

Summary of Monthly Normals  
1991-2020

Generated on 04/29/2024

Current Location: Elev: 1178 ft. Lat: 39.8383° N Lon: 96.6364° W

Station: **MARYSVILLE, KS US USC00145063**

| 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               | 38.2      | 15.3      | 26.7 | 5.2                   | 3.9                   | 4.2                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 875.4               | 937.5 | 1030.5 | 1185.5 | 0.0                 | 0.0       | 6.1       | 11.1      | 29.7      | 3.8      |  |
| 02               | 43.3      | 19.3      | 31.3 | 6.7                   | 5.1                   | 5.6                   | 2.6                 | 1.5   | 0.6   | 0.1   | 0.0   | 0.0   | 666.0               | 721.0 | 804.0  | 943.6  | 0.0                 | 0.0       | 9.3       | 7.3       | 25.1      | 1.7      |  |
| 03               | 55.3      | 29.6      | 42.5 | 5.6                   | 4.4                   | 4.7                   | 28.5                | 20.3  | 11.0  | 2.9   | 0.5   | 0.1   | 417.6               | 471.5 | 555.1  | 702.1  | 0.0                 | 0.0       | 19.1      | 1.9       | 19.2      | 0.4      |  |
| 04               | 65.7      | 40.0      | 52.8 | 4.1                   | 3.8                   | 3.8                   | 96.7                | 73.0  | 45.5  | 16.4  | 3.6   | 1.7   | 161.2               | 197.5 | 260.0  | 380.9  | 0.0                 | 0.3       | 26.1      | 0.1       | 6.4       | 0.0      |  |
| 05               | 75.7      | 51.6      | 63.7 | 4.0                   | 2.9                   | 3.2                   | 294.8               | 246.0 | 181.4 | 95.1  | 38.3  | 24.0  | 26.7                | 39.9  | 68.3   | 136.9  | 0.0                 | 1.9       | 30.8      | 0.0       | 0.6       | 0.0      |  |
| 06               | 85.6      | 62.1      | 73.9 | 3.1                   | 2.6                   | 2.7                   | 566.0               | 506.6 | 418.3 | 278.2 | 156.1 | 115.4 | 0.7                 | 1.3   | 2.9    | 12.8   | 0.5                 | 8.8       | 30.0      | 0.0       | 0.0       | 0.0      |  |
| 07               | 90.2      | 66.8      | 78.5 | 3.3                   | 2.6                   | 2.7                   | 728.3               | 666.3 | 573.3 | 419.2 | 271.9 | 217.4 | 0.0                 | 0.0   | 0.0    | 0.9    | 2.6                 | 15.8      | 31.0      | 0.0       | 0.0       | 0.0      |  |
| 08               | 88.6      | 64.1      | 76.3 | 3.2                   | 2.8                   | 2.8                   | 661.7               | 599.8 | 507.2 | 355.3 | 214.8 | 165.7 | 0.0                 | 0.1   | 0.5    | 3.6    | 1.6                 | 12.6      | 31.0      | 0.0       | 0.0       | 0.0      |  |
| 09               | 81.2      | 54.5      | 67.9 | 3.7                   | 3.7                   | 3.5                   | 395.8               | 341.8 | 266.3 | 158.9 | 80.0  | 57.6  | 10.4                | 16.4  | 30.9   | 73.4   | 0.3                 | 5.4       | 29.9      | 0.0       | 0.3       | 0.0      |  |
| 10               | 69.2      | 41.4      | 55.3 | 3.6                   | 2.6                   | 2.8                   | 132.0               | 102.7 | 66.6  | 27.0  | 8.3   | 4.7   | 122.8               | 155.4 | 212.4  | 327.7  | 0.0                 | 0.9       | 28.7      | 0.1       | 6.3       | 0.0      |  |
| 11               | 54.2      | 29.5      | 41.9 | 6.2                   | 3.9                   | 4.7                   | 17.6                | 11.6  | 6.1   | 1.8   | 0.1   | 0.0   | 412.1               | 466.1 | 550.5  | 696.3  | 0.0                 | 0.0       | 18.5      | 2.0       | 19.0      | 0.1      |  |
| 12               | 42.2      | 19.5      | 30.9 | 4.8                   | 4.5                   | 4.4                   | 0.6                 | 0.3   | 0.2   | 0.0   | 0.0   | 0.0   | 749.0               | 810.8 | 903.6  | 1058.5 | 0.0                 | 0.0       | 8.9       | 8.1       | 28.6      | 1.5      |  |
| Summary          | 65.8      | 41.1      | 53.5 | 4.5                   | 3.6                   | 3.8                   | 2925                | 2570  | 2076  | 1355  | 774   | 587   | 3442                | 3818  | 4419   | 5522   | 5.0                 | 45.7      | 269.4     | 30.6      | 135.2     | 7.5      |  |

