Station: BUTLER 2 SW, PA

Climate Division: PA 9

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: 361139

Lon: 79°55W

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 33.9 16.0 25.0 68 1985 2 34.6+ 1998 -20+ 1977 13 8.5 1977 1242 0 .0 .0 3.5 13.0 28.4 3.5 Jan 37.5 17.0 27.3 75 2000 27 37.0 1998 -19 1977 8 12.8 1979 1058 0 .0 .0 5.3 9.4 24.8 2.8 Feb Mar 47.2 24.7 36.0 84 1986 31 42.5 2000 -7 1993 15 29.3 1984 901 0 .0 .0 13.1 3.3 23.4 .4 9 38.7 1975 Apr 59.2 33.6 46.4 90 1985 24 51.6 1985 1982 9 559 0 .0. (a) 23.3 .4 14.0 .0 May 69.8 43.7 56.8 91+ 1987 30 64.8 1991 22 +1978 1 50.9 1997 282 27 .0 .1 30.6 .0 3.1 .0 53.1 31 73 78.1 65.6 97+ 1988 23 69.5 1994 1977 8 61.1 1972 90 .0 1.4 30.0 .0 .1 0. Jun Jul 81.7 57.6 69.7 102 17 73.6 1999 39 1988 65.9 1976 15 159 4.3 31.0 1988 .1 .0 .0 .0 33 80.2 56.4 68.3 100 1988 18 73.6 1995 32 1982 29 63.9 1976 135 @ 2.2 31.0 .0 @ 0. Aug 142 Sep 73.3 49.1 61.2 94+ 1973 4 65.0 1998 28 +1974 24 56.2 1975 27 .0 .7 30.0 .0 .4 .0 55.5 24 44.1 Oct 61.9 37.4 49.7 87 1986 1 1984 17 +1969 1976 479 3 .0 .0 27.6 .0 8.0 .0 49.7 30.0 39.9 79+ 1971 1 45.9 1985 0 1976 30 31.2 1976 754 0 .0 .0 15.2 1.0 18.7 @ Nov Dec 38.7 21.9 30.3 74 1982 4 37.6 1982 -14 1989 24 16.7 1989 1075 0 .0 .0 5.4 7.6 25.6 1.1 Jul Jul Jan Jan

36.7

48.0

59.3

Ann

102

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

17

73.6 +

1999

-20+

1977

13

8.5

1977

6613

441

Issue Date: February 2004 007-A

1988

.1

8.7

Elevation: 1,000 Feet Lat: 40°51N

(2) Derived from station's available digital record: 1967-2001

246.0

34.7

146.5

7.8

(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

⁽¹⁾ From the 1971-2000 Monthly Normals

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: 361139

Station: BUTLER 2 SW, PA

Climate Division: PA 9 NWS Call Sign: Elevation: 1,000 Feet Lat: 40°51N Lon: 79°55W

