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

COOP ID: 473453

Lon: 88°25W

Station: HARTFORD 2 W, WI

Climate Division: WI 9 NWS Call Sign:

Temperature (°F) Degree Days (1) Mean (1) Mean Number of Days (3) **Extremes** Base Temp 65 Max Max Max Max Min Min Highest Lowest Daily Daily Highest Lowest Month(1) Month(1) Cooling >= >= >= <= <= <= Month Mean Year Day Year Year Day Year Heating Max Min Daily(2) Daily(2) Mean Mean 100 90 50 32 32 0 24.5 6.5 15.5 55 1996 19 28.0 1990 -35+ 1982 10 1.2 1977 1536 0 .0 .0 .3 21.0 30.5 10.4 Jan 29.5 11.3 20.4 63 2000 27 40.2 1998 -34 1959 2 8.5 1979 1249 0 .0 .0 1.6 15.3 26.7 6.8 Feb Mar 40.9 23.1 32.0 81 1986 29 40.2 2000 -23 1962 24.7 1984 1022 0 .0 .0 7.6 5.7 25.7 1.3 33.7 22 7 1975 Apr 54.3 44.0 88 1980 50.7 1985 1 1982 38.2 630 .0 .0 20.2 .3 13.2 0. May 67.5 44.5 56.0 94 1999 30 62.2 1977 20 1978 1 49.9 1983 310 31 .0 .2 30.3 .0 2.9 .0 53.4 70.8 31 9 59.3 @ 2.1 77.1 65.3 100 1988 21 1999 1988 1982 84 91 30.0 .0 @ .0 Jun Jul 81.1 58.3 69.7 105 1999 31 73.9 1999 39 64.5 1992 18 164 4.1 31.0 1965 .1 .0 .0 .0 1992 78.6 56.4 67.5 101 1988 1 73.6 1995 36 1986 27 62.7 53 131 .1 1.8 31.0 .0 .0 .0 Aug 23 197 Sep 70.4 47.8 59.1 97 1953 1 64.4 1998 1976 24 54.8 1974 21 .0 .6 29.8 .0 1.1 .0 15 41.7 Oct 58.9 37.3 48.1 89 1982 1 56.8 1971 1976 18 1988 525 1 .0 .0 26.0 (a) 9.1 .0 43.0 26.0 34.5 75 1999 10 43.5 1999 -11 1976 29 26.0 1995 915 0 .0 .0 9.5 21.4 .3 Nov 4.2 Dec 29.9 13.4 21.7 65 2001 6 29.8 1982 -29 1983 19 8.2 1985 1345 0 .0 .0 1.2 15.7 29.2 5.5 Jul Jul Jan Jan 54.6 34.3 44.5 105 1999 31 73.9 1999 -35+ 1982 10 1.2 1977 7884 440 .2 8.8 218.5 62.2 159.8 24.3 Ann

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004 044-A

(1) From the 1971-2000 Monthly Normals

Elevation: 980 Feet Lat: 43°20N

- (2) Derived from station's available digital record: 1948-2001
- (3) Derived from 1971-2000 serially complete daily data

⁺ Also occurred on an earlier date(s)

