

Climatology of the United States

No. 20

1971-2000

Station: STANLEY, WI

COOP ID: 478110

Climate Division: WI 1

NWS Call Sign:

Elevation: 1,090 Feet Lat: 44° 58N

Lon: 90° 56W

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	19.6	-.4	9.6	53	1981	26	21.0	1990	-46	1951	30	-2.8	1977	1719	0	.0	.0	@	25.3	30.9	15.4
Feb	26.2	4.6	15.4	57	1981	18	29.3	1998	-37	1951	9	4.8	1989	1388	0	.0	.0	.5	17.6	27.6	9.5
Mar	38.4	18.1	28.3	84	1986	30	38.0	1973	-41	1962	1	20.5	1975	1139	0	.0	.0	5.0	7.9	26.9	3.0
Apr	53.9	31.2	42.6	89	1980	22	49.4	1977	0	1956	30	36.3	1975	673	0	.0	.0	19.9	.5	16.1	.0
May	66.8	42.5	54.7	91	1959	2	62.4	1977	19+	1967	3	48.9	1983	344	23	.0	@	30.2	.0	3.6	.0
Jun	75.4	52.2	63.8	94+	1987	15	68.9	1991	29	1972	10	58.0	1982	103	66	.0	.8	30.0	.0	.2	.0
Jul	79.5	56.9	68.2	99+	1995	15	72.1+	1988	38+	1984	7	62.8	1992	37	135	.0	2.6	31.0	.0	.0	.0
Aug	77.2	54.9	66.1	104	1964	2	70.6	1988	31	1950	20	62.2	1977	65	97	.1	1.3	31.0	.0	.0	.0
Sep	68.1	45.1	56.6	97	1976	7	61.9	1998	19	1956	20	51.1	1993	262	10	.0	.2	29.6	.0	1.8	.0
Oct	56.4	34.4	45.4	91	1976	1	51.9	1971	8	1962	26	39.7	1988	609	0	.0	@	23.8	.1	13.1	.0
Nov	38.6	21.5	30.1	75	1975	4	37.8	1999	-16	1956	23	22.4	1995	1049	0	.0	.0	6.1	7.5	25.5	1.4
Dec	24.2	6.7	15.5	63	2001	6	24.5	1997	-39	1983	19	1.9	1983	1536	0	.0	.0	.3	22.1	30.6	9.8
Ann	52.0	30.6	41.4	104	Aug 1964	2	72.1+	Jul 1988	-46	Jan 1951	30	-2.8	Jan 1977	8924	331	.1	4.9	207.4	81.0	176.3	39.1

+ 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/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

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: STANLEY, WI

COOP ID: 478110

Climate Division: WI 1

NWS Call Sign:

Elevation: 1,090 Feet Lat: 44°58N

Lon: 90°56W

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	.99	.83	.81	1997	5	2.41	1997	.03	1981	8.5	3.5	.2	.0	.16	.24	.38	.52	.66	.82	.99	1.21	1.50	1.97	2.42
Feb	.80	.63	.87+	1998	2	2.12	1971	.07	1987	6.5	2.5	.2	.0	.12	.19	.30	.41	.52	.65	.80	.97	1.21	1.60	1.97
Mar	1.61	1.62	1.68	1973	11	3.82	1977	.03	1978	7.6	4.1	.8	.2	.23	.36	.59	.82	1.05	1.31	1.60	1.97	2.46	3.27	4.04
Apr	2.65	2.66	2.12	1954	30	4.86	1975	.41	1997	10.0	6.5	1.6	.4	.92	1.17	1.54	1.84	2.14	2.44	2.77	3.15	3.65	4.41	5.11
May	3.49	3.02	2.86	1989	29	7.61	1973	.67	1986	10.5	6.8	2.2	.7	.81	1.13	1.64	2.10	2.56	3.04	3.58	4.23	5.07	6.42	7.69
Jun	4.21	3.88	4.53	1980	5	12.25	1980	.93	1995	11.1	7.5	3.0	1.0	1.09	1.49	2.10	2.64	3.17	3.73	4.34	5.08	6.03	7.54	8.96
Jul	4.04	3.99	3.91	1959	8	8.76	1999	.22	1974	11.1	6.7	2.6	1.1	.83	1.20	1.79	2.33	2.88	3.46	4.12	4.92	5.97	7.64	9.23
Aug	4.52	4.23	3.88	2001	2	9.38	1980	1.23	1976	10.5	6.9	3.2	1.2	1.64	2.06	2.68	3.19	3.68	4.18	4.72	5.36	6.17	7.42	8.56
Sep	3.76	3.33	4.27	2000	11	13.00	1986	.52	1976	11.0	6.8	2.3	.9	.64	.97	1.52	2.04	2.56	3.14	3.79	4.59	5.65	7.37	9.01
Oct	2.24	2.09	2.34	1966	15	5.35	1979	.10	1976	9.3	5.5	1.1	.5	.52	.73	1.06	1.35	1.64	1.95	2.30	2.71	3.25	4.11	4.92
Nov	2.17	1.65	2.11	1991	2	8.15	1991	.17	1976	9.0	4.8	1.4	.2	.38	.58	.89	1.19	1.49	1.82	2.19	2.64	3.25	4.22	5.14
Dec	1.11	.94	1.24	1965	12	2.72	1972	.22	1986	8.9	3.8	.3	@	.24	.34	.51	.65	.80	.96	1.14	1.35	1.63	2.08	2.50
Ann	31.59	31.19	4.53	Jun 1980	5	13.00	Sep 1986	.03+	Jan 1981	114.0	65.4	18.9	6.2	19.92	22.08	24.89	27.07	29.03	30.94	32.94	35.16	37.90	41.91	45.43

