

Summary of Monthly Normals  
1991-2020

Generated on 05/22/2024

Current Location: Elev: 905 ft. Lat: 38.6133° N Lon: 95.2808° W  
Station: OTTAWA, KS US USC00146128

| 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               | 39.9      | 18.2      | 29.0 | 4.4                   | 3.6                   | 3.7                   | 0.4                 | 0.2   | 0.1   | 0.0   | 0.0   | 0.0   | 804.6               | 866.5 | 959.3 | 1114.3 | 0.0                 | 0.0       | 8.3       | 8.3       | 27.3      | 1.4      |
| 02               | 45.5      | 22.0      | 33.8 | 5.9                   | 4.7                   | 5.1                   | 2.9                 | 1.9   | 0.8   | 0.1   | 0.0   | 0.0   | 597.9               | 652.9 | 735.8 | 875.1  | 0.0                 | 0.0       | 11.9      | 5.1       | 22.3      | 0.5      |
| 03               | 56.0      | 31.5      | 43.7 | 5.1                   | 4.5                   | 4.6                   | 26.4                | 17.6  | 9.0   | 1.8   | 0.1   | 0.1   | 375.2               | 428.4 | 512.8 | 660.6  | 0.0                 | 0.0       | 22.1      | 1.2       | 14.3      | 0.2      |
| 04               | 65.9      | 41.6      | 53.7 | 3.7                   | 3.3                   | 3.4                   | 97.5                | 71.7  | 42.7  | 13.1  | 2.2   | 0.7   | 135.0               | 169.2 | 230.1 | 350.5  | 0.0                 | 0.1       | 27.8      | 0.0       | 4.2       | 0.0      |
| 05               | 75.2      | 53.3      | 64.3 | 3.5                   | 3.0                   | 3.0                   | 304.3               | 252.9 | 183.8 | 91.8  | 32.4  | 18.9  | 17.6                | 28.2  | 52.1  | 115.1  | 0.0                 | 1.3       | 30.8      | 0.0       | 0.1       | 0.0      |
| 06               | 84.4      | 63.2      | 73.8 | 2.6                   | 2.0                   | 2.1                   | 564.0               | 504.2 | 415.0 | 270.9 | 142.5 | 100.1 | 0.1                 | 0.3   | 1.1   | 7.0    | 0.2                 | 8.1       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 89.3      | 67.6      | 78.4 | 3.5                   | 2.5                   | 2.8                   | 726.9               | 664.9 | 571.8 | 417.3 | 267.4 | 210.7 | 0.0                 | 0.0   | 0.0   | 0.5    | 2.4                 | 17.1      | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 88.2      | 65.0      | 76.6 | 3.9                   | 2.8                   | 3.1                   | 669.5               | 607.5 | 514.7 | 361.5 | 220.8 | 170.3 | 0.0                 | 0.0   | 0.2   | 2.0    | 2.0                 | 15.1      | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 80.3      | 56.0      | 68.2 | 3.5                   | 3.2                   | 3.2                   | 400.2               | 344.4 | 265.9 | 152.7 | 72.1  | 49.1  | 5.8                 | 9.9   | 21.5  | 58.3   | 0.3                 | 4.6       | 30.0      | 0.0       | 0.0       | 0.0      |
| 10               | 68.7      | 43.8      | 56.3 | 3.6                   | 2.4                   | 2.7                   | 140.9               | 109.1 | 70.4  | 26.6  | 6.5   | 3.3   | 102.2               | 132.4 | 186.7 | 297.8  | 0.0                 | 0.3       | 29.4      | 0.0       | 3.2       | 0.0      |
| 11               | 54.8      | 31.7      | 43.2 | 5.3                   | 3.9                   | 4.4                   | 19.4                | 12.8  | 6.1   | 1.1   | 0.1   | 0.0   | 371.8               | 425.3 | 508.5 | 653.5  | 0.0                 | 0.0       | 21.0      | 0.8       | 14.5      | 0.0      |
| 12               | 43.4      | 22.4      | 32.9 | 4.3                   | 4.0                   | 3.9                   | 1.5                 | 0.9   | 0.3   | 0.0   | 0.0   | 0.0   | 686.5               | 747.9 | 840.2 | 995.0  | 0.0                 | 0.0       | 11.1      | 5.5       | 25.1      | 0.3      |
| Summary          | 66.0      | 43.0      | 54.5 | 4.1                   | 3.3                   | 3.5                   | 2954                | 2588  | 2081  | 1337  | 744   | 553   | 3097                | 3461  | 4048  | 5130   | 4.9                 | 46.6      | 284.4     | 20.9      | 111.0     | 2.4      |

