

Summary of Monthly Normals  
1991-2020

Generated on 05/11/2024

Current Location: Elev: 837 ft. Lat: 40.0825° N Lon: 93.6086° W  
Station: TRENTON, MO US USC00238444

| 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               | 34.8      | 16.3      | 25.5 | 4.7                   | 4.2                   | 4.2                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 912.7               | 974.7 | 1067.7 | 1222.8 | 0.0                 | 0.0       | 4.9       | 12.5      | 29.2      | 3.3      |
| 02               | 40.3      | 19.8      | 30.0 | 6.4                   | 6.0                   | 6.1                   | 1.4                 | 0.4   | 0.1   | 0.0   | 0.0   | 0.0   | 699.9               | 754.9 | 838.6  | 978.6  | 0.0                 | 0.0       | 6.9       | 8.4       | 24.6      | 2.0      |
| 03               | 52.5      | 29.9      | 41.2 | 5.6                   | 4.7                   | 4.9                   | 21.9                | 15.3  | 8.2   | 2.0   | 0.1   | 0.0   | 449.8               | 505.2 | 591.2  | 739.9  | 0.0                 | 0.0       | 17.2      | 2.1       | 19.0      | 0.3      |
| 04               | 63.9      | 40.6      | 52.3 | 4.0                   | 3.2                   | 3.4                   | 84.0                | 62.5  | 37.1  | 10.8  | 1.6   | 0.6   | 166.5               | 205.0 | 269.5  | 393.3  | 0.0                 | 0.1       | 26.8      | 0.1       | 6.1       | 0.0      |
| 05               | 74.6      | 52.7      | 63.6 | 3.5                   | 2.9                   | 3.1                   | 291.8               | 242.7 | 176.4 | 89.8  | 34.7  | 21.4  | 23.7                | 36.6  | 63.3   | 131.7  | 0.0                 | 1.8       | 30.8      | 0.0       | 0.3       | 0.0      |
| 06               | 84.5      | 62.7      | 73.6 | 2.8                   | 2.4                   | 2.5                   | 558.1               | 498.6 | 410.2 | 268.8 | 145.5 | 105.7 | 0.2                 | 0.7   | 2.4    | 11.0   | 0.3                 | 8.9       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 88.9      | 66.8      | 77.8 | 3.2                   | 2.5                   | 2.7                   | 708.3               | 646.3 | 553.2 | 399.2 | 251.8 | 197.1 | 0.0                 | 0.0   | 0.0    | 1.0    | 2.2                 | 14.5      | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 86.9      | 64.1      | 75.5 | 3.2                   | 2.8                   | 2.8                   | 635.4               | 573.5 | 480.8 | 328.6 | 189.2 | 141.3 | 0.0                 | 0.1   | 0.4    | 3.2    | 1.3                 | 10.6      | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 79.4      | 54.8      | 67.1 | 3.3                   | 3.4                   | 3.2                   | 372.7               | 319.0 | 243.7 | 136.1 | 62.0  | 41.7  | 9.8                 | 16.1  | 30.8   | 73.2   | 0.2                 | 5.1       | 30.0      | 0.0       | 0.0       | 0.0      |
| 10               | 66.7      | 42.6      | 54.7 | 3.6                   | 2.9                   | 2.9                   | 119.4               | 91.4  | 57.9  | 22.2  | 6.5   | 3.6   | 130.3               | 164.3 | 223.7  | 343.1  | 0.0                 | 0.2       | 28.6      | 0.0       | 4.7       | 0.0      |
| 11               | 51.7      | 31.0      | 41.3 | 5.7                   | 4.1                   | 4.7                   | 13.4                | 8.4   | 3.4   | 0.6   | 0.0   | 0.0   | 422.9               | 477.9 | 562.8  | 710.1  | 0.0                 | 0.0       | 18.5      | 1.4       | 16.1      | 0.0      |
| 12               | 39.5      | 21.4      | 30.4 | 4.7                   | 4.6                   | 4.5                   | 0.6                 | 0.4   | 0.1   | 0.0   | 0.0   | 0.0   | 761.5               | 823.3 | 916.0  | 1070.9 | 0.0                 | 0.0       | 7.2       | 9.4       | 27.0      | 1.6      |
| Summary          | 63.6      | 41.9      | 52.8 | 4.2                   | 3.6                   | 3.8                   | 2807                | 2459  | 1971  | 1258  | 691   | 511   | 3577                | 3959  | 4566   | 5679   | 4.0                 | 41.2      | 262.9     | 33.9      | 127.0     | 7.2      |

