

Climatology of the United States

No. 20

1971-2000

Station: PLATTEVILLE, WI

COOP ID: 476646

Climate Division: WI 7

NWS Call Sign:

Elevation: 990 Feet

Lat: 42°45N

Lon: 90°28W

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	24.9	7.3	16.1	58	1989	31	27.3	1990	-30	1951	30	3.2	1977	1516	0	.0	.0	.5	21.4	30.5	9.8
Feb	31.0	12.7	21.9	66	2000	26	34.6	1998	-32	1996	3	10.2	1979	1208	0	.0	.0	1.8	14.0	26.3	5.3
Mar	43.3	23.7	33.5	85	1986	29	41.3	2000	-27	1962	1	24.3	1975	976	0	.0	.0	9.2	5.1	23.7	1.0
Apr	57.7	34.9	46.3	94	1980	22	53.5	1977	3	1982	7	40.2	1975	563	2	.0	@	23.1	.3	11.1	.0
May	69.4	46.0	57.7	93	1953	30	64.9	1977	26+	1989	7	51.2	1997	262	36	.0	.2	30.7	.0	1.4	.0
Jun	79.0	55.9	67.5	101	1988	20	72.1	1971	36+	1993	1	62.2	1982	48	122	@	2.0	30.0	.0	.0	.0
Jul	82.6	60.8	71.7	102+	1955	30	75.6	1983	42+	1971	30	66.3	1992	12	220	@	4.9	31.0	.0	.0	.0
Aug	80.4	59.2	69.8	103	1988	17	76.2	1995	38+	1986	28	64.9	1992	34	184	.1	2.4	31.0	.0	.0	.0
Sep	72.5	50.0	61.3	100+	1955	9	66.2	1978	25+	1974	22	55.5	1993	151	37	.0	.8	30.0	.0	1.0	.0
Oct	60.8	38.9	49.9	91	1953	2	57.6	1971	12	1962	26	43.9	1988	471	2	.0	@	27.0	.0	8.0	.0
Nov	43.4	26.2	34.8	80	1950	1	42.3	1999	-14	1977	26	27.4	1995	907	0	.0	.0	10.3	4.5	21.4	.3
Dec	30.1	14.1	22.1	64	1998	6	30.1	1982	-26	1983	19	9.8	2000	1330	0	.0	.0	1.3	15.8	29.4	5.1
Ann	56.3	35.8	46.1	103	Aug 1988	17	76.2	Aug 1995	-32	Feb 1996	3	3.2	Jan 1977	7478	603	.1	10.3	225.9	61.1	152.8	21.5

+ 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: PLATTEVILLE, WI

COOP ID: 476646

Climate Division: WI 7

NWS Call Sign:

Elevation: 990 Feet Lat: 42°45N

Lon: 90°28W

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	1.12	1.01	1.35	1960	12	2.61	1996	.19	1981	9.1	3.3	.3	@	.31	.42	.58	.72	.86	1.00	1.16	1.35	1.59	1.97	2.33
Feb	1.29	1.10	1.71	1998	27	3.65	1971	.06	1987	7.1	3.4	.7	.2	.14	.23	.41	.59	.78	1.00	1.26	1.58	2.01	2.73	3.44
Mar	2.22	1.96	2.55	1998	31	4.83	1977	.57	1994	9.7	5.3	1.4	.2	.48	.69	1.01	1.31	1.60	1.91	2.27	2.69	3.25	4.13	4.97
Apr	3.52	3.18	2.42	1974	14	7.01	1973	1.25	1985	12.5	7.4	2.5	.6	1.36	1.68	2.15	2.54	2.90	3.28	3.68	4.15	4.75	5.66	6.50
May	3.93	4.22	3.21	1999	17	6.05	1996	.77	1992	12.5	7.2	2.9	1.0	1.25	1.62	2.18	2.65	3.10	3.57	4.09	4.70	5.48	6.69	7.82
Jun	5.06	4.40	5.98	2000	1	12.57	2000	.80	1992	11.4	7.1	3.2	1.4	1.12	1.59	2.33	3.00	3.67	4.38	5.18	6.14	7.40	9.40	11.30
Jul	4.54	4.21	4.92	1951	8	10.78	1999	1.28	1985	10.6	7.0	2.6	1.3	1.29	1.72	2.37	2.94	3.49	4.07	4.71	5.46	6.44	7.97	9.40
Aug	4.44	4.62	4.62	1991	8	8.07	1979	1.15	1995	10.6	6.9	2.9	1.3	1.40	1.82	2.45	2.98	3.50	4.03	4.62	5.31	6.20	7.59	8.87
Sep	3.52	3.70	3.20	1961	13	6.88	1986	.64+	1990	10.1	6.1	2.7	.8	.69	1.01	1.52	2.00	2.48	2.99	3.58	4.28	5.22	6.71	8.13
Oct	2.61	2.52	2.80	1954	10	7.17	1984	.33	1975	10.2	5.5	1.7	.6	.58	.82	1.21	1.55	1.89	2.26	2.67	3.17	3.81	4.85	5.82
Nov	2.43	1.99	2.63	1961	2	5.91	1992	.10	1976	10.3	5.2	1.4	.4	.48	.70	1.06	1.39	1.72	2.08	2.48	2.96	3.60	4.63	5.61
Dec	1.45	1.36	2.51	1971	15	4.04	1971	.25	1989	9.4	3.9	.7	.1	.29	.43	.64	.83	1.03	1.24	1.48	1.76	2.14	2.74	3.31
Ann	36.13	36.08	5.98	Jun 2000	1	12.57	Jun 2000	.06	Feb 1987	123.5	68.3	23.0	7.9	25.32	27.40	30.07	32.10	33.90	35.65	37.46	39.46	41.89	45.41	48.47