[@] Denotes mean number of days greater than 0 but less than .05

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COOP ID: 473453

Station: HARTFORD 2 W, WI

Climate Division: WI 9

NWS Call Sign: Elevation: 980 Feet Lat: 43°20N Lon: 88°25W

| | | | | | | | | | | Pı | recipit | tation | (incl | nes) | | | | | | | | | | |
|-------|-------------|-------------|---------------------|-------------|--------|-----------------------|-------------|----------------------|-------------|---------------------|------------|------------------|------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | P | recipi | itatio | n Total | s | | | М | ean N | lumbo Pays (3 | | Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount | | | | | | | | | | |
| | Mea Medi | | | | | Extremes | 3 | | | 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 | 1.31 | 1.25 | 1.00 | 1996 | 27 | 3.26 | 1999 | .16 | 1981 | 8.3 | 4.2 | .5 | @ | .29 | .42 | .61 | .78 | .95 | 1.13 | 1.34 | 1.58 | 1.91 | 2.42 | 2.90 |
| Feb | 1.07 | .67 | 1.80 | 1997 | 21 | 3.10 | 1997 | .02 | 1995 | 6.3 | 3.1 | .5 | .1 | .10 | .18 | .32 | .47 | .63 | .81 | 1.03 | 1.30 | 1.67 | 2.30 | 2.91 |
| Mar | 1.93 | 1.79 | 2.10 | 1998 | 31 | 5.32 | 1976 | .23 | 1978 | 8.2 | 5.0 | 1.3 | .2 | .33 | .50 | .78 | 1.04 | 1.31 | 1.61 | 1.94 | 2.35 | 2.90 | 3.78 | 4.63 |
| Apr | 3.02 | 2.88 | 2.25 | 1999 | 23 | 6.81 | 1993 | .85 | 1994 | 9.7 | 6.6 | 2.1 | .5 | 1.14 | 1.42 | 1.82 | 2.16 | 2.48 | 2.80 | 3.16 | 3.57 | 4.09 | 4.89 | 5.62 |
| May | 3.07 | 3.00 | 2.73 | 2000 | 18 | 7.05 | 2000 | .59 | 1992 | 9.6 | 6.4 | 2.1 | .5 | 1.02 | 1.32 | 1.74 | 2.10 | 2.45 | 2.81 | 3.20 | 3.66 | 4.25 | 5.17 | 6.01 |
| Jun | 3.82 | 3.99 | 3.80 | 1996 | 17 | 10.46 | 1996 | .87 | 1992 | 9.6 | 6.6 | 2.3 | 1.1 | 1.15 | 1.51 | 2.05 | 2.52 | 2.98 | 3.45 | 3.97 | 4.58 | 5.37 | 6.61 | 7.76 |
| Jul | 4.13 | 3.88 | 3.95 | 1999 | 21 | 9.42 | 1999 | 1.16 | 1971 | 9.3 | 6.7 | 3.1 | 1.2 | 1.47 | 1.86 | 2.42 | 2.89 | 3.35 | 3.81 | 4.32 | 4.90 | 5.65 | 6.81 | 7.88 |
| Aug | 4.15 | 3.64 | 3.96 | 1983 | 17 | 8.52 | 1995 | 1.60 | 1976 | 9.7 | 7.0 | 2.8 | 1.0 | 1.66 | 2.04 | 2.59 | 3.03 | 3.45 | 3.88 | 4.35 | 4.88 | 5.56 | 6.60 | 7.54 |
| Sep | 3.61 | 3.71 | 5.20 | 1986 | 10 | 11.23 | 1986 | .38 | 1979 | 8.8 | 6.3 | 2.5 | .9 | .58 | .89 | 1.41 | 1.91 | 2.42 | 2.98 | 3.62 | 4.41 | 5.45 | 7.15 | 8.77 |
| Oct | 2.62 | 2.59 | 3.20 | 1954 | 3 | 5.56 | 1991 | .16 | 1975 | 8.8 | 5.6 | 1.9 | .5 | .59 | .83 | 1.21 | 1.56 | 1.91 | 2.27 | 2.69 | 3.18 | 3.83 | 4.87 | 5.85 |
| Nov | 2.22 | 2.12 | 1.96 | 1985 | 1 | 6.72 | 1985 | .24 | 1976 | 8.8 | 5.3 | 1.4 | .4 | .44 | .64 | .96 | 1.26 | 1.56 | 1.89 | 2.25 | 2.70 | 3.28 | 4.22 | 5.11 |
| Dec | 1.57 | 1.64 | 1.54 | 1971 | 15 | 3.60 | 1971 | .21 | 1976 | 8.0 | 4.5 | .7 | .2 | .30 | .44 | .67 | .89 | 1.10 | 1.33 | 1.59 | 1.91 | 2.32 | 2.99 | 3.63 |
| Ann | 32.52 | 33.21 | 5.20 | Sep 1986 | 10 | 11.23 | Sep 1986 | .02 | Feb 1995 | 105.1 | 67.3 | 21.2 | 6.6 | 25.59 | 26.98 | 28.73 | 30.04 | 31.20 | 32.30 | 33.43 | 34.66 | 36.15 | 38.28 | 40.09 |

