

Summary of Monthly Normals  
1991-2020

Current Location: Elev: 860 ft. Lat: 43.3042° N Lon: 91.7953° W  
Station: DECORAH, IA US USC00132110

Generated on 04/17/2024

| 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               | 27.7      | 10.4      | 19.0 | 4.9                   | 6.2                   | 5.4                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 1114.1              | 1176.1 | 1269.1 | 1424.2 | 0.0                 | 0.0       | 0.7       | 20.7      | 30.4      | 9.0      |
| 02               | 32.8      | 14.0      | 23.4 | 6.2                   | 7.5                   | 6.7                   | 0.1                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 884.7               | 940.7  | 1024.6 | 1164.7 | 0.0                 | 0.0       | 1.6       | 14.0      | 26.5      | 5.8      |
| 03               | 46.2      | 25.9      | 36.0 | 5.7                   | 4.9                   | 5.2                   | 9.7                 | 6.9   | 3.9   | 1.0   | 0.1   | 0.0  | 597.2               | 656.4  | 746.4  | 898.5  | 0.0                 | 0.0       | 10.0      | 4.3       | 23.6      | 1.3      |
| 04               | 61.3      | 37.3      | 49.3 | 4.1                   | 3.3                   | 3.5                   | 51.6                | 37.2  | 21.3  | 6.8   | 1.5   | 0.7  | 222.7               | 268.3  | 342.4  | 477.9  | 0.0                 | 0.0       | 24.2      | 0.1       | 11.2      | 0.0      |
| 05               | 72.5      | 48.4      | 60.5 | 3.2                   | 3.1                   | 2.9                   | 210.1               | 168.1 | 114.3 | 52.3  | 17.9  | 10.5 | 41.2                | 61.2   | 100.4  | 193.4  | 0.0                 | 0.9       | 30.6      | 0.0       | 1.8       | 0.0      |
| 06               | 81.4      | 58.6      | 70.0 | 2.3                   | 2.3                   | 2.1                   | 450.7               | 392.2 | 307.3 | 177.5 | 78.6  | 51.7 | 0.9                 | 2.3    | 7.4    | 27.6   | 0.0                 | 2.9       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 84.4      | 62.6      | 73.5 | 3.1                   | 2.6                   | 2.8                   | 573.4               | 511.4 | 418.7 | 267.9 | 136.6 | 95.3 | 0.0                 | 0.0    | 0.2    | 4.4    | 0.2                 | 4.5       | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 82.7      | 60.7      | 71.7 | 2.5                   | 2.8                   | 2.4                   | 517.6               | 455.8 | 363.8 | 218.3 | 100.1 | 66.5 | 0.0                 | 0.2    | 1.2    | 10.7   | 0.0                 | 2.6       | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 76.4      | 52.3      | 64.4 | 3.2                   | 3.0                   | 2.8                   | 298.2               | 248.4 | 180.7 | 91.9  | 36.3  | 22.7 | 17.8                | 28.0   | 50.3   | 111.4  | 0.0                 | 1.2       | 30.0      | 0.0       | 0.7       | 0.0      |
| 10               | 63.2      | 40.4      | 51.8 | 3.7                   | 2.8                   | 2.8                   | 78.0                | 57.6  | 33.9  | 11.8  | 2.9   | 1.6  | 177.3               | 218.8  | 288.2  | 421.0  | 0.0                 | 0.1       | 26.8      | 0.1       | 8.8       | 0.0      |
| 11               | 46.6      | 28.4      | 37.5 | 6.4                   | 4.3                   | 5.2                   | 7.0                 | 4.5   | 2.2   | 0.4   | 0.0   | 0.0  | 532.0               | 589.5  | 677.1  | 825.4  | 0.0                 | 0.0       | 10.7      | 3.8       | 21.1      | 0.3      |
| 12               | 32.9      | 17.4      | 25.2 | 5.8                   | 6.0                   | 5.7                   | 0.2                 | 0.1   | 0.0   | 0.0   | 0.0   | 0.0  | 925.4               | 987.3  | 1080.2 | 1235.2 | 0.0                 | 0.0       | 1.5       | 15.2      | 29.0      | 4.1      |
| Summary          | 59.0      | 38.0      | 48.5 | 4.3                   | 4.1                   | 4.0                   | 2197                | 1882  | 1446  | 828   | 374   | 249  | 4513                | 4929   | 5588   | 6794   | 0.2                 | 12.2      | 228.1     | 58.2      | 153.1     | 20.5     |

