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: 452505

Lon: 120°32W

Station: ELLENSBURG, WA

Climate Division: WA 8 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 33.7 18.6 26.2 64 1971 31 36.1 1994 -29 1927 21 12.3 1979 1204 0 .0 .0 .9 12.5 29.4 2.4 Jan 22.2 41.3 23.2 32.3 1901 28 38.6 1991 -23 1956 1989 917 0 .0 .0 4.7 4.5 25.4 .9 Feb 66 1 Mar 52.3 28.7 40.5 80 1923 30 45.4 1992 -5 1955 5 35.6 1971 759 0 .0 .0 20.6 .3 22.4 0. 34.3 47.4 1977 2 43.5 1975 12.5 Apr 60.4 94 1977 25 51.4 15 1935 529 0 .0. @ 28.4 .0 .0 May 68.3 41.9 55.1 99 1986 31 59.4 1993 18 1954 1 50.6 1984 311 4 .0 .5 31.0 .0 2.8 .0 48.2 1925 30 3 57.4 2.2 75.0 61.6 103 25 67.4 1992 1918 1976 142 40 .1 30.0 .0 .1 .0 Jun Jul 82.7 52.8 67.8 1928 26 73.6 1998 35+ 1979 2 62.5 1993 48 133 .9 8.6 31.0 110 .0 .0 .0 44 82.9 52.2 67.6 103 +1977 18 71.4 1977 29+1910 25 63.6 1995 122 .7 8.3 31.0 .0 .0 .0 Aug Sep 74.5 43.3 58.9 97+ 1974 1 65.3 1998 16 1926 24 54.3 1972 215 31 .0 1.3 29.9 .0 1.9 .0 52.7 29 44.1 1984 Oct 61.5 33.3 47.4 87+ 1935 1 1988 9+ 1971 546 0 .0 .0 29.1 .1 15.6 .0 44.1 27.0 35.6 71 1933 23 41.1 1999 -17 1985 23 21.4 1985 884 0 .0 .0 8.5 22.8 .3 Nov 2.1 Dec 33.7 19.8 26.8 59+ 1938 7 34.2 1999 -31 1919 12 14.8 1983 1186 0 .0 .0 1.0 12.1 29.4 1.7 Jul Jul Dec Jan 59.2 35.3 47.3 110 1928 26 73.6 1998 -31 1919 12 12.3 1979 6785 330 1.7 20.9 246.1 162.3 5.3 31.6 Ann

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

Issue Date: February 2004 031-A

(1) From the 1971-2000 Monthly Normals

Elevation: 1,480 Feet Lat: 46°58N

- (2) Derived from station's available digital record: 1901-2001
- (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: 452505

Station: ELLENSBURG, WA

Climate Division: WA 8 NWS Call Sign: Elevation: 1,480 Feet Lat: 46°58N Lon: 120°32W

