

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: HOLCOMBE, WI

1971-2000

COOP ID: 473698

Climate Division: WI 1

NWS Call Sign:

Elevation: 1,025 Feet Lat: 45°14N

Lon: 91°08W

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	21.6	-2.2	9.7	52	1981	25	21.4	1990	-44	1977	9	-2.4	1977	1716	0	.0	.0	.1	24.2	30.9	15.6
Feb	28.6	4.0	16.3	58+	2000	29	30.6	1998	-45+	1996	2	6.3	1979	1364	0	.0	.0	.7	16.4	27.8	9.4
Mar	39.8	17.3	28.6	81	1986	30	38.1	2000	-40	1962	1	21.1	1975	1130	0	.0	.0	5.6	6.8	26.9	3.2
Apr	55.1	30.6	42.9	90	1970	29	49.8	1987	1	1975	4	35.4	1975	666	1	.0	.0	20.4	.4	15.0	.0
May	68.5	42.6	55.6	94	1959	2	62.6	1977	20	1966	9	49.8	1997	319	26	.0	.1	30.5	.0	2.4	.0
Jun	76.2	51.8	64.0	95+	1971	27	69.3	1991	30	1985	2	58.7	1982	103	73	.0	.9	30.0	.0	.1	.0
Jul	80.6	56.8	68.7	99	1988	15	73.7	1988	38	1948	1	63.0	1992	28	143	.0	2.8	31.0	.0	.0	.0
Aug	77.9	54.7	66.3	100+	1988	1	71.3	1995	32	1967	31	61.9	1977	62	103	@	1.4	31.0	.0	.0	.0
Sep	69.2	45.6	57.4	95	1976	7	62.4	1978	21	1949	29	51.8	1993	243	15	.0	.3	29.8	.0	1.4	.0
Oct	57.4	34.8	46.1	89	1976	1	52.6	1971	11	1976	27	41.3	1988	587	0	.0	.0	24.5	.1	10.7	.0
Nov	39.6	21.8	30.7	72	2000	1	39.6	1999	-16	1976	30	23.0	1976	1030	0	.0	.0	6.4	6.3	24.7	.9
Dec	25.7	6.5	16.1	60+	1998	3	25.9	1997	-39	1983	19	2.3	1983	1516	0	.0	.0	.4	21.3	30.6	9.0
Ann	53.4	30.4	41.9	100+	Aug 1988	1	73.7	Jul 1988	-45+	Feb 1996	2	-2.4	Jan 1977	8764	361	@	5.5	210.4	75.5	170.5	38.1

+ 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

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NWS Call Sign:

Elevation: 1,025 Feet Lat: 45°14N

Lon: 91°08W

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	1.05	.93	1.81	1967	25	3.95	1996	.03	1985	6.5	3.2	.4	.1	.11	.19	.34	.49	.64	.82	1.02	1.28	1.63	2.21	2.77
Feb	.78	.72	1.20	1998	27	2.60	1981	.00	1997	5.1	2.8	.3	.1	.06	.14	.26	.38	.50	.63	.78	.97	1.22	1.62	2.02
Mar	1.75	1.58	1.25	1976	30	4.58	1977	.15	1978	6.3	4.0	1.1	.2	.38	.54	.80	1.03	1.26	1.51	1.79	2.12	2.56	3.27	3.93
Apr	2.74	2.67	3.00	1975	28	6.10	1975	.29	1987	7.8	5.5	1.9	.7	.74	1.00	1.40	1.74	2.08	2.44	2.84	3.31	3.92	4.88	5.78
May	3.34	2.70	3.18	1955	29	8.26	1973	1.14	1976	8.2	6.4	2.6	.9	1.07	1.39	1.85	2.25	2.64	3.04	3.47	3.99	4.65	5.67	6.62
Jun	4.21	3.61	3.65	1979	17	8.10	1980	1.49	1995	9.6	7.0	3.0	.9	1.63	2.02	2.58	3.04	3.48	3.92	4.41	4.97	5.68	6.77	7.77
Jul	3.63	3.37	5.85	1959	9	9.00	1987	1.20	1998	9.0	6.3	2.4	1.0	1.34	1.68	2.17	2.58	2.96	3.36	3.79	4.29	4.93	5.92	6.82
Aug	4.81	4.79	5.70	1960	28	9.14	1995	.78	1976	8.6	6.9	3.3	1.4	1.75	2.20	2.85	3.40	3.92	4.45	5.03	5.70	6.55	7.88	9.09
Sep	3.90	3.91	4.68	1958	6	9.56	1986	.77	1976	8.8	6.3	2.7	1.1	1.22	1.59	2.14	2.61	3.06	3.53	4.05	4.66	5.45	6.67	7.80
Oct	2.37	2.51	2.83	1966	15	5.54	1979	.59	1976	7.2	4.6	1.5	.6	.68	.91	1.25	1.54	1.83	2.13	2.46	2.85	3.35	4.15	4.88
Nov	2.13	1.87	2.90	1975	10	6.84	1991	.07	1976	6.6	4.4	1.6	.3	.35	.53	.84	1.13	1.44	1.76	2.14	2.60	3.21	4.20	5.14
Dec	1.05	1.07	1.32	1959	28	2.99	1982	.09	1989	6.1	3.2	.3	.1	.19	.28	.44	.58	.73	.89	1.07	1.28	1.57	2.04	2.48
Ann	31.76	31.93	5.85	Jul 1959	9	9.56	Sep 1986	.00	Feb 1997	89.8	60.6	21.1	7.4	22.30	24.12	26.46	28.23	29.81	31.34	32.92	34.67	36.80	39.88	42.55

