1974	13	72.1	1988	31	1967	5	61.4	1992	47	127	.1	3.0	31.0	.0	.0	.0
Aug	76.8	53.0	64.9	98	1988	17	69.2	1995	26	1986	28	60.6	1997	90	88	.0	1.3	31.0	.0	.3	.0
Sep	67.0	43.7	55.4	98	1976	7	60.9	1998	18+	1967	29	50.0	1993	295	6	.0	.2	29.4	.0	5.3	.0
Oct	54.6	33.2	43.9	86+	1992	3	50.7	1971	4+	1988	30	37.3	1976	655	0	.0	.0	21.2	.3	18.2	.0
Nov	36.9	20.2	28.6	72	1953	17	36.9	1999	-31+	1985	29	19.5	1976	1094	0	.0	.0	4.6	10.0	27.3	2.4
Dec	23.5	4.0	13.8	59	1982	3	23.5	1997	-44	1983	19	.4	1983	1590	0	.0	.0	.2	23.6	30.9	13.8
Ann	51.5	28.3	39.9	101	Jul 1974	13	72.1	Jul 1988	-48	Jan 1977	10	-6.2	Jan 1977	9424	299	.1	6.5	200.3	87.9	200.5	54.1

\+ 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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1951-2001

(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	1.12	.88	1.36	1996	18	2.96	1996	.07	1981
Feb	.82	.63	1.12	1965	10	2.76	1981	.09	1987
Mar	1.68	1.53	1.63	1998	28	3.79	1977	.35	1987
Apr	2.12	2.36	2.51	2001	23	3.87	1981	.27	1988
May	3.25	3.04	3.75	1953	20	6.19	1982	.11	1976
Jun	3.74	3.08	5.14	1981	14	9.10	1981	1.09	1972
Jul	4.88	4.80	5.23	1994	20	10.94	1999	1.08	1975
Aug	4.47	4.24	6.33	1978	23	8.94	1978	1.21	1976
Sep	3.78	3.02	5.80	1994	15	8.75	1994	.69	1976
Oct	2.55	2.24	2.65	1970	8	7.42	1971	.53	1976
Nov	1.95	1.76	1.84	1961	2	6.32	1991	.25	1981
Dec	.98	.93	1.12	1965	12	2.43	1972	.24	1999
Ann	31.34	30.93	6.33	Aug 1978	23	10.94	Jul 1999	.07	Jan 1981

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.7	3.7	.4	@
Feb	6.6	2.6	.4	.0
Mar	8.8	4.2	1.0	.2
Apr	9.0	5.6	1.2	.3
May	11.0	6.0	2.2	.7
Jun	13.0	7.7	2.3	.8
Jul	11.4	7.5	3.0	1.3
Aug	11.1	7.0	2.8	1.2
Sep	11.7	7.1	2.3	.8
Oct	10.7	5.8	1.7	.5
Nov	10.0	4.7	1.1	.3
Dec	9.2	3.4	.2	.0
Ann	122.2	65.3	18.6	6.1

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	.16	.25	.41	.57	.73	.91	1.11	1.36	1.70	2.25	2.78
Feb	.11	.18	.29	.41	.53	.66	.82	1.01	1.26	1.69	2.09
Mar	.43	.59	.83	1.05	1.26	1.48	1.73	2.02	2.41	3.02	3.59
Apr	.46	.65	.96	1.24	1.53	1.83	2.17	2.58	3.11	3.97	4.78
May	.74	1.05	1.52	1.95	2.37	2.82	3.33	3.94	4.73	6.00	7.19
Jun	1.37	1.72	2.22	2.64	3.05	3.46	3.91	4.43	5.09	6.11	7.05
Jul	1.36	1.82	2.53	3.14	3.74	4.36	5.06	5.88	6.94	8.61	10.16
Aug	1.53	1.95	2.57	3.09	3.59	4.10	4.66	5.32	6.15	7.45	8.64
Sep	.74	1.09	1.64	2.15	2.66	3.22	3.84	4.60	5.60	7.20	8.72
Oct	.67	.91	1.28	1.61	1.93	2.26	2.64	3.08	3.66	4.57	5.42
Nov	.37	.55	.84	1.10	1.37	1.66	1.98	2.38	2.90	3.74	4.54
Dec	.29	.38	.52	.64	.76	.88	1.01	1.17	1.38	1.70	2.00
Ann	20.98	22.93	25.46	27.40	29.14	30.82	32.57	34.51	36.88	40.34	43.35

