### 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: 662336** 

Lon: 66°34W

Station: CERRO MARAVILLA, PR

Climate Division: PR 6 NWS Call Sign:

|       |              |              |      |                     |             |     |                             |             | r                  | Гетре       | eratui | re (°F)                    |             |                  |                    |           |           |           |           |           |          |
|-------|--------------|--------------|------|---------------------|-------------|-----|-----------------------------|-------------|--------------------|-------------|--------|----------------------------|-------------|------------------|--------------------|-----------|-----------|-----------|-----------|-----------|----------|
|       | Mea          | <b>n</b> (1) |      |                     |             |     |                             | Extr        | emes               |             |        |                            |             | Degree<br>Base T | Days (1)<br>emp 65 |           | Mean      | Numb      | er of I   | Days (3)  |          |
| Month | Daily<br>Max | Daily<br>Min | Mean | Highest<br>Daily(2) | Year        | Day | Highest<br>Month(1)<br>Mean | Year        | Lowest<br>Daily(2) | Year        | Day    | Lowest<br>Month(1)<br>Mean | Year        | Heating          | Cooling            | Max >= 90 | Max >= 70 | Max >= 50 | Max <= 32 | Min <= 32 | Min <= 0 |
| Jan   | 68.2         | 55.9         | 62.1 | 85                  | 1984        | 1   | 64.6                        | 1981        | 48                 | 2000        | 17     | 59.3                       | 1991        | 106              | 14                 | .0        | 11.8      | 31.0      | .0        | .0        | .0       |
| Feb   | 68.3         | 55.3         | 61.8 | 81+                 | 1981        | 14  | 64.3                        | 1979        | 46                 | 1990        | 16     | 58.2                       | 1990        | 100              | 9                  | .0        | 11.0      | 28.3      | .0        | .0        | .0       |
| Mar   | 68.8         | 55.6         | 62.2 | 81                  | 1981        | 3   | 65.2                        | 1983        | 48+                | 1995        | 28     | 59.2+                      | 1993        | 94               | 20                 | .0        | 13.7      | 31.0      | .0        | .0        | .0       |
| Apr   | 69.6         | 57.2         | 63.4 | 80+                 | 1982        | 24  | 65.9                        | 1987        | 41                 | 1986        | 5      | 61.0                       | 1990        | 74               | 26                 | .0        | 14.4      | 30.0      | .0        | .0        | .0       |
| May   | 70.4         | 59.1         | 64.8 | 82+                 | 1982        | 2   | 66.7+                       | 1983        | 45                 | 1985        | 18     | 62.2                       | 1990        | 47               | 39                 | .0        | 17.2      | 31.0      | .0        | .0        | .0       |
| Jun   | 72.5         | 60.8         | 66.7 | 84+                 | 1985        | 9   | 68.6                        | 1983        | 51                 | 1985        | 7      | 64.6                       | 1993        | 14               | 64                 | .0        | 22.0      | 30.0      | .0        | .0        | .0       |
| Jul   | 73.2         | 61.3         | 67.3 | 87                  | 1983        | 4   | 69.6                        | 1983        | 47                 | 1970        | 17     | 64.3                       | 1991        | 13               | 82                 | .0        | 23.9      | 31.0      | .0        | .0        | .0       |
| Aug   | 73.0         | 61.5         | 67.3 | 85                  | 1981        | 31  | 69.5                        | 1980        | 52                 | 1985        | 11     | 64.1                       | 1991        | 18               | 87                 | .0        | 22.7      | 31.0      | .0        | .0        | .0       |
| Sep   | 73.7         | 60.9         | 67.3 | 84+                 | 1983        | 19  | 69.4                        | 1987        | 52                 | 1985        | 13     | 64.8                       | 1992        | 14               | 83                 | .0        | 21.6      | 30.0      | .0        | .0        | .0       |
| Oct   | 72.6         | 61.0         | 66.8 | 85+                 | 1980        | 13  | 68.8                        | 1980        | 52                 | 1986        | 5      | 64.0                       | 1992        | 20               | 75                 | .0        | 21.7      | 31.0      | .0        | .0        | .0       |
| Nov   | 71.3         | 59.3         | 65.3 | 83+                 | 1983        | 14  | 67.2                        | 1980        | 51                 | 1984        | 29     | 62.7                       | 1993        | 40               | 47                 | .0        | 19.1      | 30.0      | .0        | .0        | .0       |
| Dec   | 69.6         | 56.9         | 63.3 | 83                  | 1982        | 14  | 66.7                        | 1997        | 48+                | 1980        | 8      | 59.8                       | 1991        | 84               | 30                 | .0        | 15.8      | 31.0      | .0        | .0        | .0       |
| Ann   | 70.9         | 58.7         | 64.9 | 87                  | Jul<br>1983 | 4   | 69.6                        | Jul<br>1983 | 41                 | Apr<br>1986 | 5      | 58.2                       | Feb<br>1990 | 624              | 576                | .0        | 214.9     | 365.3     | .0        | .0        | .0       |

