

Summary of Monthly Normals  
1981-2010

Generated on 06/04/2024

Current Location: Elev: 1065 ft. Lat: 41.6686° N Lon: 94.4972° W

Station: GUTHRIE CENTER, IA US USC00133509

| Temperature (°F) |           |           |      |                       |                       |                       |                     |       |       |       |       |       |                     |       |       |      |                     |           |           |           |           |          |
|------------------|-----------|-----------|------|-----------------------|-----------------------|-----------------------|---------------------|-------|-------|-------|-------|-------|---------------------|-------|-------|------|---------------------|-----------|-----------|-----------|-----------|----------|
| Mean             |           |           |      |                       |                       |                       | Cooling Degree Days |       |       |       |       |       | Heating Degree Days |       |       |      | Mean Number of Days |           |           |           |           |          |
|                  |           |           |      |                       |                       |                       | Base (above)        |       |       |       |       |       | Base (above)        |       |       |      |                     |           |           |           |           |          |
| Month            | Daily Max | Daily Min | Mean | Long Term Max Std Dev | Long Term Min Std Dev | Long Term Avg Std Dev | 55                  | 57    | 60    | 65    | 70    | 72    | 55                  | 57    | 60    | 65   | Max >= 100          | Max >= 90 | Max >= 50 | Max <= 32 | Min <= 32 | Min <= 0 |
| 01               | 30.2      | 9.8       | 20.0 | 6.2                   | 6.4                   | 6.2                   | 0                   | 0     | 0     | 0     | 0     | 0     | 1085                | 1147  | 1240  | 1395 | 0.0                 | 0.0       | 2.0       | 16.3      | 30.3      | 7.8      |
| 02               | 35.0      | 14.5      | 24.8 | 6.8                   | 6.3                   | 6.4                   | -7777               | -7777 | -7777 | -7777 | 0     | 0     | 847                 | 903   | 987   | 1127 | 0.0                 | 0.0       | 3.7       | 11.7      | 26.2      | 4.9      |
| 03               | 47.4      | 25.6      | 36.5 | 4.9                   | 3.5                   | 3.8                   | 8                   | 6     | 3     | 1     | -7777 | -7777 | 582                 | 641   | 731   | 884  | 0.0                 | 0.0       | 12.4      | 3.8       | 22.9      | 0.4      |
| 04               | 61.2      | 36.8      | 49.0 | 4.4                   | 3.4                   | 3.6                   | 59                  | 44    | 27    | 10    | 2     | 1     | 239                 | 284   | 357   | 490  | 0.0                 | 0.2       | 23.8      | 0.1       | 9.7       | 0.0      |
| 05               | 72.0      | 48.0      | 60.0 | 3.7                   | 3.3                   | 3.1                   | 204                 | 162   | 109   | 46    | 14    | 7     | 49                  | 69    | 109   | 201  | 0.0                 | 0.6       | 30.7      | 0.0       | 1.0       | 0.0      |
| 06               | 81.4      | 58.0      | 69.7 | 2.9                   | 2.4                   | 2.3                   | 443                 | 385   | 300   | 173   | 78    | 52    | 2                   | 4     | 9     | 32   | 0.1                 | 3.3       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 85.0      | 62.7      | 73.8 | 2.6                   | 2.7                   | 2.3                   | 584                 | 522   | 430   | 280   | 148   | 105   | -7777               | -7777 | -7777 | 6    | 0.1                 | 6.9       | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 82.9      | 59.8      | 71.4 | 3.5                   | 3.2                   | 3.1                   | 507                 | 445   | 355   | 215   | 104   | 72    | -7777               | 1     | 3     | 18   | 0.3                 | 4.6       | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 76.1      | 49.8      | 62.9 | 3.3                   | 2.6                   | 2.6                   | 268                 | 222   | 160   | 80    | 32    | 19    | 29                  | 43    | 71    | 141  | 0.0                 | 1.5       | 29.9      | 0.0       | 0.9       | 0.0      |
| 10               | 63.4      | 37.6      | 50.5 | 3.4                   | 3.1                   | 2.6                   | 65                  | 47    | 28    | 10    | 3     | 2     | 204                 | 249   | 322   | 459  | 0.0                 | 0.1       | 27.1      | 0.1       | 9.8       | 0.0      |
| 11               | 47.3      | 26.0      | 36.7 | 6.0                   | 4.5                   | 4.9                   | 7                   | 4     | 2     | -7777 | 0     | 0     | 557                 | 615   | 702   | 851  | 0.0                 | 0.0       | 13.1      | 3.5       | 22.0      | 0.2      |
| 12               | 32.9      | 13.6      | 23.2 | 6.5                   | 6.5                   | 6.3                   | 0                   | 0     | 0     | 0     | 0     | 0     | 984                 | 1046  | 1139  | 1294 | 0.0                 | 0.0       | 2.6       | 14.1      | 29.7      | 4.8      |
| Summary          | 59.6      | 36.9      | 48.2 | 4.5                   | 4.0                   | 3.9                   | 2145                | 1837  | 1414  | 815   | 381   | 258   | 4578                | 5002  | 5670  | 6898 | 0.5                 | 17.2      | 237.3     | 49.6      | 152.5     | 18.1     |