| | | | | | | | | | | Pı | recipi | tation | (incl | nes) | | | | | | | | | | |
|-------|------|-------------|---------------------|-------------|--------|-----------------------|-------------|----------------------|-------------|------------|---|------------|------------|------|------|-----------|----------|-----------|------------|----------|---------|------------|----------|-------|
| | Me | ans/ | P | recipi | itatio | on Total | | | | | Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less the indicated amount Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution | | | | | | | | | | | | less tha | n the |
| | Medi | ans(1) | | | | Extremes | • | | | D | any Free | приано | 11 | | Th | ese value | were det | ermined : | from the i | ncomplet | e gamma | distributi | on | |
| 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 | 1.23 | 1.25 | 1.10 | 1907 | 3 | 2.94 | 1995 | .12+ | 1985 | 9.2 | 4.0 | .3 | @ | .19 | .30 | .47 | .64 | .82 | 1.01 | 1.23 | 1.50 | 1.86 | 2.45 | 3.01 |
| Feb | .92 | .84 | 1.14 | 1916 | 2 | 2.09 | 1996 | .00 | 1988 | 7.6 | 3.7 | .1 | .0 | .15 | .28 | .44 | .56 | .69 | .82 | .96 | 1.13 | 1.35 | 1.70 | 2.02 |
| Mar | .77 | .62 | .96 | 1931 | 31 | 3.40 | 1971 | .07 | 1981 | 7.0 | 2.7 | .1 | .0 | .08 | .13 | .24 | .35 | .46 | .59 | .75 | .94 | 1.20 | 1.64 | 2.06 |
| Apr | .56 | .49 | .63 | 1957 | 14 | 1.21 | 1994 | .03 | 1981 | 5.7 | 2.0 | @ | .0 | .08 | .13 | .21 | .29 | .37 | .45 | .56 | .68 | .85 | 1.12 | 1.39 |
| May | .56 | .49 | .98 | 1908 | 15 | 1.60 | 1998 | .00 | 1992 | 6.5 | 1.9 | .1 | .0 | .08 | .15 | .24 | .32 | .40 | .49 | .58 | .69 | .84 | 1.08 | 1.30 |
| Jun | .63 | .44 | 1.60 | 1936 | 7 | 1.69 | 1984 | .02+ | 1989 | 5.6 | 1.9 | .3 | .0 | .04 | .08 | .16 | .24 | .34 | .45 | .59 | .76 | 1.00 | 1.41 | 1.81 |
| Jul | .37 | .32 | 1.00 | 1916 | 2 | 1.11 | 1991 | +00. | 2000 | 3.3 | 1.0 | .1 | .0 | .00 | .00 | .06 | .13 | .20 | .27 | .36 | .46 | .61 | .83 | 1.06 |
| Aug | .36 | .16 | 1.60 | 1990 | 21 | 2.11 | 1990 | +00. | 2000 | 3.1 | 1.0 | .1 | @ | .00 | .00 | .03 | .07 | .13 | .20 | .29 | .42 | .60 | .92 | 1.24 |
| Sep | .46 | .30 | 1.16 | 1984 | 23 | 1.81 | 1986 | .00+ | 1999 | 3.7 | 1.2 | .2 | @ | .00 | .00 | .00 | .05 | .14 | .24 | .38 | .55 | .80 | 1.23 | 1.66 |
| Oct | .57 | .43 | 1.55 | 1927 | 3 | 1.94 | 1997 | .00 | 1972 | 4.8 | 1.7 | .1 | .0 | .01 | .03 | .09 | .16 | .25 | .36 | .50 | .68 | .94 | 1.38 | 1.83 |
| Nov | 1.20 | 1.10 | 1.78 | 1901 | 22 | 2.60 | 1973 | .01 | 1976 | 9.8 | 4.0 | .2 | .1 | .17 | .27 | .44 | .61 | .78 | .98 | 1.20 | 1.47 | 1.83 | 2.43 | 3.00 |
| Dec | 1.47 | 1.33 | 1.50 | 1937 | 30 | 4.22 | 1996 | .07 | 1976 | 9.5 | 4.9 | .6 | @ | .18 | .30 | .51 | .71 | .93 | 1.17 | 1.45 | 1.79 | 2.26 | 3.03 | 3.78 |
| Ann | 9.10 | 8.95 | 1.78 | Nov 1901 | 22 | 4.22 | Dec 1996 | .00+ | Aug 2000 | 75.8 | 30.0 | 2.2 | .1 | 5.49 | 6.14 | 7.00 | 7.67 | 8.27 | 8.87 | 9.49 | 10.18 | 11.04 | 12.30 | 13.41 |

⁺ 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: 1901-2001

⁽³⁾ Derived from 1971-2000 serially complete daily data

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COOP ID: 452505

Station: ELLENSBURG, WA

Climate Division: WA 8 NWS Call Sign: Elevation: 1,480 Feet Lat: 46°58N Lon: 120°32W

| | | | | | | | | | | Snov | w (incl | hes) | | | | | | | | | | | | |
|-------|----------------------|------------------------|-----------------------|-------------------------|----------------------------------|-------------|-------|------------------------------------|-------------|--------------------------|-------------|------|---|-------------|-------------------------|-----|-----|------|------|--------|--------------------------|------|-----|--|
| | | | | | | Sno | ow To | tals | | | | | | | | | Mea | n Nu | mber | of Day | ys (1) | | | |
| | Mean | s/Medi | ians (1) |) | | | | | Extre | mes (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 | 7.0 | 6.0 | 4 | 3 | 10.0 | 1971 | 15 | 17.8 | 1980 | 21 | 1997 | 2 | 13+ | 1997 | 4.9 | 3.0 | .9 | .3 | @ | 17.4 | 14.0 | 11.3 | 4.7 | |
| Feb | 3.5 | 2.5 | 2 | 1 | 5.0 | 2000 | 1 | 13.2 | 1989 | 16 | 1980 | 17 | 13 | 1980 | 2.3 | 1.3 | .4 | @ | .0 | 8.1 | 5.9 | 4.6 | 1.5 | |
| Mar | 1.1 | .0 | # | # | 4.0 | 1971 | 26 | 6.5 | 1972 | 12 | 1993 | 3 | 2 | 1993 | .8 | .4 | .2 | .0 | .0 | .8 | .4 | .2 | .0 | |
| Apr | .2 | .0 | # | 0 | 4.2 | 1974 | 12 | 4.2 | 1974 | 4 | 1974 | 12 | #+ | 1999 | @ | @ | @ | .0 | .0 | @ | @ | .0 | .0 | |
| May | .0 | .0 | 0 | 0 | .0 | 0 | 0 | .0 | 0 | 0 | 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 | 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 | 1.0 | 1973 | 31 | 1.0 | 1973 | 1 | 1991 | 29 | # | 1991 | .1 | @ | .0 | .0 | .0 | @ | .0 | .0 | .0 | |
| Nov | 3.3 | .8 | 1 | # | 12.0 | 1996 | 18 | 25.0 | 1996 | 18 | 1996 | 19 | 6 | 1996 | 1.6 | 1.1 | .5 | .2 | @ | 3.3 | 1.9 | .9 | .5 | |
| Dec | 7.4 | 7.7 | 3 | 2 | 11.8 | 1996 | 28 | 19.5 | 1981 | 32 | 1996 | 28 | 15 | 1996 | 4.9 | 3.0 | 1.1 | .3 | @ | 12.2 | 8.7 | 5.0 | 1.7 | |
| Ann | 22.6 | 17.0 | N/A | N/A | 12.0 | Nov 1996 | 18 | 25.0 | Nov 1996 | 32 | Dec 1996 | 28 | 15 | Dec 1996 | 14.6 | 8.8 | 3.1 | .8 | @ | 41.8 | 30.9 | 22.0 | 8.4 | |

