### 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: 391739** 

Station: CLARK, SD

**Climate Division: SD 7** 

**NWS Call Sign:** 

Elevation: 1,780 Feet Lat: 44°53N Lon: 97°44W

|       |              |              |      |                     |             |   |      |             | ŗ    | Гетр                                  | eratu | re (°F) |             |            |                    |                         |           |           |          |       |      |
|-------|--------------|--------------|------|---------------------|-------------|---|------|-------------|------|---------------------------------------|-------|---------|-------------|------------|--------------------|-------------------------|-----------|-----------|----------|-------|------|
|       | Mea          | <b>n</b> (1) |      |                     |             |   |      | Extr        | emes |                                       |       |         |             |            | Days (1)<br>emp 65 | Mean Number of Days (3) |           |           |          |       |      |
| Month | Daily<br>Max | Daily<br>Min | Mean | Highest<br>Daily(2) | Year        | ar Day Highest Month(1) Year Lowest Daily(2) Year |      | Year        | Day  | Day   Lowest   Month(1)   Year   Mean |       | Heating | Cooling     | Max >= 100 | Max >= 90          | Max >= 50               | Max <= 32 | Min <= 32 | Min <= 0 |       |      |
| Jan   | 20.4         | .7           | 10.6 | 66                  | 1981        | 24  | 24.2 | 1990        | -42  | 1912                                  | 12    | -2.0    | 1982        | 1688       | 0                  | .0                      | .0        | .4        | 23.4     | 30.9  | 14.9 |
| Feb   | 26.9         | 7.5          | 17.2 | 67                  | 1958        | 23  | 30.3 | 1987        | -40  | 1905                                  | 2     | 3.7     | 1989        | 1338       | 0                  | .0                      | .0        | 1.4       | 16.3     | 27.9  | 8.4  |
| Mar   | 38.6         | 19.1         | 28.9 | 85                  | 1943        | 30  | 38.1 | 2000        | -27  | 1913                                  | 2     | 20.3    | 1996        | 1122       | 0                  | .0                      | .0        | 6.7       | 8.4      | 27.7  | 2.7  |
| Apr   | 54.9         | 32.1         | 43.5 | 95+                 | 1980        | 21  | 50.6 | 1977        | -8   | 1975                                  | 3     | 36.0    | 1975        | 646        | 1                  | .0                      | .1        | 20.6      | .8       | 15.8  | .1   |
| May   | 68.1         | 45.4         | 56.8 | 107                 | 1934        | 30  | 64.6 | 1977        | 16+  | 1946                                  | 12    | 51.7    | 1979        | 278        | 23                 | .0                      | .1        | 29.8      | .0       | 2.2   | .0   |
| Jun   | 76.9         | 54.9         | 65.9 | 108                 | 1933        | 26  | 73.8 | 1988        | 28   | 1951                                  | 2     | 60.2    | 1982        | 81         | 107                | .1                      | 1.7       | 30.0      | .0       | .0    | .0   |
| Jul   | 82.7         | 59.8         | 71.3 | 110+                | 1940        | 24  | 76.7 | 1974        | 38+  | 1930                                  | 14    | 62.4    | 1992        | 29         | 223                | .5                      | 6.4       | 31.0      | .0       | .0    | .0   |
| Aug   | 80.7         | 57.2         | 69.0 | 108                 | 1937        | 15  | 75.6 | 1983        | 32+  | 1935                                  | 28    | 63.3+   | 1992        | 48         | 170                | .4                      | 4.8       | 31.0      | .0       | .0    | .0   |
| Sep   | 71.3         | 46.7         | 59.0 | 104+                | 1931        | 10  | 65.8 | 1998        | 15   | 1926                                  | 25    | 53.2    | 1993        | 215        | 35                 | .1                      | 1.8       | 29.3      | .0       | 1.2   | .0   |
| Oct   | 58.0         | 34.1         | 46.1 | 96                  | 1914        | 3   | 51.5 | 1973        | -8   | 1925                                  | 29    | 41.6    | 1976        | 588        | 0                  | .0                      | .0        | 24.3      | .4       | 12.1  | .0   |
| Nov   | 37.9         | 19.5         | 28.7 | 78                  | 1999        | 9   | 40.7 | 1999        | -22  | 1964                                  | 30    | 16.6    | 1985        | 1091       | 0                  | .0                      | .0        | 6.4       | 10.4     | 26.7  | 1.6  |
| Dec   | 24.6         | 6.3          | 15.5 | 63+                 | 1941        | 3   | 25.1 | 1997        | -35+ | 1967                                  | 31    | -1.8    | 1983        | 1538       | 0                  | .0                      | .0        | .6        | 20.5     | 30.8  | 9.7  |
| Ann   | 53.4         | 31.9         | 42.7 | 110+                | Jul<br>1940 | 24  | 76.7 | Jul<br>1974 | -42  | Jan<br>1912                           | 12    | -2.0    | Jan<br>1982 | 8662       | 559                | 1.1                     | 14.9      | 211.5     | 80.2     | 175.3 | 37.4 |