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

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

Issue Date: May 2005 010-A

(1) From the 1971-2000 Monthly Normals

Elevation: 4,002 Feet Lat: 18°09N

- (2) Derived from station's available digital record: 1969-2001
- (3) Derived from 1971-2000 serially complete daily data

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

## 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: 662336** 

Station: CERRO MARAVILLA, PR

Climate Division: PR 6 NWS Call Sign: Elevation: 4,002 Feet Lat: 18°09N Lon: 66°34W

|       |       |             |                     |             |        |                       |             |                      |             | Pı         | ecipit     | tation     | (incl      | nes)  |            |           |            |                   |            |           |          |            |          |        |
|-------|-------|-------------|---------------------|-------------|--------|-----------------------|-------------|----------------------|-------------|------------|------------|------------|------------|-------|------------|-----------|------------|-------------------|------------|-----------|----------|------------|----------|--------|
|       | Mea   | ans/        | P                   | recipi      | itatio | on Total              |             |                      |             |            | ean N of D | ays (3     | )          | Proba | ability th |           | nonthly/   | annual j<br>indic | ated am    | ation wi  | ies (1)  |            | less tha | ın the |
|       | Medi  | ans(1)      |                     |             |        | Extremes              | •           |                      |             | "          | any Free   | приано     | 11         |       | Th         | ese value | s were det | ermined           | from the i | incomplet | te gamma | distributi | on       | ļ      |
| 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   | 4.02  | 3.35        | 12.00               | 1992        | 6      | 21.42                 | 1992        | .82                  | 1985        | 14.5       | 8.6        | 1.9        | .8         | .75   | 1.11       | 1.70      | 2.25       | 2.80              | 3.40       | 4.08      | 4.90     | 5.99       | 7.74     | 9.41   |
| Feb   | 3.58  | 3.43        | 3.28                | 1981        | 15     | 9.10                  | 1996        | .97                  | 1975        | 13.0       | 8.1        | 1.7        | .6         | 1.20  | 1.53       | 2.03      | 2.45       | 2.86              | 3.27       | 3.73      | 4.26     | 4.95       | 6.01     | 6.99   |
| Mar   | 4.34  | 3.66        | 4.00                | 1991        | 27     | 12.60                 | 1972        | 1.55                 | 1990        | 13.6       | 8.2        | 2.3        | 1.0        | 1.25  | 1.67       | 2.29      | 2.82       | 3.35              | 3.90       | 4.50      | 5.21     | 6.14       | 7.58     | 8.93   |
| Apr   | 6.99  | 7.53        | 5.22                | 1983        | 21     | 14.61                 | 1992        | .71                  | 1997        | 13.7       | 10.2       | 4.4        | 1.9        | 1.41  | 2.05       | 3.08      | 4.02       | 4.96              | 5.98       | 7.13      | 8.51     | 10.34      | 13.26    | 16.04  |
| May   | 11.12 | 10.00       | 10.00               | 1985        | 18     | 31.26                 | 1985        | 2.50                 | 1990        | 18.4       | 13.9       | 6.6        | 3.0        | 2.70  | 3.74       | 5.37      | 6.81       | 8.24              | 9.76       | 11.45     | 13.47    | 16.11      | 20.29    | 24.21  |
| Jun   | 6.65  | 5.75        | 6.00                | 1983        | 16     | 14.20                 | 1999        | 1.09                 | 1977        | 12.8       | 9.0        | 4.0        | 1.9        | 1.66  | 2.28       | 3.25      | 4.11       | 4.96              | 5.85       | 6.85      | 8.04     | 9.59       | 12.05    | 14.35  |
| Jul   | 5.79  | 5.72        | 6.42                | 1986        | 25     | 11.74                 | 1991        | 1.02                 | 1992        | 12.5       | 9.2        | 3.4        | 1.5        | 1.50  | 2.05       | 2.89      | 3.63       | 4.36              | 5.13       | 5.98      | 7.00     | 8.32       | 10.41    | 12.36  |
| Aug   | 9.58  | 8.88        | 6.60                | 1988        | 25     | 22.16                 | 1979        | 3.89                 | 1984        | 16.6       | 13.2       | 5.7        | 2.6        | 4.26  | 5.12       | 6.30      | 7.27       | 8.17              | 9.07       | 10.05     | 11.16    | 12.56      | 14.69    | 16.61  |
| Sep   | 14.01 | 13.58       | 16.00               | 1975        | 16     | 32.35                 | 1975        | 3.60                 | 1986        | 19.4       | 15.7       | 8.1        | 4.7        | 4.84  | 6.16       | 8.09      | 9.72       | 11.28             | 12.88      | 14.63     | 16.67    | 19.29      | 23.33    | 27.06  |
| Oct   | 14.67 | 12.34       | 22.90               | 1985        | 7      | 46.22                 | 1985        | 6.66                 | 1975        | 21.6       | 17.3       | 9.4        | 4.8        | 6.04  | 7.38       | 9.27      | 10.83      | 12.29             | 13.78      | 15.38     | 17.22    | 19.56      | 23.13    | 26.37  |
| Nov   | 8.16  | 8.01        | 8.30                | 1987        | 28     | 17.92                 | 1987        | 1.16                 | 1976        | 17.5       | 12.1       | 5.0        | 2.4        | 1.60  | 2.33       | 3.53      | 4.63       | 5.75              | 6.94       | 8.30      | 9.94     | 12.10      | 15.58    | 18.88  |
| Dec   | 3.80  | 3.51        | 3.54                | 1975        | 11     | 9.50                  | 1975        | .69                  | 1997        | 15.4       | 8.7        | 2.1        | .6         | 1.06  | 1.42       | 1.96      | 2.44       | 2.90              | 3.39       | 3.93      | 4.57     | 5.40       | 6.70     | 7.91   |
| Ann   | 92.71 | 89.26       | 22.90               | Oct<br>1985 | 7      | 46.22                 | Oct<br>1985 | .69                  | Dec<br>1997 | 189.0      | 134.2      | 54.6       | 25.8       | 62.47 | 68.20      | 75.62     | 81.29      | 86.36             | 91.28      | 96.39     | 102.06   | 108.97     | 119.06   | 127.84 |