| | | | | | | | | | | Pı | recipi | tation | (incl | hes) | | | | | | | | | | |
|-------|-------|-------------|---------------------|-------------|--------|-----------------------|-------------|----------------------|-------------|-------------------|------------|------------|------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Me | ans/ | P | recip | itatio | on Total | | | | | ean N of D | ays (3 | 3) | Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount Monthly/Annual Precipitation vs Probability Levels | | | | | | | | | | |
| | Medi | ans(1) | | | | Extremes | , | | | - mij 2 roopimion | | | | 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 | 2.77 | 2.57 | 1.40 | 1998 | 8 | 5.09 | 1999 | .49 | 1981 | 17.2 | 7.4 | 1.5 | .3 | 1.05 | 1.30 | 1.67 | 1.98 | 2.28 | 2.57 | 2.90 | 3.27 | 3.75 | 4.49 | 5.16 |
| Feb | 2.49 | 2.48 | 2.04 | 1975 | 24 | 4.64 | 1975 | .45 | 1978 | 13.7 | 6.3 | 1.3 | .3 | .88 | 1.11 | 1.45 | 1.74 | 2.01 | 2.29 | 2.60 | 2.96 | 3.42 | 4.12 | 4.77 |
| Mar | 3.34 | 3.54 | 1.98 | 1985 | 29 | 5.74 | 1985 | 1.42 | 1995 | 14.9 | 8.1 | 2.2 | .4 | 1.44 | 1.74 | 2.16 | 2.51 | 2.83 | 3.15 | 3.50 | 3.90 | 4.41 | 5.18 | 5.88 |
| Apr | 3.48 | 3.37 | 1.80 | 1987 | 24 | 6.20 | 1973 | 1.00 | 1971 | 14.6 | 8.5 | 2.2 | .5 | 1.49 | 1.81 | 2.25 | 2.61 | 2.94 | 3.28 | 3.65 | 4.07 | 4.60 | 5.41 | 6.14 |
| May | 4.25 | 3.68 | 3.32 | 1985 | 28 | 7.31 | 1990 | 1.72 | 1993 | 14.3 | 9.0 | 3.0 | .7 | 1.87 | 2.25 | 2.78 | 3.21 | 3.62 | 4.02 | 4.46 | 4.96 | 5.58 | 6.54 | 7.40 |
| Jun | 4.23 | 4.18 | 2.38 | 1978 | 8 | 10.52 | 1972 | 1.04 | 1988 | 13.3 | 8.0 | 3.0 | 1.1 | 1.39 | 1.79 | 2.38 | 2.88 | 3.37 | 3.87 | 4.41 | 5.05 | 5.87 | 7.15 | 8.33 |
| Jul | 4.47 | 4.08 | 2.94 | 1985 | 9 | 9.71 | 1992 | .73 | 1975 | 11.9 | 7.6 | 3.0 | 1.2 | 1.41 | 1.83 | 2.46 | 3.00 | 3.52 | 4.06 | 4.66 | 5.35 | 6.25 | 7.65 | 8.94 |
| Aug | 4.03 | 3.80 | 2.56 | 1974 | 28 | 8.43 | 1974 | 1.79 | 1981 | 11.2 | 6.9 | 2.9 | 1.0 | 1.75 | 2.11 | 2.62 | 3.03 | 3.41 | 3.80 | 4.22 | 4.70 | 5.31 | 6.23 | 7.06 |
| Sep | 4.00 | 3.87 | 3.35 | 1992 | 22 | 7.49 | 1987 | .61 | 1985 | 11.6 | 7.1 | 2.6 | 1.0 | 1.20 | 1.58 | 2.15 | 2.64 | 3.11 | 3.61 | 4.15 | 4.80 | 5.62 | 6.92 | 8.12 |
| Oct | 2.63 | 2.65 | 2.73 | 1986 | 4 | 5.00 | 1986 | .40 | 1982 | 12.5 | 6.3 | 1.6 | .3 | .84 | 1.09 | 1.46 | 1.77 | 2.08 | 2.39 | 2.74 | 3.14 | 3.67 | 4.48 | 5.23 |
| Nov | 3.54 | 3.78 | 2.02 | 1999 | 3 | 10.83 | 1985 | .87 | 1976 | 14.9 | 8.0 | 2.2 | .6 | 1.19 | 1.52 | 2.01 | 2.43 | 2.83 | 3.24 | 3.69 | 4.22 | 4.89 | 5.93 | 6.90 |
| Dec | 3.18 | 2.98 | 1.93 | 1991 | 3 | 7.30 | 1990 | 1.06 | 1980 | 16.6 | 7.5 | 1.7 | .5 | 1.41 | 1.70 | 2.09 | 2.41 | 2.71 | 3.01 | 3.34 | 3.71 | 4.17 | 4.88 | 5.52 |
| Ann | 42.41 | 43.21 | 3.35 | Sep 1992 | 22 | 10.83 | Nov 1985 | .40 | Oct 1982 | 166.7 | 90.7 | 27.2 | 7.9 | 32.94 | 34.84 | 37.23 | 39.03 | 40.61 | 42.12 | 43.67 | 45.37 | 47.42 | 50.36 | 52.87 |