-7777: a non-zero value that would round to zero

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| Precipitation (in.) |        |                     |         |         |         |                                                                                                                        |       |       |  |
|---------------------|--------|---------------------|---------|---------|---------|------------------------------------------------------------------------------------------------------------------------|-------|-------|--|
|                     | Totals | Mean Number of Days |         |         |         | Precipitation Probabilities<br>Probability that precipitation will be<br>equal to or less than<br>the indicated amount |       |       |  |
|                     | Means  | Daily Precipitation |         |         |         | Monthly Precipitation<br>vs. Probability Levels                                                                        |       |       |  |
| Month               | Mean   | >= 0.01             | >= 0.10 | >= 0.50 | >= 1.00 | 0.25                                                                                                                   | 0.50  | 0.75  |  |
| 01                  | 0.82   | 4.3                 | 2.6     | 0.4     | 0.1     | 0.46                                                                                                                   | 0.74  | 1.18  |  |
| 02                  | 1.08   | 3.8                 | 2.8     | 0.5     | 0.1     | 0.54                                                                                                                   | 1.08  | 1.36  |  |
| 03                  | 2.15   | 5.7                 | 4.5     | 1.7     | 0.4     | 0.78                                                                                                                   | 2.24  | 2.87  |  |
| 04                  | 3.76   | 9.4                 | 7.3     | 2.5     | 0.8     | 1.94                                                                                                                   | 2.97  | 5.20  |  |
| 05                  | 5.08   | 11.0                | 8.6     | 3.3     | 1.3     | 3.37                                                                                                                   | 4.70  | 6.54  |  |
| 06                  | 5.16   | 10.2                | 8.1     | 3.1     | 1.6     | 2.76                                                                                                                   | 4.81  | 6.71  |  |
| 07                  | 4.86   | 8.9                 | 7.2     | 3.4     | 1.5     | 3.43                                                                                                                   | 4.55  | 6.47  |  |
| 08                  | 4.38   | 8.6                 | 6.8     | 3.0     | 1.6     | 2.79                                                                                                                   | 4.08  | 5.31  |  |
| 09                  | 3.38   | 7.0                 | 5.0     | 2.1     | 0.9     | 2.14                                                                                                                   | 2.87  | 4.54  |  |
| 10                  | 2.62   | 7.0                 | 5.3     | 1.7     | 0.7     | 1.05                                                                                                                   | 2.38  | 3.78  |  |
| 11                  | 2.02   | 5.7                 | 4.0     | 1.2     | 0.4     | 1.04                                                                                                                   | 1.77  | 2.84  |  |
| 12                  | 1.47   | 4.8                 | 3.3     | 0.8     | 0.2     | 0.59                                                                                                                   | 1.28  | 1.99  |  |
| Summary             | 36.78  | 86.4                | 65.5    | 23.7    | 9.6     | 20.89                                                                                                                  | 33.47 | 48.79 |  |

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U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service

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Summary of Monthly Normals  
1981-2010  
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National Centers for Environmental Information  
151 Patton Avenue  
Asheville, North Carolina 28801

