

Summary of Monthly Normals  
1991-2020  
Generated on 05/08/2021

| 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               | 31.9      | 16.2      | 24.0 | 4.3                   | 5.4                   | 4.7                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 959.2               | 1021.2 | 1114.2 | 1269.3 | 0.0                 | 0.0       | 2.3       | 16.6      | 28.0      | 2.3      |
| 02               | 35.4      | 17.7      | 26.5 | 5.0                   | 5.2                   | 5.0                   | 0.1                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 796.5               | 852.5  | 936.4  | 1076.5 | 0.0                 | 0.0       | 2.8       | 11.8      | 25.3      | 1.4      |
| 03               | 46.2      | 25.2      | 35.7 | 4.9                   | 4.2                   | 4.4                   | 6.5                 | 4.5   | 2.3   | 0.5   | 0.0   | 0.0  | 604.8               | 664.7  | 755.6  | 908.7  | 0.0                 | 0.0       | 10.9      | 3.7       | 22.1      | 0.2      |
| 04               | 59.7      | 35.5      | 47.6 | 3.3                   | 2.4                   | 2.8                   | 36.9                | 26.0  | 14.0  | 3.7   | 0.5   | 0.1  | 258.9               | 308.0  | 386.0  | 525.7  | 0.0                 | 0.0       | 24.7      | 0.2       | 8.8       | 0.0      |
| 05               | 71.4      | 46.6      | 59.0 | 3.7                   | 3.2                   | 3.4                   | 179.1               | 141.0 | 93.3  | 40.3  | 11.7  | 5.7  | 55.2                | 79.1   | 124.4  | 226.3  | 0.0                 | 0.3       | 30.7      | 0.0       | 0.5       | 0.0      |
| 06               | 80.1      | 55.9      | 68.0 | 2.4                   | 1.9                   | 1.9                   | 392.1               | 334.6 | 251.9 | 133.7 | 53.0  | 32.3 | 2.2                 | 4.7    | 12.1   | 43.7   | 0.0                 | 2.8       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 83.7      | 60.1      | 71.9 | 3.3                   | 2.4                   | 2.8                   | 523.8               | 461.7 | 369.2 | 221.6 | 102.1 | 66.6 | 0.0                 | 0.0    | 0.4    | 7.8    | 0.1                 | 5.8       | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 81.7      | 58.8      | 70.3 | 2.5                   | 2.4                   | 2.3                   | 472.7               | 410.9 | 319.5 | 178.0 | 70.8  | 42.9 | 0.1                 | 0.3    | 1.8    | 15.3   | 0.0                 | 2.3       | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 75.1      | 51.6      | 63.3 | 3.4                   | 2.4                   | 2.7                   | 268.5               | 219.0 | 152.9 | 68.8  | 21.0  | 11.0 | 18.2                | 28.7   | 52.5   | 118.3  | 0.0                 | 1.1       | 30.0      | 0.0       | 0.1       | 0.0      |
| 10               | 62.2      | 40.7      | 51.4 | 2.6                   | 2.3                   | 2.4                   | 65.7                | 46.2  | 24.8  | 6.6   | 1.4   | 0.6  | 175.8               | 218.3  | 289.8  | 426.6  | 0.0                 | 0.0       | 27.6      | 0.0       | 3.7       | 0.0      |
| 11               | 48.0      | 30.5      | 39.2 | 5.1                   | 3.3                   | 4.0                   | 4.5                 | 2.0   | 0.5   | 0.0   | 0.0   | 0.0  | 477.0               | 534.4  | 623.0  | 772.5  | 0.0                 | 0.0       | 13.1      | 1.8       | 15.7      | 0.0      |
| 12               | 36.3      | 22.1      | 29.2 | 4.5                   | 4.4                   | 4.4                   | 0.2                 | 0.1   | 0.0   | 0.0   | 0.0   | 0.0  | 799.9               | 861.7  | 954.6  | 1109.7 | 0.0                 | 0.0       | 2.8       | 10.7      | 25.9      | 0.4      |
| Summary          | 59.3      | 38.4      | 48.8 | 3.8                   | 3.3                   | 3.4                   | 1950                | 1646  | 1228  | 653   | 260   | 159  | 4148                | 4574   | 5251   | 6500   | 0.1                 | 12.3      | 236.9     | 44.8      | 130.1     | 4.3      |