<sup>+</sup> Also occurred on an earlier date(s)

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

Issue Date: February 2004 017-A

- (2) Derived from station's available digital record: 1896-2001
- (3) Derived from 1971-2000 serially complete daily data

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>(1)</sup> From the 1971-2000 Monthly Normals

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**COOP ID: 391739** 

Station: CLARK, SD

Florestion, 1.780 Fact | Lat. 44°52N | Lan. 07°44W

| Climate Division: SD 7 | <b>NWS Call Sign:</b> | Elevation: 1,780 Feet Lat: 44°53N Lon: 97°44W |  |
|------------------------|-----------------------|---|--|
|                        |                       |   |  |
|                        |                       | Precinitation (inches)                        |  |

|       |       |             |                     |             |       |                       |             |                      |             | Pı         | recipit        | tation           | (incl      | nes)  |           |            |          |                              |                           |           |           |       |          |        |
|-------|-------|-------------|---------------------|-------------|-------|-----------------------|-------------|----------------------|-------------|------------|----------------|------------------|------------|-------|-----------|------------|----------|------------------------------|---------------------------|-----------|-----------|-------|----------|--------|
|       | Mea   | ans/        | P                   | recipi      | tatio | n Total               | s           |                      |             | M          | lean N<br>of D | lumbo<br>Pays (3 |            | Proba | bility th | nat the n  | nonthly/ | annual <sub>I</sub><br>indic | on Prolorecipital ated am | ntion wil | ll be equ |       | less tha | ın the |
|       | Medi  |             |                     |             |       | Extremes              | S           |                      |             | D          | aily Pre       | cipitatio        | n          |       | Th        | ese values | •        |                              | •                         |           | •         |       | ion      |        |
| Month | Mean  | Med-<br>ian | Highest<br>Daily(2) | Year        | Day   | Highest<br>Monthly(1) | Year        | Lowest<br>Monthly(1) | Year        | >=<br>0.01 | >=<br>0.10     | >=<br>0.50       | >=<br>1.00 | .05   | .10       | .20        | .30      | .40                          | .50                       | .60       | .70       | .80   | .90      | .95    |
| Jan   | .65   | .59         | 1.12                | 1917        | 21    | 1.78+                 | 1979        | .00                  | 1990        | 6.3        | 2.4            | .1               | @          | .07   | .15       | .26        | .35      | .45                          | .55                       | .66       | .80       | .98   | 1.27     | 1.55   |
| Feb   | .61   | .51         | 2.00                | 1946        | 5     | 1.39                  | 1977        | .02                  | 1983        | 5.5        | 2.2            | .1               | .0         | .13   | .19       | .28        | .36      | .44                          | .53                       | .62       | .74       | .89   | 1.14     | 1.37   |
| Mar   | 1.31  | 1.14        | 1.46                | 1942        | 25    | 3.44                  | 1977        | .11                  | 1971        | 7.1        | 3.9            | .7               | .0         | .24   | .36       | .55        | .73      | .91                          | 1.10                      | 1.32      | 1.59      | 1.95  | 2.52     | 3.06   |
| Apr   | 1.98  | 1.92        | 2.78                | 1912        | 13    | 6.68                  | 1986        | .24                  | 1996        | 7.8        | 4.7            | 1.1              | .3         | .39   | .57       | .86        | 1.13     | 1.40                         | 1.69                      | 2.02      | 2.41      | 2.93  | 3.77     | 4.57   |