⁺ Also occurred on an earlier date(s)

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[#] 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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COOP ID: 473453

Station: HARTFORD 2 W, WI

Climate Division: WI 9 NWS Call Sign: Elevation: 980 Feet Lat: 43°20N Lon: 88°25W

| | | | | | | | | | | Snov | w (incl | nes) | | | | | | | | | | | | |
|-------|----------------------|------------------------|-----------------------|-------------------------|----------------------------------|-------------|-------|------------------------------------|-------------|-----------------------------------|-------------|------|---|-------------|-------------------------|------|-------------------------|-----|------|------|------|------|------|--|
| | | | | | | Sno | ow To | tals | | | | | | | Mean Number of Days (1) | | | | | | | | | |
| | Mean | s/Medi | ians (1) |) | Extremes (2) | | | | | | | | | | | | Snow Fall >= Thresholds | | | | | | ls | |
| 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 | 11.4 | 11.0 | 6 | 5 | 11.0 | 1979 | 13 | 33.0 | 1979 | 34 | 1979 | 25 | 25 | 1979 | 4.9 | 4.2 | 1.5 | .5 | .1 | 22.2 | 18.3 | 15.1 | 7.9 | |
| Feb | 6.6 | 7.0 | 5 | 4 | 10.0 | 1994 | 26 | 22.0 | 1994 | 28 | 1979 | 21 | 24 | 1979 | 3.5 | 3.1 | .8 | .2 | @ | 20.0 | 15.1 | 9.1 | 5.1 | |
| Mar | 5.2 | 4.0 | 2 | 1 | 12.0 | 1971 | 19 | 18.0+ | 1972 | 17 | 1979 | 2 | 8 | 1979 | 2.6 | 2.1 | .8 | .3 | @ | 9.2 | 6.2 | 3.8 | 1.3 | |
| Apr | 1.9 | .0 | # | # | 8.0 | 1973 | 9 | 14.5 | 1973 | 12 | 1973 | 10 | 2 | 1973 | .8 | .7 | .3 | .1 | .0 | 1.3 | .6 | .3 | .1 | |
| May | .4 | .0 | # | 0 | 6.0 | 1994 | 1 | 6.0 | 1994 | 6 | 1994 | 1 | # | 1994 | .1 | .1 | .1 | @ | .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 | 3.0 | 1992 | 20 | 3.0 | 1992 | #+ | 1987 | 23 | #+ | 1987 | .1 | @ | @ | .0 | .0 | .0 | .0 | .0 | .0 | |
| Nov | 2.8 | 1.0 | # | # | 7.0 | 1985 | 9 | 15.0 | 1985 | 10 | 1985 | 10 | 2 | 1985 | 1.4 | 1.2 | .4 | .1 | .0 | 1.9 | .9 | .2 | @ | |
| Dec | 8.4 | 7.3 | 3 | 2 | 8.0 | 1990 | 3 | 20.7 | 2000 | 25 | 2000 | 31 | 11 | 2000 | 3.8 | 3.1 | 1.0 | .3 | .0 | 15.7 | 9.6 | 6.0 | 1.1 | |
| Ann | 36.8 | 30.3 | N/A | N/A | 12.0 | Mar 1971 | 19 | 33.0 | Jan 1979 | 34 | Jan 1979 | 25 | 25 | Jan 1979 | 17.2 | 14.5 | 4.9 | 1.5 | .1 | 70.3 | 50.7 | 34.5 | 15.5 | |

⁺ Also occurred on an earlier date(s) #Denotes trace amounts

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[@] 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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COOP ID: 473453