Empty or blank cells indicate data is missing or insufficient occurrences to compute value

U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service  
Current Location: Elev: 813 ft. Lat: 42.2981° N Lon: -83.6639° W  
Station: ANN ARBOR U OF MICH, MI US USC00200230

Summary of Monthly Normals  
1991-2020  
Generated on 05/08/2021

National Centers for Environmental Information  
151 Patton Avenue  
Asheville, North Carolina 28801

| 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                  | 2.96   | 18.3                | 7.7     | 1.6     | 0.3     | 1.97                                                                                                                   | 3.03  | 3.96  |
| 02                  | 2.51   | 14.4                | 6.3     | 1.4     | 0.2     | 1.76                                                                                                                   | 2.16  | 3.15  |
| 03                  | 2.82   | 14.3                | 6.4     | 1.6     | 0.4     | 1.94                                                                                                                   | 2.75  | 3.61  |
| 04                  | 3.44   | 14.4                | 8.0     | 2.1     | 0.5     | 2.65                                                                                                                   | 3.43  | 4.19  |
| 05                  | 3.84   | 14.7                | 7.9     | 2.7     | 0.8     | 2.73                                                                                                                   | 3.35  | 5.10  |
| 06                  | 3.91   | 12.4                | 7.2     | 2.6     | 0.9     | 2.73                                                                                                                   | 3.55  | 5.13  |
| 07                  | 3.52   | 11.7                | 6.9     | 2.4     | 0.6     | 2.40                                                                                                                   | 3.38  | 4.67  |
| 08                  | 3.52   | 11.2                | 6.4     | 2.4     | 0.9     | 2.82                                                                                                                   | 3.56  | 3.89  |
| 09                  | 3.18   | 10.6                | 6.1     | 2.3     | 0.7     | 1.88                                                                                                                   | 2.78  | 4.58  |
| 10                  | 2.99   | 13.3                | 6.8     | 1.8     | 0.6     | 2.20                                                                                                                   | 2.79  | 3.53  |
| 11                  | 2.82   | 13.5                | 6.8     | 1.8     | 0.3     | 2.12                                                                                                                   | 2.63  | 3.62  |
| 12                  | 2.75   | 16.9                | 7.0     | 1.6     | 0.2     | 2.16                                                                                                                   | 2.64  | 3.15  |
| Summary             | 38.26  | 165.7               | 83.5    | 24.3    | 6.4     | 27.36                                                                                                                  | 36.05 | 48.58 |