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

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**Summary of Monthly Normals**  
**1991-2020**  
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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                  | 1.13   | 5.6                 | 3.1     | 0.8     | 0.2     | 0.60                                                                                                                   | 0.99  | 1.54  |  |
| 02                  | 1.70   | 7.1                 | 4.3     | 1.2     | 0.3     | 0.82                                                                                                                   | 1.67  | 2.25  |  |
| 03                  | 2.60   | 8.9                 | 5.4     | 1.6     | 0.5     | 1.34                                                                                                                   | 2.20  | 3.32  |  |
| 04                  | 3.90   | 10.6                | 7.1     | 2.5     | 0.9     | 2.65                                                                                                                   | 4.05  | 5.20  |  |
| 05                  | 6.02   | 12.3                | 8.2     | 4.2     | 2.1     | 3.56                                                                                                                   | 5.53  | 7.71  |  |
| 06                  | 4.76   | 10.1                | 6.8     | 3.5     | 1.8     | 3.30                                                                                                                   | 4.21  | 6.39  |  |
| 07                  | 4.77   | 8.2                 | 5.8     | 2.3     | 1.2     | 2.73                                                                                                                   | 3.71  | 6.25  |  |
| 08                  | 4.27   | 9.0                 | 6.2     | 3.0     | 1.7     | 2.10                                                                                                                   | 3.59  | 5.91  |  |
| 09                  | 3.88   | 7.2                 | 5.0     | 2.7     | 1.2     | 1.86                                                                                                                   | 3.33  | 4.88  |  |
| 10                  | 3.08   | 8.3                 | 5.1     | 2.0     | 0.7     | 1.61                                                                                                                   | 2.74  | 4.09  |  |
| 11                  | 2.22   | 6.1                 | 3.7     | 1.2     | 0.7     | 1.22                                                                                                                   | 1.84  | 2.93  |  |
| 12                  | 1.74   | 6.4                 | 3.7     | 1.3     | 0.3     | 0.91                                                                                                                   | 1.28  | 2.31  |  |
| Summary             | 40.07  | 99.8                | 64.4    | 26.3    | 11.6    | 22.70                                                                                                                  | 35.14 | 52.78 |  |

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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         | 4.70             | 2.7                    | 1.8 | 0.5 | 0.1  | 0.0   |                          |     |     |     | 1.30                                                                                              | 3.60 | 4.90 |
| 02         | 4.70             | 2.7                    | 1.5 | 0.8 | 0.4  | 0.0   |                          |     |     |     | 0.90                                                                                              | 1.70 | 8.10 |
| 03         | 2.90             | 1.1                    | 1.0 | 0.3 | 0.2  | 0.0   |                          |     |     |     | 0.00                                                                                              | 1.00 | 2.80 |
| 04         | 0.30             | 0.2                    | 0.1 | 0.0 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00 |
| 05         | 0.00             | 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   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00 |
| 07         | 0.00             | 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   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00 |
| 09         | 0.00             | 0.0                    | 0.0 | 0.0 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00 |
| 10         | 0.20             | 0.2                    | 0.1 | 0.0 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00 |
| 11         | 0.90             | 0.7                    | 0.4 | 0.1 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 1.00 |
| 12         | 3.50             | 3.1                    | 2.3 | 0.9 | 0.1  | 0.0   |                          |     |     |     | 0.80                                                                                              | 3.10 | 4.10 |
| Summary    | 17.2             | 10.7                   | 7.2 | 2.6 | 0.8  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 3.0                                                                                               | 9.4  | 20.9 |

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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                                                  | 11.8 | 34.9 | 155.9 | 385.7 | 733.4 | 1007.8 | 1173.1 | 1100.3 | 812.9 | 462.3 | 147.9 | 30.1 |
| 45                                                  | 3.0  | 15.4 | 89.4  | 262.5 | 579.2 | 857.7  | 1018.0 | 945.2  | 663.0 | 325.7 | 78.1  | 10.1 |
| 50                                                  | 0.4  | 6.0  | 47.0  | 158.3 | 429.4 | 707.8  | 863.1  | 790.3  | 514.9 | 209.1 | 35.6  | 2.6  |
| 55                                                  | 0.0  | 1.4  | 21.9  | 84.0  | 291.8 | 558.1  | 708.3  | 635.4  | 372.7 | 119.4 | 13.4  | 0.6  |
| 60                                                  | 0.0  | 0.1  | 8.2   | 37.1  | 176.4 | 410.2  | 553.2  | 480.8  | 243.7 | 57.9  | 3.4   | 0.1  |
| Growing Degree Units for Corn (Monthly)             |      |      |       |       |       |        |        |        |       |       |       |      |
| 50/86                                               | 11.3 | 27.8 | 109.5 | 233.4 | 451.6 | 673.7  | 794.5  | 739.0  | 520.3 | 284.5 | 91.0  | 20.8 |
| Growing Degree Units (Accumulated Monthly)          |      |      |       |       |       |        |        |        |       |       |       |      |
| 40                                                  | 12   | 47   | 203   | 588   | 1322  | 2330   | 3503   | 4603   | 5416  | 5878  | 6026  | 6056 |
| 45                                                  | 3    | 18   | 108   | 370   | 950   | 1807   | 2825   | 3770   | 4433  | 4759  | 4837  | 4847 |
| 50                                                  | 0    | 6    | 53    | 212   | 641   | 1349   | 2212   | 3002   | 3517  | 3726  | 3762  | 3764 |
| 55                                                  | 0    | 1    | 23    | 107   | 399   | 957    | 1666   | 2301   | 2674  | 2793  | 2806  | 2807 |
| 60                                                  | 0    | 0    | 8     | 45    | 222   | 632    | 1185   | 1666   | 1910  | 1968  | 1971  | 1971 |
| Growing Degree Units for Corn (Monthly Accumulated) |      |      |       |       |       |        |        |        |       |       |       |      |
| 50/86                                               | 11   | 39   | 149   | 382   | 834   | 1507   | 2302   | 3041   | 3561  | 3846  | 3937  | 3957 |

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