⁺ 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: 1967-2001

⁽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

COOP ID: 361139

Lon: 79°55W

Station: BUTLER 2 SW, PA

Climate Division: PA 9 NWS Call Sign: Elevation: 1,000 Feet

| | | | | | | | | | | Snov | v (incl | hes) | | | | | | | | | | | | |
|-------|----------------------|------------------------|-----------------------|-------------------------|----------------------------------|--------------|-------|------------------------------------|-------------|--------------------------|-------------|------|---|-------------|-------------------------|------|-----|-------------------------|------|------|------|------|-----|--|
| | | | | | | Sno | ow To | tals | | | | | | | Mean Number of Days (1) | | | | | | | | | |
| | Means/Medians (1) | | | | | Extremes (2) | | | | | | | | | | | | Snow Fall >= 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 | 12.0 | 10.0 | 3 | 1 | 8.0 | 1994 | 4 | 31.0+ | 1985 | 22 | 1985 | 26 | 10 | 1985 | 7.4 | 5.6 | 1.4 | .3 | .0 | 13.5 | 7.3 | 4.8 | 1.6 | |
| Feb | 8.4 | 9.0 | 2 | 1 | 8.0 | 1984 | 29 | 20.0 | 1985 | 19 | 1977 | 6 | 12 | 1985 | 4.9 | 3.8 | .8 | .2 | .0 | 11.6 | 6.4 | 4.4 | 1.0 | |
| Mar | 4.4 | 3.0 | 1 | # | 13.0 | 1993 | 14 | 17.5 | 1993 | 15 | 1993 | 14 | 2 | 1993 | 3.0 | 1.9 | .5 | .2 | @ | 4.9 | 2.0 | .7 | .1 | |
| Apr | .9 | .3 | # | # | 5.0 | 1987 | 4 | 7.0 | 1987 | 5 | 1987 | 4 | #+ | 2000 | .8 | .6 | @ | @ | .0 | .6 | @ | @ | .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 | 3.0 | 1993 | 31 | 3.0 | 1993 | 1 | 1993 | 31 | # | 1993 | @ | @ | @ | .0 | .0 | @ | .0 | .0 | .0 | |
| Nov | 1.7 | 1.0 | # | # | 5.0 | 1971 | 25 | 9.0 | 1971 | 6 | 1971 | 25 | 1 | 1997 | 1.5 | 1.0 | .1 | @ | .0 | 1.4 | .2 | @ | .0 | |
| Dec | 6.1 | 4.5 | 1 | 1 | 10.0 | 1992 | 11 | 13.0 | 1992 | 12 | 1992 | 11 | 4 | 1995 | 4.7 | 3.3 | .4 | .1 | @ | 6.7 | 2.5 | 1.1 | .1 | |
| Ann | 33.6 | 27.8 | N/A | N/A | 13.0 | Mar 1993 | 14 | 31.0+ | Jan 1985 | 22 | Jan 1985 | 26 | 12 | Feb 1985 | 22.3 | 16.2 | 3.2 | .8 | @ | 38.7 | 18.4 | 11.0 | 2.8 | |

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

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

Lat: 40°51N

[@] 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

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: 361139

Station: BUTLER 2 SW, PA

Climate Division: PA 9 NWS Call Sign:

NWS Call Sign: Elevation: 1,000 Feet Lat: 40°51N Lon: 79°55W

| | | | | Freez | e 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(| (*) | |
| icmp (r) | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 |
| 36 | 6/13 | 6/07 | 6/02 | 5/29 | 5/26 | 5/22 | 5/18 | 5/14 | 5/07 |
| 32 | 5/28 | 5/23 | 5/20 | 5/16 | 5/13 | 5/10 | 5/07 | 5/03 | 4/28 |
| 28 | 5/10 | 5/05 | 5/01 | 4/28 | 4/26 | 4/23 | 4/20 | 4/17 | 4/12 |
| 24 | 4/24 | 4/20 | 4/16 | 4/13 | 4/10 | 4/08 | 4/05 | 4/01 | 3/27 |
| 20 | 4/15 | 4/11 | 4/08 | 4/05 | 4/02 | 3/31 | 3/28 | 3/25 | 3/21 |
| 16 | 4/03 | 3/31 | 3/28 | 3/26 | 3/24 | 3/21 | 3/19 | 3/16 | 3/13 |
| | | | Fal | ll Freeze Da | tes (Month/D | ay) | | • | |
| Temp (F) | | Pro | bability of ea | arlier date i | n fall (beginn | ing Aug 1) t | han indicate | ed(*) | |
| remp (r) | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 |
| 36 | 9/11 | 9/15 | 9/18 | 9/21 | 9/23 | 9/25 | 9/28 | 10/01 | 10/05 |
| 32 | 9/20 | 9/25 | 9/30 | 10/03 | 10/07 | 10/10 | 10/14 | 10/18 | 10/24 |
| 28 | 10/11 | 10/15 | 10/19 | 10/21 | 10/24 | 10/26 | 10/29 | 11/01 | 11/06 |
| 24 | 10/22 | 10/26 | 10/29 | 11/01 | 11/03 | 11/06 | 11/08 | 11/11 | 11/15 |
| 20 | 11/02 | 11/08 | 11/12 | 11/15 | 11/19 | 11/22 | 11/26 | 11/30 | 12/06 |
| 16 | 11/12 | 11/19 | 11/24 | 11/28 | 12/02 | 12/06 | 12/10 | 12/15 | 12/22 |
| | | | | Freeze F | ree Period | | | | |
| Temp (F) | | | Probability | of longer th | an indicated | freeze free p | eriod (Days) | | |
| remp (r) | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 |
| 36 | 139 | 132 | 127 | 123 | 119 | 116 | 112 | 107 | 100 |
| 32 | 166 | 159 | 154 | 149 | 145 | 141 | 137 | 132 | 125 |
| 28 | 202 | 194 | 189 | 185 | 180 | 176 | 172 | 167 | 159 |
| 24 | 226 | 219 | 214 | 210 | 206 | 202 | 198 | 193 | 186 |
| 20 | 255 | 246 | 240 | 235 | 230 | 225 | 220 | 213 | 205 |
| 16 | 276 | 268 | 262 | 257 | 253 | 248 | 244 | 238 | 230 |