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1991-2020  
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National Centers for Environmental Information  
151 Patton Avenue  
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| 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         | 18.3             | 15.2                   | 5.8  | 1.5 | 0.5  | 0.1   | 20.9                     | 14.3 | 9.8  | 2.5 | 12.5                                                                                              | 15.7 | 23.3 |
| 02         | 15.3             | 12.1                   | 4.7  | 1.6 | 0.7  | 0.0   | 17.0                     | 12.8 | 8.4  | 2.8 | 9.5                                                                                               | 13.6 | 20.6 |
| 03         | 8.3              | 7.5                    | 2.5  | 0.6 | 0.3  | 0.0   | 7.2                      | 4.4  | 2.4  | 0.7 | 3.5                                                                                               | 7.8  | 12.2 |
| 04         | 2.6              | 2.8                    | 0.6  | 0.2 | 0.1  | 0.0   | 0.5                      | 0.3  | 0.1  | 0.0 | 0.5                                                                                               | 1.2  | 4.1  |
| 05         | 0.0              | 0.1                    | 0.0  | 0.0 | 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  | 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  | 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  | 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  | 0.0 | 0.0                                                                                               | 0.0  | 0.0  |
| 10         | 0.1              | 0.4                    | 0.0  | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0  | 0.0  | 0.0 | 0.0                                                                                               | 0.0  | 0.2  |
| 11         | 4.1              | 4.9                    | 1.4  | 0.2 | 0.1  | 0.0   | 1.7                      | 0.7  | 0.3  | 0.0 | 1.4                                                                                               | 3.0  | 6.6  |
| 12         | 12.7             | 11.5                   | 3.9  | 0.9 | 0.5  | 0.0   | 11.7                     | 5.9  | 3.7  | 0.8 | 7.3                                                                                               | 11.3 | 15.8 |
| Summary    | 61.4             | 54.5                   | 18.9 | 5.0 | 2.2  | 0.1   | 59.0                     | 38.4 | 24.7 | 6.8 | 34.7                                                                                              | 52.6 | 82.8 |

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| Growing Degree Units (Monthly)          |     |      |      |       |       |       |       |       |       |       |       |      |
|-----------------------------------------|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Base                                    | Jan | Feb  | Mar  | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  |
| 40                                      | 6.5 | 10.6 | 75.7 | 261.6 | 589.3 | 839.9 | 988.8 | 937.6 | 700.4 | 363.9 | 103.2 | 16.2 |
| 45                                      | 1.9 | 3.4  | 37.8 | 155.7 | 437.2 | 689.9 | 833.8 | 782.7 | 551.0 | 234.9 | 48.6  | 5.5  |
| 50                                      | 0.5 | 0.6  | 17.0 | 81.0  | 296.6 | 540.1 | 678.8 | 627.6 | 404.7 | 133.9 | 18.5  | 1.6  |
| 55                                      | 0.0 | 0.1  | 6.5  | 36.9  | 179.1 | 392.1 | 523.8 | 472.7 | 268.5 | 65.7  | 4.5   | 0.2  |
| 60                                      | 0.0 | 0.0  | 2.3  | 14.0  | 93.3  | 251.9 | 369.2 | 319.5 | 152.9 | 24.8  | 0.5   | 0.0  |
| Growing Degree Units for Corn (Monthly) |     |      |      |       |       |       |       |       |       |       |       |      |
| 50/86                                   | 3.1 | 7.2  | 52.5 | 169.7 | 363.4 | 542.8 | 659.8 | 621.0 | 435.2 | 208.4 | 54.6  | 7.1  |

| Growing Degree Units (Accumulated Monthly)          |     |     |     |     |     |      |      |      |      |      |      |      |
|-----------------------------------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Base                                                | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
| 40                                                  | 6   | 17  | 93  | 354 | 944 | 1784 | 2772 | 3710 | 4410 | 4774 | 4877 | 4894 |
| 45                                                  | 2   | 5   | 43  | 199 | 636 | 1326 | 2160 | 2942 | 3493 | 3728 | 3777 | 3782 |
| 50                                                  | 0   | 1   | 18  | 99  | 396 | 936  | 1615 | 2242 | 2647 | 2781 | 2799 | 2801 |
| 55                                                  | 0   | 0   | 7   | 44  | 223 | 615  | 1138 | 1611 | 1880 | 1945 | 1950 | 1950 |
| 60                                                  | 0   | 0   | 2   | 16  | 110 | 362  | 731  | 1050 | 1203 | 1228 | 1228 | 1228 |
| Growing Degree Units for Corn (Monthly Accumulated) |     |     |     |     |     |      |      |      |      |      |      |      |
| 50/86                                               | 3   | 10  | 63  | 232 | 596 | 1139 | 1798 | 2420 | 2855 | 3063 | 3118 | 3125 |

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