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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                  | 1.01   | 7.5                 | 3.5     | 0.4     | 0.0     | 0.74                                                                                                                   | 0.87  | 1.11  |  |
| 02                  | 1.10   | 6.2                 | 3.4     | 0.4     | 0.1     | 0.74                                                                                                                   | 1.07  | 1.34  |  |
| 03                  | 2.05   | 8.0                 | 5.2     | 0.9     | 0.3     | 1.30                                                                                                                   | 2.08  | 2.65  |  |
| 04                  | 3.95   | 12.0                | 7.8     | 2.8     | 1.0     | 2.46                                                                                                                   | 3.50  | 4.99  |  |
| 05                  | 4.94   | 13.4                | 8.8     | 3.2     | 0.9     | 3.27                                                                                                                   | 4.42  | 5.32  |  |
| 06                  | 6.13   | 12.2                | 9.0     | 4.3     | 1.7     | 3.83                                                                                                                   | 5.03  | 8.28  |  |
| 07                  | 4.42   | 9.9                 | 6.7     | 2.7     | 1.3     | 2.18                                                                                                                   | 4.06  | 5.91  |  |
| 08                  | 4.39   | 10.0                | 6.7     | 3.0     | 1.1     | 2.37                                                                                                                   | 3.64  | 5.16  |  |
| 09                  | 3.60   | 9.3                 | 5.9     | 2.2     | 0.9     | 1.88                                                                                                                   | 2.60  | 5.08  |  |
| 10                  | 2.66   | 9.4                 | 5.5     | 1.8     | 0.5     | 1.52                                                                                                                   | 2.45  | 3.89  |  |
| 11                  | 2.05   | 7.6                 | 4.5     | 1.3     | 0.4     | 1.21                                                                                                                   | 2.00  | 2.37  |  |
| 12                  | 1.31   | 8.4                 | 3.5     | 0.6     | 0.2     | 0.54                                                                                                                   | 0.97  | 1.77  |  |
| Summary             | 37.61  | 113.9               | 70.5    | 23.6    | 8.4     | 22.04                                                                                                                  | 32.69 | 47.87 |  |

