

**Summary of Monthly Normals**  
**1991-2020**  
 Generated on 09/24/2021

| 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               | 31.0      | 14.6      | 22.8 | 4.5                   | 5.7                   | 5.0                   | 0.4                 | 0.2   | 0.0   | 0.0   | 0.0  | 0.0  | 998.4               | 1060.2 | 1153.0 | 1308.0 | 0.0                 | 0.0       | 2.4       | 16.8      | 28.3      | 4.7      |
| 02               | 33.1      | 15.1      | 24.1 | 4.9                   | 6.0                   | 5.4                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 865.2               | 921.2  | 1005.1 | 1145.2 | 0.0                 | 0.0       | 2.7       | 13.0      | 25.8      | 3.4      |
| 03               | 40.8      | 21.8      | 31.3 | 5.2                   | 4.6                   | 4.8                   | 3.1                 | 2.2   | 1.0   | 0.1   | 0.0  | 0.0  | 737.7               | 798.8  | 890.6  | 1044.8 | 0.0                 | 0.0       | 7.2       | 7.5       | 25.1      | 1.1      |
| 04               | 54.5      | 32.9      | 43.7 | 3.5                   | 2.6                   | 2.8                   | 24.9                | 17.7  | 9.8   | 3.1   | 0.6  | 0.3  | 363.9               | 416.7  | 498.8  | 642.1  | 0.0                 | 0.0       | 19.4      | 0.5       | 14.2      | 0.0      |
| 05               | 67.3      | 44.0      | 55.6 | 3.7                   | 3.4                   | 3.4                   | 125.5               | 95.9  | 61.1  | 23.8  | 6.3  | 3.1  | 105.5               | 137.8  | 196.1  | 313.7  | 0.0                 | 0.2       | 29.7      | 0.0       | 2.8       | 0.0      |
| 06               | 75.7      | 53.4      | 64.6 | 2.2                   | 1.8                   | 1.7                   | 296.4               | 244.0 | 173.5 | 81.0  | 27.1 | 15.2 | 10.0                | 17.6   | 37.1   | 94.6   | 0.0                 | 1.0       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 79.9      | 57.9      | 68.9 | 2.8                   | 2.2                   | 2.4                   | 431.0               | 369.5 | 280.5 | 148.2 | 56.3 | 33.5 | 0.1                 | 0.7    | 4.6    | 27.4   | 0.0                 | 2.3       | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 78.5      | 56.3      | 67.4 | 2.3                   | 2.1                   | 2.1                   | 385.1               | 324.7 | 237.9 | 116.4 | 38.2 | 20.7 | 0.8                 | 2.4    | 8.6    | 42.1   | 0.0                 | 1.2       | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 71.6      | 48.8      | 60.2 | 2.4                   | 2.5                   | 2.2                   | 192.9               | 151.3 | 99.1  | 39.7  | 11.1 | 5.6  | 37.0                | 55.4   | 93.2   | 183.7  | 0.0                 | 0.4       | 29.9      | 0.0       | 0.6       | 0.0      |
| 10               | 59.0      | 38.9      | 49.0 | 2.9                   | 3.0                   | 2.7                   | 40.8                | 27.1  | 13.6  | 3.3   | 0.4  | 0.1  | 228.3               | 276.6  | 356.2  | 500.8  | 0.0                 | 0.0       | 25.3      | 0.0       | 7.1       | 0.0      |
| 11               | 46.8      | 30.4      | 38.6 | 4.4                   | 2.7                   | 3.5                   | 4.6                 | 2.4   | 0.7   | 0.0   | 0.0  | 0.0  | 496.5               | 554.4  | 642.7  | 792.0  | 0.0                 | 0.0       | 11.9      | 2.0       | 17.9      | 0.1      |
| 12               | 36.2      | 22.0      | 29.1 | 4.4                   | 4.2                   | 4.2                   | 0.4                 | 0.2   | 0.0   | 0.0   | 0.0  | 0.0  | 803.2               | 865.1  | 957.9  | 1112.9 | 0.0                 | 0.0       | 3.6       | 11.1      | 26.3      | 0.7      |
| Summary          | 56.2      | 36.3      | 46.3 | 3.6                   | 3.4                   | 3.4                   | 1505                | 1235  | 877   | 416   | 140  | 78   | 4647                | 5107   | 5844   | 7207   | 0.0                 | 5.1       | 224.1     | 50.9      | 148.1     | 10.0     |

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                  | 2.24   | 16.1                | 6.1     | 0.8     | 0.2     | 1.64   | 2.34  | 2.76  |
| 02                  | 1.98   | 13.1                | 5.3     | 0.9     | 0.1     | 1.32   | 1.88  | 2.44  |
| 03                  | 2.78   | 14.0                | 6.5     | 1.6     | 0.4     | 2.12   | 2.63  | 3.39  |
| 04                  | 3.40   | 13.6                | 7.9     | 2.0     | 0.6     | 2.32   | 3.17  | 4.08  |
| 05                  | 3.20   | 14.6                | 8.0     | 1.8     | 0.4     | 2.12   | 2.87  | 4.34  |
| 06                  | 3.98   | 13.8                | 8.3     | 2.5     | 0.9     | 2.66   | 4.02  | 5.05  |
| 07                  | 3.90   | 12.7                | 7.7     | 2.8     | 0.9     | 2.61   | 3.41  | 4.89  |
| 08                  | 3.77   | 11.7                | 7.1     | 2.7     | 0.9     | 2.50   | 3.69  | 4.79  |
| 09                  | 3.83   | 11.5                | 7.0     | 2.3     | 1.0     | 2.33   | 3.52  | 4.93  |
| 10                  | 3.70   | 15.2                | 8.2     | 2.2     | 0.6     | 2.37   | 3.31  | 4.26  |
| 11                  | 2.94   | 14.1                | 6.1     | 1.8     | 0.4     | 2.11   | 2.66  | 3.77  |
| 12                  | 2.57   | 15.7                | 6.4     | 1.4     | 0.2     | 1.91   | 2.33  | 2.96  |
| Summary             | 38.29  | 166.1               | 84.6    | 22.8    | 6.6     | 26.01  | 35.83 | 47.66 |