<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: 1969-2001

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

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**COOP ID: 662336** 

Station: CERRO MARAVILLA, PR

Climate Division: PR 6 NWS Call Sign: Elevation: 4,002 Feet Lat: 18°09N Lon: 66°34W

|       |                      | Snow Fall Median Median Mean Median Snow Fall Pall Snow Fall Monthly Snow Depth O O O O O O O O O O O O O O O O O O O  |         |       |               |      |     |                 |       |               |      |     |                         |      |     |     |       |      |      |        |               |                 |    |
|-------|----------------------|--|---------|-------|---------------|------|-----|-----------------|-------|---------------|------|-----|-------------------------|------|-----|-----|-------|------|------|--------|---------------|-----------------|----|
|       |                      | Snow   Snow   Snow   Snow   Depth   Median   M |         |       |               |      |     |                 |       |               |      |     |                         |      |     |     | Mea   | n Nu | mber | of Day | <b>ys</b> (1) |                 |    |
|       | Mean                 | s/Medi   | ans (1) | )     |               |      |     |                 | Extre | mes (2)       |      |     |                         |      |     |     | ow Fa |      |      |        |               | Depth<br>esholo |    |
| Month | Snow<br>Fall<br>Mean | Fall   | Depth   | Depth | Daily<br>Snow | Year | Day | Monthly<br>Snow | Year  | Daily<br>Snow | Year | Day | Monthly<br>Mean<br>Snow | Year | 0.1 | 1.0 | 3.0   | 5.0  | 10.0 | 1      | 3             | 5               | 10 |
| Jan   | .0                   | .0   | 0       | 0     | .0            | 0    | 0   | .0              | 0     | 0             | 0    | 0   | 0                       | 0    | .0  | .0  | .0    | .0   | .0   | .0     | .0            | .0              | .0 |
| Feb   | .0                   | .0   | 0       | 0     | .0            | 0    | 0   | .0              | 0     | 0             | 0    | 0   | 0                       | 0    | .0  | .0  | .0    | .0   | .0   | .0     | .0            | .0              | .0 |
| Mar   | .0                   | .0   | 0       | 0     | .0            | 0    | 0   | .0              | 0     | 0             | 0    | 0   | 0                       | 0    | .0  | .0  | .0    | .0   | .0   | .0     | .0            | .0              | .0 |
| Apr   | .0                   | .0   | 0       | 0     | .0            | 0    | 0   | .0              | 0     | 0             | 0    | 0   | 0                       | 0    | .0  | .0  | .0    | .0   | .0   | .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   | .0                   | .0   | 0       | 0     | .0            | 0    | 0   | .0              | 0     | 0             | 0    | 0   | 0                       | 0    | .0  | .0  | .0    | .0   | .0   | .0     | .0            | .0              | .0 |
| Nov   | .0                   | .0   | 0       | 0     | .0            | 0    | 0   | .0              | 0     | 0             | 0    | 0   | 0                       | 0    | .0  | .0  | .0    | .0   | .0   | .0     | .0            | .0              | .0 |
| Dec   | .0                   | .0   | 0       | 0     | .0            | 0    | 0   | .0              | 0     | 0             | 0    | 0   | 0                       | 0    | .0  | .0  | .0    | .0   | .0   | .0     | .0            | .0              | .0 |
| Ann   | .0                   | .0   | N/A     | N/A   | .0            | 0    | 0   | .0              | 0     | 0             | 0    | 0   | 0                       | 0    | .0  | .0  | .0    | .0   | .0   | .0     | .0            | .0              | .0 |