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

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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                  | 1.22   | 6.5                 | 3.3     | 0.5     | 0.2     | 0.54                                                                                                                   | 1.03  | 1.72  |  |
| 02                  | 1.57   | 6.4                 | 3.3     | 0.8     | 0.2     | 0.65                                                                                                                   | 1.36  | 2.27  |  |
| 03                  | 2.29   | 8.1                 | 4.7     | 1.7     | 0.4     | 1.25                                                                                                                   | 2.09  | 2.94  |  |
| 04                  | 3.79   | 10.2                | 6.3     | 2.5     | 1.0     | 2.54                                                                                                                   | 3.73  | 4.39  |  |
| 05                  | 5.82   | 12.6                | 8.3     | 3.7     | 1.7     | 3.29                                                                                                                   | 5.34  | 7.10  |  |
| 06                  | 5.55   | 10.3                | 6.6     | 3.3     | 1.6     | 4.65                                                                                                                   | 5.64  | 7.12  |  |
| 07                  | 3.75   | 8.8                 | 5.6     | 2.6     | 1.0     | 1.65                                                                                                                   | 3.17  | 5.52  |  |
| 08                  | 4.63   | 9.3                 | 5.7     | 2.6     | 1.4     | 1.97                                                                                                                   | 3.72  | 5.91  |  |
| 09                  | 4.05   | 8.2                 | 5.6     | 2.7     | 1.3     | 2.19                                                                                                                   | 3.88  | 5.26  |  |
| 10                  | 3.08   | 8.7                 | 5.3     | 1.8     | 0.8     | 1.53                                                                                                                   | 2.40  | 4.47  |  |
| 11                  | 2.39   | 6.5                 | 3.7     | 1.6     | 0.6     | 1.06                                                                                                                   | 1.60  | 3.08  |  |
| 12                  | 1.71   | 6.2                 | 3.3     | 1.2     | 0.3     | 0.89                                                                                                                   | 1.50  | 2.61  |  |
| Summary             | 39.85  | 101.8               | 61.7    | 25.0    | 10.5    | 22.21                                                                                                                  | 35.46 | 52.39 |  |

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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         | 3.20             | 2.8                    | 1.3 | 0.4 | 0.1  | 0.0   |                          |     |     |     | 1.00                                                                                              | 2.50 | 5.10 |
| 02         | 2.10             | 1.7                    | 1.1 | 0.4 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 1.00 | 3.00 |
| 03         | 0.70             | 0.6                    | 0.2 | 0.1 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.60 |
| 04         | 0.00             | 0.0                    | 0.0 | 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         | 0.10             | 0.1                    | 0.0 | 0.0 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00 |
| 11         | 0.50             | 0.5                    | 0.2 | 0.1 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.40 |
| 12         | 2.60             | 1.9                    | 1.1 | 0.3 | 0.2  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.30 | 5.70 |
| Summary    | 9.2              | 7.6                    | 3.9 | 1.3 | 0.3  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 1.0                                                                                               | 3.8  | 14.8 |

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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                                      | 21.5 | 57.0 | 203.6 | 425.3 | 751.9 | 1013.8 | 1191.8 | 1134.4 | 844.4 | 510.1 | 179.7 | 39.2 |
| 45                                      | 6.6  | 25.1 | 118.1 | 295.6 | 597.7 | 863.8  | 1036.8 | 979.4  | 694.5 | 367.7 | 99.3  | 14.5 |
| 50                                      | 1.5  | 8.6  | 60.7  | 183.5 | 446.7 | 713.8  | 881.8  | 824.4  | 545.6 | 242.5 | 48.8  | 4.9  |
| 55                                      | 0.4  | 2.9  | 26.4  | 97.5  | 304.3 | 564.0  | 726.9  | 669.5  | 400.2 | 140.9 | 19.4  | 1.5  |
| 60                                      | 0.1  | 0.8  | 9.0   | 42.7  | 183.8 | 415.0  | 571.8  | 514.7  | 265.9 | 70.4  | 6.1   | 0.3  |
| Growing Degree Units for Corn (Monthly) |      |      |       |       |       |        |        |        |       |       |       |      |
| 50/86                                   | 24.4 | 52.7 | 145.1 | 264.6 | 470.9 | 689.6  | 812.4  | 760.0  | 548.6 | 322.4 | 119.5 | 33.7 |

| Growing Degree Units (Accumulated Monthly)          |    |    |     |     |      |      |      |      |      |      |      |      |
|-----------------------------------------------------|----|----|-----|-----|------|------|------|------|------|------|------|------|
| 40                                                  | 22 | 78 | 282 | 707 | 1459 | 2473 | 3665 | 4799 | 5644 | 6154 | 6334 | 6373 |
| 45                                                  | 7  | 32 | 150 | 445 | 1043 | 1907 | 2944 | 3923 | 4618 | 4985 | 5085 | 5099 |
| 50                                                  | 2  | 10 | 71  | 254 | 701  | 1415 | 2297 | 3121 | 3667 | 3909 | 3958 | 3963 |
| 55                                                  | 0  | 3  | 30  | 127 | 432  | 996  | 1722 | 2392 | 2792 | 2933 | 2952 | 2954 |
| 60                                                  | 0  | 1  | 10  | 53  | 236  | 651  | 1223 | 1738 | 2004 | 2074 | 2080 | 2081 |
| Growing Degree Units for Corn (Monthly Accumulated) |    |    |     |     |      |      |      |      |      |      |      |      |
| 50/86                                               | 24 | 77 | 222 | 487 | 958  | 1647 | 2460 | 3220 | 3768 | 4091 | 4210 | 4244 |

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.