Lat: 43°20N

Lon: 88°25W

1971-2000

Elevation: 980 Feet

Station: HARTFORD 2 W, WI

Climate Division: WI 9 NWS Call Sign:

| | | | | Freez | ze Data | | | | | | | | | | | |
|---|-------|---|---------------|--------------|---------------|---------------|---------------|-------|-------|--|--|--|--|--|--|--|
| | | | Spri | ng Freeze D | ates (Month/ | Day) | | | | | | | | | | |
| Tomn (F) | | P | robability of | later date i | n spring (thr | u Jul 31) tha | an indicated(| (*) | | | | | | | | |
| Temp (F) 36 32 28 24 20 16 Temp (F) 36 32 28 24 20 16 Temp (F) 36 32 28 24 20 20 4 | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | | | | | | | |
| 36 | 6/14 | 6/08 | 6/03 | 5/31 | 5/27 | 5/24 | 5/20 | 5/16 | 5/10 | | | | | | | |
| 32 | 5/29 | 5/23 | 5/19 | 5/16 | 5/12 | 5/09 | 5/06 | 5/02 | 4/26 | | | | | | | |
| 28 | 5/12 | 5/07 | 5/03 | 4/30 | 4/27 | 4/24 | 4/21 | 4/17 | 4/12 | | | | | | | |
| 24 | 4/27 | 4/22 | 4/19 | 4/16 | 4/13 | 4/10 | 4/07 | 4/04 | 3/30 | | | | | | | |
| 20 | 4/17 | 4/13 | 4/09 | 4/07 | 4/04 | 4/01 | 3/29 | 3/26 | 3/21 | | | | | | | |
| 16 | 4/08 | 4/03 | 3/30 | 3/27 | 3/24 | 3/21 | 3/18 | 3/14 | 3/09 | | | | | | | |
| • | | | Fal | l Freeze Da | tes (Month/D | ay) | 1 | • | • | | | | | | | |
| To (E) | | Probability of earlier date in fall (beginning Aug 1) than indicated(*) | | | | | | | | | | | | | | |
| remp (r) | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | | | | | | | |
| 36 | 9/07 | 9/11 | 9/14 | 9/16 | 9/18 | 9/20 | 9/22 | 9/25 | 9/29 | | | | | | | |
| 32 | 9/18 | 9/22 | 9/25 | 9/28 | 9/30 | 10/03 | 10/05 | 10/09 | 10/13 | | | | | | | |
| 28 | 9/23 | 9/28 | 10/01 | 10/04 | 10/07 | 10/09 | 10/12 | 10/15 | 10/20 | | | | | | | |
| 24 | 10/03 | 10/10 | 10/15 | 10/19 | 10/23 | 10/27 | 10/31 | 11/04 | 11/11 | | | | | | | |
| 20 | 10/21 | 10/26 | 10/29 | 11/01 | 11/04 | 11/07 | 11/10 | 11/13 | 11/18 | | | | | | | |
| 16 | 11/03 | 11/08 | 11/12 | 11/16 | 11/19 | 11/22 | 11/25 | 11/29 | 12/04 | | | | | | | |
| • | | | | Freeze F | ree Period | • | 1 | • | • | | | | | | | |
| Tomm (F) | | | Probability | of longer th | an indicated | freeze free p | eriod (Days) | 1 | | | | | | | | |
| remp (r) | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | | | | | | | |
| 36 | 133 | 126 | 121 | 117 | 113 | 109 | 105 | 100 | 93 | | | | | | | |
| 32 | 160 | 153 | 149 | 144 | 140 | 136 | 132 | 127 | 120 | | | | | | | |
| 28 | 180 | 174 | 170 | 166 | 162 | 158 | 155 | 150 | 144 | | | | | | | |
| 24 | 216 | 208 | 202 | 197 | 192 | 187 | 182 | 176 | 168 | | | | | | | |
| 20 | 233 | 227 | 222 | 217 | 213 | 209 | 205 | 200 | 193 | | | | | | | |
| 16 | 263 | 255 | 249 | 244 | 239 | 234 | 229 | 223 | 215 | | | | | | | |

^{*} 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 do

Complete documentation available from:

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COOP ID: 473453

Station: HARTFORD 2 W, WI

Climate Division: WI 9 NWS Call Sign: Elevation: 980 Feet Lat: 43°20N Lon: 88°25W

| | Degree Days to Selected Base Temperatures (°F) | | | | | | | | | | | | | | |
|-------|--|------|------|-----|-----|--------|------------|----------|-----|-----|-----|------|------|--|--|
| Base | | | | | | Heatin | g Degree l | Days (1) | | | | | | | |
| Below | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann | | |
| 65 | 1536 | 1249 | 1022 | 630 | 310 | 84 | 18 | 53 | 197 | 525 | 915 | 1345 | 7884 | | |
| 60 | 1381 | 1109 | 867 | 484 | 199 | 30 | 2 | 14 | 96 | 378 | 765 | 1190 | 6515 | | |
| 57 | 1288 | 1025 | 774 | 399 | 145 | 14 | 0 | 5 | 54 | 297 | 675 | 1097 | 5773 | | |
| 55 | 1226 | 969 | 712 | 346 | 114 | 8 | 0 | 2 | 35 | 247 | 615 | 1035 | 5309 | | |
| 50 | 1071 | 834 | 566 | 226 | 55 | 2 | 0 | 0 | 8 | 143 | 472 | 880 | 4257 | | |
| 32 | 554 | 394 | 151 | 12 | 0 | 0 | 0 | 0 | 0 | 4 | 97 | 394 | 1606 | | |

| Base | | | | | | Coolin | g Degree l | Days (1) | | | | | |
|-------|-----|-----|-----|-----|-----|--------|------------|----------|-----|-----|-----|-----|------|
| Above | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann |
| 32 | 41 | 70 | 152 | 372 | 744 | 998 | 1168 | 1100 | 814 | 503 | 173 | 72 | 6207 |
| 55 | 0 | 0 | 0 | 16 | 145 | 316 | 455 | 389 | 158 | 33 | 1 | 0 | 1513 |
| 57 | 0 | 0 | 0 | 10 | 114 | 262 | 393 | 330 | 118 | 20 | 0 | 0 | 1247 |
| 60 | 0 | 0 | 0 | 4 | 75 | 188 | 302 | 246 | 69 | 9 | 0 | 0 | 893 |
| 65 | 0 | 0 | 0 | 1 | 31 | 91 | 164 | 131 | 21 | 1 | 0 | 0 | 440 |
| 70 | 0 | 0 | 0 | 0 | 10 | 30 | 67 | 53 | 3 | 0 | 0 | 0 | 163 |

| | 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 | | | | | | | | | | | | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | | |
| 40 | 0 | 6 | 52 | 204 | 526 | 784 | 946 | 877 | 611 | 296 | 64 | 5 | 0 | 6 | 58 | 262 | 788 | 1572 | 2518 | 3395 | 4006 | 4302 | 4366 | 4371 |
| 45 | 0 | 0 | 24 | 115 | 377 | 634 | 791 | 722 | 462 | 181 | 28 | 1 | 0 | 0 | 24 | 139 | 516 | 1150 | 1941 | 2663 | 3125 | 3306 | 3334 | 3335 |
| 50 | 0 | 0 | 10 | 60 | 245 | 484 | 636 | 567 | 320 | 94 | 9 | 0 | 0 | 0 | 10 | 70 | 315 | 799 | 1435 | 2002 | 2322 | 2416 | 2425 | 2425 |
| 55 | 0 | 0 | 3 | 29 | 143 | 337 | 481 | 412 | 197 | 44 | 2 | 0 | 0 | 0 | 3 | 32 | 175 | 512 | 993 | 1405 | 1602 | 1646 | 1648 | 1648 |
| 60 | 0 | 0 | 0 | 11 | 71 | 210 | 327 | 264 | 107 | 13 | 0 | 0 | 0 | 0 | 0 | 11 | 82 | 292 | 619 | 883 | 990 | 1003 | 1003 | 1003 |
| Base | | • | • | Gro | wing De | gree Unit | s for Co | rn (Mont | thly) | | | | | | Gr | owing D | egree Un | its for C | orn (Acc | umulate | d Month | ly) | | |
| 50/86 | 0 | 1 | 34 | 135 | 324 | 500 | 624 | 571 | 378 | 183 | 39 | 2 | 0 | 1 | 35 | 170 | 494 | 994 | 1618 | 2189 | 2567 | 2750 | 2789 | 2791 |

(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

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

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

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