+ 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

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Station: STANLEY, WI

COOP ID: 478110

Climate Division: WI 1

NWS Call Sign:

Elevation: 1,090 Feet

Lat: 44° 58N

Lon: 90° 56W

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	11.1	11.0	12	12	9.0	1971	4	27.4	1971	31+	1982	31	24	1979	7.8	4.6	1.5	.6	.0	-9.9	-9.9	-9.9	-9.9
Feb	7.2	5.9	15	14	9.0	1971	5	20.5	1971	43	1971	16	40	1971	4.6	2.9	.8	.2	.0	-9.9	-9.9	-9.9	-9.9
Mar	7.6	4.0	5	2	12.0	1989	3	29.5	1989	41	1971	4	28	1971	3.4	2.0	1.0	.6	@	8.6	7.3	5.5	3.9
Apr	2.4	1.1	#	#	8.0	1993	1	13.0	1993	13	1975	1	3	1975	1.5	1.0	.3	@	.0	1.2	.8	.7	.2
May	.0	.0	0	0	.5	1973	2	.5	1973	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	#	1993	29	#	1993	#	1987	2	#	1987	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.5	.0	#	0	4.0	1992	20	4.0	1992	2	1986	14	#+	1997	.3	.2	@	.0	.0	.1	.0	.0	.0
Nov	4.2	3.0	1	#	7.0	1971	26	12.4	1978	13	1983	30	8	1991	3.6	2.4	.7	.4	.0	3.7	2.0	1.5	.6
Dec	10.2	7.8	6	4	12.0	1985	1	24.9	1972	23	1972	31	18	1985	7.4	4.8	1.3	.2	@	23.7	20.2	16.0	7.6
Ann	43.2	32.8	N/A	N/A	12.0+	Mar 1989	3	29.5	Mar 1989	43	Feb 1971	16	40	Feb 1971	28.6	17.9	5.6	2.0	@	-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:

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NWS Call Sign:

Elevation: 1,090 Feet

Lat: 44° 58N

Lon: 90° 56W

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	6/14	6/08	6/04	6/01	5/28	5/25	5/21	5/17	5/11
32	6/03	5/28	5/24	5/20	5/17	5/13	5/09	5/05	4/29
28	5/14	5/10	5/06	5/03	5/01	4/28	4/25	4/22	4/17
24	5/01	4/26	4/22	4/19	4/17	4/14	4/11	4/07	4/02
20	4/19	4/15	4/12	4/10	4/07	4/05	4/02	3/31	3/27
16	4/15	4/11	4/07	4/05	4/02	3/31	3/28	3/25	3/20
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	9/05	9/08	9/11	9/13	9/15	9/17	9/19	9/22	9/25
32	9/11	9/16	9/20	9/23	9/26	9/29	10/02	10/05	10/10
28	9/23	9/27	9/30	10/02	10/05	10/07	10/09	10/12	10/16
24	10/02	10/07	10/11	10/15	10/18	10/21	10/24	10/28	11/03
20	10/14	10/19	10/23	10/26	10/29	11/01	11/04	11/08	11/13
16	10/24	10/30	11/03	11/07	11/10	11/13	11/17	11/21	11/27
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	130	123	118	113	109	105	100	95	88
32	156	148	142	136	131	126	121	115	106
28	174	168	164	160	156	153	149	144	138
24	205	198	192	188	184	179	175	170	163
20	223	217	212	208	204	200	196	191	185
16	245	237	231	226	221	216	211	205	197

* 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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Lon: 90° 56W

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	1719	1388	1139	673	344	103	37	65	262	609	1049	1536	8924
60	1564	1248	984	526	226	39	8	17	144	457	899	1381	7493
57	1471	1164	891	441	168	18	1	6	90	369	809	1288	6716
55	1409	1108	829	386	135	10	0	2	63	313	749	1226	6230
50	1254	968	676	262	69	2	0	0	19	192	600	1071	5113
32	710	494	222	22	0	0	0	0	0	7	167	555	2177

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	15	30	106	339	702	953	1122	1056	738	421	107	42	5631
55	0	0	0	14	124	273	409	345	110	14	0	0	1289
57	0	0	0	8	95	221	348	286	78	8	0	0	1044
60	0	0	0	4	60	152	261	205	42	3	0	0	727
65	0	0	0	0	23	66	135	97	10	0	0	0	331
70	0	0	0	0	7	18	53	32	1	0	0	0	111

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	28	183	506	743	908	842	547	241	31	2	0	0	28	211	717	1460	2368	3210	3757	3998	4029	4031
45	0	0	11	103	360	593	753	687	402	137	13	0	0	0	11	114	474	1067	1820	2507	2909	3046	3059	3059
50	0	0	4	52	230	445	598	532	266	66	3	0	0	0	4	56	286	731	1329	1861	2127	2193	2196	2196
55	0	0	0	22	130	304	444	381	152	25	0	0	0	0	0	22	152	456	900	1281	1433	1458	1458	1458
60	0	0	0	8	65	176	293	233	75	7	0	0	0	0	0	8	73	249	542	775	850	857	857	857
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	19	128	316	468	596	542	331	150	22	0	0	0	19	147	463	931	1527	2069	2400	2550	2572	2572

(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