<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

## Climatography of the United States No. 20

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1971-2000 COOP ID: 662336

Station: CERRO MARAVILLA, PR

Climate Division: PR 6 NWS Call Sign: Elevation: 4,002 Feet Lat: 18°09N Lon: 66°34W

|   |      |      |                | Freez          | e Data         |               |              |      |      |  |  |  |  |  |
|---|------|------|----------------|----------------|----------------|---------------|--------------|------|------|--|--|--|--|--|
|   |      |      | Spri           | ng Freeze Da   | ates (Month/   | (Day)         |              |      |      |  |  |  |  |  |
| Probability of later date in spring (thru Jul 31) than indicated(*) |      |      |                |                |                |               |              |      |      |  |  |  |  |  |
| remp (r)  | .10  | .20  | .30            | .40            | .50            | .60           | .70          | .80  | .90  |  |  |  |  |  |
| 36  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
| 32  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
| 28  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
| 24  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
| 20  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
| 16  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
|   |      |      | Fal            | ll Freeze Dat  | tes (Month/D   | Oay)          |              |      |      |  |  |  |  |  |
| Tomp (F)  |      | Pro  | bability of ea | arlier date ir | n fall (beginn | ing Aug 1) t  | han indicate | d(*) |      |  |  |  |  |  |
| remp (r)  | .10  | .20  | .30            | .40            | .50            | .60           | .70          | .80  | .90  |  |  |  |  |  |
| 36  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
| 32  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
| 28  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
| 24  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
| 20  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
| 16  | 0/00 | 0/00 | 0/00           | 0/00           | 0/00           | 0/00          | 0/00         | 0/00 | 0/00 |  |  |  |  |  |
|   |      |      |                | Freeze F       | ree Period     | •             |              |      |      |  |  |  |  |  |
| Temp (F)  |      |      | Probability    | of longer tha  | an indicated   | freeze free p | eriod (Days) |      |      |  |  |  |  |  |
| remp (r)  | .10  | .20  | .30            | .40            | .50            | .60           | .70          | .80  | .90  |  |  |  |  |  |
| 36  | >365 | >365 | >365           | >365           | >365           | >365          | >365         | >365 | >365 |  |  |  |  |  |
| 32  | >365 | >365 | >365           | >365           | >365           | >365          | >365         | >365 | >365 |  |  |  |  |  |
| 28  | >365 | >365 | >365           | >365           | >365           | >365          | >365         | >365 | >365 |  |  |  |  |  |
| 24  | >365 | >365 | >365           | >365           | >365           | >365          | >365         | >365 | >365 |  |  |  |  |  |
| 20  | >365 | >365 | >365           | >365           | >365           | >365          | >365         | >365 | >365 |  |  |  |  |  |
| 16  | >365 | >365 | >365           | >365           | >365           | >365          | >365         | >365 | >365 |  |  |  |  |  |

<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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**COOP ID: 662336** 

Station: CERRO MARAVILLA, PR

Climate Division: PR 6 NWS Call Sign: Elevation: 4,002 Feet Lat: 18°09N Lon: 66°34W

|       |     |     |     | 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    | 106 | 100 | 94  | 74  | 47         | 14         | 13         | 18        | 14   | 20  | 40  | 84  | 624 |
| 60    | 22  | 20  | 25  | 11  | 3          | 0          | 0          | 0         | 0    | 0   | 3   | 16  | 100 |
| 57    | 5   | 4   | 7   | 2   | 0          | 0          | 0          | 0         | 0    | 0   | 0   | 4   | 22  |
| 55    | 0   | 0   | 2   | 0   | 0          | 0          | 0          | 0         | 0    | 0   | 0   | 0   | 2   |
| 50    | 0   | 0   | 0   | 0   | 0          | 0          | 0          | 0         | 0    | 0   | 0   | 0   | 0   |
| 32    | 0   | 0   | 0   | 0   | 0          | 0          | 0          | 0         | 0    | 0   | 0   | 0   | 0   |