+ 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:
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Station: PLATTEVILLE, WI

COOP ID: 476646

Climate Division: WI 7

NWS Call Sign:

Elevation: 990 Feet

Lat: 42°45N

Lon: 90°28W

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	9.3	5	4	11.5	1996	27	33.6	1979	29	1979	23	20	1979	7.8	3.3	1.0	.4	.1	21.6	16.4	13.9	5.3
Feb	7.2	7.2	5	4	8.1	1975	24	21.3	1975	29	1979	12	25	1979	5.8	2.4	1.0	.2	.0	19.7	15.5	9.4	3.8
Mar	5.8	6.6	2	1	9.0	1998	9	13.2	1975	22	1979	1	9	1975	3.7	1.9	.7	.2	.0	7.2	4.5	3.1	1.3
Apr	2.4	1.3	#	#	10.2	1973	9	14.0	1973	12	1973	9	1	1997	1.4	.7	.2	.1	@	1.0	.5	.3	@
May	.1	.0	#	0	2.9	1994	1	2.9	1994	3	1994	1	#	1994	.1	@	.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	#	1983	21	#	1983	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.3	.0	#	0	6.2	1997	27	6.2	1997	6	1997	27	#+	1999	.2	@	@	@	.0	.1	.1	@	.0
Nov	3.3	1.6	#	#	7.9	1995	28	11.1	1977	10	1977	27	2	1986	3.3	.9	.3	@	.0	3.9	1.5	.6	@
Dec	10.7	6.5	3	2	18.4	1990	3	33.6	2000	30	2000	30	15	2000	6.9	2.7	1.0	.3	.1	17.9	11.9	6.9	3.1
Ann	40.9	32.5	N/A	N/A	18.4	Dec 1990	3	33.6+	Dec 2000	30	Dec 2000	30	25	Feb 1979	29.2	11.9	4.2	1.2	.2	71.4	50.4	34.2	13.5

+ 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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No. 20 1971-2000

Station: PLATTEVILLE, WI

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Climate Division: WI 7

NWS Call Sign:

Elevation: 990 Feet

Lat: 42° 45N

Lon: 90° 28W

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	5/30	5/26	5/22	5/19	5/16	5/13	5/10	5/07	5/02
32	5/22	5/16	5/11	5/08	5/04	5/01	4/27	4/23	4/17
28	5/03	4/28	4/24	4/21	4/19	4/16	4/13	4/09	4/04
24	4/18	4/15	4/12	4/10	4/08	4/06	4/04	4/01	3/29
20	4/14	4/10	4/07	4/04	4/02	3/31	3/29	3/26	3/22
16	4/06	4/01	3/28	3/24	3/21	3/18	3/14	3/10	3/04
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	9/13	9/18	9/21	9/24	9/27	9/29	10/02	10/05	10/10
32	9/20	9/24	9/27	9/29	10/01	10/03	10/06	10/09	10/12
28	9/28	10/03	10/07	10/10	10/13	10/16	10/19	10/23	10/28
24	10/11	10/16	10/20	10/23	10/26	10/29	11/01	11/05	11/10
20	10/18	10/23	10/27	10/30	11/02	11/05	11/08	11/12	11/17
16	11/01	11/06	11/09	11/12	11/15	11/18	11/21	11/24	11/29
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	154	146	141	137	133	128	124	119	111
32	169	162	157	153	149	145	141	136	129
28	197	190	185	180	176	172	168	163	156
24	219	212	208	204	200	196	192	188	181
20	230	224	220	216	213	209	206	202	196
16	263	255	248	243	239	234	229	222	214

* 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: PLATTEVILLE, WI

COOP ID: 476646

Climate Division: WI 7 NWS Call Sign: Elevation: 990 Feet Lat: 42°45N Lon: 90°28W

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	1516	1208	976	563	262	48	12	34	151	471	907	1330	7478
60	1361	1068	821	420	159	13	0	9	65	326	757	1175	6174
57	1268	984	728	340	110	5	0	2	34	249	667	1082	5469
55	1206	928	667	290	84	2	0	0	20	203	608	1020	5028
50	1051	791	523	182	36	0	0	0	3	110	465	865	4026
32	532	352	131	8	0	0	0	0	0	2	96	374	1495

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	39	67	178	437	797	1064	1230	1173	877	556	179	68	6665
55	0	0	1	29	168	376	517	460	206	44	1	0	1802
57	0	0	0	19	133	318	455	400	160	28	0	0	1513
60	0	0	0	9	88	236	362	313	102	13	0	0	1123
65	0	0	0	2	36	122	220	184	37	2	0	0	603
70	0	0	0	0	12	45	107	91	8	0	0	0	263

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	73	266	595	855	1011	947	664	344	73	5	0	5	78	344	939	1794	2805	3752	4416	4760	4833	4838
45	0	0	37	161	445	705	856	792	518	218	33	2	0	0	37	198	643	1348	2204	2996	3514	3732	3765	3767
50	0	0	16	86	301	555	701	637	374	125	11	0	0	0	16	102	403	958	1659	2296	2670	2795	2806	2806
55	0	0	6	43	183	405	546	482	246	61	3	0	0	0	6	49	232	637	1183	1665	1911	1972	1975	1975
60	0	0	1	16	96	268	393	329	142	26	0	0	0	0	1	17	113	381	774	1103	1245	1271	1271	1271
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	1	45	167	368	557	684	629	417	206	38	3	0	1	46	213	581	1138	1822	2451	2868	3074	3112	3115

(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