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

- (1) Derived from Snow Climatology and 1971-2000 daily data
- (2) Derived from 1971-2000 daily data

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

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COOP ID: 452505

Station: ELLENSBURG, WA

Climate Division: WA 8

NWS Call Sign:

Elevation: 1,480 Feet Lat

| ıt: | 46 | 58N | 1 | Lon: | 120 | 32W | |
|-----|----|-----|---|------|-----|-----|--|
| | | | | | | | |

| | | | | Freez | ze Data | | | | | | | |
|---|-------|-------|---------------|--------------|---------------|---------------|--------------|-------|-------|--|--|--|
| | | | Spri | ng Freeze D | ates (Month/ | (Day) | | | | | | |
| Temp (F) | | P | robability of | later date i | n spring (thr | u Jul 31) tha | n indicated(| (*) | | | | |
| Temp (F) | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | | | |
| 36 | 6/17 | 6/10 | 6/05 | 6/01 | 5/28 | 5/24 | 5/20 | 5/15 | 5/08 | | | |
| 32 | 5/27 | 5/21 | 5/17 | 5/14 | 5/10 | 5/07 | 5/04 | 4/30 | 4/24 | | | |
| 28 | 5/07 | 5/02 | 4/28 | 4/24 | 4/21 | 4/18 | 4/14 | 4/10 | 4/04 | | | |
| 24 | 4/25 | 4/19 | 4/14 | 4/11 | 4/07 | 4/04 | 3/31 | 3/26 | 3/20 | | | |
| 20 | 4/14 | 4/03 | 3/26 | 3/19 | 3/13 | 3/06 | 2/28 | 2/20 | 2/09 | | | |
| 16 | 3/14 | 3/05 | 2/26 | 2/21 | 2/15 | 2/10 | 2/04 | 1/29 | 1/20 | | | |
| | | | Fal | l Freeze Da | tes (Month/D | ay) | | • | • | | | |
| Probability of earlier date in fall (beginning Aug 1) than indicated(*) | | | | | | | | | | | | |
| Temp (F) | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | | | |
| 36 | 9/04 | 9/08 | 9/11 | 9/14 | 9/16 | 9/18 | 9/21 | 9/24 | 9/28 | | | |
| 32 | 9/15 | 9/19 | 9/22 | 9/24 | 9/26 | 9/29 | 10/01 | 10/04 | 10/08 | | | |
| 28 | 9/23 | 9/28 | 10/02 | 10/05 | 10/08 | 10/11 | 10/15 | 10/18 | 10/24 | | | |
| 24 | 10/10 | 10/15 | 10/18 | 10/21 | 10/24 | 10/27 | 10/30 | 11/03 | 11/08 | | | |
| 20 | 10/23 | 10/30 | 11/04 | 11/08 | 11/12 | 11/17 | 11/21 | 11/26 | 12/03 | | | |
| 16 | 10/28 | 11/07 | 11/15 | 11/21 | 11/27 | 12/03 | 12/09 | 12/16 | 12/26 | | | |
| · | | | | Freeze F | ree Period | | | • | • | | | |
| Temp (F) | | | Probability | of longer th | an indicated | freeze free p | eriod (Days) | | | | | |
| Temp (F) | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | | | |
| 36 | 135 | 127 | 121 | 115 | 110 | 105 | 100 | 94 | 85 | | | |
| 32 | 160 | 152 | 147 | 143 | 138 | 134 | 129 | 124 | 117 | | | |
| 28 | 194 | 186 | 180 | 174 | 170 | 165 | 160 | 154 | 145 | | | |
| 24 | 222 | 214 | 209 | 204 | 199 | 195 | 190 | 185 | 177 | | | |
| 20 | 286 | 271 | 261 | 252 | 244 | 236 | 227 | 216 | 202 | | | |
| 16 | 323 | 310 | 300 | 291 | 284 | 276 | 268 | 258 | 244 | | | |

^{*} 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.