| Snow (in.) |                  |                        |     |     |       |       |                          |     |     |     |                                                                                                   |      |      |
|------------|------------------|------------------------|-----|-----|-------|-------|--------------------------|-----|-----|-----|---------------------------------------------------------------------------------------------------|------|------|
|            | Totals           | Mean Number of Days    |     |     |       |       |                          |     |     |     | Snow Probabilities<br>Probability that snow will be equal to<br>or less than the indicated amount |      |      |
|            | Means            | Snowfall >= Thresholds |     |     |       |       | Snow Depth >= Thresholds |     |     |     | Monthly Snow vs. Probability Levels<br>Values derived from the<br>incomplete gamma distribution.  |      |      |
| Month      | Snowfall<br>Mean | 0.01                   | 1.0 | 3.0 | 5.00  | 10.00 | 1                        | 3   | 5   | 10  | .25                                                                                               | .50  | .75  |
| 01         | 5.6              | 3.4                    | 2.3 | 1.0 | 0.4   | -7777 |                          |     |     |     | 0.3                                                                                               | 6.0  | 8.0  |
| 02         | 5.4              | 2.7                    | 2.4 | 1.2 | 0.5   | -7777 |                          |     |     |     | 2.0                                                                                               | 5.3  | 8.0  |
| 03         | 4.8              | 1.4                    | 1.1 | 0.6 | 0.4   | -7777 |                          |     |     |     | 0.0                                                                                               | 3.0  | 9.5  |
| 04         | 1.0              | 0.5                    | 0.4 | 0.2 | 0.1   | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 0.0  |
| 05         | 0.0              | 0.0                    | 0.0 | 0.0 | 0.0   | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 0.0  |
| 06         | 0.0              | 0.0                    | 0.0 | 0.0 | 0.0   | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 0.0  |
| 07         | 0.0              | 0.0                    | 0.0 | 0.0 | 0.0   | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 0.0  |
| 08         | 0.0              | 0.0                    | 0.0 | 0.0 | 0.0   | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 0.0  |
| 09         | 0.0              | 0.0                    | 0.0 | 0.0 | 0.0   | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 0.0  |
| 10         | 0.4              | 0.1                    | 0.1 | 0.1 | -7777 | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 0.0  |
| 11         | 1.6              | 1.1                    | 0.8 | 0.1 | 0.0   | 0.0   |                          |     |     |     | 0.0                                                                                               | 1.0  | 2.0  |
| 12         | 7.1              | 3.3                    | 2.8 | 0.8 | 0.4   | 0.1   |                          |     |     |     | 3.4                                                                                               | 6.5  | 10.0 |
| Summary    | 25.9             | 12.5                   | 9.9 | 4.0 | 1.8   | 0.1   | 0.0                      | 0.0 | 0.0 | 0.0 | 5.7                                                                                               | 21.8 | 37.5 |

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| Growing Degree Units (Monthly)          |       |       |     |     |     |     |      |     |     |     |     |       |
|-----------------------------------------|-------|-------|-----|-----|-----|-----|------|-----|-----|-----|-----|-------|
| Base                                    | Jan   | Feb   | Mar | Apr | May | Jun | Jul  | Aug | Sep | Oct | Nov | Dec   |
| Growing Degree Units (Monthly)          |       |       |     |     |     |     |      |     |     |     |     |       |
| Base                                    | Jan   | Feb   | Mar | Apr | May | Jun | Jul  | Aug | Sep | Oct | Nov | Dec   |
| 40                                      | 4     | 14    | 89  | 302 | 620 | 891 | 1049 | 972 | 689 | 345 | 87  | 6     |
| 45                                      | 1     | 5     | 47  | 195 | 469 | 741 | 894  | 817 | 541 | 225 | 44  | 1     |
| 50                                      | -7777 | 1     | 21  | 113 | 327 | 591 | 739  | 662 | 398 | 130 | 19  | -7777 |
| 55                                      | 0     | -7777 | 8   | 59  | 204 | 443 | 584  | 507 | 268 | 65  | 7   | 0     |
| 60                                      | 0     | -7777 | 3   | 27  | 109 | 300 | 430  | 355 | 160 | 28  | 2   | 0     |
| Growing Degree Units for Corn (Monthly) |       |       |     |     |     |     |      |     |     |     |     |       |
| 50/86                                   | 6     | 14    | 68  | 195 | 379 | 582 | 709  | 645 | 442 | 229 | 64  | 6     |

| Growing Degree Units (Accumulated Monthly)          |   |    |     |     |      |      |      |      |      |      |      |      |
|-----------------------------------------------------|---|----|-----|-----|------|------|------|------|------|------|------|------|
| 40                                                  | 4 | 18 | 107 | 409 | 1029 | 1920 | 2969 | 3941 | 4630 | 4975 | 5062 | 5068 |
| 45                                                  | 1 | 6  | 53  | 248 | 717  | 1458 | 2352 | 3169 | 3710 | 3935 | 3979 | 3980 |
| 50                                                  | 0 | 1  | 22  | 135 | 462  | 1053 | 1792 | 2454 | 2852 | 2982 | 3001 | 3001 |
| 55                                                  | 0 | 0  | 8   | 67  | 271  | 714  | 1298 | 1805 | 2073 | 2138 | 2145 | 2145 |
| 60                                                  | 0 | 0  | 3   | 30  | 139  | 439  | 869  | 1224 | 1384 | 1412 | 1414 | 1414 |
| Growing Degree Units for Corn (Monthly Accumulated) |   |    |     |     |      |      |      |      |      |      |      |      |
| 50/86                                               | 6 | 20 | 88  | 283 | 662  | 1244 | 1953 | 2598 | 3040 | 3269 | 3333 | 3339 |

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.

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