+ 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: HOLCOMBE, WI

COOP ID: 473698

Climate Division: WI 1

NWS Call Sign:

Elevation: 1,025 Feet

Lat: 45°14N

Lon: 91°08W

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	16.7	16.6	8	8	9.0	1972	25	25.1	1971	26	1979	29	18	1979	5.7	3.9	1.4	.6	.0	-9.9	-9.9	-9.9	-9.9
Feb	8.0	8.5	10	9	8.0	1971	5	15.8	1971	36	1979	16	30	1979	3.7	2.1	.4	.1	.0	-9.9	-9.9	-9.9	-9.9
Mar	7.4	7.0	5	#	7.0	1972	4	17.5	1976	34	1972	10	20	1972	2.3	1.7	.9	.5	.0	-9.9	-9.9	-9.9	-9.9
Apr	1.6	1.0	1	0	3.0	1974	4	5.0+	1974	15+	1975	1	6	1975	.8	.8	.1	.0	.0	1.5	1.2	.9	.7
May	.1	.0	#	0	1.0	1973	2	1.0	1973	1	1973	2	#	1973	.1	.1	.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	#	.0	#	0	#	1993	29	#	1993	#	1993	29	#	1993	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	2.4	1.0	1	0	5.0	1978	18	7.5	1977	11	1978	29	8	1978	1.0	.8	.3	.1	.0	1.4	.2	.0	.0
Dec	11.8	12.4	3	2	5.0	1971	19	21.0	1971	15	1978	31	11	1978	3.8	3.2	.8	.2	.0	-9.9	-9.9	-9.9	-9.9
Ann	48.0	46.5	N/A	N/A	9.0	Jan 1972	25	25.1	Jan 1971	36	Feb 1979	16	30	Feb 1979	17.4	12.6	3.9	1.5	.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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No. 20 1971-2000

Station: HOLCOMBE, WI

COOP ID: 473698

Climate Division: WI 1

NWS Call Sign:

Elevation: 1,025 Feet

Lat: 45° 14N

Lon: 91° 08W

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	6/10	6/05	6/01	5/28	5/25	5/21	5/18	5/14	5/08
32	6/01	5/26	5/21	5/17	5/14	5/10	5/06	5/02	4/26
28	5/09	5/04	5/01	4/28	4/25	4/22	4/19	4/16	4/11
24	4/27	4/22	4/19	4/16	4/14	4/11	4/08	4/05	3/31
20	4/16	4/13	4/10	4/08	4/06	4/04	4/02	3/30	3/26
16	4/11	4/06	4/03	3/31	3/29	3/26	3/23	3/20	3/15
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	9/07	9/11	9/14	9/17	9/19	9/21	9/24	9/27	10/01
32	9/16	9/20	9/23	9/26	9/28	10/01	10/03	10/06	10/10
28	9/24	9/29	10/03	10/06	10/09	10/12	10/15	10/19	10/24
24	10/08	10/13	10/17	10/20	10/23	10/26	10/29	11/01	11/06
20	10/17	10/22	10/26	10/29	11/01	11/04	11/07	11/11	11/16
16	10/26	11/01	11/05	11/08	11/11	11/15	11/18	11/22	11/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	138	130	125	121	117	112	108	103	95
32	161	153	147	141	137	132	127	121	113
28	186	179	174	170	166	162	158	154	147
24	213	206	200	196	191	187	182	177	169
20	225	220	215	212	208	205	201	197	191
16	251	243	237	232	227	222	217	211	203

* 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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of the United States
No. 20
1971-2000**

Station: HOLCOMBE, WI

COOP ID: 473698

Climate Division: WI 1 NWS Call Sign: Elevation: 1,025 Feet Lat: 45°14N Lon: 91°08W

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	1716	1364	1130	666	319	103	28	62	243	587	1030	1516	8764
60	1561	1224	975	521	206	40	5	17	131	434	880	1361	7355
57	1468	1140	882	437	150	19	0	6	81	347	790	1268	6588
55	1406	1084	820	384	119	11	0	2	55	292	730	1206	6109
50	1251	944	667	263	58	2	0	0	16	173	582	1051	5007
32	707	476	213	24	0	0	0	0	0	5	162	537	2124

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	14	37	106	349	730	960	1137	1064	762	441	121	43	5764
55	0	0	0	18	136	281	424	353	127	15	0	0	1354
57	0	0	0	12	105	229	362	295	93	8	0	0	1104
60	0	0	0	6	67	160	274	213	53	3	0	0	776
65	0	0	0	1	26	73	143	103	15	0	0	0	361
70	0	0	0	0	8	21	56	35	2	0	0	0	122

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	31	196	544	765	937	865	574	263	33	2	0	0	31	227	771	1536	2473	3338	3912	4175	4208	4210
45	0	0	13	111	394	615	782	710	425	150	14	0	0	0	13	124	518	1133	1915	2625	3050	3200	3214	3214
50	0	0	3	55	255	465	627	555	286	72	2	0	0	0	3	58	313	778	1405	1960	2246	2318	2320	2320
55	0	0	0	20	147	323	472	400	171	27	0	0	0	0	0	20	167	490	962	1362	1533	1560	1560	1560
60	0	0	0	6	73	189	318	252	88	7	0	0	0	0	0	6	79	268	586	838	926	933	933	933
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	1	22	136	344	488	616	559	351	159	21	0	0	1	23	159	503	991	1607	2166	2517	2676	2697	2697

(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/normal/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