| Base  |     |     |     |     |      | Coolin | g Degree l | Days (1) |      |      |     |     |       |
|-------|-----|-----|-----|-----|------|--------|------------|----------|------|------|-----|-----|-------|
| Above | Jan | Feb | Mar | Apr | May  | Jun    | Jul        | Aug      | Sep  | Oct  | Nov | Dec | Ann   |
| 32    | 931 | 833 | 936 | 942 | 1015 | 1040   | 1092       | 1092     | 1059 | 1078 | 998 | 969 | 11985 |
| 55    | 218 | 189 | 225 | 252 | 302  | 350    | 379        | 379      | 369  | 365  | 308 | 256 | 3592  |
| 57    | 161 | 137 | 168 | 194 | 240  | 290    | 317        | 317      | 309  | 303  | 248 | 198 | 2882  |
| 60    | 85  | 69  | 93  | 113 | 150  | 200    | 224        | 224      | 219  | 210  | 160 | 117 | 1864  |
| 65    | 14  | 9   | 20  | 26  | 39   | 64     | 82         | 87       | 83   | 75   | 47  | 30  | 576   |
| 70    | 0   | 0   | 0   | 1   | 2    | 4      | 9          | 14       | 11   | 9    | 4   | 3   | 57    |

|       |  |     |     |     |        |          |          |           |     | Gro | wing 1 | Degre | e Uni                                      | ts (2) |      |         |          |           |          |         |         |      |      |      |
|-------|--|-----|-----|-----|--------|----------|----------|-----------|-----|-----|--------|-------|--|--------|------|---------|----------|-----------|----------|---------|---------|------|------|------|
| Base  |  |     |     |     | Growin | g Degree | Units (M | (Ionthly) |     |     |        |       | 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    | 690  | 640 | 694 | 706 | 774    | 806      | 850      | 851       | 813 | 833 | 759    | 722   | 690  | 1330   | 2024 | 2730    | 3504     | 4310      | 5160     | 6011    | 6824    | 7657 | 8416 | 9138 |
| 45    | <b>15</b> 535 495 539 556 619 656 695 696 663 678 609        |     |     |     |        |          |          |           |     |     |        |       | 535  | 1030   | 1569 | 2125    | 2744     | 3400      | 4095     | 4791    | 5454    | 6132 | 6741 | 7308 |
| 50    |  |     |     |     |        |          |          |           |     |     |        |       | 380  | 730    | 1114 | 1520    | 1984     | 2490      | 3030     | 3571    | 4084    | 4607 | 5066 | 5478 |
| 55    | 225  | 206 | 229 | 256 | 309    | 356      | 385      | 386       | 363 | 368 | 309    | 257   | 225  | 431    | 660  | 916     | 1225     | 1581      | 1966     | 2352    | 2715    | 3083 | 3392 | 3649 |
| 60    | 79   | 66  | 88  | 110 | 155    | 206      | 230      | 231       | 213 | 213 | 160    | 111   | 79   | 145    | 233  | 343     | 498      | 704       | 934      | 1165    | 1378    | 1591 | 1751 | 1862 |
| Base  | Growing Degree Units for Corn (Monthly)                      |     |     |     |        |          |          |           |     |     |        |       |  |        | Gr   | owing D | egree Ur | its for C | orn (Acc | umulate | d Month | ly)  | •    |      |
| 50/86 | <b>50/86</b> 380 350 384 406 464 506 540 541 513 523 459 412 |     |     |     |        |          |          |           |     |     |        | 412   | 380  | 730    | 1114 | 1520    | 1984     | 2490      | 3030     | 3571    | 4084    | 4607 | 5066 | 5478 |

(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 were calculated from a serially complete daily data set. A serial dataset was not available for precipitation,

To ensure that a station's data was adequate to estimate these statistics, the following criteria were used:

- 1. A station must have 80% of its data for the 1971-2000 time period.
- 2. Only months with at least 21 days are used.
- 3. There must be a least 21 months (meeting criteria 2.) in the sample.
- g. Snowfall and snow depth statistics were derived daily values quality controlled to be consistent with 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 differences 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. Other inconsistencies may appear from comparing statistically modeled values such as degree days to observed temperatures.

- 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. 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, <a href="www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html">www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html</a> Snow Climatology Project Description, <a href="www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html">www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html</a>