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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  
1991-2020  
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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         | 10.30            | 6.2                    | 3.6  | 1.4 | 0.4  | 0.0   | 23.6                     | 19.1 | 14.8 | 5.4  | 5.50                                                                                              | 8.90 | 12.40 |
| 02         | 8.30             | 5.2                    | 3.2  | 1.1 | 0.6  | 0.1   | 22.3                     | 17.4 | 13.1 | 5.0  | 4.50                                                                                              | 6.80 | 9.90  |
| 03         | 5.70             | 2.8                    | 1.9  | 0.7 | 0.3  | 0.0   | 11.1                     | 7.4  | 4.7  | 1.2  | 2.50                                                                                              | 5.70 | 8.30  |
| 04         | 1.70             | 1.0                    | 0.7  | 0.1 | 0.1  | 0.0   | 0.6                      | 0.2  | 0.1  | 0.0  | 0.00                                                                                              | 0.00 | 2.00  |
| 05         | 0.00             | 0.0                    | 0.0  | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.00                                                                                              | 0.00 | 0.00  |
| 06         | 0.00             | 0.0                    | 0.0  | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.00                                                                                              | 0.00 | 0.00  |
| 07         | 0.00             | 0.0                    | 0.0  | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.00                                                                                              | 0.00 | 0.00  |
| 08         | 0.00             | 0.0                    | 0.0  | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.00                                                                                              | 0.00 | 0.00  |
| 09         | 0.00             | 0.0                    | 0.0  | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.00                                                                                              | 0.00 | 0.00  |
| 10         | 0.00             | 0.0                    | 0.0  | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.00                                                                                              | 0.00 | 0.00  |
| 11         | 2.40             | 1.9                    | 1.1  | 0.3 | 0.1  | 0.0   | 2.3                      | 1.0  | 0.7  | 0.0  | 0.00                                                                                              | 1.10 | 3.10  |
| 12         | 9.10             | 6.2                    | 3.5  | 1.1 | 0.3  | 0.0   | 14.4                     | 9.9  | 7.8  | 1.6  | 3.00                                                                                              | 7.20 | 11.30 |
| Summary    | 37.5             | 23.3                   | 14.0 | 4.7 | 1.8  | 0.1   | 74.3                     | 55.0 | 41.2 | 13.2 | 15.5                                                                                              | 29.7 | 47.0  |

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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                                      | 0.9 | 8.1 | 85.1 | 305.2 | 634.0 | 899.7 | 1038.3 | 982.4 | 730.3 | 379.7 | 93.2 | 8.4 |
| 45                                      | 0.0 | 2.0 | 43.7 | 192.3 | 480.7 | 749.8 | 883.3  | 827.5 | 581.1 | 252.1 | 46.4 | 2.6 |
| 50                                      | 0.0 | 0.3 | 20.9 | 106.3 | 335.5 | 599.8 | 728.3  | 672.5 | 435.0 | 150.5 | 19.8 | 0.8 |
| 55                                      | 0.0 | 0.1 | 9.7  | 51.6  | 210.1 | 450.7 | 573.4  | 517.6 | 298.2 | 78.0  | 7.0  | 0.2 |
| 60                                      | 0.0 | 0.0 | 3.9  | 21.3  | 114.3 | 307.3 | 418.7  | 363.8 | 180.7 | 33.9  | 2.2  | 0.0 |
| Growing Degree Units for Corn (Monthly) |     |     |      |       |       |       |        |       |       |       |      |     |
| 50/86                                   | 1.4 | 4.7 | 56.7 | 193.5 | 392.8 | 592.9 | 705.9  | 661.1 | 466.9 | 231.0 | 55.7 | 4.1 |

| Growing Degree Units (Accumulated Monthly)          |   |   |    |     |      |      |      |      |      |      |      |      |
|-----------------------------------------------------|---|---|----|-----|------|------|------|------|------|------|------|------|
| 40                                                  | 1 | 9 | 94 | 399 | 1033 | 1933 | 2971 | 3954 | 4684 | 5064 | 5157 | 5165 |
| 45                                                  | 0 | 2 | 46 | 238 | 719  | 1468 | 2352 | 3179 | 3760 | 4012 | 4059 | 4062 |
| 50                                                  | 0 | 0 | 21 | 128 | 463  | 1063 | 1791 | 2464 | 2899 | 3049 | 3069 | 3070 |
| 55                                                  | 0 | 0 | 10 | 61  | 272  | 722  | 1296 | 1813 | 2111 | 2189 | 2196 | 2197 |
| 60                                                  | 0 | 0 | 4  | 25  | 140  | 447  | 866  | 1229 | 1410 | 1444 | 1446 | 1446 |
| Growing Degree Units for Corn (Monthly Accumulated) |   |   |    |     |      |      |      |      |      |      |      |      |
| 50/86                                               | 1 | 6 | 63 | 256 | 649  | 1242 | 1948 | 2609 | 3076 | 3307 | 3363 | 3367 |

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.  
Empty or blank cells indicate data is missing or insufficient occurrences to compute value.