| May   | 2.86  | 2.57        | 3.10                | 1945        | 31    | 9.26                  | 1972        | .49                  | 1992        | 9.5        | 5.9            | 1.8              | .5         | .70   | .97       | 1.38       | 1.75     | 2.12                         | 2.51                      | 2.94      | 3.46      | 4.13  | 5.20     | 6.20   |
| Jun   | 3.75  | 2.92        | 3.75                | 1977        | 15    | 9.87                  | 1993        | .86                  | 1987        | 10.2       | 6.5            | 2.5              | 1.0        | .95   | 1.30      | 1.85       | 2.33     | 2.81                         | 3.31                      | 3.87      | 4.53      | 5.40  | 6.77     | 8.06   |
| Jul   | 3.14  | 2.51        | 4.42                | 1997        | 25    | 7.74                  | 1997        | .09                  | 1976        | 8.8        | 5.8            | 1.9              | .7         | .41   | .67       | 1.11       | 1.55     | 2.01                         | 2.52                      | 3.11      | 3.84      | 4.82  | 6.44     | 7.99   |
| Aug   | 2.90  | 2.86        | 4.01                | 1900        | 4     | 4.91                  | 1994        | 1.00                 | 1973        | 8.3        | 5.1            | 1.8              | .8         | 1.05  | 1.32      | 1.71       | 2.04     | 2.36                         | 2.68                      | 3.03      | 3.43      | 3.95  | 4.75     | 5.48   |
| Sep   | 1.99  | 1.72        | 4.70                | 1900        | 8     | 5.79                  | 1986        | .05                  | 1998        | 6.6        | 4.2            | 1.2              | .5         | .21   | .36       | .64        | .92      | 1.21                         | 1.55                      | 1.94      | 2.42      | 3.09  | 4.18     | 5.25   |
| Oct   | 1.76  | 1.26        | 3.80                | 1946        | 6     | 6.60                  | 1998        | .08                  | 1992        | 7.1        | 3.4            | 1.1              | .3         | .12   | .23       | .46        | .70      | .97                          | 1.28                      | 1.65      | 2.13      | 2.79  | 3.90     | 5.01   |
| Nov   | 1.04  | .82         | 1.28                | 1977        | 8     | 3.17                  | 2000        | .01                  | 1990        | 6.3        | 3.0            | .6               | .1         | .03   | .08       | .19        | .32      | .47                          | .67                       | .91       | 1.23      | 1.69  | 2.48     | 3.29   |
| Dec   | .47   | .42         | 1.50                | 1949        | 11    | 1.54                  | 1977        | .00                  | 1986        | 5.3        | 1.9            | @                | .0         | .04   | .09       | .17        | .24      | .31                          | .39                       | .47       | .58       | .72   | .95      | 1.17   |
| Ann   | 22.46 | 23.66       | 4.70                | Sep<br>1900 | 8     | 9.87                  | Jun<br>1993 | .00+                 | Jan<br>1990 | 88.8       | 49.0           | 12.9             | 4.2        | 13.77 | 15.36     | 17.43      | 19.05    | 20.50                        | 21.93                     | 23.42     | 25.09     | 27.13 | 30.15    | 32.81  |

<sup>+</sup> Also occurred on an earlier date(s)

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

<sup>#</sup> Denotes amounts of a trace

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>\*\*</sup> Statistics not computed because less than six years out of thirty had measurable precipitation

<sup>(1)</sup> From the 1971-2000 Monthly Normals

<sup>(2)</sup> Derived from station's available digital record: 1896-2001

<sup>(3)</sup> Derived from 1971-2000 serially complete daily data

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Station: CLARK, SD

Climate Division: SD 7 NWS Call Sign:

Elevation: 1,780 Feet La

Lat: 44°53N

Lon: 97°44W

**COOP ID: 391739** 

|       |                      |                        |   |       |   |             |    |      |             | Snov    | w (incl     | hes) |     |             |      |      |       |      |      |        |               |                 |      |
|-------|----------------------|------------------------|---|-------|---|-------------|----|------|-------------|---------|-------------|------|-----|-------------|------|------|-------|------|------|--------|---------------|-----------------|------|
|       |                      |                        | Fall Median         Depth Median         Depth Median         Daily Snow Fall         Year Snow Fall         Monthly Snow Fall         Year Snow Depth         Year Snow Depth         Day Snow Depth         Year Snow Depth |       |   |             |    |      |             |         |             |      |     |             |      |      | Mea   | n Nu | mber | of Day | <b>yS</b> (1) |                 |      |
|       | Mean                 | s/Medi                 | ians (1)  | )     |   |             |    |      | Extre       | mes (2) |             |      |     |             |      |      | ow Fa |      |      |        |               | Depth<br>esholo |      |
| Month | Snow<br>Fall<br>Mean | Snow<br>Fall<br>Median | Depth   | Depth | Highest Daily Snow Fall Highest Day Snow Fall Highest Daily Snow Fall Highest Daily Snow Depth Highest Daily Snow Depth Highest Day Monthly Monthly Monthly Day Mean Snow Depth |             |    |      |             |         |             |      | 0.1 | 1.0         | 3.0  | 5.0  | 10.0  | 1    | 3    | 5      | 10            |                 |      |
| Jan   | 8.3                  | 6.0                    | 6   | 5     | 7.0   | 1997        | 4  | 24.2 | 1979        | 24      | 1997        | 12   | 19  | 1997        | 6.1  | 3.0  | .8    | .2   | .0   | 24.2   | 20.5          | 14.9            | 4.5  |
| Feb   | 6.1                  | 6.1                    | 7   | 5     | 10.5  | 1997        | 4  | 10.5 | 1997        | 28      | 1997        | 5    | 23  | 1997        | 4.5  | 2.2  | .8    | .1   | @    | 23.5   | 20.1          | 14.9            | 7.4  |
| Mar   | 5.7                  | 3.1                    | 4   | 2     | 9.0   | 1984        | 4  | 21.5 | 1975        | 24+     | 1997        | 7    | 18  | 1997        | 2.5  | 1.9  | .6    | .3   | .0   | 11.4   | 8.8           | 6.2             | 2.7  |
| Apr   | 1.0                  | .0                     | #   | 0     | 9.0   | 1995        | 12 | 9.0  | 1995        | 18      | 1975        | 1    | 4   | 1975        | .6   | .5   | .2    | .1   | .0   | 1.1    | .6            | .3              | .3   |
| 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     | #   | 1995        | 21 | #    | 1995        | #       | 1995        | 21   | #   | 1995        | .0   | .0   | .0    | .0   | .0   | .0     | .0            | .0              | .0   |
| Oct   | .8                   | .0                     | #   | 0     | 7.0   | 1995        | 24 | 11.0 | 1995        | 7       | 1995        | 24   | 1   | 1995        | .4   | .3   | @     | @    | .0   | .3     | .1            | .1              | .0   |
| Nov   | 6.0                  | 4.1                    | 1   | #     | 9.5   | 1993        | 25 | 18.8 | 1993        | 15+     | 1993        | 25   | 7   | 2000        | 3.3  | 2.3  | .5    | .3   | .0   | 6.4    | 3.2           | 1.7             | .4   |
| Dec   | 6.2                  | 4.3                    | 4   | 2     | 7.5   | 1981        | 1  | 16.5 | 1981        | 17+     | 1996        | 25   | 12  | 1996        | 5.0  | 2.4  | .3    | .2   | .0   | 15.2   | 10.6          | 8.3             | 1.6  |
| Ann   | 34.1                 | 23.6                   | N/A   | N/A   | 10.5  | Feb<br>1997 | 4  | 24.2 | Jan<br>1979 | 28      | Feb<br>1997 | 5    | 23  | Feb<br>1997 | 22.4 | 12.6 | 3.2   | 1.2  | @    | 82.1   | 63.9          | 46.4            | 16.9 |

<sup>+</sup> Also occurred on an earlier date(s) #Denotes trace amounts

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

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>-9/-9.9</sup> represents missing values Annual statistics for Mean/Median snow depths are not appropriate