^{*} 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:

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: 361139

Lon: 79°55W

Station: BUTLER 2 SW, PA

Climate Division: PA 9

Elevation: 1,000 Feet Lat: 40°51N

| | | | | Deg | ree Days to | o Selected | Base Tem | peratures | (°F) | | | | | | | |
|-------|------|-------------------------|-----|-----|-------------|------------|----------|-----------|------|-----|-----|------|------|--|--|--|
| Base | | Heating Degree Days (1) | | | | | | | | | | | | | | |
| Below | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann | | | |
| 65 | 1242 | 1058 | 901 | 559 | 282 | 73 | 15 | 33 | 142 | 479 | 754 | 1075 | 6613 | | | |
| 60 | 1087 | 918 | 746 | 412 | 171 | 24 | 0 | 6 | 56 | 335 | 604 | 920 | 5279 | | | |
| 57 | 994 | 834 | 653 | 328 | 118 | 10 | 0 | 1 | 28 | 258 | 515 | 827 | 4566 | | | |
| 55 | 932 | 778 | 591 | 276 | 89 | 5 | 0 | 0 | 16 | 212 | 456 | 765 | 4120 | | | |
| 50 | 781 | 646 | 448 | 161 | 37 | 1 | 0 | 0 | 3 | 118 | 319 | 621 | 3135 | | | |
| 32 | 310 | 234 | 85 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 28 | 196 | 858 | | | |

| Base | | | | | | Coolin | g Degree I | Days (1) | | | | | |
|-------|-----|-----|-----|-----|-----|--------|------------|----------|-----|-----|-----|-----|------|
| Above | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann |
| 32 | 91 | 100 | 208 | 434 | 768 | 1007 | 1167 | 1125 | 876 | 549 | 264 | 144 | 6733 |
| 55 | 0 | 0 | 1 | 17 | 144 | 322 | 454 | 412 | 201 | 46 | 2 | 0 | 1599 |
| 57 | 0 | 0 | 0 | 9 | 111 | 267 | 392 | 350 | 153 | 30 | 1 | 0 | 1313 |
| 60 | 0 | 0 | 0 | 3 | 71 | 190 | 299 | 263 | 92 | 15 | 0 | 0 | 933 |
| 65 | 0 | 0 | 0 | 0 | 27 | 90 | 159 | 135 | 27 | 3 | 0 | 0 | 441 |
| 70 | 0 | 0 | 0 | 0 | 8 | 28 | 61 | 51 | 4 | 0 | 0 | 0 | 152 |

| | | | | | | | | | | Gro | wing | Degre | e Uni | ts (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 | 17 | 24 | 97 | 258 | 542 | 794 | 946 | 907 | 669 | 339 | 126 | 38 | 17 | 41 | 138 | 396 | 938 | 1732 | 2678 | 3585 | 4254 | 4593 | 4719 | 4757 |
| 45 | 2 | 8 | 50 | 154 | 394 | 644 | 791 | 752 | 519 | 208 | 67 | 11 | 2 | 10 | 60 | 214 | 608 | 1252 | 2043 | 2795 | 3314 | 3522 | 3589 | 3600 |
| 50 | 0 | 0 | 25 | 86 | 259 | 494 | 636 | 597 | 375 | 112 | 27 | 5 | 0 | 0 | 25 | 111 | 370 | 864 | 1500 | 2097 | 2472 | 2584 | 2611 | 2616 |
| 55 | 0 | 0 | 5 | 42 | 151 | 349 | 481 | 442 | 241 | 51 | 8 | 0 | 0 | 0 | 5 | 47 | 198 | 547 | 1028 | 1470 | 1711 | 1762 | 1770 | 1770 |
| 60 | 0 | 0 | 1 | 14 | 71 | 214 | 328 | 291 | 133 | 15 | 0 | 0 | 0 | 0 | 1 | 15 | 86 | 300 | 628 | 919 | 1052 | 1067 | 1067 | 1067 |
| Base | | • | | Gro | wing Deg | gree Unit | s for Co | rn (Mont | thly) | | | | | | Gr | owing D | egree Ur | its for C | orn (Acc | umulate | d Month | ly) | | |
| 50/86 | 10 | 19 | 79 | 181 | 344 | 513 | 629 | 597 | 426 | 219 | 81 | 23 | 10 | 29 | 108 | 289 | 633 | 1146 | 1775 | 2372 | 2798 | 3017 | 3098 | 3121 |

(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

NWS Call Sign:

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