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**Summary of Monthly Normals**  
**1991-2020**  
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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         | 16.6             | 12.3                   | 5.7  | 1.4 | 0.6  | 0.1   | 20.6                     | 14.6 | 9.6  | 3.5  | 10.1  | 13.8 | 23.3 |
| 02         | 14.5             | 9.6                    | 4.6  | 1.3 | 0.5  | 0.1   | 19.6                     | 13.7 | 9.9  | 5.0  | 8.2   | 11.9 | 19.0 |
| 03         | 12.0             | 7.1                    | 3.6  | 1.3 | 0.7  | 0.1   | 13.0                     | 8.9  | 6.6  | 3.4  | 5.5   | 9.6  | 18.1 |
| 04         | 2.8              | 1.7                    | 0.8  | 0.3 | 0.2  | 0.0   | 1.4                      | 0.8  | 0.4  | 0.0  | 0.0   | 1.2  | 4.9  |
| 05         | 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  |
| 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         | 0.2              | 0.1                    | 0.1  | 0.0 | 0.0  | 0.0   | 0.1                      | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 11         | 4.6              | 3.4                    | 1.3  | 0.4 | 0.2  | 0.0   | 4.0                      | 2.1  | 1.2  | 0.1  | 0.4   | 2.3  | 7.6  |
| 12         | 12.2             | 9.1                    | 3.8  | 1.2 | 0.4  | 0.1   | 14.0                     | 7.2  | 4.2  | 0.3  | 6.3   | 12.8 | 16.4 |
| Summary    | 62.9             | 43.3                   | 19.9 | 5.9 | 2.6  | 0.4   | 72.7                     | 47.3 | 31.9 | 12.3 | 30.5  | 51.6 | 89.3 |

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## Summary of Monthly Normals 1991-2020

Generated on 09/24/2021

| <b>Growing Degree Units (Monthly)</b>          |            |            |            |            |            |            |            |            |            |            |            |            |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Base</b>                                    | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |
| 40   | 10.3       | 8.1        | 43.9       | 181.6      | 487.5      | 736.4      | 895.8      | 849.3      | 606.2      | 294.9      | 94.8       | 19.5       |
| 45   | 4.0        | 2.2        | 19.6       | 103.5      | 343.4      | 586.7      | 740.8      | 694.3      | 458.0      | 178.2      | 45.7       | 6.0        |
| 50   | 1.3        | 0.3        | 7.7        | 52.4       | 220.5      | 438.4      | 585.8      | 539.3      | 316.9      | 94.5       | 17.5       | 1.6        |
| 55   | 0.4        | 0.0        | 3.1        | 24.9       | 125.5      | 296.4      | 431.0      | 385.1      | 192.9      | 40.8       | 4.6        | 0.4        |
| 60   | 0.0        | 0.0        | 1.0        | 9.8        | 61.1       | 173.5      | 280.5      | 237.9      | 99.1       | 13.6       | 0.7        | 0.0        |
| <b>Growing Degree Units for Corn (Monthly)</b> |            |            |            |            |            |            |            |            |            |            |            |            |
| 50/86  | 5.5        | 6.2        | 30.9       | 115.6      | 293.3      | 459.5      | 584.4      | 545.7      | 366.9      | 163.4      | 49.2       | 8.9        |

| <b>Growing Degree Units (Accumulated Monthly)</b>          |            |            |            |            |            |            |            |            |            |            |            |            |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Base</b>  | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |
| 40   | 10         | 18         | 62         | 244        | 731        | 1468       | 2364       | 3213       | 3819       | 4114       | 4209       | 4228       |
| 45   | 4          | 6          | 26         | 129        | 473        | 1059       | 1800       | 2494       | 2952       | 3131       | 3176       | 3182       |
| 50   | 1          | 2          | 9          | 62         | 282        | 721        | 1306       | 1846       | 2163       | 2257       | 2275       | 2276       |
| 55   | 0          | 0          | 4          | 28         | 154        | 450        | 881        | 1266       | 1459       | 1500       | 1505       | 1505       |
| 60   | 0          | 0          | 1          | 11         | 72         | 245        | 526        | 764        | 863        | 876        | 877        | 877        |
| <b>Growing Degree Units for Corn (Monthly Accumulated)</b> |            |            |            |            |            |            |            |            |            |            |            |            |
| 50/86  | 6          | 12         | 43         | 158        | 452        | 911        | 1495       | 2041       | 2408       | 2571       | 2621       | 2630       |

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

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