Complete documentation available from:

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Station: ELLENSBURG, WA

VRG, WA COOP ID: 452505

Climate Division: WA 8 NWS Call Sign: Elevation: 1,480 Feet Lat: 46°58N Lon: 120°32W

| | Degree Days to Selected Base Temperatures (°F) | | | | | | | | | | | | | | |
|-------|--|-----|-----|-----|-----|--------|------------|----------|-----|-----|-----|------|------|--|--|
| Base | | | | | | Heatin | g Degree 1 | Days (1) | | | | | | | |
| Below | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann | | |
| 65 | 1204 | 917 | 759 | 529 | 311 | 142 | 48 | 44 | 215 | 546 | 884 | 1186 | 6785 | | |
| 60 | 1049 | 777 | 604 | 380 | 177 | 60 | 12 | 10 | 115 | 391 | 734 | 1031 | 5340 | | |
| 57 | 956 | 693 | 511 | 293 | 113 | 29 | 4 | 3 | 70 | 300 | 644 | 938 | 4554 | | |
| 55 | 894 | 637 | 449 | 238 | 79 | 16 | 1 | 1 | 47 | 242 | 584 | 876 | 4064 | | |
| 50 | 746 | 497 | 300 | 121 | 23 | 2 | 0 | 0 | 13 | 117 | 444 | 723 | 2986 | | |
| 32 | 280 | 112 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85 | 259 | 746 | | |

| Base | | | | | | Coolin | g Degree l | Days (1) | | | | | |
|-------|-----|-----|-----|-----|-----|--------|------------|----------|-----|-----|-----|-----|------|
| Above | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann |
| 32 | 99 | 119 | 274 | 461 | 716 | 888 | 1107 | 1101 | 806 | 478 | 191 | 96 | 6336 |
| 55 | 0 | 0 | 0 | 9 | 83 | 214 | 395 | 389 | 164 | 6 | 0 | 0 | 1260 |
| 57 | 0 | 0 | 0 | 4 | 55 | 166 | 336 | 329 | 126 | 3 | 0 | 0 | 1019 |
| 60 | 0 | 0 | 0 | 1 | 25 | 108 | 251 | 243 | 81 | 1 | 0 | 0 | 710 |
| 65 | 0 | 0 | 0 | 0 | 4 | 40 | 133 | 122 | 31 | 0 | 0 | 0 | 330 |
| 70 | 0 | 0 | 0 | 0 | 0 | 9 | 53 | 44 | 9 | 0 | 0 | 0 | 115 |

| | 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 | | |
| 40 | 2 | 9 | 82 | 237 | 477 | 664 | 877 | 866 | 572 | 251 | 34 | 0 | 2 | 11 | 93 | 330 | 807 | 1471 | 2348 | 3214 | 3786 | 4037 | 4071 | 4071 | | |
| 45 | 0 | 0 | 17 | 121 | 325 | 514 | 722 | 711 | 423 | 127 | 4 | 0 | 0 | 0 | 17 | 138 | 463 | 977 | 1699 | 2410 | 2833 | 2960 | 2964 | 2964 | | |
| 50 | 0 | 0 | 0 | 52 | 192 | 364 | 567 | 556 | 282 | 52 | 0 | 0 | 0 | 0 | 0 | 52 | 244 | 608 | 1175 | 1731 | 2013 | 2065 | 2065 | 2065 | | |
| 55 | 0 | 0 | 0 | 17 | 99 | 228 | 415 | 403 | 160 | 14 | 0 | 0 | 0 | 0 | 0 | 17 | 116 | 344 | 759 | 1162 | 1322 | 1336 | 1336 | 1336 | | |
| 60 | 0 | 0 | 0 | 2 | 37 | 119 | 271 | 257 | 71 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 39 | 158 | 429 | 686 | 757 | 759 | 759 | 759 | | |
| Base | Growing Degree Units for Corn (Monthly) | | | | | | | | | | | Growing Degree Units for Corn (Accumulated Monthly) | | | | | | | | | | | | | | |
| 50/86 | 0 | 10 | 72 | 171 | 298 | 403 | 544 | 540 | 385 | 202 | 18 | 0 | 0 | 10 | 82 | 253 | 551 | 954 | 1498 | 2038 | 2423 | 2625 | 2643 | 2643 | | |

(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