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                  | 0.83   | 4.7                 | 2.3     | 0.3     | 0.0     | 0.41                                                                                                                   | 0.77  | 1.19  |  |
| 02                  | 1.07   | 5.2                 | 2.6     | 0.7     | 0.2     | 0.39                                                                                                                   | 0.91  | 1.42  |  |
| 03                  | 2.11   | 6.8                 | 3.9     | 1.4     | 0.4     | 0.98                                                                                                                   | 1.87  | 2.84  |  |
| 04                  | 3.09   | 9.3                 | 5.8     | 2.1     | 0.8     | 2.19                                                                                                                   | 2.90  | 3.87  |  |
| 05                  | 4.86   | 11.3                | 7.2     | 3.3     | 1.3     | 2.34                                                                                                                   | 4.89  | 6.39  |  |
| 06                  | 4.91   | 11.1                | 6.4     | 3.0     | 1.5     | 3.67                                                                                                                   | 4.88  | 6.17  |  |
| 07                  | 4.65   | 10.5                | 5.9     | 2.9     | 1.4     | 1.88                                                                                                                   | 3.30  | 5.69  |  |
| 08                  | 3.61   | 10.1                | 5.4     | 2.5     | 1.2     | 2.43                                                                                                                   | 3.27  | 4.53  |  |
| 09                  | 3.28   | 8.9                 | 5.0     | 2.1     | 0.9     | 1.74                                                                                                                   | 2.61  | 4.51  |  |
| 10                  | 2.52   | 7.7                 | 4.5     | 1.9     | 0.7     | 1.56                                                                                                                   | 2.24  | 3.42  |  |
| 11                  | 1.50   | 5.8                 | 3.2     | 0.9     | 0.3     | 0.47                                                                                                                   | 1.07  | 2.70  |  |
| 12                  | 1.17   | 5.0                 | 2.6     | 0.7     | 0.2     | 0.37                                                                                                                   | 0.81  | 1.47  |  |
| Summary             | 33.60  | 96.4                | 54.8    | 21.8    | 8.9     | 18.43                                                                                                                  | 29.52 | 44.20 |  |

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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         | 4.90             | 2.1                    | 1.3 | 0.7 | 0.1  | 0.0   | 4.4                      | 2.3 | 1.1 | 0.1 | 1.80                                                                                              | 3.80 | 8.60 |
| 02         | 4.30             | 2.1                    | 1.1 | 0.4 | 0.2  | 0.0   | 3.0                      | 1.4 | 0.7 | 0.0 | 0.30                                                                                              | 3.40 | 7.70 |
| 03         | 1.50             | 0.9                    | 0.5 | 0.1 | 0.0  | 0.0   | 0.6                      | 0.1 | 0.0 | 0.0 | 0.00                                                                                              | 1.30 | 2.70 |
| 04         | 0.70             | 0.2                    | 0.2 | 0.1 | 0.0  | 0.0   | 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   | 0.0                      | 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         | 0.10             | 0.2                    | 0.0 | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 11         | 1.00             | 0.6                    | 0.3 | 0.1 | 0.1  | 0.0   | 0.3                      | 0.1 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.30 |
| 12         | 3.30             | 1.3                    | 0.7 | 0.2 | 0.1  | 0.0   | 3.6                      | 1.7 | 0.8 | 0.1 | 0.10                                                                                              | 0.90 | 2.70 |
| Summary    | 15.8             | 7.4                    | 4.1 | 1.6 | 0.5  | 0.0   | 12.0                     | 5.6 | 2.6 | 0.2 | 2.2                                                                                               | 9.4  | 22.0 |

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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                                      | 14.9 | 43.4 | 187.4 | 402.3 | 733.3 | 1015.3 | 1193.3 | 1126.6 | 835.4 | 484.7 | 159.1 | 29.7 |
| 45                                      | 3.5  | 19.6 | 110.3 | 277.6 | 579.3 | 865.3  | 1038.3 | 971.6  | 685.9 | 347.1 | 88.1  | 9.4  |
| 50                                      | 0.4  | 7.8  | 58.3  | 173.9 | 430.2 | 715.3  | 883.3  | 816.6  | 538.2 | 227.1 | 43.2  | 2.2  |
| 55                                      | 0.0  | 2.6  | 28.5  | 96.7  | 294.8 | 566.0  | 728.3  | 661.7  | 395.8 | 132.0 | 17.6  | 0.6  |
| 60                                      | 0.0  | 0.6  | 11.0  | 45.5  | 181.4 | 418.3  | 573.3  | 507.2  | 266.3 | 66.6  | 6.1   | 0.2  |
| Growing Degree Units for Corn (Monthly) |      |      |       |       |       |        |        |        |       |       |       |      |
| 50/86                                   | 21.8 | 45.8 | 142.0 | 256.7 | 458.2 | 675.7  | 799.3  | 747.8  | 539.5 | 319.2 | 120.0 | 32.1 |

| Growing Degree Units (Accumulated Monthly)          |    |    |     |     |      |      |      |      |      |      |      |      |
|-----------------------------------------------------|----|----|-----|-----|------|------|------|------|------|------|------|------|
| 40                                                  | 15 | 58 | 246 | 648 | 1381 | 2397 | 3590 | 4716 | 5552 | 6037 | 6196 | 6225 |
| 45                                                  | 4  | 23 | 133 | 411 | 990  | 1856 | 2894 | 3865 | 4551 | 4898 | 4987 | 4996 |
| 50                                                  | 0  | 8  | 66  | 240 | 671  | 1386 | 2269 | 3086 | 3624 | 3851 | 3894 | 3896 |
| 55                                                  | 0  | 3  | 31  | 128 | 423  | 989  | 1717 | 2379 | 2774 | 2906 | 2924 | 2925 |
| 60                                                  | 0  | 1  | 12  | 57  | 238  | 657  | 1230 | 1737 | 2004 | 2070 | 2076 | 2076 |
| Growing Degree Units for Corn (Monthly Accumulated) |    |    |     |     |      |      |      |      |      |      |      |      |
| 50/86                                               | 22 | 68 | 210 | 466 | 924  | 1600 | 2400 | 3147 | 3687 | 4006 | 4126 | 4158 |

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.