\+ 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: 1951-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	12.9	10.8	13	13
Feb	7.9	6.9	16	15
Mar	9.1	8.3	12	10
Apr	3.9	2.9	2	1
May	.2	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	.8	.1	#	#
Nov	7.8	6.1	2	1
Dec	11.0	9.4	7	6
Ann	53.6	44.5	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	11.2	1982	23	30.0	1997	32	1972	31	26	1997
Feb	10.0	1971	5	17.5	1971	35	1972	7	30	1972
Mar	14.0	1985	4	24.5	1985	44	1975	31	27+	1997
Apr	10.0	1989	1	13.4	1996	44	1975	3	18	1996
May	2.0	1979	5	2.0	1979	4	1984	1	#+	1996
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1995	22	#	1995	0	0	0	0	0
Oct	3.5	1977	11	3.5	1977	3	1982	20	#+	2000
Nov	15.0	1991	30	23.0	1983	21	1991	30	13	1991
Dec	12.0	1982	28	32.2	1996	22	1983	16	18	1991
Ann	15.0	Nov 1991	30	32.2	Dec 1996	44+	Apr 1975	3	30	Feb 1972

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	9.3	4.6	1.3	.4	@
Feb	5.5	2.7	.7	.2	.1
Mar	4.7	2.6	.9	.4	@
Apr	1.9	1.0	.5	.2	@
May	.2	.1	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.7	.4	@	.0	.0
Nov	5.5	2.7	.9	.4	.1
Dec	8.8	4.3	.8	.2	@
Ann	36.6	18.4	5.1	1.8	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	29.8	29.0	26.2	16.7
Feb	27.9	27.6	26.7	21.3
Mar	25.6	22.7	19.7	14.2
Apr	5.8	3.3	2.0	.6
May	.2	@	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.7	.1	.0	.0
Nov	12.9	6.6	3.6	1.0
Dec	28.3	23.0	15.7	6.4
Ann	131.2	112.3	93.9	60.2

+ 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	7/06	6/28	6/23	6/19	6/14	6/10	6/06	6/01	5/24
32	6/17	6/12	6/08	6/04	6/01	5/29	5/25	5/21	5/15
28	6/07	6/01	5/28	5/25	5/21	5/18	5/15	5/11	5/05
24	5/21	5/15	5/11	5/07	5/04	5/01	4/27	4/23	4/17
20	5/10	5/05	5/01	4/28	4/25	4/21	4/18	4/14	4/09
16	4/28	4/23	4/20	4/17	4/15	4/12	4/09	4/06	4/01

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	8/11	8/18	8/22	8/27	8/30	9/03	9/07	9/12	9/18
32	8/24	8/30	9/03	9/06	9/09	9/12	9/15	9/19	9/25
28	9/10	9/14	9/17	9/20	9/22	9/25	9/28	10/01	10/05
24	9/22	9/27	9/30	10/02	10/05	10/07	10/10	10/13	10/17
20	10/01	10/07	10/11	10/14	10/17	10/20	10/24	10/28	11/02
16	10/11	10/17	10/21	10/24	10/28	10/31	11/03	11/08	11/13

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	99	91	83	76	69	62	53	41
32	123	115	109	104	99	95	90	84	76
28	146	138	132	128	123	119	114	108	101
24	175	167	162	157	153	148	144	138	131
20	200	192	185	180	175	170	165	158	150
16	218	210	205	200	195	191	186	181	173

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1802	1430	1199	732	368	122	47	90	295	655	1094	1590	9424
60	1647	1290	1044	584	250	50	11	30	170	502	944	1435	7957
57	1554	1206	951	498	192	25	4	13	110	414	854	1342	7163
55	1492	1150	889	441	157	15	0	6	78	358	794	1280	6660
50	1337	1010	734	311	87	3	0	0	27	233	645	1125	5512
32	793	538	259	32	2	0	0	0	0	15	202	598	2439

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	14	32	83	291	683	919	1103	1020	701	384	98	31	5359
55	0	0	0	10	126	244	390	313	89	14	0	0	1186
57	0	0	0	6	98	194	332	258	61	8	0	0	957
60	0	0	0	3	64	129	246	182	30	3	0	0	657
65	0	0	0	0	27	51	127	88	6	0	0	0	299
70	0	0	0	0	9	12	49	30	0	0	0	0	100

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	133	445	681	854	772	465	173	22	0	0	0	13	146	591	1272	2126	2898	3363	3536	3558	3558
45	0	0	3	70	312	531	699	617	322	94	7	0	0	0	3	73	385	916	1615	2232	2554	2648	2655	2655
50	0	0	0	33	197	389	544	464	199	43	0	0	0	0	0	33	230	619	1163	1627	1826	1869	1869	1869
55	0	0	0	15	108	253	390	315	107	16	0	0	0	0	0	15	123	376	766	1081	1188	1204	1204	1204
60	0	0	0	3	52	140	243	181	48	1	0	0	0	0	0	3	55	195	438	619	667	668	668	668
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	13	114	308	436	553	493	294	123	15	0	0	0	13	127	435	871	1424	1917	2211	2334	2349	2349

(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