<sup>(1)</sup> Derived from Snow Climatology and 1971-2000 daily data

<sup>(2)</sup> Derived from 1971-2000 daily data

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**COOP ID: 391739** 

Station: CLARK, SD Climate Division: SD 7

**NWS Call Sign:** 

Elevation: 1,780 Feet

Lat: 44°53N Lon: 97°44W

|          |       |       |                | Freez         | e Data         |                |              |       |       |
|----------|-------|-------|----------------|---------------|----------------|----------------|--------------|-------|-------|
|          |       |       | Spri           | ng Freeze D   | ates (Month/   | /Day)          |              |       |       |
| Temp (F) |       | P     | robability of  | later date i  | n spring (thr  | ru Jul 31) tha | n indicated( | (*)   |       |
| Temp (F) | .10   | .20   | .30            | .40           | .50            | .60            | .70          | .80   | .90   |
| 36       | 5/28  | 5/24  | 5/20           | 5/18          | 5/15           | 5/13           | 5/10         | 5/07  | 5/02  |
| 32       | 5/17  | 5/13  | 5/10           | 5/07          | 5/05           | 5/03           | 4/30         | 4/27  | 4/23  |
| 28       | 5/10  | 5/05  | 5/02           | 4/29          | 4/26           | 4/23           | 4/20         | 4/17  | 4/12  |
| 24       | 4/29  | 4/24  | 4/21           | 4/18          | 4/15           | 4/12           | 4/10         | 4/06  | 4/02  |
| 20       | 4/16  | 4/12  | 4/09           | 4/06          | 4/03           | 4/01           | 3/29         | 3/26  | 3/22  |
| 16       | 4/10  | 4/06  | 4/03           | 3/31          | 3/29           | 3/26           | 3/23         | 3/20  | 3/16  |
|          |       |       | Fal            | l Freeze Da   | tes (Month/D   | Day)           |              |       |       |
| Tomp (F) |       | Pro   | bability of ea | arlier date i | n fall (beginr | ning Aug 1) t  | han indicate | ed(*) |       |
| Temp (F) | .10   | .20   | .30            | .40           | .50            | .60            | .70          | .80   | .90   |
| 36       | 9/13  | 9/16  | 9/19           | 9/21          | 9/23           | 9/25           | 9/27         | 9/30  | 10/03 |
| 32       | 9/20  | 9/23  | 9/26           | 9/28          | 9/30           | 10/01          | 10/03        | 10/06 | 10/09 |
| 28       | 9/24  | 9/28  | 10/01          | 10/04         | 10/07          | 10/09          | 10/12        | 10/15 | 10/19 |
| 24       | 10/07 | 10/11 | 10/14          | 10/17         | 10/20          | 10/22          | 10/25        | 10/28 | 11/02 |
| 20       | 10/11 | 10/17 | 10/21          | 10/25         | 10/28          | 10/31          | 11/04        | 11/08 | 11/14 |
| 16       | 10/25 | 10/30 | 11/02          | 11/05         | 11/07          | 11/10          | 11/13        | 11/16 | 11/20 |
| •        |       |       | •              | Freeze F      | ree Period     |                | •            | 1     | •     |
| Tomp (F) |       |       | Probability    | of longer th  | an indicated   | freeze free p  | eriod (Days) | )     |       |
| Temp (F) | .10   | .20   | .30            | .40           | .50            | .60            | .70          | .80   | .90   |
| 36       | 148   | 142   | 137            | 134           | 130            | 127            | 123          | 118   | 112   |
| 32       | 162   | 157   | 153            | 150           | 147            | 144            | 140          | 137   | 131   |
| 28       | 182   | 175   | 171            | 167           | 163            | 159            | 155          | 151   | 144   |
| 24       | 207   | 200   | 195            | 191           | 187            | 183            | 179          | 174   | 167   |
| 20       | 230   | 222   | 217            | 212           | 207            | 202            | 197          | 191   | 183   |
| 16       | 242   | 235   | 231            | 227           | 223            | 219            | 215          | 211   | 204   |

<sup>\*</sup> 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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Elevation: 1,780 Feet Lat: 44°53N

**COOP ID: 391739** 

Lon: 97°44W

**Station: CLARK, SD** 

**Climate Division: SD 7** 

|       |      |      |      | Deg | ree Days t | o Selected | Base Tem   | peratures | (°F) |     |      |      |      |
|-------|------|------|------|-----|------------|------------|------------|-----------|------|-----|------|------|------|
| Base  |      |      |      |     |            | Heatin     | g Degree l | Days (1)  |      |     |      |      |      |
| Below | Jan  | Feb  | Mar  | Apr | May        | Jun        | Jul        | Aug       | Sep  | Oct | Nov  | Dec  | Ann  |
| 65    | 1688 | 1338 | 1122 | 646 | 278        | 81         | 29         | 48        | 215  | 588 | 1091 | 1538 | 8662 |
| 60    | 1533 | 1198 | 967  | 502 | 167        | 28         | 8          | 15        | 117  | 434 | 941  | 1383 | 7293 |
| 57    | 1440 | 1114 | 874  | 419 | 114        | 13         | 1          | 5         | 73   | 344 | 851  | 1290 | 6538 |
| 55    | 1378 | 1058 | 812  | 367 | 86         | 6          | 0          | 3         | 50   | 287 | 791  | 1228 | 6066 |
| 50    | 1223 | 925  | 658  | 249 | 36         | 0          | 0          | 0         | 15   | 165 | 647  | 1073 | 4991 |
| 32    | 700  | 479  | 207  | 22  | 0          | 0          | 0          | 0         | 0    | 5   | 220  | 566  | 2199 |

| Base  |     |     |     |     |     | Coolin | g Degree l | Days (1) |     |     |     |     |      |
|-------|-----|-----|-----|-----|-----|--------|------------|----------|-----|-----|-----|-----|------|
| Above | Jan | Feb | Mar | Apr | May | Jun    | Jul        | Aug      | Sep | Oct | Nov | Dec | Ann  |
| 32    | 35  | 64  | 108 | 367 | 768 | 1016   | 1217       | 1145     | 810 | 440 | 119 | 51  | 6140 |
| 55    | 0   | 0   | 0   | 22  | 141 | 333    | 504        | 435      | 170 | 10  | 0   | 0   | 1615 |
| 57    | 0   | 0   | 0   | 14  | 107 | 279    | 444        | 375      | 133 | 5   | 0   | 0   | 1357 |
| 60    | 0   | 0   | 0   | 7   | 67  | 204    | 358        | 292      | 87  | 1   | 0   | 0   | 1016 |
| 65    | 0   | 0   | 0   | 1   | 23  | 107    | 223        | 170      | 35  | 0   | 0   | 0   | 559  |
| 70    | 0   | 0   | 0   | 0   | 5   | 43     | 123        | 84       | 11  | 0   | 0   | 0   | 266  |

|       |   |     |     |     |         |          |          |           |     | Gro | wing ] | Degre | e Uni | ts (2) |     |         |          |            |          |          |         |      |      |      |
|-------|---|-----|-----|-----|---------|----------|----------|-----------|-----|-----|--------|-------|-------|--------|-----|---------|----------|------------|----------|----------|---------|------|------|------|
| Base  |   |     |     |     | Growing | g Degree | Units (N | (Ionthly) |     |     |        |       |       |        |     | Growi   | ng Degre | ee Units ( | Accumu   | lated Mo | nthly)  |      |      |      |
|       | 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   | 1   | 35  | 201 | 550     | 800      | 992      | 936       | 606 | 266 | 31     | 1     | 0     | 1      | 36  | 237     | 787      | 1587       | 2579     | 3515     | 4121    | 4387 | 4418 | 4419 |
| 45    |   |     |     |     |         |          |          |           |     |     |        |       | 0     | 0      | 9   | 128     | 529      | 1179       | 2016     | 2797     | 3262    | 3420 | 3432 | 3432 |
| 50    |   |     |     |     |         |          |          |           |     |     |        | 0     | 0     | 0      | 2   | 65      | 332      | 832        | 1514     | 2140     | 2465    | 2547 | 2551 | 2551 |
| 55    | 0   | 0   | 0   | 31  | 154     | 355      | 527      | 471       | 205 | 33  | 0      | 0     | 0     | 0      | 0   | 31      | 185      | 540        | 1067     | 1538     | 1743    | 1776 | 1776 | 1776 |
| 60    | <b>60</b> 0 0 0 13 76 222 375 321 113 8 0       |     |     |     |         |          |          |           |     |     | 0      | 0     | 0     | 0      | 13  | 89      | 311      | 686        | 1007     | 1120     | 1128    | 1128 | 1128 |      |
| Base  | Growing Degree Units for Corn (Monthly)         |     |     |     |         |          |          |           |     |     |        |       |       |        | Gr  | owing D | egree Un | its for C  | orn (Acc | umulate  | d Month | ly)  | •    |      |
| 50/86 | <b>36</b> 0 0 31 139 333 507 656 607 374 169 27 |     |     |     |         |          |          |           |     |     |        | 0     | 0     | 0      | 31  | 170     | 503      | 1010       | 1666     | 2273     | 2647    | 2816 | 2843 | 2843 |

(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